



Daman provides outstanding technological and service leadership beyond customer's expectations so as to promote their interest, thereby ensuring continuous opportunities for Daman employees.

This philosophy statement drives the organization. As a result, Daman has developed a solid reputation as one of the best suppliers customers have. Each Daman team member is driven to provide long-term, reliable service that exceeds customer expectations. Daman offers a complete line of hydraulic valve manifold products comprised of two basic groups; Custom Engineered Products and Standard Products. All components are manufactured to tolerances that meet or exceed the National Fluid Power Association's (NFPA) as well as the International Standards Organization's (ISO) specifications. Daman has created a streamlined system for estimating, engineering, and manufacturing Custom Engineered Products from as little information as a hydraulic schematic and component bill of materials. Daman has also developed the most comprehensive catalog of Standard Manifold Products in the world. Our product lines provide every customer with over one million choices to refine and enhance their hydraulic system, ranging from ISO 02 valve patterns through ISO 10.



Learn more about Daman's Product Innovations.



Daman's New Product Information Series is produced to help users understand individual product and process

innovations, and product service issues about the Hydraulic Manifold Industry, Daman customer benefit programs, and specific product applications and technologies. The series is available on the web site: www.damanifolds.com

Daman's Newsletter is mailed quarterly. Each issue of "Hydraulic Manifold News" features information-based articles discussing industry trends, Daman



news, customer service innovations and engineering solutions. The series is available on the web site: www.damanifolds.com

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The Custom Manifold Concept.

Custom hydraulic manifolds are usually created because there is a new requirement or set of specifications that cannot be satisfied by a Standard Manifold design.

In many cases these manifolds begin life as freehand schematics on an engineer's pad, but in every instance, the complexities of efficient and cost-effective Custom Engineered Manifolds must eventually be put in place by an experienced, qualified team.

Daman employees combine 122 years of experience to cover ALL the details.

Daman's Custom Manifold Group has over 122 years of combined experience with Custom Manifold circuit diagrams, cost quotations, manifold design, technical support, and trouble shooting. Customers can provide a freehand schematic and rest assured that Daman Custom Manifold Group will utilize their expertise and

experience to cover all of the details, from your freehand schematic to manifold technical support after the sales, and absolutely every detail in between.

The Daman Difference.

Most manufacturers today have the latest tools and technology, but few combine today's tooling and technology advances with creativity, expertise, ethics, and integrity.

Each Daman Design Team member has a proven track record of taking a rough concept and refining, communicating, and resolving critical details that distributors and end users typically worry about. Combine this with Daman Products' advanced manufacturing and marketing principles, and the difference is clear. Daman Products employs a level of expertise and partnership philosophy that can help you win more work and build better relationships than any other manufacturer you have ever dealt with. Demand Daman and experience the difference.



An unmatched combination of machinery, experience and dedication.

Daman's commitment to excellence in manufacturing permeates the entire organization, from the training and dedication of every member of each production team, to the major corporate investment in technology and equipment. The testimony to the success of this effort lies in the extremely high delivery accuracy and the remarkably high quality track record that Daman distributors enjoy.



800 pound, integrated circuit manifold with DIN Cartridge logic for counterbalance and 1000 GPM regen capabilities.

Custom manifold quality is the standard product at Daman. The commitment to quality starts with our own operation by delivering high-caliber products. Daman continues to train and seek out the most committed people to expand on leading-edge technology, processes and systems.



Flexibility to lot sizes of one piece to thousands of pieces. Simple circuit blocks to complex integrated circuits.

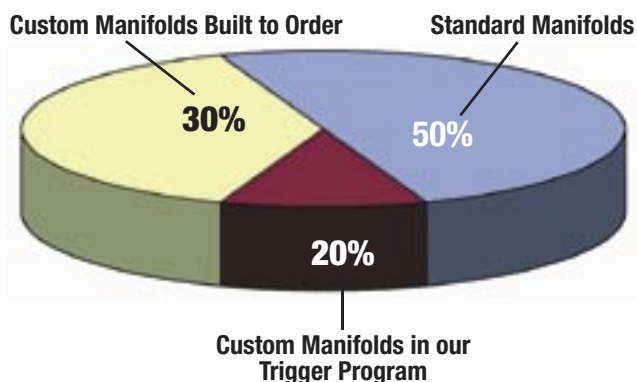
RFQ Details – Required.

- Hydraulic Circuit Diagram.
- BOM list of valve part numbers used.
- Port sizes.
- Port type (SAE, NPTF, Flange, Metric, etc.).
- Material type (Aluminum, Ductile Iron, etc.).

RFQ Details – Optional.

- Specific layout requirements (Valve or port locations, etc.).
- Surface coating requirements.
- Anticipated annual usage.

Daman's Product Mix

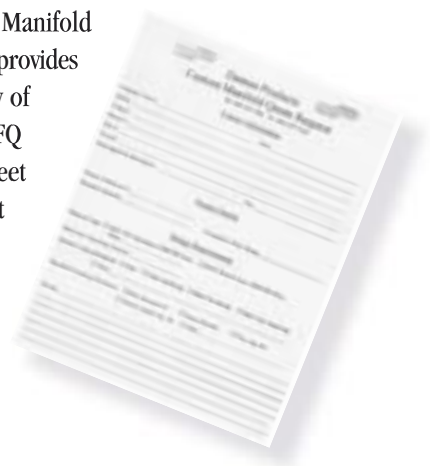


Capability Highlights.

- Daman has manufactured Custom Manifolds since 1976.
- 50% of Daman's capacity is devoted to Custom Manifolds.
- Custom Manifold quotations processed in 24 hours or less.
- More than 100 Custom Manifold quotations processed every week.
- 31.5% of Custom Manifold quotations are converted to orders.
- 99.51% manufacturing accuracy rating.
- 99.33% design accuracy rating.
- 97.5% on-time delivery rating.
- Full-time design/support staff with over 122 years combined experience.
- State-of-the-art design capabilities using manifold-specific software.
- World-class, Cellular Manufacturing utilizing Lean processes and principles.
- 10 CNC Machining Centers.
- Inventory of over 700 cartridge cavity tools for all major valve manufacturers.

Visit Daman on the Web for faster service.

Daman Products Custom Manifold Quote Request worksheet provides customers with a fast way of gathering the required RFQ information. The worksheet is available in PDF format on the Daman Web site: www.damanifolds.com.



Daman Products Company, Inc.

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Hydraulic Valve Manifolds Better System Design Begins with a Manifold.

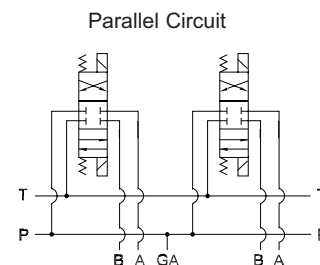
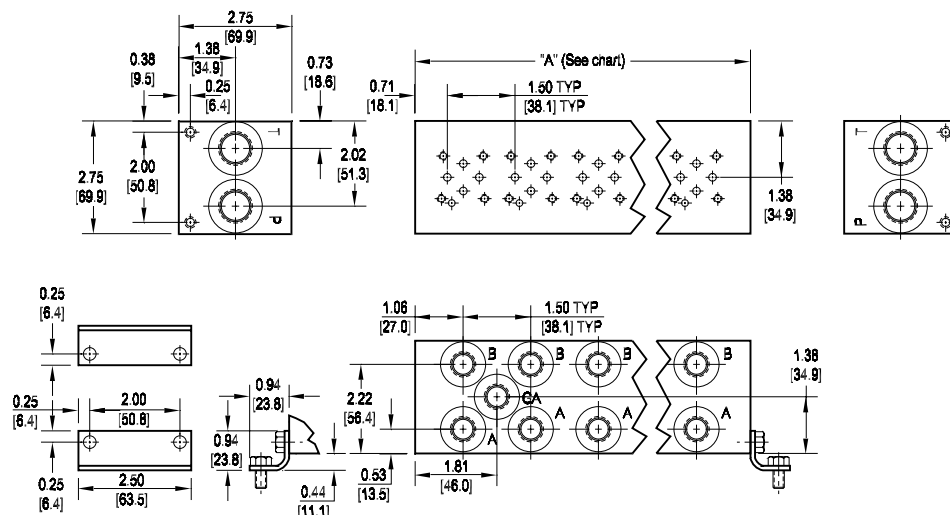
STANDARD MANIFOLDS

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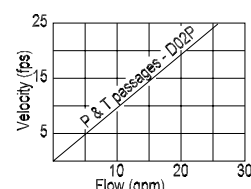
Subplate Mtd. Valve Cross Reference

Daman / NFPA pattern no.	ISO no.	Bosch	Continental	Denison	Nachi	Parker	Rexroth	Rivett	Vickers
D02	4401-02-01	--	--	--	--	--	--	--	DG4V-2
D03	4401-03-02	FD4-**HS-*01	V*D03M E*03M V*5M	A-3D01	SA-G01 SS-G01 DMA-G01	D1VW	WE6	65**-01	(K)DG4V-3
D05	4401-05-04	FD4-D*KS-*02	ED05M V*12M	A-3D02	SS-G03 DMA-G03	D3W	WE10	65**-02	DG4S*-01 DG4V-4 (K)DG4V-5
D05 Alt. A (D05HE)	4401-05-05	--	--	--	--	--	WEH10	--	(K)DG3V-5 (K)DG5V-5
D05 Alt. B (D05H)	--	FD4-**HS-*02	--	--	--	D31W	--	66**-D05H	DG5S4-02
D06	--	FD4-**HS-*04	--	--	--	--	--	--	DG4S4-02 (obsolete)
D07	4401-07-06	081WV16P1	--	A-3D03	DSS-G04	--	WEH16	--	DG5S4-04 (K)DG3V-7 (K)DG5V-7
D08	4401-08-07	FD4-**HS-*06	V*D08M ED08M *VS50M	A-3D06	DSS-G06 HF(S)-G06	D61VW	WEH22	6600-06	DG5S-(H)8 (K)DG3V-8 (K)DG5V-8
D10	4401-10-08	FD4-**HS-*10	VSD10M V*100M*	A-3D10-3S	DSS-G10 HF(S)-G10	D101VW	WEH32	--	DG5S4-10 (K)DG3V-10 (K)DG5V-10
2F06	6263-06-05	FF2-*HS*-02*	F12M	2F1C02	(C)FT-G02	FG3PKC	2FRM10	--	F(C)G-02
2F07	6263-07-09	FF2-*HS*-03*	--	2F1C03	FT-G03	--	2FRM16	--	F(C)G-03
P06	6264-06-07 5781-06-07	FD2-PTHS-*03 081DV10P1	--	R4*03	--	PR*3M	S*10P DZ*10**	P48**03	R(C)G-03
P08	6264-08-11 5781-08-10	FD2-PTHS-*06 081DV25P1	E*35M	R4*06	HT(S)-G06	PR*6M	S*20P DZ*20**	P48**06	R(C)G-06
P10	6264-10-15 5781-10-13	FD2-PTHS-*10	--	R4*10	HT(S)-G10	PR*10M	S*30P DZ*30**	P48**10	R(C)G-10
R06 (I06)	6264-06-09	081DV10P3	--	--	RI-03	--	DB**10	--	CG-03
R08	6264-08-13	FE1-PB**-S06* 081DV25P3	--	--	RI-06	--	DB**20	--	--
R10	6264-10-17	FE1-PB**-S10*	--	--	RI-10	--	DB**30	--	--
I08 (RV08)	--	FE1-PB**-I06*	--	--	--	R6V	--	--	CG-06
I10 (RV10)	--	FE1-PB**-I10*	--	--	--	R10M	--	--	CG-10

D02 Parallel Circuit Manifold



Flow Curve



Rated flow 14 gpm @ 15 fps

All mounting hardware is supplied.
See page 62 for itemized list.

No. of stations	* 01	02	03	04	05	06	07	08	09	10
"A" length inch [mm]	2.13 [54.0]	3.63 [92.1]	5.13 [130.2]	6.63 [168.3]	8.13 [206.4]	9.63 [244.5]	11.13 [282.6]	12.63 [320.7]	14.13 [358.8]	15.63 [396.9]
apx. weight alum lb [kg]	3 [1.5]	5 [2.5]	7 [3]	8 [4]	10 [4.5]	12 [5.5]	14 [6]	16 [7]	17 [8]	19 [9]
apx. weight iron lb [kg]	5 [2.5]	8.5 [4]	12 [5.5]	16 [7]	19 [9]	23 [10]	26 [12]	30 [14]	33 [15]	37 [17]

* Length of 01 station with relief cavity is 3.13 [79.4]. Gauge port not available on 01 station.

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.56 [14] DP	0.25-20 UNC x 0.38 [9.7] DP
B, M, T	M5 ISO 6H x 0.56 [14] DP	M6 ISO 6H x 0.38 [9.7] DP

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
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Material
A Aluminum - 6061-T6 3000 [†] psi • 20.7 MPa
D Ductile Iron - D4512 5000 [†] psi • 34.5 MPa

[†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern
D02 ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information

Circuit
P Parallel Circuit

No. of Stations
Aluminum
01...10 Available with spacing code 1
Ductile Iron
01...10 Available with spacing code 1

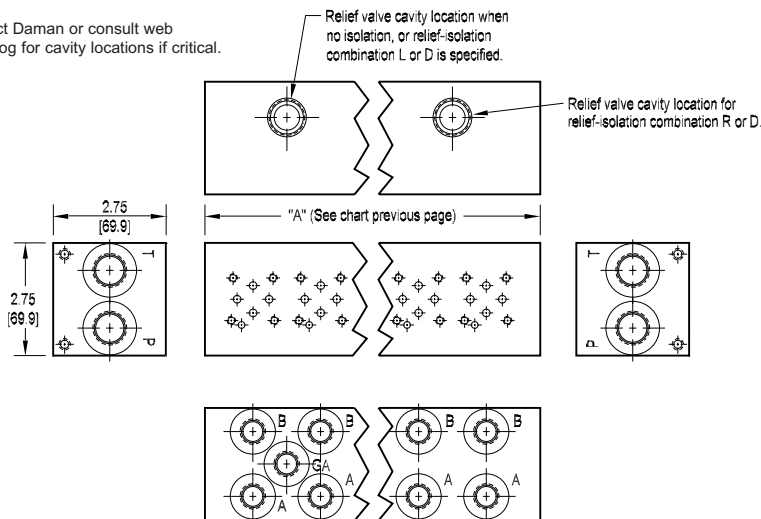
Valve Spacing
1 1.50 inch 38.1 mm

Port Threads	P & T	A & B	GA
P NPTF • ANSI B1.20.3	0.50	0.38	0.25
S SAE • ISO 11926	-8	-6	-6
B BSPP • ISO 1179	0.50	0.38	none
M ISO • ISO 6149	M18	M14	none
T BSPT • ISO 7	0.50	0.38	none

Options
See next page for available options and ordering codes.

Options - D02 Parallel Manifold

Contact Daman or consult web CADalog for cavity locations if critical.



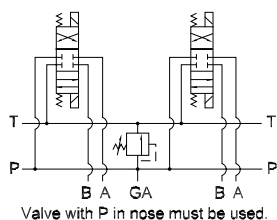
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-10
B	02 & 03	03-10
C	03 & 04	04-10
D	04 & 05	05-10
E	05 & 06	06-10
F	06 & 07	07-10
G	07 & 08	08-10
H	08 & 09	09-10
J	09 & 10	10

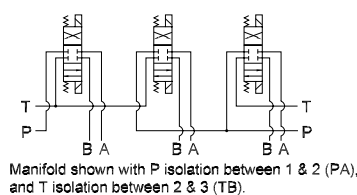
* Stations are numbered left to right.

Parallel Circuit with Relief



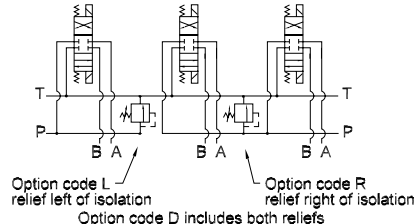
Valve with P in nose must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

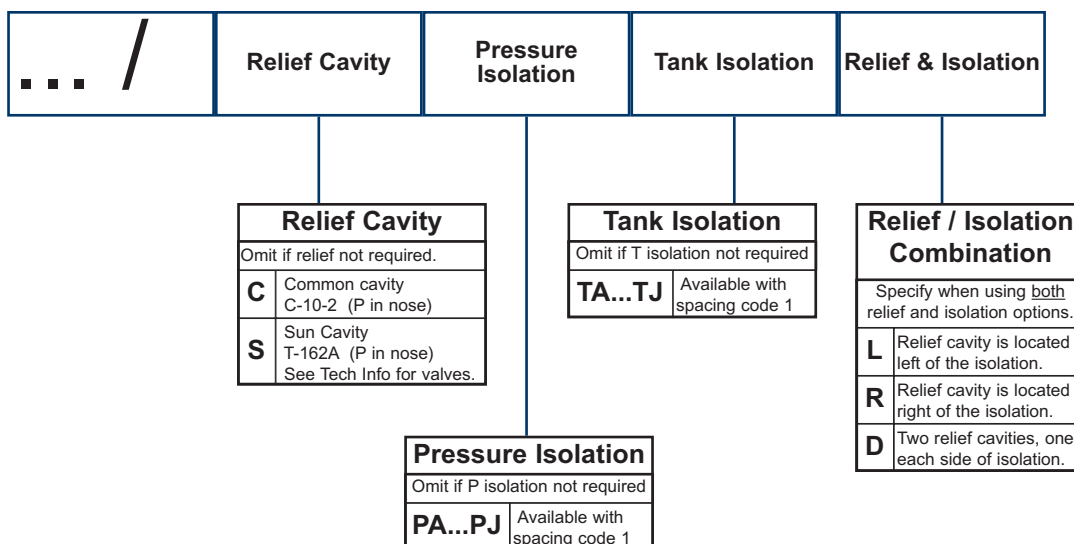
Relief / Isolation Combination



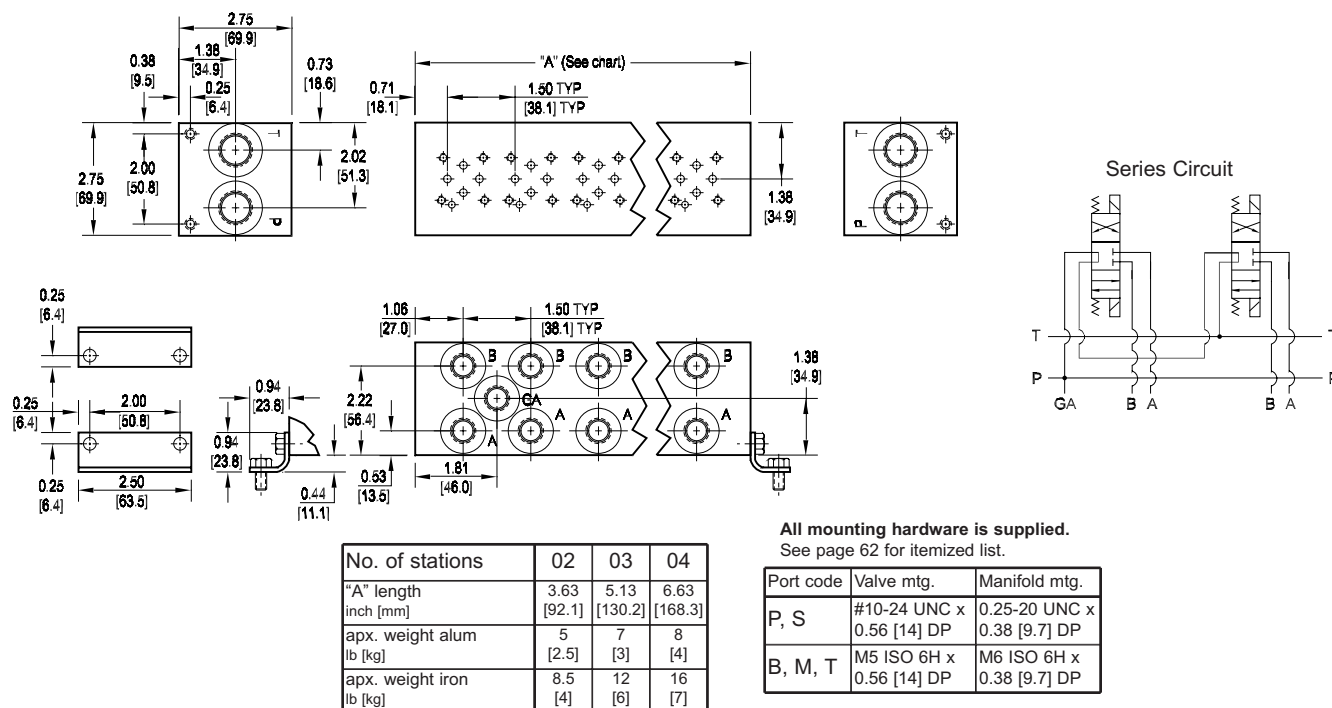
NOTES:

- 1) The GA port is not available on a (1) station manifold.
- 2) The GA port is not available when a pressure isolation is located between stations 1 & 2.
- 3) Some combinations of relief cavities and isolations are not possible. Consult factory to determine availability.

Ordering Information



D02 Series Circuit Manifold



Note: Both Daman's parallel and series D02 manifolds have pressure and tank lines that run the length of the manifold. Consequently it is commonly assumed that an error was made by marking a parallel manifold incorrectly as a series. Upon closer inspection it can be seen that the valve patterns are indeed connected in series.

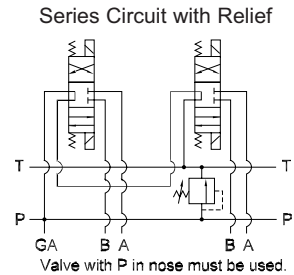
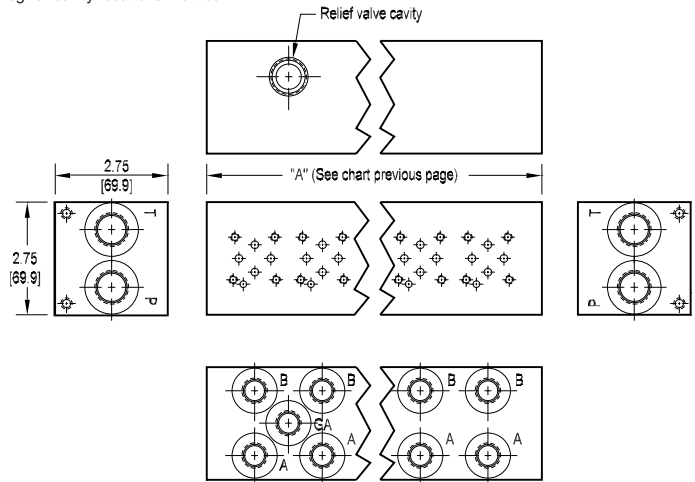
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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
Material A Aluminum - 6061-T6 3000 [†] psi • 20.7 MPa D Ductile Iron - D4512 5000 [†] psi • 34.5 MPa [†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern D02 ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information	Circuit S Series Circuit	No. of Stations Aluminum 02...04 Available with spacing code 1 Ductile Iron 02...04 Available with spacing code 1	Valve Spacing 1 1.50 inch 38.1 mm	Port Threads P NPTF • ANSI B1.20.3 S SAE • ISO 11926 B BSPP • ISO 1179 M ISO • ISO 6149 T BSPT • ISO 7	P & T A & B GA	Options See next page for available options and ordering codes.

Options - D02 Series Manifold

Contact Daman or consult web
CADalog for cavity locations if critical.

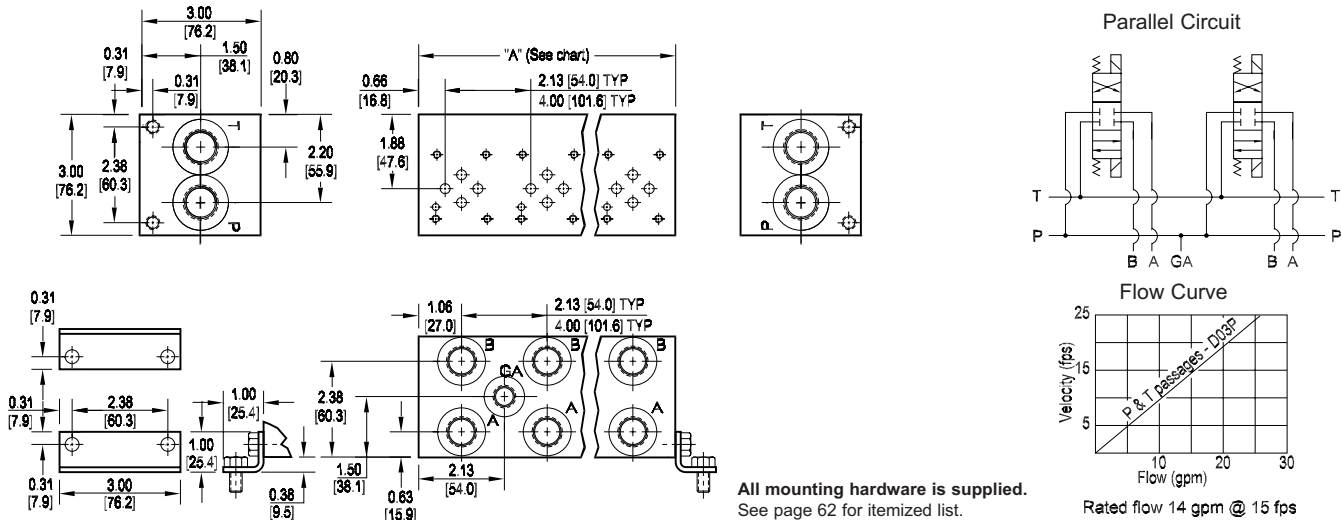


Ordering Information



Relief Cavity	
Omit if relief not required	
C	Common cavity C-10-2 (P in nose)
S	Sun Cavity T-162A (P in nose) See Tech Info for valves.

D03 Standard Flow Parallel Circuit Manifold



All mounting hardware is supplied.
See page 62 for itemized list.

No. of stations	* 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
"A" length (code 2 spa.) inch [mm]	2.13 [54.0]	4.25 [108.0]	6.38 [162.1]	8.50 [215.9]	10.63 [270.0]	12.75 [323.9]	14.88 [378.0]	17.00 [431.8]	19.13 [485.9]	21.25 [539.8]	23.38 [593.9]	25.50 [647.7]	27.63 [701.8]	29.75 [755.7]	31.88 [809.8]	34.00 [853.6]
apx. weight alum lb [kg]	3 [1]	4 [2]	6 [3]	8 [4]	9 [4]	11 [5]	12 [5]	14 [6]	16 [7]	18 [8]	20 [9]	21 [10]	22 [10]	24 [11]	26 [12]	27 [12]
apx. weight iron lb [kg]	5 [2]	9 [4]	13 [6]	17 [8]	21 [10]	26 [12]	30 [14]	34 [15]	38 [17]	42 [19]	47 [21]	51 [23]	55 [25]	59 [27]	63 [29]	68 [31]
"A" length (code 4 spa.) inch [mm]	--	6.13 [155.7]	10.13 [257.3]	14.13 [358.9]	18.13 [460.5]	22.13 [562.1]	26.13 [663.7]	30.13 [765.3]								
apx. weight alum lb [kg]	--	6 [3]	9 [4]	12 [5]	15 [7]	19 [9]	22 [10]	25 [11]								
apx. weight iron lb [kg]	--	12 [5]	20 [9]	28 [13]	36 [16]	45 [20]	53 [24]	57 [26]								

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.63 [16] DP	0.31-18 UNC x 0.44 [11.1] DP
B, M, T	M5 ISO 6H x 0.63 [16] DP	M8 ISO 6H x 0.44 [11.1] DP

* Length of 01 station with relief cavity is 3.00 [76.2]. Gauge port not available on 01 station.

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
----------	---------------	---------	-----------------	---------------	--------------	---	---------

Material	
A	Aluminum - 6061-T6 3000 [†] psi • 20.7 MPa
D	Ductile Iron - D4512 5000 [†] psi • 34.5 MPa

[†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern	
D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Circuit	
P	Parallel Circuit Standard Flow

No. of Stations	
Aluminum	
01...16	Available with spacing code 2
02...08	Available with spacing code 4
Ductile Iron	
01...16	Available with spacing code 2
02...08	Available with spacing code 4

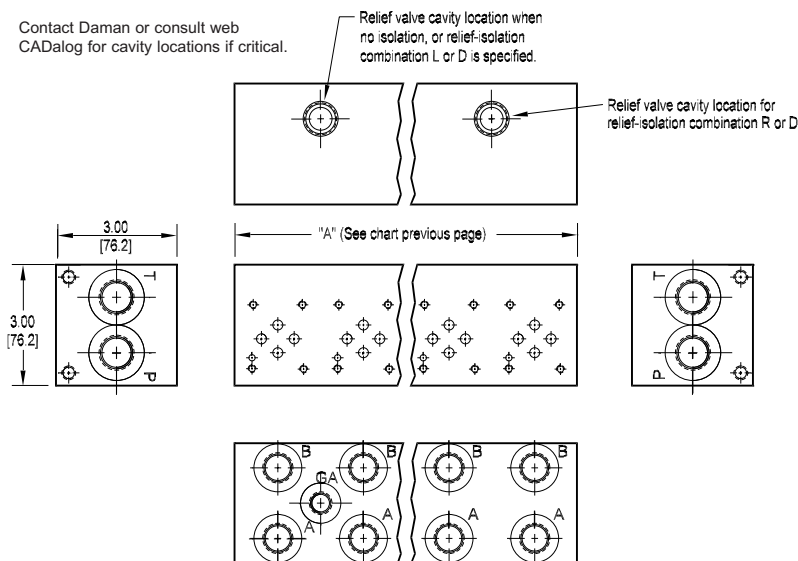
Valve Spacing	
2	2.13 inch 54.0 mm
4	4.00 inch 101.6 mm

Port Threads		P & T	A & B	GA
P	NPTF • ANSI B1.20.3	0.50	0.38	0.25
S	SAE • ISO 11926	-10	-8	-6
B	BSPP • ISO 1179	0.50	0.38	none
M	ISO • ISO 6149	M22	M18	none
T	BSPT • ISO 7	0.50	0.38	none

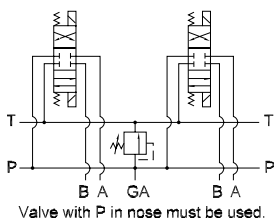
Options	
See next page for available options and ordering codes.	

Options - D03 Standard Flow Parallel Manifold

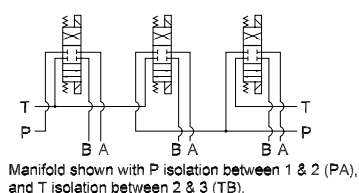
Contact Daman or consult web
CAdalog for cavity locations if critical.



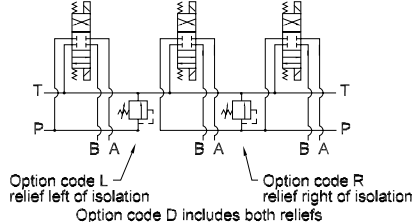
Parallel Circuit with Relief



Parallel Circuit with Isolations



Relief / Isolation Combination



ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
2.125 [54.0] spacing		
A	01 & 02	02-10
B	02 & 03	03-11
C	03 & 04	04-12
D	04 & 05	05-13
E	05 & 06	06-14
F	06 & 07	07-15
G	07 & 08	08-16
H	08 & 09	09-16
J	09 & 10	10-16
4.00 [101.6] spacing		
A	01 & 02	02-08
B	02 & 03	03-08
C	03 & 04	04-08
D	04 & 05	05-08
E	05 & 06	06-08
F	06 & 07	07-08
G	07 & 08	08

* Stations are numbered left to right.

NOTES:

- 1) The GA port is not available on a (1) station manifold.
- 2) The GA port is not available when a pressure isolation is located between stations 1 & 2.
- 3) Some combinations of relief cavities and isolations are not possible. Consult factory to determine availability.

Ordering Information

...	Relief Cavity	Pressure Isolation	Tank Isolation	Relief & Isolation
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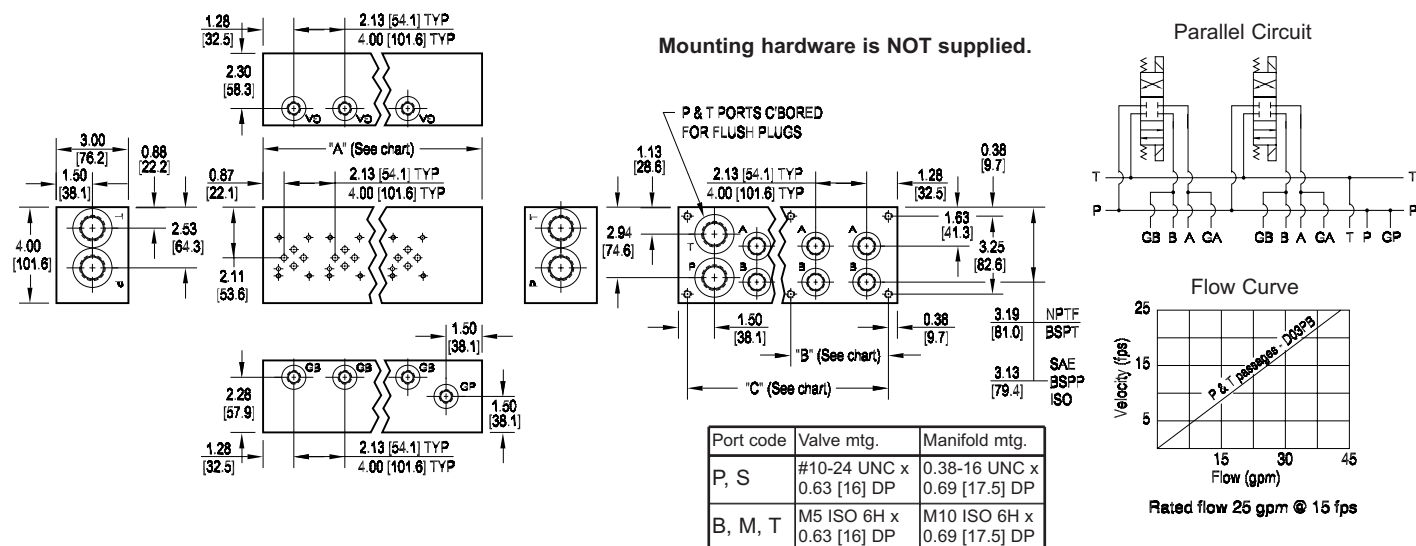
Relief Cavity	
Omit if relief not required	
C	Common cavity C-10-2 (P in nose)
S	Sun Cavity T-10A (P in nose) See Tech Info for valves.

Tank Isolation	
Omit if T isolation not required	
TA...TJ	Available with spacing code 2
TA...TG	Available with spacing code 4

Pressure Isolation	
Omit if P isolation not required	
PA...PJ	Available with spacing code 2
PA...PG	Available with spacing code 4

Relief / Isolation Combination	
Specify when using both relief and isolation options.	
L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

D03 Standard Flow Bottom Ported Manifold



No. of stations	01	02	03	04	05	06	07	08	09	10	11	12	No. of stations	02	03	04	05	06
"A" length (code 2 spa.) inch [mm]	4.38 [111.1]	6.50 [165.1]	8.63 [219.1]	10.75 [273.1]	12.88 [327.0]	15.00 [381.0]	17.13 [435.0]	19.25 [489.0]	21.38 [542.9]	23.50 [596.9]	25.63 [650.9]	27.75 [704.9]	"A" length (code 4 spa.) inch [mm]	8.38 [212.7]	12.38 [314.3]	16.38 [415.9]	20.38 [517.5]	24.38 [619.1]
"B" dim (code 2 spa.) inch [mm]	--	--	--	--	--	--	--	8.34 [211.9]	8.34 [211.9]	10.47 [265.9]	10.47 [265.9]	12.59 [319.9]	"B" dim (code 4 spa.) inch [mm]	--	--	--	10.91 [277.0]	10.91 [277.0]
"C" dim (code 2 spa.) inch [mm]	3.63 [92.1]	5.75 [146.1]	7.88 [200.0]	10.00 [254.0]	12.13 [308.0]	14.25 [362.0]	16.38 [415.9]	18.50 [469.9]	20.63 [523.9]	22.75 [577.9]	24.88 [631.8]	27.00 [685.8]	"C" dim (code 4 spa.) inch [mm]	7.63 [193.7]	11.63 [295.3]	15.63 [396.9]	19.63 [498.5]	23.63 [600.1]
apx. weight alum lb [kg]	5 [2]	8 [4]	10 [5]	13 [6]	15 [7]	18 [8]	21 [9]	23 [10]	26 [12]	28 [13]	31 [14]	33 [15]	apx. weight alum lb [kg]	10 [5]	15 [7]	20 [9]	24 [11]	29 [13]
apx. weight iron lb [kg]	14 [6]	20 [9]	27 [12]	34 [15]	40 [18]	47 [21]	53 [24]	60 [27]	67 [30]	73 [33]	80 [36]	87 [39]	apx. weight iron lb [kg]	26 [12]	39 [18]	51 [23]	64 [29]	76 [34]

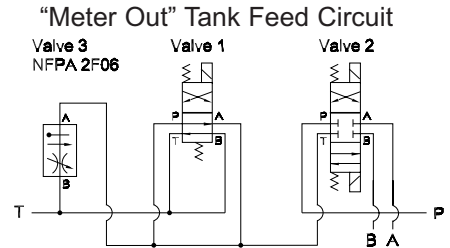
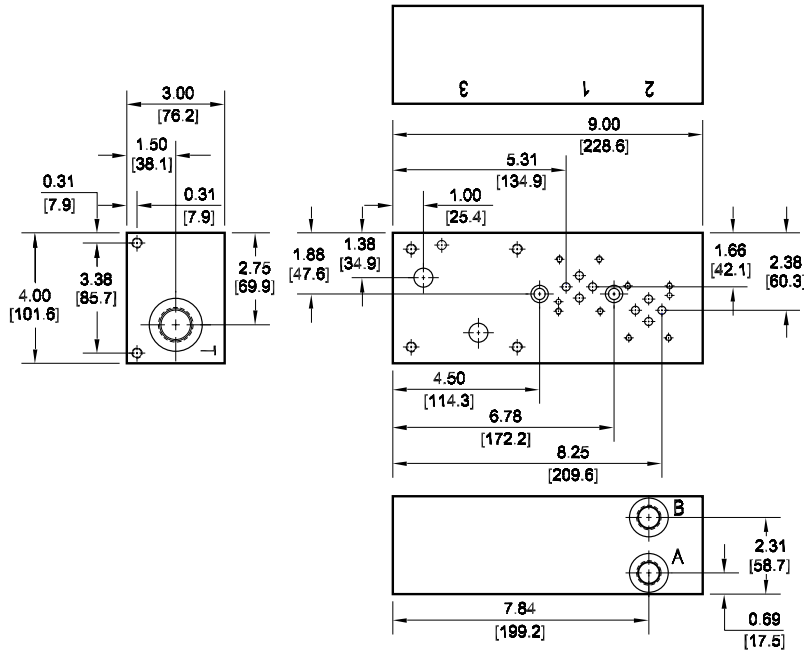
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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern D03 ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information	Circuit PB Parallel Circuit Standard Flow Bottom Ported	No. of Stations Aluminum 01...12 Available with spacing code 2 02...06 Available with spacing code 4 Ductile Iron 01...12 Available with spacing code 2 02...06 Available with spacing code 4	Valve Spacing 2 2.13 inch 54.0 mm 4 4.00 inch 101.6 mm	Port Threads P NPTF • ANSI B1.20.3 S SAE • ISO 11926 B BSPP • ISO 1179 M ISO • ISO 6149 T BSPT • ISO 7 P & T 0.75 -12 0.75 M27 0.75 A & B 0.50 -8 0.50 M18 0.50 G* 0.25 -4 0.25 M10 0.25

D03 Tank Line Feed Circuit Manifold

D03 Directional Valves
2F06 Flow Control Valve
 Valve mtg: D03: UNC #10-24 x 0.63 DP
 2F06: UNC 0.31-18 x 0.63 DP



Manifold Mounting:
 Manifold bracket mounting kit is supplied. See page 62 for itemized mounting kit list.
 Two SHCS clearance holes are provided for optional 5/16 (M8) SHCS mounting. Screws are user provided; minimum 3.00 in [75mm] long GR8 SHCS should be used.

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Ordering Information

Material	Valve Pattern	Circuit	Port Threads
----------	---------------	---------	--------------

Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

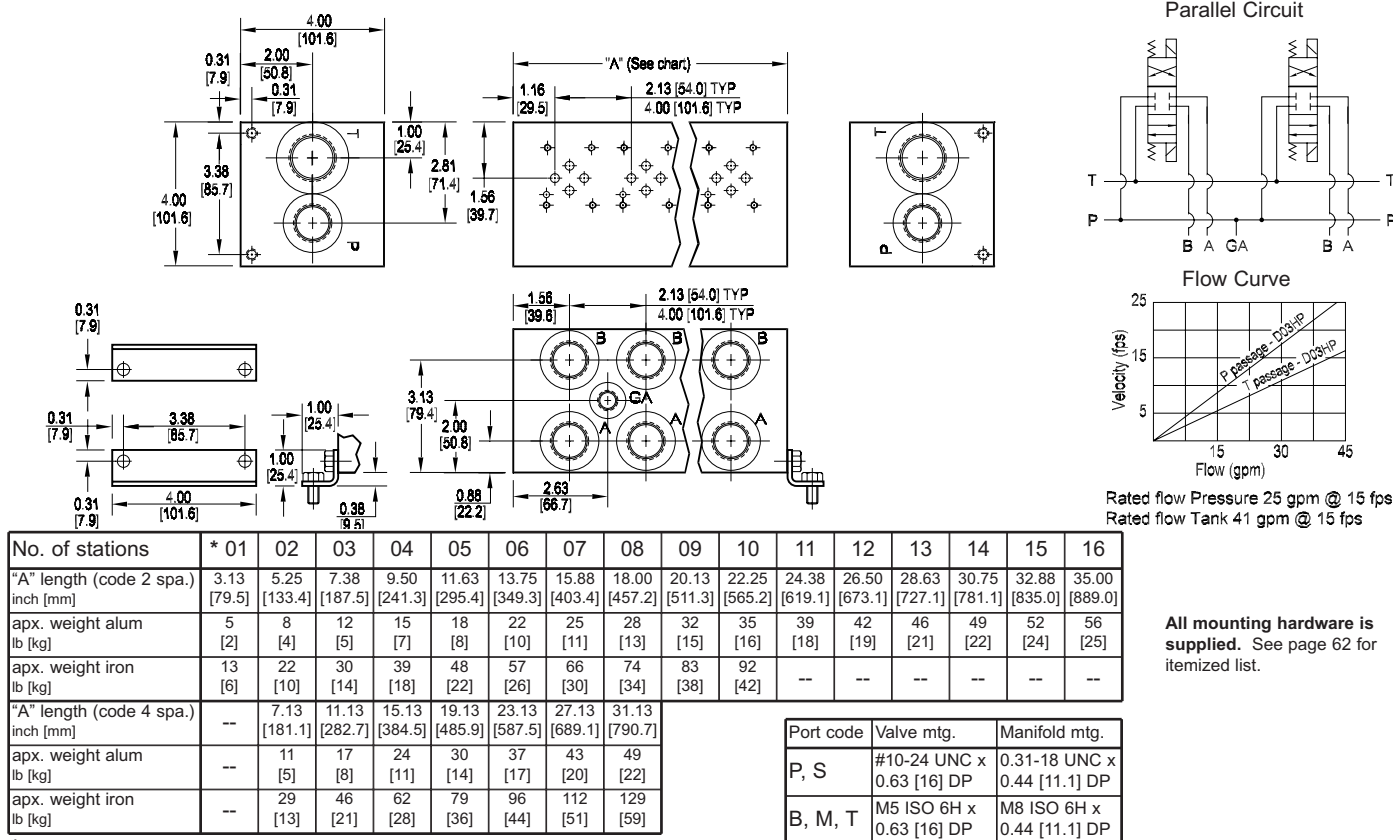
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern	
D03	ISO 4401-03-02 NFA T3.5.1-D03 See Tech Information
Flow Control Pattern (REF): 2F06 Pattern ISO 6263-06-05 NFA T3.5.1-2F06	

Circuit	
TF	Tank Line Feed Circuit

Port Threads		P & T	A & B
P	NPTF • ANSI B1.20.3	0.75	0.38
S	SAE • ISO 11926	-12	-8

D03 High Flow Parallel Circuit Manifold



* Length of 01 station with relief cavity is 4.00 [101.6]. Gauge port not available on 01 station.

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Ordering Information

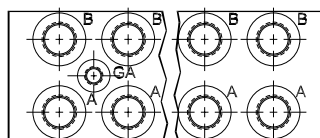
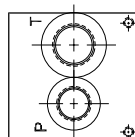
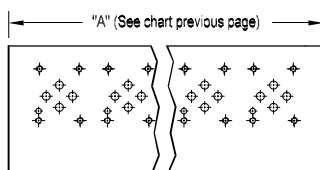
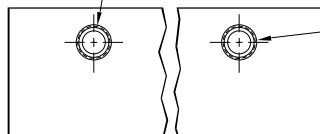
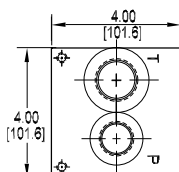
Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options
Material A Aluminum - 6061-T6 3000 [†] psi • 20.7 MPa D Ductile Iron - D4512 5000 [†] psi • 34.5 MPa [†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern D03 ISO 4401-03-02 NFPA T3.5.1-D03 See Tech information	Circuit HP Parallel Circuit High Flow	No. of Stations Aluminum 01...16 Available with spacing code 2 02...08 Available with spacing code 4 Ductile Iron 01...10 Available with spacing code 2 02...08 Available with spacing code 4	Valve Spacing 2 2.13 inch 54.0 mm 4 4.00 inch 101.6 mm	Port Threads P NPTF • ANSI B1.20.3 S SAE • ISO 11926 B BSPP • ISO 1179 M ISO • ISO 6149 T BSPT • ISO 7 P,A,B 0.75 T 1.00 GA 0.25 -12 -16 -6 0.75 1.00 none M27 M33 none	Options See next page for available options and ordering codes.

Options - D03 High Flow Parallel Manifold

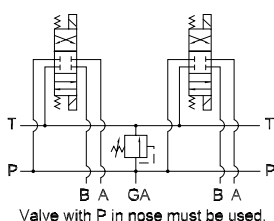
Contact Daman or consult web CADalog for cavity locations if critical.

Relief valve cavity location when no isolation, or relief-isolation combination L or D is specified.

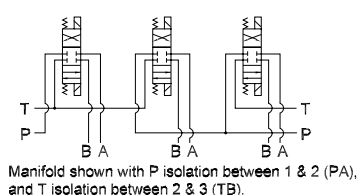
Relief valve cavity location for relief-isolation combination R or D.



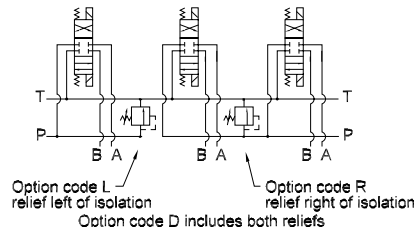
Parallel Circuit with Relief



Parallel Circuit with Isolations



Relief / Isolation Combination



ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
2.125 [54.0] spacing		
A	01 & 02	02-10
B	02 & 03	03-11
C	03 & 04	04-12
D	04 & 05	05-13
E	05 & 06	06-14
F	06 & 07	07-15
G	07 & 08	08-16
H	08 & 09	09-16
J	09 & 10	10-16

4.00 [101.6] spacing		
A	01 & 02	02-08
B	02 & 03	03-08
C	03 & 04	04-08
D	04 & 05	05-08
E	05 & 06	06-08
F	06 & 07	07-08
G	07 & 08	08

* Stations are numbered left to right.

NOTES:

- 1) The GA port is not available on a (1) station manifold.
- 2) The GA port is not available when a pressure isolation is located between stations 1 & 2.
- 3) Some combinations of relief cavities and isolations are not possible. Consult factory to determine availability.

Ordering Information

...	Relief Cavity	Pressure Isolation	Tank Isolation	Relief & Isolation
-----	---------------	--------------------	----------------	--------------------

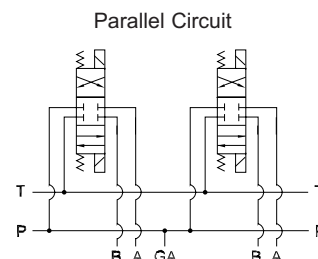
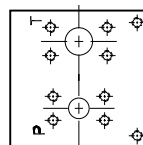
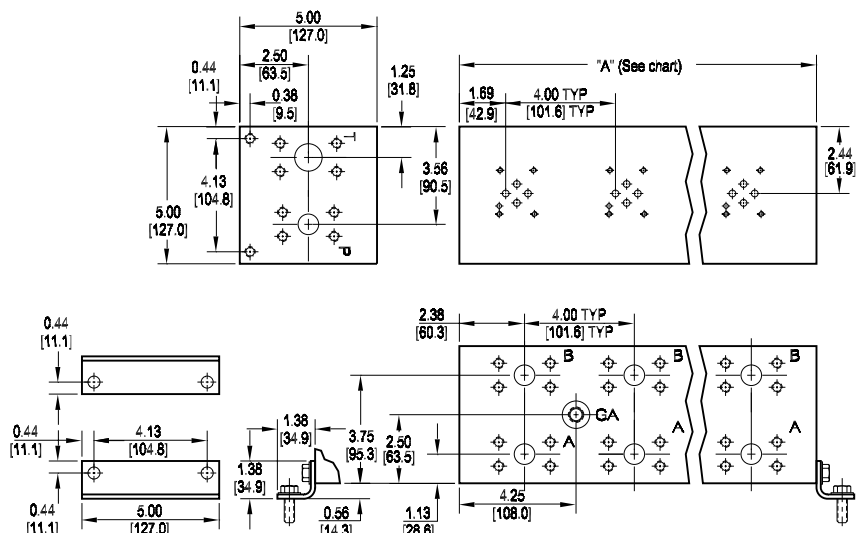
Relief Cavity	
Omit if relief not required	
C	Common cavity C-16-2 (P in nose)
S	Sun Cavity T-3A (P in nose) See Tech Info for valves.

Tank Isolation	
Omit if T isolation not required	
TA...TJ	Available with spacing code 2
TA...TG	Available with spacing code 4

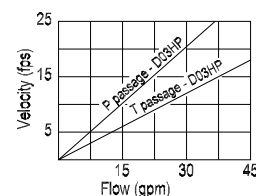
Pressure Isolation	
Omit if P isolation not required	
PA...PJ	Available with spacing code 2
PA...PG	Available with spacing code 4

Relief / Isolation Combination	
Specify when using both relief and isolation options.	
L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

D03 High Flow Parallel Circuit Manifold - Flange Ports



Flow Curve



Rated flow Pressure 21 gpm @ 15 fps
Rated flow Tank 37 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08
"A" length inch [mm]	4.75 [120.7]	8.75 [222.3]	12.75 [323.9]	16.75 [425.5]	20.75 [527.1]	24.75 [628.7]	28.75 [730.3]	32.75 [831.9]
apx. weight alum lb [kg]	12 [5.5]	22 [10]	32 [14.5]	42 [19]	52 [23.5]	62 [28]	72 [33]	82 [37]
apx. weight iron lb [kg]	31 [14]	57 [26]	83 [38]	109 [49]	135 [61]	161 [73]	187 [85]	213 [97]

* Length of 01 station with relief cavity is 5.75 [146.1]. Gauge port not available on 01 station.

All mounting hardware is supplied.
See page 62 for itemized list.

Port code	Valve mtg.	Manifold mtg.	Flange mtg.	GA Port
F	#10-24 UNC x 0.63 [16] DP	0.38-16 UNC x 0.75 [19] DP	ISO 6162 Type II - Inch	-6 SAE J1926
F / M	M5 ISO 6H x 0.63 [16] DP	M10 ISO 6H x 0.75 [19] DP	ISO 6162 Type I - metric	NONE

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
----------	---------------	---------	-----------------	---------------	--------------	---	---------

Material
A Aluminum - 6061-T6 3000† psi • 20.7 MPa
D Ductile Iron - D4512 5000† psi • 34.5 MPa
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit
HP Parallel Circuit High Flow

Valve Spacing
4 4.00 inch 101.6 mm

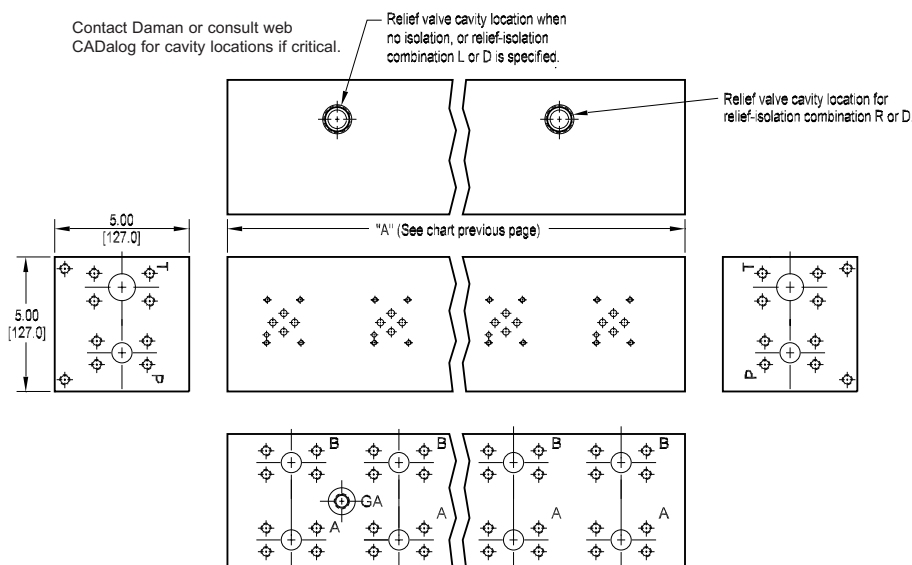
Options
See next page for available options and ordering codes.

Valve Pattern
D03 ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

No. of Stations
Aluminum or Ductile Iron
01...08 Available with spacing code 4

Port Threads	P,A,B	T
F CODE 61 4-Bolt Flange SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	0.75 CODE 61	1.00 CODE 61

Options - D03 High Flow Parallel Manifold Flange Ports



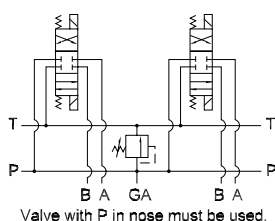
ISOLATIONS		
Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.		
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 03	03-08
C	03 & 04	04-08
D	04 & 05	05-08
E	05 & 06	06-08
F	06 & 07	07-08
G	07 & 08	08

* Stations are numbered left to right.

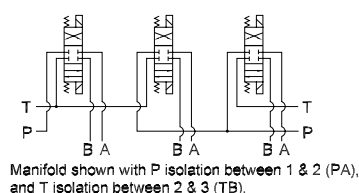
NOTES:

- 1) The GA port is not available on a (1) station manifold.
- 2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

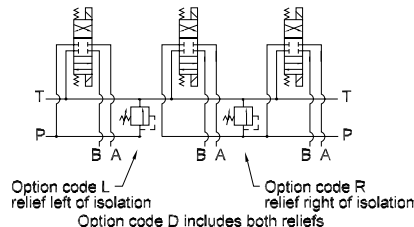
Parallel Circuit with Relief



Parallel Circuit with Isolations



Relief / Isolation Combination



Ordering Information

...	Thread Type	Relief Cavity	Pressure Isolation	Tank Isolation	Relief & Isolation
-----	-------------	---------------	--------------------	----------------	--------------------

Thread Type	
Omit	Inch threads / ports
M	Metric threads / ports

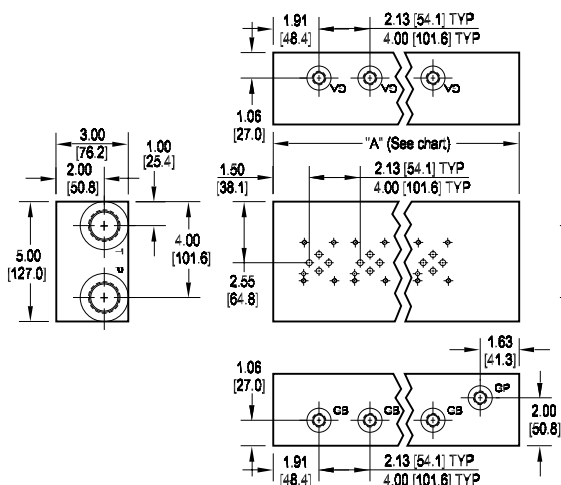
Relief Cavity	
Omit if relief not required	
C	Common cavity C-16-2 (P in nose)
S	Sun Cavity T-3A (P in nose) See Tech Info for valves.

Tank Isolation	
Omit if T isolation not required	
TA...TG	Available with spacing code 4

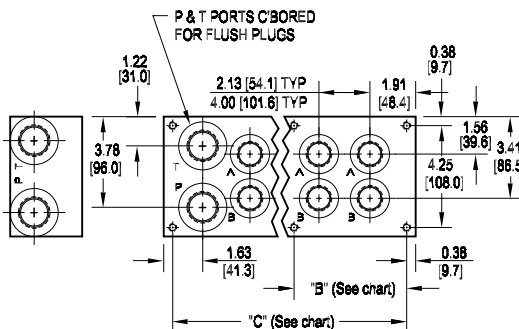
Pressure Isolation	
Omit if P isolation not required	
PA...PG	Available with spacing code 4

Relief / Isolation Combination	
Specify when using both relief and isolation options.	
L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

D03 High Flow Bottom Ported Manifold

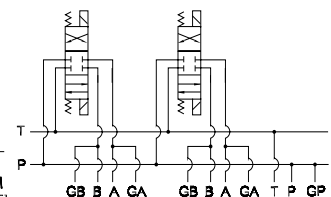


Mounting hardware is NOT supplied.

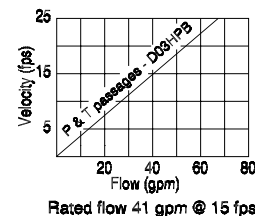


Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.56 [14.3] DP	0.38-16 UNC x 1.00 [25.4] DP
B, M, T	M5 ISO 6H x 0.56 [14.3] DP	M10 ISO 6H x 1.00 [25.4] DP

Parallel Circuit



Flow Curve



No. of stations	01	02	03	04	05	06	07	08	09	10	No. of stations	02	03	04	05	06
"A" length (code 2 spa.) inch [mm]	5.50 [139.7]	7.63 [193.7]	9.75 [247.7]	11.88 [301.6]	14.00 [355.6]	16.13 [409.6]	18.25 [463.6]	20.38 [517.5]	22.50 [571.5]	24.63 [625.5]	"A" length (code 4 spa.) inch [mm]	9.50 [241.3]	13.50 [342.9]	17.50 [444.5]	21.50 [546.1]	25.50 [647.7]
"B" dim (code 2 spa.) inch [mm]	--	--	--	--	--	--	--	8.97 [227.8]	11.09 [281.8]	11.09 [281.8]	"B" dim (code 4 spa.) inch [mm]	--	--	--	11.53 [292.9]	11.53 [292.9]
"C" dim (code 2 spa.) inch [mm]	4.75 [120.7]	6.88 [174.6]	9.00 [228.6]	11.13 [282.6]	13.25 [336.6]	15.38 [390.5]	17.50 [444.5]	19.63 [498.5]	21.75 [552.5]	23.88 [606.4]	"C" dim (code 4 spa.) inch [mm]	8.75 [222.3]	12.75 [323.9]	16.75 [425.5]	20.75 [527.1]	24.75 [628.7]
apx. weight alum lb [kg]	8 [4]	11 [5]	15 [7]	18 [8]	21 [10]	24 [11]	27 [12]	31 [14]	34 [15]	37 [17]	apx. weight alum lb [kg]	14 [6]	20 [9]	26 [12]	32 [15]	38 [17]
apx. weight iron lb [kg]	21 [10]	30 [13]	38 [17]	46 [21]	55 [25]	63 [29]	71 [32]	79 [36]	88 [40]	96 [44]	apx. weight iron lb [kg]	37 [17]	53 [24]	68 [31]	84 [38]	99 [45]

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads
----------	---------------	---------	-----------------	---------------	--------------

Material
A Aluminum - 6061-T6 3000† psi • 20.7 MPa
D Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern
D03 ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Circuit
HPB Parallel Circuit High Flow Bottom Ported

Valve Spacing
2 2.13 inch 54.0 mm
4 4.00 inch 101.6 mm

No. of Stations
Aluminum
01...10 Available with spacing code 2
02...06 Available with spacing code 4
Ductile Iron
01...10 Available with spacing code 2
02...06 Available with spacing code 4

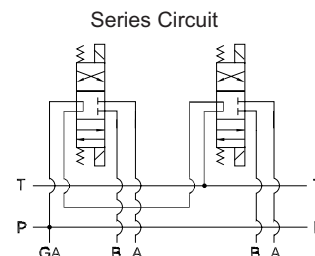
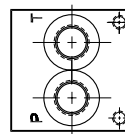
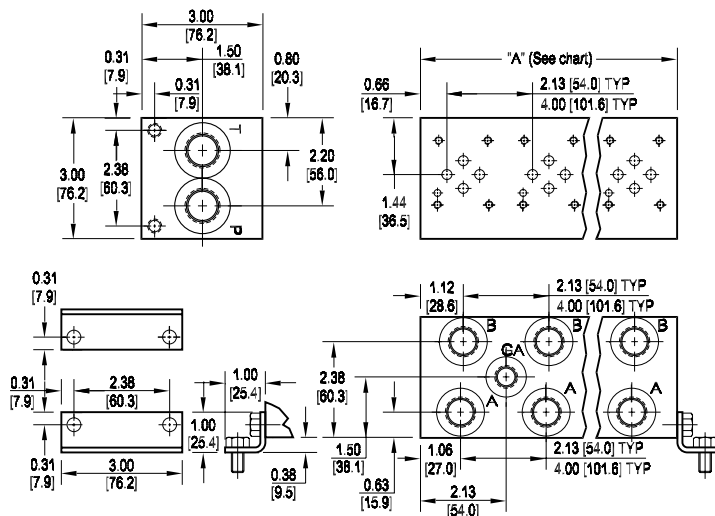
Port Threads	P & T	A & B	G*
P NPTF • ANSI B1.20.3	1.00	0.75	0.25
S SAE • ISO 11926	-16	-12	-4
B BSPP • ISO 1179	1.00	0.75	0.25
M ISO • ISO 6149	M33	M27	M10
T BSPT • ISO 7	1.00	0.75	0.25



D03 Series Circuit Manifolds 

Technical Information	Header and Junction Blocks	DIN Cartridge Valve Bodies	Tapping Plates	Servo Valve Subplates	Subplates	Valve Adaptors	Cover Plates	Standard Manifolds	Custom Products
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D03 Series Circuit Manifold



No. of stations	02	03	04	05	06	07	08
"A" length (code 2 spa.) inch [mm]	4.25 [108.0]	6.38 [162.1]	8.50 [215.9]	10.63 [270.0]	12.75 [323.9]	14.88 [378.0]	17.00 [431.8]
apx. weight alum lb [kg]	4 [2]	6 [3]	8 [4]	9 [4]	11 [5]	12 [5]	14 [6]
apx. weight iron lb [kg]	9 [4]	13 [6]	17 [8]	23 [10]	26 [12]	--	--
"A" length (code 4 spa.) inch [mm]	6.13 [155.7]	10.13 [257.3]	14.13 [358.9]				
apx. weight alum lb [kg]	6 [3]	9 [4]	12 [5]				
apx. weight iron lb [kg]	12 [5]	20 [9]	28 [13]				

All mounting hardware is supplied.
See page 62 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.63 [16] DP	0.31-18 UNC x 0.44 [11.1] DP
B, M, T	M5 ISO 6H x 0.63 [16] DP	M8 ISO 6H x 0.44 [11.1] DP

Note: Both Daman's parallel and series D03 manifolds have pressure and tank lines that run the length of the manifold. Consequently it is commonly assumed that an error was made by marking a parallel manifold incorrectly as a series. Upon closer inspection it can be seen that the valve patterns are indeed connected in series.

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
----------	---------------	---------	-----------------	---------------	--------------	---	---------

Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern	
D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Circuit	
S	Series Circuit

No. of Stations	
Aluminum	
02...08	Available with spacing code 2
02...04	Available with spacing code 4
Ductile Iron	
02...06	Available with spacing code 2
02...04	Available with spacing code 4

Valve Spacing	
2	2.13 inch 38.1 mm
4	4.00 inch 101.6 mm

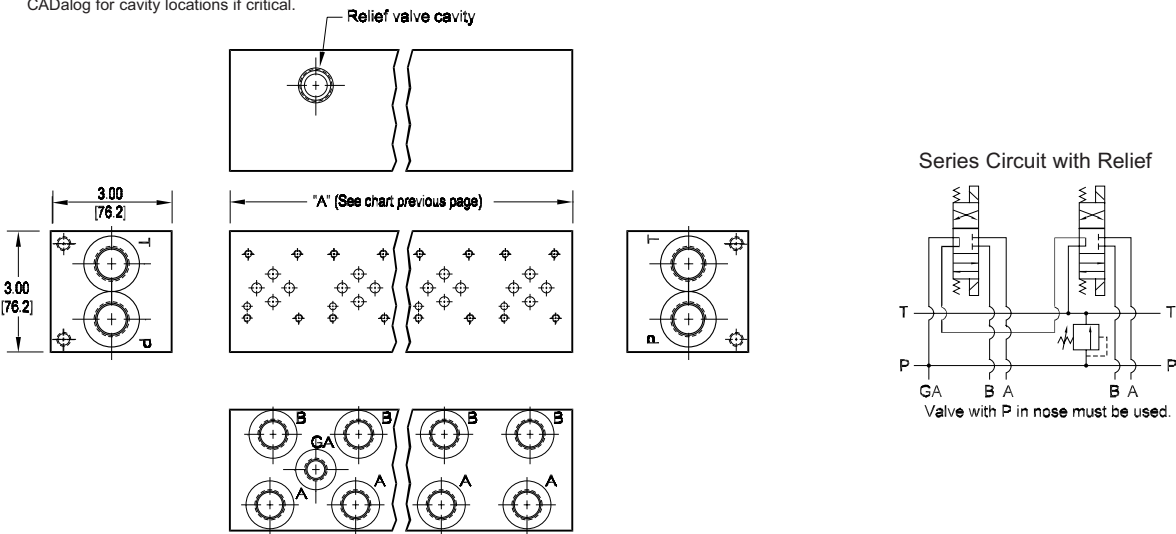
Port Threads		P & T	A & B	GA
P	NPTF • ANSI B1.20.3	0.50	0.38	0.25
S	SAE • ISO 11926	-10	-8	-6
B	BSPP • ISO 1179	0.50	0.38	none
M	ISO • ISO 6149	M22	M18	none
T	BSPT • ISO 7	0.50	0.38	none

Options	
See next page for available options and ordering codes.	

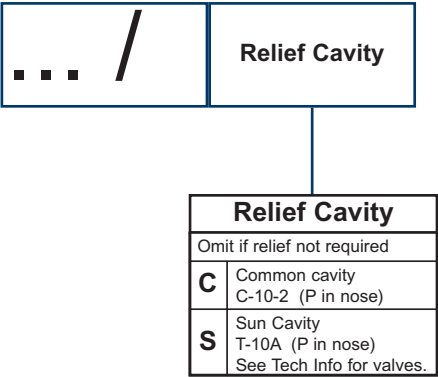


Options - D03 Series Manifold

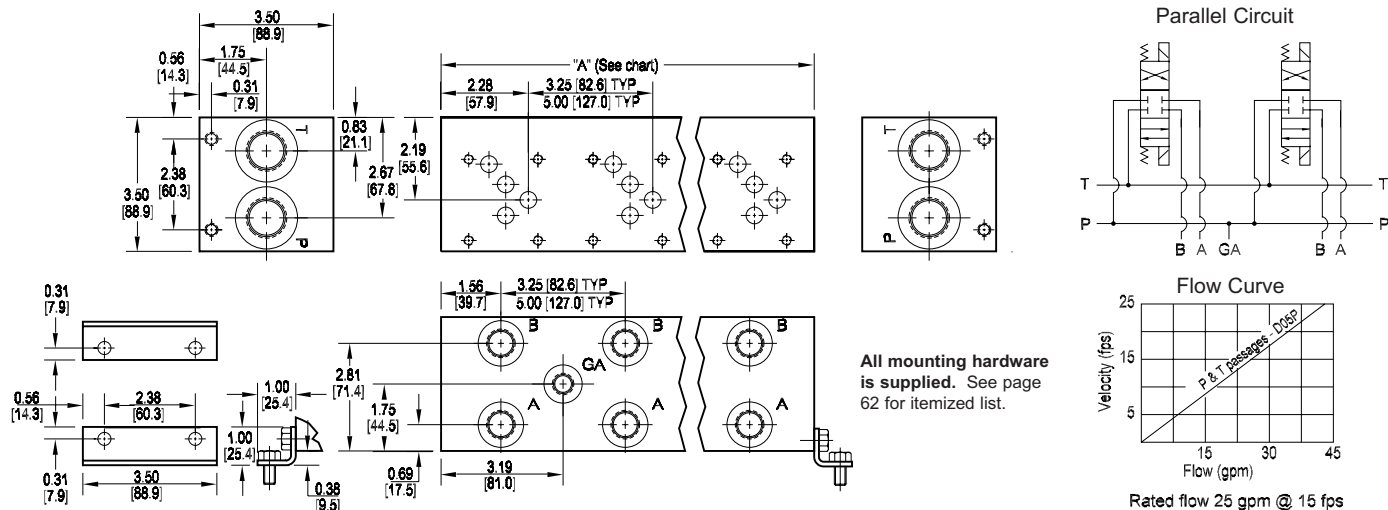
Contact Daman or consult web
CADalog for cavity locations if critical.



Ordering Information



D05 Standard Flow Parallel Manifold



No. of stations	* 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
"A" length (code 3 spa.) inch [mm]	3.25 [82.6]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]	16.25 [412.8]	19.50 [495.3]	22.75 [577.9]	26.00 [660.4]	29.25 [743.0]	32.50 [825.5]	35.75 [908.1]	39.00 [990.6]	42.25 [1073.2]	45.50 [1155.7]	48.75 [1238.3]	52.00 [1320.8]	55.25 [1403.4]	58.50 [1485.9]	61.75 [1568.5]	65.00 [1651.0]	68.25 [1733.6]
apx. weight alum lb [kg]	4 [2]	8 [4]	11 [5]	14 [7]	17 [8]	21 [10]	24 [11]	27 [12]	30 [14]	34 [15]	37 [17]	41 [19]	44 [20]	47 [21]	51 [23]	55 [25]	58 [26]	61 [28]	64 [29]	67 [30]	71 [32]
apx. weight iron lb [kg]	9 [4]	17 [8]	26 [12]	34 [15]	43 [20]	51 [23]	60 [27]	68 [31]	77 [35]	85 [39]	94 [43]	102 [46]	--	--	--	--	--	--	--	--	--
"A" length (code 5 spa.) inch [mm]	--	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]	23.25 [590.6]	28.25 [717.6]	33.25 [844.6]	38.25 [971.6]	43.25 [1098.6]	48.25 [1225.6]	53.25 [1352.6]	58.25 [1479.6]	63.25 [1606.6]	68.25 [1733.6]							
apx. weight alum lb [kg]	--	9 [4]	15 [7]	20 [9]	25 [11]	30 [14]	35 [16]	41 [19]	46 [21]	50 [23]	55 [25]	60 [27]	65 [29]	71 [32]							
apx. weight iron lb [kg]	--	22 [10]	36 [16]	49 [22]	62 [28]	76 [34]	89 [40]	102 [46]	116 [53]	--	--	--	--	--							
																Port code		Valve mtg.		Manifold mtg.	
																P, S		0.25-20 UNC x 0.75 [19] DP		0.31-18 UNC x 0.44 [11.1] DP	
																B, M, T		M6 ISO 6H x 0.75 [19] DP		M8 ISO 6H x 0.44 [11.1] DP	

* Length of 01 station with relief cavity is 4.50 [114.3]. Gauge port not available on 01 station.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation. Download latest catalog page revisions at www.damanifolds.com.

Ordering Information

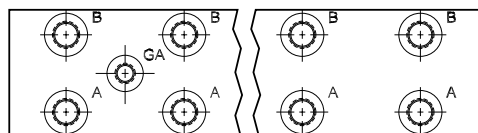
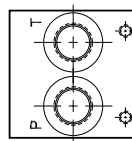
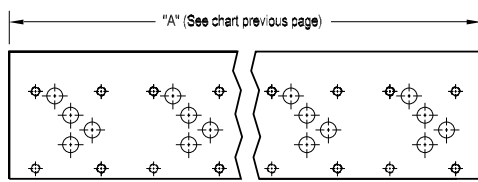
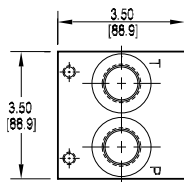
Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern D05 ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	Circuit P Parallel Circuit Standard Flow	No. of Stations Aluminum 01...21 Available with spacing code 3 02...14 Available with spacing code 5 Ductile Iron 01...12 Available with spacing code 3 02...09 Available with spacing code 5	Valve Spacing 3 3.25 inch 82.6 mm 5 5.00 inch 127.0 mm	Port Threads P NPTF • ANSI B1.20.3 S SAE • ISO 11926 B BSPP • ISO 1179 M ISO • ISO 6149 T BSPT • ISO 7 P & T 0.75 -12 M27 0.75 0.75 0.75 0.75 A & B 0.50 -8 0.50 0.50 0.50 0.50 GA 0.25 -6 none none none none	Options See next page for available options and ordering codes.

Options - D05 Standard Flow Parallel Manifold

Contact Daman or consult web
CADalog for cavity locations if critical.

Relief valve cavity location when
no isolation, or relief-isolation
combination L or D is specified.

Relief valve cavity location for
relief-isolation combination R or D.



ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
3.25 [82.6] spacing		
A	01 & 02	02-10
B	02 & 03	03-11
C	03 & 04	04-12
D	04 & 05	05-13
E	05 & 06	06-14
F	06 & 07	07-15
G	07 & 08	08-16
H	08 & 09	09-17
J	09 & 10	10-18

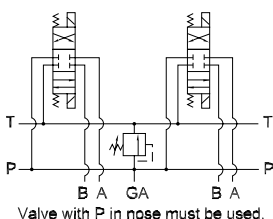
5.00 [127.0] spacing		
A	01 & 02	02-07
B	02 & 03	03-08
C	03 & 04	04-09
D	04 & 05	05-10
E	05 & 06	06-11
F	06 & 07	07-12

* Stations are numbered left to right.

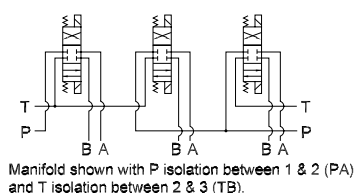
NOTES:

- 1) The GA port is not available on a (1) station manifold.
- 2) The GA port is not available when a pressure isolation is located between stations 1 & 2.
- 3) Some combinations of relief cavities and isolations are not possible. Consult factory to determine availability.

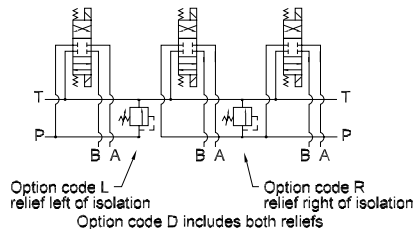
Parallel Circuit with Relief



Parallel Circuit with Isolations



Relief / Isolation Combination



Ordering Information

...	Relief Cavity	Pressure Isolation	Tank Isolation	Relief & Isolation
-----	---------------	--------------------	----------------	--------------------

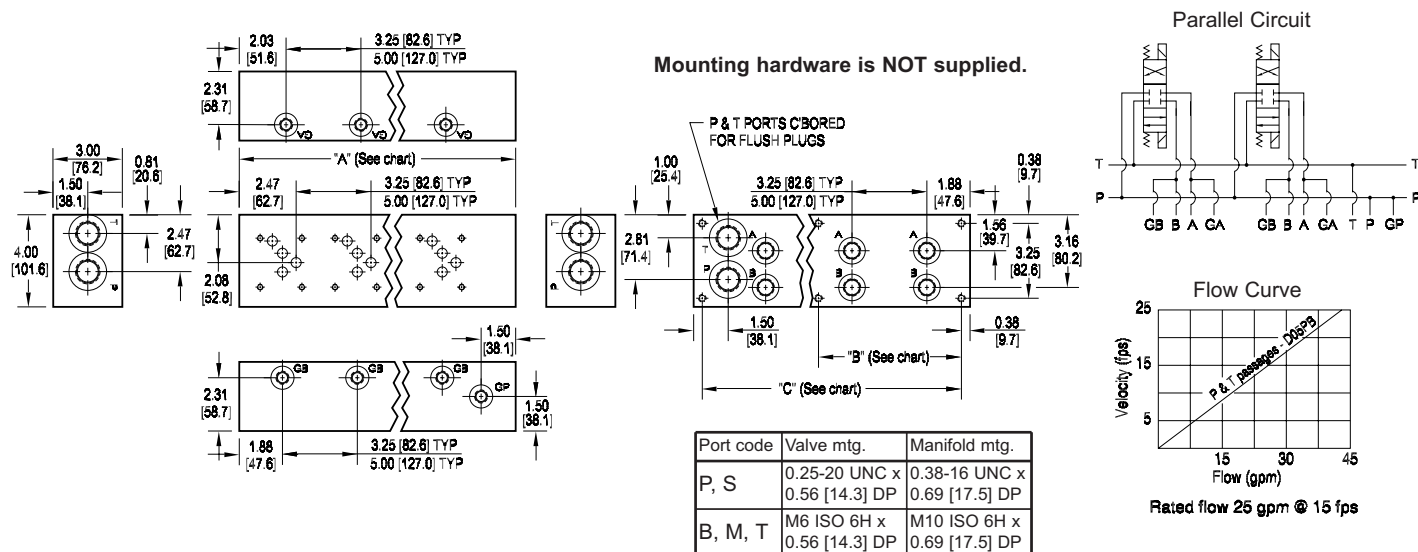
Relief Cavity	
Omit if relief not required	
C	Common cavity C-10-2 (P in nose)
S	Sun Cavity T-3A (P in nose) See Tech Info for valves.

Tank Isolation	
Omit if T isolation not required	
TA...TJ	Available with spacing code 3
TA...TF	Available with spacing code 5

Pressure Isolation	
Omit if P isolation not required	
PA...PJ	Available with spacing code 3
PA...PF	Available with spacing code 5

Relief / Isolation Combination	
Specify when using both relief and isolation options.	
L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

D05 Standard Flow Bottom Ported Manifold



No. of stations	01	02	03	04	05	06	07	08	09	10	No. of stations	02	03	04	05	06
"A" length (code 3 spa.) inch [mm]	5.00 [127.0]	8.25 [209.6]	11.50 [292.1]	14.75 [374.7]	18.00 [457.2]	21.25 [539.8]	24.50 [622.3]	27.75 [704.9]	31.00 [787.4]	34.25 [870.0]	"A" length (code 5 spa.) inch [mm]	10.00 [254.0]	15.00 [381.0]	20.00 [508.0]	25.00 [635.0]	30.00 [762.0]
"B" dim (code 3 spa.) inch [mm]	--	--	--	--	--	9.63 [244.5]	9.63 [244.5]	12.88 [327.0]	12.88 [327.0]	16.13 [409.6]	"B" dim (code 5 spa.) inch [mm]	--	--	9.00 [228.6]	14.00 [355.6]	14.00 [355.6]
"C" dim (code 3 spa.) inch [mm]	4.25 [108.0]	7.50 [190.5]	10.75 [273.1]	14.00 [355.6]	17.25 [438.2]	20.50 [520.7]	23.75 [603.3]	27.00 [685.8]	30.25 [768.4]	33.50 [850.9]	"C" dim (code 5 spa.) inch [mm]	9.25 [235.0]	14.25 [362.0]	19.25 [489.0]	24.25 [616.0]	29.25 [743.0]
apx. weight alum lb [kg]	6 [3]	10 [4]	14 [6]	18 [8]	22 [10]	26 [12]	29 [13]	33 [15]	37 [17]	41 [19]	apx. weight alum lb [kg]	12 [5]	18 [8]	24 [11]	30 [14]	36 [16]
apx. weight iron lb [kg]	16 [7]	26 [12]	36 [16]	46 [21]	56 [25]	66 [30]	76 [35]	87 [39]	97 [44]	107 [48]	apx. weight iron lb [kg]	31 [14]	47 [21]	62 [28]	78 [35]	94 [42]

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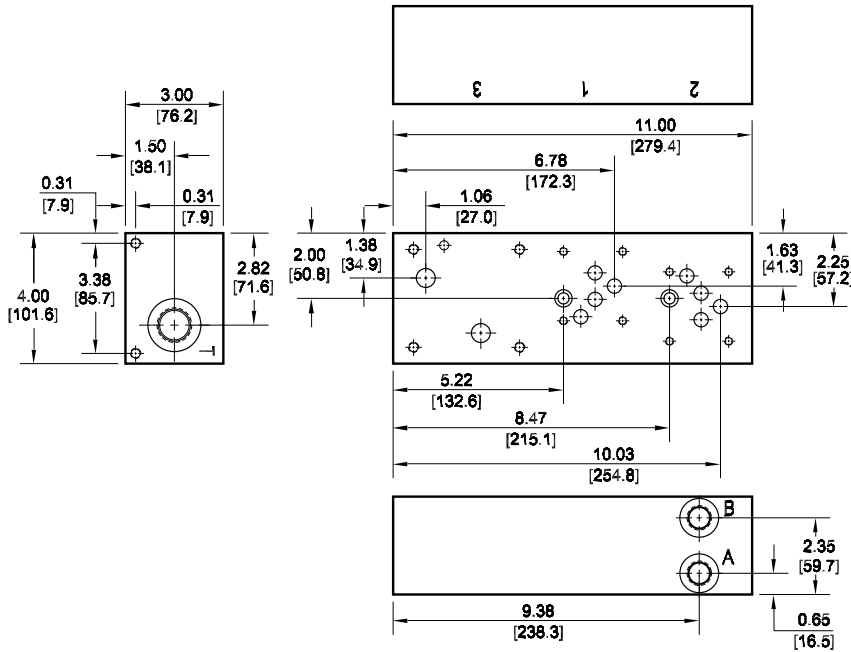
Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern D05 ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	Circuit PB Parallel Circuit Standard Flow Bottom Ported	No. of Stations Aluminum 01...10 Available with spacing code 3 02...06 Available with spacing code 5 Ductile Iron 01...10 Available with spacing code 3 02...06 Available with spacing code 5	Valve Spacing 3 3.25 inch 82.6 mm 5 5.00 inch 127.0 mm	Port Threads P NPTF • ANSI B1.20.3 S SAE • ISO 11926 B BSPP • ISO 1179 M ISO • ISO 6149 T BSPT • ISO 7 P & T 0.75 -12 0.75 M27 0.75 A & B 0.50 -8 0.50 M18 0.50 G* 0.25 -4 0.25 M10 0.25

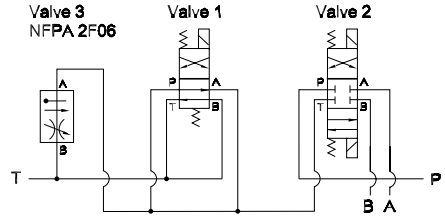
D05 Tank Line Feed Circuit Manifold

D05 Directional Valves 2F06 Flow Control Valve

Valve mtg: D05: UNC 0.25-20 x 0.50 DP
2F06: UNC 0.31-18 x 0.63 DP



"Meter Out" Tank Feed Circuit



Manifold Mounting:

Manifold bracket mounting kit is supplied. See page 62 for itemized mounting kit list.

Two SHCS clearance holes are provided for optional 5/16 (M8) SHCS mounting. Screws are user provided; minimum 3.00 in [75mm] long GR8 SHCS should be used.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation. Download latest catalog page revisions at www.damanifolds.com.

Ordering Information

Material	Valve Pattern	Circuit	Port Threads
----------	---------------	---------	--------------

Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

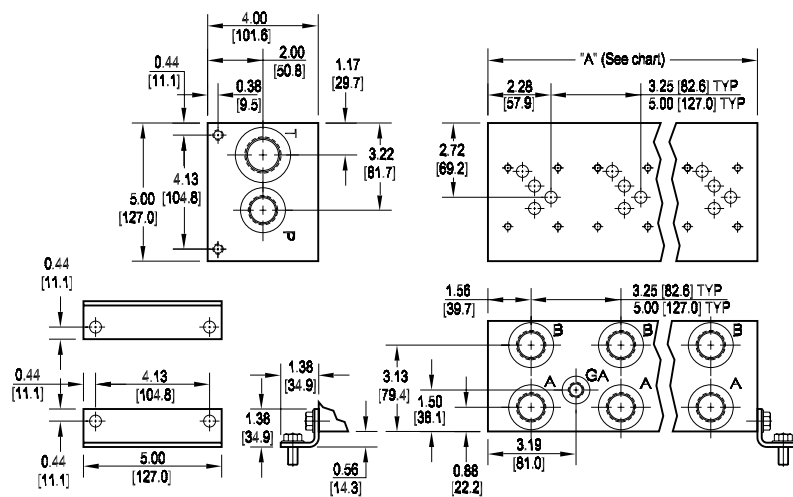
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern	
D05	ISO 4401-05-04 NFA T3.5.1-D05 See Tech Information
Flow Control Pattern (REF): 2F06 Pattern ISO 6263-06-05 NFA T3.5.1-2F06	

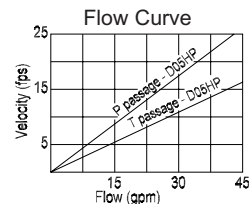
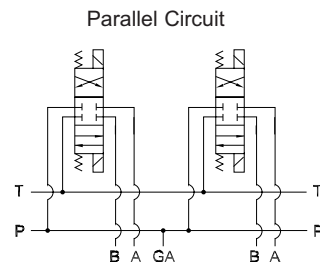
Circuit	
TF	Tank Line Feed Circuit

Port Threads		P & T	A & B
P	NPTF • ANSI B1.20.3	0.75	0.50
S	SAE • ISO 11926	-12	-8

D05 High Flow Parallel Circuit Manifold



All mounting hardware is supplied. See page 62 for itemized list.



Rated flow Pressure 25 gpm @ 15 fps
Rated flow Tank 41 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
"A" length (code 3 spa.) inch [mm]	3.25 [82.6]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]	16.25 [412.8]	19.50 [495.3]	22.75 [577.9]	26.00 [660.4]	29.25 [743.0]	32.50 [825.5]	35.75 [908.1]	39.00 [990.6]	42.25 [1073.2]	45.50 [1155.7]	48.75 [1238.3]	52.00 [1320.8]	55.25 [1403.4]	58.50 [1485.9]	61.75 [1568.5]	65.00 [1651.0]	68.25 [1733.6]
apx. weight alum lb [kg]	7 [3]	12 [5]	17 [8]	22 [10]	27 [12]	33 [15]	38 [17]	43 [20]	48 [22]	53 [24]	58 [26]	63 [29]	68 [31]	74 [34]	79 [36]	84 [38]	89 [40]	94 [43]	99 [45]	104 [47]	110 [50]
apx. weight iron lb [kg]	19 [9]	38 [17]	57 [26]	75 [34]	85 [39]	113 [51]	132 [60]	151 [69]	170 [77]	189 [86]	208 [94]	226 [103]	--	--	--	--	--	--	--	--	--
"A" length (code 5 spa.) inch [mm]	--	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]	23.25 [590.6]	28.25 [717.6]	33.25 [844.6]	38.25 [971.6]	43.25 [1098.6]	48.25 [1225.6]	53.25 [1352.6]	58.25 [1479.6]	63.25 [1606.6]	68.25 [1733.6]							
apx. weight alum lb [kg]	--	18 [8]	26 [12]	33 [15]	41 [19]	48 [22]	56 [25]	63 [29]	71 [32]	79 [36]	87 [39]	95 [43]	103 [47]	111 [50]							
apx. weight iron lb [kg]	--	48 [22]	77 [35]	106 [48]	135 [61]	164 [74]	188 [85]	222 [101]	251 [114]	--	--	--	--	--							

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.75 [19] DP	0.38-16 UNC x 0.75 [19] DP
B, M, T	M6 ISO 6H x 0.75 [19] DP	M10 ISO 6H x 0.75 [19] DP

* Length of 01 station with relief cavity is 4.50 [114.3]. Gauge port not available on 01 station.

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
----------	---------------	---------	-----------------	---------------	--------------	---	---------

Material
A Aluminum - 6061-T6 3000† psi • 20.7 MPa
D Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern
D05 ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit
HP Parallel Circuit High Flow

No. of Stations
Aluminum
01...21 Available with spacing code 3
02...14 Available with spacing code 5
Ductile Iron
01...12 Available with spacing code 3
02...09 Available with spacing code 5

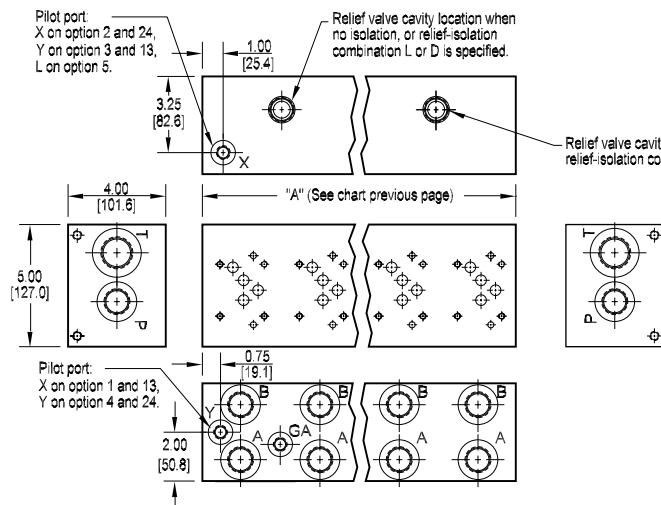
Valve Spacing
3 3.25 inch 82.6 mm
5 5.00 inch 127.0 mm

Port Threads	P,A,B	T	X,Y,L optional	GA
P NPTF • ANSI B1.20.3	0.75	1.00	0.38	0.25
S SAE • ISO 11926	-12	-16	-6	-6
B BSPP • ISO 1179	0.75	1.00	0.38	none
M ISO • ISO 6149	M27	M33	M14	none
T BSPT • ISO 7	0.75	1.00	0.38	none

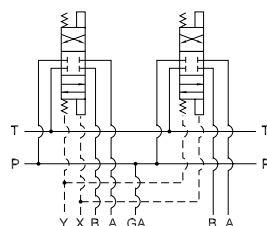
Options
See next page for available options and ordering codes.

Options - D05 High Flow Parallel Manifold

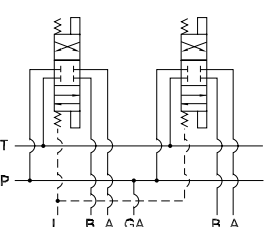
Pilot port location dimensions vary on (1) station manifolds and manifolds with isolations. Contact Daman or consult web CADalog for cavity locations if critical.



Parallel Circuit with X & Y



Parallel Circuit with L



ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

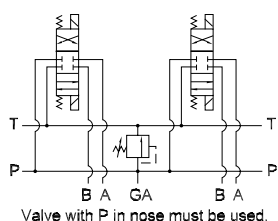
Ordering code letter:	* Isolation is between stations:	Available # of stations:
3.25 [82.6] spacing		
A	01 & 02	02-10
B	02 & 03	03-11
C	03 & 04	04-12
D	04 & 05	05-13
E	05 & 06	06-14
F	06 & 07	07-15
G	07 & 08	08-16
H	08 & 09	09-17
J	09 & 10	10-18
5.00 [127.0] spacing		
A	01 & 02	02-07
B	02 & 03	03-08
C	03 & 04	04-09
D	04 & 05	05-10
E	05 & 06	06-11
F	06 & 07	07-12

* Stations are numbered left to right.

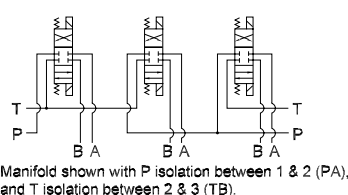
NOTES:

- 1) The GA port is not available on a (1) station manifold.
- 2) The GA port is not available when a pressure isolation is located between stations 1 & 2.
- 3) Some combinations of relief cavities and isolations are not possible. Consult factory to determine availability.

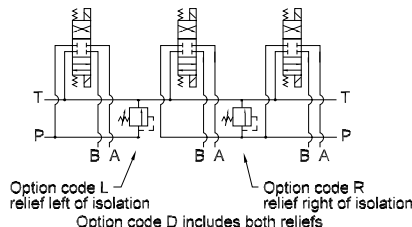
Parallel Circuit with Relief



Parallel Circuit with Isolations



Relief / Isolation Combination



Ordering Information

...	Pilot Ports	Relief Cavity	Pressure Isolation	Tank Isolation	Relief & Isolation
-----	-------------	---------------	--------------------	----------------	--------------------

Pilot Ports	
Omit if pilot ports not required	
1	X port (USA std) NFFPA T3.5.1-D05 Alt-B
3	Y port (USA std) NFFPA T3.5.1-D05 Alt-B
13	X & Y ports (USA std) NFFPA T3.5.1-D05 Alt-B
2	X port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A
4	Y port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A
24	X & Y ports ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A
5	L ports Proportional valves

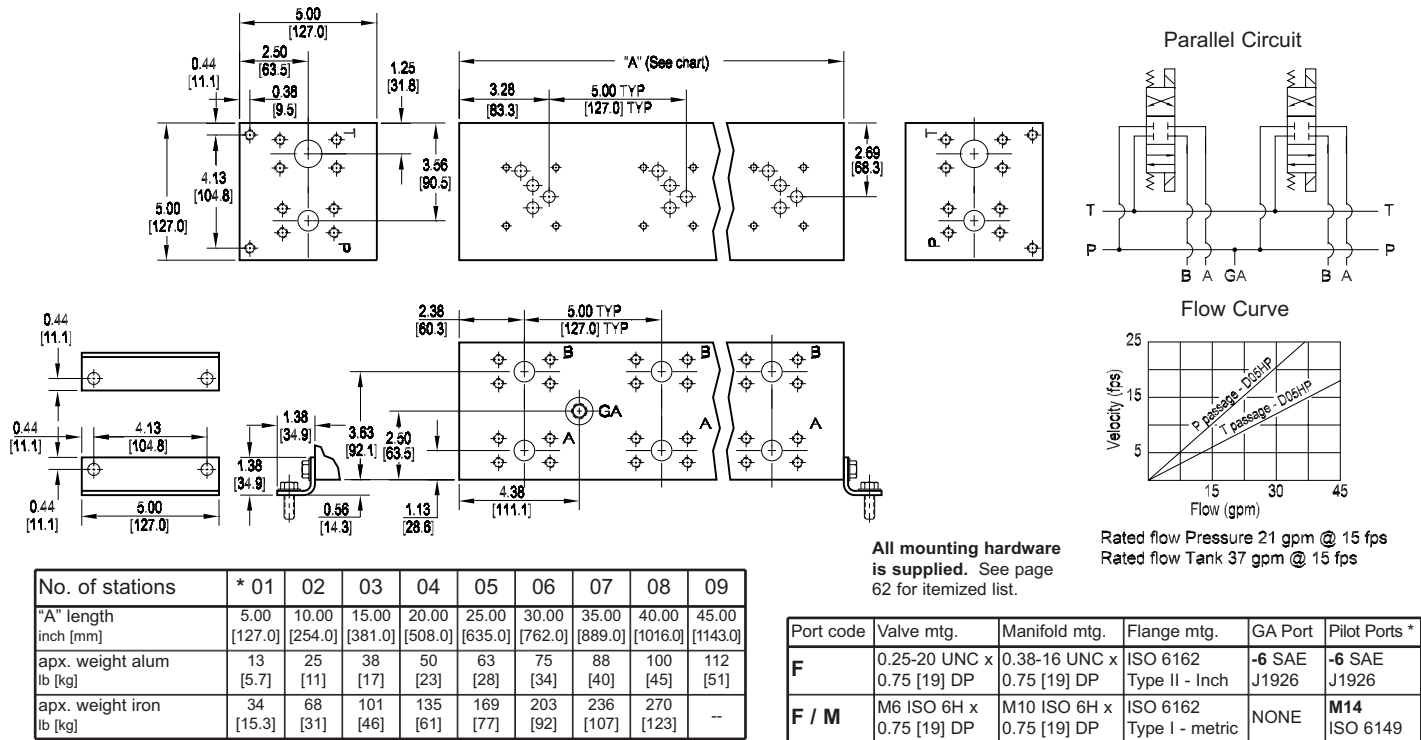
Relief Cavity	
Omit if relief not required	
C	Common cavity C-10-2 (P in nose)
S	Sun Cavity T-3A (P in nose) See Tech Info for valves.

Tank Isolation	
Omit if T isolation not required	
TA...TJ	Available with spacing code 3
TA...TF	Available with spacing code 5

Relief / Isolation Combination	
Specify when using both relief and isolation options.	
L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pressure Isolation	
Omit if P isolation not required	
PA...PJ	Available with spacing code 3
PA...PF	Available with spacing code 5

D05 High Flow Parallel Circuit Manifold - Flange Ports



* Length of 01 station with relief cavity is 5.75 [146.1]. Gauge port not available on 01 station.

* Pilot ports are optional. See options on next page.

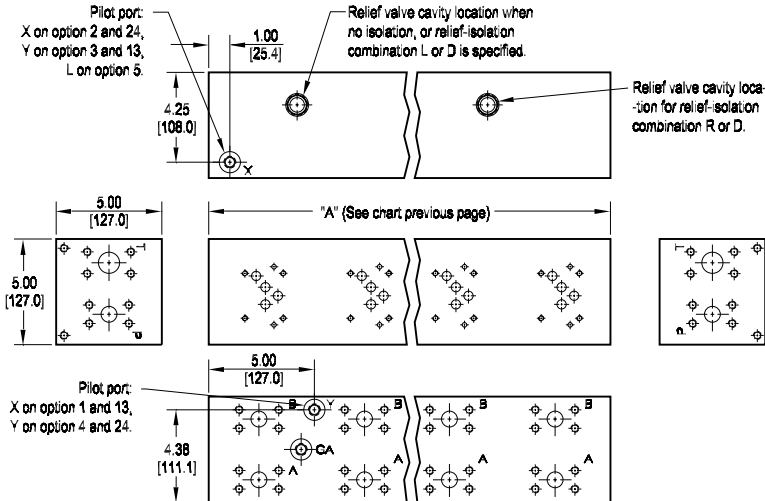
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Ordering Information

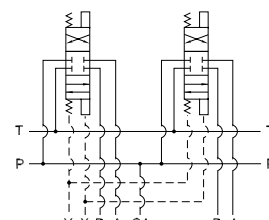
Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern D05 ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	Circuit HP Parallel Circuit High Flow	No. of Stations Aluminum 01...09 Available with spacing code 5 Ductile Iron 01...08 Available with spacing code 5	Valve Spacing 5 5.00 inch 127.0 mm	Port Threads F CODE 61 4-Bolt Flange SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	Options See next page for available options and ordering codes.	Options See next page for available options and ordering codes.

Options - D05 High Flow Parallel Manifold Flange Ports

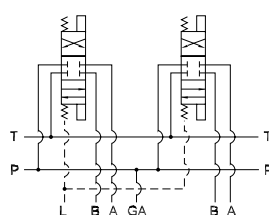
Contact Daman or consult web
CADalog for cavity locations if critical.



Parallel Circuit with X & Y



Parallel Circuit with L



ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

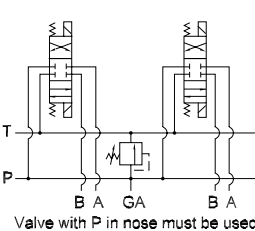
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 03	03-09
C	03 & 04	04-09
D	04 & 05	05-09
E	05 & 06	06-09
F	06 & 07	07-09
G	07 & 08	08-09

* Stations are numbered left to right.

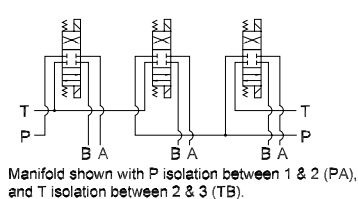
NOTES:

- 1) The GA port is not available on a (1) station manifold.
- 2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

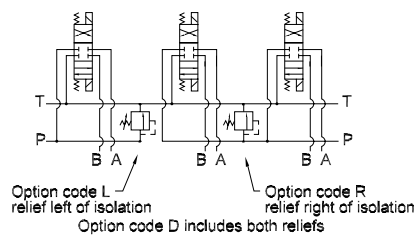
Parallel Circuit with Relief



Parallel Circuit with Isolations



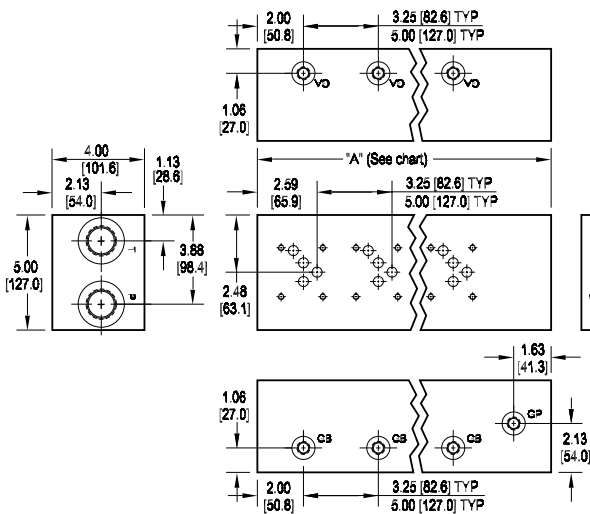
Relief / Isolation Combination



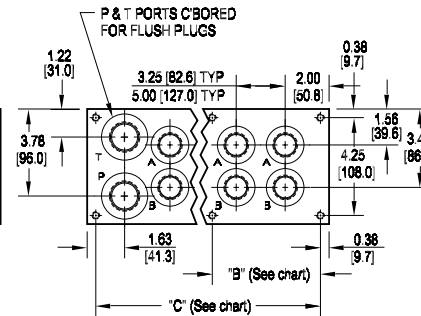
Ordering Information

...		Thread Type	Pilot Ports	Relief Cavity	Pressure Isolation	Tank Isolation	Relief & Isolation																																																						
		<table><tr><th colspan="2">Thread Type</th></tr><tr><td>Omit</td><td>Inch threads / ports</td></tr><tr><td>M</td><td>Metric threads / ports</td></tr></table>	Thread Type		Omit	Inch threads / ports	M	Metric threads / ports	<table><tr><th colspan="2">Pilot Ports</th></tr><tr><td colspan="2">Omit if pilot ports not required</td></tr><tr><td>1</td><td>X port (USA std) NFFPA T3.5.1-D05 Alt-B</td></tr><tr><td>3</td><td>Y port (USA std) NFFPA T3.5.1-D05 Alt-B</td></tr><tr><td>13</td><td>X & Y ports (USA std) NFFPA T3.5.1-D05 Alt-B</td></tr><tr><td>2</td><td>X port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A</td></tr><tr><td>4</td><td>Y port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A</td></tr><tr><td>24</td><td>X & Y ports ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A</td></tr><tr><td>5</td><td>L ports Proportional valves</td></tr></table> Pilot ports available from 01-08 stations	Pilot Ports		Omit if pilot ports not required		1	X port (USA std) NFFPA T3.5.1-D05 Alt-B	3	Y port (USA std) NFFPA T3.5.1-D05 Alt-B	13	X & Y ports (USA std) NFFPA T3.5.1-D05 Alt-B	2	X port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A	4	Y port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A	24	X & Y ports ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A	5	L ports Proportional valves	<table><tr><th colspan="2">Relief Cavity</th></tr><tr><td colspan="2">Omit if relief not required</td></tr><tr><td>C</td><td>Common cavity C-16-2 (P in nose)</td></tr><tr><td>S</td><td>Sun Cavity T-3A (P in nose) See Tech Info for valves.</td></tr></table>	Relief Cavity		Omit if relief not required		C	Common cavity C-16-2 (P in nose)	S	Sun Cavity T-3A (P in nose) See Tech Info for valves.	<table><tr><th colspan="2">Pressure Isolation</th></tr><tr><td colspan="2">Omit if P isolation not required</td></tr><tr><td>PA...PG</td><td>Available with spacing code 5</td></tr></table>	Pressure Isolation		Omit if P isolation not required		PA...PG	Available with spacing code 5	<table><tr><th colspan="2">Tank Isolation</th></tr><tr><td colspan="2">Omit if T isolation not required</td></tr><tr><td>TA...TG</td><td>Available with spacing code 5</td></tr></table>	Tank Isolation		Omit if T isolation not required		TA...TG	Available with spacing code 5	<table><tr><th colspan="2">Relief / Isolation Combination</th></tr><tr><td colspan="2">Specify when using both relief and isolation options.</td></tr><tr><td>L</td><td>Relief cavity is located left of the isolation.</td></tr><tr><td>R</td><td>Relief cavity is located right of the isolation.</td></tr><tr><td>D</td><td>Two relief cavities, one each side of isolation.</td></tr></table>	Relief / Isolation Combination		Specify when using both relief and isolation options.		L	Relief cavity is located left of the isolation.	R	Relief cavity is located right of the isolation.	D	Two relief cavities, one each side of isolation.
Thread Type																																																													
Omit	Inch threads / ports																																																												
M	Metric threads / ports																																																												
Pilot Ports																																																													
Omit if pilot ports not required																																																													
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3	Y port (USA std) NFFPA T3.5.1-D05 Alt-B																																																												
13	X & Y ports (USA std) NFFPA T3.5.1-D05 Alt-B																																																												
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24	X & Y ports ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A																																																												
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D05 High Flow Bottom Ported Manifold

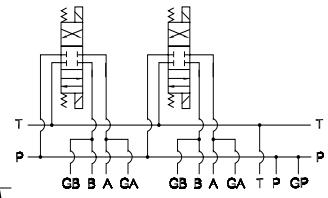


Mounting hardware is NOT supplied.

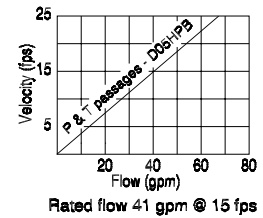


Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.63 [16] DP	0.38-16 UNC x 1.00 [25.4] DP
B, M, T	M6 ISO 6H x 0.63 [16] DP	M10 ISO 6H x 1.00 [25.4] DP

Parallel Circuit



Flow Curve



No. of stations	01	02	03	04	05	06	07	08	09	10	No. of stations	02	03	04	05	06
"A" length (code 3 spa.) inch [mm]	5.75 [146.1]	9.00 [228.6]	12.25 [311.2]	15.50 [393.7]	18.75 [476.3]	22.00 [558.8]	25.25 [641.4]	28.50 [723.9]	31.75 [806.5]	35.00 [889.0]	"A" length (code 5 spa.) inch [mm]	10.75 [273.1]	15.75 [400.1]	20.75 [527.1]	25.75 [654.1]	30.75 [781.1]
"B" dim (code 3 spa.) inch [mm]	--	--	--	--	--	9.75 [247.7]	13.00 [330.2]	13.00 [330.2]	16.25 [412.8]	16.25 [412.8]	"B" dim (code 5 spa.) inch [mm]	--	--	9.38 [238.1]	9.38 [238.1]	14.38 [365.1]
"C" dim (code 3 spa.) inch [mm]	5.00 [127.0]	8.25 [209.6]	11.50 [292.1]	14.75 [374.7]	18.00 [457.2]	21.25 [539.8]	24.50 [622.3]	27.75 [704.9]	31.00 [787.4]	34.25 [870.0]	"C" dim (code 5 spa.) inch [mm]	10.00 [254.0]	15.00 [381.0]	20.00 [508.0]	25.00 [635.0]	30.00 [762.0]
apx. weight alum lb [kg]	12 [5]	18 [8]	25 [11]	31 [14]	38 [17]	44 [20]	51 [23]	57 [26]	64 [29]	70 [32]	apx. weight alum lb [kg]	22 [10]	32 [14]	42 [19]	52 [23]	62 [28]
apx. weight iron lb [kg]	30 [14]	47 [21]	64 [29]	81 [37]	98 [44]	114 [52]	131 [60]	148 [67]	165 [75]	182 [83]	apx. weight iron lb [kg]	56 [25]	82 [37]	108 [49]	134 [61]	160 [73]

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
----------	---------------	---------	-----------------	---------------	--------------	---	---------

Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern	
D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit	
HPB	Parallel Circuit High Flow Bottom Ported

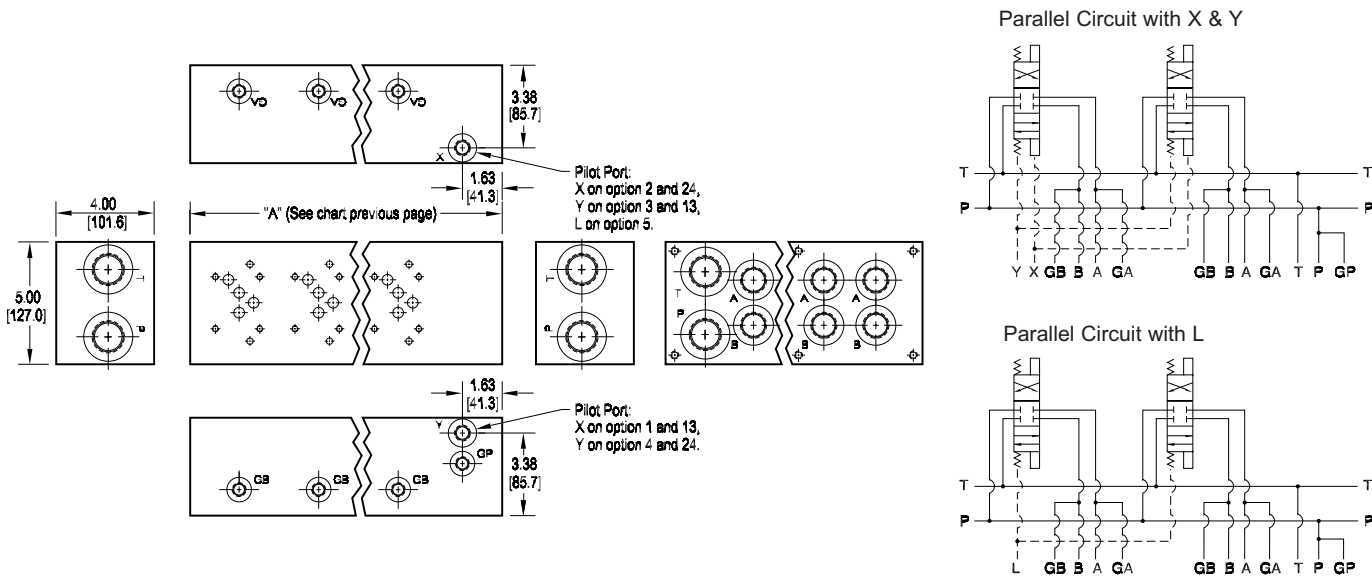
No. of Stations	
Aluminum	
01...10	Available with spacing code 3
02...06	Available with spacing code 5
Ductile Iron	
01...10	Available with spacing code 3
02...06	Available with spacing code 5

Valve Spacing	
3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Port Threads		P & T	A & B	X,Y,L optional	G*
P	NPTF • ANSI B1.20.3	1.00	0.75	0.38	0.25
S	SAE • ISO 11926	-16	-12	-6	-4
B	BSPP • ISO 1179	1.00	0.75	0.38	0.25
M	ISO • ISO 6149	M33	M27	M14	M10
T	BSPT • ISO 7	1.00	0.75	0.38	0.25

Options	
See next page for available options and ordering codes.	

Options - D05 High Flow Parallel Manifold Bottom Ported

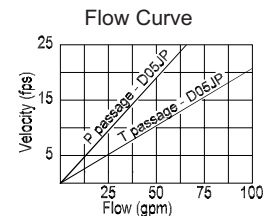
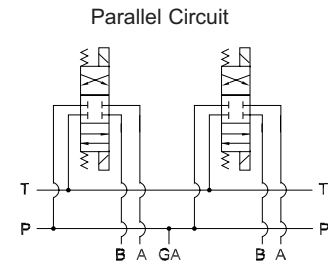
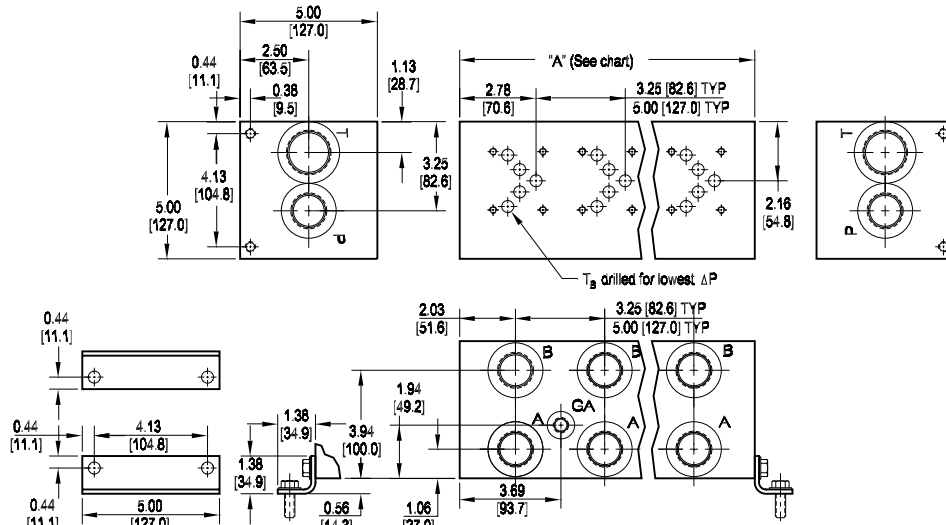


Ordering Information



Pilot Ports	
Omit if pilot ports not required	
1	X port (USA std) NFFPA T3.5.1-D05 Alt-B
3	Y port (USA std) NFFPA T3.5.1-D05 Alt-B
13	X & Y ports (USA std) NFFPA T3.5.1-D05 Alt-B
2	X port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A
4	Y port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A
24	X & Y ports ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A
5	L ports Proportional valves

D05 Extra High Flow Parallel Circuit Manifold



Rated flow Pressure 41 gpm @ 15 fps
Rated flow Tank 72 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08	09	10
"A" length (code 3 spa.) inch [mm]	4.25 [108.0]	7.50 [190.5]	10.75 [273.1]	14.00 [355.6]	17.25 [438.2]	20.50 [520.7]	23.75 [603.3]	27.00 [685.8]	30.25 [768.4]	33.50 [850.9]
apx. weight alum lb [kg]	10 [5]	18 [8]	26 [12]	35 [16]	43 [20]	51 [23]	59 [27]	67 [30]	75 [34]	83 [38]
apx. weight iron lb [kg]	27 [12]	48 [22]	69 [31]	91 [41]	112 [51]	133 [60]	154 [70]	175 [79]	196 [89]	217 [99]
"A" length (code 5 spa.) inch [mm]	--	9.25 [235.0]	14.25 [362.0]	19.25 [489.0]	24.25 [616.0]	29.25 [743.0]				
apx. weight alum lb [kg]	--	23 [10]	35 [16]	48 [22]	60 [27]	73 [33]				
apx. weight iron lb [kg]	--	60 [27.2]	92 [41.8]	125 [56.8]	157 [71.3]	190 [86.3]				

* Length of 01 station with relief cavity is 5.50 [139.7]. Gauge port not available on 01 station.

All mounting hardware is supplied.
See page 63 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.75 [19] DP	0.38-16 UNC x 0.75 [19] DP
B, M, T	M6 ISO 6H x 0.75 [19] DP	M10 ISO 6H x 0.75 [19] DP

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
----------	---------------	---------	-----------------	---------------	--------------	---	---------

Material
A Aluminum - 6061-T6 3000† psi • 20.7 MPa
D Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern
D05 ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit
JP Parallel Circuit Extra High Flow

No. of Stations
Aluminum
01...10 Available with spacing code 3
02...06 Available with spacing code 5
Ductile Iron
01...10 Available with spacing code 3
02...06 Available with spacing code 5

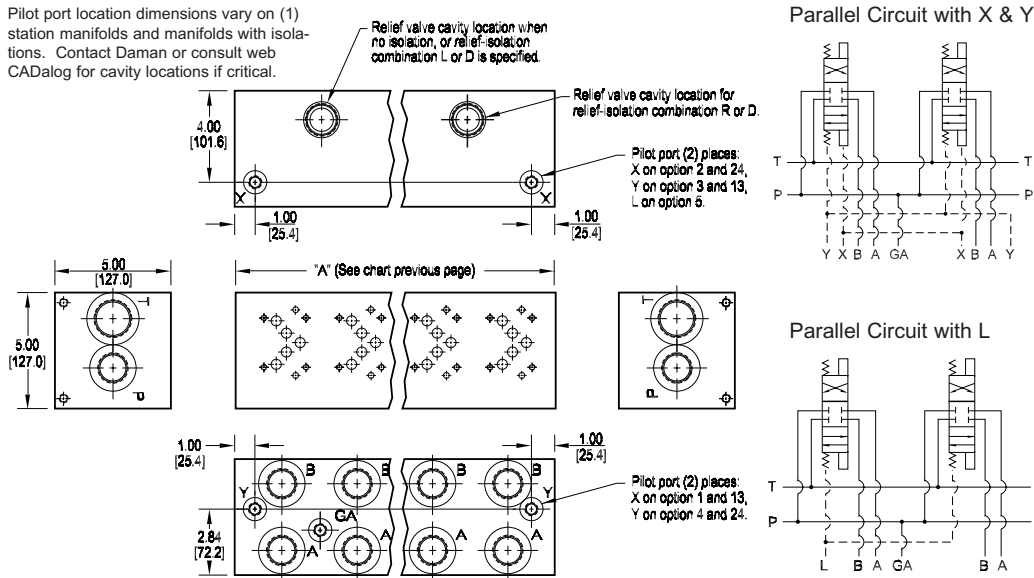
Valve Spacing
3 3.25 inch 82.6 mm
5 5.00 inch 127.0 mm

Port Threads	P,A,B	T	X,Y,L optional	GA
P NPTF • ANSI B1.20.3	1.00	1.25	0.38	0.25
S SAE • ISO 11926	-16	-20	-6	-6
B BSPP • ISO 1179	1.00	1.25	0.38	none
M ISO • ISO 6149	M33	M42	M14	none
T BSPT • ISO 7	1.00	1.25	0.38	none

Options
See next page for available options and ordering codes.

Options - D05 Extra High Flow Parallel Manifold

Pilot port location dimensions vary on (1) station manifolds and manifolds with isolations. Contact Daman or consult web CADalog for cavity locations if critical.



ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
3.25 [82.6] spacing		
A	01 & 02	02-10
B	02 & 03	03-10
C	03 & 04	04-10
D	04 & 05	05-10
E	05 & 06	06-10
F	06 & 07	07-10
G	07 & 08	08-10
H	08 & 09	09-10
J	09 & 10	10
5.00 [127.0] spacing		
A	01 & 02	02-06
B	02 & 03	03-06
C	03 & 04	04-06
D	04 & 05	05-06
E	05 & 06	06

* Stations are numbered left to right.

NOTES:

- 1) The GA port is not available on a (1) station manifold.
- 2) The GA port is not available when a pressure isolation is located between stations 1 & 2.
- 3) Some combinations of relief cavities and isolations are not possible. Consult factory to determine availability.

Ordering Information

...	Pilot Ports	Relief Cavity	Pressure Isolation	Tank Isolation	Relief & Isolation
-----	-------------	---------------	--------------------	----------------	--------------------

Pilot Ports	
Omit if pilot ports not required	
1	X port (USA std) NFFPA T3.5.1-D05 Alt-B
3	Y port (USA std) NFFPA T3.5.1-D05 Alt-B
13	X & Y ports (USA std) NFFPA T3.5.1-D05 Alt-B
2	X port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A
4	Y port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A
24	X & Y ports ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A
5	L ports Proportional valves

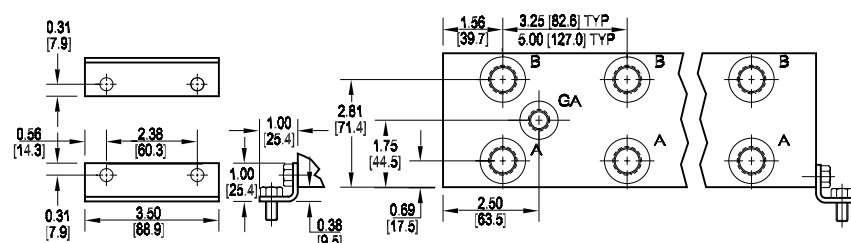
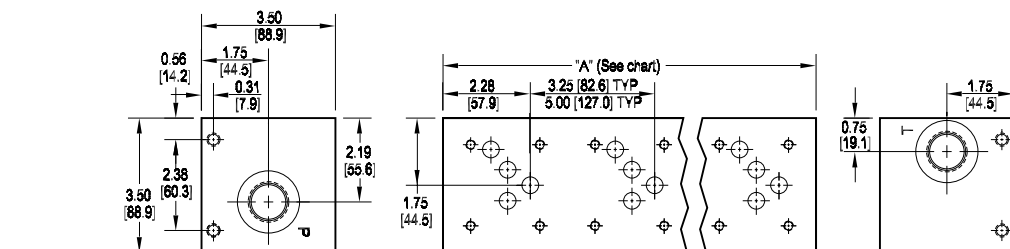
Relief Cavity	
Omit if relief not required	
C	Common cavity C-16-2 (P in nose)
S	Sun Cavity T-16A (P in nose) See Tech Info for valves.

Tank Isolation	
Omit if T isolation not required	
TA...TJ	Available with spacing code 3
TA...TE	Available with spacing code 5

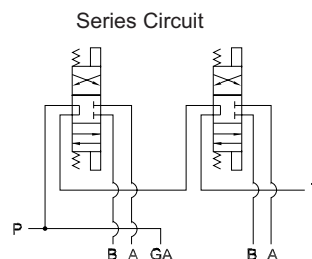
Pressure Isolation	
Omit if P isolation not required	
PA...PJ	Available with spacing code 3
PA...PE	Available with spacing code 5

Relief / Isolation Combination	
Specify when using both relief and isolation options.	
L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

D05 Standard Flow Series Circuit Manifold



No. of stations	02	03	04
"A" length (code 3 spa.) inch [mm]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]
apx. weight alum lb [kg]	8 [4]	11 [5]	14 [7]
apx. weight iron lb [kg]	17 [8]	26 [12]	34 [15]
"A" length (code 5 spa.) inch [mm]	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]
apx. weight alum lb [kg]	9 [4]	15 [7]	20 [9]
apx. weight iron lb [kg]	22 [10]	36 [16]	49 [22]



All mounting hardware is supplied.
See page 62 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.75 [19] DP	0.31-18 UNC x 0.44 [11.1] DP
B, M, T	M6 ISO 6H x 0.75 [19] DP	M8 ISO 6H x 0.44 [11.1] DP

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
----------	---------------	---------	-----------------	---------------	--------------	---	---------

Material
A Aluminum - 6061-T6 3000† psi • 20.7 MPa
D Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern
D05 ISO-4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit
S Series Circuit Standard Flow

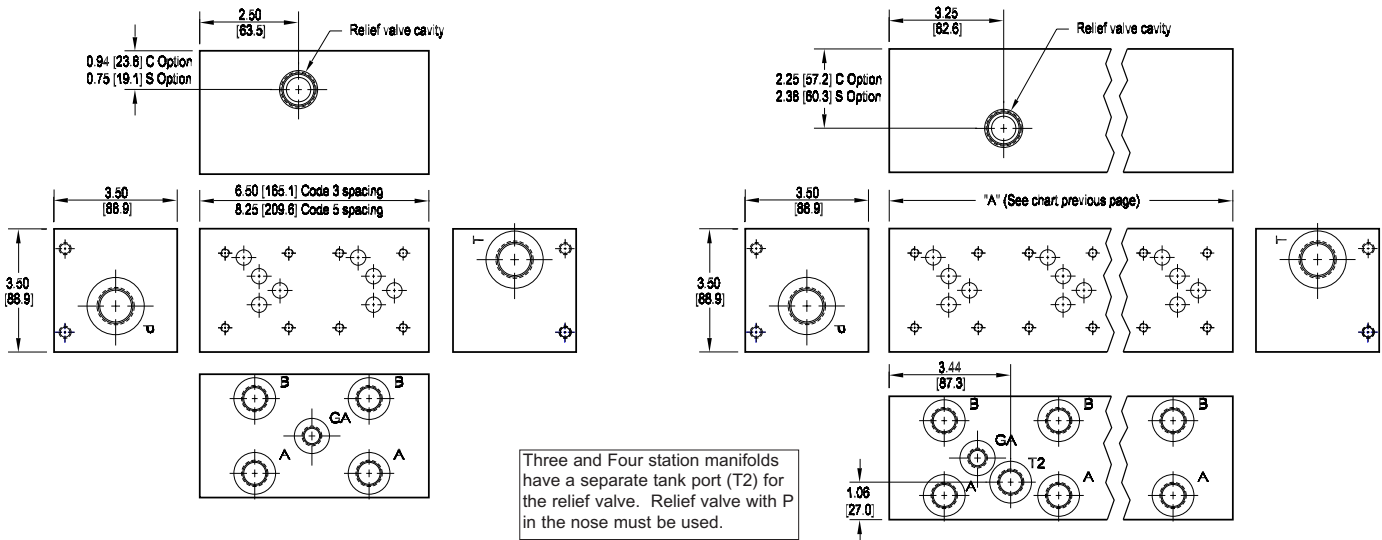
No. of Stations
Aluminum
02...04 Available with spacing code 3
02...04 Available with spacing code 5
Ductile Iron
02...04 Available with spacing code 3
02...04 Available with spacing code 5

Valve Spacing
3 3.25 inch 82.6 mm
5 5.00 inch 127.0 mm

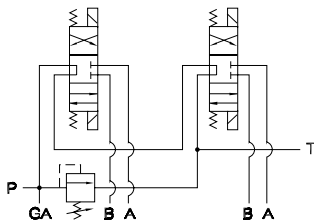
Port Threads	P & T	A & B	GA
P NPTF • ANSI B1.20.3	0.75	0.50	0.25
S SAE • ISO 11926	-12	-8	-6
B BSPP • ISO 1179	0.75	0.50	none
M ISO • ISO 6149	M27	M18	none
T BSPT • ISO 7	0.75	0.50	none

Options
See next page for available options and ordering codes.

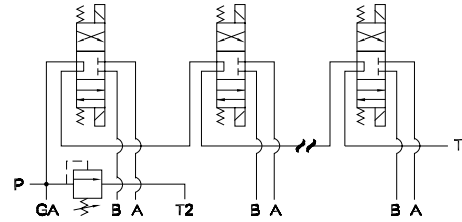
Options - D05 Standard Flow Series Manifold



Series Circuit with Relief - (2) station



Series Circuit with Relief - (3) or (4) station



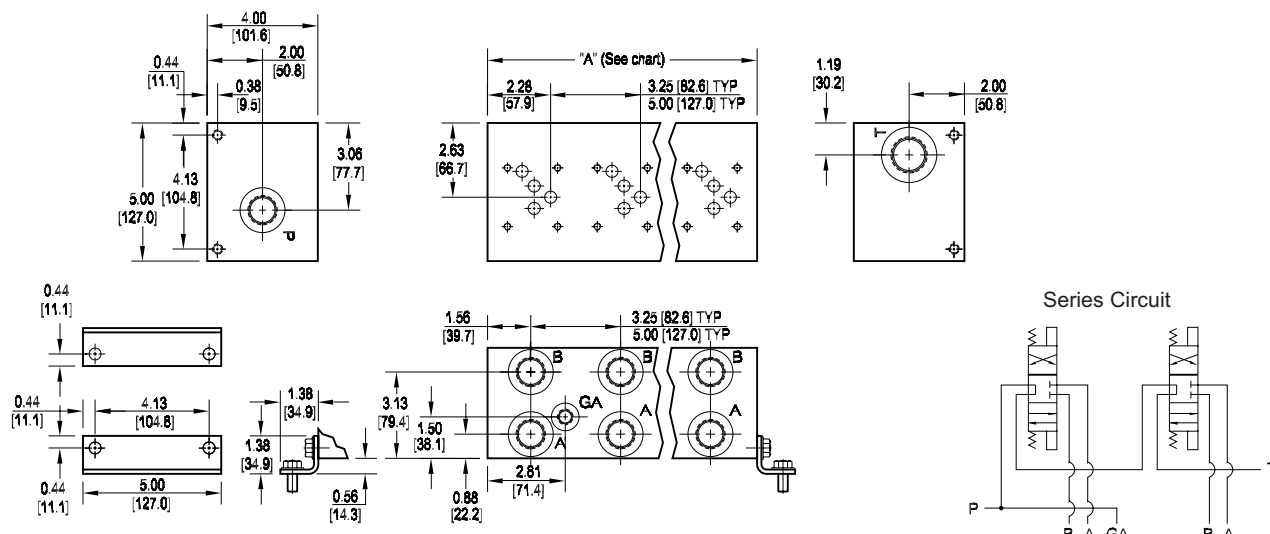
Ordering Information



Relief Cavity	
Omit if relief not required.	
C	Common cavity C-10-2 (P in nose)
S	Sun Cavity T-3A (P in nose) See Tech Info for valves.

Port Code (ref.)	T2 Port Size
3 and 4 Station Manifold	
P	0.50 NPTF • ANSI B1.20.3
S	-8 SAE • ISO 11926
B	0.50 BSPP • ISO 1179
M	M18 ISO • ISO 6149
T	0.50 BSPT • ISO 7

D05 High Flow Series Circuit Manifold



No. of stations	02	03	04
"A" length (code 3 spa.) inch [mm]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]
apx. weight alum lb [kg]	12 [5]	17 [8]	22 [10]
apx. weight iron lb [kg]	38 [17]	57 [26]	75 [34]
"A" length (code 5 spa.) inch [mm]	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]
apx. weight alum lb [kg]	18 [8]	26 [12]	33 [15]
apx. weight iron lb [kg]	48 [22]	77 [35]	106 [48]

All mounting hardware is supplied.
See page 62 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.75 [19] DP	0.38-16 UNC x 0.75 [19] DP
B, M, T	M6 ISO 6H x 0.75 [19] DP	M10 ISO 6H x 0.75 [19] DP

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
----------	---------------	---------	-----------------	---------------	--------------	---	---------

Material	
A	Aluminum - 6061-T6 3000 [†] psi • 20.7 MPa
D	Ductile Iron - D4512 5000 [†] psi • 34.5 MPa

[†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern	
D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit	
HS	Series Circuit High Flow

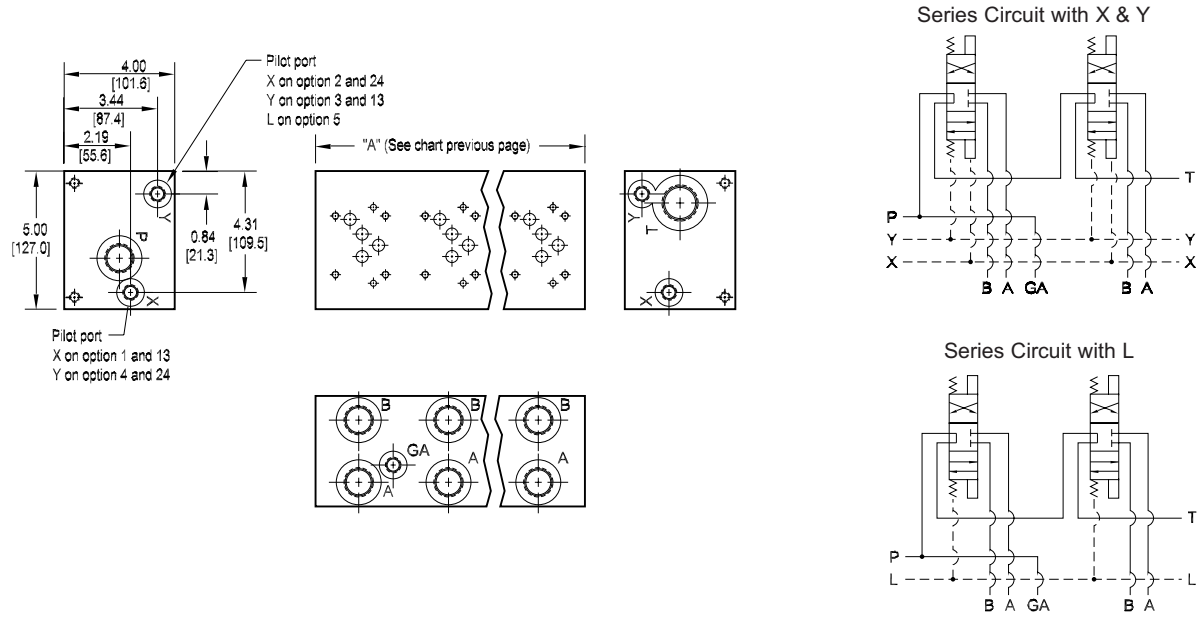
No. of Stations	
Aluminum	
02...04	Available with spacing code 3
02...04	Available with spacing code 5
Ductile Iron	
02...04	Available with spacing code 3
02...04	Available with spacing code 5

Valve Spacing	
3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Port Threads		P,A,B	T	X,Y,L optional	GA
P	NPTF • ANSI B1.20.3	0.75	1.00	0.38	0.25
S	SAE • ISO 11926	-12	-16	-6	-6
B	BSPP • ISO 1179	0.75	1.00	0.38	none
M	ISO • ISO 6149	M27	M33	M14	none
T	BSPT • ISO 7	0.75	1.00	0.38	none

Options	
See next page for available options and ordering codes.	

Options - D05 High Flow Series Manifold

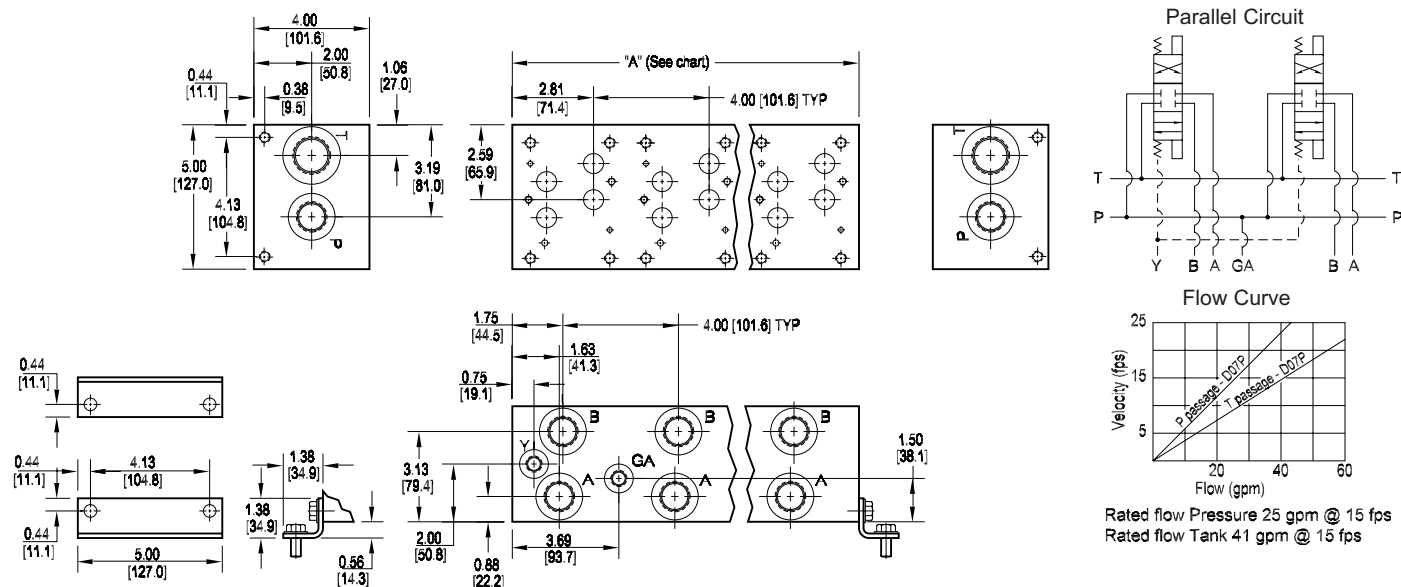


Ordering Information



Pilot Ports	
Omit if pilot ports not required	
1	X port (USA std) NFFPA T3.5.1-D05 Alt-B
3	Y port (USA std) NFFPA T3.5.1-D05 Alt-B
13	X & Y ports (USA std) NFFPA T3.5.1-D05 Alt-B
2	X port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A
4	Y port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A
24	X & Y ports ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A
5	L ports Proportional valves

D07 Standard Flow Parallel Circuit Manifold



All mounting hardware is supplied.
See page 63 for itemized list.

No. of stations	* 01	02	03	04	05	06	07	08
"A" length (code 4 spa.) inch [mm]	4.00 [101.6]	8.00 [203.2]	12.00 [304.8]	16.00 [406.4]	20.00 [508.0]	24.00 [609.6]	28.00 [711.2]	32.00 [812.8]
apx. weight alum lb [kg]	6 [3]	14 [6]	22 [10]	30 [14]	38 [17]	46 [21]	52 [24]	60 [27]
apx. weight iron lb [kg]	24 [11]	46 [21]	69 [31]	90 [41]	114 [52]	135 [61]	158 [72]	180 [82]

Port code	Valve mtg.	Manifold mtg.
P, S	0.38-16 UNC x 1.00 [25] DP 0.25-20 UNC x 0.75 [19] DP	0.38-16 UNC x 0.75 [19] DP
B, M, T	M10 ISO 6H x 1.00 [25] DP M6 ISO 6H x 0.75 [19] DP	M10 ISO 6H x 0.75 [19] DP

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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* Length of 01 sta. with "C" relief cavity 5.50 [139.7]. Gauge port not available on 01 station.

Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
----------	---------------	---------	-----------------	---------------	--------------	---	---------

Material
A Aluminum - 6061-T6 3000† psi • 20.7 MPa
D Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern
D07 ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

Circuit
P Parallel Manifold Standard Flow

No. of Stations
Aluminum
01...08 Available with spacing code 4
Ductile Iron
01...08 Available with spacing code 4

Valve Spacing
4 4.00 inch 101.6 mm

Port Threads	P,A,B	T	Y	X optional	GA
P NPTF • ANSI B1.20.3	0.75	1.00	0.38	0.25	0.25
S SAE • ISO 11926	-12	-16	-6	-4	-6
B BSPP • ISO 1179	0.75	1.00	0.38	0.25	none
M ISO • ISO 6149	M27	M33	M14	M10	none
T BSPT • ISO 7	0.75	1.00	0.38	0.25	none

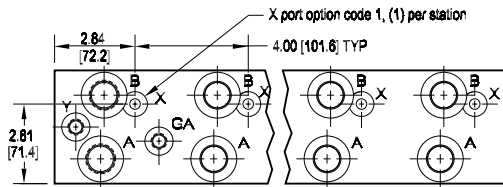
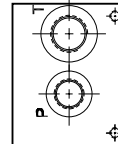
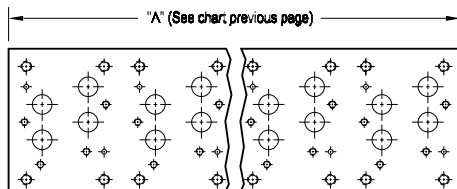
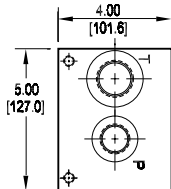
Options
See next page for available options and ordering codes.

Options - D07 Standard Flow Parallel Manifold

Contact Daman or consult web
CADalog for cavity locations if critical.

Relief valve cavity location when
no isolation, or relief-isolation
combination L or D is specified.

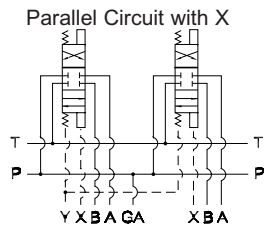
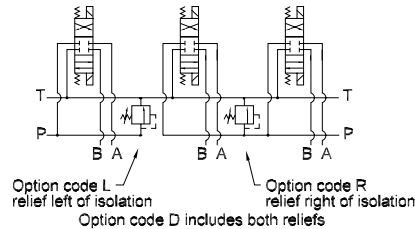
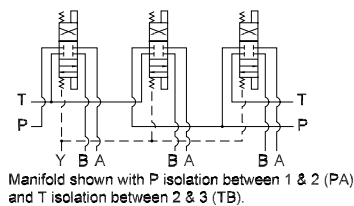
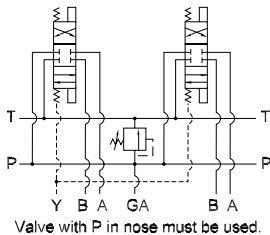
Relief cavity location for
relief-isolation combination R or D.



Parallel Circuit with Relief

Parallel Circuit with Isolations

Relief / Isolation Combination



ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 03	03-08
C	03 & 04	04-08
D	04 & 05	05-08
E	05 & 06	06-08
F	06 & 07	07-08
G	07 & 08	08

* Stations are numbered left to right.

NOTES:

- 1) The GA port is not available on a (1) station manifold.
- 2) The GA port is not available when a pressure isolation is located between stations 1 & 2.
- 3) Some combinations of relief cavities and isolations are not possible. Consult factory to determine availability.

Ordering Information

Pilot Ports	Relief Cavity	Pressure Isolation	Tank Isolation	Relief & Isolation
-------------	---------------	--------------------	----------------	--------------------

Pilot Ports
Omit if X ports not required
1 X port ISO 4401-07-06 NFPA T3.5.1-D07

Relief Cavity
Omit if relief not required
C Common cavity C-10-2 (P in nose)
S Sun Cavity T-3A (P in nose) See Tech Info for valves.

Tank Isolation
Omit if T isolation not required
TA...TG Available with spacing code 4

Relief / Isolation Combination
Specify when using both relief and isolation options.
L Relief cavity is located left of the isolation.
R Relief cavity is located right of the isolation.
D Two relief cavities, one each side of isolation.

Pressure Isolation
Omit if P isolation not required
PA...PG Available with spacing code 4

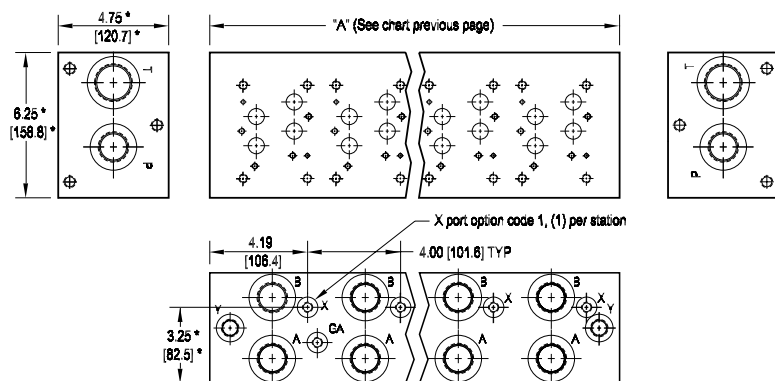
Options - D07 High Flow Parallel Manifold

Contact Daman or consult web CADalog for cavity locations if critical.

Relief valve cavity location when no isolation, or relief-isolation combination L or D is specified.

Relief cavity location for relief-isolation combination R or D.

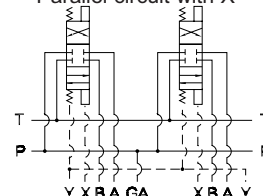
* Dimensions vary for manifolds with isolations.



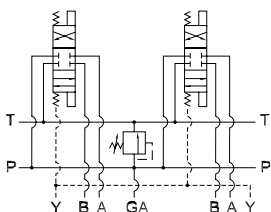
ISOLATIONS		
Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.		
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 03	03-08
C	03 & 04	04-08
D	04 & 05	05-08
E	05 & 06	06-08
F	06 & 07	07-08
G	07 & 08	08

* Stations are numbered left to right.

Parallel circuit with X

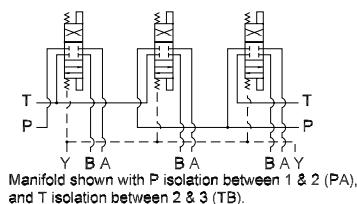


Parallel Circuit with Relief

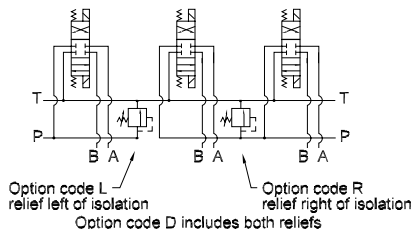


Valve with P in nose must be used.

Parallel Circuit with Isolations



Relief / Isolation Combination



NOTES:

- 1) The GA port is not available on a (1) station manifold.
- 2) The GA port is not available when a pressure isolation is located between stations 1 & 2.
- 3) Some combinations of relief cavities and isolations are not possible. Consult factory to determine availability.

Ordering Information

Pilot Ports	Relief Cavity	Pressure Isolation	Tank Isolation	Relief & Isolation
-------------	---------------	--------------------	----------------	--------------------

Pilot Ports
Omit if X ports not required.
1 X port ISO 4401-07-06 NFPA T3.5.1-D07

Relief Cavity
Omit if relief not required
C Common cavity C-16-2 (P in nose)
S Sun Cavity T-16A (P in nose) See Tech Info for valves.

Tank Isolation
Omit if T isolation not required
TA...TG Available with spacing code 4

Relief / Isolation Combination
Specify when using both relief and isolation options.
L Relief cavity is located left of the isolation.
R Relief cavity is located right of the isolation.
D Two relief cavities, one each side of isolation.

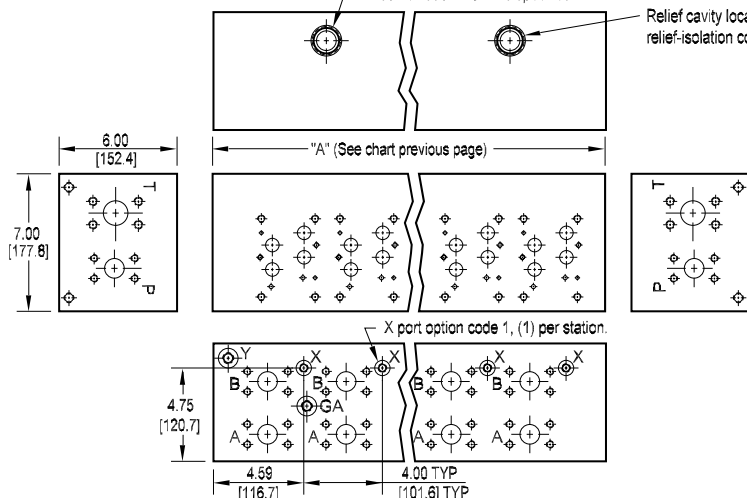
Pressure Isolation
Omit if P isolation not required
PA...PG Available with spacing code 4

Options - D07 High Flow Parallel Manifold Flange Ports

Contact Daman or consult web
CADalog for cavity locations if critical

- Relief cavity location when no isolation, or relief-isolation combination L or D is specified.

Relief cavity location for relief-isolation combination R or D



ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

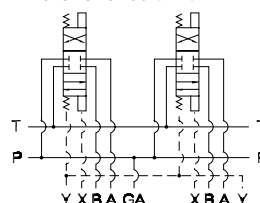
Ordering code letter:	* Isolation is between stations:	Available # of stations
A	01 & 02	02-06
B	02 & 03	03-06
C	03 & 04	04-06
D	04 & 05	05-06
E	05 & 06	06

* Stations are numbered left to right.

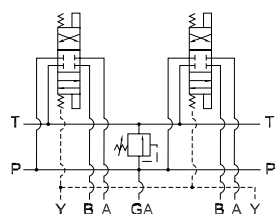
NOTES:

- 1) The GA port is not available on a (1) station manifold.
- 2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Parallel circuit with X

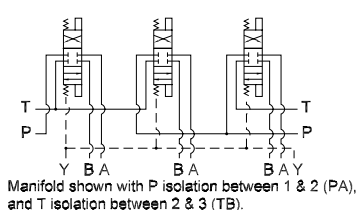


Parallel Circuit with Relief

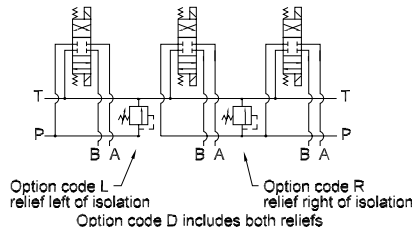


Valve with P in nose must be used

Parallel Circuit with Isolations



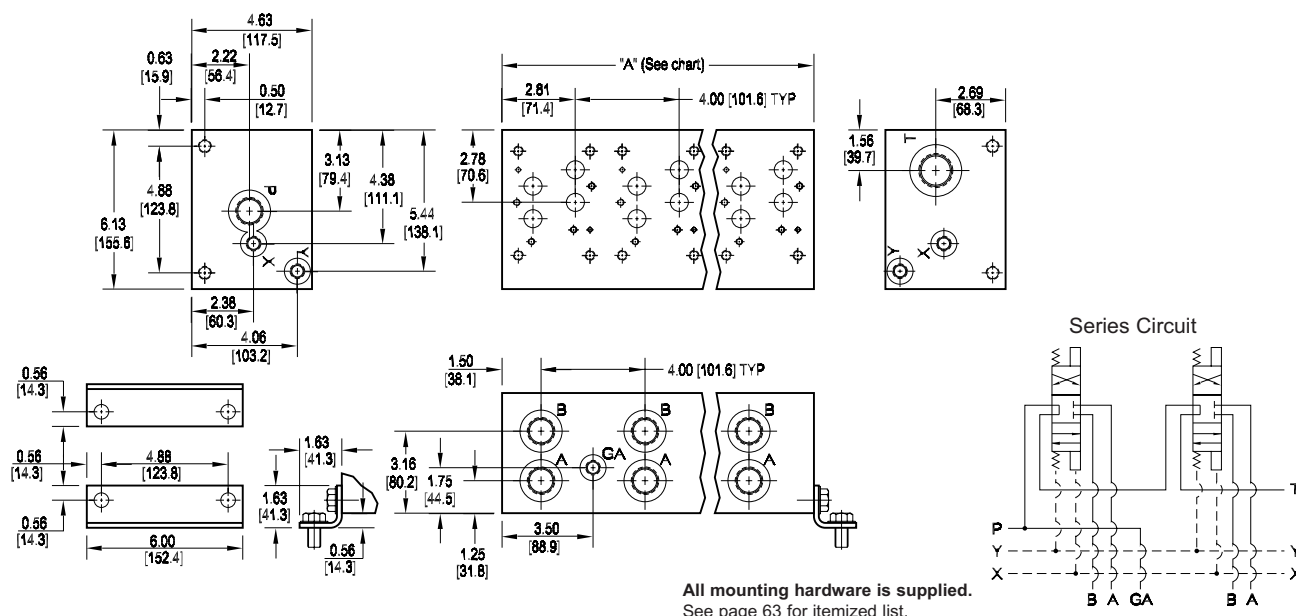
Relief / Isolation Combination



Ordering Information

... /	Thread Type	Pilot Ports	Relief Cavity	Pressure Isolation	Tank Isolation	Relief & Isolation																						
	<table><tr><th colspan="2">Thread Type</th></tr><tr><td>Omit</td><td>Inch threads / ports</td></tr><tr><td>M</td><td>Metric threads / ports</td></tr></table>	Thread Type		Omit	Inch threads / ports	M	Metric threads / ports		<table><tr><th colspan="2">Relief Cavity</th></tr><tr><td colspan="2">Omit if relief not required</td></tr><tr><td>C</td><td>Common cavity C-16-2 (P in nose)</td></tr><tr><td>S</td><td>Sun Cavity T-16A (P in nose) See Tech Info for valves.</td></tr></table>	Relief Cavity		Omit if relief not required		C	Common cavity C-16-2 (P in nose)	S	Sun Cavity T-16A (P in nose) See Tech Info for valves.		<table><tr><th colspan="2">Tank Isolation</th></tr><tr><td colspan="2">Omit if T isolation not required</td></tr><tr><td>TA...TE</td><td>Available with spacing code 4</td></tr></table>	Tank Isolation		Omit if T isolation not required		TA...TE	Available with spacing code 4			
Thread Type																												
Omit	Inch threads / ports																											
M	Metric threads / ports																											
Relief Cavity																												
Omit if relief not required																												
C	Common cavity C-16-2 (P in nose)																											
S	Sun Cavity T-16A (P in nose) See Tech Info for valves.																											
Tank Isolation																												
Omit if T isolation not required																												
TA...TE	Available with spacing code 4																											
		<table><tr><th colspan="2">Pilot Ports</th></tr><tr><td colspan="2">Omit if X ports not required</td></tr><tr><td>1</td><td>X port ISO 4401-07-06 NFPA T3.5.1-D07</td></tr></table>	Pilot Ports		Omit if X ports not required		1	X port ISO 4401-07-06 NFPA T3.5.1-D07		<table><tr><th colspan="2">Pressure Isolation</th></tr><tr><td colspan="2">Omit if P isolation not required</td></tr><tr><td>PA...PE</td><td>Available with spacing code 4</td></tr></table>	Pressure Isolation		Omit if P isolation not required		PA...PE	Available with spacing code 4		<table><tr><th colspan="2">Relief / Isolation Combination</th></tr><tr><td colspan="2">Specify when using both relief and isolation options</td></tr><tr><td>L</td><td>Relief cavity is located left of the isolation.</td></tr><tr><td>R</td><td>Relief cavity is located right of the isolation.</td></tr><tr><td>D</td><td>Two relief cavities, one on each side of isolation</td></tr></table>	Relief / Isolation Combination		Specify when using both relief and isolation options		L	Relief cavity is located left of the isolation.	R	Relief cavity is located right of the isolation.	D	Two relief cavities, one on each side of isolation
Pilot Ports																												
Omit if X ports not required																												
1	X port ISO 4401-07-06 NFPA T3.5.1-D07																											
Pressure Isolation																												
Omit if P isolation not required																												
PA...PE	Available with spacing code 4																											
Relief / Isolation Combination																												
Specify when using both relief and isolation options																												
L	Relief cavity is located left of the isolation.																											
R	Relief cavity is located right of the isolation.																											
D	Two relief cavities, one on each side of isolation																											

D07 Series Circuit Manifold



All mounting hardware is supplied.
See page 63 for itemized list.

No. of stations	02	03	04
"A" length (code 4 spa.) inch [mm]	8.00 [203.2]	12.00 [304.8]	16.00 [406.4]
apx. weight alum lb [kg]	23 [10]	32 [15]	40 [18]
apx. weight iron lb [kg]	68 [31]	103 [47]	137 [62]

Port code	Valve mtg.	Manifold mtg.
P, S	0.38-16 UNC x 1.00 [25] DP 0.25-20 UNC x 0.75 [19] DP	0.50-13 UNC x 0.88 [22.3] DP
B, M, T	M10 ISO 6H x 1.00 [25] DP M6 ISO 6H x 0.75 [19] DP	M12 ISO 6H x 0.88 [22.3] DP

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
----------	---------------	---------	-----------------	---------------	--------------	---	---------

Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern	
D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

Circuit	
S	Series Circuit

No. of Stations	
Aluminum	
02...04	Available with spacing code 4
Ductile Iron	
02...04	Available with spacing code 4

Valve Spacing	
4	4.00 inch 101.6 mm

Port Threads		P,A,B	T	X & Y	GA
P	NPTF • ANSI B1.20.3	0.75	1.00	0.38	0.25
S	SAE • ISO 11926	-12	-16	-6	-6
B	BSPP • ISO 1179	0.75	1.00	0.38	none
M	ISO • ISO 6149	M27	M33	M14	none
T	BSPT • ISO 7	0.75	1.00	0.38	none

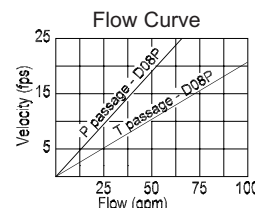
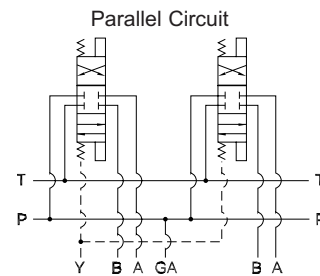
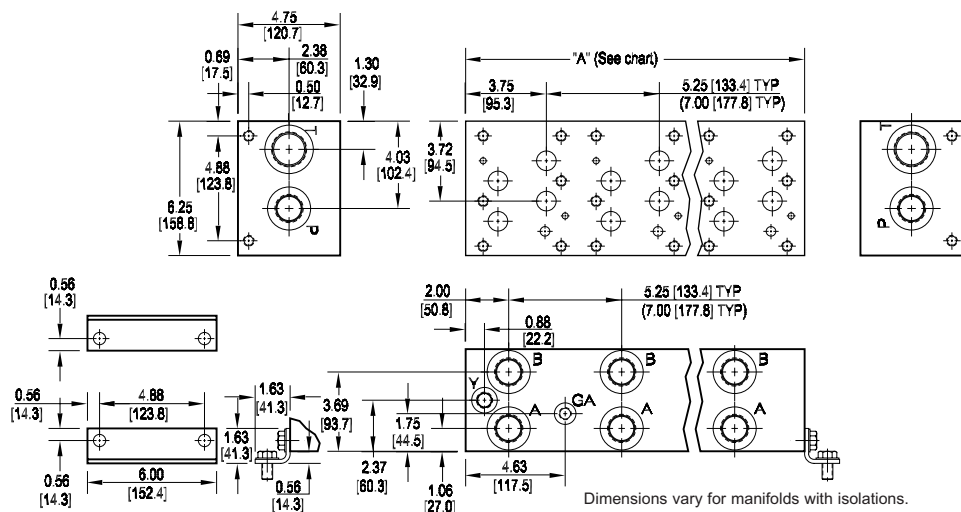
Options	
No options available.	



D08 Manifolds 

Technical Information	Header and Junction Blocks	DIN Cartridge Valve Bodies	Tapping Plates	Servo Valve Subplates	Subplates	Valve Adaptors	Cover Plates	Standard Manifolds	Custom Products
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D08 Standard Flow Parallel Manifold



Rated flow Pressure 41 gpm @ 15 fps
Rated flow Tank 72 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07
"A" length (code 5 spa.) inch [mm]	5.25 [133.4]	10.50 [266.7]	15.75 [400.1]	21.00 [533.4]	26.25 [666.8]	31.50 [800.1]	36.75 [933.5]
apx. weight alum lb [kg]	12 [5]	24 [11]	35 [16]	49 [22]	61 [28]	75 [34]	89 [40]
apx. weight iron lb [kg]	45 [20]	90 [41]	136 [62]	181 [82]	226 [103]	271 [123]	356 [162]
"A" length (code 7 spa.) inch [mm]	--	12.25 [311.2]	19.25 [489.0]	26.25 [666.8]	33.25 [844.6]	--	--
apx. weight alum lb [kg]	--	28 [13]	44 [20]	64 [29]	74 [34]	--	--
apx. weight iron lb [kg]	--	105 [48]	166 [75]	226 [103]	286 [130]	--	--

* Gauge port not available on 01 station.

All mounting hardware is supplied.
See page 63 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.50-13 UNC x 1.19 [30] DP	0.50-13 UNC x 0.88 [22.3] DP
B, M, T	M12 ISO 6H x 1.19 [30] DP	M12 ISO 6H x 0.88 [22.3] DP

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
----------	---------------	---------	-----------------	---------------	--------------	---	---------

Material
A Aluminum - 6061-T6 3000† psi • 20.7 MPa
D Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern
D08 ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Circuit
P Parallel Circuit Standard Flow

No. of Stations
Aluminum
01...07 Available with spacing code 5
02...05 Available with spacing code 7
Ductile Iron
01...07 Available with spacing code 5
02...05 Available with spacing code 7

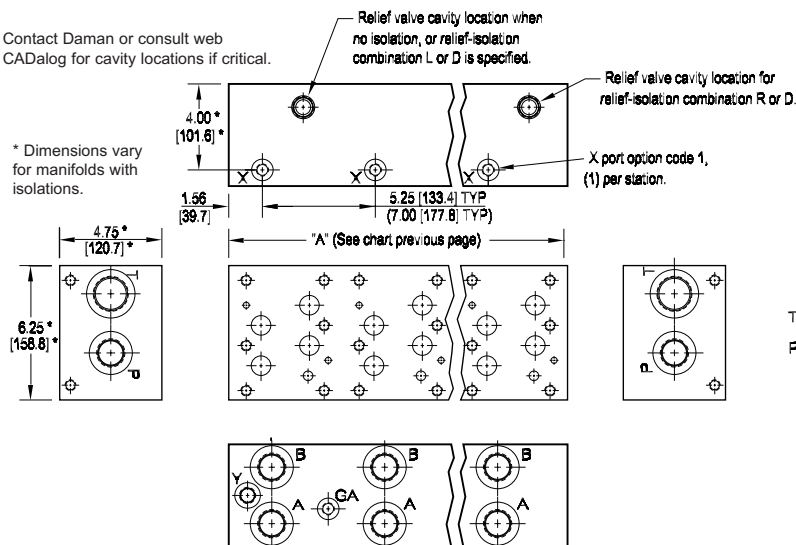
Valve Spacing
5 5.25 inch 133.4 mm
7 7.00 inch 177.8 mm

Port Threads	P,A,B	T	Y	X optional	GA
P NPTF • ANSI B1.20.3	1.00	1.25	0.38	0.25	0.25
S SAE • ISO 11926	-16	-20	-8	-4	-6
B BSPP • ISO 1179	1.00	1.25	0.38	0.25	none
M ISO • ISO 6149	M33	M42	M14	M10	none
T BSPT • ISO 7	1.00	1.25	0.38	0.25	none

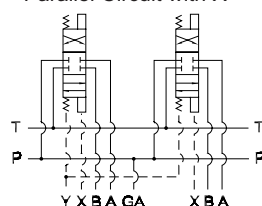
Options
See next page for available options and ordering codes.

Options - D08 Standard Flow Parallel Manifold

Contact Daman or consult web CADalog for cavity locations if critical.



Parallel Circuit with X



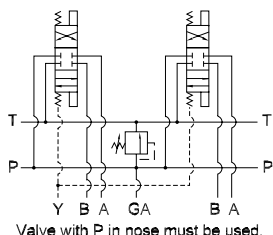
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

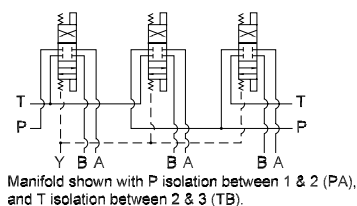
Ordering code letter:	* Isolation is between stations:	Available # of stations:
5.25 [133.4] spacing		
A	01 & 02	02-07
B	02 & 03	03-07
C	03 & 04	04-07
D	04 & 05	05-07
E	05 & 06	06-07
F	06 & 07	07
7.00 [177.8] spacing		
A	01 & 02	02-05
B	02 & 03	03-05
C	03 & 04	04-05
D	04 & 05	05

* Stations are numbered left to right.

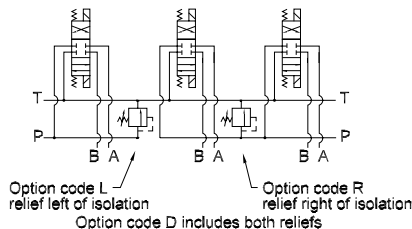
Parallel Circuit with Relief



Parallel Circuit with Isolations



Relief / Isolation Combination



NOTES:

- 1) The GA port is not available on a (1) station manifold.
- 2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Ordering Information

...	Pilot Ports	Relief Cavity	Pressure Isolation	Tank Isolation	Relief & Isolation
-----	-------------	---------------	--------------------	----------------	--------------------

Pilot Ports	
Omit if X ports not required	
1	X port ISO 4401-08-07 NFPA T3.5.1-D08

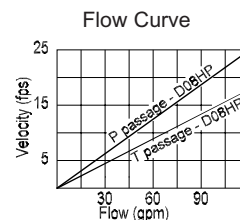
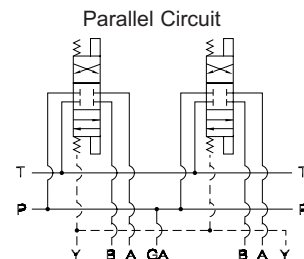
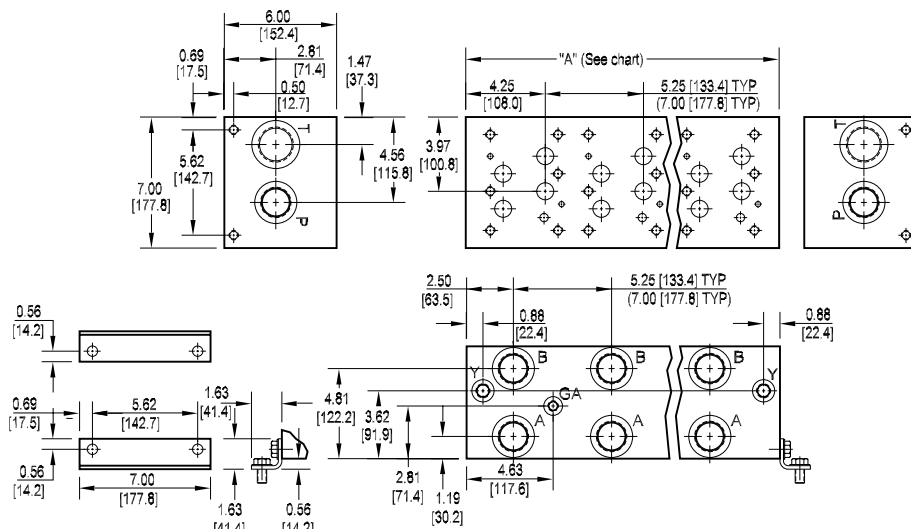
Relief Cavity	
Omit if relief not required	
C	Common cavity C-10-2 (P in nose)
S	Sun Cavity T-3A (P in nose) See Tech Info for valves.

Tank Isolation	
Omit if T isolation not required	
TA...TF	Available with spacing code 5
TA...TD	Available with spacing code 7

Relief / Isolation Combination	
Specify when using both relief and isolation options.	
L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pressure Isolation	
Omit if P isolation not required	
PA...PF	Available with spacing code 5
PA...PD	Available with spacing code 7

D08 High Flow Parallel Circuit Manifold



Rated flow Pressure 72 gpm @ 15 fps
Rated flow Tank 100 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07
"A" length (code 5 spa.) inch [mm]	6.25 [158.8]	11.50 [292.1]	16.75 [425.5]	22.00 [558.8]	27.25 [692.2]	32.50 [825.5]	37.75 [958.9]
apx. weight alum lb [kg]	26 [12]	48 [22]	70 [32]	92 [42]	114 [52]	136 [62]	158 [72]
apx. weight iron lb [kg]	69 [31]	126 [57]	183 [83]	240 [109]	298 [135]	355 [161]	412 [187]
"A" length (code 7 spa.) inch [mm]	--	13.25 [336.6]	20.25 [514.4]	27.25 [692.2]	34.25 [870.0]		
apx. weight alum lb [kg]	--	55 [25]	85 [39]	114 [52]	143 [65]		
apx. weight iron lb [kg]	--	145 [66]	221 [100]	298 [135]	374 [170]		

* Gauge port not available on 01 station.

All mounting hardware is supplied.
See page 63 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.50-13 UNC x 1.19 [30] DP	0.50-13 UNC x 0.88 [22.3] DP
B, M, T	M12 ISO 6H x 1.19 [30] DP	M12 ISO 6H x 0.88 [22.3] DP

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
----------	---------------	---------	-----------------	---------------	--------------	---	---------

Material
A Aluminum - 6061-T6 3000 [†] psi • 20.7 MPa
D Ductile Iron - D4512 5000 [†] psi • 34.5 MPa

[†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern
D08 ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Circuit
HP Parallel Circuit High Flow

No. of Stations
Aluminum
01...07 Available with spacing code 5
02...05 Available with spacing code 7
Ductile Iron
01...07 Available with spacing code 5
02...05 Available with spacing code 7

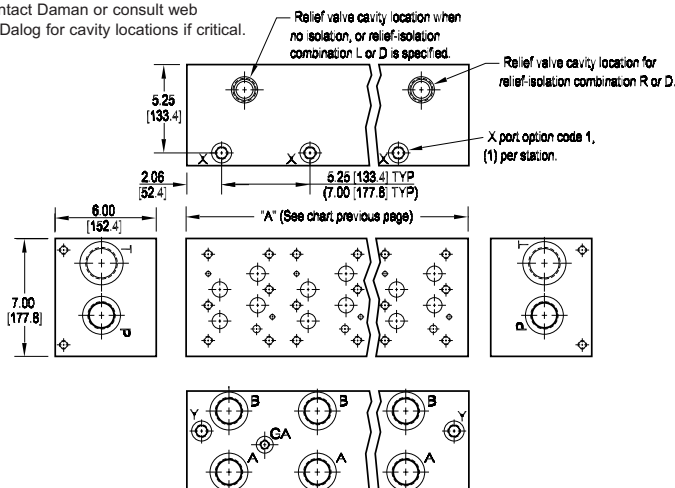
Valve Spacing
5 5.25 inch 133.4 mm
7 7.00 inch 177.8 mm

Port Threads	P,A,B	T	Y	X optional	GA
P NPTF • ANSI B1.20.3	1.25	1.50	0.38	0.25	0.25
S SAE • ISO 11926	-20	-24	-8	-4	-6
B BSPP • ISO 1179	1.25	1.50	0.50	0.25	none
M ISO • ISO 6149	M42	M48	M16	M10	none
T BSPT • ISO 7	1.25	1.50	0.50	0.25	none

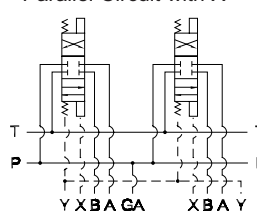
Options
See next page for available options and ordering codes.

Options - D08 High Flow Parallel Manifold

Contact Daman or consult web
CADalog for cavity locations if critical.



Parallel Circuit with X



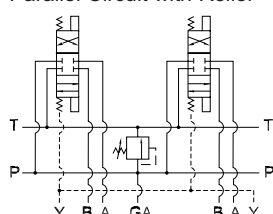
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
5.25 [133.4] spacing		
A	01 & 02	02-07
B	02 & 03	03-07
C	03 & 04	04-07
D	04 & 05	05-07
E	05 & 06	06-07
F	06 & 07	07
7.00 [177.8] spacing		
A	01 & 02	02-05
B	02 & 03	03-05
C	03 & 04	04-05
D	04 & 05	05

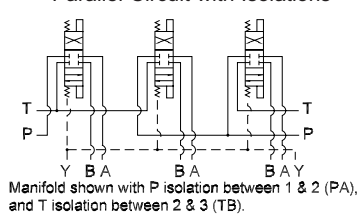
* Stations are numbered left to right.

Parallel Circuit with Relief

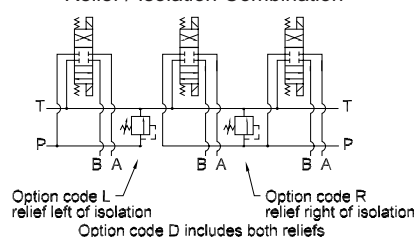


Valve with P in nose must be used.

Parallel Circuit with Isolations



Relief / Isolation Combination



NOTES:

- 1) The GA port is not available on a (1) station manifold.
- 2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Ordering Information

...	Pilot Ports	Relief Cavity	Pressure Isolation	Tank Isolation	Relief & Isolation
-----	-------------	---------------	--------------------	----------------	--------------------

Pilot Ports	
Omit if X ports not required	
1	X port ISO 4401-08-07 NFPA T3.5.1-D08

Relief Cavity	
Omit if relief not required	
C	Common cavity C-16-2 (P in nose)
S	Sun Cavity T-16A (P in nose) See Tech Info for valves.

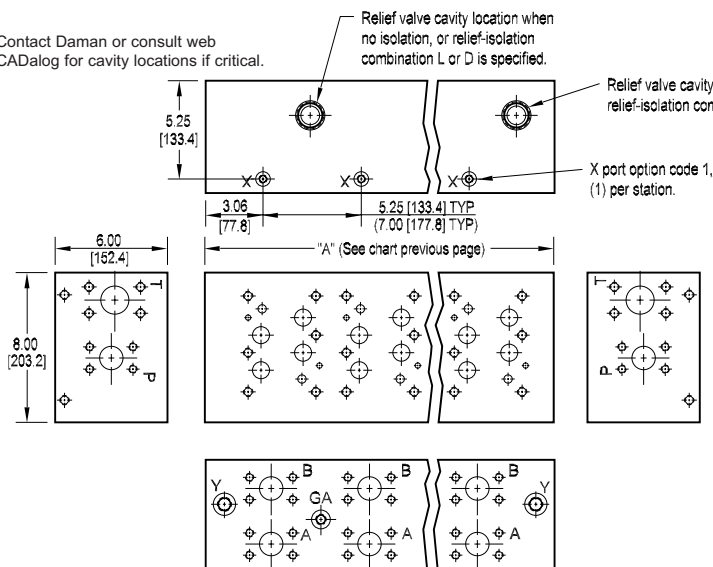
Tank Isolation	
Omit if T isolation not required	
TA...TF	Available with spacing code 5
TA...TD	Available with spacing code 7

Relief / Isolation Combination	
Specify when using both relief and isolation options.	
L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

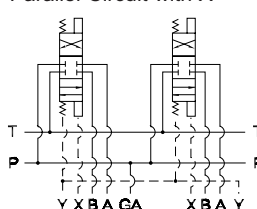
Pressure Isolation	
Omit if P isolation not required	
PA...PF	Available with spacing code 5
PA...PD	Available with spacing code 7

Options - D08 High Flow Parallel Manifold Flange Ports

Contact Daman or consult web
CADalog for cavity locations if critical.



Parallel Circuit with X



ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

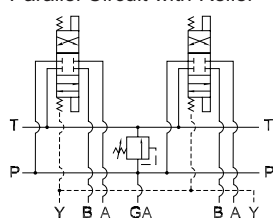
Ordering code letter:	* Isolation is between stations:	Available # of stations:
5.25 [133.4] spacing		
A	01 & 02	02-07
B	02 & 03	03-07
C	03 & 04	04-07
D	04 & 05	05-07
E	05 & 06	06-07
F	06 & 07	07
7.00 [177.8] spacing		
A	01 & 02	02-05
B	02 & 03	03-05
C	03 & 04	04-05
D	04 & 05	05

* Stations are numbered left to right.

NOTES:

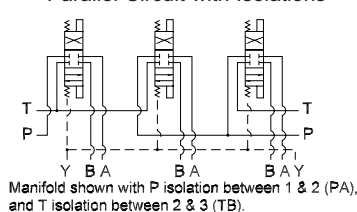
- 1) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Parallel Circuit with Relief

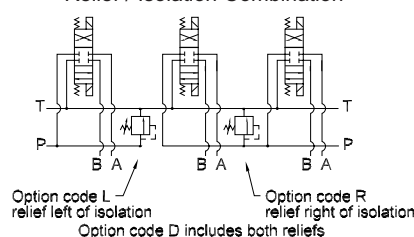


Valve with P in nose must be used.

Parallel Circuit with Isolations



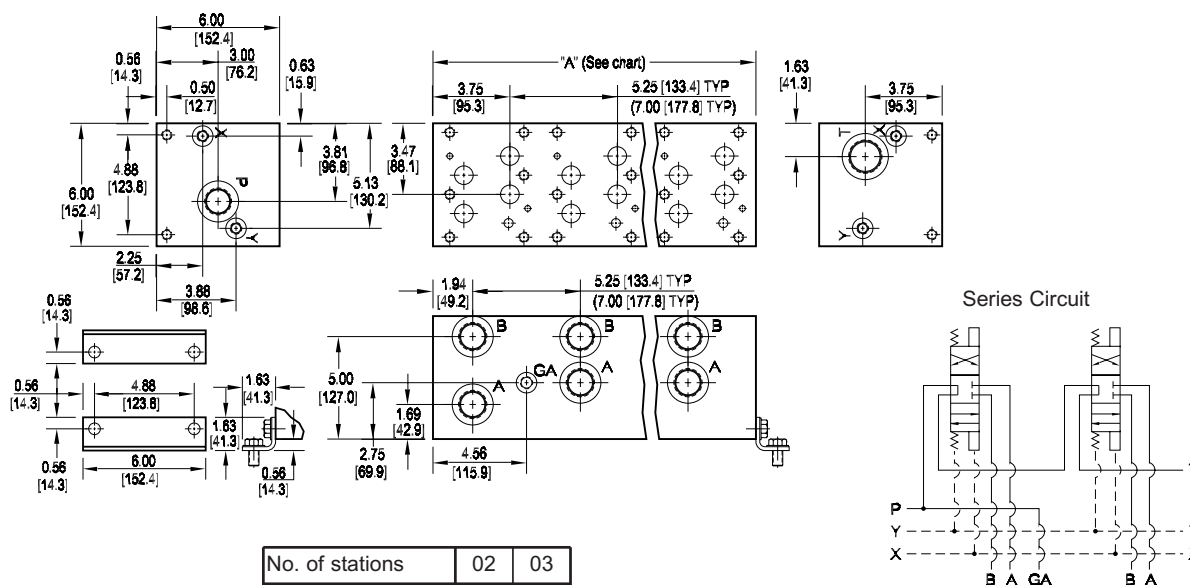
Relief / Isolation Combination



Ordering Information

...	Thread Type	Pilot Ports	Relief Cavity	Pressure Isolation	Tank Isolation	Relief & Isolation
Thread Type Omit Inch threads / ports M Metric threads / ports Relief Cavity Omit if relief not required C Common cavity C-16-2 (P in nose) S Sun Cavity T-16A (P in nose) See Tech Info for valves. Pilot Ports Omit if X ports not required 1 X port ISO 4401-08-07 NFPA T3.5.1-D08 Pressure Isolation Omit if P isolation not required PA...PF Available with spacing code 5 PA...PD Available with spacing code 7 Tank Isolation Omit if T isolation not required TA...TF Available with spacing code 5 TA...TD Available with spacing code 7 Relief / Isolation Combination Specify when using both relief and isolation options. L Relief cavity is located left of the isolation. R Relief cavity is located right of the isolation. D Two relief cavities, one each side of isolation.						

D08 Series Circuit Manifold



No. of stations	02	03
"A" length (code 5 spa.) inch [mm]	10.50 [266.7]	15.75 [400.1]
apx. weight alum lb [kg]	37 [17]	51 [23]
apx. weight iron lb [kg]	109 [49]	164 [74]
"A" length (code 7 spa.) inch [mm]	12.25 [311.2]	19.25 [489.0]
apx. weight alum lb [kg]	51 [23]	63 [29]
apx. weight iron lb [kg]	127 [58]	200 [91]

All mounting hardware is supplied.
See page 63 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.50-13 UNC x 1.19 [30] DP	0.50-13 UNC x 0.88 [22.3] DP
B, M, T	M12 ISO 6H x 1.19 [30] DP	M12 ISO 6H x 0.88 [22.3] DP

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
----------	---------------	---------	-----------------	---------------	--------------	---	---------

Material	
A	Aluminum - 6061-T6 3000 [†] psi • 20.7 MPa
D	Ductile Iron - D4512 5000 [†] psi • 34.5 MPa

[†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern	
D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Circuit	
S	Series Circuit

Valve Spacing	
5	5.25 inch 133.4 mm
7	7.00 inch 177.8 mm

No. of Stations	
Aluminum	
02...03	Available with spacing code 5
02...03	Available with spacing code 7
Ductile Iron	
02...03	Available with spacing code 5
02...03	Available with spacing code 7

Port Threads		P,A,B	T	X & Y	GA
P	NPTF • ANSI B1.20.3	1.00	1.25	0.38	0.25
S	SAE • ISO 11926	-16	-20	-6	-6
B	BSPP • ISO 1179	1.00	1.25	0.38	none
M	ISO • ISO 6149	M33	M42	M14	none
T	BSPT • ISO 7	1.00	1.25	0.38	none

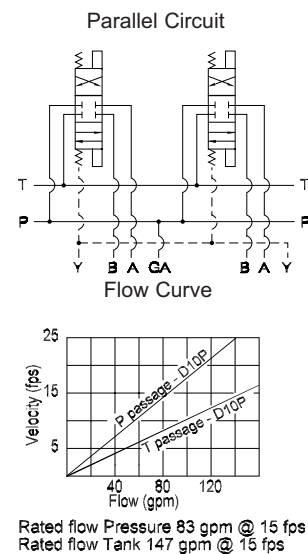
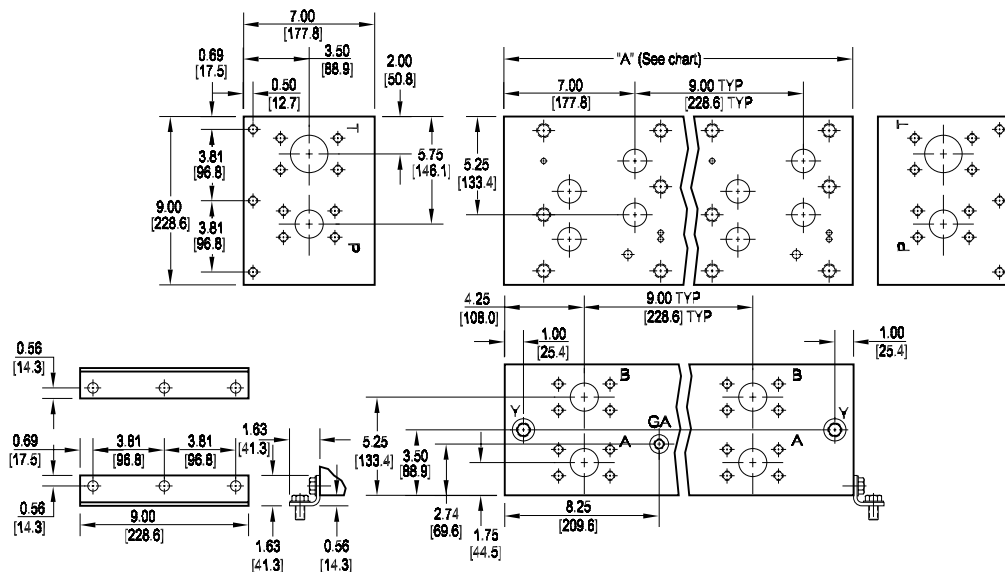
Options	
No options available.	



D10 Manifolds 

Technical Information	Header and Junction Blocks	DIN Cartridge Valve Bodies	Tapping Plates	Servo Valve Subplates	Subplates	Valve Adaptors	Cover Plates	Standard Manifolds	Custom Products
-----------------------	----------------------------	----------------------------	----------------	-----------------------	-----------	----------------	--------------	--------------------	-----------------

D10 Parallel Circuit Manifold - Flange Ports



No. of stations	01	02	03	04
"A" length inch [mm]	10.00 [254.0]	19.00 [482.6]	28.00 [711.2]	37.00 [939.8]
apx. weight alum lb [kg]	63 [29]	120 [54]	176 [80]	233 [106]
apx. weight iron lb [kg]	170 [77]	323 [147]	--	--

All mounting hardware is supplied.
See page 63 for itemized list.

Port code	Valve mtg.	Manifold mtg.	Flange mtg.	GA port	Y port	X port
F	0.75-10 UNC x 1.63 [41] DP	0.50-13 UNC x 0.88 [22] DP	ISO 6162 Type II - Inch	-6 SAE J1926	-8 SAE J1926	-6 SAE J1926
F / M	M20 ISO 6H x 1.63 [41] DP	M12 ISO 6H x 0.88 [22] DP	ISO 6162 Type I - metric	NONE	M16 ISO 6149	M14 ISO 6149

* X port is optional. See options on next page.

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options
----------	---------------	---------	-----------------	---------------	--------------	---	---------

Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern	
D10	ISO 4401-10-08 NFPA T3.5.1-D10 See Tech Information

Circuit	
P	Parallel Circuit Standard Flow

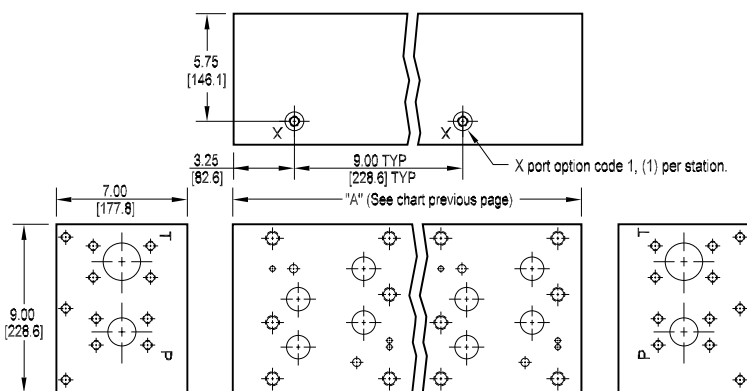
Valve Spacing	
9	9.00 inch 228.6 mm

No. of Stations	
Aluminum	
01...04	Available with spacing code 9
Ductile Iron	
01...02	Available with spacing code 9

Port Threads	P,A,B	T
F	CODE 61 4-Bolt Flange SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	1.50 CODE 61 2.00 CODE 61

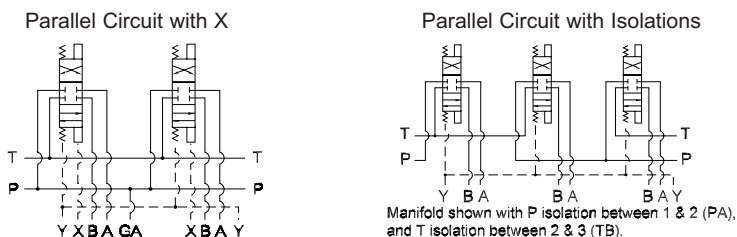
Options	
	See next page for available options and ordering codes.

Options - D10 Parallel Manifold - Flange Ports



ISOLATIONS		
Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.		
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-04
B	02 & 03	03-04
C	03 & 04	04

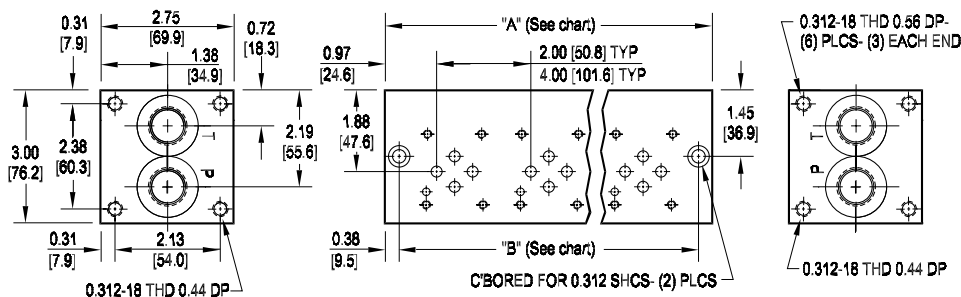
* Stations are numbered left to right.



Ordering Information

... /	Thread Type	Pilot Ports	Pressure Isolation	Tank Isolation																								
	<table><tr><th colspan="2">Thread Type</th></tr><tr><td>Omit</td><td>Inch threads / ports</td></tr><tr><td>M</td><td>Metric threads / ports</td></tr></table>	Thread Type		Omit	Inch threads / ports	M	Metric threads / ports	<table><tr><th colspan="2">Pilot Ports</th></tr><tr><td colspan="2">Omit if X ports not required</td></tr><tr><td>1</td><td>X port ISO 4401-08-07 NFPA T3.5.1-D08</td></tr></table>	Pilot Ports		Omit if X ports not required		1	X port ISO 4401-08-07 NFPA T3.5.1-D08	<table><tr><th colspan="2">Pressure Isolation</th></tr><tr><td colspan="2">Omit if P isolation not required</td></tr><tr><td>PA...PC</td><td>Available with spacing code 9</td></tr></table>	Pressure Isolation		Omit if P isolation not required		PA...PC	Available with spacing code 9	<table><tr><th colspan="2">Tank Isolation</th></tr><tr><td colspan="2">Omit if T isolation not required</td></tr><tr><td>TA...TC</td><td>Available with spacing code 9</td></tr></table>	Tank Isolation		Omit if T isolation not required		TA...TC	Available with spacing code 9
Thread Type																												
Omit	Inch threads / ports																											
M	Metric threads / ports																											
Pilot Ports																												
Omit if X ports not required																												
1	X port ISO 4401-08-07 NFPA T3.5.1-D08																											
Pressure Isolation																												
Omit if P isolation not required																												
PA...PC	Available with spacing code 9																											
Tank Isolation																												
Omit if T isolation not required																												
TA...TC	Available with spacing code 9																											

D03 LC Parallel Circuit Manifold

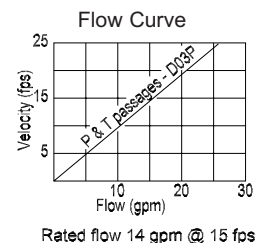
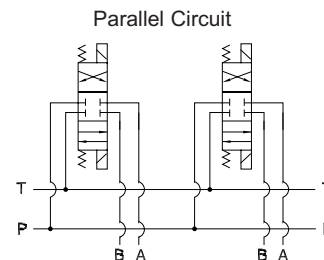


NOTE:
Mounting hardware
is ordered separately.

See page 60 for available
bracket or screw mounting kits
at no extra charge. Flange and
gasket kits are also available
for a nominal charge.

Code 2 (2.00") valve spacing							Code 4 (4.00") valve spacing			
No. of stations	* 01	02	03	04	05	06	No. of stations	02	03	04
"A" length inch [mm]	2.75 [69.9]	4.75 [120.7]	6.75 [171.5]	8.75 [222.3]	10.75 [273.1]	12.75 [323.9]	"A" length inch [mm]	6.75 [171.5]	10.75 [273.1]	14.75 [374.7]
"B" dimension inch [mm]	2.00 [50.8]	4.00 [101.6]	6.00 [152.4]	8.00 [203.2]	10.00 [254.0]	12.00 [304.8]	"B" dimension inch [mm]	6.00 [152.4]	10.00 [254.0]	14.00 [355.6]
apx. weight alum lb [kg]	2.5 [1.2]	4 [2]	6 [3]	7.5 [4]	9 [4.5]	11 [5]	apx. weight alum lb [kg]	6 [3]	9 [4.5]	13 [6]
apx. weight iron lb [kg]	6 [3]	10.5 [5]	15 [7]	19 [9]	23 [11]	28 [13]	apx. weight iron lb [kg]	15 [8]	23 [12]	32 [15]

* "A" length of 01 station with relief cavity is 3.75 [95.3]. "B" dimension is 3.00 [76.2].



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Ordering Information

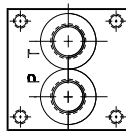
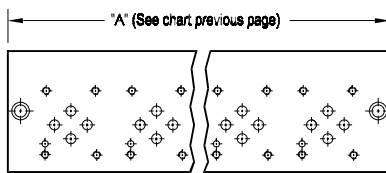
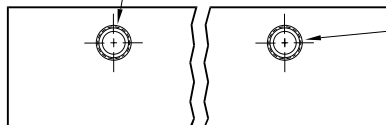
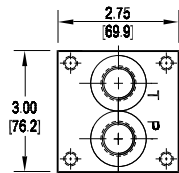
Product Line	Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/		Options
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.			Circuit P Parallel Circuit Standard Flow		Valve Spacing 2 2.00 inch [50.8 mm] 4 4.00 inch [101.6 mm]				Options See next page for available options and ordering codes.
Product Line L Low Cost		Valve Pattern D03 ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information		No. of Stations Aluminum 01...06 Available with spacing code 2 02...04 Available with spacing code 4 Ductile Iron 01...06 Available with spacing code 2 02...04 Available with spacing code 4		Port Threads P NPTF • ANSI B1.20.3 0.50 0.38 S SAE • ISO 11926 -10 -8			

Options - D03 LC Parallel Manifold

Contact Daman or consult web
CAdalog for cavity locations if critical.

Relief valve cavity location when
no isolation, or relief-isolation
combination L or D is specified.

Relief valve cavity location for
relief-isolation combination R or D.



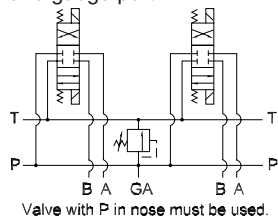
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

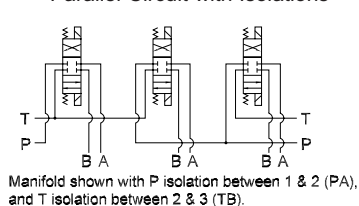
Ordering code letter:	* Isolation is between stations:	Available # of stations:
2.00 [50.8] spacing		
A	01 & 02	02-06
B	02 & 03	03-06
C	03 & 04	04-06
D	04 & 05	05-06
E	05 & 06	06
4.00 [101.6] spacing		
A	01 & 02	02-04
B	02 & 03	03-04
C	03 & 04	04

* Stations are numbered left to right.

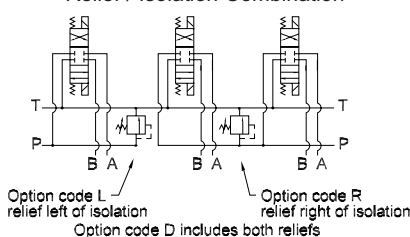
Parallel Circuit with Relief and gauge port



Parallel Circuit with Isolations



Relief / Isolation Combination



NOTES:

- 1) The GA port is not available on a (1) station manifold.
- 2) The GA port is not available when a pressure isolation is specified.
- 3) Some combinations of relief cavities and isolations are not possible. Consult factory to determine availability.

Ordering Information

...	Gauge Port	Relief Cavity	Pressure Isolation	Tank Isolation	Relief & Isolation
-----	------------	---------------	--------------------	----------------	--------------------

Gauge Port	
Omit if gauge port not required.	
G	Gauge Port for system pressure
If Port Thread code is: P, then Gauge port = 0.25 NPTF S, then Gauge port = -4 SAE	

Relief Cavity	
Omit if relief not required.	
C	Common cavity C-10-2 (P in nose)
S	Sun Cavity T-10A (P in nose) See Tech Info for valves.

Tank Isolation	
Omit if T isolation not required.	
TA...TE	Available with spacing code 2
TA...TC	Available with spacing code 4

Relief / Isolation Combination	
Specify when using both relief and isolation options.	
L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

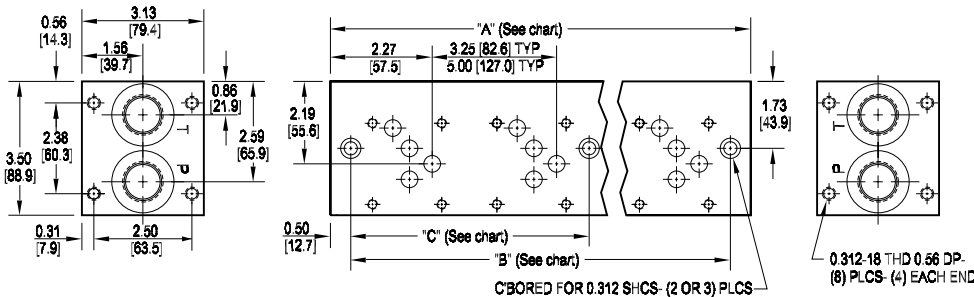
Pressure Isolation	
Omit if P isolation not required. Not available with G option.	
PA...PE	Available with spacing code 2
PA...PC	Available with spacing code 4

Daman Products Company, Inc.

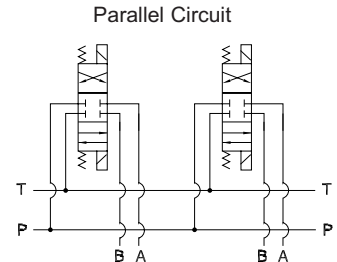
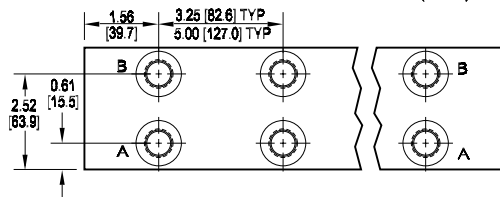
1811 North Home Street • Mishawaka, Indiana 46545-7267 USA • North America: 800.959.7841 • Fax: 800.241.7664

International: 574.259.7841 • Fax: 574.259.7665 • Email: sales@damanifolds.com • Web: www.damanifolds.com

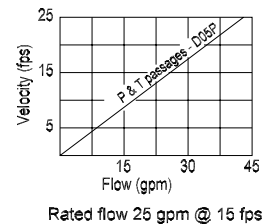
D05 LC Parallel Circuit Manifold



! NOTE:
Mounting hardware is ordered separately. See page 60 for available bracket or screw mounting kits at no extra charge. Flange and gasket kits are also available for a nominal charge.



Flow Curve



Code 3 (3.25") valve spacing							Code 5 (5.00") valve spacing			
No. of stations	* 01	02	03	04	05	06	No. of stations	02	03	04
"A" length inch [mm]	3.25 [82.6]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]	16.25 [412.8]	19.50 [495.3]	"A" length inch [mm]	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]
"B" dimension inch [mm]	2.25 [57.2]	5.50 [139.7]	8.75 [222.3]	12.00 [304.8]	15.25 [387.4]	18.50 [469.9]	"B" dimension inch [mm]	7.25 [184.2]	12.25 [311.2]	17.25 [438.2]
"C" dimension inch [mm]	--	--	--	--	6.00 [152.4]	9.25 [235.0]	"C" dimension inch [mm]	--	--	8.63 [219.1]
apx. weight alum lb [kg]	4 [2]	7.5 [3]	11 [5]	14.5 [7]	18 [8]	21.5 [10]	apx. weight alum lb [kg]	9 [4]	15 [7]	20 [9]
apx. weight iron lb [kg]	9.5 [4.5]	19 [8.5]	28 [13]	37 [17]	46.5 [21]	56 [25.5]	apx. weight iron lb [kg]	24 [11]	38 [17]	52 [24]

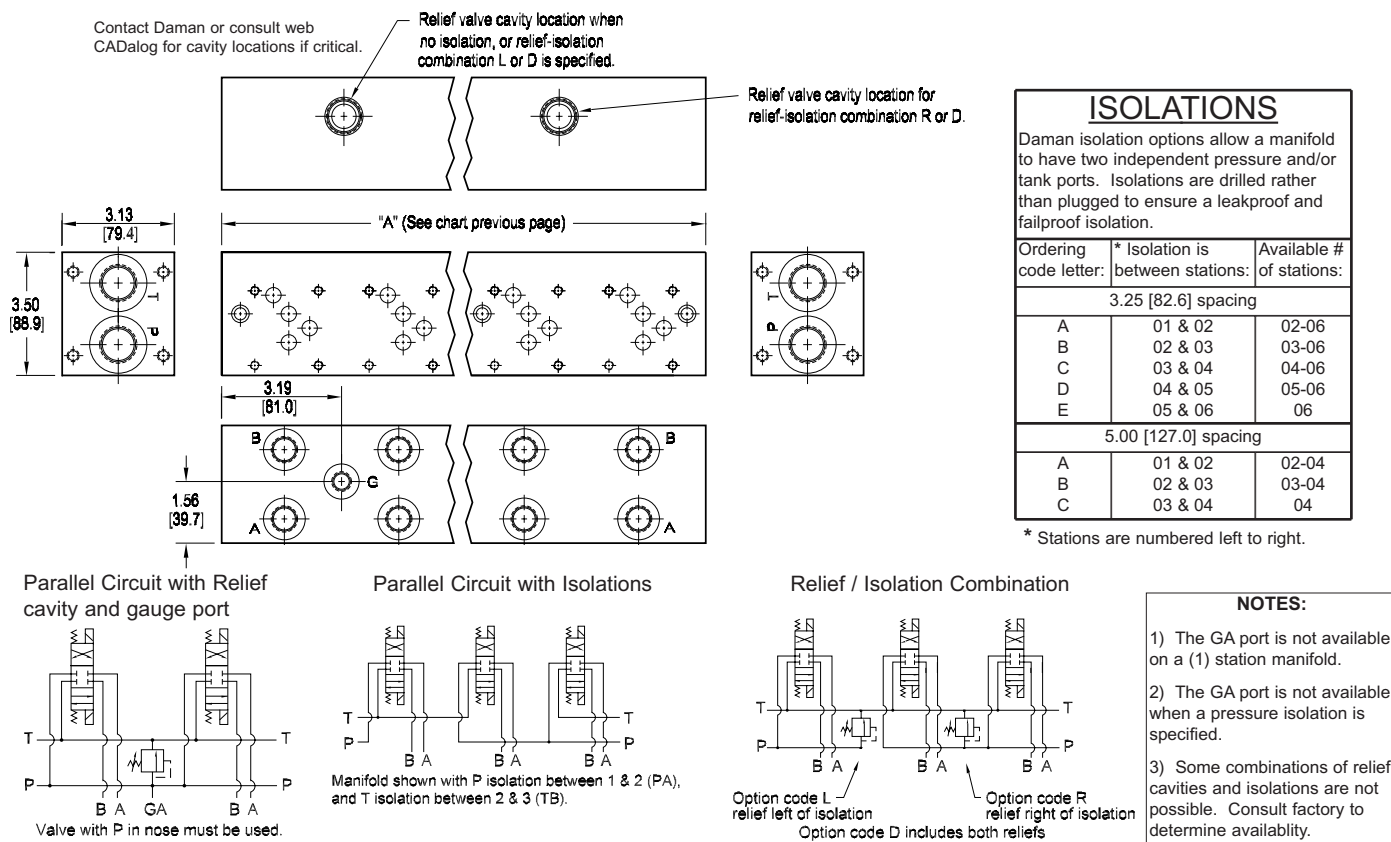
* "A" length of 01 station with relief cavity is 4.50 [114.3]. "B" dimension is 3.50 [88.9].

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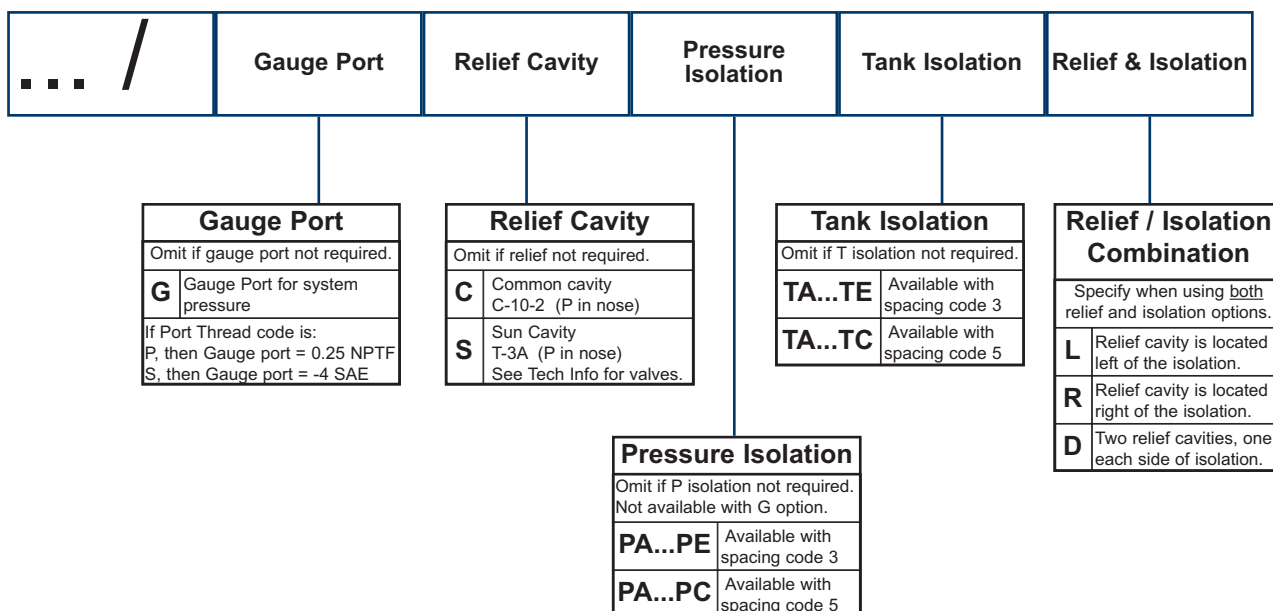
Ordering Information

Product Line	Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options					
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Circuit P Parallel Circuit Standard Flow	Valve Spacing 3 3.25 inch [82.6 mm] 5 5.00 inch [127.0 mm]	Options See next page for available options and ordering codes.	No. of Stations Aluminum 01...06 Available with spacing code 3 02...04 Available with spacing code 5 Ductile Iron 01...06 Available with spacing code 3 02...04 Available with spacing code 5									
				Port Threads <table border="1"> <thead> <tr> <th></th> <th>P & T</th> <th>A & B</th> </tr> </thead> <tbody> <tr> <td>P NPTF • ANSI B1.20.3</td> <td>0.75</td> <td>0.50</td> </tr> <tr> <td>S SAE • ISO 11926</td> <td>-12</td> <td>-8</td> </tr> </tbody> </table>						P & T	A & B	P NPTF • ANSI B1.20.3	0.75
	P & T	A & B											
P NPTF • ANSI B1.20.3	0.75	0.50											
S SAE • ISO 11926	-12	-8											
Product Line L Low Cost	Valve Pattern D05 ISO 4401-05-04 NFFPA T3.5.1-D05 See Tech Information												

Options - D05 LC Parallel Manifold

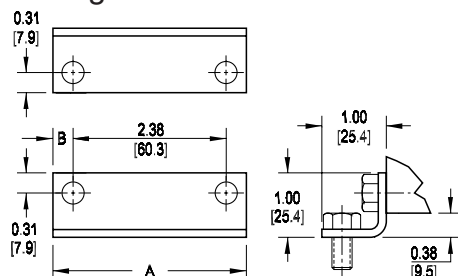


Ordering Information



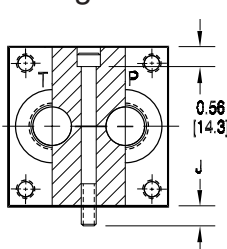
Mounting Kits for LC Manifolds

Mounting Bracket

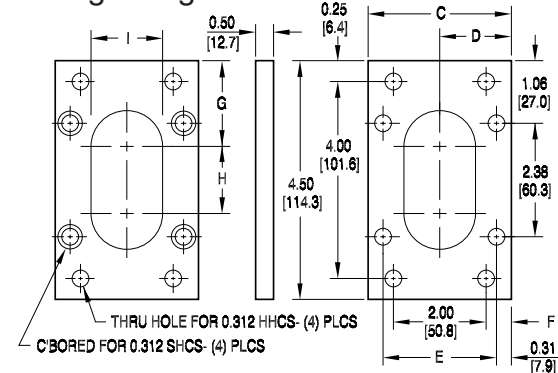


Dim	A	B	C	D	E	F	G	H	I	J	K
D03	3.00 [76.2]	0.31 [7.9]	2.75 [69.9]	1.38 [34.9]	2.13 [54.0]	0.38 [9.5]	1.47 [37.3]	1.47 [37.3]	1.33 [33.7]	0.56 [14.3]	3.25 [82.6]
D05	3.50 [88.9]	0.56 [14.3]	3.13 [79.4]	1.56 [39.7]	2.50 [63.5]	0.56 [14.3]	1.36 [34.6]	1.73 [44.0]	1.61 [41.0]	0.69 [17.5]	3.53 [89.7]

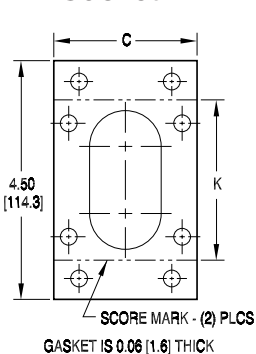
Mounting Screw



Mounting Flange



Gasket



Bill of Materials

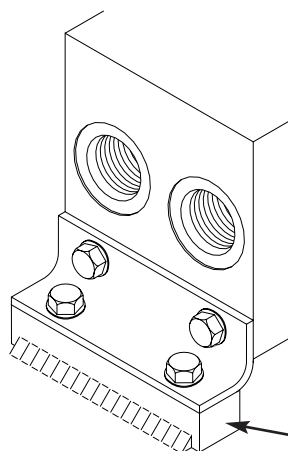
Mounting Bracket and Mounting Flange Kits	185-D03MKL	185-D03MKV	185-D05MKL	185-D05MKV
(2) zinc coated steel brackets	•	•	•	•
(1) zinc coated steel end mounting plate	•	•	•	•
(8) 0.312-18 x 0.63 long hex washer head cap screws	•	•	•	•
(1) 0.312-18 x 0.50 long socket head cap screw	•	•	•	•
(3) 0.312-18 x 0.63 long socket head cap screws	•	•	•	•
(4) 0.312-18 x 0.75 long socket head cap screws	•	•	•	•
(4) 0.312-18 x 1.00 long hex head cap screws	•	•	•	•
(4) 0.312 high collar lock washers	•	•	•	•
(1) Tank top gasket	•	•	•	•
Mounting Screw Kits	185-D03MKB2	185-D05MKB2	185-D05MKB3	
(2) 0.312-18 x 2.75 long socket head cap screws	•	•	•	•
(2) 0.312-18 x 3.25 long socket head cap screws	•	•	•	•
(3) 0.312-18 x 3.25 long socket head cap screws	•	•	•	•

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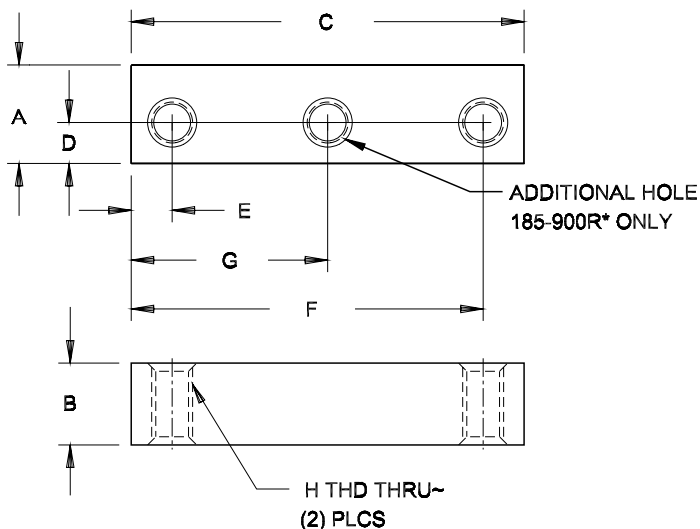
Ordering Information

Inventory Number		Manifold Size	Mounting Kit	Mounting Configuration	Number of Screws																												
185 (Inventory Number)		<table><tr><th colspan="2">Manifold Size</th></tr><tr><td>D03</td><td>D03 Manifold</td></tr><tr><td>D05</td><td>D05 Manifold</td></tr></table>	Manifold Size		D03	D03 Manifold	D05	D05 Manifold	<table><tr><th colspan="2">Mounting Kit</th></tr><tr><td>MK</td><td>Mounting Kit</td></tr></table>	Mounting Kit		MK	Mounting Kit	<table><tr><th colspan="2">Configuration</th></tr><tr><td>L</td><td>Mounting Bracket kit</td></tr><tr><td>B</td><td>Mounting Screw kit</td></tr><tr><td>V</td><td>Mounting Flange kit (Includes Gasket)</td></tr><tr><td>G</td><td>Gasket only</td></tr></table>	Configuration		L	Mounting Bracket kit	B	Mounting Screw kit	V	Mounting Flange kit (Includes Gasket)	G	Gasket only	<table><tr><th colspan="2">No. of Screws</th></tr><tr><td colspan="2">Specify for Mounting Screw kits (type B) only.</td></tr><tr><td>2</td><td>Two mounting holes on manifold. LC D03 1-6 stations. LC D05 1-4 stations with code 3 spacing. LC D05 2-3 stations with code 5 spacing.</td></tr><tr><td>3</td><td>Three mounting holes on manifold. LC D05 5-6 stations with code 3 spacing. LC D05 4 station with code 5 spacing.</td></tr></table>	No. of Screws		Specify for Mounting Screw kits (type B) only.		2	Two mounting holes on manifold. LC D03 1-6 stations. LC D05 1-4 stations with code 3 spacing. LC D05 2-3 stations with code 5 spacing.	3	Three mounting holes on manifold. LC D05 5-6 stations with code 3 spacing. LC D05 4 station with code 5 spacing.
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Mounting Bracket Riser Blocks



Riser block
Material mild steel
Weldable • uncoated



Part No.	A	B	C	D	E	F	G	H THD
185-250RU	0.63	0.50	2.50	0.25	0.25	2.25	--	0.250-20 UNC-2B
185-250RM	[16.0]	[12.7]	[63.5]	[6.4]	[6.4]	[57.2]	--	M6 x 1 ISO 6H
185-300RU	0.75	0.63	3.00	0.31	0.31	2.69	--	0.312-18 UNC-2B
185-300RM	[19.1]	[16.0]	[76.2]	[7.9]	[7.9]	[68.3]	--	M8 x 1.25 ISO 6H
185-350RU	0.75	0.63	3.50	0.31	0.56	2.94	--	0.312-18 UNC-2B
185-350RM	[19.1]	[16.0]	[88.9]	[7.9]	[14.2]	[74.6]	--	M8 x 1.25 ISO 6H
185-400RU	0.75	0.63	4.00	0.31	0.31	3.69	--	0.312-18 UNC-2B
185-400RM	[19.1]	[16.0]	[101.6]	[7.9]	[7.9]	[93.7]	--	M8 x 1.25 ISO 6H
185-500RU	1.00	0.75	5.00	0.44	0.44	4.56	--	0.375-16 UNC-2B
185-500RM	[25.4]	[19.1]	[127.0]	[11.2]	[11.2]	[115.9]	--	M10 x 1.5 ISO 6H

Part No.	A	B	C	D	E	F	G	H THD
185-600RU	1.25	1.00	6.00	0.56	0.56	5.44	--	0.500-13 UNC-2B
185-600RM	[31.8]	[25.4]	[152.4]	[14.2]	[14.2]	[138.1]	--	M12 x 1.75 ISO 6H
185-700RU	1.25	1.00	7.00	0.56	0.69	6.31	--	0.500-13 UNC-2B
185-700RM	[31.8]	[25.4]	[177.8]	[14.2]	[17.5]	[160.3]	--	M12 x 1.75 ISO 6H
185-800RU	1.25	1.00	8.00	0.56	1.19	6.81	--	0.500-13 UNC-2B
185-800RM	[31.8]	[25.4]	[203.2]	[14.2]	[30.2]	[173.0]	--	M12 x 1.75 ISO 6H
185-900RU	1.25	1.00	9.00	0.56	0.69	8.31	4.50	0.500-13 UNC-2B
185-900RM	[31.8]	[25.4]	[228.6]	[14.2]	[17.5]	[211.1]	[114.3]	M12 x 1.75 ISO 6H

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Ordering Information

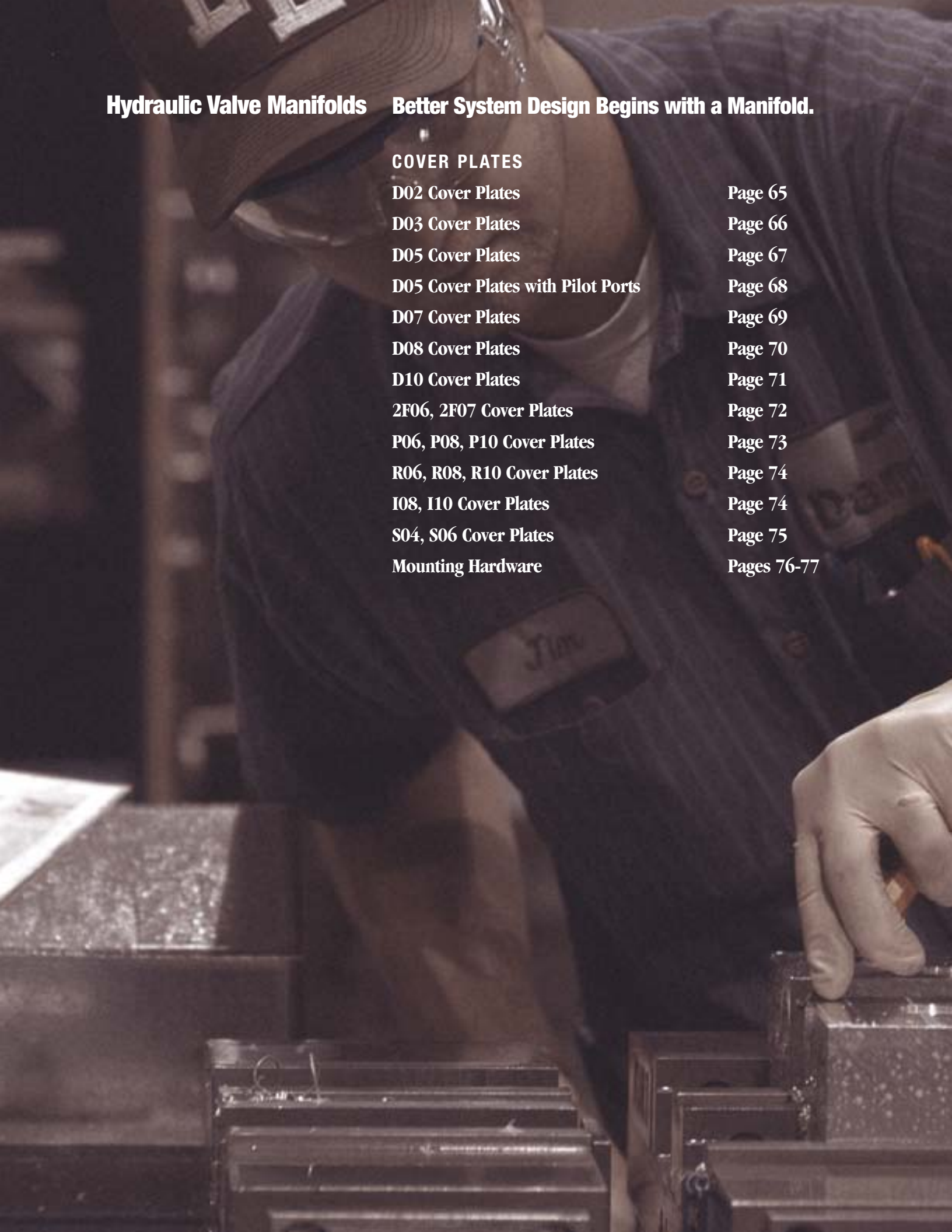
Inventory Number		Bracket Size	Riser	Thread Type																										
185 (Inventory Number)		<table><tr><th colspan="2">Bracket Size</th></tr><tr><td>250</td><td>2.50" Bracket</td></tr><tr><td>300</td><td>3.00" Bracket</td></tr><tr><td>350</td><td>3.50" Bracket</td></tr><tr><td>400</td><td>4.00" Bracket</td></tr><tr><td>500</td><td>5.00" Bracket</td></tr><tr><td>600</td><td>6.00" Bracket</td></tr><tr><td>700</td><td>7.00" Bracket</td></tr><tr><td>800</td><td>8.00" Bracket</td></tr><tr><td>900</td><td>9.00" Bracket</td></tr></table>	Bracket Size		250	2.50" Bracket	300	3.00" Bracket	350	3.50" Bracket	400	4.00" Bracket	500	5.00" Bracket	600	6.00" Bracket	700	7.00" Bracket	800	8.00" Bracket	900	9.00" Bracket	R (Riser Block)	<table><tr><th colspan="2">Thread Type</th></tr><tr><td>U</td><td>UNC Inch Threads</td></tr><tr><td>M</td><td>Metric Threads</td></tr></table>	Thread Type		U	UNC Inch Threads	M	Metric Threads
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U	UNC Inch Threads																													
M	Metric Threads																													

Manifold Mounting Hardware

Part no.	Cat. pg.	Mtg. Kit no.	Gauge Port Plug	Mounting Screws	Brackets
* D02 P 01 1 P	6-7	250-MKO	n/a	(8) UNC 0.25-20 x 0.50 long hex washer cap screw	(2) Steel brackets
* D02 P 01 1 S	6-7	250-MKO	n/a		
* D02 *** 1 P	6-9	250-MKP	(1) 0.25-18 NPTF LSPP		
* D02 *** 1 S	6-9	250-MKS	(1) -6 SAE hex socket plug		
* D02 *** 1 B	6-9	250-MKM	n/a		
* D02 *** 1 M	6-9	250-MKM	n/a		
* D02 *** 1 T	6-9	250-MKM	n/a		
* D03 P 01 2 P	10-11	300-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D03 P 01 2 S	10-11	300-MKO	n/a		
* D03 *** P	10-11, 20-21	300-MKP	(1) 0.25-18 NPTF LSPP		
* D03 *** S	10-11, 20-21	300-MKS	(1) -6 SAE hex socket plug		
* D03 *** B	10-11, 20-21	300-MKM	n/a		
* D03 *** M	10-11, 20-21	300-MKM	n/a		
* D03 *** T	10-11, 20-21	300-MKM	n/a		
* D03 TF *	13	400-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D03 HP 01 2 P	14-15	400-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D03 HP 01 2 S	14-15	400-MKO	n/a		
* D03 HP ** P	14-15	400-MKP	(1) 0.25-18 NPTF LSPP		
* D03 HP ** S	14-15	400-MKS	(1) -6 SAE hex socket plug		
* D03 HP ** B	14-15	400-MKM	n/a		
* D03 HP ** M	14-15	400-MKM	n/a		
* D03 HP ** T	14-15	400-MKM	n/a		
* D03 HP 01 4 F	16-17	500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D03 HP ** 4 F	16-17	500-MKS	(1) -6 SAE hex socket plug		
* D03 HP ** 4 F/M	16-17	500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D05 P 01 3 P	22-23	350-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D05 P 01 3 S	22-23	350-MKO	n/a		
* D05 *** P	22-23, 34-35	350-MKP	(1) 0.25-18 NPTF LSPP		
* D05 *** S	22-23, 34-35	350-MKS	(1) -6 SAE hex socket plug		
* D05 *** B	22-23, 34-35	350-MKM	n/a		
* D05 *** M	22-23, 34-35	350-MKM	n/a		
* D05 *** T	22-23, 34-35	350-MKM	n/a		
* D05 TF *	25	400-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D05 HP 01 3 P	26-27	500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D05 HP 01 3 S	26-27	500-MKO	n/a		
* D05 H* ** P	26-27, 36-37	500-MKP	(1) 0.25-18 NPTF LSPP		
* D05 H* *** S	26-27, 36-37	500-MKS	(1) -6 SAE hex socket plug		
* D05 H* *** B	26-27, 36-37	500-MKM	n/a		
* D05 H* *** M	26-27, 36-37	500-MKM	n/a		
* D05 H* *** T	26-27, 36-37	500-MKM	n/a		
* D05 HP 01 5 F	28-29	500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D05 HP ** 5 F	28-29	500-MKS	(1) -6 SAE hex socket plug		
* D05 HP ** 5 F/M	28-29	500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets

Manifold Mounting Hardware

Part no.	Cat. pg.	Mtg. Kit no.	Gauge Port Plug	Mounting Screws	Brackets
* D05 JP 01 3 P	32-33	500-MKO	n/a		
* D05 JP 01 3 S	32-33	500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS	
* D05 JP ** * P	32-33	500-MKP	(1) 0.25-18 NPTF LSPP	and (8) 0.38 SAE N series washers	
* D05 JP ** * S	32-33	500-MKS	(1) -6 SAE hex socket plug		(2) Steel brackets
* D05 JP ** * B	32-33	500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS	
* D05 JP ** * M	32-33	500-MKM	n/a	and (8) 0.38 SAE N series washers	
* D05 JP ** * T	32-33	500-MKM	n/a		
* D07 P 01 3 P	38-39	500-MKO	n/a		
* D07 P 01 3 S	38-39	500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS	
* D07 P ** * P	38-39	500-MKP	(1) 0.25-18 NPTF LSPP	and (8) 0.38 SAE N series washers	
* D07 P ** * S	38-39	500-MKS	(1) -6 SAE hex socket plug		(2) Steel brackets
* D07 P ** * B	38-39	500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS	
* D07 P ** * M	38-39	500-MKM	n/a	and (8) 0.38 SAE N series washers	
* D07 P ** * T	38-39	500-MKM	n/a		
* D07 HP 01 4 P	40-41	600-MKO	n/a		
* D07 HP 01 4 S	40-41	600-MKO	n/a	(8) UNC 0.50-13 x 1.00 long HHCS	
* D07 HP ** 4 P	40-41	600-MKP	(1) 0.25-18 NPTF LSPP	and (8) 0.50 SAE N series washers	
* D07 HP ** 4 S	40-41	600-MKS	(1) -6 SAE hex socket plug		(2) Steel brackets
* D07 HP ** 4 B	40-41	600-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS	
* D07 HP ** 4 M	40-41	600-MKM	n/a	and (8) 0.50 SAE N series washers	
* D07 HP ** 4 T	40-41	600-MKM	n/a		
* D07 HP 01 4 F	42-43	700-MKO	n/a	(8) UNC 0.50-13 x 1.00 long HHCS	
* D07 HP ** 4 F	42-43	700-MKS	(1) -6 SAE hex socket plug	and (8) 0.50 SAE N series washers	(2) Steel brackets
* D07 HP ** 4 F/M	42-43	700-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS	(2) Steel brackets
				and (8) 0.50 SAE N series washers	
* D07 S ** 4 P	44	600-MKP	(1) 0.25-18 NPTF LSPP	(8) UNC 0.50-13 x 1.00 long HHCS	
* D07 S ** 4 S	44	600-MKS	(1) -6 SAE hex socket plug	and (8) 0.50 SAE N series washers	(2) Steel brackets
* D07 S ** 4 B	44	600-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS	
* D07 S ** 4 M	44	600-MKM	n/a	and (8) 0.50 SAE N series washers	
* D07 S ** 4 T	44	600-MKM	n/a		
* D08 P 01 5 P	46-47	600-MKO	n/a		
* D08 P 01 5 S	46-47	600-MKO	n/a	(8) UNC 0.50-13 x 1.00 long HHCS	
* D08 ** * * P	46-47, 52	600-MKP	(1) 0.25-18 NPTF LSPP	and (8) 0.50 SAE N series washers	
* D08 ** * * S	46-47, 52	600-MKS	(1) -6 SAE hex socket plug		(2) Steel brackets
* D08 ** * * B	46-47, 52	600-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS	
* D08 ** * * M	46-47, 52	600-MKM	n/a	and (8) 0.50 SAE N series washers	
* D08 ** * * T	46-47, 52	600-MKM	n/a		
* D08 HP 01 5 P	48-49	700-MKO	n/a		
* D08 HP 01 5 S	48-49	700-MKO	n/a	(8) UNC 0.50-13 x 1.00 long HHCS	
* D08 HP ** * P	48-49	700-MKP	(1) 0.25-18 NPTF LSPP	and (8) 0.50 SAE N series washers	
* D08 HP ** * S	48-49	700-MKS	(1) -6 SAE hex socket plug		(2) Steel brackets
* D08 HP ** * B	48-49	700-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS	
* D08 HP ** * M	48-49	700-MKM	n/a	and (8) 0.50 SAE N series washers	
* D08 HP ** * T	48-49	700-MKM	n/a		
* D08 HP ** * F	50-51	800-MKS	(1) -6 SAE hex socket plug	(8) UNC 0.50-13 x 1.00 long HHCS	(2) Steel brackets
				and (8) 0.50 SAE N series washers	
* D08 HP ** * F/M	50-51	800-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS	(2) Steel brackets
				and (8) 0.50 SAE N series washers	
* D10 P ** 9 F	54-55	900-MKS	(1) -6 SAE hex socket plug	(12) UNC 0.50-13 x 1.00 long HHCS	(2) Steel brackets
				and (12) 0.50 SAE N series washers	
* D10 P ** 9 F/M	54-55	900-MKM	n/a	(12) ISO 6H M12-1.75 x 25mm HHCS	(2) Steel brackets
				and (12) 0.50 SAE N series washers	



Hydraulic Valve Manifolds Better System Design Begins with a Manifold.

COVER PLATES

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D03 Cover Plates	Page 66
D05 Cover Plates	Page 67
D05 Cover Plates with Pilot Ports	Page 68
D07 Cover Plates	Page 69
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D10 Cover Plates	Page 71
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P06, P08, P10 Cover Plates	Page 73
R06, R08, R10 Cover Plates	Page 74
I08, I10 Cover Plates	Page 74
S04, S06 Cover Plates	Page 75
Mounting Hardware	Pages 76-77

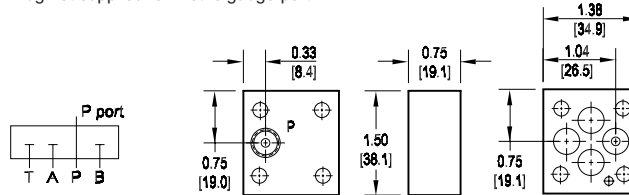
D02 Cover Plates

Parallel Circuit Cover Plate with Gauge Port

Cover Plate mounting hardware is supplied. *

See page 76 for itemized list.

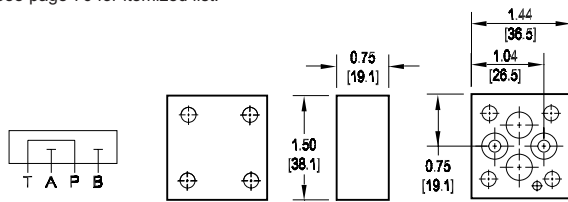
* Plug not supplied for metric gauge port.



Series Circuit Cover Plate: P to T

Cover Plate mounting hardware is supplied.

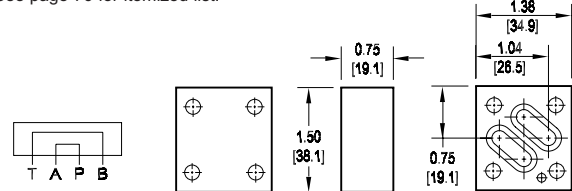
See page 76 for itemized list.



Crossover Cover Plate: P to A; B to T

Cover Plate mounting hardware is supplied.

See page 76 for itemized list.



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Ordering Information

Material	Valve Pattern	Circuit	Gauge Port	Bolt Threads
----------	---------------	---------	------------	--------------

Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	

Circuit	
CPP	Parallel Circuit
CPS	Series Circuit
COP	Crossover Circuit (P to A, B to T)

Bolt Threads	
Omit for inch (UNC) bolt kit.	
M	Metric (ISO 6H) bolt kit

Valve Pattern	
D02	ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information

Gauge Port	
Required with CPP circuit. Omit on CPS and COP circuits.	
G	0.125 NPTF or 0.125 BSPT (M option)

Daman Products Company, Inc.

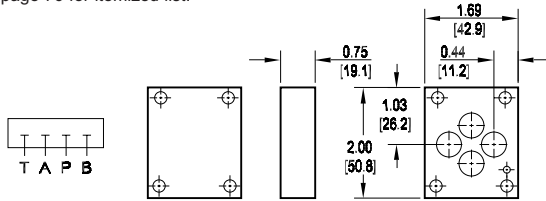
1811 North Home Street • Mishawaka, Indiana 46545-7267 USA • North America: 800.959.7841 • Fax: 800.241.7664

International: 574.259.7841 • Fax: 574.259.7665 • Email: sales@damanifolds.com • Web: www.damanifolds.com

D03 Cover Plates

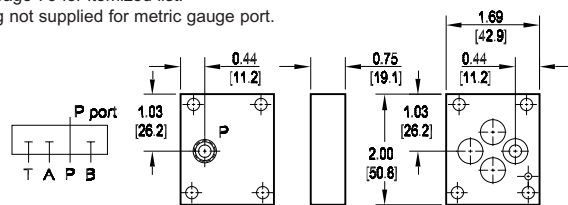
Parallel Circuit Cover Plate

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.



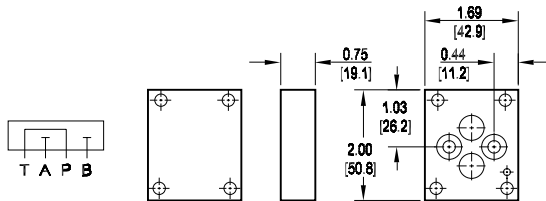
Parallel Circuit Cover Plate with Gauge Port

Cover Plate mounting hardware is supplied. *
See page 76 for itemized list.
* Plug not supplied for metric gauge port.



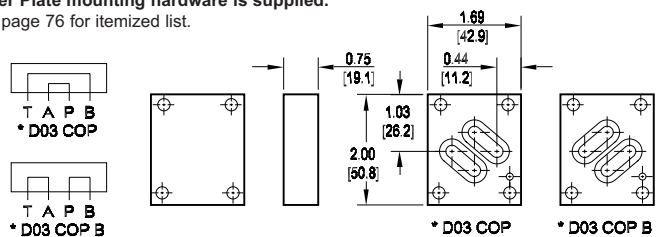
Series Circuit Cover Plate: P to T

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.



Crossover Cover Plate: P to A; B to T or P to B; A to T

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.



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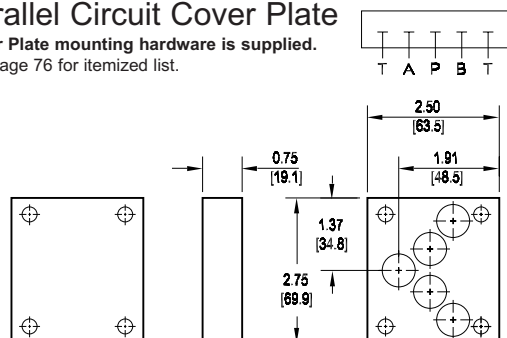
Ordering Information

Material		Valve Pattern		Circuit		Gauge Port		Bolt Threads																																			
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D03</td><td>ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information</td></tr></table>		Valve Pattern		D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information	<table><tr><th colspan="2">Circuit</th></tr><tr><td>CPP</td><td>Parallel Circuit</td></tr><tr><td>CPS</td><td>Series Circuit</td></tr><tr><td>COP</td><td>Crossover Circuit (P to A, B to T)</td></tr><tr><td>COPB</td><td>Crossover Circuit (P to B, A to T)</td></tr></table>		Circuit		CPP	Parallel Circuit	CPS	Series Circuit	COP	Crossover Circuit (P to A, B to T)	COPB	Crossover Circuit (P to B, A to T)	<table><tr><th colspan="2">Gauge Port</th></tr><tr><td colspan="2">Available with parallel circuit only. Omit if not required.</td></tr><tr><td>G</td><td>0.125 NPTF or 0.125 BSPT (M option)</td></tr></table>		Gauge Port		Available with parallel circuit only. Omit if not required.		G	0.125 NPTF or 0.125 BSPT (M option)	<table><tr><th colspan="2">Bolt Threads</th></tr><tr><td colspan="2">Omit for inch (UNC) bolt kit.</td></tr><tr><td>M</td><td>Metric (ISO 6H) bolt kit</td></tr></table>		Bolt Threads		Omit for inch (UNC) bolt kit.		M	Metric (ISO 6H) bolt kit
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Bolt Threads																																											
Omit for inch (UNC) bolt kit.																																											
M	Metric (ISO 6H) bolt kit																																										

D05 Cover Plates

Parallel Circuit Cover Plate

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.

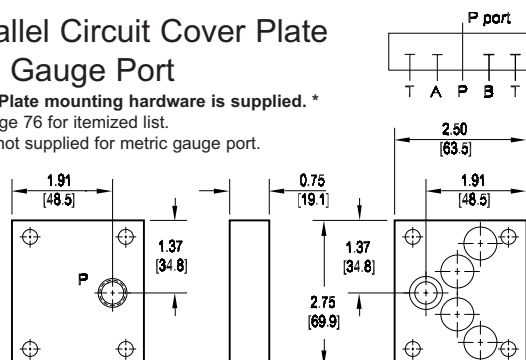


Parallel Circuit Cover Plate with Gauge Port

Cover Plate mounting hardware is supplied. *

See page 76 for itemized list.

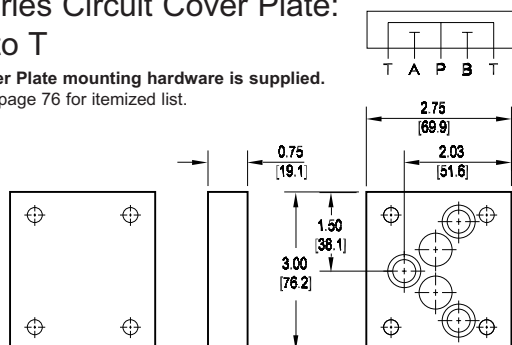
* Plug not supplied for metric gauge port.



Series Circuit Cover Plate: P to T

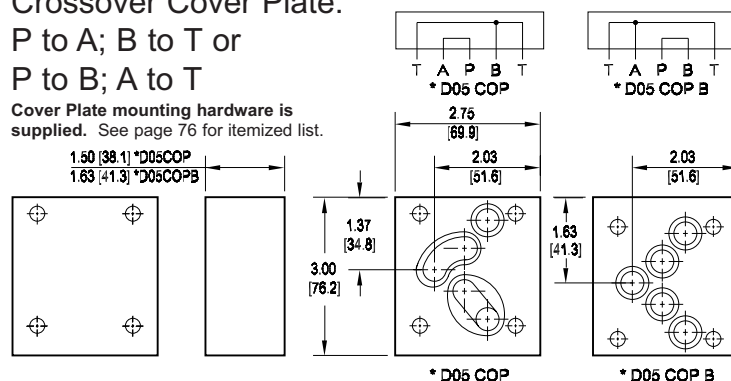
Cover Plate mounting hardware is supplied.

See page 76 for itemized list.



Crossover Cover Plate: P to A; B to T or P to B; A to T

Cover Plate mounting hardware is supplied. See page 76 for itemized list.



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Ordering Information

Material	Valve Pattern	Circuit	Gauge Port	Bolt Threads
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Material	
A	Aluminum - 6061-T6 CPP, CPS • 3000 [†] psi • 20.7 MPa COP, COPB • 1500 [†] psi • 10.3 MPa
D	Ductile Iron - D4512 CPP, CPS • 5000 [†] psi • 34.5 MPa COP, COPB • 3000 [†] psi • 20.7 MPa
[†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	

Circuit	
CPP	Parallel Circuit
CPS	Series Circuit
COP	Crossover Circuit (P to A, B to T)
COPB	Crossover Circuit (P to B, A to T)

Bolt Threads	
Omit for inch (UNC) bolt kit.	
M	Metric (ISO 6H) bolt kit

Valve Pattern	
D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Gauge Port	
Available with parallel circuit only. Omit if not required.	
G	0.250 NPTF or 0.250 BSPT (M option)

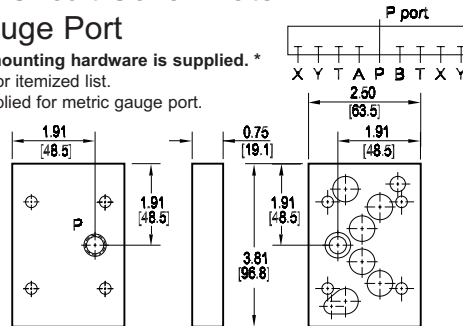
D05 Cover Plates with Pilot Ports

Parallel Circuit Cover Plate with Gauge Port

Cover Plate mounting hardware is supplied. *

See page 76 for itemized list.

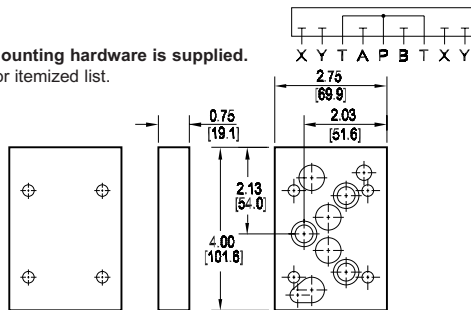
* Plug not supplied for metric gauge port.



Series Circuit Cover Plate: P to T

Cover Plate mounting hardware is supplied.

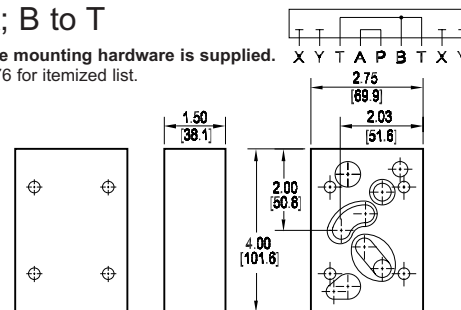
See page 76 for itemized list.



Crossover Cover Plate: P to A; B to T

Cover Plate mounting hardware is supplied.

See page 76 for itemized list.



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Ordering Information

Material	Valve Pattern	Circuit	Gauge Port	Bolt Threads
----------	---------------	---------	------------	--------------

Material	
A	Aluminum - 6061-T6 CPP, CPS • 3000 [†] psi • 20.7 MPa COP • 1500 [†] psi • 10.3 MPa
D	Ductile Iron - D4512 CPP, CPS • 5000 [†] psi • 34.5 MPa COP • 3000 [†] psi • 20.7 MPa

[†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit	
CPP	Parallel Circuit
CPS	Series Circuit
COP	Crossover Circuit (P to A, B to T)

Bolt Threads	
	Omit for inch (UNC) bolt kit.
M	Metric (ISO 6H) bolt kit

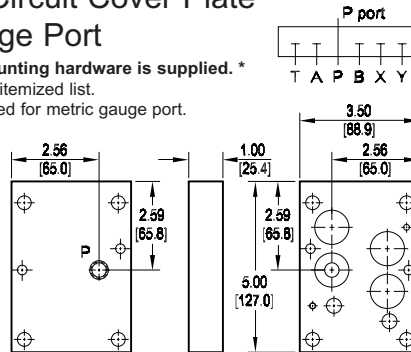
Valve Pattern	
D05H	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B See Technical Information

Gauge Port	
	Required with parallel circuit. Omit on S and COP circuits.
G	0.250 NPTF or 0.250 BSPT (M option)

D07 Cover Plates

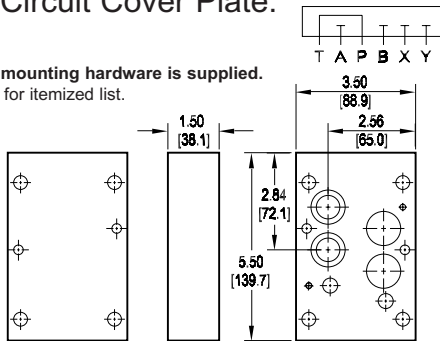
Parallel Circuit Cover Plate with Gauge Port

Cover Plate mounting hardware is supplied. *
See page 76 for itemized list.
* Plug not supplied for metric gauge port.



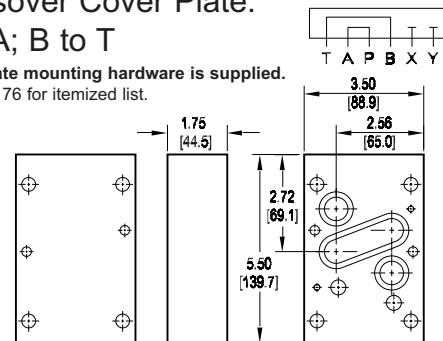
Series Circuit Cover Plate: P to T

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.



Crossover Cover Plate: P to A; B to T

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.



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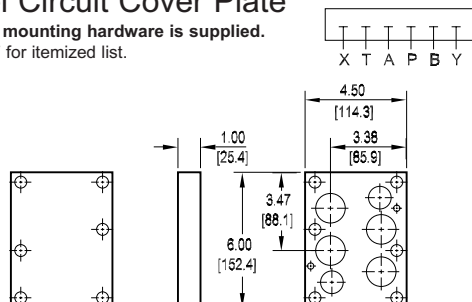
Ordering Information

Material		Valve Pattern		Circuit		Gauge Port		Bolt Threads	
Material		Valve Pattern		Circuit		Gauge Port		Bolt Threads	
A	Aluminum - 6061-T6 CPP, CPS • 3000 [†] psi • 20.7 MPa COP • 2000 [†] psi • 10.3 MPa			CPP	Parallel Circuit			Omit for inch (UNC) bolt kit.	
D	Ductile Iron - D4512 CPP, CPS • 5000 [†] psi • 34.5 MPa COP • 4000 [†] psi • 20.7 MPa			CPS	Series Circuit				
				COP	Crossover Circuit (P to A, B to T)				
[†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.								M Metric (ISO 6H) bolt kit	
		D07 ISO 4401-07-06 NFFPA T3.5.1-D07 See Tech Information				G 0.250 NPTF or 0.250 BSPT (M option)			

D08 Cover Plates

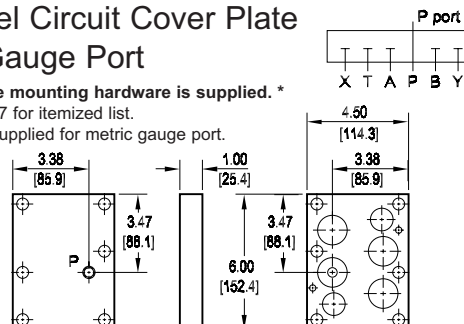
Parallel Circuit Cover Plate

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



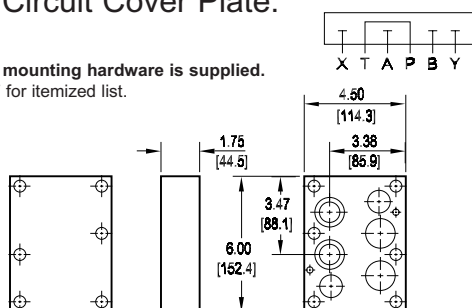
Parallel Circuit Cover Plate with Gauge Port

Cover Plate mounting hardware is supplied. *
See page 77 for itemized list.
* Plug not supplied for metric gauge port.



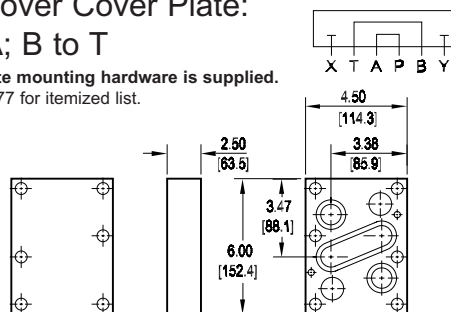
Series Circuit Cover Plate: P to T

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Crossover Cover Plate: P to A; B to T

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



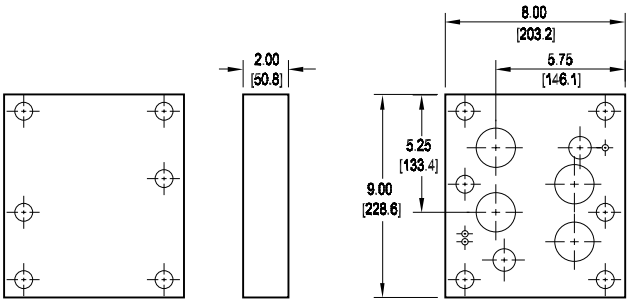
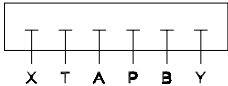
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Ordering Information

Material		Valve Pattern		Circuit		Gauge Port		Bolt Threads																																	
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 CPP, CPS • 3000[†] psi • 20.7 MPa COP • 2000[†] psi • 10.3 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 CPP, CPS • 5000[†] psi • 34.5 MPa COP • 4000[†] psi • 20.7 MPa</td></tr><tr><td colspan="2">[†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 CPP, CPS • 3000 [†] psi • 20.7 MPa COP • 2000 [†] psi • 10.3 MPa	D	Ductile Iron - D4512 CPP, CPS • 5000 [†] psi • 34.5 MPa COP • 4000 [†] psi • 20.7 MPa	[†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D08</td><td>ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information</td></tr></table>		Valve Pattern		D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information	<table><tr><th colspan="2">Circuit</th></tr><tr><td>CPP</td><td>Parallel Circuit</td></tr><tr><td>CPS</td><td>Series Circuit</td></tr><tr><td>COP</td><td>Crossover Circuit (P to A, B to T)</td></tr></table>		Circuit		CPP	Parallel Circuit	CPS	Series Circuit	COP	Crossover Circuit (P to A, B to T)	<table><tr><th colspan="2">Gauge Port</th></tr><tr><td colspan="2">Available with parallel circuit only. Omit if not required.</td></tr><tr><td>G</td><td>0.250 NPTF or 0.250 BSPT (M option)</td></tr></table>		Gauge Port		Available with parallel circuit only. Omit if not required.		G	0.250 NPTF or 0.250 BSPT (M option)	<table><tr><th colspan="2">Bolt Threads</th></tr><tr><td colspan="2">Omit for inch (UNC) bolt kit.</td></tr><tr><td>M</td><td>Metric (ISO 6H) bolt kit</td></tr></table>		Bolt Threads		Omit for inch (UNC) bolt kit.		M	Metric (ISO 6H) bolt kit
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Bolt Threads																																									
Omit for inch (UNC) bolt kit.																																									
M	Metric (ISO 6H) bolt kit																																								

D10 Cover Plates

Parallel Circuit Cover Plate
Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



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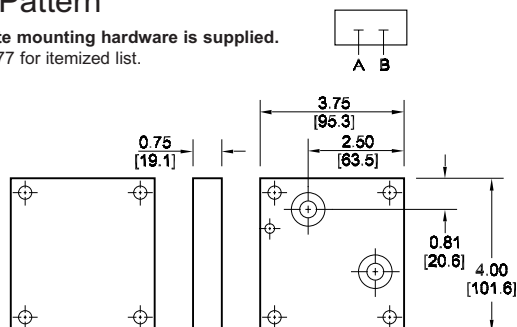
Ordering Information

Material		Valve Pattern		Circuit		Bolt Threads																							
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D10</td><td>ISO 4401-10-08 NFA T3.5.1-D10 See Tech Information</td></tr></table>		Valve Pattern		D10	ISO 4401-10-08 NFA T3.5.1-D10 See Tech Information	<table><tr><th colspan="2">Circuit</th></tr><tr><td>CPP</td><td>Parallel Circuit</td></tr></table>		Circuit		CPP	Parallel Circuit	<table><tr><th colspan="2">Bolt Threads</th></tr><tr><td colspan="2">Omit for inch (UNC) bolt kit.</td></tr><tr><td>M</td><td>Metric (ISO 6H) bolt kit</td></tr></table>		Bolt Threads		Omit for inch (UNC) bolt kit.		M	Metric (ISO 6H) bolt kit
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D	Ductile Iron - D4512 5000† psi • 34.5 MPa																												
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.																													
Valve Pattern																													
D10	ISO 4401-10-08 NFA T3.5.1-D10 See Tech Information																												
Circuit																													
CPP	Parallel Circuit																												
Bolt Threads																													
Omit for inch (UNC) bolt kit.																													
M	Metric (ISO 6H) bolt kit																												

2F06, 2F07 Flow Control Cover Plates

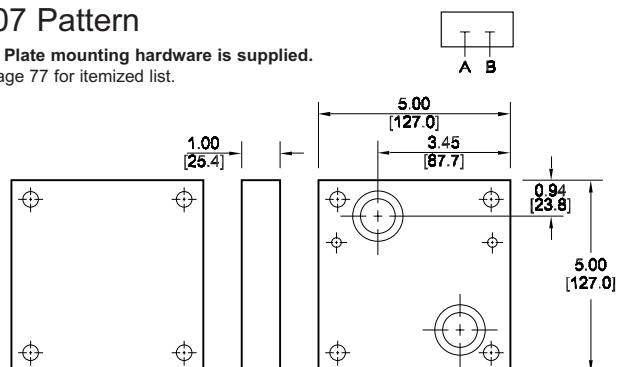
Parallel Circuit Cover Plate 2F06 Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Parallel Circuit Cover Plate 2F07 Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



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Ordering Information

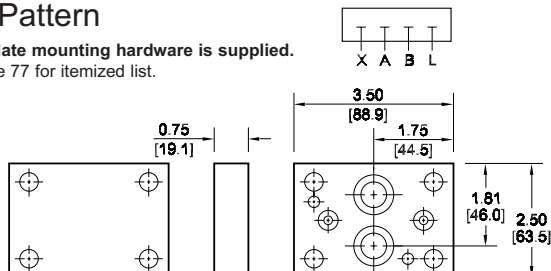
Material		Valve Pattern		Circuit		Bolt Threads																									
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>2F06</td><td>ISO 6263-06-05 NFPA T3.5.1-2F06 See Tech Information</td></tr><tr><td>2F07</td><td>ISO 6263-07-09 NFPA T3.5.1-2F07 See Tech Information</td></tr></table>		Valve Pattern		2F06	ISO 6263-06-05 NFPA T3.5.1-2F06 See Tech Information	2F07	ISO 6263-07-09 NFPA T3.5.1-2F07 See Tech Information	<table><tr><th colspan="2">Circuit</th></tr><tr><td>CPP</td><td>Parallel Circuit</td></tr></table>		Circuit		CPP	Parallel Circuit	<table><tr><th colspan="2">Bolt Threads</th></tr><tr><td colspan="2">Omit for inch (UNC) bolt kit.</td></tr><tr><td>M</td><td>Metric (ISO 6H) bolt kit</td></tr></table>		Bolt Threads		Omit for inch (UNC) bolt kit.		M	Metric (ISO 6H) bolt kit
Material																															
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D	Ductile Iron - D4512 5000† psi • 34.5 MPa																														
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.																															
Valve Pattern																															
2F06	ISO 6263-06-05 NFPA T3.5.1-2F06 See Tech Information																														
2F07	ISO 6263-07-09 NFPA T3.5.1-2F07 See Tech Information																														
Circuit																															
CPP	Parallel Circuit																														
Bolt Threads																															
Omit for inch (UNC) bolt kit.																															
M	Metric (ISO 6H) bolt kit																														

P06, P08, P10 Pressure Control Cover Plates

Parallel Circuit Cover Plate

P06 Pattern

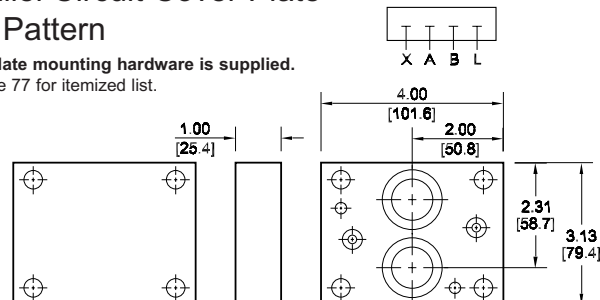
Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Parallel Circuit Cover Plate

P08 Pattern

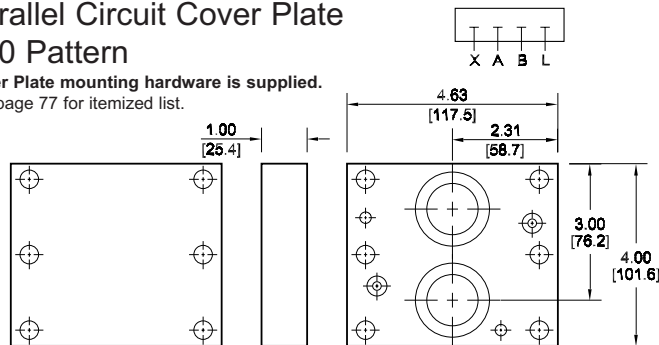
Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Parallel Circuit Cover Plate

P10 Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



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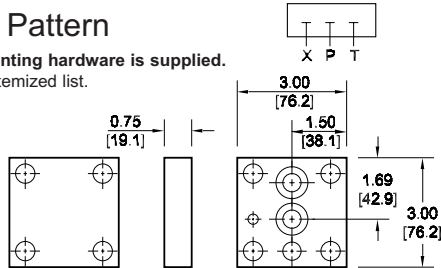
Ordering Information

Material		Valve Pattern		Circuit		Bolt Threads																									
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td rowspan="3">P06</td><td>ISO 6264-06-07 ISO 5781-06-07 NFFPA T3.5.1-[R]P06 See Tech Information</td></tr><tr><td>ISO 6264-08-11 ISO 5781-08-10 NFFPA T3.5.1-[R]P08 See Tech Information</td></tr><tr><td>ISO 6264-10-15 ISO 5781-10-13 NFFPA T3.5.1-[R]P10 See Tech Information</td></tr></table>		Valve Pattern		P06	ISO 6264-06-07 ISO 5781-06-07 NFFPA T3.5.1-[R]P06 See Tech Information	ISO 6264-08-11 ISO 5781-08-10 NFFPA T3.5.1-[R]P08 See Tech Information	ISO 6264-10-15 ISO 5781-10-13 NFFPA T3.5.1-[R]P10 See Tech Information	<table><tr><th colspan="2">Circuit</th></tr><tr><td>CPP</td><td>Parallel Circuit</td></tr></table>		Circuit		CPP	Parallel Circuit	<table><tr><th colspan="2">Bolt Threads</th></tr><tr><td colspan="2">Omit for inch (UNC) bolt kit.</td></tr><tr><td>M</td><td>Metric (ISO 6H) bolt kit</td></tr></table>		Bolt Threads		Omit for inch (UNC) bolt kit.		M	Metric (ISO 6H) bolt kit
Material																															
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Valve Pattern																															
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	ISO 6264-08-11 ISO 5781-08-10 NFFPA T3.5.1-[R]P08 See Tech Information																														
	ISO 6264-10-15 ISO 5781-10-13 NFFPA T3.5.1-[R]P10 See Tech Information																														
Circuit																															
CPP	Parallel Circuit																														
Bolt Threads																															
Omit for inch (UNC) bolt kit.																															
M	Metric (ISO 6H) bolt kit																														

R06, R08, I08, R10, I10 Relief Valve Cover Plates

Parallel Circuit Cover Plate R06 (I06) Pattern

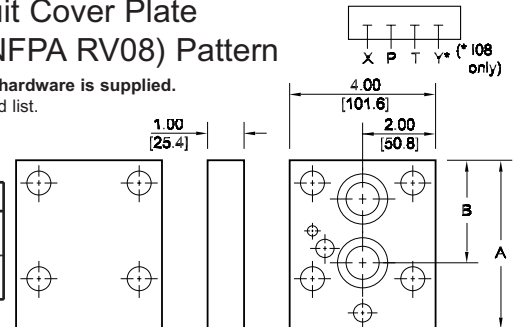
Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Parallel Circuit Cover Plate R08 or I08 (NFPA RV08) Pattern

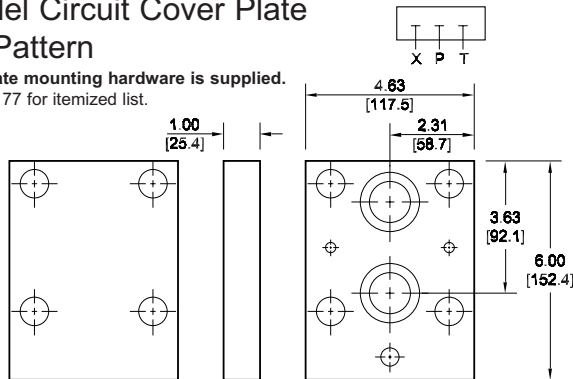
Cover Plate mounting hardware is supplied.
See page 77 for itemized list.

Dimension	A	B
R08CPP	4.63 [117.5]	2.81 [71.4]
I08CPP	4.00 [101.6]	2.56 [65.1]



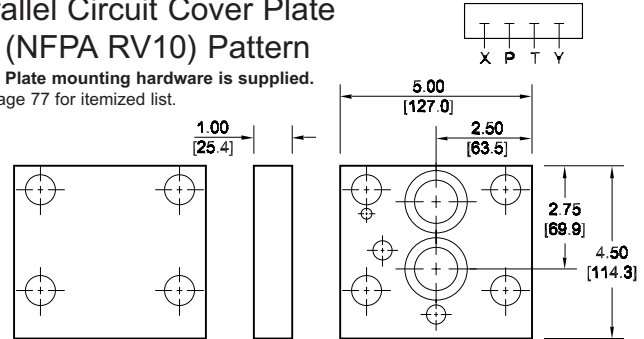
Parallel Circuit Cover Plate R10 Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Parallel Circuit Cover Plate I10 (NFPA RV10) Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



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Ordering Information

Material	Valve Pattern	Circuit	Bolt Threads
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern	
R06	ISO 6264-06-09 NFPA T3.5.1-R06 See Tech Information
R08	ISO 6264-08-13 NFPA T3.5.1-R08 See Tech Information
I08	NFPA T3.5.1-RV08 See Tech Information
R10	ISO 6264-10-17 NFPA T3.5.1-R10 See Tech Information
I10	NFPA T3.5.1-RV10 See Tech Information

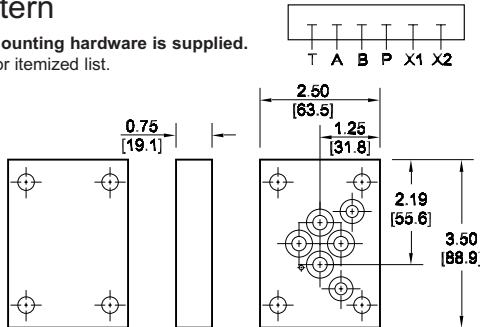
Circuit	
CPP	Parallel Circuit

Bolt Threads	
Omit for inch (UNC) bolt kit.	
M	Metric (ISO 6H) bolt kit

S04, S06 Servo Valve Cover Plates

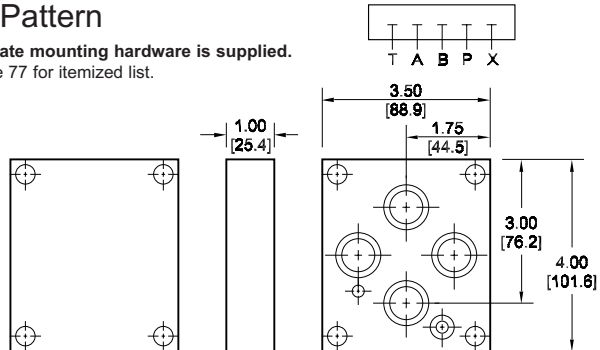
Parallel Circuit Cover Plate S04 Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Parallel Circuit Cover Plate S06 Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



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Ordering Information

Material		Valve Pattern		Circuit		Bolt Threads	
Material				Circuit			
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa			CPP	Parallel Circuit		
D	Ductile Iron - D4512 5000† psi • 34.5 MPa						
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.							
		Valve Pattern				Bolt Threads	
		S04 ISO 10372-04-04 Daman std. S04 See Tech Information				Omit for inch (UNC) bolt kit.	
		S06 ISO 10372-06-04 Daman std. S04 See Tech Information				M	Metric (ISO 6H) bolt kit

Cover Plate Mounting Hardware

Part no.	Pg.	GA port Plug	Viton O-rings, 75 duro.	Mounting Screws	Locating Pins
* D02 CP P G * D02 CP S * D02 COP	65	(1) 0.12-27 NPTF n/a n/a	(4) -010 (4) -010 (2) -015	(4) UNC #10-24 x 1.00 long SHCS	(1) 0.12 dia x 0.25 long
* D02 CP P G M * D02 CP S M * D02 COP M	65	n/a n/a n/a	(4) -010 (4) -010 (2) -015	(4) ISO 6H M5-0.8 x 25mm SHCS	
* D03 CP P * D03 CP P G * D03 CP S * D03 COP * D03 COPB	66	n/a (1) 0.12-27 NPTF n/a n/a n/a	(4) -012 (4) -012 (4) -012 (2) -016 (2) -016	(4) UNC #10-24 x 1.00 long SHCS	(1) 0.12 dia x 0.25 long
* D03 CP P M * D03 CP P G M * D03 CP S M * D03 COP M * D03 COPB M	66	n/a n/a n/a n/a n/a	(4) -012 (4) -012 (4) -012 (2) -016 (2) -016	(4) ISO 6H M5-0.8 x 25mm SHCS	
* D05 CP P * D05 CP P G * D05 CP S * D05 COP * D05 COPB	67	n/a (1) 0.25-18 NPTF n/a n/a n/a	(5) -014 (5) -014 (5) -014 (1) -014; (2) -022 (5) -014	(4) UNC 0.25-20 x 1.25 long SHCS (4) UNC 0.25-20 x 1.25 long SHCS (4) UNC 0.25-20 x 1.25 long SHCS (4) UNC 0.25-20 x 2.00 long SHCS (4) UNC 0.25-20 x 2.00 long SHCS	n/a
* D05 CP P M * D05 CP P G M * D05 CP S M * D05 COP M * D05 COPB M	67	n/a n/a n/a n/a n/a	(5) -014 (5) -014 (5) -014 (1) -014; (2) -022 (5) -014	(4) ISO 6H M6-1.0 x 30mm SHCS (4) ISO 6H M6-1.0 x 30mm SHCS (4) ISO 6H M6-1.0 x 30mm SHCS (4) ISO 6H M6-1.0 x 50mm SHCS (4) ISO 6H M6-1.0 x 50mm SHCS	
* D05H CP P G * D05H CP S * D05H COP	68	(1) 0.25-18 NPTF n/a n/a	(1) -011; (6) -014; (1) -016 (1) -011; (6) -014; (1) -016 (1) -011; (2) -014; (1) -016; (2) -022	(4) UNC 0.25-20 x 1.25 long SHCS (4) UNC 0.25-20 x 1.25 long SHCS (4) UNC 0.25-20 x 2.00 long SHCS	n/a
* D05H CP P G M * D05H CP S M * D05H COP M	68	n/a n/a n/a	(1) -011; (6) -014; (1) -016 (1) -011; (6) -014; (1) -016 (1) -011; (2) -014; (1) -016; (2) -022	(4) ISO 6H M6-1.0 x 30mm SHCS (4) ISO 6H M6-1.0 x 30mm SHCS (4) ISO 6H M6-1.0 x 50mm SHCS	
* D07 CP P G * D07 CP S * D07 COP	69	(1) 0.25-18 NPTF n/a n/a	(2) -011; (4) -210 (2) -011; (4) -210 (2) -011; (2) -210; (1) -225	(4) UNC 0.38-16 x 1.75 long and (2) UNC 0.25-20 x 1.50 long SHCS (4) UNC 0.38-16 x 2.00 long and (2) UNC 0.25-20 x 2.00 long SHCS (4) UNC 0.38-16 x 2.50 long and (2) UNC 0.25-20 x 2.25 long SHCS	(2) 0.12 dia x 0.25 long
* D07 CP P G M * D07 CP S M * D07 COP M	69	n/a n/a n/a	(2) -011; (4) -210 (2) -011; (4) -210 (2) -011; (2) -210; (1) -225	(4) ISO 6H M10-1.5 x 40mm and (2) ISO 6H M6-1.0 x 35mm SHCS (4) ISO 6H M10-1.5 x 50mm and (2) ISO 6H M6-1.0 x 50mm SHCS (4) ISO 6H M10-1.5 x 60mm and (2) ISO 6H M6-1.0 x 55mm SHCS	

Cover Plate Mounting Hardware

Part no.	Pg.	GA port Plug	Viton O-rings, 75 duro.	Mounting Screws	Locating Pins
* D08 CP P * D08 CP P G * D08 CP S * D08 COP	70	n/a (1) 0.25-18 NPTF n/a n/a	(2) -210; (4) -215 (2) -210; (4) -215 (2) -210; (4) -215 (2) -210; (2) -215; (1) -231	(6) UNC 0.50-13 x 1.75 long SHCS (6) UNC 0.50-13 x 1.75 long SHCS (6) UNC 0.50-13 x 2.50 long SHCS (6) UNC 0.50-13 x 3.50 long SHCS	(2) 0.25 dia x 0.50 long
* D08 CP P M * D08 CP P G M * D08 CP S M * D08 COP M	70	n/a n/a n/a n/a	(2) -210; (4) -215 (2) -210; (4) -215 (2) -210; (4) -215 (2) -210; (2) -215; (1) -231	(6) ISO 6H M12-1.75 x 45mm SHCS (6) ISO 6H M12-1.75 x 45mm SHCS (6) ISO 6H M12-1.75 x 65mm SHCS (6) ISO 6H M12-1.75 x 90mm SHCS	
* D10 CP P * D10 CP P M	71	n/a n/a	(2) -210; (4) -222 (2) -210; (4) -222	(6) UNC 0.75-10 x 3.25 long SHCS (6) ISO 6H M20-2.5 x 80mm SHCS	(2) 0.25 dia x 0.50 long
* 2F06 CP P * 2F07 CP P	72	n/a n/a	(2) -018 (2) -215	(4) UNC 0.31-18 x 1.25 long SHCS (4) UNC 0.38-16 x 1.75 long SHCS	(1) 0.25 d. x 0.50 long (2) 0.25 d. x 0.50 long
* 2F06 CP P M * 2F07 CP P M	72	n/a n/a	(2) -018 (2) -215	(4) ISO 6H M8-1.25 x 35mm SHCS (4) ISO 6H M10-1.5 x 45mm SHCS	(1) 0.25 d. x 0.50 long (2) 0.25 d. x 0.50 long
* P06 CP P * P08 CP P * P10 CP P	73	n/a n/a n/a	(2) -011; (2) -018 (2) -011; (2) -215 (2) -011; (2) -220	(4) UNC 0.38-16 x 1.50 long SHCS (4) UNC 0.38-16 x 1.50 long SHCS (6) UNC 0.38-16 x 1.75 long SHCS	(2) 0.25 dia x 0.50 long
* P06 CP P M * P08 CP P M * P10 CP P M	73	n/a n/a n/a	(2) -011; (2) -018 (2) -011; (2) -215 (2) -011; (2) -220	(4) ISO 6H M10-1.5 x 35mm SHCS (4) ISO 6H M10-1.5 x 40mm SHCS (6) ISO 6H M10-1.5 x 45mm SHCS	(2) 0.25 dia x 0.50 long
* R06 CP P * R08 CP P * R10 CP P	74	n/a n/a n/a	(1) -012; (2) -018 (1) -012; (2) -216 (1) -012; (2) -220	(4) UNC 0.50-13 x 1.50 long SHCS (4) UNC 0.63-11 x 2.00 long SHCS (4) UNC 0.75-10 x 2.25 long SHCS	(1) 0.25 d. x 0.50 long (1) 0.25 d. x 0.50 long (2) 0.25 d. x 0.50 long
* R06 CP P M * R08 CP P M * R10 CP P M	74	n/a n/a n/a	(1) -012; (2) -018 (1) -012; (2) -216 (1) -012; (2) -220	(4) ISO 6H M12-1.75 x 35mm SHCS (4) ISO 6H M16-2 x 50mm SHCS (4) ISO 6H M20-2.5 x 55mm SHCS	(1) 0.25 d. x 0.50 long (1) 0.25 d. x 0.50 long (2) 0.25 d. x 0.50 long
* I08 CP P * I10 CP P	74	n/a n/a	(2) -012; (2) -216 (2) -012; (2) -220	(4) UNC 0.63-11 x 2.00 long SHCS (4) UNC 0.75-10 x 2.25 long SHCS	(1) 0.25 dia x 0.50 long
* I08 CP P M * I10 CP P M	74	n/a n/a	(2) -012; (2) -216 (2) -012; (2) -220	(4) ISO 6H M16-2 x 50mm SHCS (4) ISO 6H M20-2.5 x 55mm SHCS	(1) 0.25 dia x 0.50 long
* S04 CP P * S06 CP P	75	n/a n/a	(2) -012; (4) -013 (1) -012; (4) -019	(4) UNC 0.31-18 x 1.50 long SHCS (4) UNC 0.38-16 x 1.75 long SHCS	(1) 0.09 d. x 0.25 long (1) 0.25 d. x 0.50 long
* S04 CP P M * S06 CP P M	75	n/a n/a	(2) -012; (4) -013 (1) -012; (4) -019	(4) ISO 6H M8-1.25 x 30mm SHCS (4) ISO 6H M10-1.5 x 45mm SHCS	(1) 0.09 d. x 0.25 long (1) 0.25 d. x 0.50 long

Hydraulic Valve Manifolds Better System Design Begins with a Manifold.

VALVE ADAPTORS

Directional Valve Adaptors

Valve Adaptors for D03 Manifolds	Pages 79-80
Valve Adaptors for D05 Manifolds	Page 81
Valve Adaptors for D05 Manifolds with Pilot Ports	Page 82
Valve Adaptors for D06 Manifolds	Page 84
Valve Adaptors for D07 Manifolds	Pages 85-86
Valve Adaptors for D08 Manifolds	Pages 87-88
Valve Adaptors for D10 Manifolds	Page 90
Valve Adaptors for S04 Manifolds	Page 91

Relief Valve Adaptors

Valve Adaptors for D05H Manifolds	Page 83
Valve Adaptors for D08 Manifolds	Page 89

"Obsolete Valve" Adaptors

D03 Adaptors for Obsolete Manifolds	Pages 92-94
D05 Adaptors for Obsolete Manifolds	Page 95
D08 Adaptors for Obsolete Manifolds	Page 96
D10 Adaptors for Obsolete Manifolds	Page 97

Mounting Hardware	Pages 98-99
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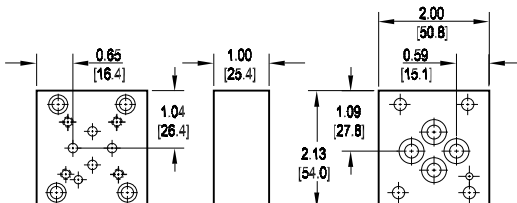
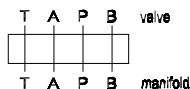
Valve Adaptors for D03 Manifolds

Adapt D02 valve to D03 manifold

Valve mtg: UNC #10-24 x 0.50 DP or
Metric M5-0.8mm ISO 6H x [12.7] DP

Adaptor mounting hardware is supplied.

See page 98 for itemized list.

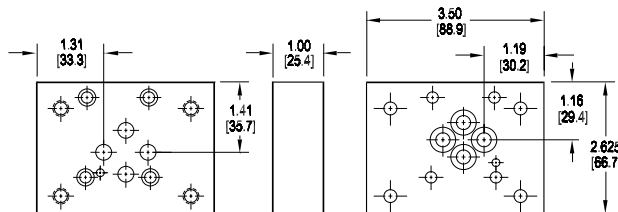


Adapt S04 valve to D03 manifold • BA oriented

Valve mtg: UNC 0.31-18 x 0.88 DP or
Metric M8 x 1.25mm ISO 6H x [22.2] DP

Adaptor mounting hardware is supplied.

See page 98 for itemized list.



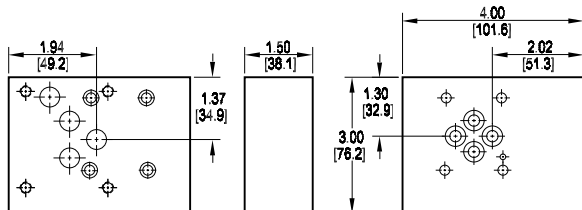
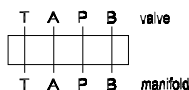
This adaptor does not orient the A & B ports on the manifold to the respective valve solenoids.

Adapt D05 valve to D03 manifold • style A

Valve mtg: UNC 0.25-20 x 0.50 DP or
Metric M6-1.0mm ISO 6H x [12.7] DP

Adaptor mounting hardware is supplied.

See page 98 for itemized list.

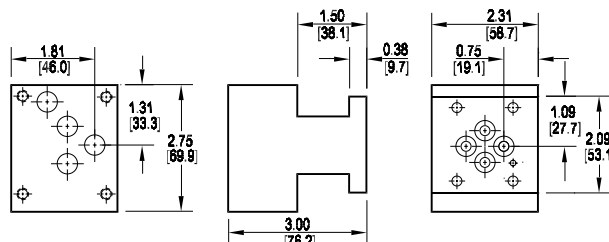
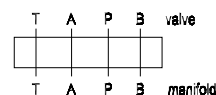


Adapt D05 valve to D03 manifold • style B

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP

Adaptor mounting hardware is supplied.

See page 98 for itemized list.



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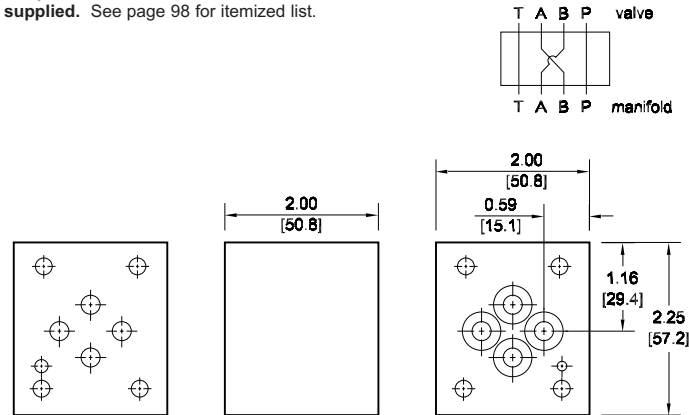
Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Style	Bolt Threads																																												
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D02</td><td>ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information</td></tr><tr><td>D05</td><td>ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information</td></tr><tr><td>S04</td><td>ISO 10372-04-04 Daman standard S04 See Tech Information</td></tr></table>	Valve Pattern		D02	ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information	D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	S04	ISO 10372-04-04 Daman standard S04 See Tech Information	<table><tr><th colspan="2">Manifold Pattern</th></tr><tr><td>D03</td><td>ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information</td></tr></table>	Manifold Pattern		D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>VA</td><td>Valve Adaptor</td></tr></table>	Product Type		VA	Valve Adaptor	<table><tr><th colspan="2">Port Orientation</th></tr><tr><td>AB</td><td>A_v common to A_m B_v common to B_m</td></tr><tr><td>BA</td><td>A_v common to B_m B_v common to A_m S04 valve pattern only.</td></tr></table>	Port Orientation		AB	A _v common to A _m B _v common to B _m	BA	A _v common to B _m B _v common to A _m S04 valve pattern only.	<table><tr><th colspan="2">D05-D03 Style</th></tr><tr><td colspan="2">Required with D05 valve pattern. Omit with D02 or S04 patterns.</td></tr><tr><td>A</td><td>Style A Low height, wide design</td></tr><tr><td>B</td><td>Style B Tall height, narrow design</td></tr></table>	D05-D03 Style		Required with D05 valve pattern. Omit with D02 or S04 patterns.		A	Style A Low height, wide design	B	Style B Tall height, narrow design	<table><tr><th colspan="2">Bolt Threads</th></tr><tr><td colspan="2">Omit for inch (UNC) bolt kit.</td></tr><tr><td>M</td><td>Metric (ISO 6H) bolt kit</td></tr></table>	Bolt Threads		Omit for inch (UNC) bolt kit.		M	Metric (ISO 6H) bolt kit
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D02	ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information																																																	
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Bolt Threads																																																		
Omit for inch (UNC) bolt kit.																																																		
M	Metric (ISO 6H) bolt kit																																																	

Valve Adaptors for D03 Manifolds

D03 A & B Port Swap Block • (BA oriented)

Adaptor hardware / interface seal kit is supplied. See page 98 for itemized list.



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Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Bolt Threads																														
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D03</td><td>ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information</td></tr></table>	Valve Pattern		D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information	<table><tr><th colspan="2">Manifold Pattern</th></tr><tr><td>D03</td><td>ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information</td></tr></table>	Manifold Pattern		D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>VA</td><td>Valve Adaptor</td></tr></table>	Product Type		VA	Valve Adaptor	<table><tr><th colspan="2">Port Orientation</th></tr><tr><td>BA</td><td>B_V common to A_m A_V common to B_m D03 valve pattern only.</td></tr></table>	Port Orientation		BA	B _V common to A _m A _V common to B _m D03 valve pattern only.	<table><tr><th colspan="2">Bolt Threads</th></tr><tr><td>Omit</td><td>Mounting holes sized for 1/2 inch (UNC) bolts.</td></tr><tr><td>M</td><td>Mounting holes sized for 1/2 inch Metric (ISO 6H) bolts.</td></tr></table>	Bolt Threads		Omit	Mounting holes sized for 1/2 inch (UNC) bolts.	M	Mounting holes sized for 1/2 inch Metric (ISO 6H) bolts.
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Valve Pattern																																			
D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information																																		
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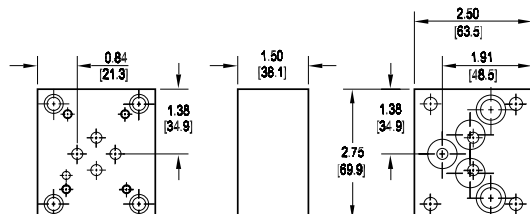
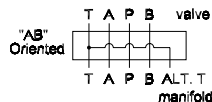
Valve Adaptors for D05 Manifolds

Adapt D03 valve to D05 manifold • AB oriented

Valve mtg: UNC #10-24 x 0.50 DP or
Metric M5-0.8mm ISO 6H x [12.7] DP

Adaptor mounting hardware is supplied.

See page 98 for itemized list.



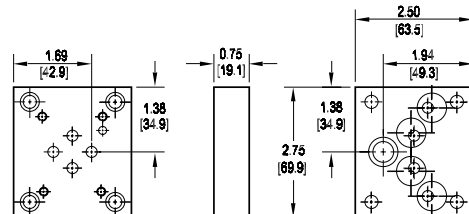
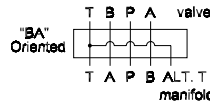
This adaptor permits the installation of a D03 valve on a D05 manifold. This adaptor, unlike *D03D05VABA*, properly orients the A & B ports on the manifold to the respective valve solenoids.

Adapt D03 valve to D05 manifold • BA oriented

Valve mtg: UNC #10-24 x 0.44 DP or
Metric M5 x 0.8mm ISO 6H x [11] DP

Adaptor mounting hardware is supplied.

See page 98 for itemized list.



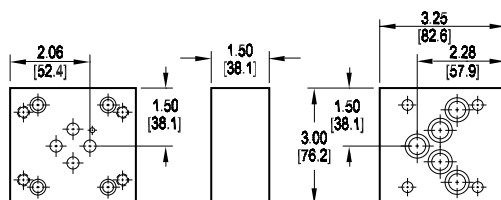
This adaptor permits the installation of a D03 valve on a D05 manifold. This adaptor, while low in cost, does not orient the A & B ports on the manifold to the respective valve solenoids.

Adapt S04 valve to D05 manifold • AB oriented

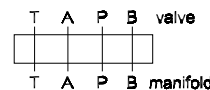
Valve mtg: UNC 0.31-18 x 0.63 DP or
Metric M8 x 1.25mm ISO 6H x [15.9] DP

Adaptor mounting hardware is supplied.

See page 98 for itemized list.



This adaptor properly orients the A & B ports on the manifold to the respective valve solenoids.



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Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Bolt Threads
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	

Manifold Pattern	
D05	ISO 4401-05-04 NFFPA T3.5.1-D05 See Tech Information

Port Orientation	
AB	A _V common to A _m B _V common to B _m
BA	B _V common to A _m A _V common to B _m D03 valve pattern only.

Valve Pattern	
D03	ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information
S04	ISO 10372-04-04 Daman standard S04 See Tech Information

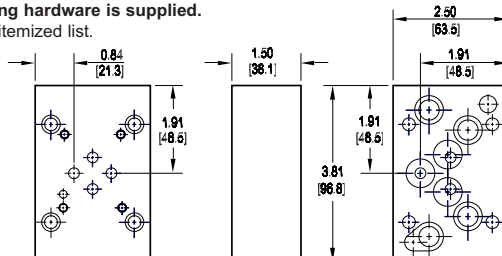
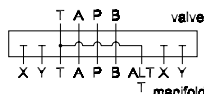
Product Type	
VA	Valve Adaptor

Bolt Threads	
Omit for inch (UNC) bolt kit.	
M	Metric (ISO 6H) bolt kit

Valve Adaptors for D05 Manifolds with Pilot Ports

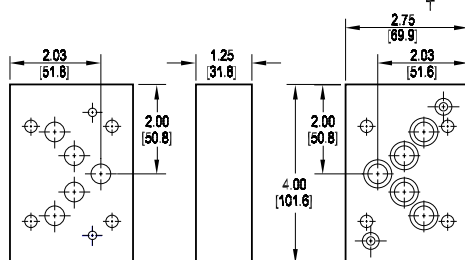
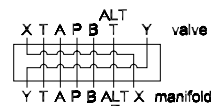
Adapt D03 valve to D05H manifold

Valve mtg: #10-24 UNC x 0.50 DP or
Metric M5-0.8mm ISO 6H x [12.7] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



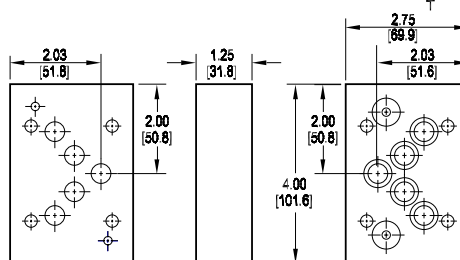
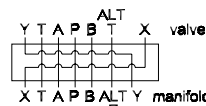
Adapt D05HE valve to D05H manifold

Adaptor interface seal kit is supplied.
See page 98 for itemized list.



Adapt D05H valve to D05HE manifold

Adaptor interface seal kit is supplied.
See page 98 for itemized list.



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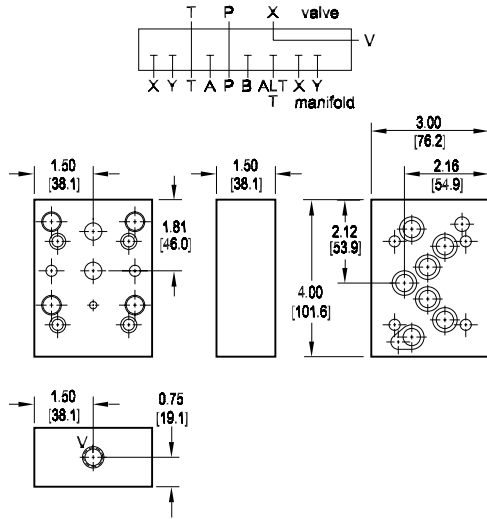
Ordering Information

Material		Valve Pattern		Manifold Pattern		Product Type		Port Orientation		Bolt Threads																					
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Valve Pattern																															
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Product Type																															
VA	Valve Adaptor																														
Bolt Threads																															
Omit for inch (UNC) bolt kit.																															
M	Metric (ISO 6H) bolt kit																														

Relief Valve Adaptors for D05(H) Manifolds

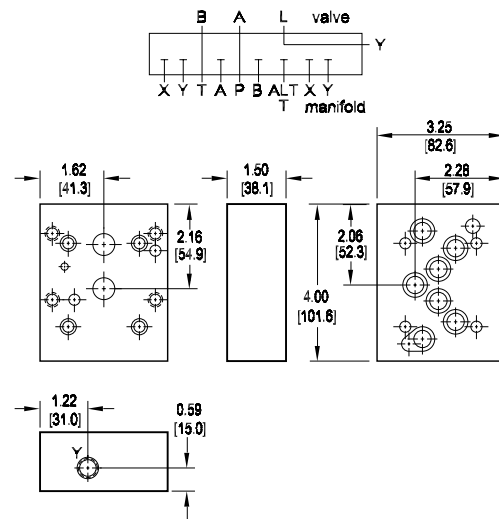
Adapt I06 (NFPA R06) valve to D05H manifold

Valve mtg: UNC 0.50-13 x 1.00 DP or
Metric M12 x 1.75mm ISO 6H x [25.4] DP
Vent port: 0.25 NPTF or 0.25 BSPT (M option).
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



Adapt P06 valve to D05H manifold

Valve mtg: UNC 0.38-16 x 1.00 DP or
Metric M10-1.5mm ISO 6H x [25.4] DP
Vent port: 0.25 NPTF or 0.25 BSPT (M option).
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



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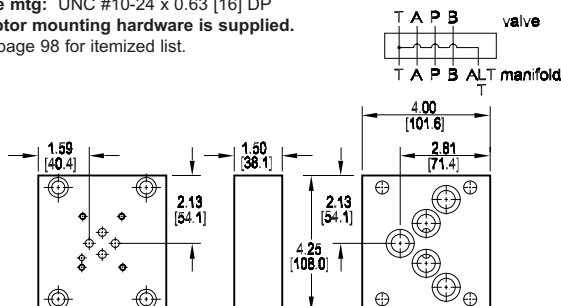
Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Bolt Threads
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern I06 ISO 6264-06-09-*.97 NFPA T3.5.1-R06 See Tech Information P06 ISO 6264-06-07-*.97 ISO 5781-06-07-0-00 NFPA T3.5.1-RP06 See Tech Information	Manifold Pattern D05H ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B See Tech Information	Product Type RVA Relief Valve Adaptor	Bolt Threads Omit for inch (UNC) bolt kit. M Metric (ISO 6H) bolt kit

Valve Adaptors for D06 Manifolds

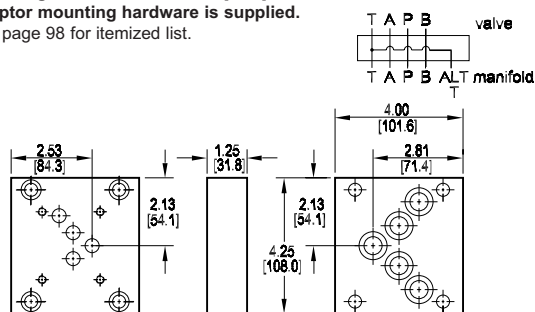
Adapt D03 valve to D06 manifold

Valve mtg: UNC #10-24 x 0.63 [16] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



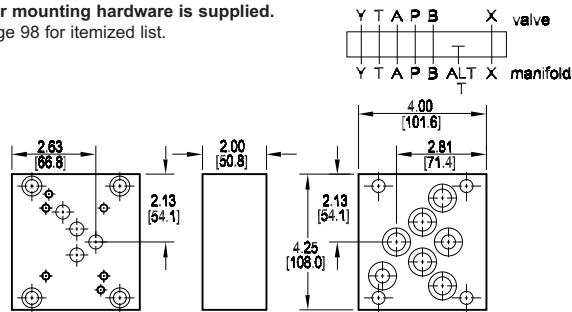
Adapt D05 valve to D06 manifold

Valve mtg: UNC 0.25-20 x 0.56 [14.2] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



Adapt D05H valve to D06H manifold

Valve mtg: UNC 0.25-20 x 0.50 [12.7] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



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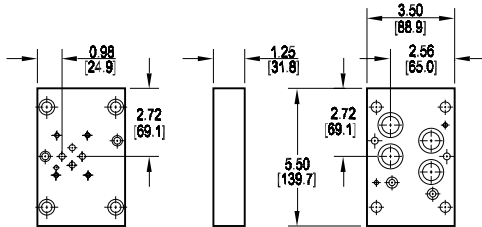
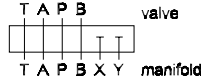
Ordering Information

Material		Valve Pattern		Manifold Pattern		Product Type		Port Orientation																																			
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Material																																											
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D06	NFPA T3.5.1-D06 (X & Y omitted)																																										
D06H	NFPA T3.5.1-D06 (X & Y included)																																										
Product Type																																											
VA	Valve Adaptor																																										
Port Orientation																																											
AB	A _V common to A _m B _V common to B _m																																										

Valve Adaptors for D07 Manifolds

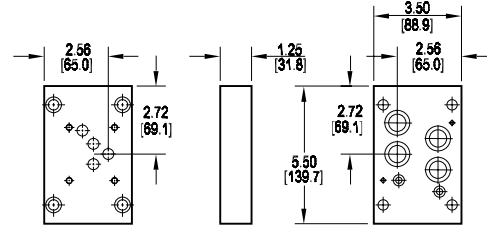
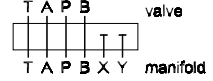
Adapt D03 valve to D07 manifold

Valve mtg: UNC #10-24 x 0.44 DP or
Metric M5-0.8mm ISO 6H x [11.1] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



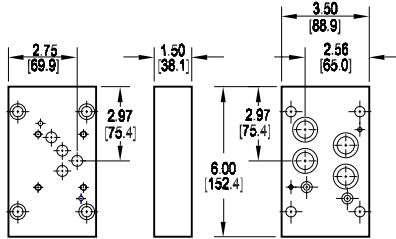
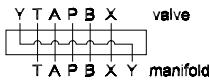
Adapt D05 valve to D07 manifold

Valve mtg: UNC 0.25-20 x 0.50 DP or
Metric M6-1.0mm ISO 6H x [12.7] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



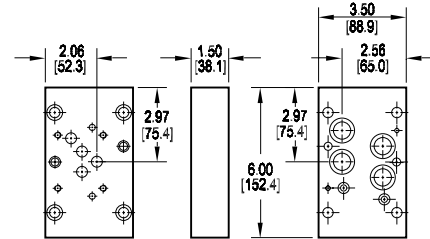
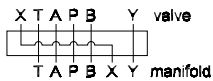
Adapt D05H valve to D07 manifold

Valve mtg: UNC 0.25-20 x 0.50 DP or
Metric M6-1.0mm ISO 6H x [12.7] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



Adapt D05HE valve to D07 manifold

Valve mtg: UNC 0.25-20 x 0.50 DP or
Metric M6-1.0mm ISO 6H x [12.7] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



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Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Bolt Threads
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	

Manifold Pattern	
D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

Port Orientation	
AB	A _V common to A _m B _V common to B _m

Valve Pattern	
See Tech Information	
D03	ISO 4401-03-02 NFPA T3.5.1-D03
D05	ISO 4401-05-04 NFPA T3.5.1-D05
D05H	(USA std) NFPA T3.5.1-D05 Alt B
D05HE	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A

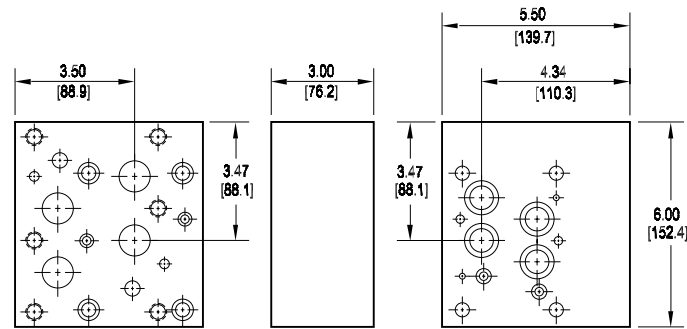
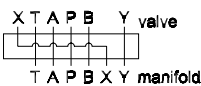
Product Type	
VA	Valve Adaptor

Bolt Threads	
Omit for inch (UNC) bolt kit.	
M	Metric (ISO 6H) bolt kit

Valve Adaptors for D07 Manifolds

Adapt D08 valve to D07 manifold

Valve mtg: UNC 0.50-13 x 1.19 DP or
Metric M12-1.75mm ISO 6H x [30.2] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



Note: This adaptor is too wide to use on any position other than station one of a multi-station manifold.

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Ordering Information

Material		Valve Pattern		Manifold Pattern		Product Type		Port Orientation		Bolt Threads																															
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D08</td><td>ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information</td></tr></table>		Valve Pattern		D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information	<table><tr><th colspan="2">Manifold Pattern</th></tr><tr><td>D07</td><td>ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information</td></tr></table>		Manifold Pattern		D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>VA</td><td>Valve Adaptor</td></tr></table>		Product Type		VA	Valve Adaptor	<table><tr><th colspan="2">Port Orientation</th></tr><tr><td>AB</td><td>A_V common to A_m B_V common to B_m</td></tr></table>		Port Orientation		AB	A _V common to A _m B _V common to B _m	<table><tr><th colspan="2">Bolt Threads</th></tr><tr><td colspan="2">Omit for inch (UNC) bolt kit.</td></tr><tr><td>M</td><td>Metric (ISO 6H) bolt kit</td></tr></table>		Bolt Threads		Omit for inch (UNC) bolt kit.		M	Metric (ISO 6H) bolt kit
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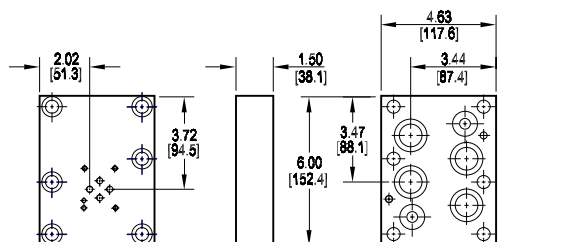
Valve Adaptors for D08 Manifolds

Adapt D03 valve to D08 manifold

Valve mtg: UNC #10-24 x 0.50 DP or
Metric M5-0.8mm ISO 6H x [12.7] DP

Adaptor mounting hardware is supplied.

See page 99 for itemized list.

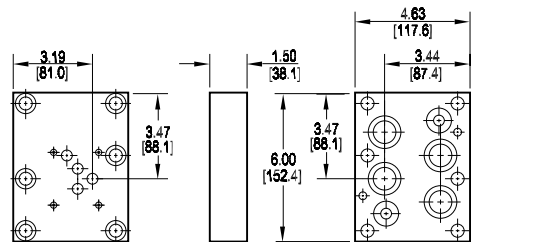


Adapt D05 valve to D08 manifold

Valve mtg: UNC 0.25-20 x 0.50 DP or
Metric M6-1.0mm ISO 6H x [12.7] DP

Adaptor mounting hardware is supplied.

See page 99 for itemized list.

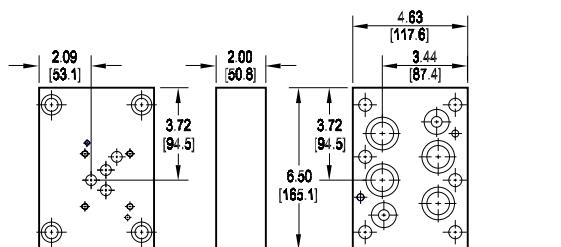


Adapt D05H valve to D08 manifold

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP

Adaptor mounting hardware is supplied.

See page 99 for itemized list.

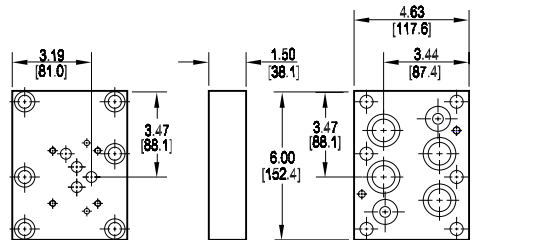


Adapt D05HE valve to D08 manifold

Valve mtg: 0.25-20 UNC x 0.50 DP or
Metric M6-1.0mm ISO 6H x [12.7] DP

Adaptor mounting hardware is supplied.

See page 99 for itemized list.



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Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Bolt Threads
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	

Manifold Pattern	
D08	ISO 4401-08-07 NFFPA T3.5.1-D08 See Tech Information

Port Orientation	
AB	A _v common to A _m B _v common to B _m

Valve Pattern	
See Tech Information	
D03	ISO 4401-03-02 NFFPA T3.5.1-D03
D05	ISO 4401-05-04 NFFPA T3.5.1-D05
D05H	(USA std) NFFPA T3.5.1-D05 Alt B
D05HE	ISO 4401-05-05 NFFPA T3.5.1-D05 Alt A

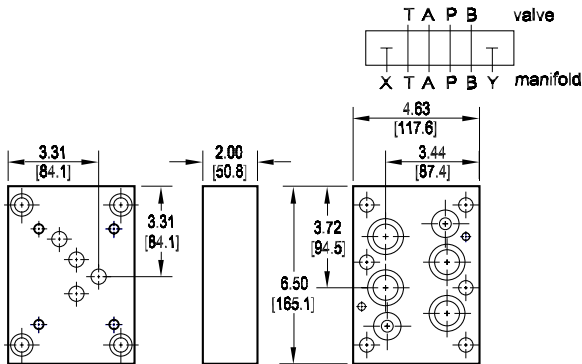
Product Type	
VA	Valve Adaptor

Bolt Threads	
Omit for inch (UNC) bolt kit.	
M	Metric (ISO 6H) bolt kit

Valve Adaptors for D08 Manifolds

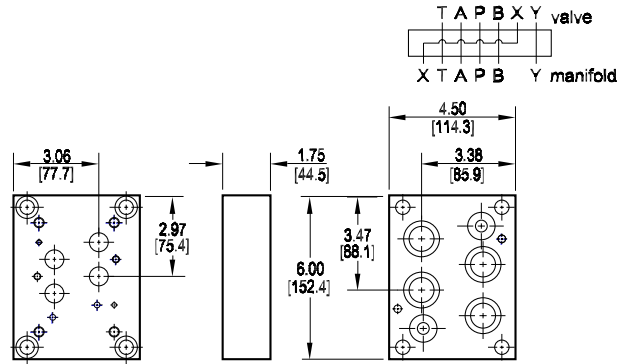
Adapt D06 valve to D08 manifold

Valve mtg: UNC 0.38-16 x 0.75 DP or
Metric M10-1.5mm ISO 6H x [19.1] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



Adapt D07 valve to D08 manifold

Valve mtg: UNC 0.38-16 x 0.75 DP or
Metric M10-1.5mm ISO 6H x [19.1] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



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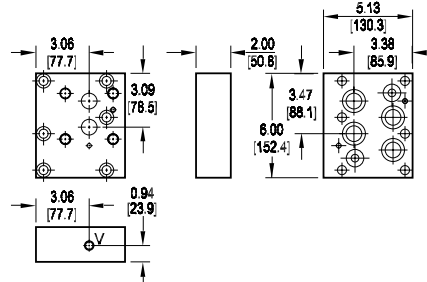
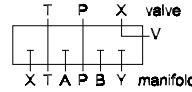
Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Bolt Threads																																
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D06</td><td>NFPA T3.5.1-D06 See Tech Information</td></tr><tr><td>D07</td><td>ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information</td></tr></table>	Valve Pattern		D06	NFPA T3.5.1-D06 See Tech Information	D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information	<table><tr><th colspan="2">Manifold Pattern</th></tr><tr><td>D08</td><td>ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information</td></tr></table>	Manifold Pattern		D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>VA</td><td>Valve Adaptor</td></tr></table>	Product Type		VA	Valve Adaptor	<table><tr><th colspan="2">Port Orientation</th></tr><tr><td>AB</td><td>A_V common to A_m B_V common to B_m</td></tr></table>	Port Orientation		AB	A _V common to A _m B _V common to B _m	<table><tr><th colspan="2">Bolt Threads</th></tr><tr><td colspan="2">Omit for inch (UNC) bolt kit.</td></tr><tr><td>M</td><td>Metric (ISO 6H) bolt kit</td></tr></table>	Bolt Threads		Omit for inch (UNC) bolt kit.		M	Metric (ISO 6H) bolt kit
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Manifold Pattern																																					
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VA	Valve Adaptor																																				
Port Orientation																																					
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Bolt Threads																																					
Omit for inch (UNC) bolt kit.																																					
M	Metric (ISO 6H) bolt kit																																				

Relief Valve Adaptors for D08 Manifolds

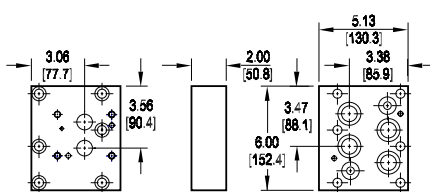
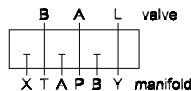
Adapt I08 (NFPA RV08) valve to D08 manifold

Valve mtg: UNC 0.63-11 x 0.94 DP or
Metric M16-2mm ISO 6H x [23.8] DP
Vent port: 0.25 NPTF or 0.25 BSPT (M option).
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



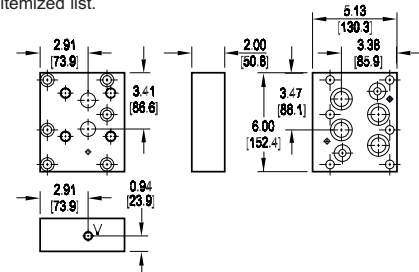
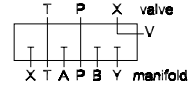
Adapt P08 valve to D08 manifold

Valve mtg: UNC 0.38-16 x 0.75 DP or
Metric M10-1.5mm ISO 6H x [19.1] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



Adapt R08 valve to D08 manifold

Valve mtg: UNC 0.63-11 x 0.94 DP or
Metric M16-2.0mm ISO 6H x [23.8] DP
Vent port: 0.25 NPTF or 0.25 BSPT (M option).
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



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Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Bolt Threads
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Manifold Pattern	
D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Valve Pattern	
See Tech Information	
I08	NFPA T3.5.1-RV08
P08	ISO 6264-08-11-*97 ISO 5781-08-10-0-00 NFPA T3.5.1-RP08
R08	ISO 6264-06-09-*97 NFPA T3.5.1-R08

Product Type	
RVA	Relief Valve Adaptor

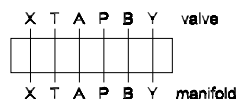
Bolt Threads	
Omit for inch (UNC) bolt kit.	
M	Metric (ISO 6H) bolt kit

Valve Adaptors for D10 Manifolds

Adapt D07 valve to D10 manifold

Valve mtg: 0.25-20 UNC x 0.75 DP and
0.38-16 UNC x 1.00 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP and
M10-1.5mm ISO 6H x [25.4] DP

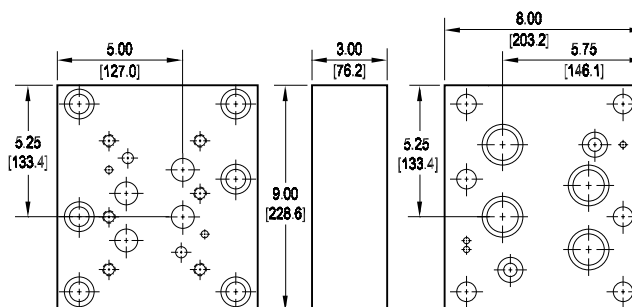
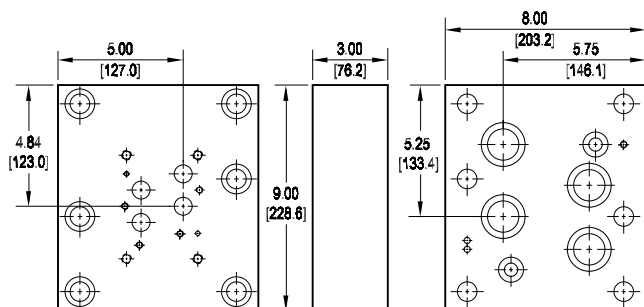
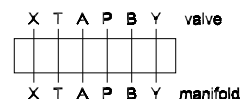
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



Adapt D08 valve to D10 manifold

Valve mtg: UNC 0.50-13 x 1.19 DP or
Metric M12-1.75mm ISO 6H x [30.2] DP

Adaptor mounting hardware is supplied.
See page 99 for itemized list.



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Ordering Information

Material		Valve Pattern		Manifold Pattern		Product Type		Port Orientation		Bolt Threads																																	
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D07</td><td>ISO 4401-07-06 NFFPA T3.5.1-D07 See Tech Information</td></tr><tr><td>D08</td><td>ISO 4401-08-07 NFFPA T3.5.1-D08 See Tech Information</td></tr></table>		Valve Pattern		D07	ISO 4401-07-06 NFFPA T3.5.1-D07 See Tech Information	D08	ISO 4401-08-07 NFFPA T3.5.1-D08 See Tech Information	<table><tr><th colspan="2">Manifold Pattern</th></tr><tr><td>D10</td><td>ISO 4401-10-08 NFFPA T3.5.1-D10 See Tech Information</td></tr></table>		Manifold Pattern		D10	ISO 4401-10-08 NFFPA T3.5.1-D10 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>VA</td><td>Valve Adaptor</td></tr></table>		Product Type		VA	Valve Adaptor	<table><tr><th colspan="2">Port Orientation</th></tr><tr><td>AB</td><td>A_V common to A_m B_V common to B_m</td></tr></table>		Port Orientation		AB	A _V common to A _m B _V common to B _m	<table><tr><th colspan="2">Bolt Threads</th></tr><tr><td colspan="2">Omit for inch (UNC) bolt kit</td></tr><tr><td>M</td><td>Metric (ISO 6H) bolt kit</td></tr></table>		Bolt Threads		Omit for inch (UNC) bolt kit		M	Metric (ISO 6H) bolt kit
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Manifold Pattern																																											
D10	ISO 4401-10-08 NFFPA T3.5.1-D10 See Tech Information																																										
Product Type																																											
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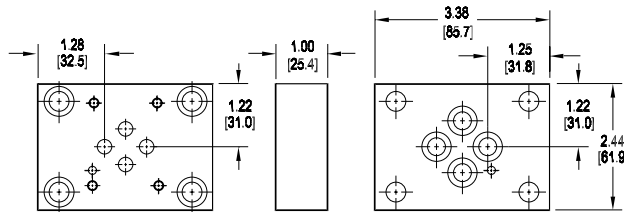
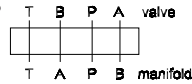
D03 / D05 Valve Adaptors for S04 Subplates

Adapt D03 valve to S04 manifold • BA oriented

Valve mtg: UNC #10-24 x 0.63 DP or
Metric M5 x 0.8mm ISO 6H x [15.9] DP

Adaptor mounting hardware is supplied.

See page 99 for itemized list.



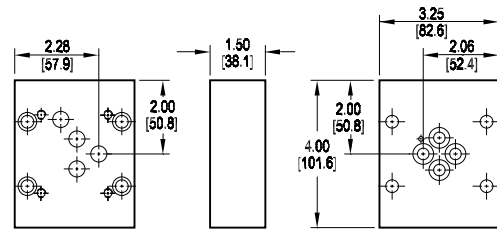
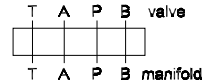
This adaptor does not orient the A & B ports on the manifold to the respective valve solenoids.

Adapt D05 valve to S04 manifold • AB oriented

Valve mtg: UNC 0.25-20 x 0.63 DP or
Metric M6 x 1.0mm ISO 6H x [15.9] DP

Adaptor mounting hardware is supplied.

See page 99 for itemized list.



This adaptor properly orients the A & B ports on the manifold to the respective valve solenoids.

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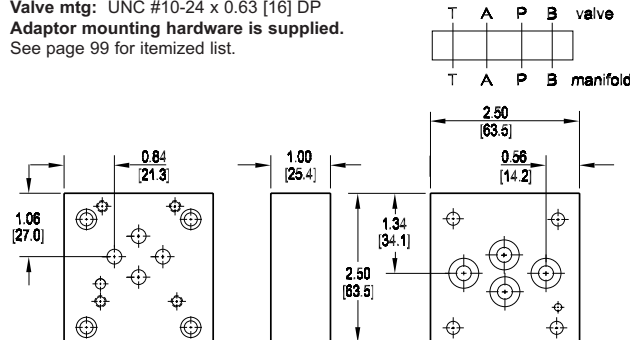
Ordering Information

Material		Valve Pattern		Manifold Pattern		Product Type		Port Orientation		Bolt Threads																					
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.				<table><tr><th colspan="2">Manifold Pattern</th></tr><tr><td>S04</td><td>ISO 10372-04-04 Daman std. S04 See Tech Information</td></tr></table>		Manifold Pattern		S04	ISO 10372-04-04 Daman std. S04 See Tech Information					<table><tr><th colspan="2">Port Orientation</th></tr><tr><td>BA</td><td>B_v common to A_m A_v common to B_m D03 valve pattern only</td></tr><tr><td>AB</td><td>A_v common to A_m B_v common to B_m D05 valve pattern only</td></tr></table>		Port Orientation		BA	B _v common to A _m A _v common to B _m D03 valve pattern only	AB	A _v common to A _m B _v common to B _m D05 valve pattern only		
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		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D03</td><td>ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information</td></tr><tr><td>D05</td><td>ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information</td></tr></table>		Valve Pattern		D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information	D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>VA</td><td>Valve Adaptor</td></tr></table>		Product Type		VA	Valve Adaptor			<table><tr><th colspan="2">Bolt Threads</th></tr><tr><td colspan="2">Omit for inch (UNC) bolt kit.</td></tr><tr><td>M</td><td>Metric (ISO 6H) bolt kit</td></tr></table>		Bolt Threads		Omit for inch (UNC) bolt kit.		M	Metric (ISO 6H) bolt kit						
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D03 to “Obsolete Valve” Adaptors

Adapt D03 valve to Racine 01Q manifold

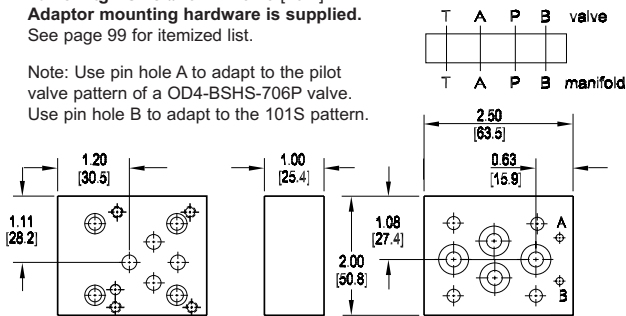
Valve mtg: UNC #10-24 x 0.63 [16] DP
 Adaptor mounting hardware is supplied.
 See page 99 for itemized list.



Adapt D03 valve to Racine 01S manifold

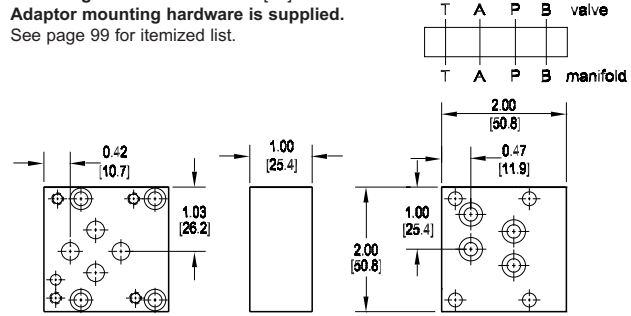
Valve mtg: UNC #10-24 x 0.75 [19.1] DP
 Adaptor mounting hardware is supplied.
 See page 99 for itemized list.

Note: Use pin hole A to adapt to the pilot valve pattern of a OD4-BSHS-706P valve.
 Use pin hole B to adapt to the 101S pattern.



Adapt D03 valve to Parker D1B manifold

Valve mtg: UNC #10-24 x 0.63 [16] DP
 Adaptor mounting hardware is supplied.
 See page 99 for itemized list.



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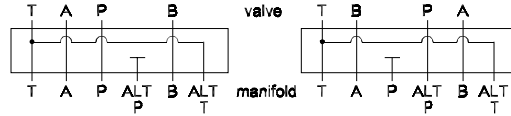
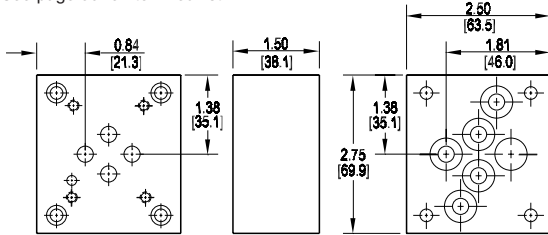
Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation																														
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Manifold Pattern																																		
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Product Type																																		
VA	Valve Adaptor																																	
Port Orientation																																		
AB	A _V common to A _m B _V common to B _m																																	

D03 to “Obsolete Valve” Adaptors

Adapt D03 valve to Denison D1D04 manifold

Valve mtg: UNC #10-24 x 0.50 [12.7] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.

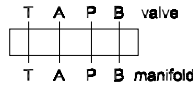
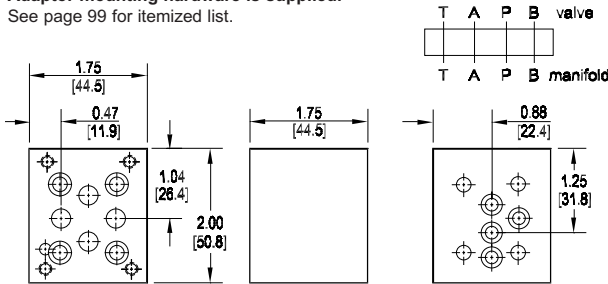


Schematic of typical installation. Replaces D1D04 valves that utilized the standard P port.

Schematic of optional installation. Replaces D1D04 pilot valves that utilized the alternate P port. The adaptor is rotated 180° in this case, which swaps A & B orientation.

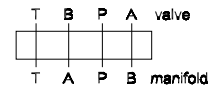
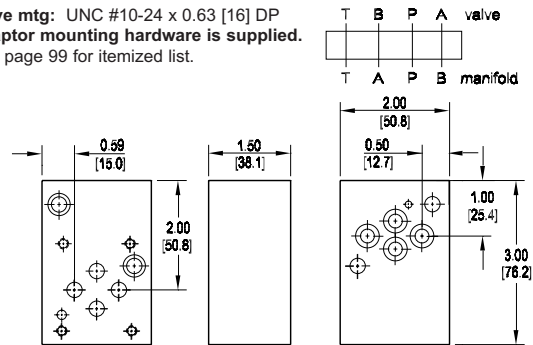
Adapt D03 valve to Vickers D1L manifold

Valve mtg: UNC #10-24 x 0.63 [16] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



Adapt D03 valve to Vickers DG4M4 manifold

Valve mtg: UNC #10-24 x 0.63 [16] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



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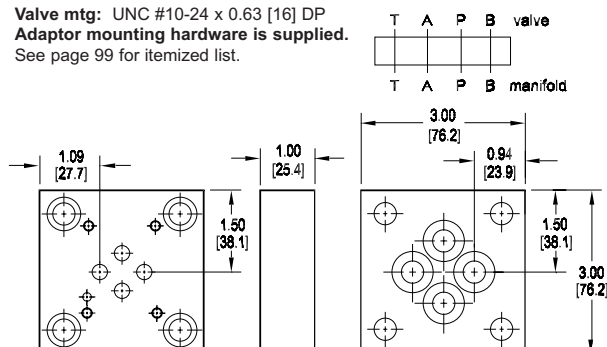
Ordering Information

Material		Valve Pattern		Manifold Pattern		Product Type		Port Orientation																																		
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D03</td><td>ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information</td></tr></table>		Valve Pattern		D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information	<table><tr><th colspan="2">Manifold Pattern</th></tr><tr><td colspan="2">See Tech Information</td></tr><tr><td>D1D04</td><td>Denison D1D04-3*...</td></tr><tr><td>D1L</td><td>Vickers D1L...</td></tr><tr><td>DG4M4</td><td>Vickers DG4M4...</td></tr></table>		Manifold Pattern		See Tech Information		D1D04	Denison D1D04-3*...	D1L	Vickers D1L...	DG4M4	Vickers DG4M4...	<table><tr><th colspan="2">Product Type</th></tr><tr><td>VA</td><td>Valve Adaptor</td></tr></table>		Product Type		VA	Valve Adaptor	<table><tr><th colspan="2">Port Orientation</th></tr><tr><td rowspan="2">AB</td><td>A_v common to A_m B_v common to B_m (D1D04 and D1L)</td></tr><tr><td>B_v common to A_m A_v common to B_m (DG4M4 only)</td></tr><tr><td>BA</td><td>A_v common to A_m B_v common to B_m (DG4M4 only)</td></tr></table>		Port Orientation		AB	A _v common to A _m B _v common to B _m (D1D04 and D1L)	B _v common to A _m A _v common to B _m (DG4M4 only)	BA	A _v common to A _m B _v common to B _m (DG4M4 only)
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DG4M4	Vickers DG4M4...																																									
Product Type																																										
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D03 to “Obsolete Valve” Adaptors

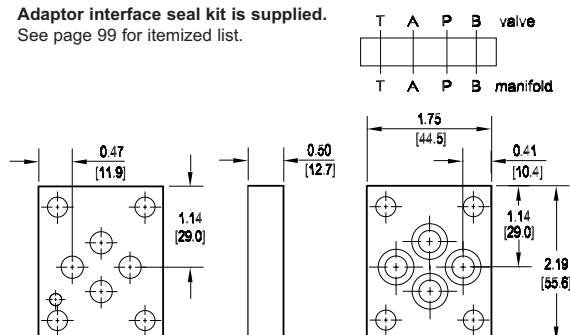
Adapt D03 valve to Republic R8143 manifold

Valve mtg: UNC #10-24 x 0.63 [16] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



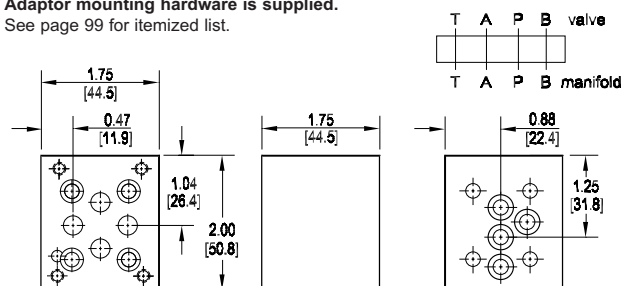
Adapt D03 valve to Rivett RVT65 manifold

Adaptor interface seal kit is supplied.
See page 99 for itemized list.



Adapt D03 valve to Rexroth WE5 manifold

Valve mtg: UNC #10-24 x 0.63 [16] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



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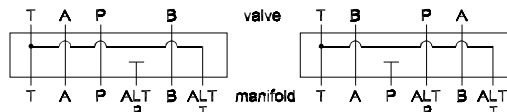
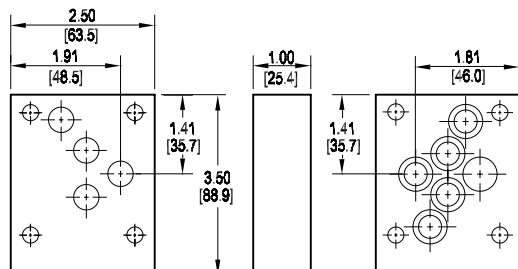
Ordering Information

Material		Valve Pattern		Manifold Pattern		Product Type		Port Orientation																															
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RVT65	Rivett 65**-01-70																																						
WE5	Rexroth WE5...																																						
Product Type																																							
VA	Valve Adaptor																																						
Port Orientation																																							
AB	A _V common to A _m B _V common to B _m																																						

D05 to “Obsolete Valve” Adaptors

Adapt D05 valve to Denison D1D04 manifold

Adaptor interface seal kit is supplied.
See page 99 for itemized list.

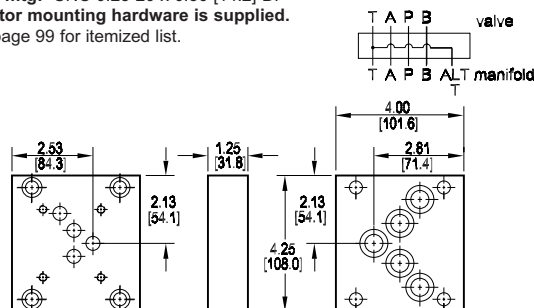


Schematic of typical installation. Replaces D1D04 valves that utilized the standard P port.

Schematic of optional installation. Replaces D1D04 pilot valves that utilized the alternate P port. The adaptor is rotated 180° in this case, which swaps A & B orientation.

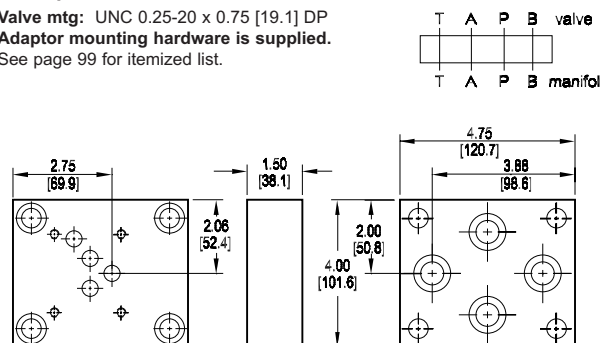
Adapt D05 valve to Vickers DG4S4-02 manifold

Valve mtg: UNC 0.25-20 x 0.56 [14.2] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



Adapt D05 valve to Denison DD063 manifold

Valve mtg: UNC 0.25-20 x 0.75 [19.1] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



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Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern D05 ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	Manifold Pattern See Tech Information D06 Vickers DG4S4-02 NFPA T3.5.1-D06 D1D04 Denison D1D04-3... DD063 Denison DD063...	Product Type VA Valve Adaptor	Port Orientation AB A _V common to A _m B _V common to B _m

D08 to “Obsolete Valve” Adaptors

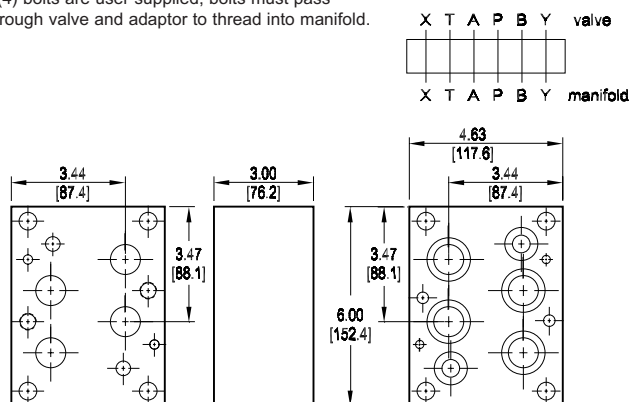
Adapt D08 valve to Denison D1D12 manifold

Valve mtg: (2) UNC 0.50-13 x 0.75 [19.1] DP

Adaptor mounting hardware is supplied.*

See page 99 for itemized list.

* (4) bolts are user supplied; bolts must pass through valve and adaptor to thread into manifold.

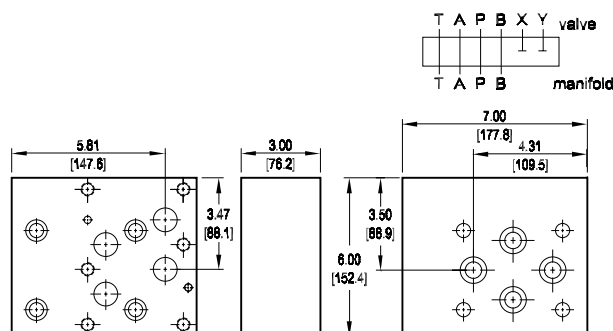


Adapt D08 valve to Denison D2D06 manifold

Valve mtg: UNC 0.50-13 x 1.19 [30.2] DP

Adaptor mounting hardware is supplied.

See page 99 for itemized list.



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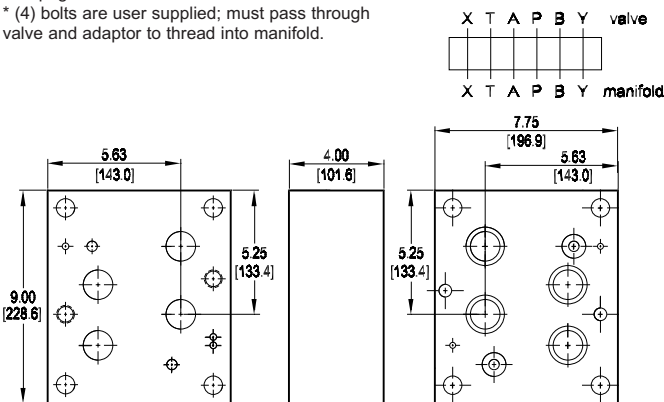
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Valve Pattern																																
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Manifold Pattern																																
See Tech Information																																
D1D12	Denison D1D12-3...																															
D2D06	Denison D2D06...																															
Product Type																																
VA	Valve Adaptor																															
Port Orientation																																
AB	A _V common to A _m B _V common to B _m																															

D10 to “Obsolete Valve” Adaptors

Adapt D10 valve to Denison D1D24 manifold

Valve mtg: (2) UNC 0.75-10 x 1.12 [28.4] DP
Adaptor mounting hardware is supplied.*
See page 99 for itemized list.
* (4) bolts are user supplied; must pass through valve and adaptor to thread into manifold.



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Ordering Information

Material		Valve Pattern		Manifold Pattern		Product Type		Port Orientation																											
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D10</td><td>ISO 4401-10-08 NFFPA T3.5.1-D10 See Tech Information</td></tr></table>		Valve Pattern		D10	ISO 4401-10-08 NFFPA T3.5.1-D10 See Tech Information	<table><tr><th colspan="2">Manifold Pattern</th></tr><tr><td colspan="2">See Tech Information</td></tr><tr><td>D1D24</td><td>Denison D1D24-3...</td></tr></table>		Manifold Pattern		See Tech Information		D1D24	Denison D1D24-3...	<table><tr><th colspan="2">Product Type</th></tr><tr><td>VA</td><td>Valve Adaptor</td></tr></table>		Product Type		VA	Valve Adaptor	<table><tr><th colspan="2">Port Orientation</th></tr><tr><td>AB</td><td>A_v common to A_m B_v common to B_m</td></tr></table>		Port Orientation		AB	A _v common to A _m B _v common to B _m
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A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																		
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D10	ISO 4401-10-08 NFFPA T3.5.1-D10 See Tech Information																																		
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D1D24	Denison D1D24-3...																																		
Product Type																																			
VA	Valve Adaptor																																		
Port Orientation																																			
AB	A _v common to A _m B _v common to B _m																																		

Valve Adaptor Mounting Hardware

Part no.	Cat. pg.	Viton O-rings 75 durometer	Mounting Screws	Locating Pins	Plugs
* D02 D03 VA AB	79	(4) -012	(4) UNC #10-24 x 0.88 long SHCS	(1) 0.12 dia x 0.25 long	n/a
* D05 D03 VA AB A	79	(4) -012	(4) UNC #10-24 x 1.50 long SHCS		
* D05 D03 VA AB B	79	(4) -012	(4) UNC #10-24 x 0.75 long SHCS		
* S04 D03 VA BA	79	(4) -012	(4) UNC #10-24 x 1.00 long SHCS		
* D03 D03 VA BA	80	(4) -012	n/a		
* D02 D03 VA AB M	79	(4) -012	(4) ISO 6H M5-0.8 x 20mm SHCS	(1) 0.12 dia x 0.25 long	n/a
* D05 D03 VA AB A M	79	(4) -012	(4) ISO 6H M5-0.8 x 40mm SHCS		
* D05 D03 VA AB B M	79	(4) -012	(4) ISO 6H M5-0.8 x 20mm SHCS		
* S04 D03 VA BA M	79	(4) -012	(4) ISO 6H M5-0.8 x 25mm SHCS		
* D03 D03 VA BA M	80	(4) -012	n/a		
* D03 D05 VA AB	81	(5) -014	(4) UNC 0.25-20 x 1.25 long SHCS	n/a	n/a
* D03 D05 VA BA	81	(5) -014	(4) UNC 0.25-20 x 0.75 long SHCS		
* S04 D05 VA AB	81	(5) -014	(4) UNC 0.25-20 x 1.50 long SHCS		
* D03 D05 VA AB M	81	(5) -014	(4) ISO 6H M6-1.0 x 35mm SHCS	n/a	n/a
* D03 D05 VA BA M	81	(5) -014	(4) ISO 6H M6-1.0 x 20mm SHCS		
* S04 D05 VA AB M	81	(5) -014	(4) ISO 6H M6-1.0 x 40mm SHCS		
* D03 D05H VA AB	82	(1) -011, (6) -014, (1) -016	(4) UNC 0.25-20 x 1.50 long SHCS	n/a	n/a
* D05HE D05H VA AB	82	(2) -011, (5) -014	n/a		
* D05H D05HE VA AB	82	(7) -014	n/a		
* D03 D05H VA AB M	82	(1) -011, (6) -014, (1) -016	(4) ISO 6H M6-1.0 x 35mm SHCS	n/a	n/a
* D05HE D05H VA AB M	82	(2) -011, (5) -014	n/a		
* D05H D05HE VA AB M	82	(7) -014	n/a		
* I06 D05H RVA	83	(1) -011, (6) -014, (1) -016	(4) UNC 0.25-20 x 1.50 long SHCS	n/a	(1) 0.25 NPTF LSPP
* P06 D05H RVA	83	(1) -011, (6) -014, (1) -016	(4) UNC 0.25-20 x 1.50 long SHCS		
* I06 D05H RVA M	83	(1) -011, (6) -014, (1) -016	(4) ISO 6H M6-1.0 x 40mm SHCS	n/a	n/a
* P06 D05H RVA M	83	(1) -011, (6) -014, (1) -016	(4) ISO 6H M6-1.0 x 40mm SHCS		
* D03 D06 VA AB	84	(5) -018	(4) UNC 0.38-16 x 1.25 long SHCS	n/a	n/a
* D05 D06 VA AB	84	(5) -018	(4) UNC 0.38-16 x 1.25 long SHCS		
* D05H D06H VA AB	84	(7) -018	(4) UNC 0.38-16 x 2.00 long SHCS		
* D03 D07 VA AB	85	(2) -011, (4) -210	(2) UNC 0.25-20 x 1.25 long and (4) UNC 0.38-16 x 1.25 long SHCS	(2) 0.12 dia x 0.25 long	n/a
* D05 D07 VA AB	85	(2) -011, (4) -210	(4) UNC 0.38-16 x 1.25 long SHCS		
* D05H D07 VA AB	85	(2) -011, (4) -210	(4) UNC 0.38-16 x 1.25 long SHCS		
* D05HE D07 VA AB	85	(3) -011, (1) -014, (4) -210	(2) UNC 0.25-20 x 1.50 long and (4) UNC 0.38-16 x 1.50 long SHCS		
* D08 D07 VA AB	86	(2) -011, (4) -210	(2) UNC 0.25-20 x 3.00 long and (4) UNC 0.38-16 x 3.00 long SHCS		
* D03 D07 VA AB M	85	(2) -011, (4) -210	(2) ISO 6H M6-1.0 x 35mm and (4) ISO 6H M10-1.5 x 35mm SHCS	(2) 0.12 dia x 0.25 long	n/a
* D05 D07 VA AB M	85	(2) -011, (4) -210	(4) ISO 6H M10-1.5 x 35mm SHCS		
* D05H D07 VA AB M	85	(2) -011, (4) -210	(4) ISO 6H M10-1.5 x 35mm SHCS		
* D05HE D07 VA AB M	85	(3) -011, (1) -014, (4) -210	(2) ISO 6H M6-1.0 x 40mm and (4) ISO 6H M10-1.5 x 40mm SHCS		
* D08 D07 VA AB M	86	(2) -011, (4) -210	(2) ISO 6H M6-1.0 x 75mm and (4) ISO 6H M10-1.5 x 75mm SHCS		

Valve Adaptor Mounting Hardware

Part no.	Cat. pg.	Viton O-rings 75 durometer	Mounting Screws	Locating Pins	Plugs
* D03 D08 VA AB	87	(2) -210, (4) -215	(6) UNC 0.50-13 x 1.50 long SHCS	(2) 0.25 dia x 0.50 long	n/a
* D05 D08 VA AB	87	(2) -210, (4) -215	(6) UNC 0.50-13 x 1.50 long SHCS		
* D05H D08 VA AB	87	(2) -210, (4) -215	(4) UNC 0.50-13 x 2.00 long SHCS		
* D05HE D08 VA AB	87	(2) -210, (4) -215	(6) UNC 0.50-13 x 1.50 long SHCS		
* D06 D08 VA AB	88	(2) -210, (4) -215	(4) UNC 0.50-13 x 2.00 long SHCS		
* D07 D08 VA AB	88	(2) -210, (4) -215	(4) UNC 0.50-13 x 1.50 long SHCS		
* D03 D08 VA AB M	87	(2) -210, (4) -215	(6) ISO 6H M12-1.75 x 40mm SHCS	(2) 0.25 dia x 0.50 long	n/a
* D05 D08 VA AB M	87	(2) -210, (4) -215	(6) ISO 6H M12-1.75 x 40mm SHCS		
* D05H D08 VA AB M	87	(2) -210, (4) -215	(4) ISO 6H M12-1.75 x 50mm SHCS		
* D05HE D08 VA AB M	87	(2) -210, (4) -215	(6) ISO 6H M12-1.75 x 40mm SHCS		
* D06 D08 VA AB M	88	(2) -210, (4) -215	(4) ISO 6H M12-1.75 x 50mm SHCS		
* D07 D08 VA AB M	88	(2) -210, (4) -215	(4) ISO 6H M12-1.75 x 40mm SHCS		
* I08 D08 RVA	89	(2) -210, (4) -215	(6) UNC 0.50-13 x 2.00 long SHCS	(2) 0.25 dia x 0.50 long	(1) 0.25 NPTF LSPP
* P08 D08 RVA	89	(2) -210, (4) -215	(6) UNC 0.50-13 x 2.00 long SHCS	(2) 0.25 dia x 0.50 long	n/a
* R08 D08 RVA	89	(2) -210, (4) -215	(6) UNC 0.50-13 x 2.00 long SHCS	(2) 0.25 dia x 0.50 long	(1) 0.25 NPTF LSPP
* I08 D08 RVA M	89	(2) -210, (4) -215	(6) ISO 6H M12-1.75 x 50mm SHCS	(2) 0.25 dia x 0.50 long	n/a
* P08 D08 RVA M	89	(2) -210, (4) -215	(6) ISO 6H M12-1.75 x 50mm SHCS	(2) 0.25 dia x 0.50 long	
* R08 D08 RVA M	89	(2) -210, (4) -215	(6) ISO 6H M12-1.75 x 50mm SHCS	(2) 0.25 dia x 0.50 long	
* D07 D10 VA AB	90	(2) -210, (4) -222	(6) UNC 0.75-10 x 3.00 SHCS	(2) 0.25 dia x 0.50 long	n/a
* D08 D10 VA AB	90	(2) -210, (4) -222	(6) UNC 0.75-10 x 3.00 SHCS	(2) 0.25 dia x 0.50 long	
* D07 D10 VA AB M	90	(2) -210, (4) -222	(6) ISO 6H M20-2.5 x 80mm SHCS	(2) 0.25 dia x 0.50 long	n/a
* D08 D10 VA AB M	90	(2) -210, (4) -222	(6) ISO 6H M20-2.5 x 80mm SHCS	(2) 0.25 dia x 0.50 long	
* D03 S04 VA BA	91	(4) -013	(4) UNC 0.31-18 x 1.00 long SHCS	(2) 0.09 dia x 0.25 long	n/a
* D05 S04 VA AB	91	(4) -013	(4) UNC 0.31-18 x 1.50 long SHCS	(2) 0.09 dia x 0.25 long	
* D03 S04 VA BA M	91	(4) -013	(4) ISO 6H M8-1.25 x 25mm SHCS	(2) 0.09 dia x 0.25 long	n/a
* D05 S04 VA AB M	91	(4) -013	(4) ISO 6H M8-1.25 x 40mm SHCS	(2) 0.09 dia x 0.25 long	
* D03 01Q VA AB	92	(4) -012	(4) UNC #10-24 x 1.00 long SHCS	(1) 0.12 dia x 0.25 long	n/a
* D03 01S VA AB	92	(4) -012	(4) UNC 0.25-20 x 1.25 long SHCS	(1) 0.12 dia x 0.25 long	
* D03 D1B VA AB	92	(4) -010	(4) UNF #10-32 x 1.00 long SHCS	n/a	
* D03 D1D04 VA AB	93	(6) -013	(4) UNC 0.25-20 x 1.50 long SHCS	n/a	n/a
* D03 D1L VA AB	93	(4) -008	(4) UNC #10-24 x 1.75 long SHCS	n/a	
* D03 DG4M4 VA BA	93	(4) -011	(2) UNC 0.25-20 x 1.50 long SHCS	(1) 0.12 dia x 0.25 long	
* D03 R8143 VA AB	94	(4) -016	(4) UNC 0.38-16 x 1.00 long SHCS	n/a	n/a
* D03 RVT65 VA AB	94	(4) -012	n/a	n/a	
* D03 WE5 VA AB	94	(4) -010	(4) UNC #10-24 x 1.75 long SHCS	n/a	
* D05 D06 VA AB	95	(5) -018	(4) UNC 0.38-16 x 1.25 long SHCS	n/a	n/a
* D05 D1D04 VA AB	95	(6) -013	n/a	n/a	
* D05 DD063 VA AB	95	(4) -210	(4) UNC 0.50-13 x 1.50 long SHCS	n/a	
* D08 D1D12 VA AB	96	(2) -210, (4) -215	(2) UNC 0.31-18 x 1.00 long SHCS	(2) 0.25 dia x 0.50 long	n/a
* D08 D2D06 VA AB	96	(4) -210	(4) UNC 0.50-13 x 3.00 long SHCS	n/a	
* D10 D1D24 VA AB	97	(2) -210, (4) -222	(2) UNC 0.50-13 x 1.50 long SHCS	(2) 0.25 dia x 0.50 long	



Hydraulic Valve Manifolds Better System Design Begins with a Manifold.

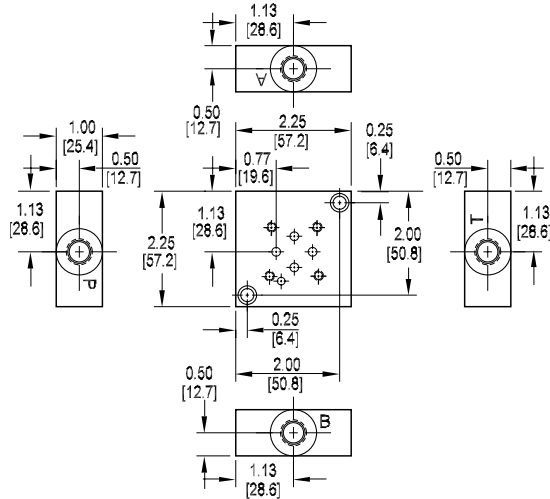
SUBPLATES

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D02 Subplates

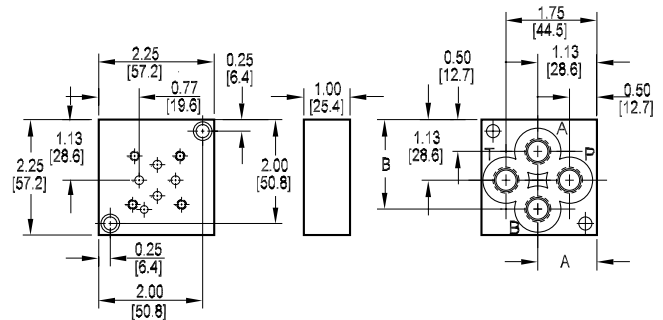
Side Ported Subplate

Valve mtg: UNC #10-24 x 0.56 DP or
Metric M5-0.8mm ISO 6H x [14] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Back Ported Subplate

Valve mtg: UNC #10-24 x 0.56 DP or
Metric M5-0.8mm ISO 6H x [14] DP
Subplate mounting hardware is supplied.
See page 121 for itemized list.



Dimension	A	B
*D02SPB4P	1.22 [31.0]	1.88 [47.6]
*D02SPB4T		
*D02SPB4S	1.13 [28.6]	1.75 [44.5]
*D02SPB4B		
*D02SPB4M		

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	

Product Type	
SP	Subplate

Port Location	
S	Side ported
B	Back Ported

Port Threads	
4P	0.25-18 NPTF ANSI B1.20.3
4S	-4 SAE ISO 11926; SAE 1926
4B	0.25-19 BSPP ISO 1179; BS 2779
4M	M10 x 1.0 ISO 6149
4T	0.25-19 BSPT ISO 7; BS 21

Valve Pattern	
D02	ISO 4401-02-01 NFFPA T3.5.1-D02 See Tech Information

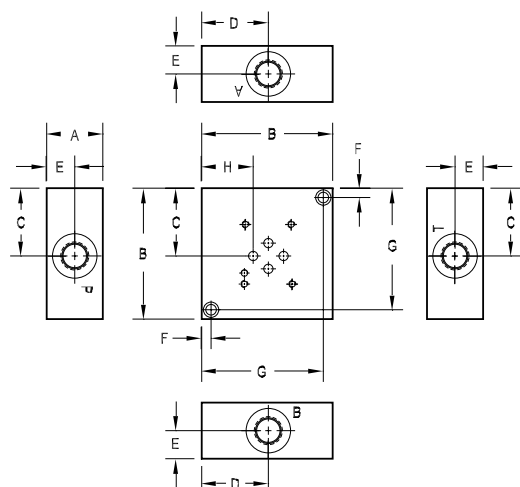
D03 Subplates

Side Ported Subplate

Valve mtg: UNC #10-24 x 0.63 DP or
Metric M5-0.8mm ISO 6H x [16] DP

Subplate hardware kit is supplied.

See page 121 for itemized list.



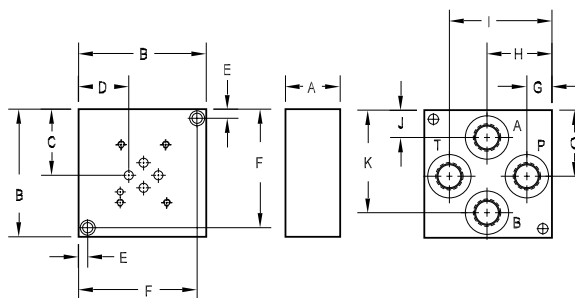
A	B	C	D	E	F	G	H
1.00 [25.4]	2.50 [63.5]	1.31 [33.3]	1.25 [31.8]	0.50 [12.7]	0.25 [6.4]	2.25 [57.2]	0.88 [22.4]
1.50 [38.1]	3.50 [88.9]	1.81 [46.0]	1.78 [45.2]	0.75 [19.1]	0.25 [6.4]	3.25 [82.6]	1.38 [34.9]
1.75 [44.5]	4.00 [101.6]	2.06 [52.4]	2.03 [51.6]	0.88 [22.2]	0.38 [9.5]	3.63 [92.1]	1.63 [41.3]

Back Ported Subplate

Valve mtg: UNC #10-24 x 0.63 DP or
Metric M5-0.8mm ISO 6H x [16] DP

Subplate hardware kit is supplied.

See page 121 for itemized list.



Dimension	A	B	C	D	E	F	G	H	I	J	K
*D03SPB4P	1.00 [25.4]	2.50 [63.5]	1.31 [33.3]	0.88 [22.4]	0.25 [6.4]	2.25 [57.2]	0.66 [16.7]	1.28 [32.5]	1.91 [48.4]	0.75 [19.1]	1.88 [47.6]
*D03SPB6B	1.00 [25.4]	2.50 [63.5]	1.25 [31.8]	0.84 [21.4]	0.25 [6.4]	2.25 [57.2]	0.51 [13.0]	1.25 [31.8]	1.98 [50.4]	0.52 [13.2]	1.97 [50.0]
*D03SPB6[M,P,S,T]	1.00 [25.4]	2.50 [63.5]	1.31 [33.3]	0.88 [22.4]	0.25 [6.4]	2.25 [57.2]	0.59 [15.1]	1.28 [32.5]	1.97 [50.0]	0.69 [17.5]	1.94 [49.2]
D03SPB8	1.50 [38.1]	3.50 [88.9]	1.81 [46.0]	1.38 [34.9]	0.25 [6.4]	3.25 [82.6]	0.69 [17.5]	1.78 [45.2]	2.81 [71.4]	0.75 [19.1]	2.81 [71.4]
D03SPB12	1.50 [38.1]	4.50 [114.3]	2.31 [58.8]	1.88 [47.6]	0.38 [9.5]	4.13 [104.8]	0.94 [23.8]	2.28 [57.9]	3.56 [90.5]	0.94 [23.8]	3.56 [90.5]

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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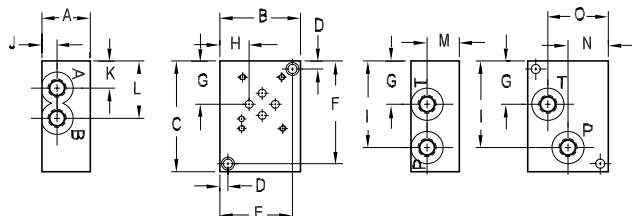
Ordering Information

Material		Valve Pattern		Product Type		Port Location		Port Threads																																																																									
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D03</td><td>ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information</td></tr></table>		Valve Pattern		D03	ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>SP</td><td>Subplate</td></tr></table>		Product Type		SP	Subplate	<table><tr><th colspan="2">Port Location</th></tr><tr><td>S</td><td>Side ported</td></tr><tr><td>B</td><td>Back Ported</td></tr></table>		Port Location		S	Side ported	B	Back Ported	<table><tr><th colspan="4">Port Threads</th></tr><tr><td>4P</td><td>0.25-18 NPTF ANSI B1.20.3</td><td></td><td></td></tr><tr><td>6P</td><td>0.38-18 NPTF ANSI B1.20.3</td><td>8P</td><td>0.50-14 NPTF ANSI B1.20.3</td></tr><tr><td>6S</td><td>-6 SAE ISO 11926; SAE 1926</td><td>8S</td><td>-8 SAE ISO 11926; SAE 1926</td></tr><tr><td>6B</td><td>0.38-19 BSPP ISO 1179; BS 2779</td><td>8B</td><td>0.50-14 BSPP ISO 1179; BS 2779</td></tr><tr><td>6M</td><td>M14 x 1.5 ISO 6149</td><td>8M</td><td>M18 x 1.5 ISO 6149</td></tr><tr><td>6T</td><td>0.38-19 BSPT ISO 7; BS 21</td><td>8T</td><td>0.50-14 BSPT ISO 7; BS 21</td></tr><tr><td></td><td></td><td>12P</td><td>0.75-14 NPTF ANSI B1.20.3</td></tr><tr><td></td><td></td><td>12S</td><td>-12 SAE ISO 11926; SAE 1926</td></tr><tr><td></td><td></td><td>12B</td><td>0.75-14 BSPP ISO 1179; BS 2779</td></tr><tr><td></td><td></td><td>12M</td><td>M27 x 2.0 ISO 6149</td></tr><tr><td></td><td></td><td>12T</td><td>0.75-14 BSPT ISO 7; BS 21</td></tr></table>				Port Threads				4P	0.25-18 NPTF ANSI B1.20.3			6P	0.38-18 NPTF ANSI B1.20.3	8P	0.50-14 NPTF ANSI B1.20.3	6S	-6 SAE ISO 11926; SAE 1926	8S	-8 SAE ISO 11926; SAE 1926	6B	0.38-19 BSPP ISO 1179; BS 2779	8B	0.50-14 BSPP ISO 1179; BS 2779	6M	M14 x 1.5 ISO 6149	8M	M18 x 1.5 ISO 6149	6T	0.38-19 BSPT ISO 7; BS 21	8T	0.50-14 BSPT ISO 7; BS 21			12P	0.75-14 NPTF ANSI B1.20.3			12S	-12 SAE ISO 11926; SAE 1926			12B	0.75-14 BSPP ISO 1179; BS 2779			12M	M27 x 2.0 ISO 6149			12T	0.75-14 BSPT ISO 7; BS 21
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Port Threads																																																																																	
4P	0.25-18 NPTF ANSI B1.20.3																																																																																
6P	0.38-18 NPTF ANSI B1.20.3	8P	0.50-14 NPTF ANSI B1.20.3																																																																														
6S	-6 SAE ISO 11926; SAE 1926	8S	-8 SAE ISO 11926; SAE 1926																																																																														
6B	0.38-19 BSPP ISO 1179; BS 2779	8B	0.50-14 BSPP ISO 1179; BS 2779																																																																														
6M	M14 x 1.5 ISO 6149	8M	M18 x 1.5 ISO 6149																																																																														
6T	0.38-19 BSPT ISO 7; BS 21	8T	0.50-14 BSPT ISO 7; BS 21																																																																														
		12P	0.75-14 NPTF ANSI B1.20.3																																																																														
		12S	-12 SAE ISO 11926; SAE 1926																																																																														
		12B	0.75-14 BSPP ISO 1179; BS 2779																																																																														
		12M	M27 x 2.0 ISO 6149																																																																														
		12T	0.75-14 BSPT ISO 7; BS 21																																																																														

D03 Subplates

Dual Ported Subplate

Valve mtg: UNC #10-24 x 0.50 DP or
Metric M5-0.8mm ISO 6H x [12.7] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.

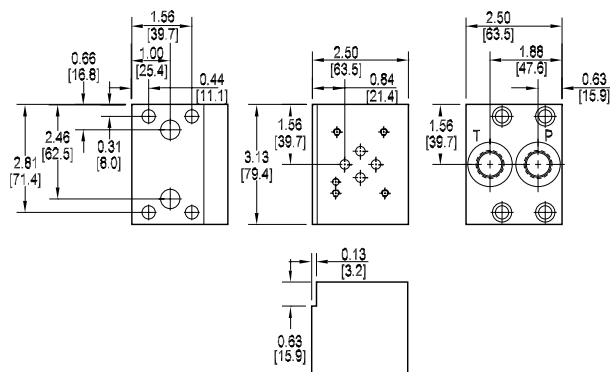


Dimension	A	B	C	D	E	F	G	H
D03SPSB6	1.50 [38.1]	2.50 [63.5]	3.44 [87.4]	0.25 [6.4]	2.25 [57.2]	3.19 [81.0]	1.34 [34.0]	0.91 [23.1]
D03SPSB8	2.00 [50.8]	2.75 [69.9]	3.75 [95.3]	0.25 [6.4]	2.50 [63.5]	3.50 [88.9]	1.34 [34.0]	0.91 [23.1]

Dimension	I	J	K	L	M	N	O
*D03SPSB6B	2.69 [68.3]	0.50 [12.7]	0.72 [18.3]	1.78 [45.2]	1.00 [25.4]	1.25 [31.8]	1.88 [47.8]
*D03SPSB6[M,P,S,T]	2.69 [68.3]	0.47 [11.9]	0.84 [21.4]	1.78 [45.2]	1.00 [25.4]	1.25 [31.8]	1.88 [47.8]
*D03SPSB8B	3.00 [76.2]	0.88 [22.2]	0.69 [17.5]	1.97 [50.0]	1.38 [34.9]	1.44 [36.5]	1.94 [49.2]
*D03SPSB8[M,P,S,T]	3.00 [76.2]	0.88 [22.2]	0.69 [17.5]	1.94 [49.2]	1.38 [34.9]	1.44 [36.5]	1.94 [49.2]

Motor Mounted Subplate

Available with NPTF or SAE ports only.
Valve mtg: UNC #10-24 x 0.63 DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	

Product Type	
SP	Subplate

Port Location	
SB	Side P,A,B,T ports Back P & T ports
M	Motor mounting 8P or 8S ports only

Valve Pattern	
D03	ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information

Port Threads			
Port location SB only		Port location SB or M	
6P	0.38-18 NPTF ANSI B1.20.3	8P	0.50-14 NPTF ANSI B1.20.3
6S	-6 SAE ISO 11926; SAE 1926	8S	-8 SAE ISO 11926; SAE 1926
6B	0.38-19 BSPP ISO 1179; BS 2779	Port location SB only	
6M	M14 x 1.5 ISO 6149	8B	0.50-14 BSPP ISO 1179; BS 2779
6T	0.38-19 BSPT ISO 7; BS 21	8M	M18 x 1.5 ISO 6149
		8T	0.50-14 BSPT ISO 7; BS 21

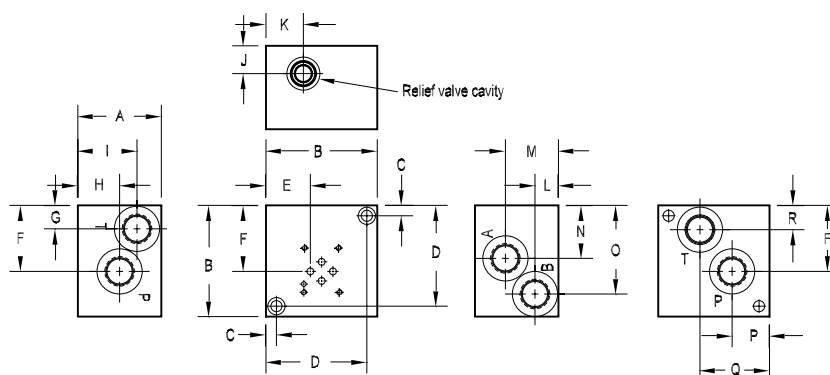
D03 Subplates with Relief Cavity

Dual Ported Subplate with Main Relief Cavity

Valve mtg: UNC #10-24 x 0.63 DP or
Metric M5-0.8mm ISO 6H x [16] DP

Subplate hardware kit is supplied.

See page 121 for itemized list.



Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
*D03SPRV*6*	2.25 [57.2]	3.00 [76.2]	0.31 [7.9]	2.69 [68.3]	0.97 [24.6]	2.00 [50.8]	0.69 [17.5]	1.66 [42.1]	1.66 [42.1]	0.88 [22.2]	0.84 [21.3]	0.88 [22.2]	1.63 [41.3]	1.53 [38.9]	2.37 [60.2]	0.97 [24.6]	1.69 [42.9]	0.69 [17.5]
*D03SPRV*8*	3.00 [76.2]	3.50 [88.9]	0.38 [9.5]	3.12 [79.4]	1.34 [34.1]	2.19 [55.6]	0.81 [20.6]	1.50 [38.1]	2.00 [50.8]	1.00 [25.4]	1.09 [22.8]	0.84 [21.4]	1.91 [48.4]	1.72 [43.6]	2.53 [64.3]	1.09 [22.8]	2.25 [57.2]	0.81 [20.6]
*D03SPRV*12*	3.00 [76.2]	4.00 [101.6]	0.38 [9.5]	3.63 [92.1]	1.59 [40.5]	2.38 [60.3]	0.84 [21.4]	1.50 [38.1]	2.13 [54.0]	1.00 [25.4]	1.34 [34.1]	0.84 [21.4]	1.91 [48.4]	1.91 [48.4]	3.19 [81.0]	1.34 [34.1]	2.50 [63.5]	0.88 [22.2]

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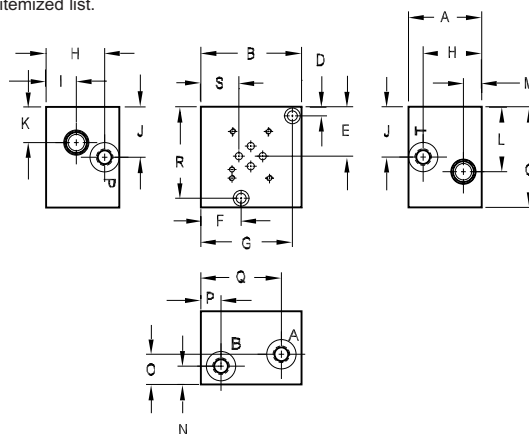
Ordering Information

Material		Valve Pattern		Product Type		Circuit		Relief Cavity		Port Threads						
Material				Product Type				Relief Cavity								
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa			SP	Subplate			C	Common cavity C-10-2 (P in nose)							
D	Ductile Iron - D4512 5000† psi • 34.5 MPa							S	Sun Cavity T-10A (P in nose) See Tech Info for valves							
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.																
		Valve Pattern				Circuit										
		D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information			RV		Main Relief P to T								

D03 Subplates with Relief Cavity

Side Ported Subplate with Cylinder Port Crossover Relief Cavities

Valve mtg: UNC #10-24 x 0.63 DP or
Metric M5-0.8mm ISO 6H x [16] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
*D03SPCR*6*	2.50 [63.5]	3.50 [88.9]	3.50 [88.9]	0.31 [7.9]	1.69 [42.9]	1.41 [35.7]	3.19 [81.0]	2.00 [50.8]	1.03 [26.2]	1.72 [43.7]	1.22 [31.0]	2.22 [56.4]	0.63 [16.0]	0.63 [16.0]	1.03 [26.2]	0.69 [17.5]	2.81 [71.4]	3.19 [81.0]	1.33 [33.7]
*D03SPCR*12*	4.00 [101.6]	5.00 [127.0]	4.50 [114.3]	0.38 [9.5]	2.00 [50.8]	2.50 [63.5]	2.50 [63.5]	3.00 [76.2]	1.25 [31.8]	2.00 [50.8]	1.50 [38.1]	2.50 [63.5]	1.00 [25.4]	1.25 [31.8]	1.38 [35.1]	1.00 [25.4]	4.00 [101.6]	4.13 [104.8]	2.06 [52.8]

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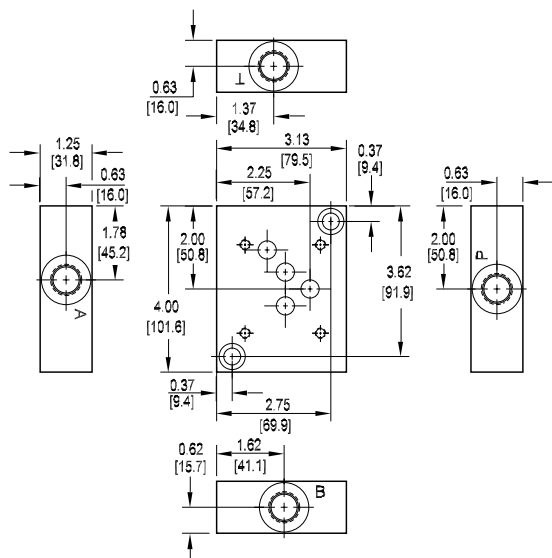
Ordering Information

Material	Valve Pattern	Product Type	Circuit	Relief Cavity	Port Threads
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern D03 ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information	Product Type SP Subplate	Circuit CR Crossover Reliefs A to B and B to A	Relief Cavity C Common cavity C-10-2 (P in nose) S Sun Cavity T-10A (P in nose) See Tech Info for valves	Port Threads 6P 0.38-18 NPTF ANSI B1.20.3 6S -6 SAE ISO 11926; SAE 1926 6B 0.38-19 BSPP ISO 1179; BS 2779 6M M14 x 1.5 ISO 6149 6T 0.38-19 BSPT ISO 7; BS 21 12P 0.75-14 NPTF ANSI B1.20.3 12S -12 SAE ISO 11926; SAE 1926 12B 0.75-14 BSPP ISO 1179; BS 2779 12M M27 x 2.0 ISO 6149 12T 0.75-14 BSPT ISO 7; BS 21

D05 Subplates

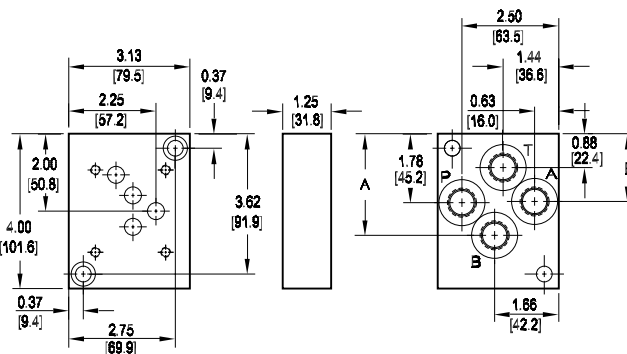
Side Ported Subplate

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Back Ported Subplate

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Dimension	A	B
*D05SPB6P	2.63 [66.8]	1.75 [44.5]
*D05SPB8B	2.94 [74.6]	2.00 [50.8]
*D05SPB8[M,P,S,T]	2.63 [66.8]	1.75 [44.5]

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Ordering Information

Material		Valve Pattern		Product Type		Port Location		Port Threads																																					
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D05</td><td>ISO 4401-05-04 NFA T3.5.1-D05 See Tech Information</td></tr></table>		Valve Pattern		D05	ISO 4401-05-04 NFA T3.5.1-D05 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>SP</td><td>Subplate</td></tr></table>		Product Type		SP	Subplate	<table><tr><th colspan="2">Port Location</th></tr><tr><td>S</td><td>Side ported</td></tr><tr><td>B</td><td>Back Ported</td></tr></table>		Port Location		S	Side ported	B	Back Ported	<table><tr><th colspan="2">Port Threads</th></tr><tr><td>6P</td><td>0.38-18 NPTF ANSI B1.20.3</td></tr><tr><td>8P</td><td>0.50-14 NPTF ANSI B1.20.3</td></tr><tr><td>8S</td><td>-8 SAE ISO 11926; SAE 1926</td></tr><tr><td>8B</td><td>0.50-14 BSPP ISO 1179; BS 2779</td></tr><tr><td>8M</td><td>M18 x 1.5 ISO 6149</td></tr><tr><td>8T</td><td>0.50-14 BSPT ISO 7; BS 21</td></tr></table>		Port Threads		6P	0.38-18 NPTF ANSI B1.20.3	8P	0.50-14 NPTF ANSI B1.20.3	8S	-8 SAE ISO 11926; SAE 1926	8B	0.50-14 BSPP ISO 1179; BS 2779	8M	M18 x 1.5 ISO 6149	8T	0.50-14 BSPT ISO 7; BS 21
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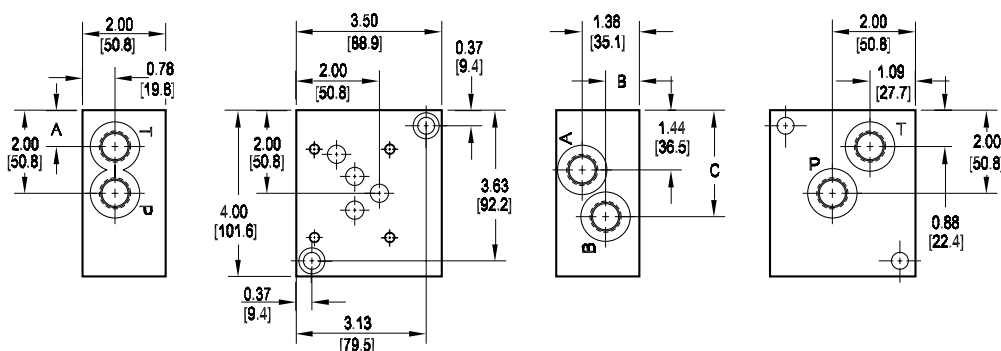
D05 Subplates

Dual Ported Subplate

Valve mtg: UNC 0.25-20 x 0.56 DP or
Metric M6-1.0mm ISO 6H x [14.2] DP

Subplate hardware kit is supplied.

See page 121 for itemized list.



Dimension	A	B	C
*D05SPSB8B	0.66 [16.7]	0.78 [19.8]	2.81 [71.4]
*D05SPSB8[M,P,S,T]	0.88 [22.2]	1.38 [35.1]	2.56 [65.1]

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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads																																
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D05</td><td>ISO 4401-05-04 NFFPA T3.5.1-D05 See Tech Information</td></tr></table>	Valve Pattern		D05	ISO 4401-05-04 NFFPA T3.5.1-D05 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>SP</td><td>Subplate</td></tr></table>	Product Type		SP	Subplate	<table><tr><th colspan="2">Port Location</th></tr><tr><td>SB</td><td>Side P,A,B,T ports Back P & T ports</td></tr></table>	Port Location		SB	Side P,A,B,T ports Back P & T ports	<table><tr><th colspan="2">Port Threads</th></tr><tr><td>8P</td><td>0.50-14 NPTF ANSI B1.20.3</td></tr><tr><td>8S</td><td>-8 SAE ISO 11926; SAE 1926</td></tr><tr><td>8B</td><td>0.50-14 BSPP ISO 1179; BS 2779</td></tr><tr><td>8M</td><td>M18 x 1.5 ISO 6149</td></tr><tr><td>8T</td><td>0.50-14 BSPT ISO 7; BS 21</td></tr></table>	Port Threads		8P	0.50-14 NPTF ANSI B1.20.3	8S	-8 SAE ISO 11926; SAE 1926	8B	0.50-14 BSPP ISO 1179; BS 2779	8M	M18 x 1.5 ISO 6149	8T	0.50-14 BSPT ISO 7; BS 21
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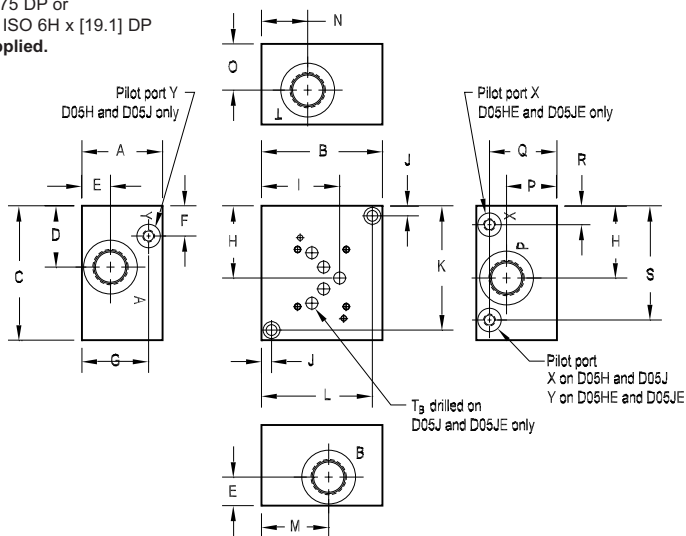
D05 High Flow Subplates with Pilot Ports

Side Ported Subplate

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP

Subplate hardware kit is supplied.

See page 121 for itemized list.



Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
D05HSPS12	1.75 [44.5]	3.75 [95.3]	4.75 [120.7]	2.13 [54.1]	0.88 [22.4]	0.81 [20.6]	0.88 [22.4]	2.37 [60.2]	2.53 [64.3]	0.38 [9.5]	4.37 [111.0]	3.38 [85.9]	1.88 [47.8]	1.88 [47.8]	0.88 [22.4]	0.88 [22.4]	0.88 [22.4]	—	3.94 [100.1]
D05HESPS12	1.75 [44.5]	3.75 [95.3]	4.75 [120.7]	2.13 [54.1]	0.88 [22.4]	—	—	2.37 [60.2]	2.53 [64.3]	0.38 [9.5]	4.37 [111.0]	3.38 [85.9]	1.88 [47.8]	1.88 [47.8]	0.88 [22.4]	0.88 [22.4]	0.44 [11.2]	1.00 [25.4]	3.94 [100.1]
D05JSPS16	3.00 [76.2]	4.50 [114.3]	5.00 [127.0]	2.28 [57.9]	1.06 [27.0]	1.25 [31.8]	2.50 [63.5]	2.69 [68.3]	2.91 [73.8]	0.38 [9.5]	4.63 [117.5]	4.13 [104.8]	2.50 [63.5]	1.72 [43.7]	1.72 [43.7]	1.88 [47.6]	2.50 [63.5]	—	4.19 [106.4]
D05JESPS16	3.00 [76.2]	4.50 [114.3]	5.00 [127.0]	2.28 [57.9]	1.06 [27.0]	—	—	2.69 [68.3]	2.91 [73.8]	0.38 [9.5]	4.63 [117.5]	4.13 [104.8]	2.50 [63.5]	1.72 [43.7]	1.72 [43.7]	1.88 [47.6]	2.25 [57.2]	1.13 [28.6]	4.25 [108.0]

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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern	
See Tech Information	
D05H	(USA std.) NFPA T3.5.1-D05 Alt B High flow
D05HE	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A High flow
D05J	(USA std.) NFPA T3.5.1-D05 Alt B Extra high flow
D05JE	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A Extra high flow

Port Location	
S	Side ported

P, T, A, B Port Threads			X & Y port size (reference)
D05H or D05HE only	D05J or D05JE only		
12P	0.75-14 NPTF ANSI B1.20.3	16P	1.00-11.5 NPTF ANSI B1.20.3
12S	-12 SAE ISO 11926; SAE 1926	16S	-16 SAE ISO 11926; SAE 1926
12B	0.75-14 BSPP ISO 1179; BS 2779	16B	1.00-11 BSPP ISO 1179; BS 2779
12M	M27 x 2.0 ISO 6149	16M	M33 x 2.0 ISO 6149
12T	0.75-14 BSPT ISO 7; BS 21	16T	1.00-11 BSPT ISO 7; BS 21

Product Type	
SP	Subplate

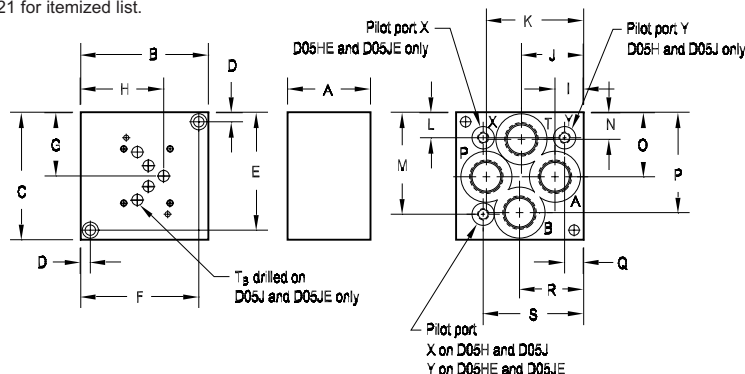
D05 High Flow Subplates with Pilot Ports

Back Ported Subplate

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP

Subplate hardware kit is supplied.

See page 121 for itemized list.



Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
D05HSPB12	1.75 [44.5]	4.50 [114.3]	4.75 [120.7]	0.38 [9.5]	4.38 [111.3]	4.13 [104.9]	2.37 [60.2]	2.91 [73.9]	1.13 [28.6]	2.19 [55.6]	3.31 [84.1]	0.88 [22.2]	3.88 [98.4]	1.13 [28.7]	2.38 [60.5]	3.56 [90.4]	0.59 [15.1]	2.25 [57.2]	3.56 [90.5]
D05HESPB12	1.75 [44.5]	4.50 [114.3]	4.75 [120.7]	0.38 [9.5]	4.38 [111.3]	4.13 [104.9]	2.37 [60.2]	2.91 [73.9]	1.13 [28.6]	2.25 [57.2]	3.31 [84.1]	0.81 [20.6]	3.94 [100.1]	1.13 [28.7]	2.38 [60.5]	3.56 [90.4]	--	2.25 [57.2]	3.50 [88.9]
*D05JSPB16B	3.25 [82.6]	5.00 [127.0]	5.00 [127.0]	0.38 [9.5]	4.63 [117.5]	4.63 [117.5]	2.50 [63.5]	3.25 [82.6]	1.00 [25.4]	2.44 [61.9]	3.84 [97.6]	0.88 [22.2]	4.13 [104.8]	1.00 [25.4]	2.53 [64.3]	4.00 [101.6]	0.75 [19.1]	2.44 [61.9]	4.25 [108.0]
*D05JSPB16[M,P,S,T]	3.25 [82.6]	5.00 [127.0]	5.00 [127.0]	0.38 [9.5]	4.63 [117.5]	4.63 [117.5]	2.50 [63.5]	3.25 [82.6]	1.13 [28.6]	2.44 [61.9]	3.81 [96.8]	1.06 [27.0]	4.00 [101.6]	1.06 [27.0]	2.53 [64.3]	3.94 [100.1]	0.75 [19.1]	2.44 [61.9]	3.94 [100.1]
D05JESPB16	3.25 [82.6]	5.00 [127.0]	5.00 [127.0]	0.38 [9.5]	4.63 [117.5]	4.63 [117.5]	2.50 [63.5]	3.25 [82.6]	1.00 [25.4]	2.44 [61.9]	3.84 [97.6]	1.06 [27.0]	4.00 [101.6]	1.06 [27.0]	2.53 [64.3]	4.00 [101.6]	--	2.44 [61.9]	3.94 [100.1]

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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern	
See Tech Information	
D05H	(USA std.) NFFPA T3.5.1-D05 Alt B High flow
D05HE	ISO 4401-05-05 NFFPA T3.5.1-D05 Alt A High flow
D05J	(USA std.) NFFPA T3.5.1-D05 Alt B Extra high flow
D05JE	ISO 4401-05-05 NFFPA T3.5.1-D05 Alt A Extra high flow

Port Location	
B	Back ported

P, T, A, B Port Threads				X & Y port size (reference)
D05H or D05HE only		D05J or D05JE only		
12P	0.75-14 NPTF ANSI B1.20.3	16P	1.00-11.5 NPTF ANSI B1.20.3	0.25-18 NPTF ANSI B1.20.3
12S	-12 SAE ISO 11926; SAE 1926	16S	-16 SAE ISO 11926; SAE 1926	-4 SAE ISO 11926; SAE 1926
12B	0.75-14 BSPP ISO 1179; BS 2779	16B	1.00-11 BSPP ISO 1179; BS 2779	0.25-19 BSPP ISO 1179; BS 2779
12M	M27 x 2.0 ISO 6149	16M	M33 x 2.0 ISO 6149	M10 x 1.0 ISO 6149
12T	0.75-14 BSPT ISO 7; BS 21	16T	1.00-11 BSPT ISO 7; BS 21	0.25-19 BSPT ISO 7; BS 21

Product Type	
SP	Subplate

Daman Products Company, Inc.

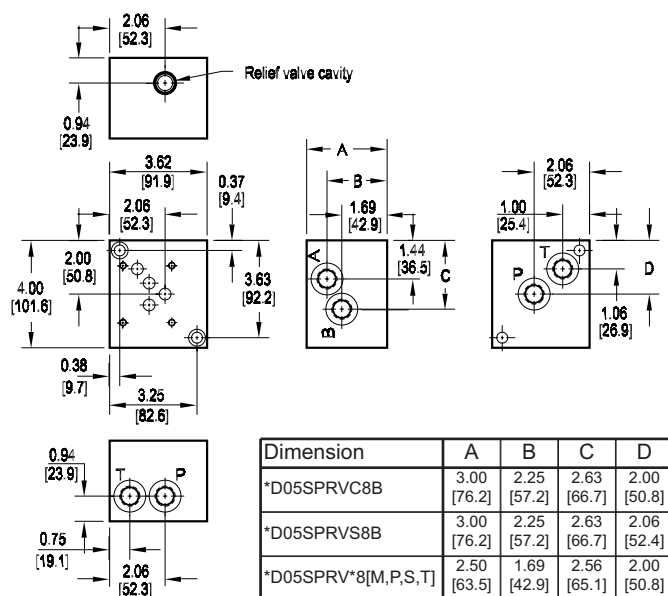
1811 North Home Street • Mishawaka, Indiana 46545-7267 USA • North America: 800.959.7841 • Fax: 800.241.7664

International: 574.259.7841 • Fax: 574.259.7665 • Email: sales@damanifolds.com • Web: www.damanifolds.com

D05 Subplates with Relief Cavity

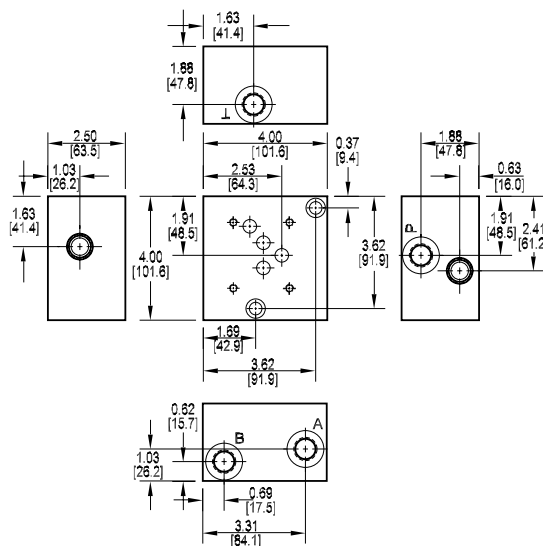
Dual Ported Subplate with Main Relief Cavity

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Side Ported Subplate with Cylinder Port Crossover Relief Cavities

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied.
See page 122 for itemized list.



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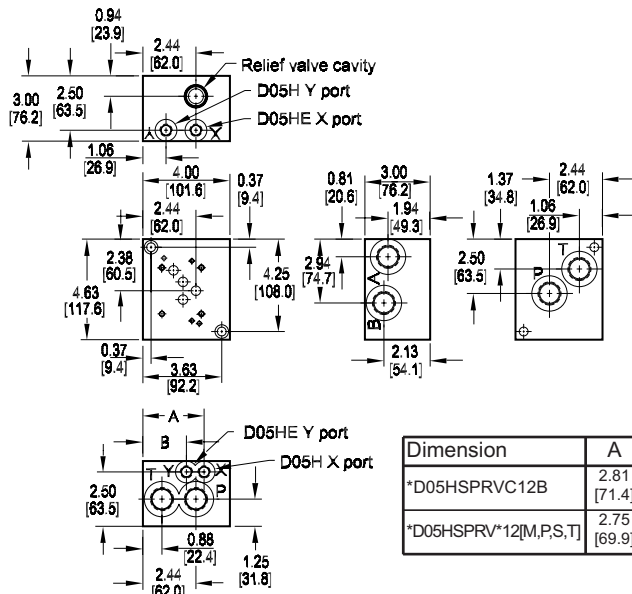
Ordering Information

Material		Valve Pattern		Product Type		Circuit		Relief Cavity		Port Threads																																									
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D05</td><td>ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information</td></tr></table>		Valve Pattern		D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>SP</td><td>Subplate</td></tr></table>		Product Type		SP	Subplate	<table><tr><th colspan="2">Circuit</th></tr><tr><td>RV</td><td>Main Relief P to T</td></tr><tr><td>CR</td><td>Crossover Reliefs A to B and B to A</td></tr></table>		Circuit		RV	Main Relief P to T	CR	Crossover Reliefs A to B and B to A	<table><tr><th colspan="2">Relief Cavity</th></tr><tr><td>C</td><td>Common cavity C-10-2 (P in nose)</td></tr><tr><td>S</td><td>Sun Cavity T-10A (P in nose) See Tech Info for valves.</td></tr></table>		Relief Cavity		C	Common cavity C-10-2 (P in nose)	S	Sun Cavity T-10A (P in nose) See Tech Info for valves.	<table><tr><th colspan="2">Port Threads</th></tr><tr><td>8P</td><td>0.50-14 NPTF ANSI B1.20.3</td></tr><tr><td>8S</td><td>-8 SAE ISO 11926; SAE 1926</td></tr><tr><td>8B</td><td>0.50-14 BSPP ISO 1179; BS 2779</td></tr><tr><td>8M</td><td>M18 x 1.5 ISO 6149</td></tr><tr><td>8T</td><td>0.50-14 BSPT ISO 7; BS 21</td></tr></table>		Port Threads		8P	0.50-14 NPTF ANSI B1.20.3	8S	-8 SAE ISO 11926; SAE 1926	8B	0.50-14 BSPP ISO 1179; BS 2779	8M	M18 x 1.5 ISO 6149	8T	0.50-14 BSPT ISO 7; BS 21
Material																																																			
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																																		
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																																		
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.																																																			
Valve Pattern																																																			
D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information																																																		
Product Type																																																			
SP	Subplate																																																		
Circuit																																																			
RV	Main Relief P to T																																																		
CR	Crossover Reliefs A to B and B to A																																																		
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C	Common cavity C-10-2 (P in nose)																																																		
S	Sun Cavity T-10A (P in nose) See Tech Info for valves.																																																		
Port Threads																																																			
8P	0.50-14 NPTF ANSI B1.20.3																																																		
8S	-8 SAE ISO 11926; SAE 1926																																																		
8B	0.50-14 BSPP ISO 1179; BS 2779																																																		
8M	M18 x 1.5 ISO 6149																																																		
8T	0.50-14 BSPT ISO 7; BS 21																																																		

D05 High Flow Subplates with Pilot Ports and Relief Cavity

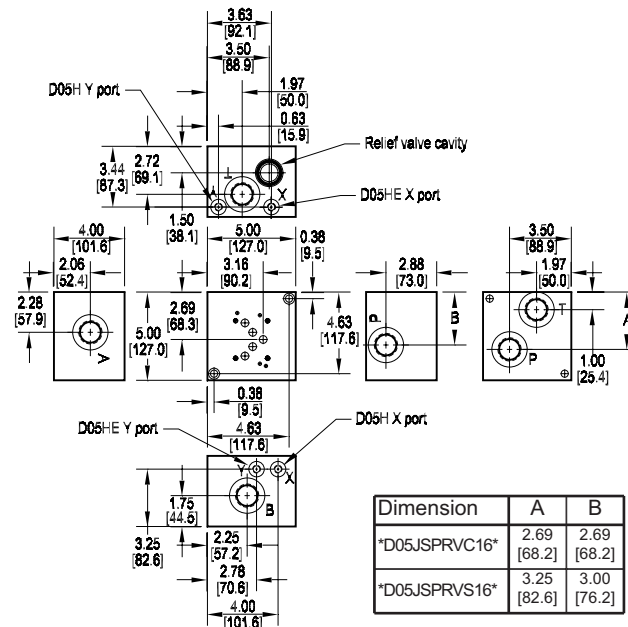
D05H High Flow Subplate with Main Relief Cavity

Valve mtg: UNC 0.25-20 x 0.75 DP or Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied. See page 121 for itemized list.



D05J Extra High Flow Subplate with Main Relief Cavity

Valve mtg: UNC 0.25-20 x 0.75 DP or Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied. See page 122 for itemized list.



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Ordering Information

Material		Valve Pattern		Product Type		Circuit		Relief Cavity		Port Threads		
Material		Product Type		Circuit		Relief Cavity		P, T, A,B Port Threads				
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	SP	Subplate	RV	Main Relief P to T	Relief Cavity		D05H only		D05J only		X & Y port size (reference)
D	Ductile Iron - D4512 5000† psi • 34.5 MPa					C Common cavity C-10-2 on D05H (P in nose) C-16-2 on D05J (P in nose) S Sun Cavity T-3A on D05H (P in nose) T-16A on D05J (P in nose) See Tech Info for valves	12P	0.75-14 NPTF ANSI B1.20.3	16P	1.00-11.5 NPTF ANSI B1.20.3	0.25-18 NPTF ANSI B1.20.3	
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.							12S	-12 SAE ISO 11926; SAE 1926	16S	-16 SAE ISO 11926; SAE 1926	-4 SAE ISO 11926; SAE 1926	
							12B	0.75-14 BSPP ISO 1179; BS 2779	16B	1.00-11 BSPP ISO 1179; BS 2779	0.25-19 BSPP ISO 1179; BS 2779	
							12M	M27 x 2.0 ISO 6149	16M	M33 x 2.0 ISO 6149	M10 x 1.0 ISO 6149	
							12T	0.75-14 BSPT ISO 7; BS 21	16T	1.00-11 BSPT ISO 7; BS 21	0.25-19 BSPT ISO 7; BS 21	
Valve Pattern See Tech Information												
D05H		ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B High flow										
D05J		ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B Extra high flow										

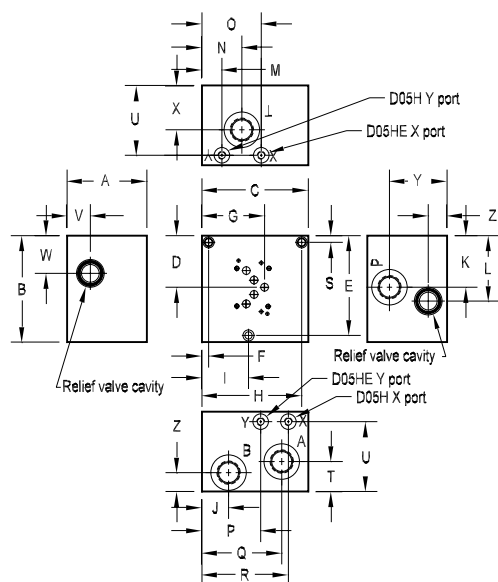
D05 High Flow Subplates with Pilot Ports and Relief Cavity

Side Ported Subplate with Cylinder Port
Crossover Relief Cavities

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP

Subplate hardware kit is supplied.

See page 122 for itemized list.



Dimension	A	B	C	D	E	F	G	H	I
*D05HSPCR*12*	4.50 [114.3]	5.00 [127.0]	5.00 [127.0]	2.41 [61.1]	4.63 [117.5]	--	3.03 [77.0]	4.63 [117.5]	2.13 [54.0]
*D05JSPCR*16*	4.50 [114.3]	5.00 [127.0]	5.00 [127.0]	2.41 [61.1]	4.63 [117.5]	--	3.03 [77.0]	4.63 [117.5]	2.13 [54.0]
D05JSPCRS16	4.50 [114.3]	6.00 [152.4]	6.00 [152.4]	2.91 [73.8]	5.63 [142.9]	0.38 [9.7]	3.53 [89.7]	5.63 [142.9]	2.63 [66.7]

Dimension	J	K	L	M	N	O	P	Q	R
*D05HSPCR*12*	1.00 [25.4]	2.41 [61.1]	3.00 [76.2]	0.63 [15.9]	2.00 [50.8]	2.85 [72.3]	2.81 [71.4]	4.00 [101.6]	4.38 [111.1]
*D05JSPCR*16*	1.00 [25.4]	2.41 [61.1]	3.00 [76.2]	0.63 [15.9]	1.75 [44.5]	2.85 [72.3]	2.81 [71.4]	4.00 [101.6]	4.38 [111.1]
D05JSPCRS16	1.50 [38.1]	2.91 [73.8]	3.69 [93.7]	1.13 [28.6]	2.25 [57.2]	3.35 [85.0]	3.31 [84.1]	4.50 [114.3]	4.88 [124.0]

Dimension	S	T	U	V	W	X	Y	Z
*D05HSPCR*12*	0.38 [9.5]	1.69 [42.9]	3.94 [100.0]	1.47 [37.3]	1.75 [44.5]	2.50 [63.5]	3.25 [82.6]	1.28 [32.5]
D05HSPCRS12	0.38 [9.5]	1.69 [42.9]	3.94 [100.0]	1.31 [33.3]	1.75 [44.5]	2.50 [63.5]	3.25 [82.6]	1.06 [27.0]
*D05JSPCR*16*	0.38 [9.5]	1.69 [42.9]	3.94 [100.0]	1.31 [33.3]	1.75 [44.5]	2.50 [63.5]	3.25 [82.6]	1.06 [27.0]
D05JSPCRS16	0.38 [9.5]	1.69 [42.9]	3.94 [100.0]	1.31 [33.3]	2.13 [54.0]	2.50 [63.5]	3.25 [82.6]	1.06 [27.0]

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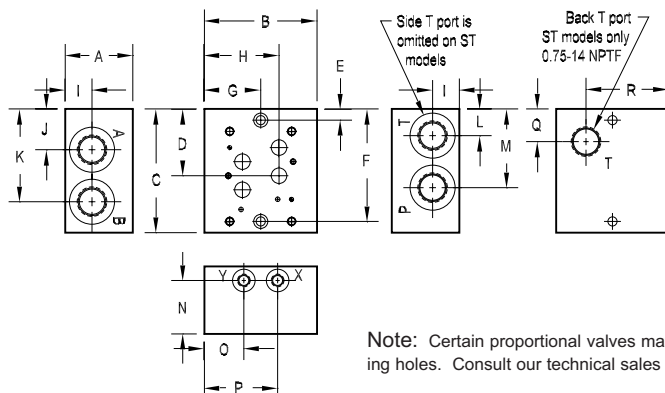
Ordering Information

Material		Valve Pattern		Product Type		Circuit		Relief Cavity		Port Threads			
Material		Product Type		Circuit		Relief Cavity		P, T, A, B Port Threads					
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	SP	Subplate	CR	Crossover Reliefs A to B and B to A	Relief Cavity		D05H only		D05J only		X & Y port size (reference)	
D	Ductile Iron - D4512 5000† psi • 34.5 MPa					C	Common cavity C-10-2 on D05H (P in nose) C-16-2 on D05J (P in nose)	12P	0.75-14 NPTF ANSI B1.20.3	16P	1.00-11.5 NPTF ANSI B1.20.3		0.25-18 NPTF ANSI B1.20.3
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.						S	Sun Cavity T-3A on D05H (P in nose) T-16A on D05J (P in nose) See Tech Info for valves	12S	-12 SAE ISO 11926; SAE 1926	16S	-16 SAE ISO 11926; SAE 1926		-4 SAE ISO 11926; SAE 1926
								12B	0.75-14 BSPP ISO 1179; BS 2779	16B	1.00-11 BSPP ISO 1179; BS 2779		0.25-19 BSPP ISO 1179; BS 2779
								12M	M27 x 2.0 ISO 6149	16M	M33 x 2.0 ISO 6149		M10 x 1.0 ISO 6149
								12T	0.75-14 BSPT ISO 7; BS 21	16T	1.00-11 BSPT ISO 7; BS 21		0.25-19 BSPT ISO 7; BS 21
Valve Pattern See Tech Information													
D05H		ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B High flow											
D05J		ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B Extra high flow											

D07 Subplates

Side Ported Subplate

Valve mtg: UNC 0.25-20 x 0.75 DP and UNC 0.38-16 x 1.00 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP and M10-1.5mm ISO 6H x [25.4] DP
Subplate hardware kit is supplied.
See page 122 for itemized list.

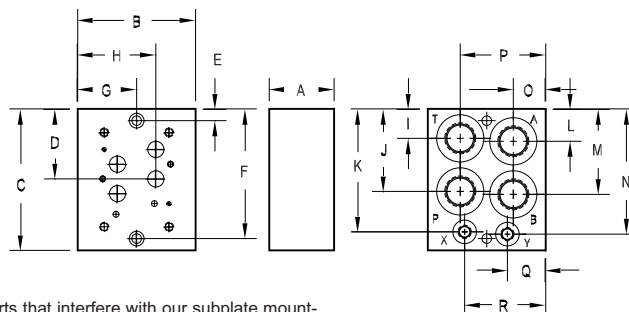


Note: Certain proportional valves may have ports that interfere with our subplate mounting holes. Consult our technical sales team for information or custom subplate pricing.

Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
D07SPSO12	1.75 [44.5]	3.75 [95.3]	4.75 [120.7]	2.34 [59.4]	0.38 [9.5]	4.38 [111.3]	1.88 [47.8]	2.69 [68.3]	0.81 [20.6]	1.50 [38.1]	3.13 [79.5]	1.19 [30.2]	2.78 [70.6]	1.25 [31.8]	1.12 [28.4]	2.62 [66.5]	--	--
D07SPST12	1.75 [44.5]	3.75 [95.3]	4.75 [120.7]	2.34 [59.4]	0.38 [9.5]	4.38 [111.3]	1.88 [47.8]	2.69 [68.3]	0.81 [20.6]	1.50 [38.1]	3.13 [79.5]	--	2.78 [70.6]	1.25 [31.8]	1.12 [28.4]	2.62 [66.5]	1.09 [27.7]	2.69 [68.3]
D07SPSO16	3.00 [76.2]	5.00 [127.0]	5.50 [139.7]	2.97 [75.4]	0.50 [12.7]	5.00 [127.0]	2.50 [63.5]	3.31 [84.2]	1.19 [30.2]	1.81 [46.0]	4.13 [104.8]	1.19 [30.2]	3.50 [88.9]	2.38 [60.3]	1.75 [44.5]	3.25 [82.6]	--	--
*D07SPB12B	1.50 [38.1]	4.00 [101.6]	4.75 [120.7]	2.34 [59.4]	0.38 [9.5]	4.37 [111.0]	2.00 [50.8]	2.81 [71.4]	1.09 [27.7]	2.75 [69.9]	4.00 [101.6]	1.19 [30.2]	2.81 [71.4]	4.09 [103.9]	1.13 [28.7]	2.94 [74.7]	1.13 [28.7]	2.94 [74.7]
*D07SPB12[M,P,S,T]	1.50 [38.1]	4.00 [101.6]	4.75 [120.7]	2.34 [59.4]	0.38 [9.5]	4.37 [111.0]	2.00 [50.8]	2.81 [71.4]	1.09 [27.7]	2.81 [71.4]	4.00 [101.6]	1.25 [31.8]	2.91 [73.9]	4.09 [103.9]	1.13 [28.7]	2.94 [74.7]	1.13 [28.7]	2.94 [74.7]
D07SPB16	2.75 [69.9]	5.00 [101.6]	6.00 [152.4]	2.97 [75.4]	0.50 [12.7]	5.50 [139.7]	2.50 [63.5]	3.31 [84.2]	1.25 [31.8]	3.50 [88.9]	5.31 [134.9]	1.38 [34.9]	3.63 [92.1]	5.31 [134.9]	1.38 [34.9]	3.63 [92.1]	1.63 [41.3]	3.44 [87.3]

Back Ported Subplate

Valve mtg: UNC 0.25-20 x 0.75 DP and UNC 0.38-16 x 1.00 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP and M10-1.5mm ISO 6H x [25.4] DP
Subplate hardware kit is supplied.
See page 122 for itemized list.



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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern	
D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

Port Location	
SO	Side ported
ST	Side P,A,B ports Back T port. Available on 12P and 12S only
B	Back ported

Product Type	
SP	Subplate

P, T, A, B Port Threads*				X & Y port size (reference)
12P	0.75-14 NPTF ANSI B1.20.3	16P	1.00-11.5 NPTF ANSI B1.20.3	0.25-18 NPTF ANSI B1.20.3
12S	-12 SAE ISO 11926; SAE 1926	16S	-16 SAE ISO 11926; SAE 1926	-6 SAE ISO 11926; SAE 1926
12B	0.75-14 BSPP ISO 1179; BS 2779	16B	1.00-11 BSPP ISO 1179; BS 2779	0.25-19 BSPP ISO 1179; BS 2779
12M	M27 x 2.0 ISO 6149	16M	M33 x 2.0 ISO 6149	M14 x 1.5 ISO 6149
12T	0.75-14 BSPT ISO 7; BS 21	16T	1.00-11 BSPT ISO 7; BS 21	0.25-19 BSPT ISO 7; BS 21

* T port is always 0.75-14 NPTF on ST models.

D07 Subplates with Relief Cavity

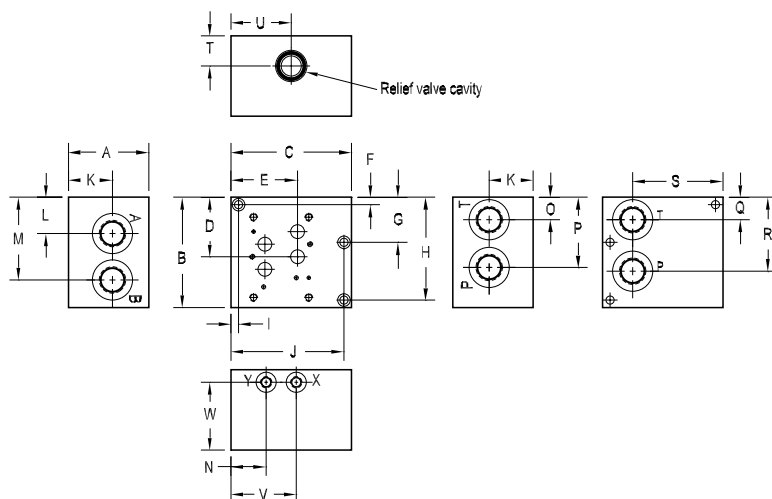
Dual Ported Subplate with Main Relief Cavity

Valve mtg: UNC 0.25-20 x 0.50 DP and UNC 0.38-16 x 0.75 DP or

Metric M6-1.0mm ISO 6H x [12.7] DP and M10-1.5mm ISO 6H x [19.1] DP

Subplate hardware kit is supplied.

See page 122 for itemized list.



Dimension	A	B	C	D	E	F	G	H
D07SPRVC12	2.75 [69.9]	4.75 [120.7]	4.00 [101.6]	2.34 [59.4]	2.81 [71.4]	0.38 [9.5]	--	4.37 [111.0]
D07SPRVS12	2.50 [63.5]	4.75 [120.7]	4.00 [101.6]	2.34 [59.4]	2.81 [71.4]	0.38 [9.5]	--	4.37 [111.0]
D07SPRVC16	4.00 [101.6]	5.50 [139.7]	6.00 [152.4]	2.97 [75.4]	3.31 [84.2]	0.38 [9.5]	2.25 [57.2]	5.13 [130.2]
D07SPRVS16	4.00 [101.6]	5.50 [139.7]	6.00 [152.4]	2.97 [75.4]	3.31 [84.2]	0.38 [9.5]	2.25 [57.2]	5.13 [130.2]

Dimension	I	J	K	L	M	N	O	P
D07SPRVC12	1.38 [35.1]	2.00 [50.8]	1.50 [38.1]	1.50 [38.1]	3.12 [79.2]	1.19 [30.2]	1.19 [30.2]	2.78 [70.6]
D07SPRVS12	1.38 [35.1]	2.00 [50.8]	1.25 [31.8]	1.50 [38.1]	3.12 [79.2]	1.19 [30.2]	1.19 [30.2]	2.78 [70.6]
D07SPRVC16	0.38 [9.5]	5.63 [142.9]	2.19 [55.6]	1.81 [46.0]	4.13 [104.8]	1.75 [44.5]	1.00 [25.4]	3.50 [88.9]
D07SPRVS16	0.38 [9.5]	5.63 [142.9]	2.19 [55.6]	1.81 [46.0]	4.13 [104.8]	1.75 [44.5]	1.13 [28.6]	3.50 [88.9]

Dimension	Q	R	S	T	U	V	W
D07SPRVC12	1.13 [28.6]	2.75 [69.9]	2.81 [71.4]	1.75 [44.5]	2.22 [56.4]	2.81 [71.4]	2.25 [57.2]
D07SPRVS12	1.13 [28.6]	2.75 [69.9]	2.81 [71.4]	1.25 [31.8]	2.31 [58.7]	2.81 [71.4]	2.00 [50.8]
D07SPRVC16	1.13 [28.6]	3.69 [93.7]	4.50 [114.3]	1.50 [38.1]	3.00 [76.2]	3.25 [82.6]	3.38 [85.7]
D07SPRVS16	1.13 [28.6]	3.69 [93.7]	4.50 [114.3]	1.50 [38.1]	3.00 [76.2]	3.25 [82.6]	3.38 [85.7]

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Ordering Information

Material	Valve Pattern	Product Type	Circuit	Relief Cavity	Port Threads
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern D07 ISO 4401-07-06 NFA T3.5.1-D07 See Tech Information	Product Type SP Subplate	Circuit RV Main Relief P to T	Relief Cavity C Common cavity C-10-2 w/ 12* ports (P in nose) C-16-2 w/ 16* ports (P in nose) S Sun Cavity T-3A w/ 12* ports (P in nose) T-16A w/ 16* ports (P in nose) See Tech Info for valves	P, T, A, B Port Threads 12P 0.75-14 NPTF ANSI B1.20.3 12S -12 SAE ISO 11926; SAE 1926 12B 0.75-14 BSPP ISO 1179; BS 2779 12M M27 x 2.0 ISO 6149 12T 0.75-14 BSPT ISO 7; BS 21 16P 1.00-11.5 NPTF ANSI B1.20.3 16S -16 SAE ISO 11926; SAE 1926 16B 1.00-11 BSPP ISO 1179; BS 2779 16M M33 x 2.0 ISO 6149 16T 1.00-11 BSPT ISO 7; BS 21 X & Y port size (reference) 0.25-18 NPTF ANSI B1.20.3 -6 SAE ISO 11926; SAE 1926 0.25-19 BSPP ISO 1179; BS 2779 M14 x 1.5 ISO 6149 0.25-19 BSPT ISO 7; BS 21

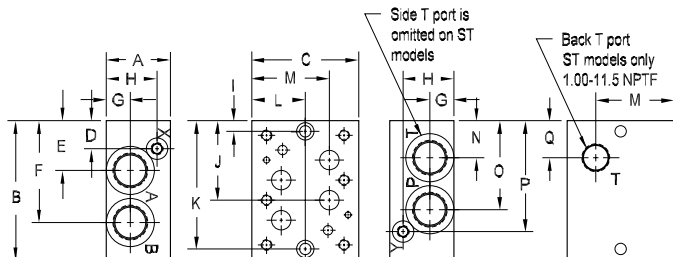
D08 Subplates

Side Ported Subplate

Valve mtg: UNC 0.50-13 x 1.19 DP or
Metric M12-1.75mm ISO 6H x [30.2] DP

Subplate hardware kit is supplied.

See page 122 for itemized list.

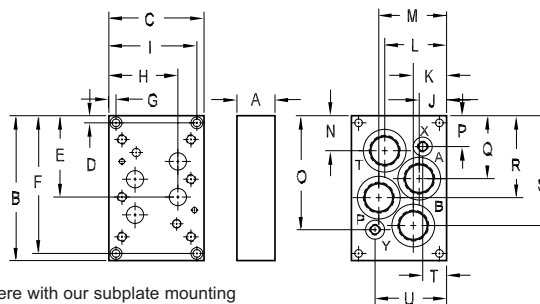


Back Ported Subplate

Valve mtg: UNC 0.50-13 x 1.19 DP or
Metric M12-1.75mm ISO 6H x [30.2] DP

Subplate hardware kit is supplied.

See page 122 for itemized list.



Note: Certain proportional valves may have ports that interfere with our subplate mounting holes. Consult our technical sales team for information or custom subplate pricing.

Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
*D08SPSO12P, *D08SPSO16*	2.00 [50.8]	6.13 [155.7]	4.50 [114.3]	1.19 [30.2]	2.53 [64.3]	4.53 [115.1]	1.00 [25.4]	1.00 [25.4]	0.50 [12.7]	3.53 [89.7]	5.62 [142.7]	2.25 [57.2]	3.38 [85.9]	1.56 [39.7]	3.59 [91.2]	4.94 [125.5]	--	--	--	--	--
*D08SPST12P, *D08SPST16*	2.00 [50.8]	6.13 [155.7]	4.50 [114.3]	1.19 [30.2]	2.53 [64.3]	4.53 [115.1]	1.00 [25.4]	1.00 [25.4]	0.50 [12.7]	3.53 [89.7]	5.62 [142.7]	2.25 [57.2]	3.38 [85.9]	--	3.59 [91.2]	4.94 [125.5]	1.66 [42.1]	3.38 [85.9]	--	--	--
D08SPSO20	3.00 [76.2]	6.50 [165.1]	5.00 [127.0]	1.31 [33.3]	2.33 [59.2]	4.77 [121.2]	1.13 [28.6]	2.38 [60.3]	0.50 [12.7]	3.72 [94.5]	6.00 [152.4]	2.50 [63.5]	3.63 [92.2]	1.73 [43.9]	4.17 [105.9]	5.19 [131.8]	--	--	--	--	--
*D08SPSO20M	4.00 [101.6]	6.50 [165.1]	5.00 [127.0]	1.38 [34.9]	2.33 [59.2]	4.77 [121.2]	1.63 [41.3]	3.13 [79.4]	0.50 [12.7]	3.72 [94.5]	6.00 [152.4]	2.50 [63.5]	3.63 [92.2]	1.73 [43.9]	4.17 [105.9]	5.13 [130.2]	--	--	--	--	--
*D08SPB16B	1.50 [38.1]	6.13 [155.7]	4.63 [117.6]	0.50 [12.7]	3.53 [89.7]	5.62 [142.7]	2.31 [58.7]	3.44 [87.4]	--	1.19 [30.2]	1.19 [30.2]	3.44 [87.4]	3.44 [87.4]	1.53 [38.9]	5.16 [131.0]	0.97 [24.6]	2.47 [62.7]	3.66 [92.9]	4.59 [116.7]	1.25 [31.8]	3.38 [85.9]
*D08SPB12P, *D08SPB16[M,P,S,T]	1.50 [38.1]	6.13 [155.7]	4.63 [117.6]	0.50 [12.7]	3.53 [89.7]	5.62 [142.7]	2.31 [58.7]	3.44 [87.4]	--	1.19 [30.2]	1.19 [30.2]	3.44 [87.4]	3.44 [87.4]	1.66 [42.2]	4.94 [125.5]	1.19 [30.2]	2.59 [65.8]	3.53 [89.7]	4.47 [113.5]	1.25 [31.8]	3.38 [85.9]
D08SPB20	2.00 [50.8]	7.63 [193.8]	5.00 [127.0]	0.38 [9.7]	4.28 [108.7]	7.25 [184.2]	0.38 [9.7]	3.63 [92.2]	4.63 [117.6]	1.44 [36.6]	1.75 [44.5]	3.25 [82.6]	3.56 [90.4]	1.84 [46.7]	6.00 [152.4]	1.63 [41.3]	3.31 [84.1]	4.31 [109.5]	5.78 [146.8]	1.44 [36.6]	3.56 [90.4]

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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type	
SP	Subplate

Port Location	
SO	Side ported
ST	Side P,A,B ports; back T port. Available on 12P, 16P and 16S only
B	Back ported

Valve Pattern	
D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

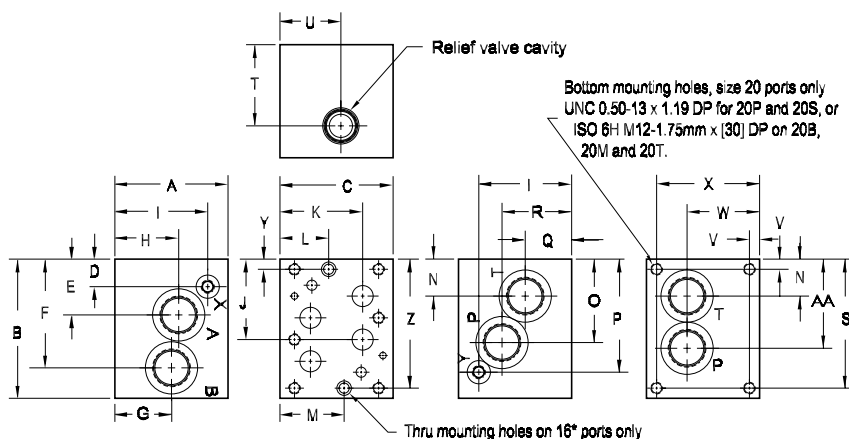
P, T, A, B Port Threads*				X & Y port size (reference)
12P	0.75-14 NPTF ANSI B1.20.3			0.25-18 NPTF ANSI B1.20.3
16P	1.00-11.5 NPTF ANSI B1.20.3	20P	1.25-11.5 NPTF ANSI B1.20.3	0.25-18 NPTF ANSI B1.20.3
16S	-16 SAE ISO 11926; SAE 1926	20S	-20 SAE ISO 11926; SAE 1926	-6 SAE ISO 11926; SAE 1926
16B	1.00-11 BSPP ISO 1179; BS 2779	20B	1.25-11 BSPP ISO 1179; BS 2779	0.25-19 BSPP ISO 1179; BS 2779
16M	M33 x 2.0 ISO 6149	20M	M42 x 2.0 ISO 6149	M14 x 1.5 ISO 6149
16T	1.00-11 BSPT ISO 7; BS 21	20T	1.25-11 BSPT ISO 7; BS 21	0.25-19 BSPT ISO 7; BS 21

* T port is always 1.00-11.5 NPTF on ST models.

D08 Subplates with Relief Valve

Dual Ported Subplate with Main Relief Cavity

Valve mtg: UNC 0.50-13 x 1.19 DP or
Metric M12-1.75mm ISO 6H x [30.2] DP
Subplate hardware kit is supplied.
See page 122 for itemized list.



Note: Certain proportional valves may have ports that interfere with our subplate mounting holes. Consult our technical sales team for information or custom subplate pricing.

Dimension	A	B	C	D	E	F	G
D08SPRVC16	3.00 [76.2]	6.00 [152.4]	4.50 [114.3]	0.91 [23.1]	2.41 [61.2]	4.53 [115.1]	1.87 [47.5]
D08SPRVS16	3.00 [76.2]	6.00 [152.4]	4.50 [114.3]	0.91 [23.1]	2.41 [61.2]	4.53 [115.1]	1.87 [47.5]
*D08SPRV*20*	4.88 [124.0]	6.00 [152.4]	4.88 [124.0]	1.19 [30.2]	2.41 [61.2]	4.69 [119.1]	2.75 [69.9]
*D08SPRV*20M	4.88 [124.0]	6.00 [152.4]	4.88 [124.0]	1.19 [30.2]	2.41 [61.2]	4.69 [119.1]	2.00 [50.8]

Dimension	H	I	J	K	L	M	N
D08SPRVC16	1.87 [47.5]	1.25 [31.8]	3.47 [88.1]	3.38 [85.9]	1.68 [42.7]	2.56 [65.0]	1.47 [37.3]
D08SPRVS16	1.87 [47.5]	1.25 [31.8]	3.47 [88.1]	3.38 [85.9]	1.68 [42.7]	2.56 [65.0]	1.47 [37.3]
*D08SPRV*20*	2.75 [69.9]	4.00 [101.6]	3.47 [88.1]	3.56 [90.4]	--	--	1.59 [40.4]
*D08SPRV*20M	2.75 [69.9]	4.00 [101.6]	3.47 [88.1]	3.56 [90.4]	--	--	1.59 [40.4]

Dimension	O	P	Q	R	S	T	U
D08SPRVC16	3.59 [91.2]	5.09 [129.3]	1.87 [47.5]	1.87 [47.5]	--	1.25 [31.8]	2.47 [62.7]
D08SPRVS16	3.59 [91.2]	5.09 [129.3]	1.87 [47.5]	1.87 [47.5]	--	1.87 [47.5]	2.81 [71.4]
*D08SPRV*20*	3.60 [91.4]	4.88 [124.0]	2.00 [50.8]	3.00 [76.2]	5.56 [141.2]	3.50 [88.9]	2.63 [66.7]
*D08SPRV*20M	4.00 [101.6]	4.88 [124.0]	2.00 [50.8]	2.38 [60.3]	5.56 [141.2]	3.50 [88.9]	2.63 [66.7]

Dimension	V	W	X	Y	Z	AA
D08SPRVC16	--	3.50 [88.9]	--	0.44 [11.2]	5.56 [141.2]	3.59 [91.2]
D08SPRVS16	--	3.50 [88.9]	--	0.44 [11.2]	5.56 [141.2]	3.59 [91.2]
*D08SPRV*20*	0.44 [11.2]	3.13 [79.5]	4.44 [112.8]	--	--	3.84 [97.6]
*D08SPRV*20M	0.44 [11.2]	3.13 [79.5]	4.44 [112.8]	--	--	4.00 [101.6]

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Ordering Information

Material	Valve Pattern	Product Type	Circuit	Relief Cavity	Port Threads
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	

Product Type	
SP	Subplate

Circuit	
RV	Main Relief P to T

Relief Cavity	
C	Common cavity C-10-2 w/ 16* ports (P in nose) C-16-2 w/ 20* ports (P in nose)
S	Sun Cavity T-3A w/ 16* ports (P in nose) T-16A w/ 20* ports (P in nose) See Tech Info for valves

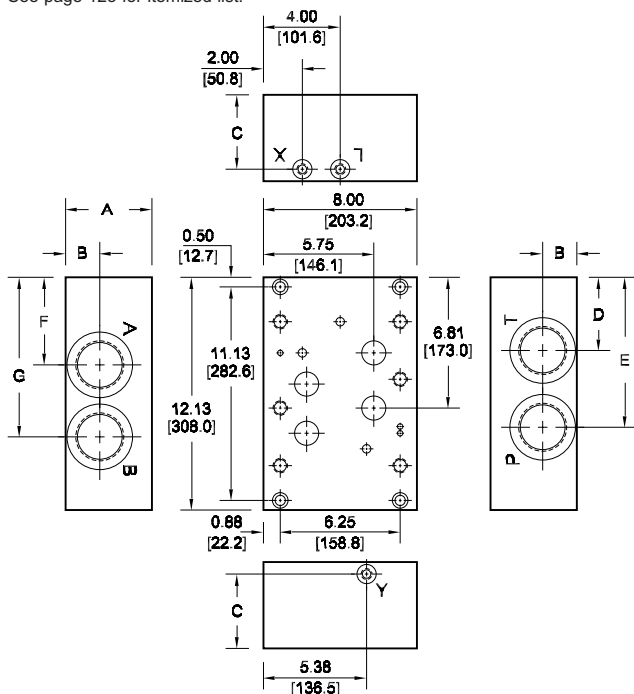
Valve Pattern	
D08	ISO 4401-08-07 NPTA T3.5.1-D08 See Technical Info

P, T, A, B Port Threads			X & Y port size (reference)
16P	1.00-11.5 NPTF ANSI B1.20.3	20P	1.25-11.5 NPTF ANSI B1.20.3
16S	-16 SAE ISO 11926; SAE 1926	20S	-20 SAE ISO 11926; SAE 1926
16B	1.00-11 BSPP ISO 1179; BS 2779	20B	1.25-11 BSPP ISO 1179; BS 2779
16M	M33 x 2.0 ISO 6149	20M	M42 x 2.0 ISO 6149
16T	1.00-11 BSPT ISO 7; BS 21	20T	1.25-11 BSPT ISO 7; BS 21

D10 Subplates

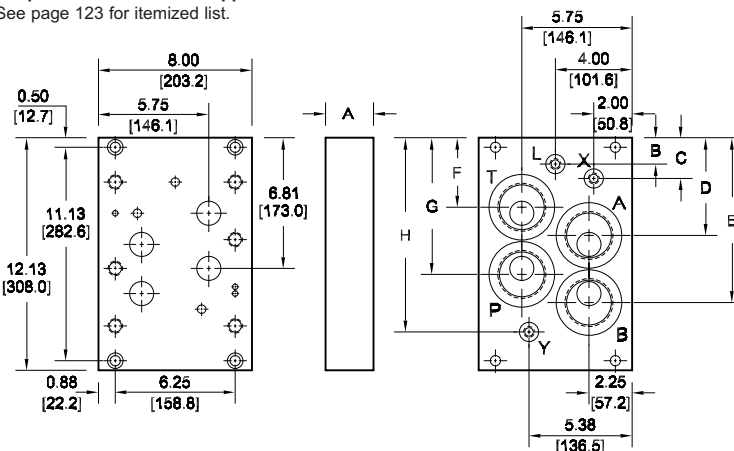
Side Ported Subplate

Valve mtg: UNC 0.75-10 x 1.63 [41.3] DP
Subplate hardware kit is supplied.
See page 123 for itemized list.



Back Ported Subplate

Valve mtg: UNC 0.75-10 x 1.63 [41.3] DP
Subplate hardware kit is supplied.
See page 123 for itemized list.



Dimension	A	B	C	D	E	F	G	H
*D10SPSO20P	3.50 [88.9]	1.75 [44.5]	2.88 [73.0]	3.81 [96.8]	7.13 [181.0]	5.22 [132.6]	8.31 [211.2]	--
D10SPSO24	4.00 [101.6]	1.75 [44.5]	3.38 [85.7]	3.81 [96.8]	7.13 [181.0]	5.22 [132.6]	8.31 [211.2]	--
D10SPSO32	4.50 [114.3]	1.78 [45.2]	3.88 [98.4]	3.81 [96.8]	7.81 [198.4]	4.56 [115.9]	8.31 [211.2]	--
*D10SPB20P	2.00 [50.8]	2.31 [58.7]	3.94 [100.0]	5.81 [147.6]	8.61 [218.7]	3.94 [100.0]	6.81 [173.0]	8.94 [227.0]
D10SPB24	2.50 [63.5]	1.38 [34.9]	2.13 [54.0]	5.09 [129.4]	8.59 [218.3]	3.63 [92.1]	7.13 [181.0]	10.13 [257.2]

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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	

Product Type	
SP	Subplate

P, T, A, B Port Threads			X, Y, & L port size (reference)
20P	1.25-11.5 NPTF ANSI B1.20.3		0.38-18 NPTF ANSI B1.20.3
24P	1.50-11.5 NPTF ANSI B1.20.3	32P	2.00-11.5 NPTF ANSI B1.20.3
24S	-24 SAE ISO 11926; SAE 1926	32S	-32 SAE ISO 11926; SAE 1926
			-6 SAE ISO 11926; SAE 1926

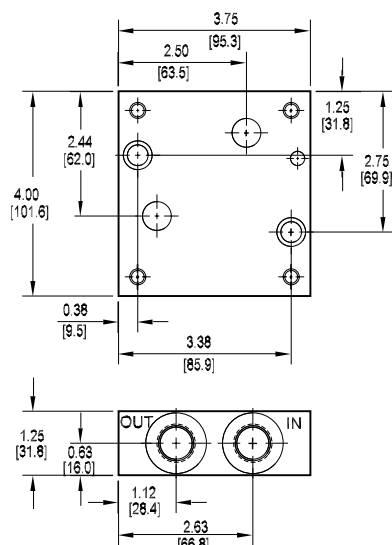
Valve Pattern	
D10	ISO 4401-10-08 NFFPA T3.5.1-D10 See Tech Information

Port Location	
SO	Side ported
B	Back ported

2F06, 2F07 Flow Control Subplates

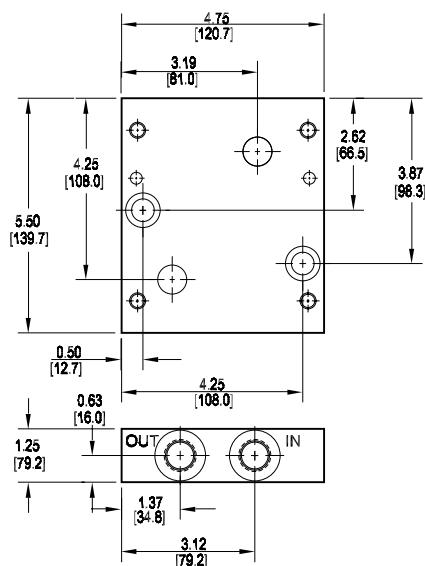
2F06 Side Ported Subplate

Valve mtg: UNC 0.31-18 x 0.88 DP
Subplate hardware kit is supplied.
See page 123 for itemized list.



2F07 Side Ported Subplate

Valve mtg: UNC 0.38-16 x 1.00 DP
Subplate hardware kit is supplied.
See page 123 for itemized list.



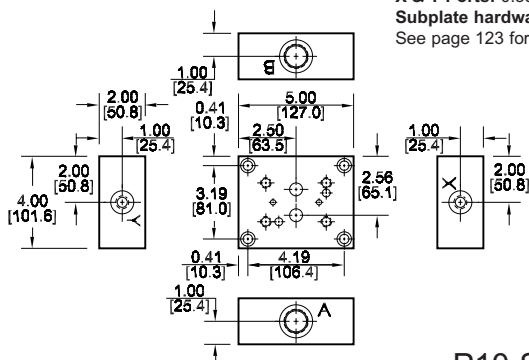
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Ordering Information

Material		Valve Pattern		Product Type		Port Location		Port Threads																									
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.				<table><tr><th colspan="2">Product Type</th></tr><tr><td>SP</td><td>Subplate</td></tr></table>		Product Type		SP	Subplate			<table><tr><th colspan="2">Port Threads</th></tr><tr><td colspan="2">2F06 only</td></tr><tr><td>6P</td><td>0.38-18 NPTF ANSI B1.20.3</td></tr><tr><td colspan="2">2F06 or 2F07</td></tr><tr><td>8P</td><td>0.50-14 NPTF ANSI B1.20.3</td></tr><tr><td>8S</td><td>-8 SAE ISO 11926; SAE 1926</td></tr></table>		Port Threads		2F06 only		6P	0.38-18 NPTF ANSI B1.20.3	2F06 or 2F07		8P	0.50-14 NPTF ANSI B1.20.3	8S	-8 SAE ISO 11926; SAE 1926
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		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>2F06</td><td>ISO 6263-06-05 NFFPA T3.5.1-2F06 See Tech Information</td></tr><tr><td>2F07</td><td>ISO 6263-07-09 NFFPA T3.5.1-2F07 See Tech Information</td></tr></table>		Valve Pattern		2F06	ISO 6263-06-05 NFFPA T3.5.1-2F06 See Tech Information	2F07	ISO 6263-07-09 NFFPA T3.5.1-2F07 See Tech Information			<table><tr><th colspan="2">Port Location</th></tr><tr><td>S</td><td>Side ported</td></tr></table>		Port Location		S	Side ported																
Valve Pattern																																	
2F06	ISO 6263-06-05 NFFPA T3.5.1-2F06 See Tech Information																																
2F07	ISO 6263-07-09 NFFPA T3.5.1-2F07 See Tech Information																																
Port Location																																	
S	Side ported																																

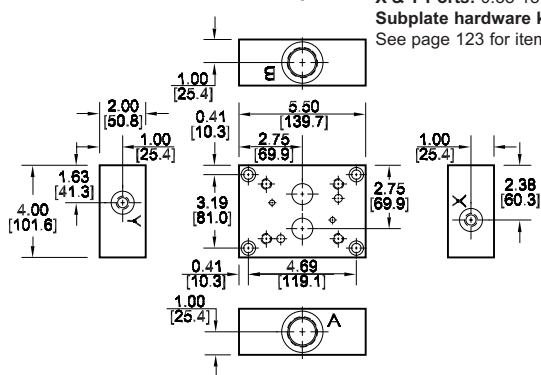
P06, P08, P10 Pressure Control Subplates

P06 Side Ported Subplate



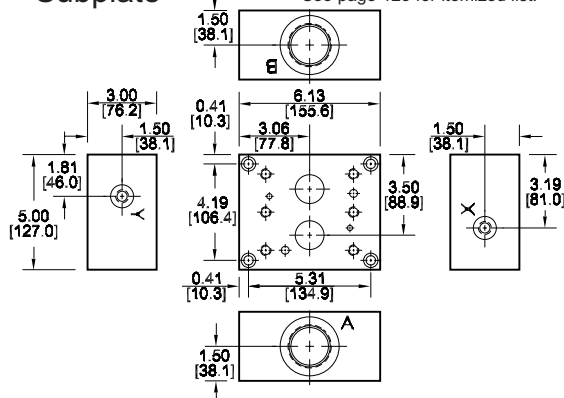
Valve mtg: UNC 0.38-16 x 1.00 [25] DP
X & Y Ports: 0.38-18 NPTF or -6 SAE.
Subplate hardware kit is supplied.
See page 123 for itemized list.

P08 Side Ported Subplate



Valve mtg: UNC 0.38-16 x 1.00 [25] DP
X & Y Ports: 0.38-18 NPTF or -6 SAE.
Subplate hardware kit is supplied.
See page 123 for itemized list.

P10 Side Ported Subplate



Valve mtg: UNC 0.38-16 x 1.00 [25] DP
X & Y Ports: 0.38-18 NPTF or -6 SAE.
Subplate hardware kit is supplied.
See page 123 for itemized list.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads
----------	---------------	--------------	---------------	--------------

Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	

Valve Pattern	
P06	ISO 6264-06-07 ISO 5781-06-07 NFPA T3.5.1-[R]P06 See Tech Information
P08	ISO 6264-08-11 ISO 5781-08-10 NFPA T3.5.1-[R]P08 See Tech Information
P10	ISO 6264-10-15 ISO 5781-10-13 NFPA T3.5.1-[R]P10 See Tech Information

Port Location	
S	Side ported

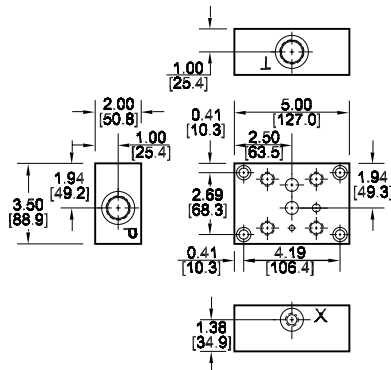
Product Type	
SP	Subplate

Port Threads			
P06 only			
08P	0.50-14 NPTF ANSI B1.20.3	08S	-8 SAE ISO 11926; SAE 1926
P06 or P08			
12P	0.75-14 NPTF ANSI B1.20.3	12S	-12 SAE ISO 11926; SAE 1926
P08 only			
16P	1.00-11.5 NPTF ANSI B1.20.3	16S	-16 SAE ISO 11926; SAE 1926
P10 only			
20P	1.25-11.5 NPTF ANSI B1.20.3	20S	-20 SAE ISO 11926; SAE 1926
24P	1.50-11.5 NPTF ANSI B1.20.3	24S	-24 SAE ISO 11926; SAE 1926

R06, R08, I08, R10, I10 Relief Valve Subplates

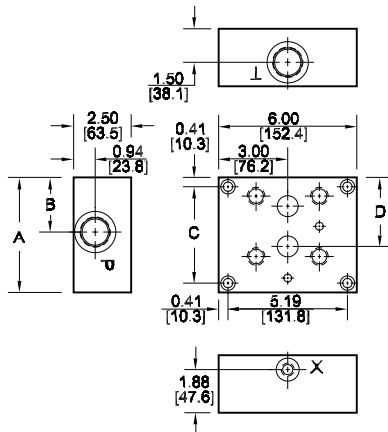
R06 (I06) Side Ported Subplate

Valve mtg: UNC 0.50-13 x 1.00 [25] DP
X Port: 0.38-18 NPTF or -6 SAE.
Subplate hardware kit is supplied.
 See page 123 for itemized list.



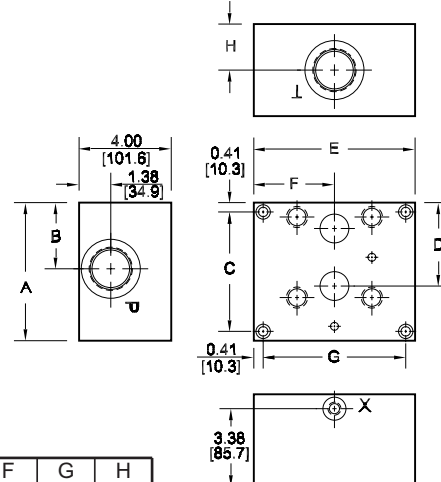
R08, I08 Side Ported Subplate

Valve mtg: UNC 0.63-11 x 1.44 [36] DP
X Port: 0.38-18 NPTF or -6 SAE.
Subplate hardware kit is supplied.
 See page 123 for itemized list.



R10, I10 Side Ported Subplate

Valve mtg: UNC 0.75-10 x 1.63 [41] DP
X Port: 0.38-18 NPTF or -6 SAE.
Subplate hardware kit is supplied.
 See page 123 for itemized list.



Dimension	A	B	C	D	E	F	G	H
R08SPS12	5.00	2.38	4.19	3.00	--	--	--	--
R08SPS16	[127.0]	[60.3]	[106.4]	[76.2]	--	--	--	--
I08SPS12	4.50	2.44	3.69	2.75	--	--	--	--
I08SPS16	[114.3]	[61.9]	[93.7]	[69.9]	--	--	--	--
R10SPS20	6.00	2.88	5.19	3.63	7.00	3.50	6.19	2.00
R10SPS24	[152.4]	[73.0]	[131.8]	[92.1]	[177.8]	[88.9]	[157.2]	[50.8]
I10SPS20	5.00	2.38	4.19	3.06	7.38	3.69	6.56	2.63
I10SPS24	[127.0]	[60.3]	[106.4]	[77.8]	[187.3]	[93.7]	[166.7]	[66.7]

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern R06 ISO 6264-06-09 NFPA T3.5.1-R06 See Tech Information R08 ISO 6264-08-13 NFPA T3.5.1-R08 See Tech Information I08 NFPA T3.5.1-RV08 See Tech Information R10 ISO 6264-10-17 NFPA T3.5.1-R10 See Tech Information I10 NFPA T3.5.1-RV10 See Tech Information	Product Type SP Subplate	Port Location S Side ported	Port Threads R06 only 08P 0.50-14 NPTF ANSI B1.20.3 08S -8 SAE ISO 11926; SAE 1926 R06, R08, or I08 12P 0.75-14 NPTF ANSI B1.20.3 12S -12 SAE ISO 11926; SAE 1926 R08 or I08 16P 1.00-11.5 NPTF ANSI B1.20.3 16S -16 SAE ISO 11926; SAE 1926 R10 or I10 20P 1.25-11.5 NPTF ANSI B1.20.3 20S -20 SAE ISO 11926; SAE 1926 24P 1.50-11.5 NPTF ANSI B1.20.3 24S -24 SAE ISO 11926; SAE 1926

Subplate Mounting Hardware

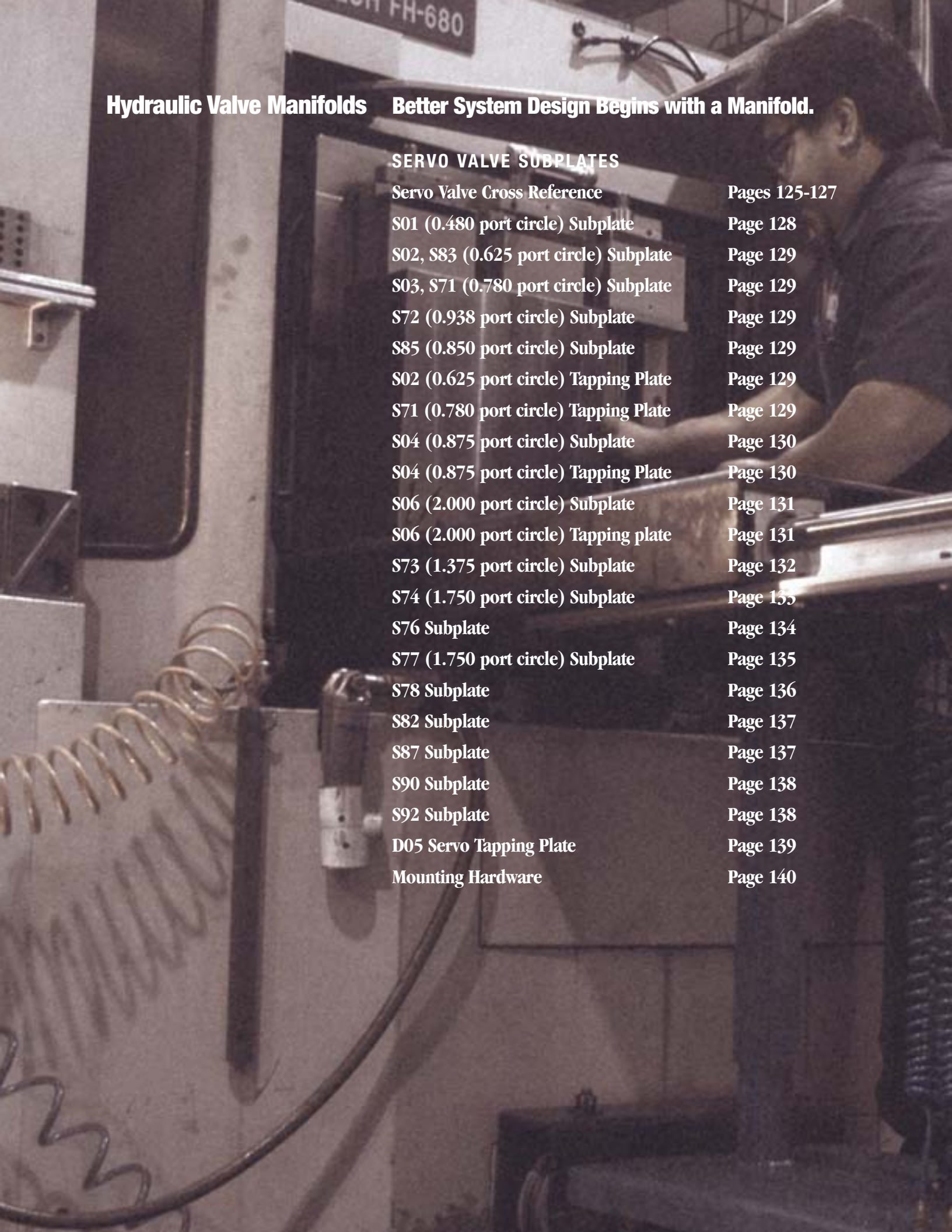
Part no.	Cat. pg.	Mounting Screws	Plugs
* D02 SP * 4P, 4S	101	(2) UNC 0.25-20 x 0.88 long SHCS	n/a
* D02 SP * 4B, 4M, 4T	101	(2) ISO 6H M6-1.0 x 22mm SHCS	n/a
* D03 SP * 4P, 6P, 6S	102	(2) UNC 0.25-20 x 0.88 long SHCS	n/a
* D03 SP * 6B, 6M, 6T	102	(2) ISO 6H M6-1.0 x 22mm SHCS	n/a
* D03 SP * 8P, 8S	102	(2) UNC 0.25-20 x 1.50 long SHCS	n/a
* D03 SP * 8B, 8M, 8T	102	(2) ISO 6H M6-1.0 x 40mm SHCS	n/a
* D03 SP S 12P, 12S	102	(2) UNC 0.38-16 x 1.75 long SHCS	n/a
* D03 SP S 12B, 12M, 12T	102	(2) ISO 6H M10-1.5 x 45mm SHCS	n/a
* D03 SP B 12P, 12S	102	(2) UNC 0.38-16 x 1.50 long SHCS	n/a
* D03 SP B 12B, 12M, 12T	102	(2) ISO 6H M10-1.5 x 40mm SHCS	n/a
* D03 SP SB 6P	103	(2) UNC 0.25-20 x 1.50 long SHCS	(2) 0.38-18 NPTF LSPP
* D03 SP SB 6S	103		(2) -6 SAE hex socket plug
* D03 SP SB 6B, 6M, 6T	103	(2) ISO 6H M6-1.0 x 40mm SHCS	n/a
* D03 SP SB 8P	103	(2) UNC 0.25-20 x 2.00 long SHCS	(2) 0.50-14 NPTF LSPP
* D03 SP SB 8S	103		(2) -8 SAE hex socket plug
* D03 SP SB 8B, 8M, 8T	103	(2) ISO 6H M6-1.0 x 50mm SHCS	n/a
* D03 SP M 8*	103	(4) UNC 0.31-18 x 2.50 long SHCS	n/a
* D03 SP RV * 6P	104	(2) UNC 0.31-18 x 2.25 long SHCS	(2) 0.38-18 NPTF LSPP
* D03 SP RV * 6S	104		(2) -6 SAE hex socket plug
* D03 SP RV * 6B, 6M, 6T	104	(2) ISO 6H M8-1.25 x 60mm SHCS	n/a
* D03 SP RV * 8P	104	(2) UNC 0.38-16 x 3.00 long SHCS	(2) 0.50-14 NPTF LSPP
* D03 SP RV * 8S	104		(2) -8 SAE hex socket plug
* D03 SP RV * 8B, 8M, 8T	104	(2) ISO 6H M10-1.5 x 75mm SHCS	n/a
* D03 SP RV * 12P	104	(2) UNC 0.38-16 x 3.00 long SHCS	(2) 0.75-14 NPTF LSPP
* D03 SP RV * 12S	104		(2) -12 SAE hex socket plug
* D03 SP RV * 12B, 12M, 12T	104	(2) ISO 6H M10-1.5 x 75mm SHCS	n/a
* D03 SP CR * 6P, 6S	105	(2) UNC 0.31-18 x 2.50 long SHCS	n/a
* D03 SP CR * 6B, 6M, 6T	105	(2) ISO 6H M8-1.25 x 65mm SHCS	n/a
* D03 SP CR * 12P, 12S	105	(2) UNC 0.38-16 x 4.00 long SHCS	n/a
* D03 SP CR * 12B, 12M, 12T	105	(2) ISO 6H M10-1.5 x 100mm SHCS	n/a
* D05 SP S 6P, 8P, 8S	106	(2) UNC 0.38-16 x 1.25 long SHCS	n/a
* D05 SP S 8B, 8M, 8T	106	(2) ISO 6H M10-1.5 x 35mm SHCS	n/a
* D05 SP B 6P, 8P, 8S	106	(2) UNC 0.38-16 x 1.25 long SHCS	n/a
* D05 SP B 8B, 8M, 8T	106	(2) ISO 6H M10-1.5 x 35mm SHCS	n/a
* D05 SP SB 8P	107	(2) UNC 0.38-16 x 1.50 long SHCS	(2) 0.50-14 NPTF LSPP
* D05 SP SB 8S	107		(2) -8 SAE hex socket plug
* D05 SP SB 8B, 8M, 8T	107	(2) ISO 6H M10-1.5 x 40mm SHCS	n/a
* D05H(E) SP * 12P, 12S	108, 109	(2) UNC 0.38-16 x 1.75 long SHCS	n/a
* D05H(E) SP * 12B, 12M, 12T	108, 109	(2) ISO 6H M10-1.5 x 45mm SHCS	n/a
* D05J(E) SP S 16P, 16S	108, 109	(2) UNC 0.38-16 x 3.00 long SHCS	n/a
* D05J(E) SP S 16B, 16M, 16T	108, 109	(2) ISO 6H M10-1.5 x 75mm SHCS	n/a
* D05J(E) SP B 16P, 16S	108, 109	(2) UNC 0.38-16 x 3.25 long SHCS	n/a
* D05J(E) SP B 16B, 16M, 16T	108, 109	(2) ISO 6H M10-1.5 x 90mm SHCS	n/a
* D05 SP RV * 8P	110	(2) UNC 0.38-16 x 2.50 long SHCS	(2) 0.50-14 NPTF LSPP
* D05 SP RV * 8S	110		(2) -8 SAE hex socket plug
* D05 SP RV * 8B, 8M, 8T	110	(2) ISO 6H M10-1.5 x 65mm SHCS	n/a
* D05H SP RV * 12P	111		(2) 0.25-18 NPTF LSPP
			(2) 0.75-14 NPTF LSPP
* D05H SP RV * 12S	111	(2) UNC 0.38-16 x 3.00 long SHCS	(2) -4 SAE hex socket plug
			(2) -12 SAE hex socket plug
* D05H SP RV * 12B, 12M, 12T	111	(2) ISO 6H M10-1.5 x 75mm SHCS	n/a

Subplate Mounting Hardware

Part no.	Cat. pg.	Mounting Screws	Plugs
* D05J SP RV * 16P	111	(2) UNC 0.38-16 x 4.00 long SHCS	(2) 0.25-18 NPTF LSPP
* D05J SP RV * 16S	111		(2) 1.00-11.5 NPTF LSPP
* D05J SP RV * 16B, 16M, 16T	111		(2) -4 SAE hex socket plug (2) -16 SAE hex socket plug
		(2) ISO 6H M10-1.5 x 100mm SHCS	n/a
* D05 SP CR * 8P, 8S	110	(2) UNC 0.38-16 x 2.00 long SHCS	n/a
* D05 SP CR * 8B, 8M, 8T	110	(2) ISO 6H M10-1.5 x 50mm SHCS	n/a
* D05H SP CR * 12P	112	(2) UNC 0.38-16 x 4.50 long SHCS	(2) 0.25-18 NPTF LSPP
* D05H SP CR * 12S	112		(2) -4 SAE hex socket plug
* D05H SP CR * 12B, 12M, 12T	112		n/a
		(2) ISO 6H M10-1.5 x 120mm SHCS	n/a
* D05J SP CR * 16P	112	(2) UNC 0.38-16 x 4.50 long SHCS	(2) 0.25-18 NPTF LSPP
* D05J SP CR * 16S	112		(2) -4 SAE hex socket plug
* D05J SP CR * 16B, 16M, 16T	112		n/a
		(2) ISO 6H M10-1.5 x 120mm SHCS	n/a
* D07 SP S* 12P, 12S	113	(2) UNC 0.38-16 x 1.25 long SHCS	n/a
* D07 SP S* 12B, 12M, 12T	113	(2) ISO 6H M10-1.5 x 35mm SHCS	n/a
* D07 SP SO 16P, 16S	113	(2) UNC 0.38-16 x 3.00 long SHCS	n/a
* D07 SP SO 16B, 16M, 16T	113	(2) ISO 6H M10-1.5 x 75mm SHCS	n/a
* D07 SP B 12P, 12S	113	(2) UNC 0.38-16 x 1.50 long SHCS	n/a
* D07 SP B 12B, 12M, 12T	113	(2) ISO 6H M10-1.5 x 35mm SHCS	n/a
* D07 SP B 16P, 16S	113	(2) UNC 0.38-16 x 2.75 long SHCS	n/a
* D07 SP B 16B, 16M, 16T	113	(2) ISO 6H M10-1.5 x 70mm SHCS	n/a
* D07 SP RV C 12P	114	(2) UNC 0.38-16 x 2.75 long SHCS	(2) 0.75-14 NPTF LSPP
* D07 SP RV C 12S	114		(2) -12 SAE hex socket plug
* D07 SP RV C 12B, 12M, 12T	114		n/a
		(2) ISO 6H M10-1.5 x 70mm SHCS	n/a
* D07 SP RV S 12P	114	(2) UNC 0.38-16 x 2.50 long SHCS	(2) 0.75-14 NPTF LSPP
* D07 SP RV S 12S	114		(2) -12 SAE hex socket plug
* D07 SP RV S 12B, 12M, 12T	114		n/a
		(2) ISO 6H M10-1.5 x 65mm SHCS	n/a
* D07 SP RV * 16P	114	(2) UNC 0.38-16 x 4.00 long SHCS	(2) 1.00-11.5 NPTF LSPP
* D07 SP RV * 16S	114		(2) -16 SAE hex socket plug
* D07 SP RV * 16B, 16M, 16T	114		n/a
		(2) ISO 6H M10-1.5 x 100mm SHCS	n/a
* D08 SP S* 12P, 16P, 16S	115	(2) UNC 0.50-13 x 1.75 long SHCS	n/a
* D08 SP S* 16B, 16M, 16T	115	(2) ISO 6H M12-1.75 x 45mm SHCS	n/a
* D08 SP SO 20P, 20S	115	(2) UNC 0.50-13 x 3.00 long SHCS	n/a
* D08 SP SO 20B, 20M, 20T	115	(2) ISO 6H M12-1.75 x 75mm SHCS	n/a
* D08 SP B 12P, 16P, 16S	115	(2) UNC 0.50-13 x 1.50 long SHCS	n/a
* D08 SP B 16B, 16M, 16T	115	(2) ISO 6H M12-1.75 x 40mm SHCS	n/a
* D08 SP B 20P, 20S	115	(4) UNC 0.38-16 x 2.00 long SHCS	n/a
* D08 SP B 20B, 20M, 20T	115	(4) ISO 6H M10-1.5 x 50mm SHCS	n/a
* D08 SP RV * 16P	116	(2) UNC 0.38-16 x 3.00 long SHCS	(2) 1.00-11.5 NPTF LSPP
* D08 SP RV * 16S	116		(2) -16 SAE hex socket plug
* D08 SP RV * 16B, 16M, 16T	116		n/a
		(2) ISO 6H M10-1.5 x 75mm SHCS	n/a
* D08 SP RV * 20P	116	n/a	(2) 1.25-11.5 NPTF LSPP
* D08 SP RV * 20S	116		(2) -20 SAE hex socket plug
* D08 SP RV * 20B, 20M, 20T	116		n/a

Subplate Mounting Hardware

Part no.	Cat. pg.	Mounting Screws	Plugs
* D10 SP S O 20P	117	(4) UNC 0.50-13 x 3.50 long SHCS	n/a
* D10 SP S O 24P, 24S	117	(4) UNC 0.50-13 x 4.00 long SHCS	n/a
* D10 SP S O 32P, 32S	117	(4) UNC 0.50-13 x 4.50 long SHCS	n/a
* D10 SP B 20P	117	(4) UNC 0.50-13 x 2.00 long SHCS	n/a
* D10 SP B 24P, 24S	117	(4) UNC 0.50-13 x 2.00 long SHCS	n/a
* D10 SP B 32P, 32S	117	(4) UNC 0.50-13 x 2.50 long SHCS	n/a
* 2F06 SP S 6P, 8P, 8S	118	(2) UNC 0.38-16 x 1.25 long SHCS	n/a
* 2F07 SP S 8P, 8S	118	(2) UNC 0.38-16 x 1.25 long SHCS	n/a
* P06 SP S 08P, 08S, 12P, 12S	119	(4) UNC 0.38-16 x 2.00 long SHCS	n/a
* P08 SP S 12P, 12S, 16P, 16S	119	(4) UNC 0.38-16 x 2.00 long SHCS	n/a
* P10 SP S 20P, 20S, 24P, 24S	119	(4) UNC 0.38-16 x 3.00 long SHCS	n/a
* R06 SP S 08P, 08S, 12P, 12S	120	(4) UNC 0.38-16 x 2.00 long SHCS	n/a
* R08 SP S 12P, 12S, 16P, 16S	120	(4) UNC 0.38-16 x 2.50 long SHCS	n/a
* I08 SP S 12P, 12S, 16P, 16S	120	(4) UNC 0.38-16 x 2.50 long SHCS	n/a
* R10 SP S 20P, 20S, 24P, 24S	120	(4) UNC 0.38-16 x 4.00 long SHCS	n/a
* I10 SP S 20P, 20S, 24P, 24S	120	(4) UNC 0.38-16 x 4.00 long SHCS	n/a

A person is working on a hydraulic manifold assembly in a factory setting. The background shows industrial equipment, including a large metal structure with a label 'FH-680' and various pipes and hoses. The person is wearing a dark shirt and is focused on their work.

Hydraulic Valve Manifolds Better System Design Begins with a Manifold.

SERVO VALVE SUBPLATES

Servo Valve Cross Reference	Pages 125-127
S01 (0.480 port circle) Subplate	Page 128
S02, S83 (0.625 port circle) Subplate	Page 129
S03, S71 (0.780 port circle) Subplate	Page 129
S72 (0.938 port circle) Subplate	Page 129
S85 (0.850 port circle) Subplate	Page 129
S02 (0.625 port circle) Tapping Plate	Page 129
S71 (0.780 port circle) Tapping Plate	Page 129
S04 (0.875 port circle) Subplate	Page 130
S04 (0.875 port circle) Tapping Plate	Page 130
S06 (2.000 port circle) Subplate	Page 131
S06 (2.000 port circle) Tapping plate	Page 131
S73 (1.375 port circle) Subplate	Page 132
S74 (1.750 port circle) Subplate	Page 133
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Mounting Hardware	Page 140

Servo Valve Cross Reference

Daman pat- tern no.	ISO no.	Port Circle	HR Textron	Moog	Moog / Atchley	Moog / Pegasus	MTS	Parker	Parker/ Dyval	Rexroth	Vickers
S01	10372-01	0.480	27A ¹⁾⁵⁾	30 ¹⁾⁵⁾ 260 ¹⁾⁵⁾	--	--	--	SEMT ¹⁾	--	--	--
S02	10372-02	0.625	--	31 261 ¹⁾ 77-100 ⁶⁾ 771 774	206 ¹⁾⁶⁾ 208A ³⁾ 209 ¹⁾	20 ²⁾ 105H ²⁾ 122A ²⁾ 125	--	SE05	--	--	--
S03	10372-03	0.780	--	77-200	207- optional ¹⁾⁷⁾	132A ²⁾¹²⁾	--	--	--	--	SM4-12 SX4-12
S04	10372-04	0.875	27E ¹⁾	62 730 730-HP8 760 ⁴⁾ 760-HP8 761HR ⁴⁾ D765 ³⁾ G761	215A ³⁾ 320	142M ¹⁾ 142MP ²⁾⁴⁾ 162M ²⁾ 162MP ²⁾⁴⁾	252.2X 252.4X	BD15 PH76 SE20 ³⁾ SE2E ³⁾	--	4WS*2E*10A-4X ³⁾⁹⁾	SM4-20 ⁴⁾ SX4-20 ⁴⁾
S06	10372-06	2.000	--	72 ³⁾ 79-100 ⁴⁾⁸⁾ D791 ⁴⁾	261 ¹⁾	1282A 1282AD 1282ADL 1282B	252.3X	SE60 ³⁾	--	4WS*2E*16A-2X ³⁾¹⁰⁾	--
S71	--	0.780	27C	15 32 34 262 ¹⁾ 264 ¹⁾ 755 772 77-200- optional	207 ¹⁾¹¹⁾ 211A ³⁾ 214 ¹⁾³⁾	--	--	SE10	--	--	--
S72	--	0.938	--	773 77-500	218 ¹⁾	142A ²⁾¹²⁾ 162A ²⁾¹²⁾ 162R ²⁾¹²⁾ 212 ²⁾¹²⁾ 235 ²⁾¹²⁾	--	SE15	--	--	SM4-15 SX4-15
S73	--	1.375	--	743 ³⁾	225A ³⁾ 225B ³⁾	--	--	SE2N	--	--	--
S74	--	1.750	--	--	--	1330	--	--	--	--	--

NOTES:

- 1) This valve does not have a locating pin, therefore the pattern does not require a locating pin hole.
- 2) The A & B (C1 & C2) ports are reversed on these valves compared to the ISO standard or the majority of other manufacturers valves.
- 3) These valves have an optional pilot port conforming to ISO standards or the majority of other manufacturers valves.
- 4) These valves have an optional pilot port which does not conform to ISO standards.
- 5) These valves use mounting threads which do not conform to the ISO standard of M4.
- 6) The S02 mounting pattern has #10-32 or M5 mounting threads. If using the optional 1/4-20 or M6 bolts use the S83 valve pattern.
- 7) The S03 mounting pattern has #1/4-20 or M6 mounting threads. If using the optional #10-32 or M5 bolts use the S71 valve pattern.
- 8) The ports on this valve are 90 degrees out of phase with the ISO standard and all other valves using this pattern.
- 9) Manufacturer's catalog states that this valve is also in conformance with CETOP RP115H type 4.
- 10) Manufacturer's catalog states that this valve is also in conformance with CETOP RP115H type 5.
- 11) The S71 mounting pattern has #10-32 or M5 mounting threads. If using the optional 1/4-20 or M6 bolts use the S03 valve pattern.
- 12) Manufacturer calls for 1/4-28 valve mounting threads. Daman's S03 & S72 standard products have 1/4-20 threads.

Servo Valve Cross Reference

Daman pattern no.	ISO no.	Port Circle	Continental	HR Textron	Moog	Moog / Atchley	Moog / Pegasus	Parker	Parker / Dyval	Rexroth	Vickers
S75 ¹⁾	--	2.750	--	--	--	3100	--	--	--	--	--
S76	--	--	--	--	62-300	241	--	--	--	--	SM4-30
S77	--	1.750	--	27G ²⁾	78	240	180L ³⁾⁷⁾ 180R ³⁾⁷⁾	BD30	--	--	SM4-40 ⁴⁾
S78	--	--	--	--	79-200 79-200HR D792	--	1800	--	--	--	--
S79 ¹⁾	--	--	--	--	D643- optional ⁵⁾ D644- optional ⁵⁾	--	--	--	--	--	--
S81 ¹⁾	--	--	--	--	--	231 242	--	--	--	--	--
S82	--	--	--	--	--	--	--	--	--	4DS*1E02-1X	--
S83	--	0.625	--	--	77-100- optional ⁶⁾	206- optional ²⁾⁶⁾	--	--	--	--	SM4-10 SX4-10
S84 ¹⁾	--	0.740	--	--	--	202PN	--	--	--	--	--
S85	--	0.850	SV850M	--	--	--	--	--	DY01 DY1S DY05 DY10 10PS DY12	--	--
S86 ¹⁾	--	1.000	--	--	265 ²⁾ 35	--	--	--	--	--	--
S87	--	1.000	SV1000M	--	--	--	--	--	DY15 DY25	--	--
S88 ¹⁾	--	1.800	SV1800M	--	--	--	--	--	DY45 45PS	--	--
S89 ¹⁾	--	--	--	--	--	--	--	--	PC-2	--	--
S90	--	1.000	--	--	--	--	--	--	DY2S 2-SP	--	--
S91 ¹⁾	--	--	--	--	--	--	--	--	5P 10P	--	--
S92	--	--	--	--	--	--	--	--	DY3H DY6H	--	--

NOTES:

- 1) These patterns are identified for reference purposes. Standard subplates are not available. See pages 2-3 for information requesting a custom subplate.
- 2) This valve does not have a locating pin, therefore the pattern does not require a locating pin hole.
- 3) The A & B (C1 & C2) ports are reversed on these valves compared to the ISO standard or the majority of other manufacturers valves.
- 4) These valves have an optional pilot port conforming to ISO standards or the majority of other manufacturers valves.
- 5) The S79 mounting pattern has 7/16-14 mounting threads. If using the optional M12 or 1/2-13 bolts use the D08 valve pattern.
- 6) The S83 mounting pattern has 1/4-20 or M6 mounting threads. If using the optional #10-32 or M5 bolts use the S02 valve pattern.
- 7) Manufacturer calls for 5/16-24 valve mounting threads. Daman's S77 standard products have 5/16-18 threads.

Servo Valve Cross Reference

Daman pat- tern no.	ISO no.	Port Circle	Contin- ental	Moog	Moog / Atchley	Moog / Pegasus	Parker	Parker/ Dyval	Rexroth	Vickers
S93 ¹⁾	--	0.850	--	--	--	--	--	10-1100	--	--
S94 ¹⁾	--	--	--	744	290	--	--	--	--	--
S95 ¹⁾	--	2.000	--	--	--	--	--	DY90	--	--
D03	4401-03- 03	--	--	D633 ⁵⁾ D635 ⁵⁾ D636 ⁵⁾	--	40	--	--	4WS*2EM6-1X ²⁾	--
D05HE	4401-05- 05	--	--	D634 ⁶⁾ D661 ⁷⁾ D681 ⁷⁾ D691 ⁷⁾	--	--	--	--	--	--
D05-S1	4401-05- 05	--	--	631 ⁴⁾ 631-500 ⁴⁾ 641 ⁴⁾ 641-100 ⁴⁾ 651 ⁴⁾	--	--	--	--	--	--
D05-S2	4401-05- 05	--	--	G631 ⁴⁾	--	--	--	--	--	--
D05-S3	4401-05- 05	--	--	--	--	--	SE31 ⁴⁾	--	--	--
D05-S4	4401-05- 05	--	--	--	--	--	--	--	3DS*2E*10-2X ⁴⁾ 4WS*2E*10-4X ⁴⁾	--
D07	4401-07- 06	--	--	D642 ⁸⁾ 15) D652 ⁸⁾ D662 ⁸⁾ D682 ⁸⁾	--	--	--	--	4WS*2E*16-2X ³⁾ 4WSE3EE16-1X ³⁾	--
D08	4401-08- 07	--	--	D643 ⁹⁾ D644 ⁹⁾ D653 ¹⁰⁾ D654 ¹⁰⁾ D663 ¹¹⁾ D664 ¹²⁾ D683 ¹¹⁾ D684 ¹²⁾	--	--	--	--	4WSE3EE25-2X ³⁾	--
D10	4401-10- 08	--	--	D645 ¹³⁾ D665 ¹⁴⁾ D685 ¹⁴⁾	--	--	--	--	4WSE3EE32-4X ³⁾	--

NOTES:

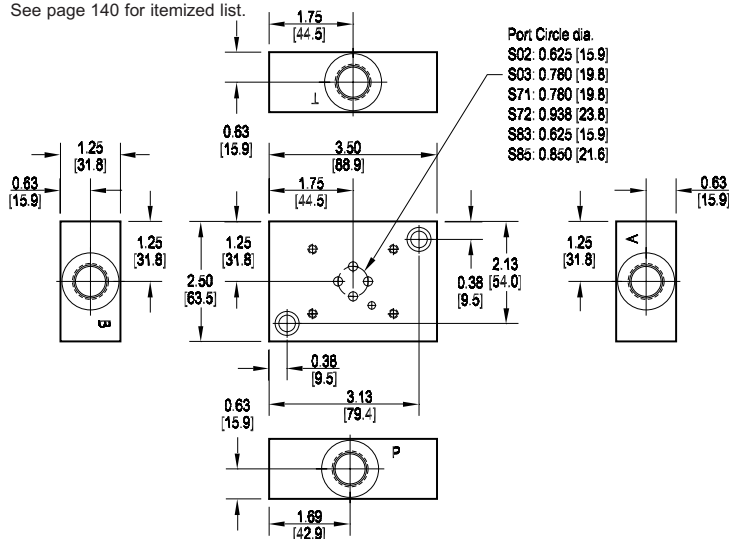
- 1) These patterns are identified for reference purposes. Standard subplates are not available. See pages 2-3 for information requesting a custom sub-plate.
- 2) This valve does not have a locating pin, therefore the pattern does not require a locating pin hole.
- 3) These valves have an optional pilot port conforming to ISO standards or the majority of other manufacturers valves.
- 4) These valves have an optional pilot port which does not conform to ISO standards.
- 5) Pattern conforms to ISO 4401-03-03-0-94 without X port; Y port is optional. Ports are 7.5mm dia for full flow. Mounting threads are M5.
- 6) Pattern conforms to ISO 4401-05-05-0-94 without X port; Y port is optional. Mounting threads are M6.
- 7) Pattern conforms to ISO 4401-05-05-0-94 without X port; Y port is optional. Ports are 11.5mm dia for full flow. Mounting threads are M6.
- 8) Pattern conforms to ISO 4401-07-06-0-94 except ports are 20mm dia for full flow. Mounting threads are M10 and M6.
- 9) Pattern conforms to ISO 4401-08-07-0-94. Mounting threads are M12. If using the optional 7/16-14 bolts use the S79 valve pattern.
- 10) Pattern conforms to ISO 4401-08-07-0-94. Mounting threads are M12.
- 11) Pattern conforms to ISO 4401-08-07-0-94 except ports are 28mm dia for full flow. Mounting threads are M12.
- 12) Pattern conforms to ISO 4401-08-07-0-94 except ports are 32mm dia for full flow. Mounting threads are M12.
- 13) Pattern conforms to ISO 4401-10-08-0-94. Mounting threads are M20.
- 14) Pattern conforms to ISO 4401-10-08-0-94 except ports are 50mm dia for full flow. Mounting threads are M20.

Daman S02, S03, S71, S72, S83, S85 Servo Subplate; S02, S71 Pilot Port Tapping Plate

0.625, 0.780, 0.850, 0.938 Port Circle

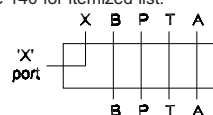
Side Ported Subplate

Valve mtg **S02, S71**: UNF #10-32 x 0.63 DP or Metric M5-0.8mm ISO 6H x [16] DP
 Valve mtg **S03**: UNF 0.25-28 x 0.75 DP or Metric M6-1.0mm ISO 6H x [19] DP
 Valve mtg **S72, S83, S85**: UNC 0.25-20 x 0.75 DP or Metric M6-1.0mm ISO 6H x [19] DP
 Subplate hardware kit is supplied.
 See page 140 for itemized list.

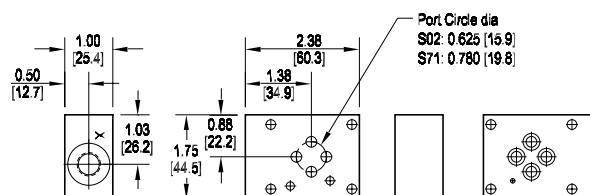


Pilot Port Tapping Plate (S02, S71 Patterns only)

Subplate interface seal kit is supplied.
 See page 140 for itemized list.



Use this tapping plate when an external pilot port is required. This tapping plate stacks between the valve and subplate. Valve mounting bolts of sufficient length to pass through the valve and this tapping plate are supplied by the user.



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Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location / Circuit	Port Threads
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	

Servo Pattern	
See page 125 and Tech Info	
S02	ISO 10372-02-02 Daman std. S02
S03	ISO 10372-03-03 Daman std. S03
S71	Daman std. S71
S72	Daman std. S72
S83	Daman std. S83
S85	Daman std. S85

Product Type	
SP	Subplate
TP	Tapping Plate S02 or S71 only

Port Loc. / Circuit	
S	Side ported (Subplate only)
X	X Port (Tapping Plate only)

Port Threads	
Subplate Port Sizes Only	
8S	-8 SAE ISO 11926; SAE 1926
8M	M18 x 1.5 ISO 6149
Tapping Plate Port Sizes Only	
4S	-4 SAE ISO 11926; SAE 1926
4M	M10 x 1.0 ISO 6149

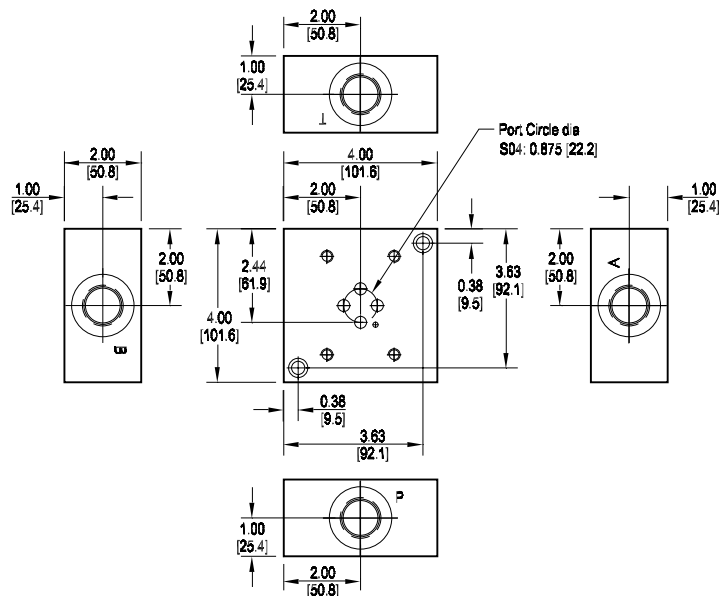
Daman S04 Servo Subplate, Pilot Port Tapping Plate 0.875 Port Circle

Side Ported Subplate

Valve mtg: UNC 0.31-18 UNC x 0.88 DP or
Metric M8-1.25mm ISO 6H x [22.2] DP

Subplate hardware kit is supplied.

See page 140 for itemized list.

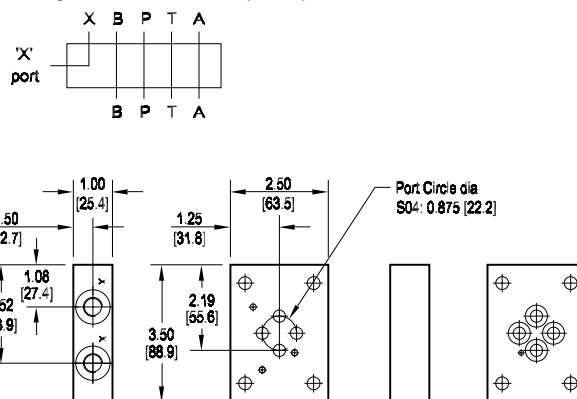


Pilot Port Tapping Plate

Subplate interface seal kit is supplied.*

See page 140 for itemized list.

* Plug not included on metric ported parts.



Use this tapping plate when an external pilot port is required. Two ports are provided to facilitate the various valves available. This tapping plate stacks between the valve and subplate. Valve mounting bolts of sufficient length to pass through the valve and this tapping plate are supplied by the user.

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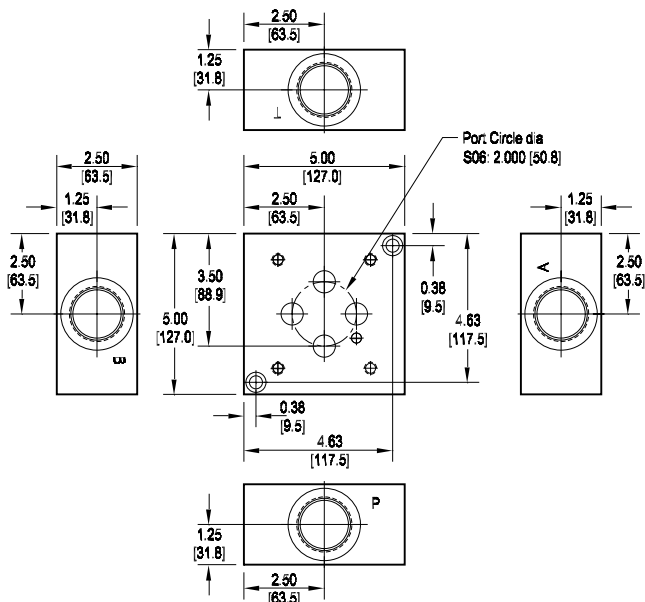
Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location / Circuit	Port Threads
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Servo Pattern See page 125 and Tech Info S04 ISO 10372-04-04 Daman std. S04	Product Type SP Subplate TP Tapping Plate	Port Loc. / Circuit S Side ported (Subplate only) X X Port (Tapping Plate only)	Port Threads Subplate Port Sizes Only 12S -12 SAE ISO 11926; SAE 1926 12M M27 x 2.0 ISO 6149 Tapping Plate Port Sizes Only 4S -4 SAE ISO 11926; SAE 1926 4M M10 x 1.0 ISO 6149

Daman S06 Servo Subplate, Pilot Port Tapping Plate 2.000 Port Circle

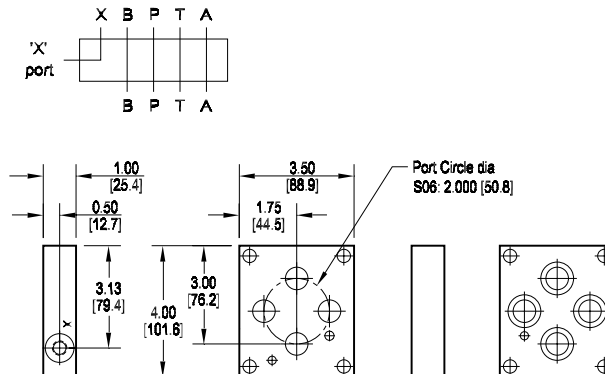
Side Ported Subplate

Valve mtg: UNC 0.38-16 UNC x 1.00 DP or
Metric M10-1.5mm ISO 6H x [25.4] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



Pilot Port Tapping Plate

Subplate interface seal kit is supplied.*
See page 140 for itemized list.
* Plug not included on metric ported parts.



Use this tapping plate when an external pilot port is required.
This tapping plate stacks between the valve and subplate.
Valve mounting bolts of sufficient length to pass through the valve and this tapping plate are supplied by the user.

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Ordering Information

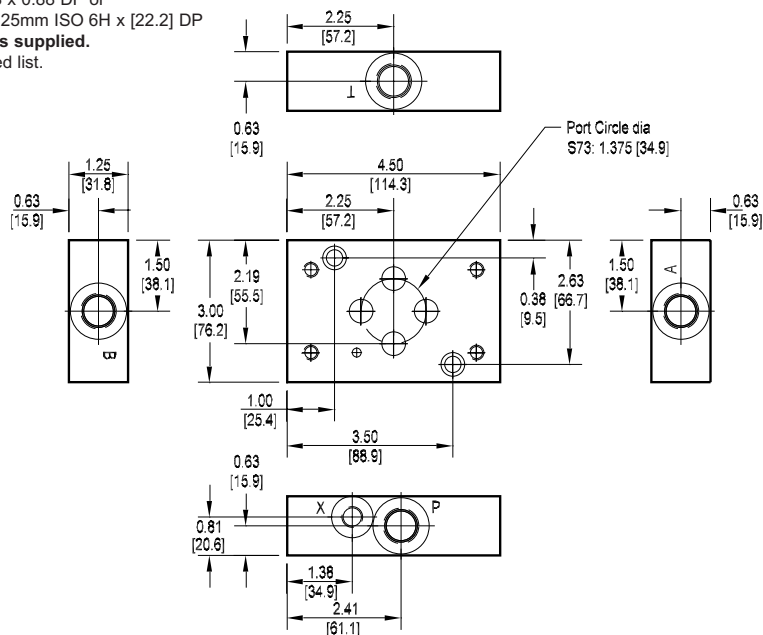
Material	Servo Valve Pattern	Product Type	Port Location / Circuit	Port Threads
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Servo Pattern See page 125 and Tech Info S06 ISO 10372-06-05 Daman std. S06	Product Type SP Subplate TP Tapping Plate	Port Loc. / Circuit S Side ported (Subplate only) X X Port (Tapping Plate only)	Port Threads Subplate Port Sizes Only 20S -20 SAE ISO 11926; SAE 1926 20M M42 x 2.0 ISO 6149 Tapping Plate Port Sizes Only 4S -4 SAE ISO 11926; SAE 1926 4M M10 x 1.0 ISO 6149

Daman S73 Servo Subplate

1.375 Port Circle

Side Ported Subplate

Valve mtg: UNC 0.31-18 x 0.88 DP or
Metric M8-1.25mm ISO 6H x [22.2] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



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Ordering Information

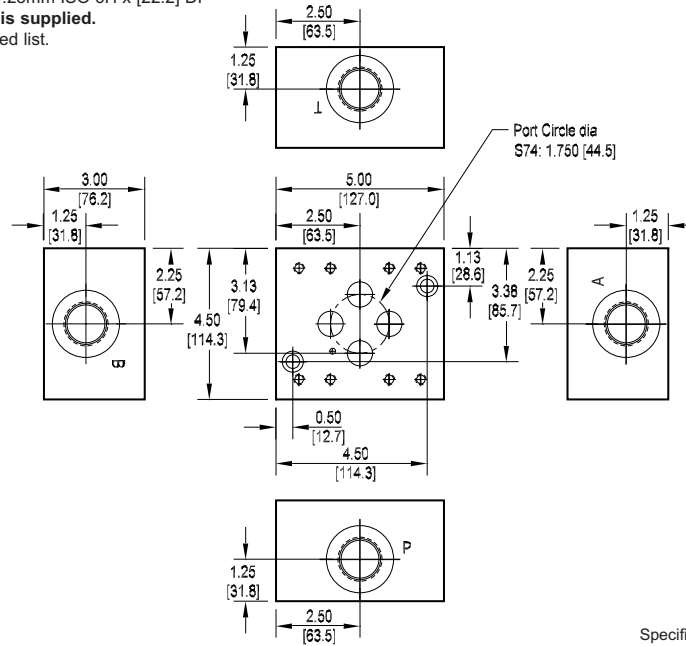
Material	Servo Valve Pattern	Product Type	Port Location	Port Threads																		
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.			<table><tr><th colspan="2">Product Type</th></tr><tr><td>SP</td><td>Subplate</td></tr></table>	Product Type		SP	Subplate		<table><tr><th colspan="2">Port Threads</th></tr><tr><td>8S</td><td>-8 SAE ISO 11926; SAE 1926 (X port is -4 SAE)</td></tr><tr><td>8M</td><td>M18 x 1.5 ISO 6149 (X port is M10 x 1.0)</td></tr></table>	Port Threads		8S	-8 SAE ISO 11926; SAE 1926 (X port is -4 SAE)	8M	M18 x 1.5 ISO 6149 (X port is M10 x 1.0)
Material																						
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																					
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																					
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.																						
Product Type																						
SP	Subplate																					
Port Threads																						
8S	-8 SAE ISO 11926; SAE 1926 (X port is -4 SAE)																					
8M	M18 x 1.5 ISO 6149 (X port is M10 x 1.0)																					
	<table><tr><th colspan="2">Servo Pattern</th></tr><tr><td>S73</td><td>Daman S73 See page 125 and Tech Info</td></tr></table>	Servo Pattern		S73	Daman S73 See page 125 and Tech Info		<table><tr><th colspan="2">Port Location</th></tr><tr><td>S</td><td>Side ported</td></tr></table>	Port Location		S	Side ported											
Servo Pattern																						
S73	Daman S73 See page 125 and Tech Info																					
Port Location																						
S	Side ported																					

Daman S74 Servo Subplate

1.750 Port Circle

Side Ported Subplate

Valve mtg: UNF 0.31-24 x 0.88 DP or
Metric M8-1.25mm ISO 6H x [22.2] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



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Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location	Port Threads																										
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Servo Pattern</th></tr><tr><td>S74</td><td>Daman S74 See page 125 and Tech Info</td></tr></table>	Servo Pattern		S74	Daman S74 See page 125 and Tech Info	<table><tr><th colspan="2">Product Type</th></tr><tr><td>SP</td><td>Subplate</td></tr></table>	Product Type		SP	Subplate	<table><tr><th colspan="2">Port Location</th></tr><tr><td>S</td><td>Side ported</td></tr></table>	Port Location		S	Side ported	<table><tr><th colspan="2">Port Threads</th></tr><tr><td>16S</td><td>-16 SAE ISO 11926; SAE 1926</td></tr><tr><td>16M</td><td>M33 x 2.0 ISO 6149</td></tr></table>	Port Threads		16S	-16 SAE ISO 11926; SAE 1926	16M	M33 x 2.0 ISO 6149
Material																														
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																													
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																													
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.																														
Servo Pattern																														
S74	Daman S74 See page 125 and Tech Info																													
Product Type																														
SP	Subplate																													
Port Location																														
S	Side ported																													
Port Threads																														
16S	-16 SAE ISO 11926; SAE 1926																													
16M	M33 x 2.0 ISO 6149																													

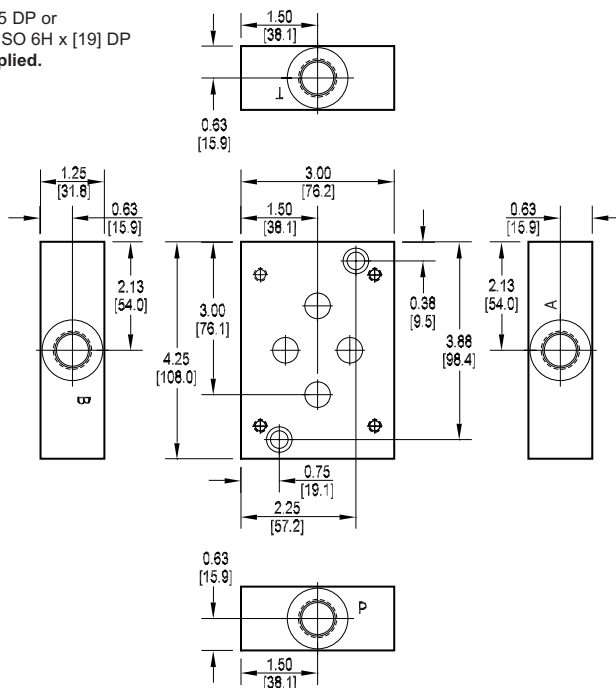
Daman S76 Servo Subplate

Side Ported Subplate

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19] DP

Subplate hardware kit is supplied.

See page 140 for itemized list.



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Ordering Information

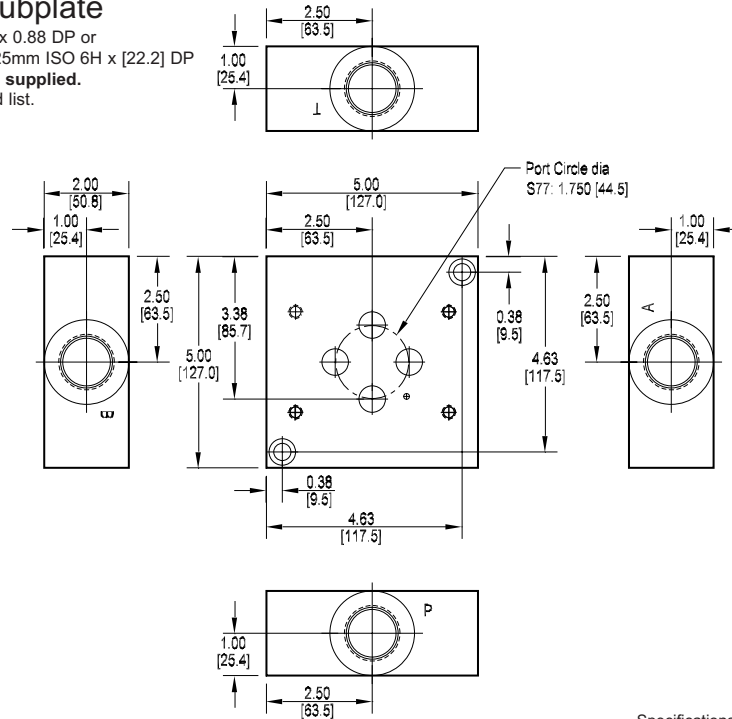
Material		Servo Valve Pattern	Product Type	Port Location	Port Threads																
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Material																					
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Product Type																					
SP	Subplate																				
Port Threads																					
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8M	M18 x 1.5 ISO 6149																				
		<table><tr><th colspan="2">Servo Pattern</th></tr><tr><td>S76</td><td>Daman std. S76 See page 126 and Tech Info</td></tr></table>	Servo Pattern		S76	Daman std. S76 See page 126 and Tech Info		<table><tr><th colspan="2">Port Location</th></tr><tr><td>S</td><td>Side ported</td></tr></table>	Port Location		S	Side ported									
Servo Pattern																					
S76	Daman std. S76 See page 126 and Tech Info																				
Port Location																					
S	Side ported																				

Daman S77 Servo Subplate

1.750 Port Circle

Side Ported Subplate

Valve mtg: UNC 0.31-18 x 0.88 DP or
Metric M8-1.25mm ISO 6H x [22.2] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



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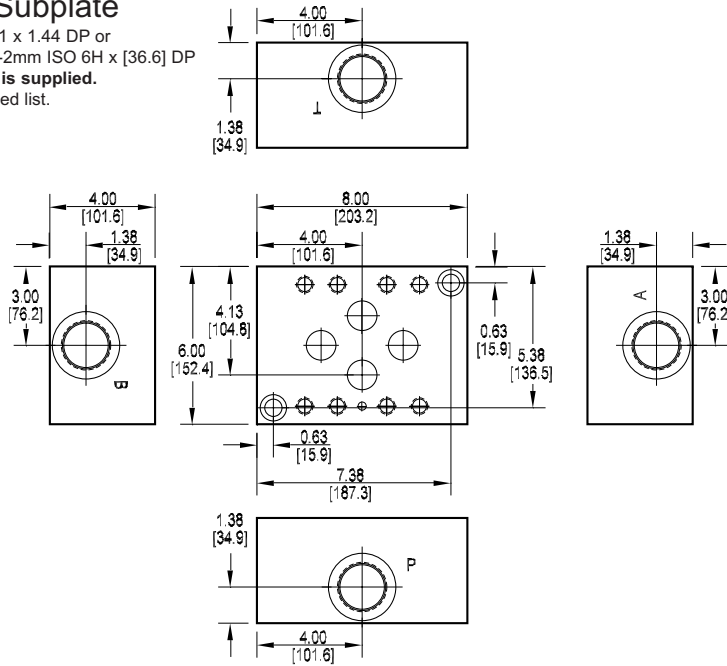
Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location	Port Threads																		
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.			<table><tr><th colspan="2">Product Type</th></tr><tr><td>SP</td><td>Subplate</td></tr></table>	Product Type		SP	Subplate		<table><tr><th colspan="2">Port Threads</th></tr><tr><td>16S</td><td>-16 SAE ISO 11926; SAE 1926</td></tr><tr><td>16M</td><td>M33 x 2.0 ISO 6149</td></tr></table>	Port Threads		16S	-16 SAE ISO 11926; SAE 1926	16M	M33 x 2.0 ISO 6149
Material																						
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																					
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SP	Subplate																					
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	<table><tr><th colspan="2">Servo Pattern</th></tr><tr><td>S77</td><td>Daman S77 See page 126 and Tech Info</td></tr></table>	Servo Pattern		S77	Daman S77 See page 126 and Tech Info		<table><tr><th colspan="2">Port Location</th></tr><tr><td>S</td><td>Side ported</td></tr></table>	Port Location		S	Side ported											
Servo Pattern																						
S77	Daman S77 See page 126 and Tech Info																					
Port Location																						
S	Side ported																					

Daman S78 Servo Subplate

Side Ported Subplate

Valve mtg: UNC 0.63-11 x 1.44 DP or
Metric M16-2mm ISO 6H x [36.6] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



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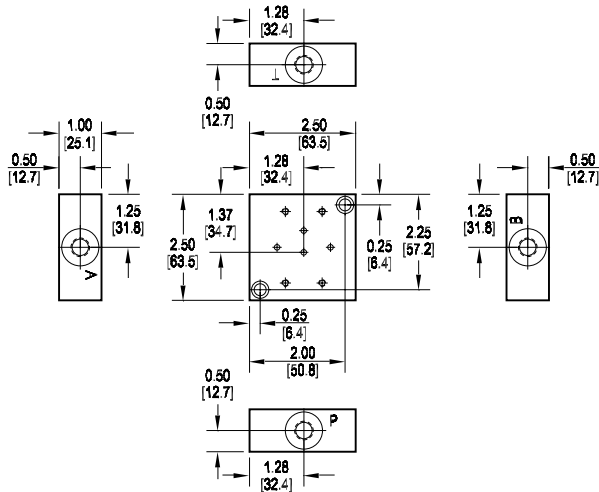
Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location	Port Threads																										
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Servo Pattern</th></tr><tr><td>S78</td><td>Daman S78 See page 126 and Tech Info</td></tr></table>	Servo Pattern		S78	Daman S78 See page 126 and Tech Info	<table><tr><th colspan="2">Product Type</th></tr><tr><td>SP</td><td>Subplate</td></tr></table>	Product Type		SP	Subplate	<table><tr><th colspan="2">Port Location</th></tr><tr><td>S</td><td>Side ported</td></tr></table>	Port Location		S	Side ported	<table><tr><th colspan="2">Port Threads</th></tr><tr><td>24S</td><td>-24 SAE ISO 11926; SAE 1926</td></tr><tr><td>24M</td><td>M48 x 2.0 ISO 6149</td></tr></table>	Port Threads		24S	-24 SAE ISO 11926; SAE 1926	24M	M48 x 2.0 ISO 6149
Material																														
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																													
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																													
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.																														
Servo Pattern																														
S78	Daman S78 See page 126 and Tech Info																													
Product Type																														
SP	Subplate																													
Port Location																														
S	Side ported																													
Port Threads																														
24S	-24 SAE ISO 11926; SAE 1926																													
24M	M48 x 2.0 ISO 6149																													

Daman S82, S87 Servo Subplates

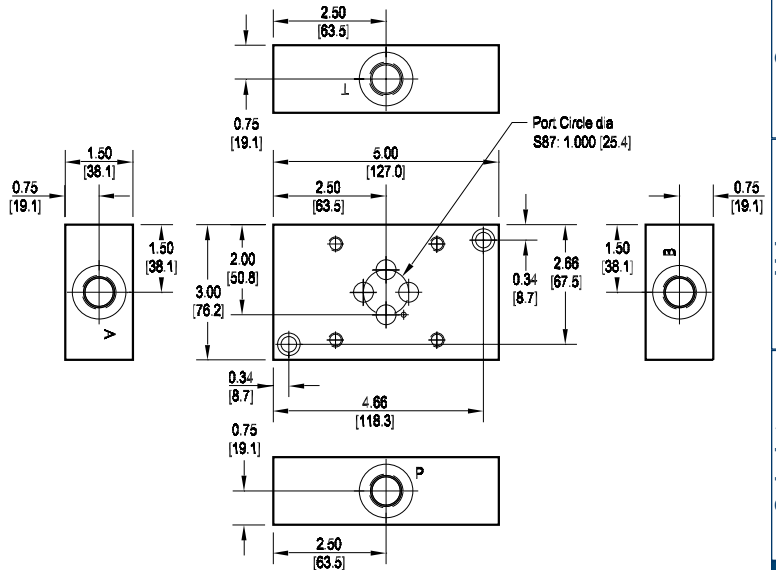
S82 Side Ported Subplate

Valve mtg: Metric M4-0.7mm ISO 6H x 0.50 [12.7] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



S87 Side Ported Subplate

Valve mtg: UNC 0.31-18 x 0.88 DP or
Metric M8-1.25mm ISO 6H x [22] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



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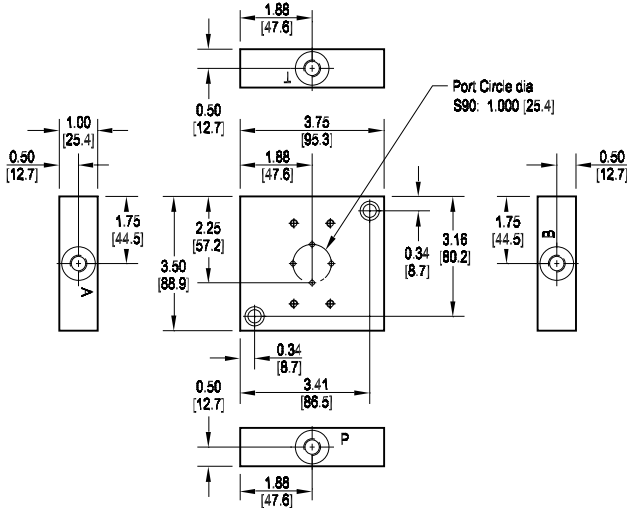
Ordering Information

Material		Servo Valve Pattern		Product Type		Port Location		Port Threads																																					
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Servo Pattern</th></tr><tr><td>S82</td><td>Daman S82 See page 126 and Tech Info</td></tr><tr><td>S87</td><td>Daman S87 See page 126 and Tech Info</td></tr></table>		Servo Pattern		S82	Daman S82 See page 126 and Tech Info	S87	Daman S87 See page 126 and Tech Info	<table><tr><th colspan="2">Product Type</th></tr><tr><td>SP</td><td>Subplate</td></tr></table>		Product Type		SP	Subplate	<table><tr><th colspan="2">Port Location</th></tr><tr><td>S</td><td>Side ported</td></tr></table>		Port Location		S	Side ported	<table><tr><th colspan="2">Port Threads</th></tr><tr><td colspan="2">S82 Subplate only</td></tr><tr><td>4S</td><td>-4 SAE ISO 11926; SAE 1926</td></tr><tr><td>4M</td><td>M10 x 1.0 ISO 6149</td></tr><tr><td colspan="2">S87 Subplate only</td></tr><tr><td>8S</td><td>-8 SAE ISO 11926; SAE 1926</td></tr><tr><td>8M</td><td>M18 x 1.5 ISO 6149</td></tr></table>		Port Threads		S82 Subplate only		4S	-4 SAE ISO 11926; SAE 1926	4M	M10 x 1.0 ISO 6149	S87 Subplate only		8S	-8 SAE ISO 11926; SAE 1926	8M	M18 x 1.5 ISO 6149
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8M	M18 x 1.5 ISO 6149																																												

Daman S90, S92 Servo Subplate

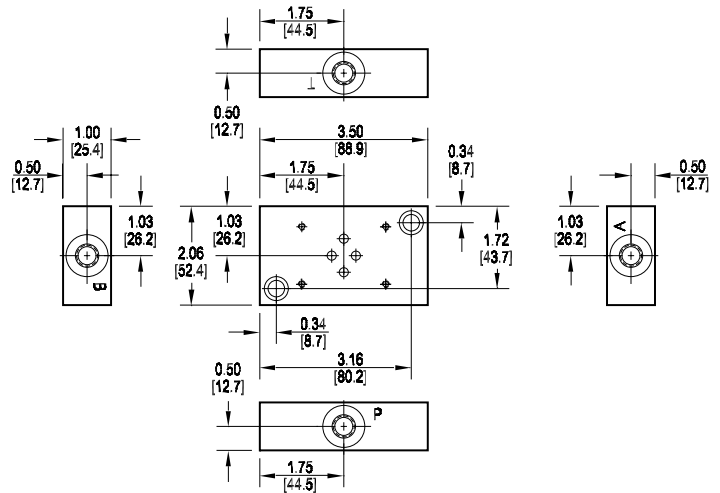
S90 Side Ported Subplate

Valve mtg: UNC #10-24 x 0.63 DP or
Metric M5-0.8mm ISO 6H x [16] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



S92 Side Ported Subplate

Valve mtg: UNC #8-32 x 0.63 DP or
Metric M4-0.7mm ISO 6H x [16] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



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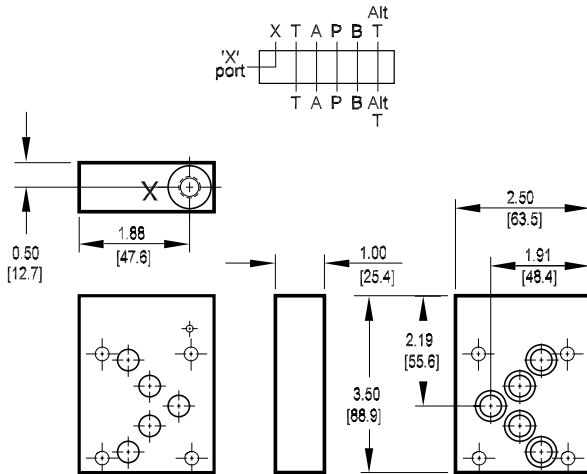
Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location	Port Threads																												
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Servo Pattern</th></tr><tr><td>S90</td><td>Daman S90 See page 126 and Tech Info</td></tr><tr><td>S92</td><td>Daman S92 See page 126 and Tech Info</td></tr></table>	Servo Pattern		S90	Daman S90 See page 126 and Tech Info	S92	Daman S92 See page 126 and Tech Info	<table><tr><th colspan="2">Product Type</th></tr><tr><td>SP</td><td>Subplate</td></tr></table>	Product Type		SP	Subplate	<table><tr><th colspan="2">Port Location</th></tr><tr><td>S</td><td>Side ported</td></tr></table>	Port Location		S	Side ported	<table><tr><th colspan="2">Port Threads</th></tr><tr><td>4S</td><td>-4 SAE ISO 11926; SAE 1926</td></tr><tr><td>4M</td><td>M10 x 1.0 ISO 6149</td></tr></table>	Port Threads		4S	-4 SAE ISO 11926; SAE 1926	4M	M10 x 1.0 ISO 6149
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S90	Daman S90 See page 126 and Tech Info																															
S92	Daman S92 See page 126 and Tech Info																															
Product Type																																
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Port Location																																
S	Side ported																															
Port Threads																																
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4M	M10 x 1.0 ISO 6149																															

D05 Servo Valve Tapping Plates

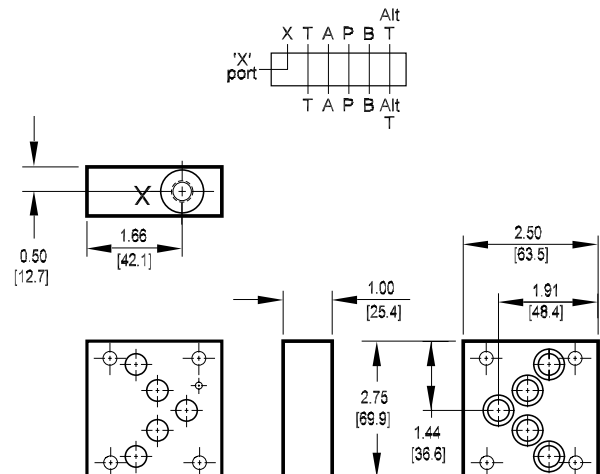
D05-S1, D05-S2, D05-S3 Pilot Port Tapping Plate

Subplate interface seal kit is supplied.
See page 140 for itemized list.



D05-S4 Pilot Port Tapping Plate

Subplate interface seal kit is supplied.
See page 140 for itemized list.



Note: These tapping plates are designed to be used with standard D05 manifolds or subplates. They provide an external pilot port for the servo valves referenced. If the servo valve uses an internal pilot, these tapping plates are not needed. The servo valve may be mounted directly to our D05 manifold or subplate.

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Ordering Information

Material		Servo Valve Pattern		Product Type		Port Location		Port Threads																													
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D05</td><td>ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information</td></tr></table>		Valve Pattern		D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>TP</td><td>Tapping Plate</td></tr></table>		Product Type		TP	Tapping Plate	<table><tr><th colspan="2">Circuit</th></tr><tr><td>XA</td><td>X port - For D05-S1, D05-S2, or D05-S3 Patterns</td></tr><tr><td>XB</td><td>X port - For D05-S4 Pattern</td></tr></table>		Circuit		XA	X port - For D05-S1, D05-S2, or D05-S3 Patterns	XB	X port - For D05-S4 Pattern	<table><tr><th colspan="2">Port Threads</th></tr><tr><td>4S</td><td>-4 SAE ISO 11926; SAE 1926</td></tr><tr><td>4M</td><td>M10 x 1.0 ISO 6149</td></tr></table>		Port Threads		4S	-4 SAE ISO 11926; SAE 1926	4M	M10 x 1.0 ISO 6149
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Port Threads																																					
4S	-4 SAE ISO 11926; SAE 1926																																				
4M	M10 x 1.0 ISO 6149																																				

Servo Valve Product Mounting Hardware

Part no.	Cat. pg.	Mounting Screws	Viton O-rings	Locating Pins	Plugs
* S01 SP S 4S * S01 SP S 4M	128	(2) UNC 0.25-20 x 0.88 long SHCS (2) ISO 6H M6-1.0 x 22mm SHCS	n/a	n/a	n/a
* S02 SP S 8S * S03 SP S 8S * S71 SP S 8S * S72 SP S 8S * S83 SP S 8S * S85 SP S 8S	129	(2) UNC 0.31-18 x 1.25 long SHCS	n/a	n/a	n/a
* S02 SP S 8M * S03 SP S 8M * S71 SP S 8M * S72 SP S 8M * S83 SP S 8M * S85 SP S 8M	129	(2) ISO 6H M8-1.25 x 35mm SHCS	n/a	n/a	n/a
* S02 TP X 4* * S71 TP X 4*	129	n/a	(4) -010 (4) -011	(1) 0.09 dia x 0.25 long	n/a
* S04 SP S 12S * S04 SP S 12M	130	(2) UNC 0.31-18 x 2.00 long SHCS (2) ISO 6H M8-1.25 x 50mm SHCS	n/a	n/a	n/a
* S04 TP X 4S	130	n/a	(4) -013	(1) 0.12 dia x 0.25 long	(1) -4 SAE hex socket plug
* S04 TP X 4M	130	n/a	(4) -013	(1) 0.12 dia x 0.25 long	n/a
* S06 SP S 20S * S06 SP S 20M	131	(2) UNC 0.38-16 x 2.50 long SHCS (2) ISO 6H M10-1.5 x 65mm SHCS	n/a	n/a	n/a
* S06 TP X 4*	131	n/a	(4) -020	(1) 0.25 dia x 0.38 long	n/a
* S73 SP S 8S * S73 SP S 8M	132	(2) UNC 0.31-18 x 1.25 long SHCS (2) ISO 6H M8-1.25 x 35mm SHCS	n/a	n/a	n/a
* S74 SP S 16S * S74 SP S 16M	133	(2) UNC 0.38-16 x 3.00 long SHCS (2) ISO 6H M10-1.5 x 75mm SHCS	n/a	n/a	n/a
* S76 SP S 8S * S76 SP S 8M	134	(2) UNC 0.31-18 x 1.25 long SHCS (2) ISO 6H M8-1.25 x 35mm SHCS	n/a	n/a	n/a
* S77 SP S 16S * S77 SP S 16M	135	(2) UNC 0.38-16 x 2.00 long SHCS (2) ISO 6H M10-1.5 x 50mm SHCS	n/a	n/a	n/a
* S78 SP S 24S * S78 SP S 24M	136	(2) UNC 0.62-11 x 4.00 long SHCS (2) ISO 6H M16-2.0 x 100mm SHCS	n/a	n/a	n/a
* S82 SP S 4S * S82 SP S 4M	137	(2) UNC 0.25-20 x 1.00 long SHCS (2) ISO 6H M6-1.0 x 25mm SHCS	n/a	n/a	n/a
* S87 SP S 8S * S87 SP S 8M	137	(2) UNC 0.31-18 x 1.50 long SHCS (2) ISO 6H M8-1.25 x 40mm SHCS	n/a	n/a	n/a
* S90 SP S 4S * S90 SP S 4M	138	(2) UNC 0.31-18 x 1.25 long SHCS (2) ISO 6H M8-1.25 x 35mm SHCS	n/a	n/a	n/a
* S92 SP S 4S * S92 SP S 4M	138	(2) UNC 0.31-18 x 1.25 long SHCS (2) ISO 6H M8-1.25 x 35mm SHCS	n/a	n/a	n/a
* D05 TP XA 4* * D05 TP XB 4*	139	n/a	(5) -014	n/a	n/a

Hydraulic Valve Manifolds Better System Design Begins with a Manifold.

TAPPING PLATES	
D03 Tapping Plates	Pages 142-144
D05 Tapping Plates	Pages 145-147
D05 Tapping Plates with Pilot Ports	Pages 148-152
D07 Tapping Plates	Pages 153-156
D08 Tapping Plates	Pages 157-160
D10 Tapping Plates	Page 161
Flange Mount Bodies	Pages 162-163
Mounting Hardware	Page 164

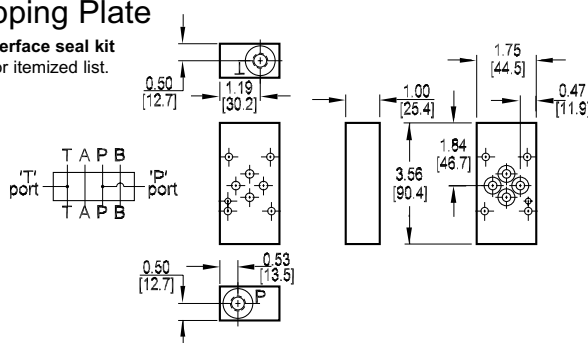
TAPPING PLATES

D03 Tapping Plates	Pages 142-144
D05 Tapping Plates	Pages 145-147
D05 Tapping Plates with Pilot Ports	Pages 148-152
D07 Tapping Plates	Pages 153-156
D08 Tapping Plates	Pages 157-160
D10 Tapping Plates	Page 161
Flange Mount Bodies	Pages 162-163
Mounting Hardware	Page 164

D03 Tapping Plates

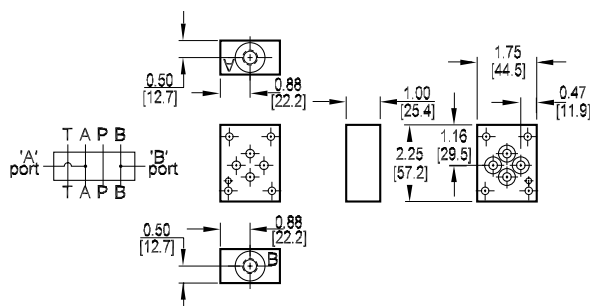
P and T Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



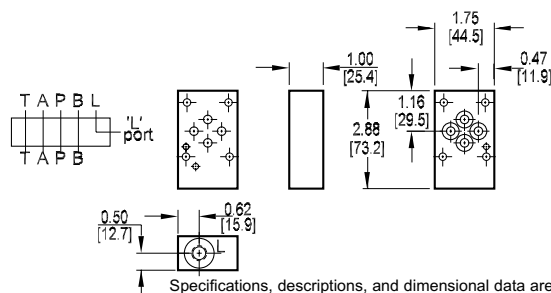
A and B Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



L Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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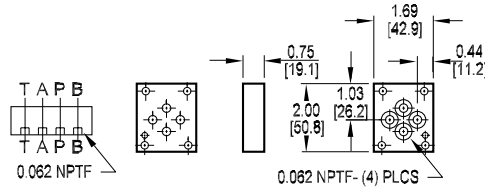
Ordering Information

Material	Valve Pattern	Product Type	Circuit	Port Threads
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern D03 ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information	Product Type TP Tapping Plate	Circuit PT P and T ports provided AB A and B ports provided L L port provided	Port Threads 4P 0.25-18 NPTF ANSI B1.20.3 4S -4 SAE ISO 11926; SAE 1926 4B 0.25-19 BSPP ISO 1179; BS 2779 4M M10 x 1.0 ISO 6149 4T 0.25-19 BSPT ISO 7; BS 21

D03 Tapping Plates

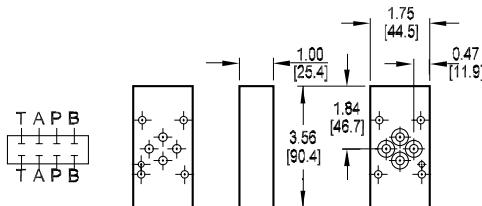
Orifice Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



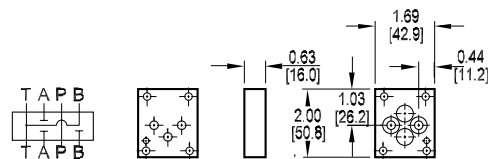
Spot Drilled Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



B to T vent Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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Ordering Information

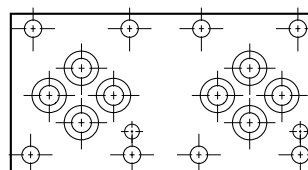
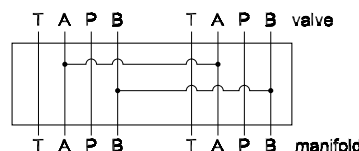
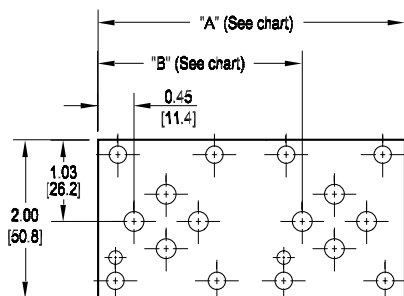
Material		Valve Pattern		Product Type		Circuit																									
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Circuit																															
SD	Spot drilled ports																														
OP	Orifice plate																														
BTV	B to T vent plate																														

D03 Tapping Plates

D03 Two Station Tapping Plate

A_1 common to A_2 , B_1 common to B_2

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



Dimension	A	B
*D03TP022AB	3.88 [98.6]	2.58 [65.5]
*D03TP024AB	5.75 [146.1]	4.45 [113.1]
L*D03TP022AB	3.75 [95.3]	2.45 [62.3]

There are two different tapping plate models with spacing code 2 available. This is necessary to cover the variation of valve spacing between the standard design and the LC (low cost) design of D03 manifolds. The standard manifold design has 2.125" valve spacing while the LC design has 2.000" valve spacing. An L is added to the front of the model number to denote the tapping plate designed to be used with the LC manifold. Note that a single model is required with spacing code 4 as both the standard and LC designs have 4.000 spacing.

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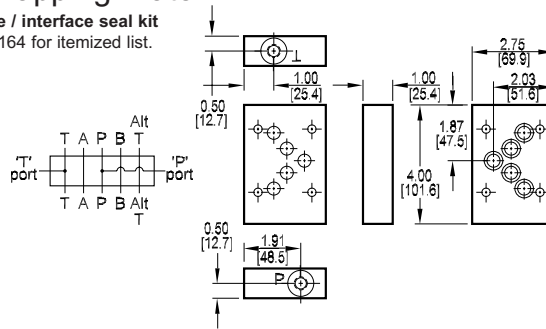
Ordering Information

Product Line		Material	Valve Pattern	Product Type	No. of Stations	Valve Spacing	Circuit																																				
<table><tr><th colspan="2">Product Line</th></tr><tr><td>Omit</td><td>For use with standard design D03 manifold.</td></tr><tr><td>L</td><td>For use with "Low Cost" D03 manifold. Spacing code 2 only.</td></tr></table>		Product Line		Omit	For use with standard design D03 manifold.	L	For use with "Low Cost" D03 manifold. Spacing code 2 only.	<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D03</td><td>ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information</td></tr></table>	Valve Pattern		D03	ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>TP</td><td>Tapping Plate</td></tr></table>	Product Type		TP	Tapping Plate	<table><tr><th colspan="2">No. of Stations</th></tr><tr><td>02</td><td>02 Stations</td></tr></table>	No. of Stations		02	02 Stations	<table><tr><th colspan="2">Valve Spacing</th></tr><tr><td>2</td><td>L*D03TP022AB = 2.00 inch (50.8 mm) *D03TP022AB = 2.13 inch (54.0 mm)</td></tr><tr><td>4</td><td>4.00 inch (101.6 mm) Not available with L.</td></tr></table>	Valve Spacing		2	L*D03TP022AB = 2.00 inch (50.8 mm) *D03TP022AB = 2.13 inch (54.0 mm)	4	4.00 inch (101.6 mm) Not available with L.	<table><tr><th colspan="2">Circuit</th></tr><tr><td>AB</td><td>A1 common to A2 B1 common to B2</td></tr></table>	Circuit		AB	A1 common to A2 B1 common to B2
Product Line																																											
Omit	For use with standard design D03 manifold.																																										
L	For use with "Low Cost" D03 manifold. Spacing code 2 only.																																										
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A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																										
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																										
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.																																											
Valve Pattern																																											
D03	ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information																																										
Product Type																																											
TP	Tapping Plate																																										
No. of Stations																																											
02	02 Stations																																										
Valve Spacing																																											
2	L*D03TP022AB = 2.00 inch (50.8 mm) *D03TP022AB = 2.13 inch (54.0 mm)																																										
4	4.00 inch (101.6 mm) Not available with L.																																										
Circuit																																											
AB	A1 common to A2 B1 common to B2																																										

D05 Tapping Plates

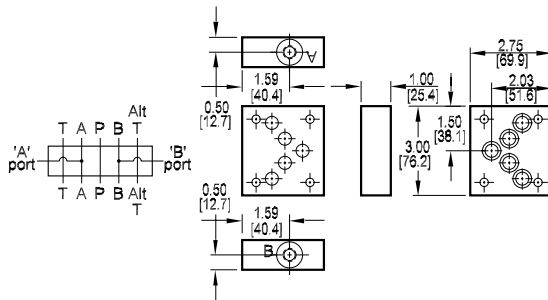
P and T Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



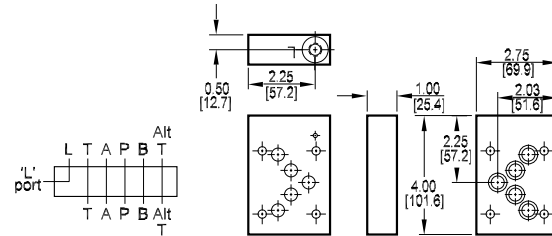
A and B Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



L Port Tapping Plate

Tapping Plate interface seal kit is supplied. See page 164 for itemized list.



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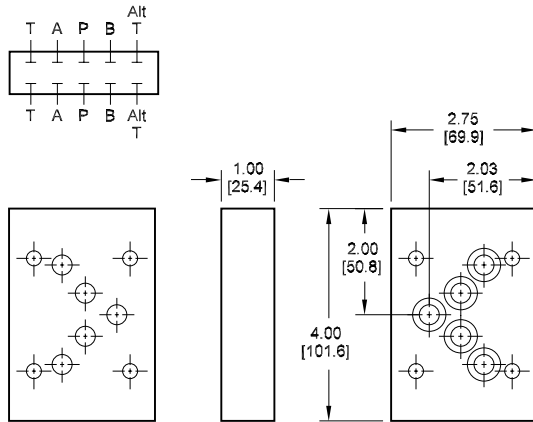
Ordering Information

Material	Valve Pattern	Product Type	Circuit	Port Threads
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern D05 ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	Product Type TP Tapping Plate	Circuit PT P and T ports provided AB A and B ports provided L L port provided	Port Threads 4P 0.25-18 NPTF ANSI B1.20.3 4S -4 SAE ISO 11926; SAE 1926 4B 0.25-19 BSPP ISO 1179; BS 2779 4M M10 x 1.0 ISO 6149 4T 0.25-19 BSPT ISO 7; BS 21

D05 Tapping Plates

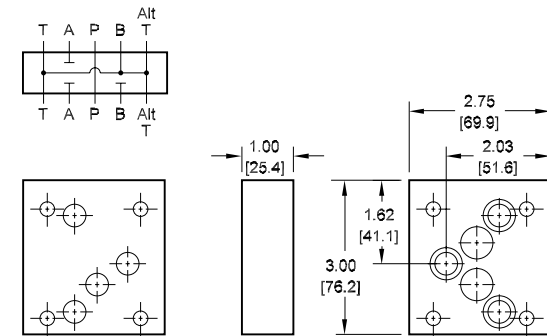
Spot Drilled Tapping Plate

Tapping Plate interface seal kit is supplied.
See page 164 for itemized list.



B to T vent Tapping Plate

Tapping Plate interface seal kit is supplied.
See page 164 for itemized list.



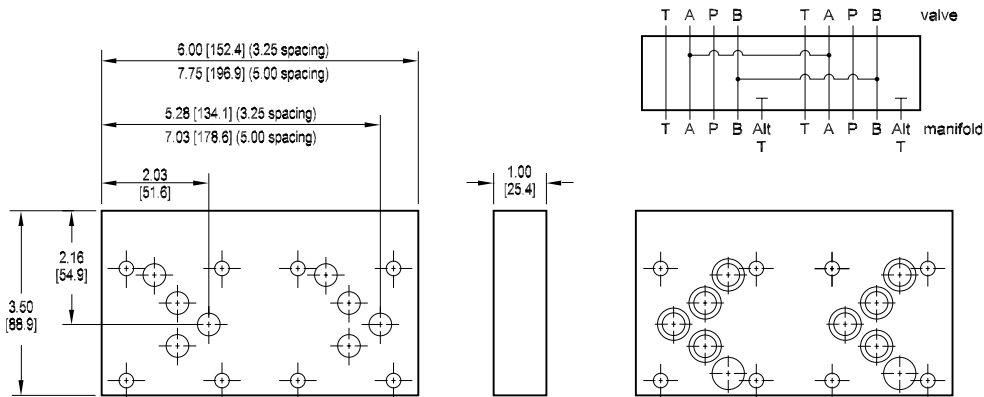
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Ordering Information

Material		Valve Pattern		Product Type		Circuit																							
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D05</td><td>ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information</td></tr></table>		Valve Pattern		D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>TP</td><td>Tapping Plate</td></tr></table>		Product Type		TP	Tapping Plate	<table><tr><th colspan="2">Circuit</th></tr><tr><td>SD</td><td>Spot drilled ports</td></tr><tr><td>BTV</td><td>B to T vent plate</td></tr></table>		Circuit		SD	Spot drilled ports	BTV	B to T vent plate
Material																													
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Product Type																													
TP	Tapping Plate																												
Circuit																													
SD	Spot drilled ports																												
BTV	B to T vent plate																												

D05 Tapping Plates

D05 Two Station Tapping Plate
A₁ common to A₂, B₁ common to B₂
Tapping Plate interface seal kit is supplied.
See page 164 for itemized list.



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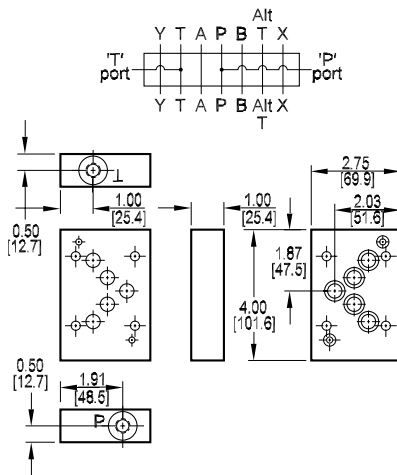
Ordering Information

Material		Valve Pattern		Product Type		No. of Stations		Valve Spacing		Circuit																															
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D05</td><td>ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information</td></tr></table>		Valve Pattern		D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>TP</td><td>Tapping Plate</td></tr></table>		Product Type		TP	Tapping Plate	<table><tr><th colspan="2">No. of Stations</th></tr><tr><td>02</td><td>02 Stations</td></tr></table>		No. of Stations		02	02 Stations	<table><tr><th colspan="2">Valve Spacing</th></tr><tr><td>3</td><td>3.25 inch 82.6 mm</td></tr><tr><td>5</td><td>5.00 inch 127.0 mm</td></tr></table>		Valve Spacing		3	3.25 inch 82.6 mm	5	5.00 inch 127.0 mm	<table><tr><th colspan="2">Circuit</th></tr><tr><td>AB</td><td>A1 common to A2 B1 common to B2</td></tr></table>		Circuit		AB	A1 common to A2 B1 common to B2
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Valve Pattern																																									
D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information																																								
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Circuit																																									
AB	A1 common to A2 B1 common to B2																																								

D05 Tapping Plates with USA Pilot Ports

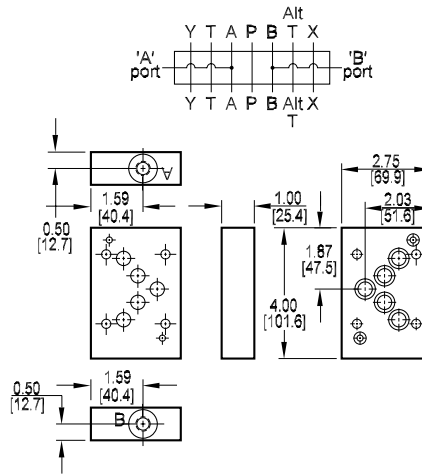
P and T Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



A and B Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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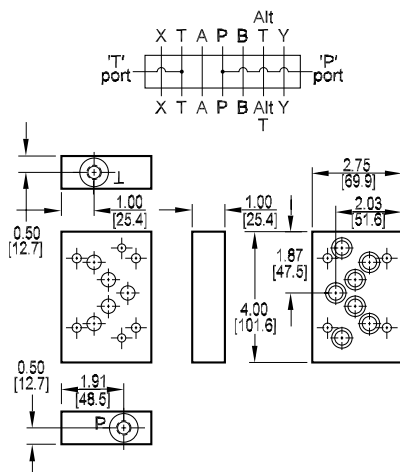
Ordering Information

Material		Valve Pattern		Product Type		Circuit		Port Threads																																			
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D05H</td><td>(USA std) NFFPA T3.5.1-D05 Alt B See Tech Information</td></tr></table>		Valve Pattern		D05H	(USA std) NFFPA T3.5.1-D05 Alt B See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>TP</td><td>Tapping Plate</td></tr></table>		Product Type		TP	Tapping Plate	<table><tr><th colspan="2">Circuit</th></tr><tr><td>PT</td><td>P and T ports provided</td></tr><tr><td>AB</td><td>A and B ports provided</td></tr></table>		Circuit		PT	P and T ports provided	AB	A and B ports provided	<table><tr><th colspan="2">Port Threads</th></tr><tr><td>4P</td><td>0.25-18 NPTF ANSI B1.20.3</td></tr><tr><td>4S</td><td>-4 SAE ISO 11926; SAE 1926</td></tr><tr><td>4B</td><td>0.25-19 BSPP ISO 1179; BS 2779</td></tr><tr><td>4M</td><td>M10 x 1.0 ISO 6149</td></tr><tr><td>4T</td><td>0.25-19 BSPT ISO 7; BS 21</td></tr></table>		Port Threads		4P	0.25-18 NPTF ANSI B1.20.3	4S	-4 SAE ISO 11926; SAE 1926	4B	0.25-19 BSPP ISO 1179; BS 2779	4M	M10 x 1.0 ISO 6149	4T	0.25-19 BSPT ISO 7; BS 21
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Valve Pattern																																											
D05H	(USA std) NFFPA T3.5.1-D05 Alt B See Tech Information																																										
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4T	0.25-19 BSPT ISO 7; BS 21																																										

D05 Tapping Plates with ISO Pilot Ports

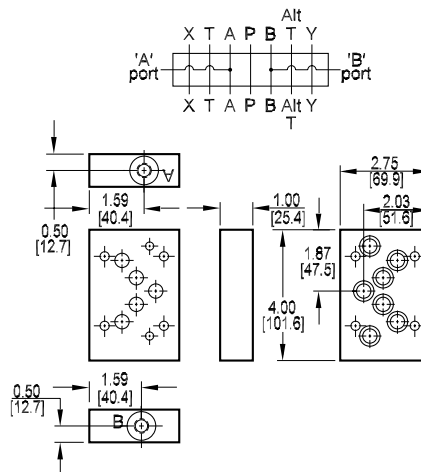
P and T Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



A and B Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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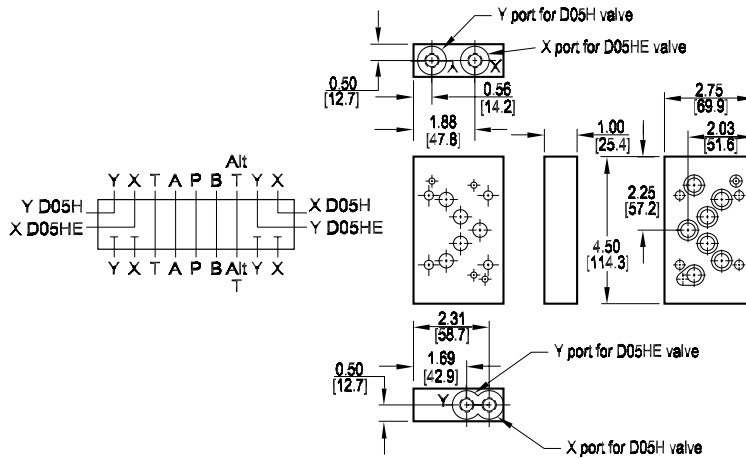
Ordering Information

Material	Valve Pattern	Product Type	Circuit	Port Threads
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern D05HE ISO 4401-05-05 NFPA T3.5.1-D05 Alt A See Tech Information	Product Type TP Tapping Plate	Circuit PT P and T ports provided AB A and B ports provided	Port Threads 4P 0.25-18 NPTF ANSI B1.20.3 4S -4 SAE ISO 11926; SAE 1926 4B 0.25-19 BSPP ISO 1179; BS 2779 4M M10 x 1.0 ISO 6149 4T 0.25-19 BSPT ISO 7; BS 21

D05 Tapping Plates with Pilot Ports

X and Y Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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Ordering Information

Material		Valve Pattern		Product Type		Circuit		Port Threads	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D05H	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B See Technical Information	TP	Tapping Plate	XY	X and Y ports provided	4P	0.25-18 NPTF ANSI B1.20.3
	4S							-4 SAE ISO 11926; SAE 1926	
D	Ductile Iron - D4512 5000† psi • 34.5 MPa							4B	0.25-19 BSPP ISO 1179; BS 2779
								4M	M10 x 1.0 ISO 6149
								4T	0.25-19 BSPT ISO 7; BS 21

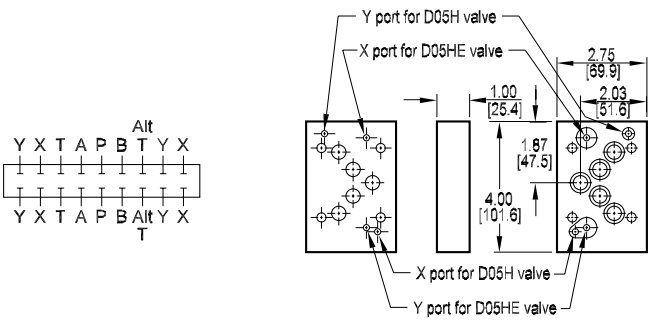
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.



D05 Tapping Plates with Pilot Ports

Spot Drilled Tapping Plate

Tapping Plate interface seal kit is supplied.
See page 164 for itemized list.



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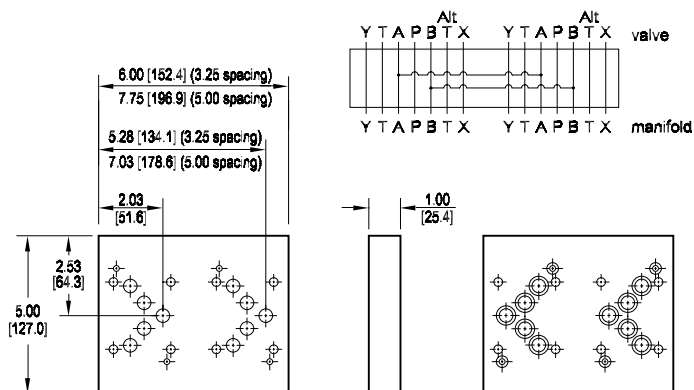
Ordering Information

Material		Valve Pattern		Product Type		Circuit																					
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D05H</td><td>ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B See Technical Information</td></tr></table>		Valve Pattern		D05H	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B See Technical Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>TP</td><td>Tapping Plate</td></tr></table>		Product Type		TP	Tapping Plate	<table><tr><th colspan="2">Circuit</th></tr><tr><td>SD</td><td>Spot drilled ports</td></tr></table>		Circuit		SD	Spot drilled ports
Material																											
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† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.																											
Valve Pattern																											
D05H	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B See Technical Information																										
Product Type																											
TP	Tapping Plate																										
Circuit																											
SD	Spot drilled ports																										

D05 Tapping Plates with Pilot Ports

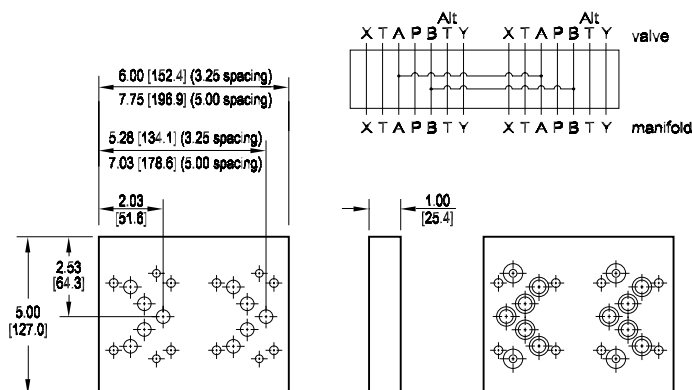
D05(H) Two Station Tapping Plate (USA Pilot Ports) A₁ common to A₂, B₁ common to B₂

Tapping Plate interface seal kit is supplied.
See page 164 for itemized list.



D05(HE) Two Station Tapping Plate (ISO Pilot Ports) A₁ common to A₂, B₁ common to B₂

Tapping Plate interface seal kit is supplied.
See page 164 for itemized list.



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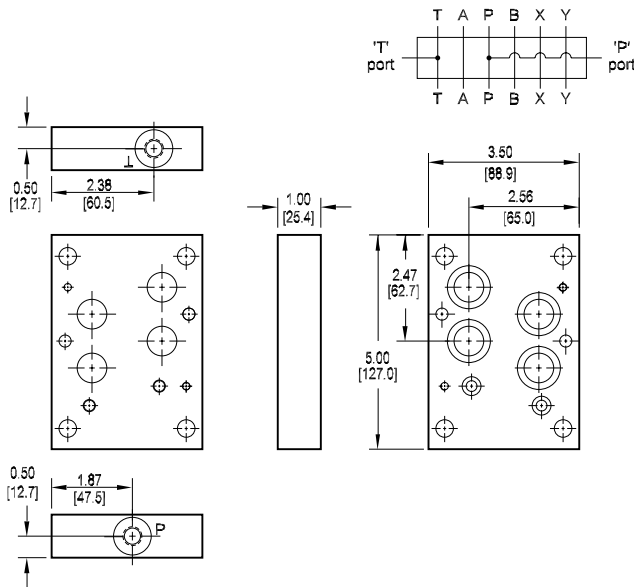
Ordering Information

Material		Valve Pattern		Product Type		No. of Stations		Valve Spacing		Circuit																																	
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D05H</td><td>(USA std) NFPA T3.5.1-D05 Alt B See Tech Information</td></tr><tr><td>D05HE</td><td>ISO 4401-05-05 NFPA T3.5.1-D05 Alt A See Tech Information</td></tr></table>		Valve Pattern		D05H	(USA std) NFPA T3.5.1-D05 Alt B See Tech Information	D05HE	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>TP</td><td>Tapping Plate</td></tr></table>		Product Type		TP	Tapping Plate	<table><tr><th colspan="2">No. of Stations</th></tr><tr><td>02</td><td>02 Stations</td></tr></table>		No. of Stations		02	02 Stations	<table><tr><th colspan="2">Valve Spacing</th></tr><tr><td>3</td><td>3.25 inch 82.6 mm</td></tr><tr><td>5</td><td>5.00 inch 127.0 mm</td></tr></table>		Valve Spacing		3	3.25 inch 82.6 mm	5	5.00 inch 127.0 mm	<table><tr><th colspan="2">Circuit</th></tr><tr><td>AB</td><td>A1 common to A2 B1 common to B2</td></tr></table>		Circuit		AB	A1 common to A2 B1 common to B2
Material																																											
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D05H	(USA std) NFPA T3.5.1-D05 Alt B See Tech Information																																										
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5	5.00 inch 127.0 mm																																										
Circuit																																											
AB	A1 common to A2 B1 common to B2																																										

D07 Tapping Plates

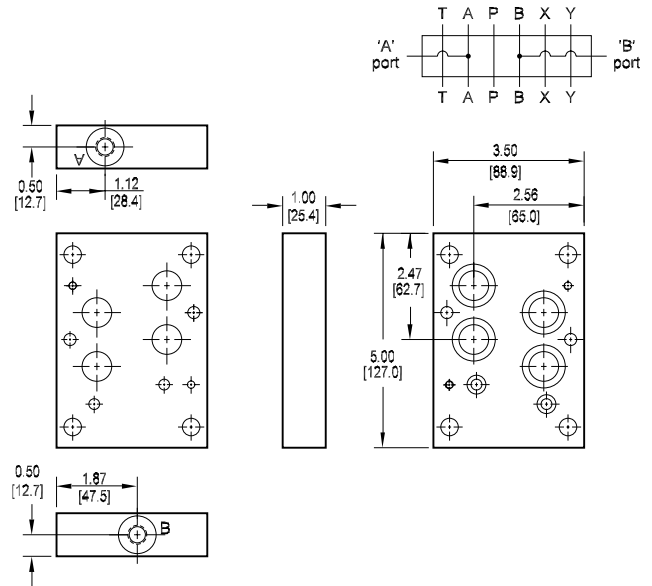
P and T Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



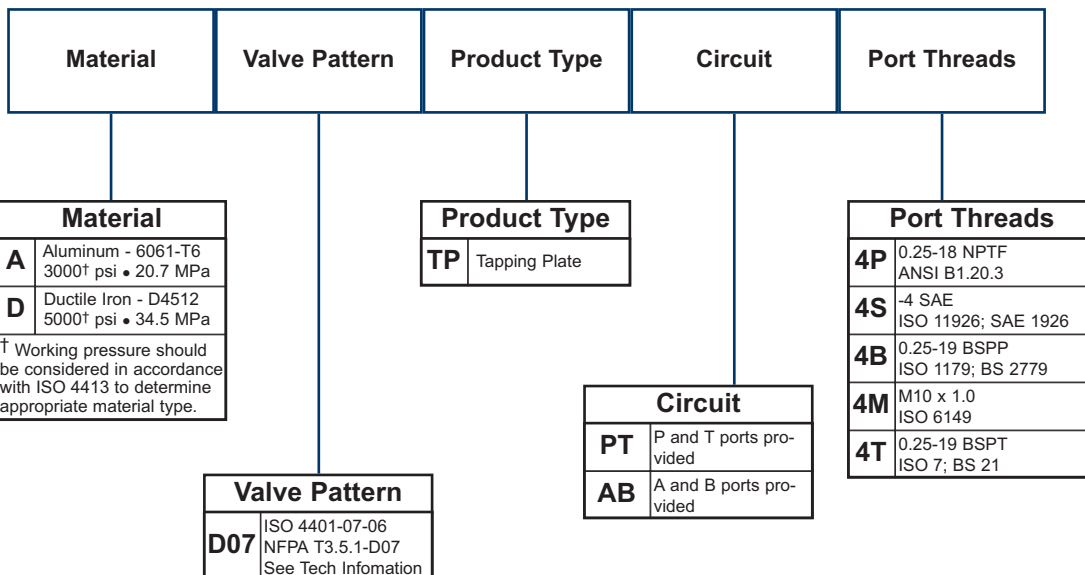
A and B Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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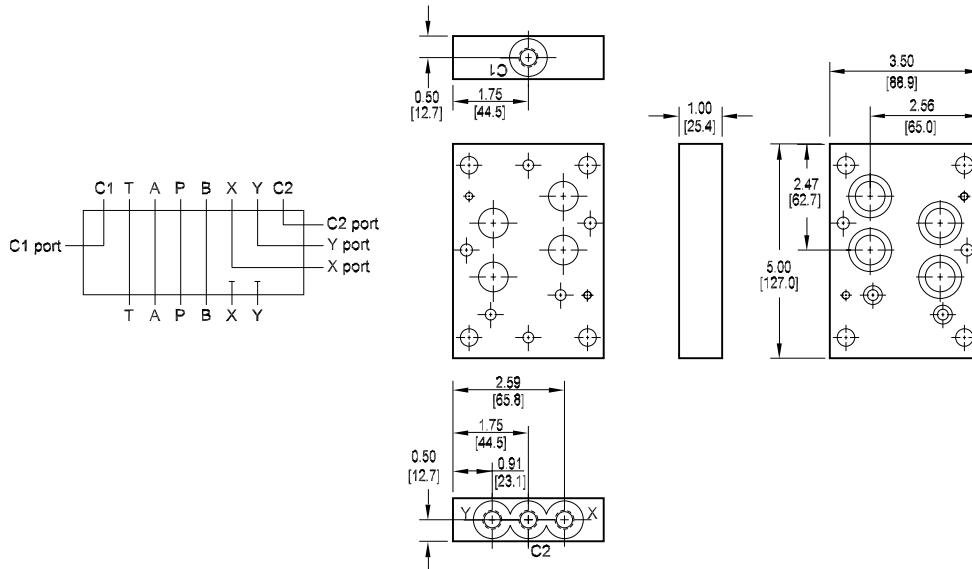
Ordering Information



D07 Tapping Plates

X and Y Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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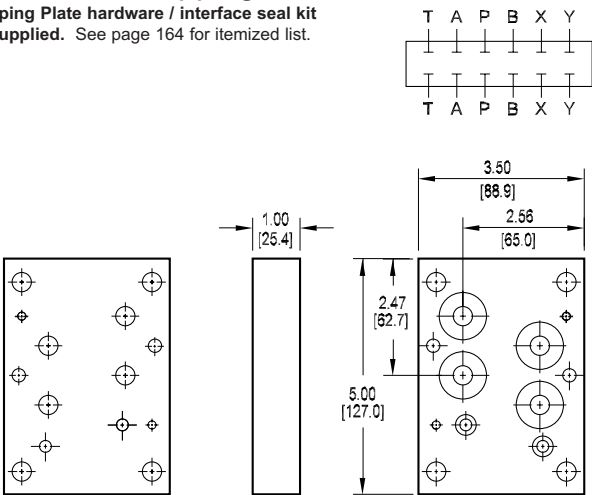
Ordering Information

Material		Valve Pattern		Product Type		Circuit		Port Threads																																	
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D07</td><td>ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information</td></tr></table>		Valve Pattern		D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>TP</td><td>Tapping Plate</td></tr></table>		Product Type		TP	Tapping Plate	<table><tr><th colspan="2">Circuit</th></tr><tr><td>XY</td><td>X and Y ports provided</td></tr></table>		Circuit		XY	X and Y ports provided	<table><tr><th colspan="2">Port Threads</th></tr><tr><td>4P</td><td>0.25-18 NPTF ANSI B1.20.3</td></tr><tr><td>4S</td><td>-4 SAE ISO 11926; SAE 1926</td></tr><tr><td>4B</td><td>0.25-19 BSPP ISO 1179; BS 2779</td></tr><tr><td>4M</td><td>M10 x 1.0 ISO 6149</td></tr><tr><td>4T</td><td>0.25-19 BSPT ISO 7; BS 21</td></tr></table>		Port Threads		4P	0.25-18 NPTF ANSI B1.20.3	4S	-4 SAE ISO 11926; SAE 1926	4B	0.25-19 BSPP ISO 1179; BS 2779	4M	M10 x 1.0 ISO 6149	4T	0.25-19 BSPT ISO 7; BS 21
Material																																									
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																								
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																								
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.																																									
Valve Pattern																																									
D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information																																								
Product Type																																									
TP	Tapping Plate																																								
Circuit																																									
XY	X and Y ports provided																																								
Port Threads																																									
4P	0.25-18 NPTF ANSI B1.20.3																																								
4S	-4 SAE ISO 11926; SAE 1926																																								
4B	0.25-19 BSPP ISO 1179; BS 2779																																								
4M	M10 x 1.0 ISO 6149																																								
4T	0.25-19 BSPT ISO 7; BS 21																																								

D07 Tapping Plates

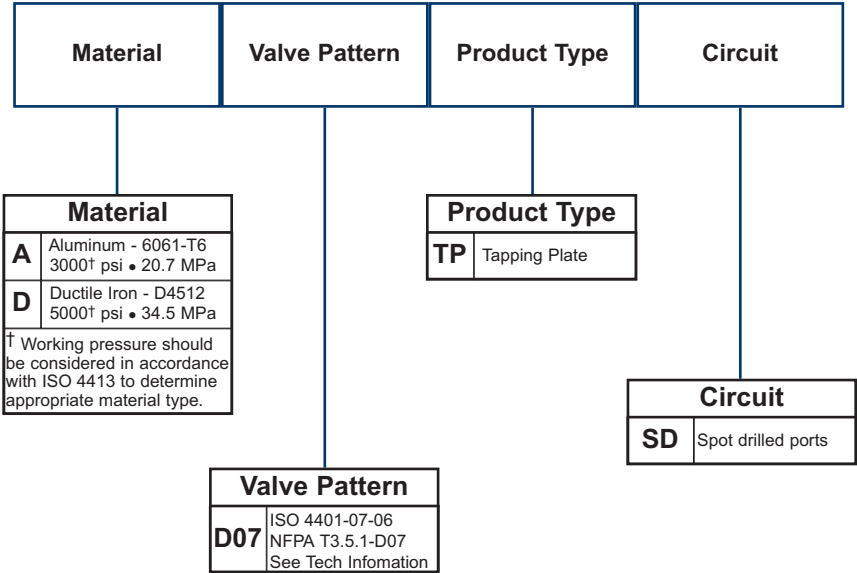
Spot Drilled Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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Ordering Information



D07 Tapping Plates

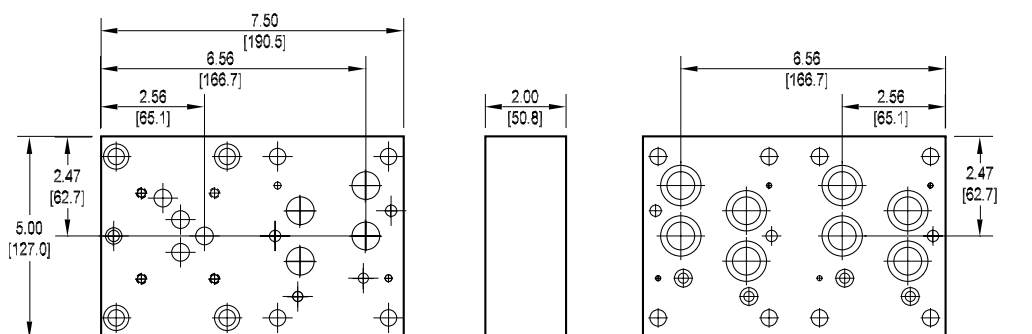
D05-D07 Two Station Tapping Plate

A₁ common to A₂, B₁ common to B₂

D05 Valve mtg: UNC 0.25-20 x 0.75 [19] DP

Tapping Plate hardware / interface seal kit is supplied. * See page 164 for itemized list.

* (6) bolts are user supplied and must pass through valve and tapping plate to thread into manifold.



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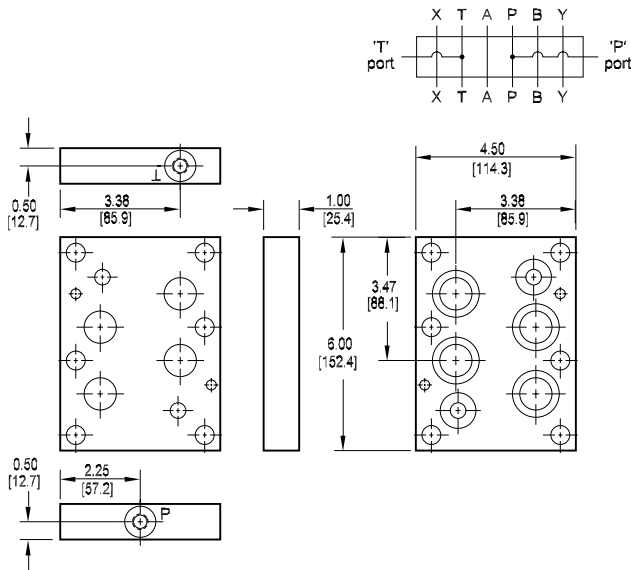
Ordering Information

Material	Valve Pattern Station 1	Valve Pattern Station 2	Product Type	No. of Stations	Valve Spacing	Circuit
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Station 1 D05 ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	Valve Station 2 D07 ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information	Product Type TP Tapping Plate	No. of Stations 02 02 Stations	Valve Spacing 4 4.00 inch 101.6 mm	Circuit AB A1 common to A2 B1 common to B2

D08 Tapping Plates

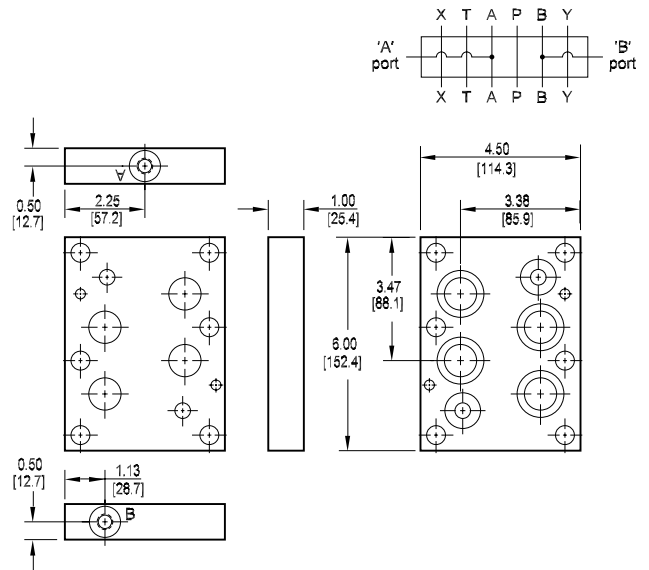
P and T Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



A and B Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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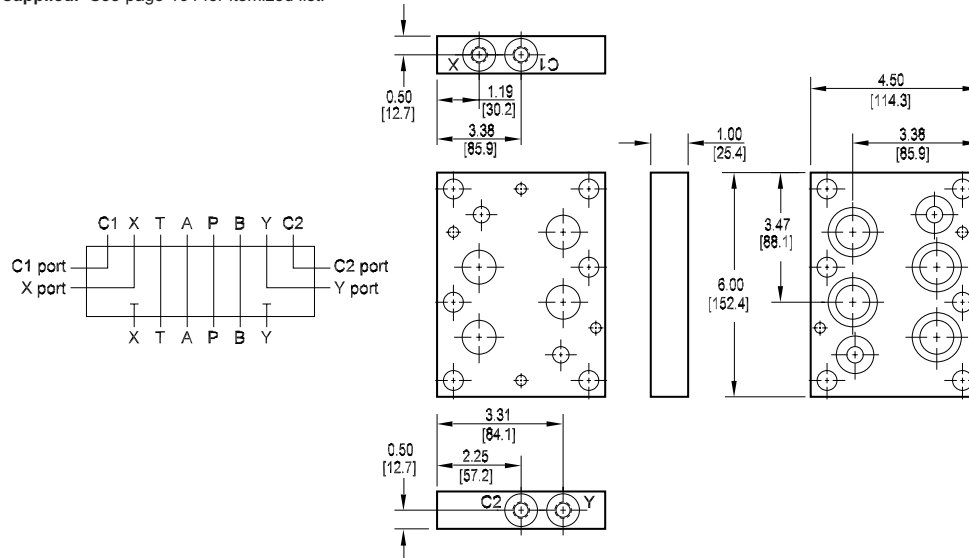
Ordering Information

Material	Valve Pattern	Product Type	Circuit	Port Threads
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Pattern D08 ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information	Product Type TP Tapping Plate	Circuit PT P and T ports provided AB A and B ports provided	Port Threads 4P 0.25-18 NPTF ANSI B1.20.3 4S -4 SAE ISO 11926; SAE 1926 4B 0.25-19 BSPP ISO 1179; BS 2779 4M M10 x 1.0 ISO 6149 4T 0.25-19 BSPT ISO 7; BS 21

D08 Tapping Plates

X and Y Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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Ordering Information

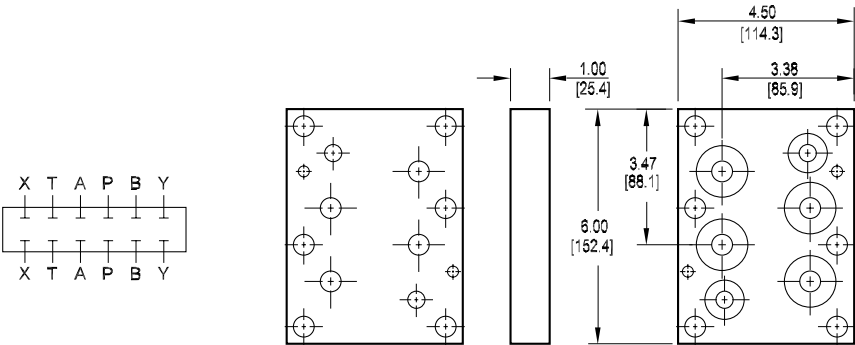
Material		Valve Pattern		Product Type		Circuit		Port Threads																																	
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D08</td><td>ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information</td></tr></table>		Valve Pattern		D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>TP</td><td>Tapping Plate</td></tr></table>		Product Type		TP	Tapping Plate	<table><tr><th colspan="2">Circuit</th></tr><tr><td>XY</td><td>X and Y ports provided</td></tr></table>		Circuit		XY	X and Y ports provided	<table><tr><th colspan="2">Port Threads</th></tr><tr><td>4P</td><td>0.25-18 NPTF ANSI B1.20.3</td></tr><tr><td>4S</td><td>-4 SAE ISO 11926; SAE 1926</td></tr><tr><td>4B</td><td>0.25-19 BSPP ISO 1179; BS 2779</td></tr><tr><td>4M</td><td>M10 x 1.0 ISO 6149</td></tr><tr><td>4T</td><td>0.25-19 BSPT ISO 7; BS 21</td></tr></table>		Port Threads		4P	0.25-18 NPTF ANSI B1.20.3	4S	-4 SAE ISO 11926; SAE 1926	4B	0.25-19 BSPP ISO 1179; BS 2779	4M	M10 x 1.0 ISO 6149	4T	0.25-19 BSPT ISO 7; BS 21
Material																																									
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																								
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																								
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Valve Pattern																																									
D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information																																								
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4M	M10 x 1.0 ISO 6149																																								
4T	0.25-19 BSPT ISO 7; BS 21																																								



D08 Tapping Plates

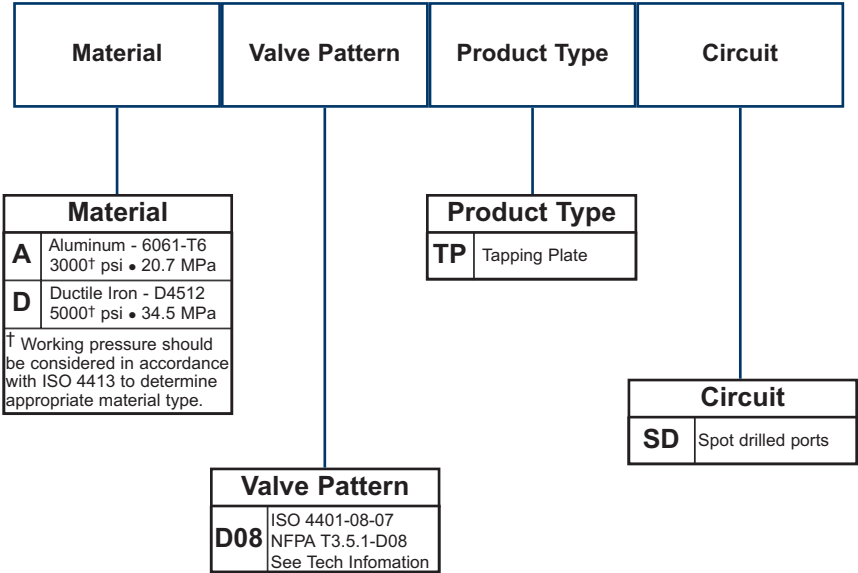
Spot Drilled Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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Ordering Information



D08 Tapping Plates

D03-D08 Two Station Tapping Plate

A₁ common to A₂, B₁ common to B₂

D03 Valve mtg: UNC #10-24 x 0.62 [16] DP

Tapping Plate hardware / interface seal kit is supplied. * See page 164 for itemized list.

* (6) bolts are user supplied and must pass through valve and tapping plate to thread into manifold.

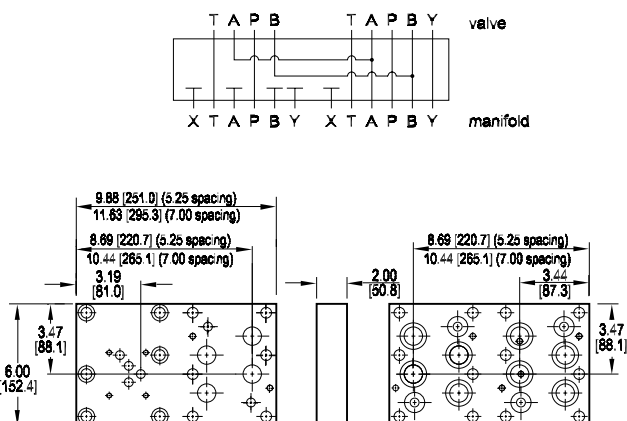
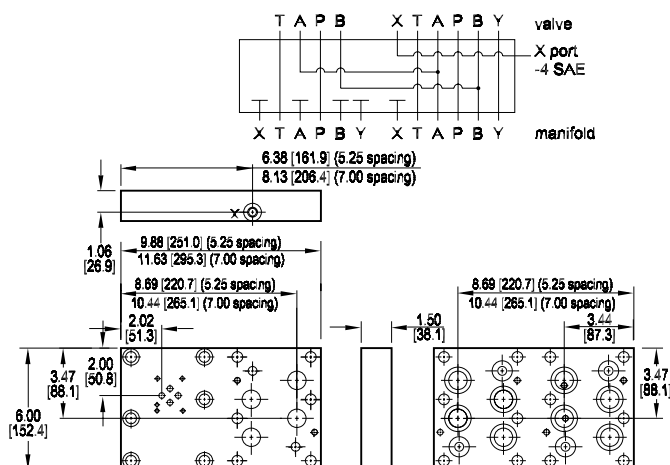
D05-D08 Two Station Tapping Plate

A₁ common to A₂, B₁ common to B₂

D05 Valve mtg: UNC 0.25-20 x 0.75 [19] DP

Tapping Plate hardware / interface seal kit is supplied. * See page 164 for itemized list.

* (6) bolts are user supplied and must pass through valve and tapping plate to thread into manifold.



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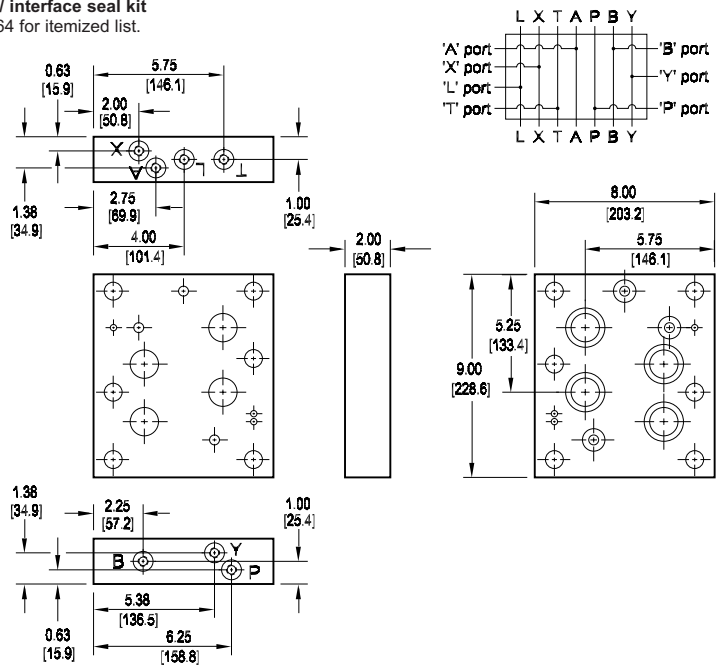
Ordering Information

Material	Valve Pattern Station 1	Valve Pattern Station 2	Product Type	No. of Stations	Valve Spacing	Circuit
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Valve Station 1 D03 ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information D05 ISO 4401-05-04 NFFPA T3.5.1-D05 See Tech Information	Valve Station 2 D08 ISO 4401-08-07 NFFPA T3.5.1-D08 See Tech Information	Product Type TP Tapping Plate	No. of Stations 02 02 Stations	Valve Spacing 5 5.25 inch 133.4 mm 7 7.00 inch 177.8 mm	Circuit AB A1 common to A2 B1 common to B2

D10 Tapping Plates

P, T, A, B, X, Y, and L Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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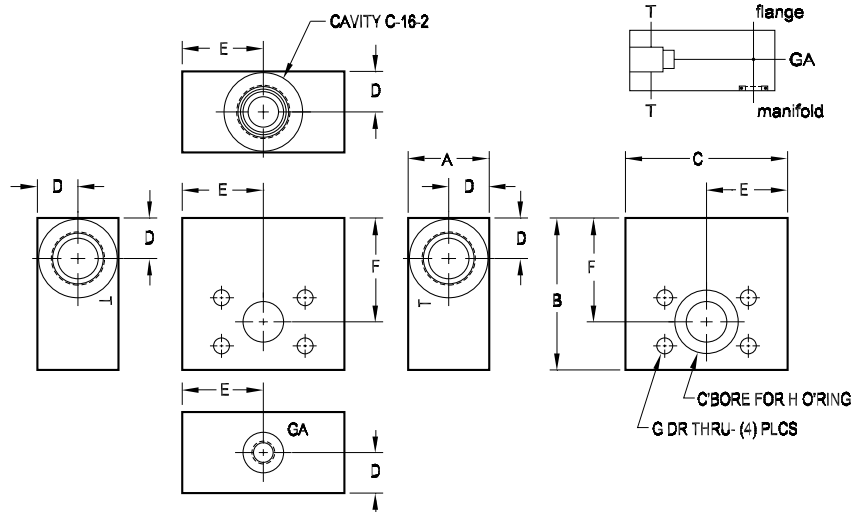
Ordering Information

Material		Valve Pattern		Product Type		Circuit		Port Threads																											
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Valve Pattern</th></tr><tr><td>D10</td><td>ISO 4401-10-08 NFPA T3.5.1-D10 See Tech Information</td></tr></table>		Valve Pattern		D10	ISO 4401-10-08 NFPA T3.5.1-D10 See Tech Information	<table><tr><th colspan="2">Product Type</th></tr><tr><td>TP</td><td>Tapping Plate</td></tr></table>		Product Type		TP	Tapping Plate	<table><tr><th colspan="2">Circuit</th></tr><tr><td>PTAB</td><td>P, T, A, B, X, Y, and L ports provided</td></tr></table>		Circuit		PTAB	P, T, A, B, X, Y, and L ports provided	<table><tr><th colspan="2">Port Threads</th></tr><tr><td>4P</td><td>0.25-18 NPTF ANSI B1.20.3</td></tr><tr><td>4S</td><td>-4 SAE ISO 11926; SAE 1926</td></tr></table>		Port Threads		4P	0.25-18 NPTF ANSI B1.20.3	4S	-4 SAE ISO 11926; SAE 1926
Material																																			
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																		
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																		
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.																																			
Valve Pattern																																			
D10	ISO 4401-10-08 NFPA T3.5.1-D10 See Tech Information																																		
Product Type																																			
TP	Tapping Plate																																		
Circuit																																			
PTAB	P, T, A, B, X, Y, and L ports provided																																		
Port Threads																																			
4P	0.25-18 NPTF ANSI B1.20.3																																		
4S	-4 SAE ISO 11926; SAE 1926																																		

Aluminum Flange Mount Bodies

Flange Mount Body with 2-port Cavity

Flange interface seal is supplied. See chart.
 Plug for GA Port (-6 SAE) is supplied.
 (4) mounting bolts are user supplied and must
 pass through flange and valve body to thread into
 customers flange interface.



PART NO.	A	B	C	D
AFMBC16212F6116S	2.00 [50.8]	3.50 [88.9]	4.00 [101.6]	1.00 [25.4]
AFMBC16216F6116S	2.00 [50.8]	3.75 [95.3]	4.00 [101.6]	1.00 [25.4]
AFMBC16220F6116S	2.00 [50.8]	4.25 [108.0]	4.00 [101.6]	1.00 [25.4]
AFMBC16224F6116S	2.00 [50.8]	4.63 [117.5]	4.00 [101.6]	1.00 [25.4]

PART NO.	E	F	G	H
AFMBC16212F6116S	2.00 [50.8]	2.44 [61.9]	0.41 [10.3]	-214
AFMBC16216F6116S	2.00 [50.8]	2.56 [65.1]	0.41 [10.3]	-219
AFMBC16220F6116S	2.00 [50.8]	2.75 [69.9]	0.47 [11.9]	-222
AFMBC16224F6116S	2.00 [50.8]	2.88 [73.0]	0.53 [13.5]	-225

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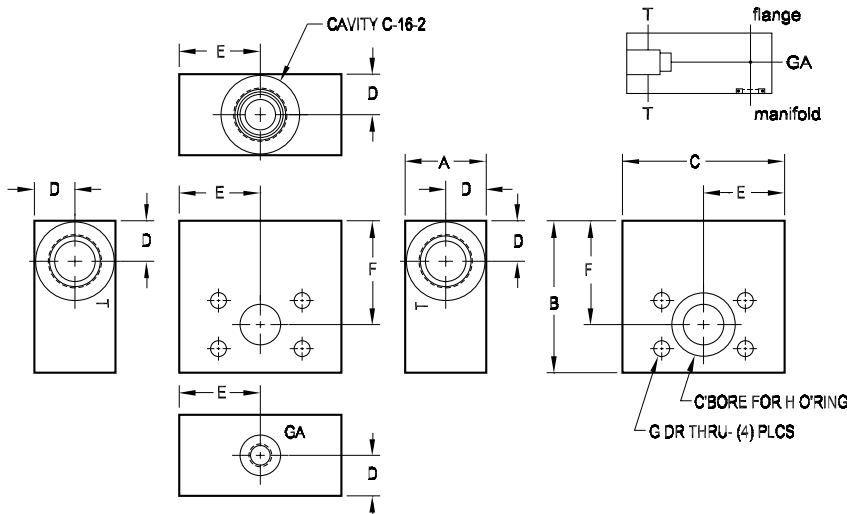
Ordering Information

Material	Product Type	Cavity Type	Cavity Size	Flange Size	Flange Rating	Port Threads
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Product Type FMB Flange Mount Body	Cavity Type C Industry Standard Common Cavity	Cavity Size 162 Cavity C-16-2	Flange Size 12F ISO 6162 - DN19 Split Flange SAE Size 12 (0.75") Flange 16F ISO 6162 - DN25 Split Flange SAE Size 16 (1.00") Flange 20F ISO 6162 - DN32 Split Flange SAE Size 20 (1.25") Flange 24F ISO 6162 - DN38 Split Flange SAE Size 24 (1.50") Flange	Flange Rating 61 ISO 6162 - 2.5 to 35 MPa • SAE code 61	Port Threads 16S -16 SAE "T" Ports -6 SAE "GA" Port ISO 11926; SAE 1926

Ductile Iron Flange Mount Bodies

Flange Mount Body with 2-port Cavity

Flange interface seal is supplied. See chart.
 Plug for GA Port (-6 SAE) is supplied.
 (4) mounting bolts are user supplied and must pass through flange and valve body to thread into customers flange interface.



PART NO.	A	B	C	D
DFMBC16216F6216S	2.00 [50.8]	4.13 [104.8]	4.00 [101.6]	1.00 [25.4]
DFMBC16220F6216S	2.00 [50.8]	4.38 [111.1]	4.00 [101.6]	1.00 [25.4]
DFMBC16224F6216S	2.00 [50.8]	4.88 [123.8]	4.50 [114.3]	1.00 [25.4]

PART NO.	E	F	G	H
DFMBC16216F6216S	2.00 [50.8]	2.69 [68.3]	0.47 [11.9]	-219
DFMBC16220F6216S	2.00 [50.8]	2.81 [71.4]	0.53 [13.5]	-222
DFMBC16224F6216S	2.25 [57.2]	2.97 [75.4]	0.66 [16.7]	-225

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Product Type	Cavity Type	Cavity Size	Flange Size	Flange Rating	Port Threads
Material D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	Product Type FMB Flange Mount Body	Cavity Type C Industry Standard Common Cavity	Cavity Size 162 Cavity C-16-2	Flange Size 16F ISO 6162 - DN25 Split Flange SAE Size 16 (1.00") Flange 20F ISO 6162 - DN32 Split Flange SAE Size 20 (1.25") Flange 24F ISO 6162 - DN38 Split Flange SAE Size 24 (1.50") Flange	Flange Rating 62 ISO 6162 -40 MPa • SAE code 62	Port Threads 16S -16 SAE "T" Ports -6 SAE "GA" Port ISO 11926; SAE 1926

Tapping Plate Mounting Hardware

Part no.	Catalog pg.	Viton O-rings 75 durometer	Locating Pins	Plugs	Mounting Screws
* D03 TP PT 4P * D03 TP PT 4S * D03 TP PT 4B, M, T * D03 TP AB 4P * D03 TP AB 4S * D03 TP AB 4B, M, T * D03 TP L 4*	142	(4) -012	(1) 0.12 dia x 0.25 long	(1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a (1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a n/a	n/a
* D03 TP SD * D03 TP OP * D03 TP BTV	143	(4) -012	(1) 0.12 dia x 0.25 long	n/a (2) 0.06-27 NPTF LSPP n/a	n/a
* D03 TP 02 * AB	144	(8) -012	(2) 0.12 dia x 0.25 long	n/a	n/a
* D05 TP PT 4P * D05 TP PT 4S * D05 TP PT 4B, M, T * D05 TP AB 4P * D05 TP AB 4S * D05 TP AB 4B, M, T * D05 TP L 4*	145	(5) -014	n/a	(1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a (1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a n/a	n/a
* D05 TP SD * D05 TP BTV	146	(5) -014	n/a	n/a	n/a
* D05 TP 02 * AB	147	(10) -014	n/a	n/a	n/a
* D05H TP ** 4P * D05H TP ** 4S * D05H TP ** 4B, M, T	148	(2) -011, (5) -014	n/a	(1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a	n/a
* D05HE TP ** 4P * D05HE TP ** 4S * D05HE TP ** 4B, M, T	149	(7) -014	n/a	(1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a	n/a
* D05H TP XY 4P * D05H TP XY 4S * D05H TP XY 4B, M, T * D05H TP SD	150 150 150 151	(1) -011, (6) -014, and (1) -016	n/a	(3) 0.25-18 NPTF LSPP (3) -4 SAE hex socket plug n/a n/a	n/a
* D05H TP 02 * AB * D05HE TP 02 * AB	152	(4) -011, (10) -014 (14) -014	n/a	n/a	n/a
* D07 TP ** 4P * D07 TP ** 4S * D07 TP ** 4B, M, T	153	(2) -011, (4) -210	(2) 0.12 dia x 0.25 long	(1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a	n/a
* D07 TP XY 4P * D07 TP XY 4S * D07 TP XY 4B, M, T * D07 TP SD	154 154 154 155	(2) -011, (4) -210	(2) 0.12 dia x 0.25 long	(3) 0.25-18 NPTF LSPP (3) -4 SAE hex socket plug n/a n/a	n/a
* D05 D07 TP 02 4 AB	156	(4) -011, (8) -210	(4) 0.12 dia x 0.25 long	n/a	(1) UNC 0.25-20 x 2.00 SHCS & (4) 0.38-16 x 2.00 long SHCS
* D08 TP ** 4P * D08 TP ** 4S * D08 TP ** 4B, M, T	157	(2) -210, (4) -215	(2) 0.25 dia x 0.50 long	(1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a	n/a
* D08 TP XY 4P * D08 TP XY 4S * D08 TP XY 4B, M, T * D08 TP SD	158 158 158 159	(2) -210, (4) -215	(2) 0.25 dia x 0.50 long	(3) 0.25-18 NPTF LSPP (3) -4 SAE hex socket plug n/a n/a	n/a
* D03 D08 TP 02 * AB * D05 D08 TP 02 * AB	160	(4) -210, (8) -215	(4) 0.25 dia x 0.50 long	n/a	(6) UNC 0.50-13 x 2.00 SHCS
* D10 TP PTAB 4*	161	(3) -210, (4) -222	(2) 0.25 dia x 0.50 long	n/a	n/a

A man wearing safety glasses and a light-colored button-down shirt with two name tags, 'Andrew' and 'Daman', is working in a workshop. He is holding a power tool, possibly a drill or a screwdriver, and is focused on his work. The background is slightly blurred, showing some workshop equipment and lights.

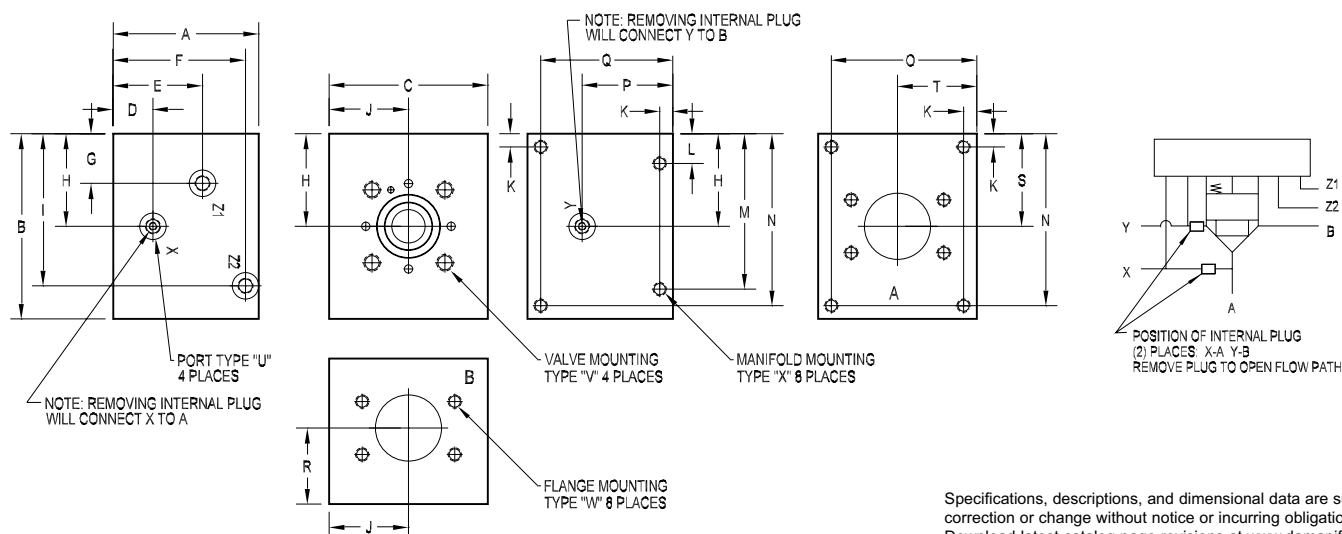
Hydraulic Valve Manifolds Better System Design Begins with a Manifold.

DIN CARTRIDGE VALVE BODIES

(ISO) 7368 • DIN 24342 • NFPA T3.5.45 STANDARDS)

16mm Body • XA Circuit	Page 166
16mm Body • XB Circuit	Page 167
25mm Body • XA Circuit	Page 168
25mm Body • XB Circuit	Page 169
32mm Body • XA Circuit	Page 170
32mm Body • XB Circuit	Page 171
40mm Body • XA Circuit	Page 172
40mm Body • XB Circuit	Page 173
50mm Body • XA Circuit	Page 174
50mm Body • XB Circuit	Page 175
63mm Body • XA Circuit	Page 176
63mm Body • XB Circuit	Page 177

16mm Body • XA Circuit



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PART NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
*16XA16F61	3.50	4.00	3.00	1.00	1.56	2.00	0.75	1.63	2.63	1.50	0.31	0.69	3.31	3.69	2.69	2.14
*16XA16F61M	[88.9]	[101.6]	[76.2]	[25.4]	[39.7]	[50.8]	[19.1]	[41.3]	[66.7]	[38.1]	[7.9]	[17.5]	[84.1]	[93.7]	[68.3]	[54.3]
*16XB16F61	3.50	4.00	3.00	2.14	--	2.00	1.00	1.63	2.63	1.50	0.31	0.69	3.31	3.69	2.69	2.14
*16XB16F61M	[88.9]	[101.6]	[76.2]	[54.3]	--	[50.8]	[25.4]	[41.3]	[66.7]	[38.1]	[7.9]	[17.5]	[84.1]	[93.7]	[68.3]	[54.3]
D16XA16F62	3.50	4.25	3.50	1.00	1.56	2.00	0.88	1.88	2.88	1.75	0.31	0.69	3.56	3.94	3.19	2.14
D16XA16F62M	[88.9]	[108.0]	[88.9]	[25.4]	[39.7]	[50.8]	[22.2]	[47.6]	[73.0]	[44.5]	[7.9]	[17.5]	[90.5]	[100.0]	[81.0]	[54.3]
D16XB16F62	3.50	4.25	3.50	2.14	--	2.00	1.00	1.88	2.88	1.75	0.31	0.69	3.56	3.94	3.19	2.14
D16XB16F62M	[88.9]	[108.0]	[88.9]	[54.3]	--	[50.8]	[25.4]	[47.6]	[73.0]	[44.5]	[7.9]	[17.5]	[90.5]	[100.0]	[81.0]	[54.3]
*16XA20F61	3.50	4.00	3.50	1.00	2.14	2.14	0.63	1.63	2.63	1.75	0.31	0.66	3.34	3.69	3.19	2.14
*16XA20F61M	[88.9]	[101.6]	[88.9]	[25.4]	[54.3]	[54.3]	[15.9]	[41.3]	[66.7]	[44.5]	[7.9]	[16.7]	[84.9]	[93.6]	[81.0]	[54.3]
*16XB20F61	3.50	4.00	3.50	2.14	--	2.14	1.00	1.63	2.63	1.75	0.31	0.66	3.34	3.69	3.19	2.14
*16XB20F61M	[88.9]	[101.6]	[88.9]	[54.3]	--	[54.3]	[25.4]	[41.3]	[66.7]	[44.5]	[7.9]	[16.7]	[84.9]	[93.6]	[81.0]	[54.3]
D16XA20F62	4.00	4.50	4.00	1.50	2.64	2.50	1.13	2.13	3.13	2.00	0.38	0.88	3.63	4.13	3.63	2.64
D16XA20F62M	[101.6]	[114.3]	[101.6]	[38.1]	[67.1]	[63.5]	[28.6]	[54.0]	[79.4]	[50.8]	[9.5]	[22.2]	[92.1]	[104.8]	[92.1]	[67.1]
D16XB20F62	4.00	4.50	4.00	2.64	--	2.50	1.50	2.13	3.13	2.00	0.38	0.88	3.63	4.13	3.63	2.64
D16XB20F62M	[101.6]	[114.3]	[101.6]	[67.1]	--	[63.5]	[38.1]	[54.0]	[79.4]	[50.8]	[9.5]	[22.2]	[92.1]	[104.8]	[92.1]	[67.1]

PART NO.	Q	R	S	T	U pilot port size	V valve mounting	W flange mounting	X manifold mounting
*16XA16F61	3.19	2.14	1.63	1.50	SAE #4	0.31 UNC x 0.88 DP	0.38 UNC x 0.88 DP	0.31 UNC x 0.63 DP
*16XA16F61M	[81.0]	[54.3]	[41.3]	[38.1]	ISO 6149 M10	M8 ISO 6H x [22] DP	M10 ISO 6H x [22] DP	M8 ISO 6H x [16] DP
*16XB16F61	3.19	2.14	1.63	1.50	SAE #4	0.31 UNC x 0.88 DP	0.38 UNC x 0.88 DP	0.31 UNC x 0.63 DP
*16XB16F61M	[81.0]	[54.3]	[41.3]	[38.1]	ISO 6149 M10	M8 ISO 6H x [22] DP	M10 ISO 6H x [22] DP	M8 ISO 6H x [16] DP
D16XA16F62	3.19	2.00	1.88	1.75	SAE #4	0.31 UNC x 0.88 DP	0.44 UNC x 1.12 DP	0.31 UNC x 0.63 DP
D16XA16F62M	[81.0]	[50.8]	[47.6]	[44.5]	ISO 6149 M10	M8 ISO 6H x [22] DP	M10 ISO 6H x [28] DP	M8 ISO 6H x [16] DP
D16XB16F62	3.19	2.00	1.88	1.75	SAE #4	0.31 UNC x 0.88 DP	0.44 UNC x 1.12 DP	0.31 UNC x 0.63 DP
D16XB16F62M	[81.0]	[50.8]	[47.6]	[44.5]	ISO 6149 M10	M8 ISO 6H x [22] DP	M10 ISO 6H x [28] DP	M8 ISO 6H x [16] DP
*16XA20F61	3.19	2.14	1.67	1.75	SAE #4	0.31 UNC x 0.88 DP	0.44 UNC x 1.12 DP	0.31 UNC x 0.63 DP
*16XA20F61M	[81.0]	[54.3]	[42.5]	[44.5]	ISO 6149 M10	M8 ISO 6H x [22] DP	M10 ISO 6H x [28] DP	M8 ISO 6H x [16] DP
*16XB20F61	3.19	2.14	1.67	1.75	SAE #4	0.31 UNC x 0.88 DP	0.44 UNC x 1.12 DP	0.31 UNC x 0.63 DP
*16XB20F61M	[81.0]	[54.3]	[42.5]	[44.5]	ISO 6149 M10	M8 ISO 6H x [22] DP	M10 ISO 6H x [28] DP	M8 ISO 6H x [16] DP
D16XA20F62	3.63	2.47	2.13	2.00	SAE #4	0.31 UNC x 0.88 DP	0.50 UNC x 1.19 DP	0.38 UNC x 1.00 DP
D16XA20F62M	[92.1]	[62.7]	[54.0]	[50.8]	ISO 6149 M10	M8 ISO 6H x [22] DP	M12 ISO 6H x [30] DP	M10 ISO 6H x [25] DP
D16XB20F62	3.63	2.47	2.13	2.00	SAE #4	0.31 UNC x 0.88 DP	0.50 UNC x 1.19 DP	0.38 UNC x 1.00 DP
D16XB20F62M	[92.1]	[62.7]	[54.0]	[50.8]	ISO 6149 M10	M8 ISO 6H x [22] DP	M12 ISO 6H x [30] DP	M10 ISO 6H x [25] DP

Standard Manifolds

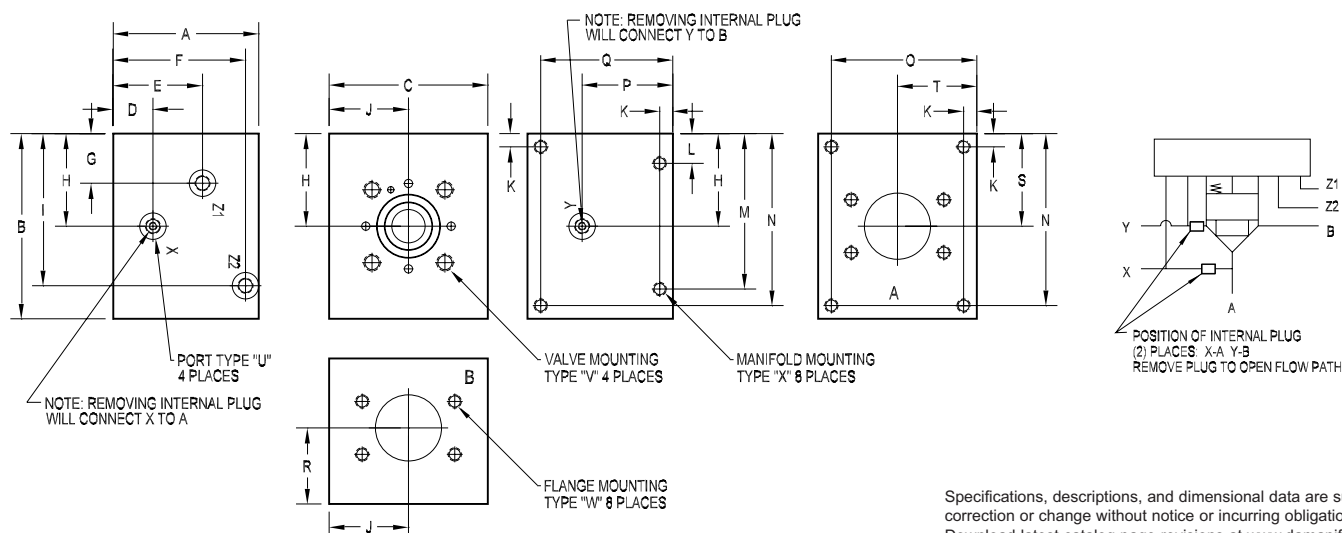


Valve Adaptors

Subplates

Servo Valve Subplates

25mm Body • XA Circuit

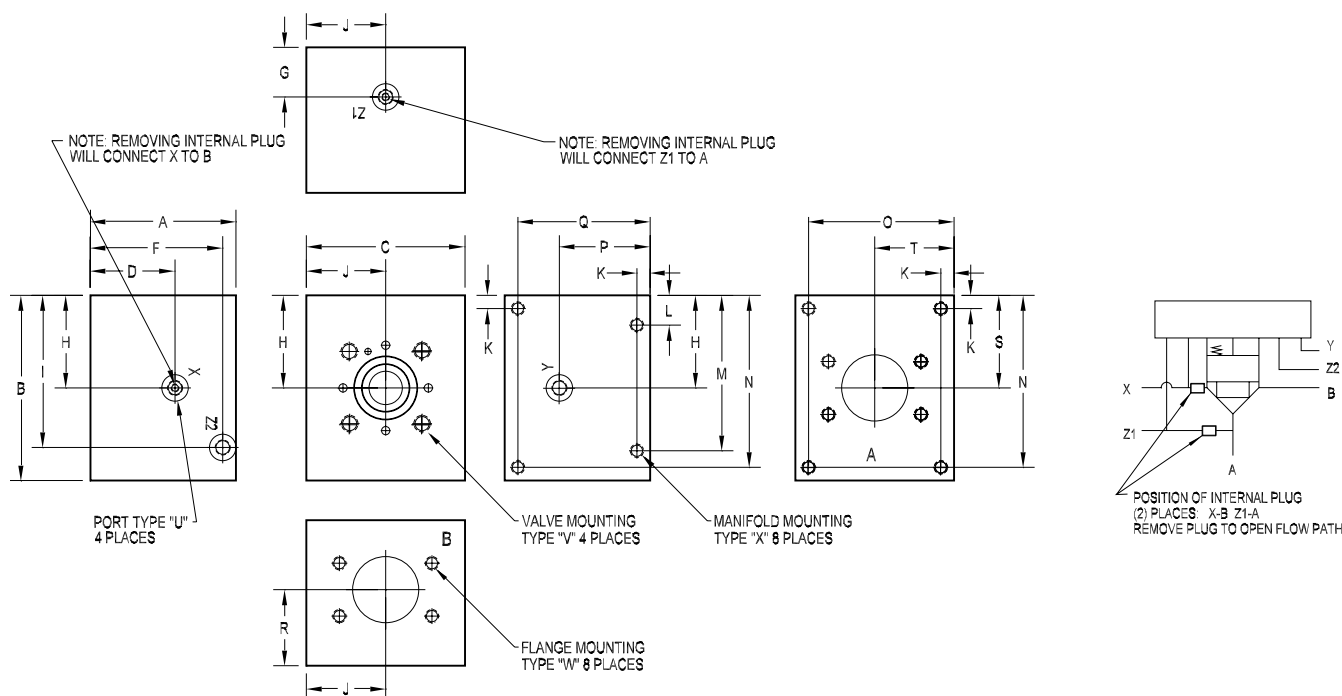


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PART NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
*25XA20F61	4.00	5.00	4.50	0.75	2.13	3.50	0.53	1.88	3.75	2.25	0.38	0.88	4.13	4.63	4.13	2.25
*25XA20F61M	[101.6]	[127.0]	[114.3]	[19.1]	[54.0]	[88.9]	[13.5]	[47.6]	[95.3]	[57.2]	[9.5]	[22.2]	[104.8]	[117.5]	[104.8]	[57.2]
*25XB20F61	4.00	5.00	4.50	2.25	--	3.50	0.75	1.88	3.75	2.25	0.38	0.88	4.13	4.63	4.13	2.25
*25XB20F61M	[101.6]	[127.0]	[114.3]	[57.2]	--	[88.9]	[19.1]	[47.6]	[95.3]	[57.2]	[9.5]	[22.2]	[104.8]	[117.5]	[104.8]	[57.2]
D25XA20F62	4.00	5.00	4.50	0.75	2.13	3.50	0.72	2.06	3.94	2.25	0.38	0.88	4.13	4.63	4.13	2.25
D25XA20F62M	[101.6]	[127.0]	[114.3]	[19.1]	[54.0]	[88.9]	[18.3]	[52.4]	[100.0]	[57.2]	[9.5]	[22.2]	[104.8]	[117.5]	[104.8]	[57.2]
D25XB20F62	4.00	5.00	4.50	2.25	--	3.50	0.75	2.06	3.94	2.25	0.38	0.88	4.13	4.63	4.13	2.25
D25XB20F62M	[101.6]	[127.0]	[114.3]	[57.2]	--	[88.9]	[19.1]	[52.4]	[100.0]	[57.2]	[9.5]	[22.2]	[104.8]	[117.5]	[104.8]	[57.2]
*25XA32F61	5.00	6.00	4.50	1.75	3.13	4.50	1.53	2.88	4.75	2.25	0.50	1.13	4.88	5.50	4.00	3.25
*25XA32F61M	[127.0]	[152.4]	[114.3]	[44.5]	[79.4]	[114.3]	[38.9]	[73.0]	[120.7]	[57.2]	[12.7]	[28.6]	[123.8]	[139.7]	[101.6]	[82.6]
*25XB32F61	5.00	6.00	4.50	3.25	--	4.50	1.75	2.88	4.75	2.25	0.50	1.13	4.88	5.50	4.00	3.25
*25XB32F61M	[127.0]	[152.4]	[114.3]	[82.6]	--	[114.3]	[44.5]	[73.0]	[120.7]	[57.2]	[12.7]	[28.6]	[123.8]	[139.7]	[101.6]	[82.6]
D25XA32F62	5.00	6.50	6.00	1.75	3.13	4.50	1.78	3.13	5.00	3.00	0.50	1.13	5.38	6.00	5.50	3.25
D25XA32F62M	[127.0]	[165.1]	[152.4]	[44.5]	[79.4]	[114.3]	[45.2]	[79.4]	[127.0]	[76.2]	[12.7]	[28.6]	[136.5]	[152.4]	[139.7]	[82.6]
D25XB32F62	5.00	6.50	6.00	3.25	--	4.50	1.75	3.13	5.00	3.00	0.50	1.13	5.38	6.00	5.50	3.25
D25XB32F62M	[101.6]	[165.1]	[152.4]	[82.6]	--	[114.3]	[44.5]	[79.4]	[127.0]	[76.2]	[12.7]	[28.6]	[136.5]	[152.4]	[139.7]	[82.6]

PART NO.	Q	R	S	T	U pilot port size	V valve mounting	W flange mounting	X manifold mounting
*25XA20F61	3.63	2.25	1.88	2.25	SAE #6	0.50 UNC x 1.19 DP	0.44 UNC x 1.12 DP	0.38 UNC x 1.00 DP
*25XA20F61M	[92.1]	[57.2]	[47.6]	[57.2]	ISO 6149 M14	M12 ISO 6H x 30 DP	M10 ISO 6H x 28 DP	M10 ISO 6H x 25 DP
*25XB20F61	3.63	2.25	1.88	2.25	SAE #6	0.50 UNC x 1.19 DP	0.44 UNC x 1.12 DP	0.38 UNC x 1.00 DP
*25XB20F61M	[92.1]	[57.2]	[47.6]	[57.2]	ISO 6149 M14	M12 ISO 6H x 30 DP	M10 ISO 6H x 28 DP	M10 ISO 6H x 25 DP
D25XA20F62	3.63	2.25	2.06	2.25	SAE #6	0.50 UNC x 1.19 DP	0.50 UNC x 1.19 DP	0.38 UNC x 1.00 DP
D25XA20F62M	[92.1]	[57.2]	[52.4]	[57.2]	ISO 6149 M14	M12 ISO 6H x 30 DP	M12 ISO 6H x 30 DP	M10 ISO 6H x 25 DP
D25XB20F62	3.63	2.25	2.06	2.25	SAE #6	0.50 UNC x 1.19 DP	0.50 UNC x 1.19 DP	0.38 UNC x 1.00 DP
D25XB20F62M	[92.1]	[57.2]	[52.4]	[57.2]	ISO 6149 M14	M12 ISO 6H x 30 DP	M12 ISO 6H x 30 DP	M10 ISO 6H x 25 DP
*25XA32F61	4.50	2.75	2.88	2.25	SAE #6	0.50 UNC x 1.19 DP	0.50 UNC x 1.19 DP	0.50 UNC x 1.00 DP
*25XA32F61M	[114.3]	[69.9]	[73.0]	[57.2]	ISO 6149 M14	M12 ISO 6H x 30 DP	M12 ISO 6H x 30 DP	M12 ISO 6H x 25 DP
*25XB32F61	4.50	2.75	2.88	2.25	SAE #6	0.50 UNC x 1.19 DP	0.50 UNC x 1.19 DP	0.50 UNC x 1.00 DP
*25XB32F61M	[114.3]	[69.9]	[73.0]	[57.2]	ISO 6149 M14	M12 ISO 6H x 30 DP	M12 ISO 6H x 30 DP	M12 ISO 6H x 25 DP
D25XA32F62	4.50	2.75	3.13	3.00	SAE #6	0.50 UNC x 1.19 DP	0.75 UNC x 1.62 DP	0.50 UNC x 1.00 DP
D25XA32F62M	[114.3]	[69.9]	[79.4]	[76.2]	ISO 6149 M14	M12 ISO 6H x 30 DP	M20 ISO 6H x 41 DP	M12 ISO 6H x 25 DP
D25XB32F62	4.50	2.75	3.13	3.00	SAE #6	0.50 UNC x 1.19 DP	0.75 UNC x 1.62 DP	0.50 UNC x 1.00 DP
D25XB32F62M	[114.3]	[69.9]	[79.4]	[76.2]	ISO 6149 M14	M12 ISO 6H x 30 DP	M20 ISO 6H x 41 DP	M12 ISO 6H x 25 DP

25mm Body • XB Circuit

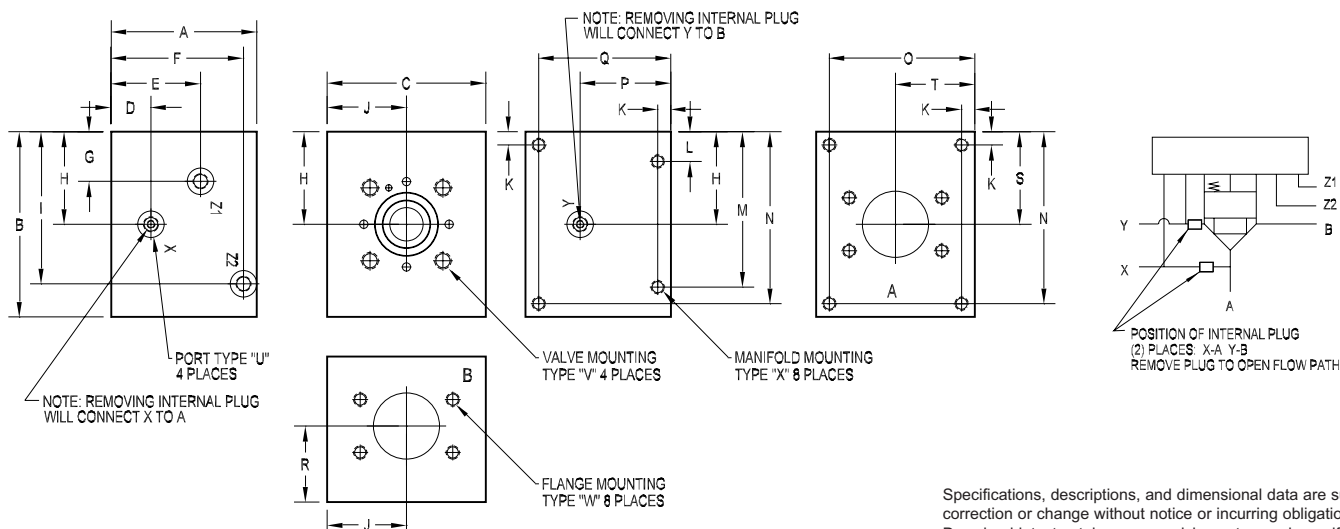


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Ordering Information

Material		Valve Cavity		Pilot Circuit		A & B Port Size		Flange Rating		Thread Type																							
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr></table> † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa			<table><tr><th colspan="2">Pilot Circuit</th></tr><tr><td>XA</td><td>X common to A Y common to B</td></tr><tr><td>XB</td><td>X common to B Z1 common to A</td></tr></table> These connections are furnished plugged (external pilot ports). Remove plugs for internal pilot ports. See circuit diagram.		Pilot Circuit		XA	X common to A Y common to B	XB	X common to B Z1 common to A			<table><tr><th colspan="2">Flange Rating</th></tr><tr><td colspan="2">Aluminum or Ductile</td></tr><tr><td>61</td><td>ISO 6162 - 2.5 to 35 MPa SAE code 61</td></tr><tr><td colspan="2">Ductile only</td></tr><tr><td>62</td><td>ISO 6162 - 40 MPa series SAE code 62</td></tr></table>		Flange Rating		Aluminum or Ductile		61	ISO 6162 - 2.5 to 35 MPa SAE code 61	Ductile only		62	ISO 6162 - 40 MPa series SAE code 62		
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<table><tr><th colspan="2">Valve Cavity</th></tr><tr><td>25</td><td>DIN 24342 - 25mm ISO 7368-08-03 (Standard currently under revision) NFPA T3.5.45-BB-08-2-A</td></tr></table>		Valve Cavity		25	DIN 24342 - 25mm ISO 7368-08-03 (Standard currently under revision) NFPA T3.5.45-BB-08-2-A			<table><tr><th colspan="2">A & B Port Size</th></tr><tr><td>20F</td><td>ISO 6162 - DN32 Split Flange SAE Size 20 (1.25") Flange</td></tr><tr><td>32F</td><td>ISO 6162 - DN51 Split Flange SAE Size 32 (2.00") Flange</td></tr></table>		A & B Port Size		20F	ISO 6162 - DN32 Split Flange SAE Size 20 (1.25") Flange	32F	ISO 6162 - DN51 Split Flange SAE Size 32 (2.00") Flange			<table><tr><th colspan="2">Thread Type</th></tr><tr><td>Omit</td><td>Inch threads / ports</td></tr><tr><td>M</td><td>Metric threads / ports</td></tr></table>		Thread Type		Omit	Inch threads / ports	M	Metric threads / ports								
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32mm Body • XA Circuit

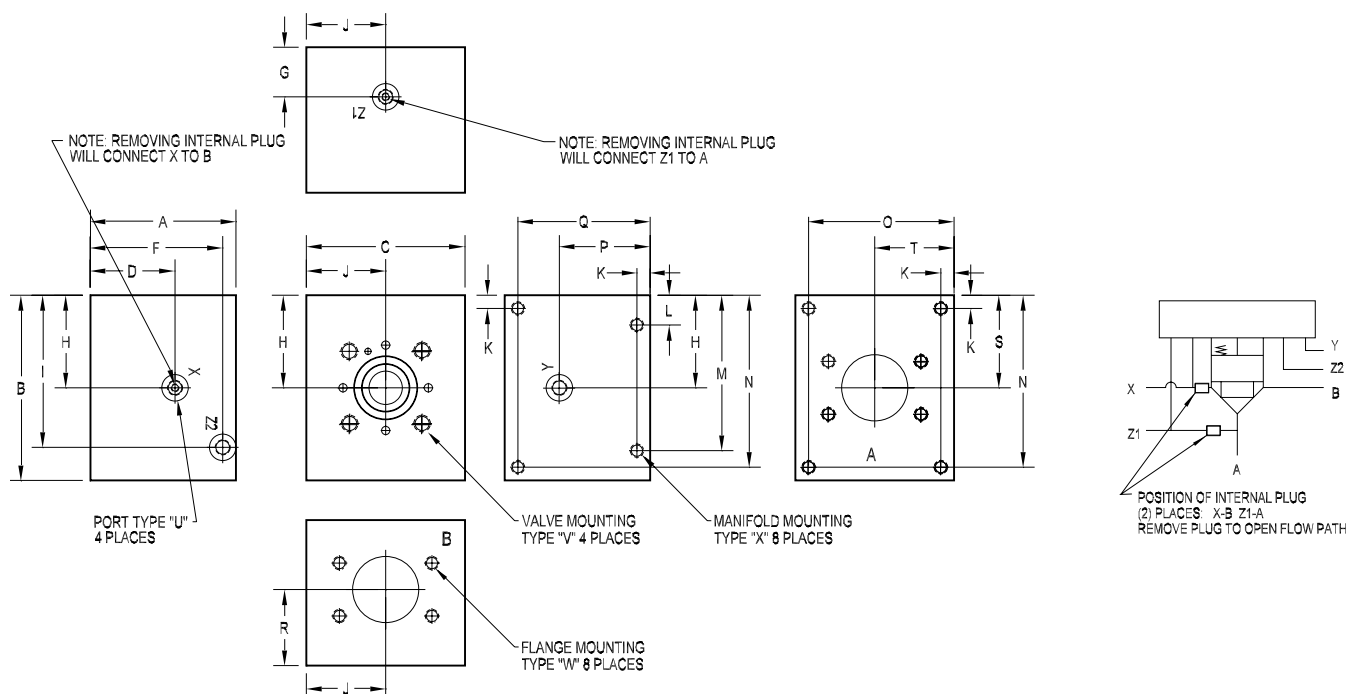


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PART NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
*32XA24F61	5.50	6.00	6.00	1.50	3.38	5.00	0.88	2.50	4.75	3.00	0.50	1.13	4.88	5.50	5.50	3.43
*32XA24F61M	[139.7]	[152.4]	[152.4]	[38.1]	[85.7]	[127.0]	[22.2]	[63.5]	[120.7]	[76.2]	[12.7]	[28.6]	[123.8]	[139.7]	[139.7]	[87.2]
*32XB24F61	5.50	6.00	6.00	3.43	--	5.00	1.50	2.50	4.75	3.00	0.50	1.13	4.88	5.50	5.50	3.43
*32XB24F61M	[139.7]	[152.4]	[152.4]	[87.2]	--	[127.0]	[38.1]	[63.5]	[120.7]	[76.2]	[12.7]	[28.6]	[123.8]	[139.7]	[139.7]	[87.2]
D32XA24F62	5.50	6.00	6.00	1.50	3.38	5.00	0.88	2.50	4.75	3.00	0.50	1.13	4.88	5.50	5.50	3.43
D32XA24F62M	[139.7]	[152.4]	[152.4]	[38.1]	[85.7]	[127.0]	[22.2]	[63.5]	[120.7]	[76.2]	[12.7]	[28.6]	[123.8]	[139.7]	[139.7]	[87.2]
D32XB24F62	5.50	6.00	6.00	3.43	--	5.00	1.50	2.50	4.75	3.00	0.50	1.13	4.88	5.50	5.50	3.43
D32XB24F62M	[139.7]	[152.4]	[152.4]	[87.2]	--	[127.0]	[38.1]	[63.5]	[120.7]	[76.2]	[12.7]	[28.6]	[123.8]	[139.7]	[139.7]	[87.2]
*32XA40F61	5.50	7.00	6.00	1.50	3.38	5.00	1.88	3.50	5.75	3.00	0.50	1.13	5.88	6.50	5.50	3.43
*32XA40F61M	[139.7]	[177.8]	[152.4]	[38.1]	[85.7]	[127.0]	[47.6]	[88.9]	[146.1]	[76.2]	[12.7]	[28.6]	[149.2]	[165.1]	[139.7]	[87.2]
*32XB40F61	5.50	7.00	6.00	3.43	--	5.00	1.50	3.50	5.75	3.00	0.50	1.13	5.88	6.50	5.50	3.43
*32XB40F61M	[139.7]	[177.8]	[152.4]	[87.2]	--	[127.0]	[38.1]	[88.9]	[146.1]	[76.2]	[12.7]	[28.6]	[149.2]	[165.1]	[139.7]	[87.2]
D32XA40F62	6.50	8.00	7.50	2.50	4.38	6.00	2.38	4.00	6.25	3.75	0.63	1.38	6.63	7.38	6.88	4.43
D32XA40F62M	[165.1]	[203.2]	[190.5]	[63.5]	[111.1]	[152.4]	[60.3]	[101.6]	[158.8]	[95.3]	[15.9]	[34.9]	[168.3]	[187.3]	[174.6]	[112.6]
D32XB40F62	6.50	8.00	7.50	4.43	--	6.00	2.50	4.00	6.25	3.75	0.63	1.38	6.63	7.38	6.88	4.43
D32XB40F62M	[165.1]	[203.2]	[190.5]	[112.6]	--	[152.4]	[63.5]	[101.6]	[158.8]	[95.3]	[15.9]	[34.9]	[168.3]	[187.3]	[174.6]	[112.6]

PART NO.	Q	R	S	T	U pilot port size	V valve mounting	W flange mounting	X manifold mounting
*32XA24F61	5.00	3.43	2.50	3.00	SAE #6	0.63 UNC x 1.44 DP	0.50 UNC x 1.19 DP	0.50 UNC x 1.00 DP
*32XA24F61M	[127.0]	[87.2]	[63.5]	[76.2]	ISO 6149 M14	M16 ISO 6H x 36 DP	M12 ISO 6H x 30 DP	M12 ISO 6H x 25 DP
*32XB24F61	5.00	3.43	2.50	3.00	SAE #6	0.63 UNC x 1.44 DP	0.50 UNC x 1.19 DP	0.50 UNC x 1.00 DP
*32XB24F61M	[127.0]	[87.2]	[63.5]	[76.2]	ISO 6149 M14	M16 ISO 6H x 36 DP	M12 ISO 6H x 30 DP	M12 ISO 6H x 25 DP
D32XA24F62	5.00	3.43	2.50	3.00	SAE #6	0.63 UNC x 1.44 DP	0.63 UNC x 1.44 DP	0.50 UNC x 1.00 DP
D32XA24F62M	[127.0]	[87.2]	[63.5]	[76.2]	ISO 6149 M14	M16 ISO 6H x 36 DP	M16 ISO 6H x 36 DP	M12 ISO 6H x 25 DP
D32XB24F62	5.00	3.43	2.50	3.00	SAE #6	0.63 UNC x 1.44 DP	0.63 UNC x 1.44 DP	0.50 UNC x 1.00 DP
D32XB24F62M	[127.0]	[87.2]	[63.5]	[76.2]	ISO 6149 M14	M16 ISO 6H x 36 DP	M16 ISO 6H x 36 DP	M12 ISO 6H x 25 DP
*32XA40F61	5.00	2.88	3.50	3.00	SAE #6	0.63 UNC x 1.44 DP	0.50 UNC x 1.19 DP	0.50 UNC x 1.00 DP
*32XA40F61M	[127.0]	[73.0]	[88.9]	[76.2]	ISO 6149 M14	M16 ISO 6H x 36 DP	M12 ISO 6H x 30 DP	M12 ISO 6H x 25 DP
*32XB40F61	5.00	2.88	3.50	3.00	SAE #6	0.63 UNC x 1.44 DP	0.50 UNC x 1.19 DP	0.50 UNC x 1.00 DP
*32XB40F61M	[127.0]	[73.0]	[88.9]	[76.2]	ISO 6149 M14	M16 ISO 6H x 36 DP	M12 ISO 6H x 30 DP	M12 ISO 6H x 25 DP
D32XA40F62	5.88	3.38	4.00	3.75	SAE #6	0.63 UNC x 1.44 DP	0.88 UNC x 1.88 DP	0.63 UNC x 1.44 DP
D32XA40F62M	[149.2]	[85.7]	[101.6]	[95.3]	ISO 6149 M14	M16 ISO 6H x 36 DP	M22 ISO 6H x 48 DP	M16 ISO 6H x 36 DP
D32XB40F62	5.88	3.38	4.00	3.75	SAE #6	0.63 UNC x 1.44 DP	0.88 UNC x 1.88 DP	0.63 UNC x 1.44 DP
D32XB40F62M	[149.2]	[85.7]	[101.6]	[95.3]	ISO 6149 M14	M16 ISO 6H x 36 DP	M22 ISO 6H x 48 DP	M16 ISO 6H x 36 DP

32mm Body • XB Circuit

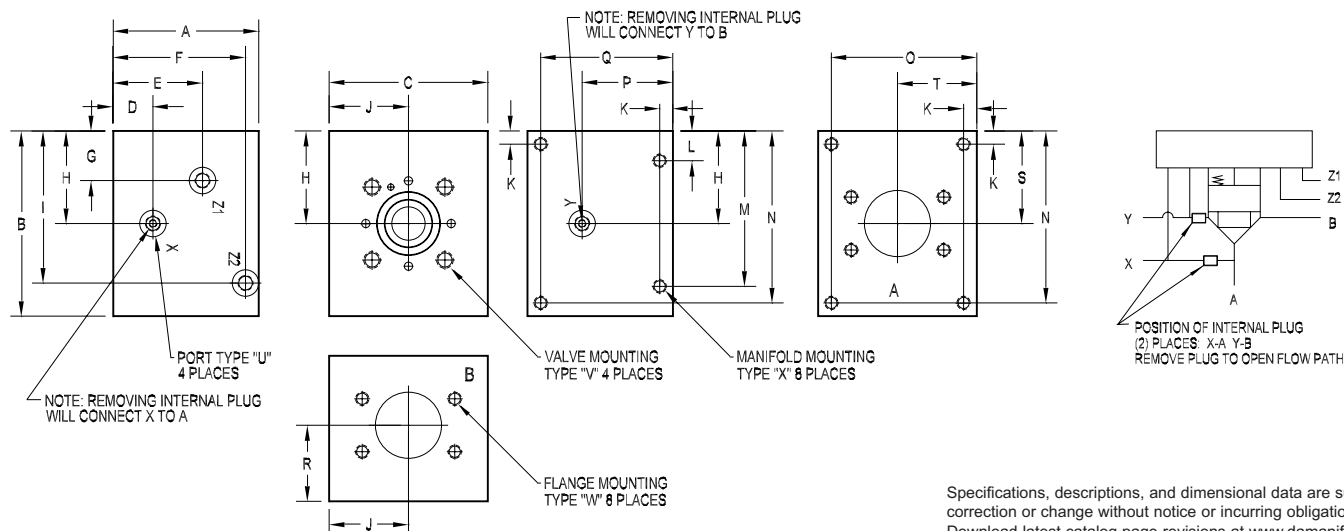


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Ordering Information

Material		Valve Cavity		Pilot Circuit		A & B Port Size		Flange Rating		Thread Type	
Material A Aluminum - 6061-T6 3000† psi • 20.7 MPa D Ductile Iron - D4512 5000† psi • 34.5 MPa † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.				Pilot Circuit XA X common to A Y common to B XB X common to B Z1 common to A These connections are furnished plugged (external pilot ports). Remove plugs for internal pilot ports. See circuit diagram.				Flange Rating Aluminum or Ductile 61 ISO 6162 - 2.5 to 35 MPa SAE code 61 Ductile only 62 ISO 6162 - 40 MPa series SAE code 62			
		Valve Cavity 32 DIN 24342 - 32mm ISO 7368-09-05 (Standard currently under revision) NFPA T3.5.45-BC-09-2-A				A & B Port Size 24F ISO 6162 - DN38 Split Flange SAE Size 24 (1.50") Flange 40F ISO 6162 - DN64 Split Flange SAE Size 40 (2.50") Flange				Thread Type Omit Inch threads / ports M Metric threads / ports	

40mm Body • XA Circuit

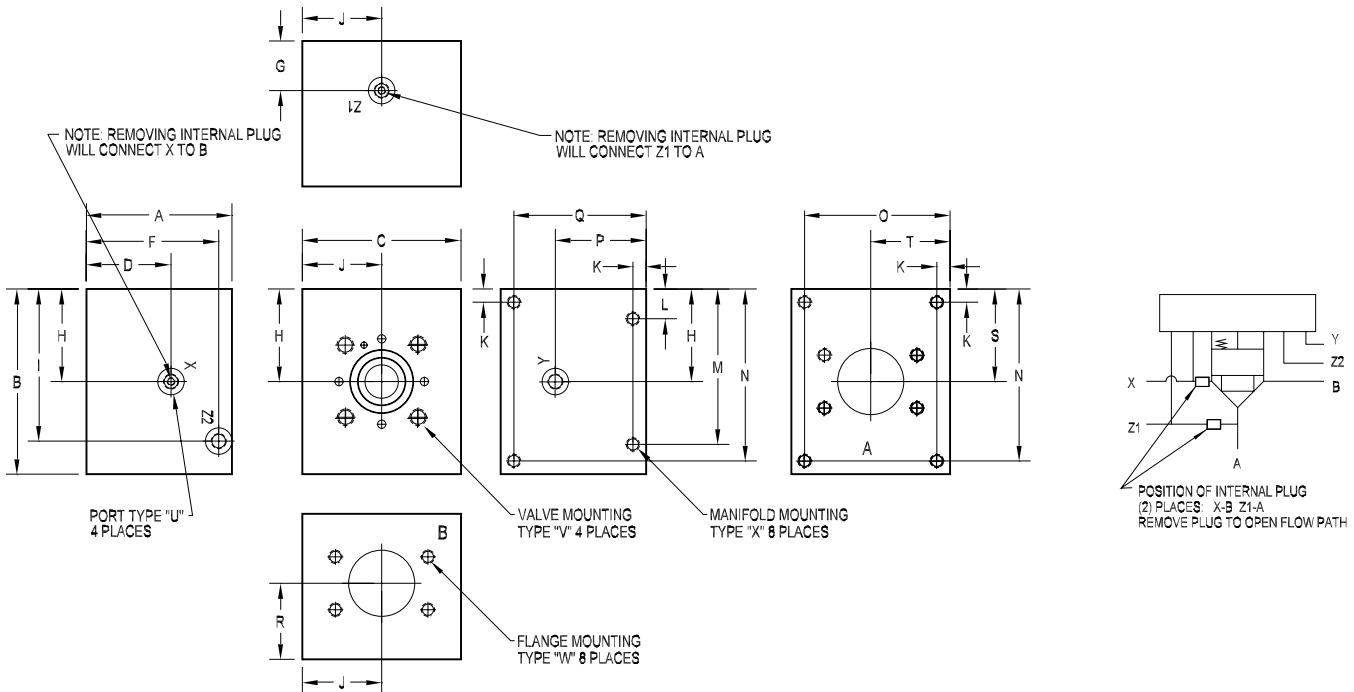


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PART NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
*40XA32F61	6.00	7.00	6.00	1.25	3.50	5.50	1.28	3.25	6.00	3.00	0.50	1.13	5.88	6.50	5.50	3.46
*40XA32F61M	[152.4]	[177.8]	[152.4]	[31.8]	[88.9]	[139.7]	[32.5]	[82.6]	[152.4]	[76.2]	[12.7]	[28.6]	[149.2]	[165.1]	[139.7]	[87.9]
*40XB32F61	6.00	7.00	6.00	3.46	--	5.50	1.25	3.25	6.00	3.00	0.50	1.13	5.88	6.50	5.50	3.46
*40XB32F61M	[152.4]	[177.8]	[152.4]	[87.9]	--	[139.7]	[31.8]	[82.6]	[152.4]	[76.2]	[12.7]	[28.6]	[149.2]	[165.1]	[139.7]	[87.9]
D40XA32F62	6.00	7.00	6.00	1.25	3.50	5.50	1.16	3.13	5.88	3.00	0.50	1.13	5.88	6.50	5.50	3.46
D40XA32F62M	[152.4]	[177.8]	[152.4]	[31.8]	[88.9]	[139.7]	[29.4]	[79.8]	[149.2]	[76.2]	[12.7]	[28.6]	[149.2]	[165.1]	[139.7]	[87.9]
D40XB32F62	6.00	7.00	6.00	3.46	--	5.50	1.25	3.13	5.88	3.00	0.50	1.13	5.88	6.50	5.50	3.46
D40XB32F62M	[152.4]	[177.8]	[152.4]	[87.9]	--	[139.7]	[31.8]	[79.8]	[149.2]	[76.2]	[12.7]	[28.6]	[149.2]	[165.1]	[139.7]	[87.9]
*40XA48F61	6.00	7.50	6.00	1.25	3.50	5.50	1.78	3.75	6.50	3.00	0.50	1.13	6.38	7.00	5.50	3.46
*40XA48F61M	[152.4]	[190.5]	[152.4]	[31.8]	[88.9]	[139.7]	[45.2]	[95.3]	[165.1]	[76.2]	[12.7]	[28.6]	[161.9]	[177.8]	[139.7]	[87.9]
*40XB48F61	6.00	7.50	6.00	3.46	--	5.50	1.25	3.75	6.50	3.00	0.50	1.13	6.38	7.00	5.50	3.46
*40XB48F61M	[152.4]	[190.5]	[152.4]	[87.9]	--	[139.7]	[31.8]	[95.3]	[165.1]	[76.2]	[12.7]	[28.6]	[161.9]	[177.8]	[139.7]	[87.9]
D40XA48F62	7.50	9.50	9.00	2.75	5.00	7.00	2.78	4.75	7.50	4.50	0.75	1.63	7.88	8.75	8.25	4.96
D40XA48F62M	[190.5]	[241.3]	[228.6]	[69.9]	[127.0]	[177.8]	[70.6]	[120.7]	[190.5]	[114.3]	[19.1]	[41.3]	[200.0]	[222.3]	[209.6]	[126.0]
D40XB48F62	7.50	9.50	9.00	4.96	--	7.00	2.75	4.75	7.50	4.50	0.75	1.63	7.88	8.75	8.25	4.96
D40XB48F62M	[190.5]	[241.3]	[228.6]	[126.0]	--	[177.8]	[69.9]	[120.7]	[190.5]	[114.3]	[19.1]	[41.3]	[200.0]	[222.3]	[209.6]	[126.0]

PART NO.	Q	R	S	T	U pilot port size	V valve mounting	W flange mounting	X manifold mounting
*40XA32F61	5.50	3.46	3.25	3.00	SAE #6	0.75 UNC x 1.62 DP	0.50 UNC x 1.19 DP	0.50 UNC x 1.00 DP
*40XA32F61M	[139.7]	[87.9]	[82.6]	[76.2]	ISO 6149 M14	M20 ISO 6H x 41 DP	M12 ISO 6H x 30 DP	M12 ISO 6H x 25 DP
*40XB32F61	5.50	3.46	3.25	3.00	SAE #6	0.75 UNC x 1.62 DP	0.50 UNC x 1.19 DP	0.50 UNC x 1.00 DP
*40XB32F61M	[139.7]	[87.9]	[82.6]	[76.2]	ISO 6149 M14	M20 ISO 6H x 41 DP	M12 ISO 6H x 30 DP	M12 ISO 6H x 25 DP
D40XA32F62	5.50	3.46	3.13	3.00	SAE #6	0.75 UNC x 1.62 DP	0.75 UNC x 1.50 DP	0.50 UNC x 1.00 DP
D40XA32F62M	[139.7]	[87.9]	[79.4]	[76.2]	ISO 6149 M14	M20 ISO 6H x 41 DP	M20 ISO 6H x 38 DP	M12 ISO 6H x 25 DP
D40XB32F62	5.50	3.46	3.13	3.00	SAE #6	0.75 UNC x 1.62 DP	0.75 UNC x 1.50 DP	0.50 UNC x 1.00 DP
D40XB32F62M	[139.7]	[87.9]	[79.4]	[76.2]	ISO 6149 M14	M20 ISO 6H x 41 DP	M20 ISO 6H x 38 DP	M12 ISO 6H x 25 DP
*40XA48F61	5.50	3.00	3.75	3.00	SAE #6	0.75 UNC x 1.62 DP	0.63 UNC x 1.44 DP	0.50 UNC x 1.00 DP
*40XA48F61M	[139.7]	[76.2]	[95.3]	[76.2]	ISO 6149 M14	M20 ISO 6H x 41 DP	M16 ISO 6H x 36 DP	M12 ISO 6H x 25 DP
*40XB48F61	5.50	3.00	3.75	3.00	SAE #6	0.75 UNC x 1.62 DP	0.63 UNC x 1.44 DP	0.50 UNC x 1.00 DP
*40XB48F61M	[139.7]	[76.2]	[95.3]	[76.2]	ISO 6149 M14	M20 ISO 6H x 41 DP	M16 ISO 6H x 36 DP	M12 ISO 6H x 25 DP
D40XA48F62	6.75	3.75	4.75	4.50	SAE #6	0.75 UNC x 1.62 DP	1.13 UNC x 2.50 DP	0.75 UNC x 1.62 DP
D40XA48F62M	[171.5]	[95.3]	[120.7]	[114.3]	ISO 6149 M14	M20 ISO 6H x 41 DP	M27 ISO 6H x 63 DP	M20 ISO 6H x 41 DP
D40XB48F62	6.75	3.75	4.75	4.50	SAE #6	0.75 UNC x 1.62 DP	1.13 UNC x 2.50 DP	0.75 UNC x 1.62 DP
D40XB48F62M	[171.5]	[95.3]	[120.7]	[114.3]	ISO 6149 M14	M20 ISO 6H x 41 DP	M27 ISO 6H x 63 DP	M20 ISO 6H x 41 DP

40mm Body • XB Circuit

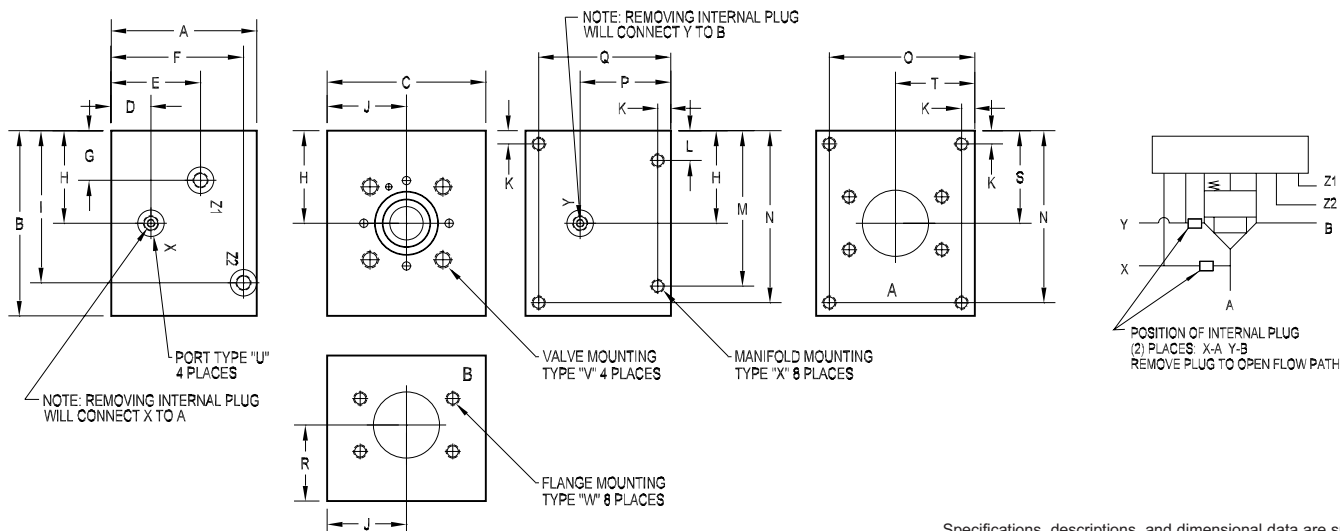


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Ordering Information

Material		Valve Cavity		Pilot Circuit		A & B Port Size		Flange Rating		Thread Type																							
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa			<table><tr><th colspan="2">Pilot Circuit</th></tr><tr><td>XA</td><td>X common to A Y common to B</td></tr><tr><td>XB</td><td>X common to B Z1 common to A</td></tr></table>		Pilot Circuit		XA	X common to A Y common to B	XB	X common to B Z1 common to A			<table><tr><th colspan="2">Flange Rating</th></tr><tr><td colspan="2">Aluminum or Ductile</td></tr><tr><td>61</td><td>ISO 6162 - 2.5 to 35 MPa SAE code 61</td></tr><tr><td colspan="2">Ductile only</td></tr><tr><td>62</td><td>ISO 6162 - 40 MPa series SAE code 62</td></tr></table>		Flange Rating		Aluminum or Ductile		61	ISO 6162 - 2.5 to 35 MPa SAE code 61	Ductile only		62	ISO 6162 - 40 MPa series SAE code 62		
Material																																	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																
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62	ISO 6162 - 40 MPa series SAE code 62																																
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.				These connections are furnished plugged (external pilot ports). Remove plugs for internal pilot ports. See circuit diagram.																													
		<table><tr><th colspan="2">Valve Cavity</th></tr><tr><td>40</td><td>DIN 24342 - 40mm ISO 7368-10-07 (Standard currently under revision) NFPA T3.5.45-BD-10-2-A</td></tr></table>		Valve Cavity		40	DIN 24342 - 40mm ISO 7368-10-07 (Standard currently under revision) NFPA T3.5.45-BD-10-2-A			<table><tr><th colspan="2">A & B Port Size</th></tr><tr><td>32F</td><td>ISO 6162 - DN51 Split Flange SAE Size 32 (2.00") Flange</td></tr><tr><td>48F</td><td>ISO 6162 - DN76 Split Flange SAE Size 48 (3.00") Flange</td></tr></table>		A & B Port Size		32F	ISO 6162 - DN51 Split Flange SAE Size 32 (2.00") Flange	48F	ISO 6162 - DN76 Split Flange SAE Size 48 (3.00") Flange					<table><tr><th colspan="2">Thread Type</th></tr><tr><td>Omit</td><td>Inch threads / ports</td></tr><tr><td>M</td><td>Metric threads / ports</td></tr></table>		Thread Type		Omit	Inch threads / ports	M	Metric threads / ports				
Valve Cavity																																	
40	DIN 24342 - 40mm ISO 7368-10-07 (Standard currently under revision) NFPA T3.5.45-BD-10-2-A																																
A & B Port Size																																	
32F	ISO 6162 - DN51 Split Flange SAE Size 32 (2.00") Flange																																
48F	ISO 6162 - DN76 Split Flange SAE Size 48 (3.00") Flange																																
Thread Type																																	
Omit	Inch threads / ports																																
M	Metric threads / ports																																

50mm Body • XA Circuit

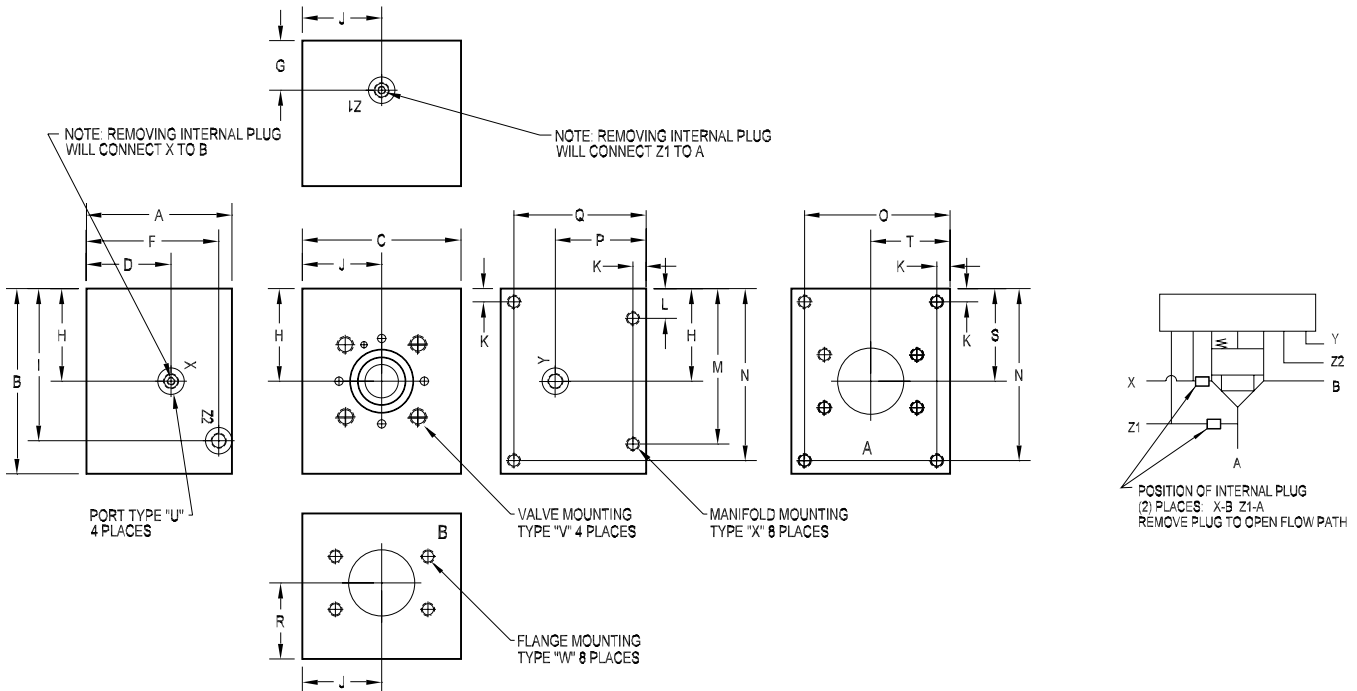


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PART NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
50XA40F61	7.00	7.00	6.00	1.50	4.50	6.50	0.75	3.25	6.13	3.00	0.50	1.13	5.88	6.50	5.50	4.15
*50XA40F61M	[177.8]	[177.8]	[152.4]	[38.1]	[114.3]	[165.1]	[19.1]	[82.6]	[155.6]	[76.2]	[12.7]	[28.6]	[149.2]	[165.1]	[139.7]	[105.3]
50XB40F61	7.00	7.00	6.00	4.15	--	6.50	1.50	3.25	6.13	3.00	0.50	1.13	5.88	6.50	5.50	4.15
*50XB40F61M	[177.8]	[177.8]	[152.4]	[105.3]	--	[165.1]	[38.1]	[82.6]	[155.6]	[76.2]	[12.7]	[28.6]	[149.2]	[165.1]	[139.7]	[105.3]
D50XA40F62*	7.00	8.00	7.00	1.50	4.50	6.50	1.25	3.75	6.62	3.50	0.50	1.13	6.88	7.50	6.50	4.15
D50XA40F62M	[177.8]	[203.2]	[177.8]	[38.1]	[114.3]	[165.1]	[31.8]	[95.3]	[168.3]	[88.9]	[12.7]	[28.6]	[174.6]	[190.5]	[165.1]	[105.3]
D50XB40F62*	7.00	8.00	7.00	4.15	--	6.50	1.50	3.75	6.62	3.50	0.50	1.13	6.88	7.50	6.50	4.15
D50XB40F62M	[177.8]	[203.2]	[177.8]	[105.3]	--	[165.1]	[38.1]	[95.3]	[168.3]	[88.9]	[12.7]	[28.6]	[174.6]	[190.5]	[165.1]	[105.3]
50XA64F61	7.00	7.25	6.50	1.50	4.15	6.50	1.19	3.50	6.38	3.25	0.50	1.13	6.13	6.75	6.00	4.15
*50XA64F61M	[177.8]	[184.2]	[165.1]	[38.1]	[105.4]	[165.1]	[30.2]	[88.9]	[161.9]	[82.6]	[12.7]	[28.6]	[155.6]	[171.5]	[152.4]	[105.3]
50XB64F61	7.00	7.25	6.50	4.15	--	6.50	1.50	3.50	6.38	3.25	0.50	1.13	6.13	6.75	6.00	4.15
*50XB64F61M	[177.8]	[184.2]	[165.1]	[105.3]	--	[165.1]	[38.1]	[88.9]	[161.9]	[82.6]	[12.7]	[28.6]	[155.6]	[171.5]	[152.4]	[105.3]

PART NO.	Q	R	S	T	U pilot port size	V valve mounting	W flange mounting	X manifold mounting
*50XA40F61V *50XA40F61R *50XA40F61M	6.50 [165.1]	4.15 [105.3]	3.25 [82.6]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP 0.88 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
*50XB40F61V *50XB40F61R *50XB40F61M	6.50 [165.1]	4.15 [105.3]	3.25 [82.6]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP 0.88 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
D50XA40F62V D50XA40F62R D50XA40F62M	6.50 [165.1]	4.00 [101.6]	3.75 [95.3]	3.50 [88.9]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP 0.88 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.88 UNC x 1.75 DP M22 ISO 6H x 45 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
D50XB40F62V D50XB40F62R D50XB40F62M	6.50 [165.1]	4.00 [101.6]	3.75 [95.3]	3.50 [88.9]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP 0.88 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.88 UNC x 1.75 DP M22 ISO 6H x 45 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
*50XA64F61V *50XA64F61R *50XA64F61M	6.50 [165.1]	3.88 [98.4]	3.50 [88.9]	3.25 [82.6]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP 0.88 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP
*50XB64F61V *50XB64F61R *50XB64F61M	6.50 [165.1]	3.88 [98.4]	3.50 [88.9]	3.25 [82.6]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP 0.88 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP

50mm Body • XB Circuit



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Ordering Information

Material	Valve Cavity	Pilot Circuit	A & B Port Size	Flange Rating	Thread Type
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Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.	

Pilot Circuit	
XA	X common to A Y common to B
XB	X common to B Z1 common to A

These connections are furnished plugged (external pilot ports). Remove plugs for internal pilot ports. See circuit diagram.

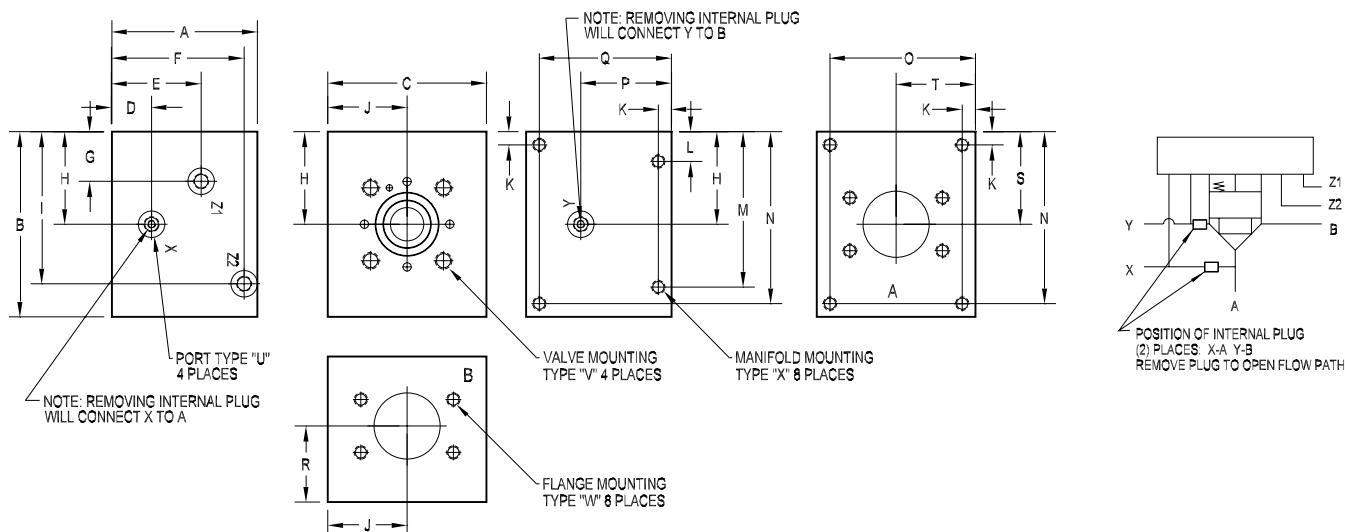
Flange Rating	
Aluminum or Ductile	
61	ISO 6162 - 2.5 to 35 MPa SAE code 61
Port size 40F, Ductile only	
62	ISO 6162 - 40 MPa series SAE code 62

Valve Cavity	
50	DIN 24342 - 50mm ISO 7368-11-09 (Standard currently under revision) NFFA T3.5.45-BE-11-2-A

A & B Port Size	
40F	ISO 6162 - DN64 Split Flange SAE Size 40 (2.50") Flange
64F	ISO 6162 - DN102 Split Flange SAE Size 64 (4.00") Flange

Thread Type	
V	Inch threads / ports Valve mtg. = 0.75-10
R	Inch threads / ports Valve mtg. = 0.875-9
M	Metric threads / ports Valve mtg. = M20-2.5

63mm Body • XA Circuit

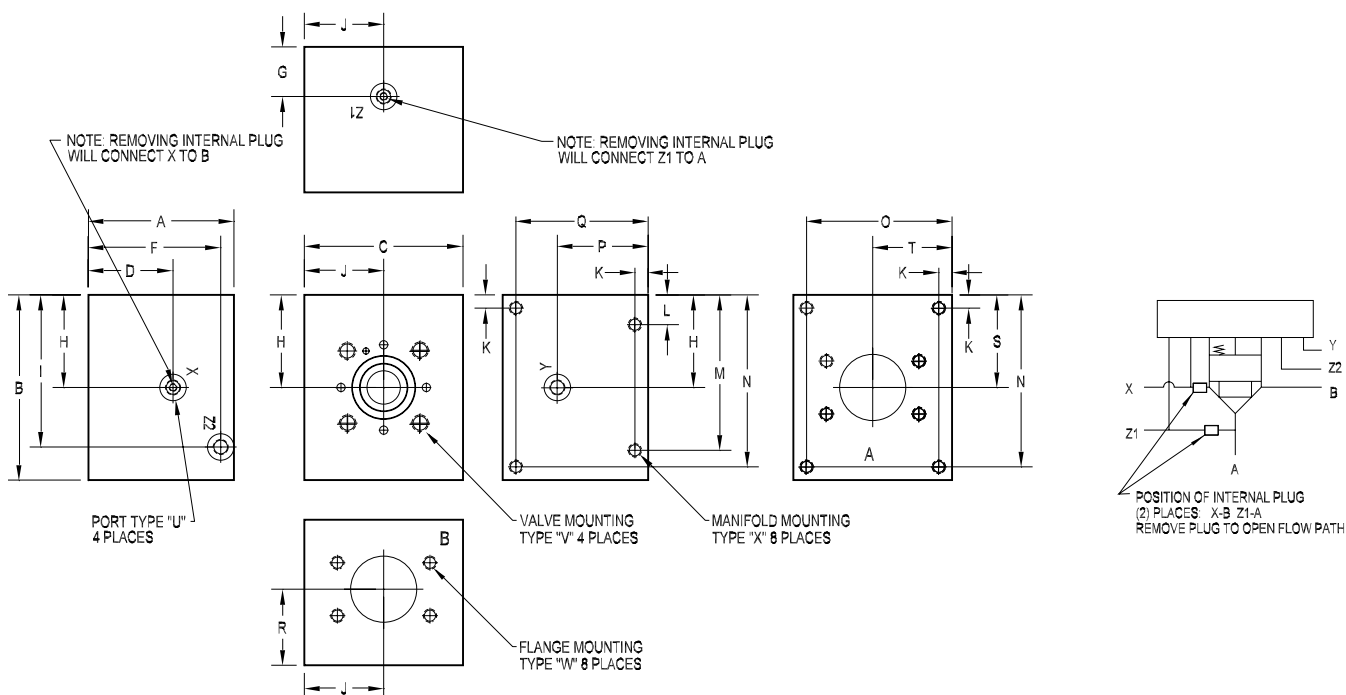


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PART NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
*63XA48F61	8.00	9.00	8.00	1.00	4.24	7.25	1.29	4.25	8.00	4.00	0.63	1.38	7.63	8.38	7.38	4.24
*63XA48F61M	[203.2]	[228.6]	[203.2]	[25.4]	[107.7]	[184.2]	[32.8]	[108.0]	[203.2]	[101.6]	[15.9]	[34.9]	[193.7]	[212.7]	[187.3]	[107.7]
*63XB48F61	8.00	9.00	8.00	4.24	--	7.25	1.25	4.25	8.00	4.00	0.63	1.38	7.63	8.38	7.38	4.24
*63XB48F61M	[203.2]	[228.6]	[203.2]	[107.7]	--	[184.2]	[31.8]	[108.0]	[203.2]	[101.6]	[15.9]	[34.9]	[193.7]	[212.7]	[187.3]	[107.7]
D63XA48F62	9.00	10.50	9.00	2.25	5.00	8.25	1.77	4.75	8.50	4.50	0.63	1.38	9.13	9.88	8.38	5.24
D63XA48F62M	[228.6]	[266.7]	[228.6]	[57.2]	[127.0]	[209.6]	[45.0]	[120.7]	[215.9]	[114.3]	[15.9]	[34.9]	[231.8]	[250.8]	[212.7]	[133.1]
D63XB48F62	9.00	10.50	9.00	5.24	--	8.25	2.25	4.75	8.50	4.50	0.63	1.38	9.13	9.88	8.38	5.24
D63XB48F62M	[228.6]	[266.7]	[228.6]	[133.1]	--	[209.6]	[57.2]	[120.7]	[215.9]	[114.3]	[15.9]	[34.9]	[231.8]	[250.8]	[212.7]	[133.1]
*63XA80F61	8.00	9.00	8.00	1.38	4.24	7.25	1.29	4.25	8.00	4.00	0.63	1.50	7.50	8.38	7.38	4.24
*63XA80F61M	[203.2]	[228.6]	[203.2]	[34.9]	[107.7]	[184.2]	[32.8]	[108.0]	[203.2]	[101.6]	[15.9]	[38.1]	[190.5]	[212.7]	[187.3]	[107.7]
*63XB80F61	8.00	9.00	8.00	4.24	--	7.25	1.38	4.25	8.00	4.00	0.63	1.50	7.50	8.38	7.38	4.24
*63XB80F61M	[203.2]	[228.6]	[203.2]	[107.7]	--	[184.2]	[34.9]	[108.0]	[203.2]	[101.6]	[15.9]	[38.1]	[190.5]	[212.7]	[187.3]	[107.7]

PART NO.	Q	R	S	T	U pilot port size	V valve mounting	W flange mounting	X manifold mounting
*63XA48F61	7.38	4.24	4.25	4.00	SAE #08	1.25 UNC x 2.75 DP	0.63 UNC x 1.31 DP	0.63 UNC x 1.25 DP
*63XA48F61M	[187.3]	[107.7]	[108.0]	[101.6]	ISO 6149 M18	M30 ISO 6H x 70 DP	M16 ISO 6H x 33 DP	M16 ISO 6H x 32 DP
*63XB48F61	7.38	4.24	4.25	4.00	SAE #08	1.25 UNC x 2.75 DP	0.63 UNC x 1.31 DP	0.63 UNC x 1.25 DP
*63XB48F61M	[187.3]	[107.7]	[108.0]	[101.6]	ISO 6149 M18	M30 ISO 6H x 70 DP	M16 ISO 6H x 33 DP	M16 ISO 6H x 32 DP
D63XA48F62	8.38	5.24	4.75	4.50	SAE #08	1.25 UNC x 2.75 DP	1.13 UNC x 2.25 DP	0.63 UNC x 1.25 DP
D63XA48F62M	[212.7]	[133.1]	[120.7]	[114.3]	ISO 6149 M18	M30 ISO 6H x 70 DP	M27 ISO 6H x 57 DP	M16 ISO 6H x 32 DP
D63XB48F62	8.38	5.24	4.75	4.50	SAE #08	1.25 UNC x 2.75 DP	1.13 UNC x 2.25 DP	0.63 UNC x 1.25 DP
D63XB48F62M	[212.7]	[133.1]	[120.7]	[114.3]	ISO 6149 M18	M30 ISO 6H x 70 DP	M27 ISO 6H x 57 DP	M16 ISO 6H x 32 DP
*63XA80F61	7.38	4.24	4.25	4.00	SAE #08	1.25 UNC x 2.75 DP	0.63 UNC x 1.44 DP	0.63 UNC x 1.44 DP
*63XA80F61M	[187.3]	[107.7]	[108.0]	[101.6]	ISO 6149 M18	M30 ISO 6H x 70 DP	M16 ISO 6H x 36 DP	M16 ISO 6H x 36 DP
*63XB80F61	7.38	4.24	4.25	4.00	SAE #08	1.25 UNC x 2.75 DP	0.63 UNC x 1.44 DP	0.63 UNC x 1.44 DP
*63XB80F61M	[187.3]	[107.7]	[108.0]	[101.6]	ISO 6149 M18	M30 ISO 6H x 70 DP	M16 ISO 6H x 36 DP	M16 ISO 6H x 36 DP

63mm Body • XB Circuit



Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material		Valve Cavity		Pilot Circuit		A & B Port Size		Flange Rating		Thread Type																																							
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr></table> † Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	<table><tr><th colspan="2">Valve Cavity</th></tr><tr><td>63</td><td>DIN 24342 - 63mm ISO 7368-12-11 (Standard currently under revision) NFPA T3.5.45-BF-12-2-A</td></tr></table>		Valve Cavity		63	DIN 24342 - 63mm ISO 7368-12-11 (Standard currently under revision) NFPA T3.5.45-BF-12-2-A	<table><tr><th colspan="2">Pilot Circuit</th></tr><tr><td>XA</td><td>X common to A Y common to B</td></tr><tr><td>XB</td><td>X common to B Z1 common to A</td></tr></table> These connections are furnished plugged (external pilot ports). Remove plugs for internal pilot ports. See circuit diagram.		Pilot Circuit		XA	X common to A Y common to B	XB	X common to B Z1 common to A	<table><tr><th colspan="2">A & B Port Size</th></tr><tr><td>48F</td><td>ISO 6162 - DN76 Split Flange SAE Size 48 (3.00") Flange</td></tr><tr><td>80F</td><td>ISO 6162 - DN127 Split Flange SAE Size 80 (5.00") Flange</td></tr></table>		A & B Port Size		48F	ISO 6162 - DN76 Split Flange SAE Size 48 (3.00") Flange	80F	ISO 6162 - DN127 Split Flange SAE Size 80 (5.00") Flange	<table><tr><th colspan="2">Flange Rating</th></tr><tr><td></td><td>Aluminum or Ductile</td></tr><tr><td>61</td><td>ISO 6162 - 2.5 to 35 MPa SAE code 61</td></tr><tr><td></td><td>Port size 48F, Ductile only</td></tr><tr><td>62</td><td>ISO 6162 - 40 MPa series SAE code 62</td></tr></table>		Flange Rating			Aluminum or Ductile	61	ISO 6162 - 2.5 to 35 MPa SAE code 61		Port size 48F, Ductile only	62	ISO 6162 - 40 MPa series SAE code 62	<table><tr><th colspan="2">Thread Type</th></tr><tr><td>Omit</td><td>Inch threads / ports</td></tr><tr><td>M</td><td>Metric threads / ports</td></tr></table>		Thread Type		Omit	Inch threads / ports	M	Metric threads / ports
Material																																																	
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Hydraulic Valve Manifolds Better System Design Begins with a Manifold.

HEADER AND JUNCTION BLOCKS

Header Manifolds - 0° Design	Page 180-181
Header Manifolds - 90° Design	Page 182-183
Header Manifolds - 180° Design	Page 184-185
Junction Manifolds - 90° Design	Page 186-187
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Header Manifolds - 0° Design

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Header Manifolds - 90° Design

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Header Manifolds - 180° Design

Page 184-185

Junction Manifolds - 90° Design

Page 186-187

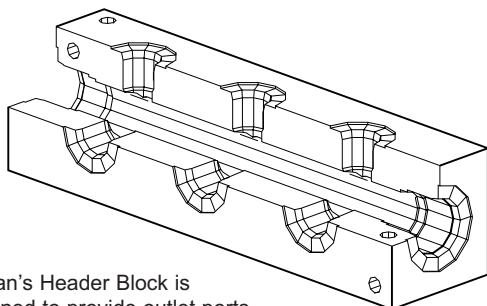
Junction Manifolds - 180° Design

Page 188-189

Junction Manifolds - 270° Design

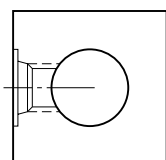
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Header Block

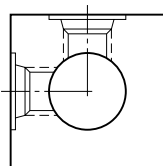


Daman's Header Block is designed to provide outlet ports that are common to one header (thru) port. The header port is always one size larger than the outlet ports.

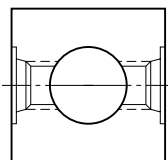
Available Header Block Configurations



0° design
See pages 180-181



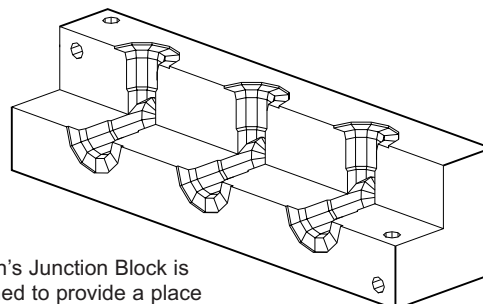
90° design
See pages 182-183



180° design
See pages 184-185

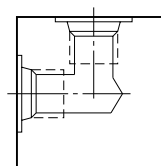
Header Block Mounting Hardware	Port Size	Mounting bolts
	01P	(2) or (3) UNC #10-24 x 1.50 long SHCS
	02P	(2) or (3) UNC 0.25-20 x 2.00 long SHCS
	04*, 06S	(2) or (3) UNC 0.25-20 x 2.25 long SHCS
	06P, 08P	(2) or (3) UNC 0.25-20 x 2.50 long SHCS
	08S	(2) or (3) UNC 0.25-20 x 2.75 long SHCS
	12*	(2) or (3) UNC 0.31-18 x 3.00 long SHCS
	16*	(2) or (3) UNC 0.38-16 x 3.50 long SHCS
	20*	(2) or (3) UNC 0.50-13 x 4.50 long SHCS
	24P	(2) or (3) UNC 0.50-13 x 5.00 long SHCS
	24S	(2) or (3) UNC 0.50-13 x 5.50 long SHCS

Junction Block

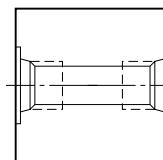


Daman's Junction Block is designed to provide a place to join piping and change direction or split / combine with other lines.

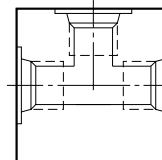
Available Junction Block Configurations



90° design
See pages 186-187



180° design
See pages 188-189

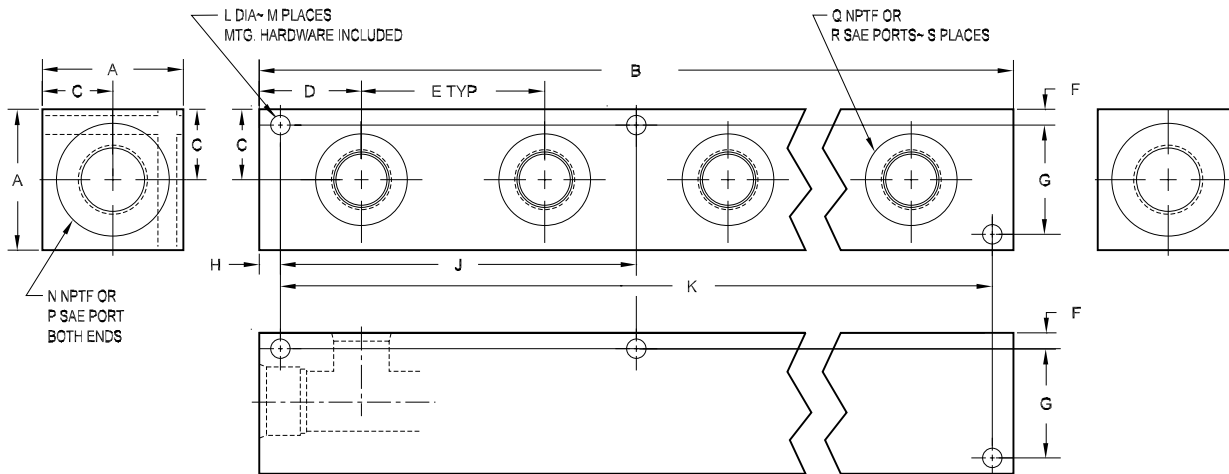


270° design
See pages 190-191

Junction Block Mounting Hardware	Port Size	Mounting bolts
	04*	(2) or (3) UNC 0.25-20 x 2.25 long SHCS
	06*	(2) or (3) UNC 0.25-20 x 2.25 long SHCS
	08*	(2) or (3) UNC 0.25-20 x 2.50 long SHCS
	12*	(2) or (3) UNC 0.31-18 x 3.00 long SHCS
	16*	(2) or (3) UNC 0.38-16 x 3.50 long SHCS
	20*	(2) or (3) UNC 0.50-13 x 4.50 long SHCS
	24*	(2) or (3) UNC 0.50-13 x 5.00 long SHCS

Header Manifolds - 0° Design

Header block mounting hardware is supplied.
See page 179 for itemized list.



Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

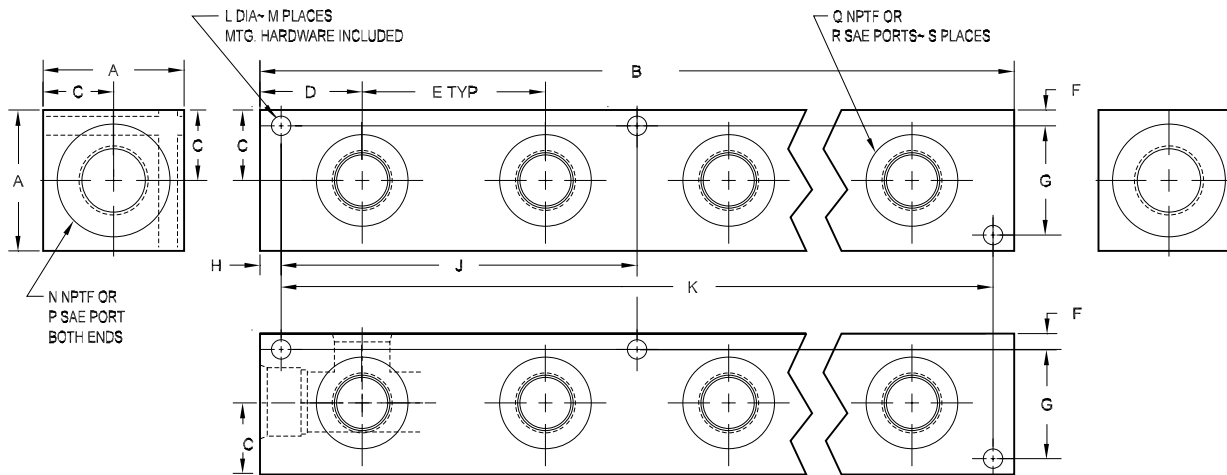
Material		Product Type	Side Port Layout	No. of Stations	Side Port Threads																																																			
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Product Type</th></tr><tr><td>H</td><td>Header Block</td></tr></table>	Product Type		H	Header Block	<table><tr><th colspan="2">Side Port Layout</th></tr><tr><td>000</td><td>Ports out one side only</td></tr></table>	Side Port Layout		000	Ports out one side only	<table><tr><th colspan="2">No. of Stations</th></tr><tr><td>02</td><td rowspan="6">Check chart on next page to verify station-port size combinations and stock status</td></tr><tr><td>03</td></tr><tr><td>04</td></tr><tr><td>06</td></tr><tr><td>08</td></tr><tr><td>10</td></tr></table>	No. of Stations		02	Check chart on next page to verify station-port size combinations and stock status	03	04	06	08	10	<table><tr><th colspan="4">Side Port Threads</th></tr><tr><td>01P</td><td rowspan="8">NPTF ANSI B1.20.3</td><td>04S</td><td rowspan="6">SAE ISO 11926 SAE 1926</td></tr><tr><td>02P</td><td>06S</td></tr><tr><td>04P</td><td>08S</td></tr><tr><td>06P</td><td>12S</td></tr><tr><td>08P</td><td>16S</td></tr><tr><td>12P</td><td>20S</td></tr><tr><td>16P</td><td>24S</td></tr><tr><td>20P</td><td colspan="2">Check chart on next page to verify station-port size combinations</td></tr><tr><td>24P</td><td colspan="2"></td></tr></table>	Side Port Threads				01P	NPTF ANSI B1.20.3	04S	SAE ISO 11926 SAE 1926	02P	06S	04P	08S	06P	12S	08P	16S	12P	20S	16P	24S	20P	Check chart on next page to verify station-port size combinations		24P		
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20P		Check chart on next page to verify station-port size combinations																																																						
24P																																																								

Header Manifolds - 0° Design

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
*H0000401P	1.25	5.75 [146.1]	0.63	1.00	1.25	0.17	0.91	0.31	--	5.13 [130.2]	0.22	4					4
*H0000601P	[31.8]	8.25 [209.6]	[16.0]	[25.4]	[31.8]	[4.4]	[23.0]	[7.9]	3.81 [96.8]	7.63 [193.7]	[5.6]	6	1/8	--	1/16	--	6
*H0000801P		10.75 [273.1]							5.06 [128.6]	10.13 [257.2]		6					8
*H0001001P		13.25 [336.6]							6.31 [160.3]	12.63 [320.7]		6					10
*H0000302P	1.50	5.00 [127.0]	0.75	1.13	1.38	0.25	1.00	0.31	--	4.38 [111.3]	0.28	4					3
*H0000402P	[38.1]	6.38 [161.9]	[19.1]	[28.6]	[35.1]	[6.4]	[25.4]	[7.9]	--	5.75 [146.1]	[7.1]	4	1/4	--	1/8	--	4
*H0000602P		9.13 [231.8]							4.25 [108.0]	8.50 [215.9]		6					6
*H0000802P		11.88 [301.6]							5.63 [142.9]	11.25 [285.8]		6					8
*H0001002P		14.63 [371.5]							7.00 [177.8]	14.00 [355.6]		6					10
H0000304	1.75	5.63 [142.9]	0.88	1.06	1.75	0.25	1.25	0.31	--	5.00 [127.0]	0.28	4					3
H0000404	[44.5]	7.38 [187.3]	[22.2]	[27.0]	[44.5]	[6.4]	[31.8]	[7.9]	--	6.75 [171.5]	[7.1]	4	3/8	-6	1/4	-4	4
H0000604		10.88 [276.2]							5.13 [130.2]	10.25 [260.4]		6					6
H0000804		14.38 [365.1]							6.88 [174.6]	13.75 [349.3]		6					8
H0001004		17.88 [454.0]							8.63 [219.1]	17.25 [438.2]		6					10
*H0000206P	2.00	5.00 [127.0]	1.00	1.50	2.00	0.25	1.50	0.31	--	4.38 [111.1]	0.28	4					2
*H0000306P	[50.8]	7.00 [177.8]	[25.4]	[38.1]	[50.8]	[6.4]	[38.1]	[7.9]	--	6.38 [161.9]	[7.1]	4	1/2	-8	3/8	-6	3
*H0000406P		9.00 [228.6]							--	8.38 [212.7]		4					4
*H0000606P		13.00 [330.2]							6.19 [157.2]	12.38 [314.3]		6					6
*H0000806P		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6					8
*H0001006P		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6					10
*H0000206S	1.75	5.00 [127.0]	0.88	1.50	2.00	0.25	1.25	0.31	--	4.38 [111.1]	0.28	4					2
*H0000306S	[44.5]	7.00 [177.8]	[22.2]	[38.1]	[50.8]	[6.4]	[31.8]	[7.9]	--	6.38 [161.9]	[7.1]	4	1/2	-8	3/8	-6	3
*H0000406S		9.00 [228.6]							--	8.38 [212.7]		4					4
*H0000606S		13.00 [330.2]							6.19 [157.2]	12.38 [314.3]		6					6
*H0000806S		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6					8
*H0001006S		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6					10
*H0000208P	2.00	5.38 [136.5]	1.00	1.50	2.38	0.25	1.50	0.31	--	4.75 [120.7]	0.28	4					2
*H0000308P	[50.8]	7.75 [196.9]	[25.4]	[38.1]	[60.3]	[6.4]	[38.1]	[7.9]	--	7.13 [181.0]	[7.1]	4	3/4	-12	1/2	-8	3
*H0000408P		10.13 [257.2]							--	9.50 [241.3]		4					4
*H0000608P		14.88 [377.8]							7.13 [181.0]	14.25 [362.0]		6					6
*H0000808P		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6					8
*H0001008P		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6					10
*H0000208S	2.25	5.38 [136.5]	1.13	1.50	2.38	0.25	1.75	0.31	--	4.75 [120.7]	0.28	4					2
*H0000308S	[57.2]	7.75 [196.9]	[28.6]	[38.1]	[60.3]	[6.4]	[44.5]	[7.9]	--	7.13 [181.0]	[7.1]	4	3/4	-12	1/2	-8	3
*H0000408S		10.13 [257.2]							--	9.50 [241.3]		4					4
*H0000608S		14.88 [377.8]							7.13 [181.0]	14.25 [362.0]		6					6
*H0000808S		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6					8
*H0001008S		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6					10
H0000212	2.50	6.88 [174.6]	1.25	1.81	3.25	0.28	1.94	0.38	--	6.13 [155.6]	0.34	4					2
H0000312	[63.5]	10.13 [257.2]	[31.8]	[46.0]	[82.6]	[7.1]	[49.2]	[9.5]	--	9.38 [238.1]	[8.7]	4	1"	-16	3/4	-12	3
H0000412		13.38 [339.7]							--	12.63 [320.7]		4					4
H0000612		19.88 [504.8]							9.56 [242.9]	19.13 [485.8]		6					6
H0000812		26.38 [669.9]							12.81 [325.4]	25.63 [650.9]		6					8
H0001012		32.88 [835.0]							16.06 [408.0]	32.13 [816.0]		6					10
H0000216	3.00	7.75 [197.0]	1.50	2.00	3.75	0.34	2.31	0.38	--	7.00 [177.8]	0.41	4					2
H0000316	[76.2]	11.50 [292.1]	[38.1]	[50.8]	[95.3]	[8.7]	[58.7]	[9.5]	--	10.75 [273.1]	[10.3]	4	1-1/4	-20	1"	-16	3
H0000416		15.25 [387.4]							--	14.50 [368.3]		4					4
H0000616		22.75 [577.9]							11.00 [279.4]	22.00 [558.8]		6					6
H0000816		30.25 [768.4]							14.75 [374.7]	29.50 [749.3]		6					8
H0001016		37.75 [958.9]							18.50 [469.9]	37.00 [939.8]		6					10
H0000220	3.50	8.50 [215.9]	1.75	2.25	4.00	0.41	2.69	0.50	--	7.50 [190.5]	0.53	4					2
H0000320	[88.9]	12.50 [317.5]	[44.5]	[57.2]	[101.6]	[10.3]	[68.3]	[12.7]	--	11.50 [292.1]	[13.5]	4	1-1/2	-24	1-1/4	-20	3
H0000420		16.50 [419.1]							--	15.50 [393.7]		4					4
H0000620		24.50 [622.3]							11.75 [298.5]	23.50 [596.9]		6					6
H0000820		32.50 [825.5]							15.75 [400.1]	31.50 [800.1]		6					8
*H0000224P	4.00	10.00 [254.0]	2.00	2.50	5.00	0.41	3.19	0.50	--	9.00 [228.6]	0.53	4					2
*H0000324P	[101.6]	15.00 [381.0]	[50.8]	[63.5]	[127.0]	[10.3]	[81.0]	[12.7]	--	14.00 [355.6]	[13.5]	4	2"	-32	1-1/2	-24	3
*H0000424P		20.00 [508.0]							9.50 [241.3]	19.00 [482.6]		6					4
*H0000624P		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6					6
*H0000224S	4.50	10.00 [254.0]	2.25	2.50	5.00	0.41	3.69	0.50	--	9.00 [228.6]	0.53	4					2
*H0000324S	[114.3]	15.00 [381.0]	[57.2]	[63.5]	[127.0]	[10.3]	[93.7]	[12.7]	--	14.00 [355.6]	[13.5]	4	2"	-32	1-1/2	-24	3
*H0000424S		20.00 [508.0]							9.50 [241.3]	19.00 [482.6]		6					4
*H0000624S		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6					6

Header Manifolds - 90° Design

Header block mounting hardware is supplied.
See page 179 for itemized list.



Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

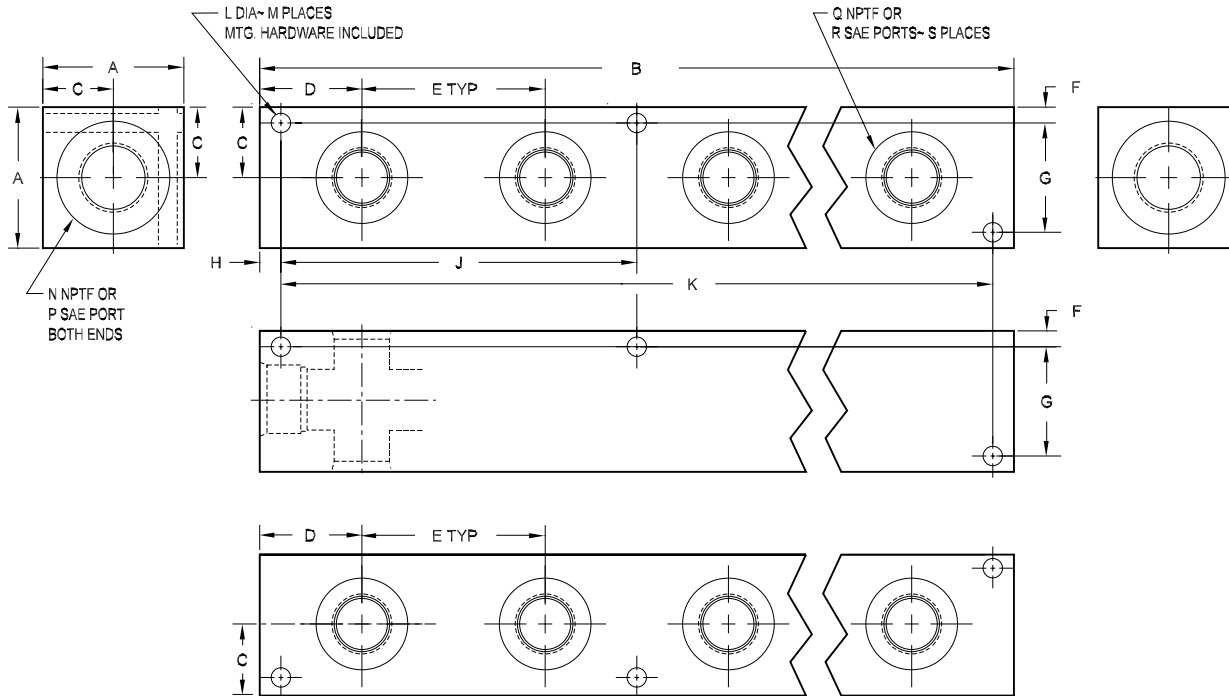
Material		Product Type	Side Port Layout	No. of Stations	Side Port Threads																																																			
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Product Type</th></tr><tr><td>H</td><td>Header Block</td></tr></table>	Product Type		H	Header Block	<table><tr><th colspan="2">Side Port Layout</th></tr><tr><td>090</td><td>Ports out two adjacent sides</td></tr></table>	Side Port Layout		090	Ports out two adjacent sides	<table><tr><th colspan="2">No. of Stations</th></tr><tr><td>02</td><td rowspan="6">Check chart on next page to verify station-port size combinations and stock status</td></tr><tr><td>03</td></tr><tr><td>04</td></tr><tr><td>06</td></tr><tr><td>08</td></tr><tr><td>10</td></tr></table>	No. of Stations		02	Check chart on next page to verify station-port size combinations and stock status	03	04	06	08	10	<table><tr><th colspan="4">Side Port Threads</th></tr><tr><td>04P</td><td rowspan="6">NPTF ANSI B1.20.3</td><td>04S</td><td rowspan="6">SAE ISO 11926 SAE 1926</td></tr><tr><td>06P</td><td>06S</td></tr><tr><td>08P</td><td>08S</td></tr><tr><td>12P</td><td>12S</td></tr><tr><td>16P</td><td>16S</td></tr><tr><td>20P</td><td>20S</td></tr><tr><td>24P</td><td></td><td>24S</td><td></td></tr><tr><td colspan="4">Check chart on next page to verify station-port size combinations</td></tr></table>	Side Port Threads				04P	NPTF ANSI B1.20.3	04S	SAE ISO 11926 SAE 1926	06P	06S	08P	08S	12P	12S	16P	16S	20P	20S	24P		24S		Check chart on next page to verify station-port size combinations			
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Header Manifolds - 90° Design

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
H0900304		5.63 [142.9]							--	5.00 [127.0]		4					6
H0900404	1.75	7.38 [187.3]							--	6.75 [171.5]	0.28	4					8
H0900604	[44.5]	10.88 [276.2]	0.88	1.06	1.75	0.25	1.25	0.31	5.13 [130.2]	10.25 [260.4]	[7.1]	6	3/8	-6	1/4	-4	12
H0900804		14.38 [365.1]							6.88 [174.6]	13.75 [349.3]		6					16
H0901004		17.88 [454.0]							8.63 [219.1]	17.25 [438.2]		6					20
*H0900206P		5.00 [127.0]							--	4.38 [111.1]		4					4
*H0900306P		7.00 [177.8]							--	6.38 [161.9]		4					6
*H0900406P	2.00	9.00 [228.6]	1.00	1.50	2.00	0.25	1.50	0.31	--	8.38 [212.7]	0.28	4	1/2	-8	3/8	-6	8
*H0900606P	[50.8]	13.00 [330.2]	[25.4]	[38.1]	[50.8]	[6.4]	[38.1]	[7.9]	6.19 [157.2]	12.38 [314.3]	[7.1]	6					12
*H0900806P		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6					16
*H0901006P		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6					20
*H0900206S		5.00 [127.0]							--	4.38 [111.1]		4					4
*H0900306S		7.00 [177.8]							--	6.38 [161.9]		4					6
*H0900406S	1.75	9.00 [228.6]	0.88	1.50	2.00	0.25	1.25	0.31	--	8.38 [212.7]	0.28	4	1/2	-8	3/8	-6	8
*H0900606S	[44.5]	13.00 [330.2]	[22.2]	[38.1]	[50.8]	[6.4]	[31.8]	[7.9]	6.19 [157.2]	12.38 [314.3]	[7.1]	6					12
*H0900806S		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6					16
*H0901006S		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6					20
*H0900208P		5.38 [136.5]							--	4.75 [120.7]		4					4
*H0900308P		7.75 [196.9]							--	7.13 [181.0]		4					6
*H0900408P	2.00	10.13 [257.2]	1.00	1.50	2.38	0.25	1.50	0.31	--	9.50 [241.3]	0.28	4	3/4	-12	1/2	-8	8
*H0900608P	[50.8]	14.88 [377.8]	[25.4]	[38.1]	[60.3]	[6.4]	[38.1]	[7.9]	7.13 [181.0]	14.25 [362.0]	[7.1]	6					12
*H0900808P		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6					16
*H0901008P		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6					20
*H0900208S		5.38 [136.5]							--	4.75 [120.7]		4					4
*H0900308S		7.75 [196.9]							--	7.13 [181.0]		4					6
*H0900408S	2.25	10.13 [257.2]	1.13	1.50	2.38	0.25	1.75	0.31	--	9.50 [241.3]	0.28	4	3/4	-12	1/2	-8	8
*H0900608S	[57.2]	14.88 [377.8]	[28.6]	[38.1]	[60.3]	[6.4]	[44.5]	[7.9]	7.13 [181.0]	14.25 [362.0]	[7.1]	6					12
*H0900808S		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6					16
*H0901008S		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6					20
H0900212		6.88 [174.6]							--	6.13 [155.6]		4					4
H0900312		10.13 [257.2]							--	9.38 [238.1]		4					6
H0900412	2.50	13.38 [339.7]	1.25	1.81	3.25	0.28	1.94	0.38	--	12.63 [320.7]	0.34	4	1"	-16	3/4	-12	8
H0900612	[63.5]	19.88 [504.8]	[31.8]	[46.0]	[82.6]	[7.1]	[49.2]	[9.5]	9.56 [242.9]	19.13 [485.8]	[8.7]	6					12
H0900812		26.38 [669.9]							12.81 [325.4]	25.63 [650.9]		6					16
H0901012		32.88 [835.0]							16.06 [408.0]	32.13 [816.0]		6					20
H0900216		7.75 [197.0]							--	7.00 [177.8]		4					4
H0900316		11.50 [292.1]							--	10.75 [273.1]		4					6
H0900416	3.00	15.25 [387.4]	1.50	2.00	3.75	0.34	2.31	0.38	--	14.50 [368.3]	0.41	4	1-1/4	-20	1"	-16	8
H0900616	[76.2]	22.75 [577.9]	[38.1]	[50.8]	[95.3]	[8.7]	[58.7]	[9.5]	11.00 [279.4]	22.00 [558.8]	[10.3]	6					12
H0900816		30.25 [768.4]							14.75 [374.7]	29.50 [749.3]		6					16
H0901016		37.75 [958.9]							18.50 [469.9]	37.00 [939.8]		6					20
H0900220		8.50 [215.9]							--	7.50 [190.5]		4					4
H0900320		12.50 [317.5]							--	11.50 [292.1]	0.53	4	1-1/2	-24	1-1/4	-20	6
H0900420	3.50	16.50 [419.1]	1.75	2.25	4.00	0.41	2.69	0.50	--	15.50 [393.7]	[13.5]	4					8
H0900620	[88.9]	24.50 [622.3]	[44.5]	[57.2]	[101.6]	[10.3]	[68.3]	[12.7]	11.75 [298.5]	23.50 [596.9]		6					12
H0900820		32.50 [825.5]							15.75 [400.1]	31.50 [800.1]		6					16
*H0900224P		10.00 [254.0]							--	9.00 [228.6]		4					4
*H0900324P	4.00	15.00 [381.0]	2.00	2.50	5.00	0.41	3.19	0.50	--	14.00 [355.6]	0.53	4	2"	-32	1-1/2	-24	6
*H0900424P	[101.6]	20.00 [508.0]	[50.8]	[63.5]	[127.0]	[10.3]	[81.0]	[12.7]	9.50 [241.3]	19.00 [482.6]	[13.5]	6					8
*H0900624P		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6					12
*H0900224S		10.00 [254.0]							--	9.00 [228.6]		4					4
*H0900324S	4.50	15.00 [381.0]	2.25	2.50	5.00	0.41	3.69	0.50	--	14.00 [355.6]	0.53	4	2"	-32	1-1/2	-24	6
*H0900424S	[114.3]	20.00 [508.0]	[57.2]	[63.5]	[127.0]	[10.3]	[93.7]	[12.7]	9.50 [241.3]	19.00 [482.6]	[13.5]	6					8
*H0900624S		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6					12

Header Manifolds - 180° Design

Header block mounting hardware is supplied.
See page 179 for itemized list.



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Ordering Information

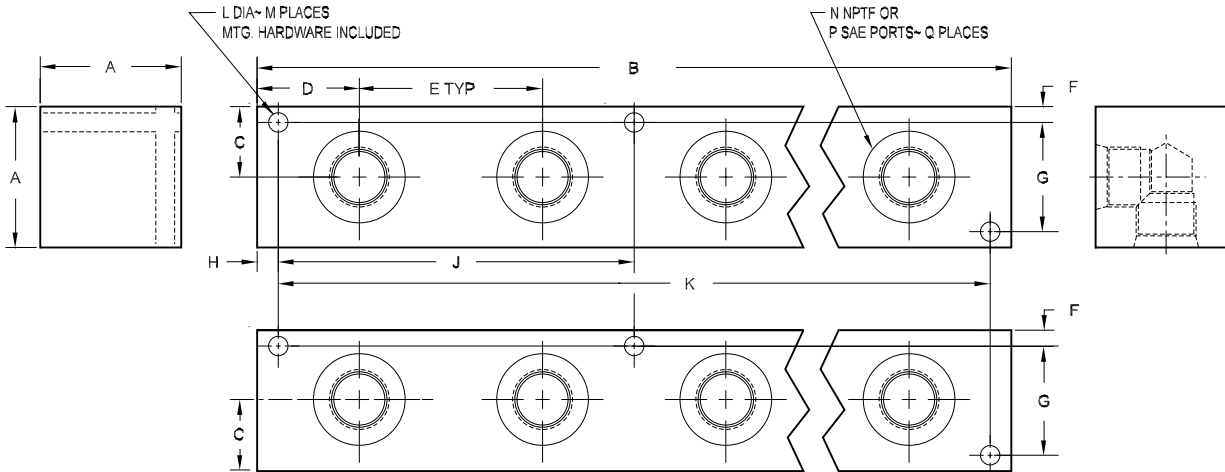
Material		Product Type	Side Port Layout	No. of Stations	Side Port Threads																																																			
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Header Manifolds - 180° Design

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
H1800304		5.63 [142.9]							--	5.00 [127.0]		4					6
H1800404		7.38 [187.3]							--	6.75 [171.5]	0.28	4					8
H1800604	1.75	10.88 [276.2]	0.88	1.06	1.75	0.25	1.25	0.31	5.13 [130.2]	10.25 [260.4]	[7.1]	6	3/8	-6	1/4	-4	12
H1800804	[44.5]	14.38 [365.1]	[22.2]	[27.0]	[44.5]	[6.4]	[31.8]	[7.9]	6.88 [174.6]	13.75 [349.3]		6					16
H1801004		17.88 [454.0]							8.63 [219.1]	17.25 [438.2]		6					20
*H1800206P		5.00 [127.0]							--	4.38 [111.1]		4					4
*H1800306P		7.00 [177.8]							--	6.38 [161.9]		4					6
*H1800406P	2.00	9.00 [228.6]	1.00	1.50	2.00	0.25	1.50	0.31	--	8.38 [212.7]	0.28	4	1/2	-8	3/8	-6	8
*H1800606P	[50.8]	13.00 [330.2]	[25.4]	[38.1]	[50.8]	[6.4]	[38.1]	[7.9]	6.19 [157.2]	12.38 [314.3]	[7.1]	6					12
*H1800806P		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6					16
*H1801006P		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6					20
*H1800206S		5.00 [127.0]							--	4.38 [111.1]		4					4
*H1800306S		7.00 [177.8]							--	6.38 [161.9]		4					6
*H1800406S	1.75	9.00 [228.6]	0.88	1.50	2.00	0.25	1.25	0.31	--	8.38 [212.7]	0.28	4	1/2	-8	3/8	-6	8
*H1800606S	[44.5]	13.00 [330.2]	[22.2]	[38.1]	[50.8]	[6.4]	[31.8]	[7.9]	6.19 [157.2]	12.38 [314.3]	[7.1]	6					12
*H1800806S		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6					16
*H1801006S		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6					20
*H1800208P		5.38 [136.5]							--	4.75 [120.7]		4					4
*H1800308P		7.75 [196.9]							--	7.13 [181.0]		4					6
*H1800408P	2.00	10.13 [257.2]	1.00	1.50	2.38	0.25	1.50	0.31	--	9.50 [241.3]	0.28	4	3/4	-12	1/2	-8	8
*H1800608P	[50.8]	14.88 [377.8]	[25.4]	[38.1]	[60.3]	[6.4]	[38.1]	[7.9]	7.13 [181.0]	14.25 [362.0]	[7.1]	6					12
*H1800808P		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6					16
*H1801008P		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6					20
*H1800208S		5.38 [136.5]							--	4.75 [120.7]		4					4
*H1800308S		7.75 [196.9]							--	7.13 [181.0]		4					6
*H1800408S	2.25	10.13 [257.2]	1.13	1.50	2.38	0.25	1.75	0.31	--	9.50 [241.3]	0.28	4	3/4	-12	1/2	-8	8
*H1800608S	[57.2]	14.88 [377.8]	[28.6]	[38.1]	[60.3]	[6.4]	[44.5]	[7.9]	7.13 [181.0]	14.25 [362.0]	[7.1]	6					12
*H1800808S		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6					16
*H1801008S		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6					20
H1800212		6.88 [174.6]							--	6.13 [155.6]		4					4
H1800312		10.13 [257.2]							--	9.38 [238.1]		4					6
H1800412	2.50	13.38 [339.7]	1.25	1.81	3.25	0.28	1.94	0.38	--	12.63 [320.7]	0.34	4	1"	-16	3/4	-12	8
H1800612	[63.5]	19.88 [504.8]	[31.8]	[46.0]	[82.6]	[7.1]	[49.2]	[9.5]	9.56 [242.9]	19.13 [485.8]	[8.7]	6					12
H1800812		26.38 [669.9]							12.81 [325.4]	25.63 [650.9]		6					16
H1801012		32.88 [835.0]							16.06 [408.0]	32.13 [816.0]		6					20
H1800216		7.75 [197.0]							--	7.00 [177.8]		4					4
H1800316		11.50 [292.1]							--	10.75 [273.1]		4					6
H1800416	3.00	15.25 [387.4]	1.50	2.00	3.75	0.34	2.31	0.38	--	14.50 [368.3]	0.41	4	1-1/4	-20	1"	-16	8
H1800616	[76.2]	22.75 [577.9]	[38.1]	[50.8]	[95.3]	[8.7]	[58.7]	[9.5]	11.00 [279.4]	22.00 [558.8]	[10.3]	6					12
H1800816		30.25 [768.4]							14.75 [374.7]	29.50 [749.3]		6					16
H1801016		37.75 [958.9]							18.50 [469.9]	37.00 [939.8]		6					20
H1800220		8.50 [215.9]							--	7.50 [190.5]		4					4
H1800320	3.50	12.50 [317.5]	1.75	2.25	4.00	0.41	2.69	0.50	--	11.50 [292.1]	0.53	4	1-1/2	-24	1-1/4	-20	6
H1800420	[88.9]	16.50 [419.1]	[44.5]	[57.2]	[101.6]	[10.3]	[68.3]	[12.7]	--	15.50 [393.7]	[13.5]	4					8
H1800620		24.50 [622.3]							11.75 [298.5]	23.50 [596.9]		6					12
H1800820		32.50 [825.5]							15.75 [400.1]	31.50 [800.1]		6					16
*H1800224P		10.00 [254.0]							--	9.00 [228.6]		4					4
*H1800324P	4.00	15.00 [381.0]	2.00	2.50	5.00	0.41	3.19	0.50	--	14.00 [355.6]	0.53	4	2"	-32	1-1/2	-24	6
*H1800424P	[101.6]	20.00 [508.0]	[50.8]	[63.5]	[127.0]	[10.3]	[81.0]	[12.7]	9.50 [241.3]	19.00 [482.6]	[13.5]	6					8
*H1800624P		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6					12
*H1800224S		10.00 [254.0]							--	9.00 [228.6]		4					4
*H1800324S	4.50	15.00 [381.0]	2.25	2.50	5.00	0.41	3.69	0.50	--	14.00 [355.6]	0.53	4	2"	-32	1-1/2	-24	6
*H1800424S	[114.3]	20.00 [508.0]	[57.2]	[63.5]	[127.0]	[10.3]	[93.7]	[12.7]	9.50 [241.3]	19.00 [482.6]	[13.5]	6					8
*H1800624S		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6					12

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Junction block mounting hardware is supplied.
See page 179 for itemized list.



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Ordering Information

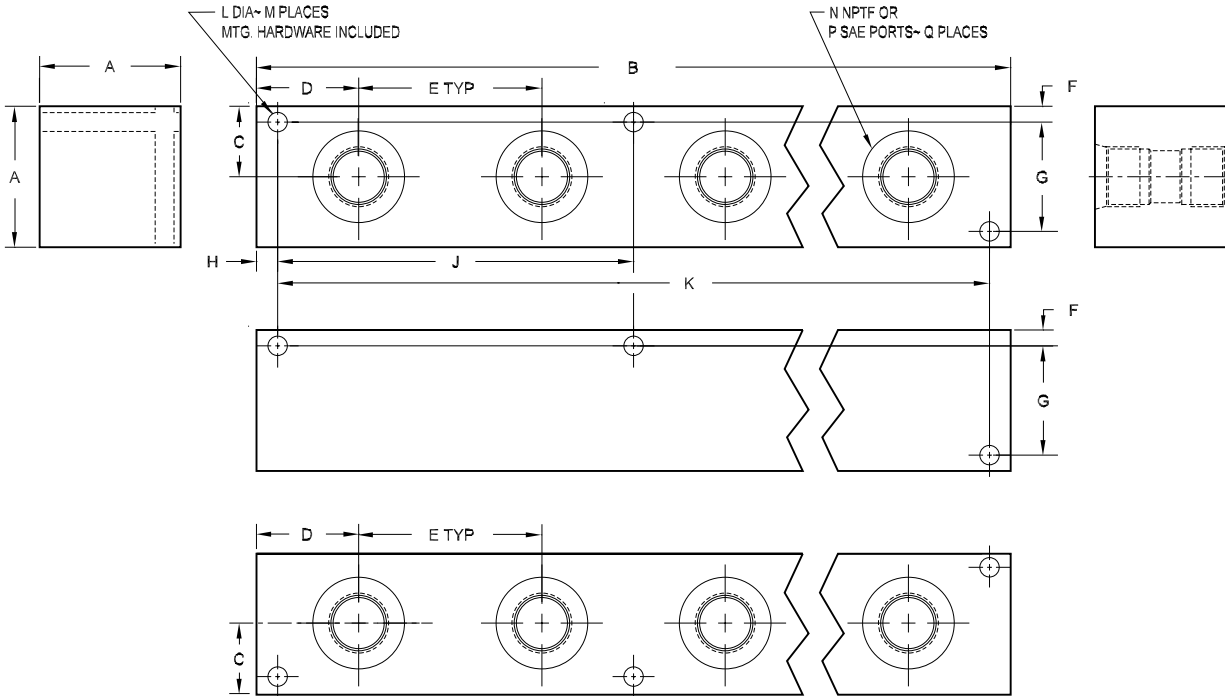
Material		Product Type	Side Port Layout	No. of Stations	Side Port Threads																																																			
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Product Type</th></tr><tr><td>J</td><td>Junction Block</td></tr></table>	Product Type		J	Junction Block	<table><tr><th colspan="2">Side Port Layout</th></tr><tr><td>090</td><td>Ports out two adjacent sides</td></tr></table>	Side Port Layout		090	Ports out two adjacent sides	<table><tr><th colspan="2">No. of Stations</th></tr><tr><td>02</td><td rowspan="6">Check chart on next page to verify station-port size combinations and stock status</td></tr><tr><td>03</td></tr><tr><td>04</td></tr><tr><td>06</td></tr><tr><td>08</td></tr><tr><td>10</td></tr></table>	No. of Stations		02	Check chart on next page to verify station-port size combinations and stock status	03	04	06	08	10	<table><tr><th colspan="4">Side Port Threads</th></tr><tr><td>04P</td><td rowspan="6">NPTF ANSI B1.20.3</td><td>04S</td><td rowspan="6">ISO 11926 SAE 1926</td></tr><tr><td>06P</td><td>06S</td></tr><tr><td>08P</td><td>08S</td></tr><tr><td>12P</td><td>12S</td></tr><tr><td>16P</td><td>16S</td></tr><tr><td>20P</td><td>20S</td></tr><tr><td>24P</td><td></td><td>24S</td><td></td></tr><tr><td colspan="4">Check chart on next page to verify station-port size combinations</td></tr></table>	Side Port Threads				04P	NPTF ANSI B1.20.3	04S	ISO 11926 SAE 1926	06P	06S	08P	08S	12P	12S	16P	16S	20P	20S	24P		24S		Check chart on next page to verify station-port size combinations			
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Junction Manifolds - 90° Design

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
J0900304		5.63 [142.9]							--	5.00 [127.0]		4			6
J0900404	1.75	7.38 [187.3]							--	6.75 [171.5]	0.28	4			8
J0900604	[44.5]	10.88 [276.2]	0.88	1.06	1.75	0.25	1.25	0.31	5.13 [130.2]	10.25 [260.4]	[7.1]	6	1/4	-4	12
J0900804		14.38 [365.1]	[22.2]	[27.0]	[44.5]	[6.4]	[31.8]	[7.9]	6.88 [174.6]	13.75 [349.3]		6			16
J0901004		17.88 [454.0]							8.63 [219.1]	17.25 [438.2]		6			20
J0900206		5.00 [127.0]							--	4.38 [111.1]		4			4
J0900306		7.00 [177.8]							--	6.38 [161.9]		4			6
J0900406	1.75	9.00 [228.6]	0.88	1.50	2.00	0.25	1.25	0.31	--	8.38 [212.7]	0.28	4	3/8	-6	8
J0900606	[44.5]	13.00 [330.2]	[22.2]	[38.1]	[50.8]	[6.4]	[31.8]	[7.9]	6.19 [157.2]	12.38 [314.3]	[7.1]	6			12
J0900806		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6			16
J0901006		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6			20
J0900208		5.38 [136.5]							--	4.75 [120.7]		4			4
J0900308		7.75 [196.9]							--	7.13 [181.0]		4			6
J0900408	2.00	10.13 [257.2]	1.00	1.50	2.38	0.25	1.50	0.31	--	9.50 [241.3]	0.28	4	1/2	-8	8
J0900608	[50.8]	14.88 [377.8]	[25.4]	[38.1]	[60.3]	[6.4]	[38.1]	[7.9]	7.13 [181.0]	14.25 [362.0]	[7.1]	6			12
J0900808		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6			16
J0901008		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6			20
J0900212		6.88 [174.6]							--	6.13 [155.6]		4			4
J0900312		10.13 [257.2]							--	9.38 [238.1]		4			6
J0900412	2.50	13.38 [339.7]	1.25	1.81	3.25	0.28	1.94	0.38	--	12.63 [320.7]	0.34	4	3/4	-12	8
J0900612	[63.5]	19.88 [504.8]	[31.8]	[46.0]	[82.6]	[7.1]	[49.2]	[9.5]	9.56 [242.9]	19.13 [485.8]	[8.7]	6			12
J0900812		26.38 [669.9]							12.81 [325.4]	25.63 [650.9]		6			16
J0901012		32.88 [835.0]							16.06 [408.0]	32.13 [816.0]		6			20
J0900216		7.75 [197.0]							--	7.00 [177.8]		4			4
J0900316		11.50 [292.1]							--	10.75 [273.1]		4			6
J0900416	3.00	15.25 [387.4]	1.50	2.00	3.75	0.34	2.31	0.38	--	14.50 [368.3]	0.41	4	1"	-16	8
J0900616	[76.2]	22.75 [577.9]	[38.1]	[50.8]	[95.3]	[8.7]	[58.7]	[9.5]	11.00 [279.4]	22.00 [558.8]	[10.3]	6			12
J0900816		30.25 [768.4]							14.75 [374.7]	29.50 [749.3]		6			16
J0901016		37.75 [958.9]							18.50 [469.9]	37.00 [939.8]		6			20
J0900220		8.50 [215.9]							--	7.50 [190.5]		4			4
J0900320		12.50 [317.5]							--	11.50 [292.1]		4			6
J0900420	3.50	16.50 [419.1]	1.75	2.25	4.00	0.41	2.69	0.50	--	15.50 [393.7]	0.53	4	1-1/4	-20	8
J0900620	[88.9]	24.50 [622.3]	[44.5]	[57.2]	[101.6]	[10.3]	[68.3]	[12.7]	11.75 [298.5]	23.50 [596.9]	[13.5]	6			12
J0900820		32.50 [825.5]							15.75 [400.1]	31.50 [800.1]		6			16
J0900224		10.00 [254.0]							--	9.00 [228.6]		4			4
J0900324		15.00 [381.0]							--	14.00 [355.6]	0.53	4			6
J0900424	4.00	20.00 [508.0]	2.00	2.50	5.00	0.41	3.19	0.50	9.50 [241.3]	19.00 [482.6]	[13.5]	6	1-1/2	-24	8
J0900624	[101.6]	30.00 [762.0]	[50.8]	[63.5]	[127.0]	[10.3]	[81.0]	[12.7]	14.50 [368.3]	29.00 [736.6]		6			12

Junction Manifolds - 180° Design

Junction block mounting hardware is supplied.
See page 179 for itemized list.



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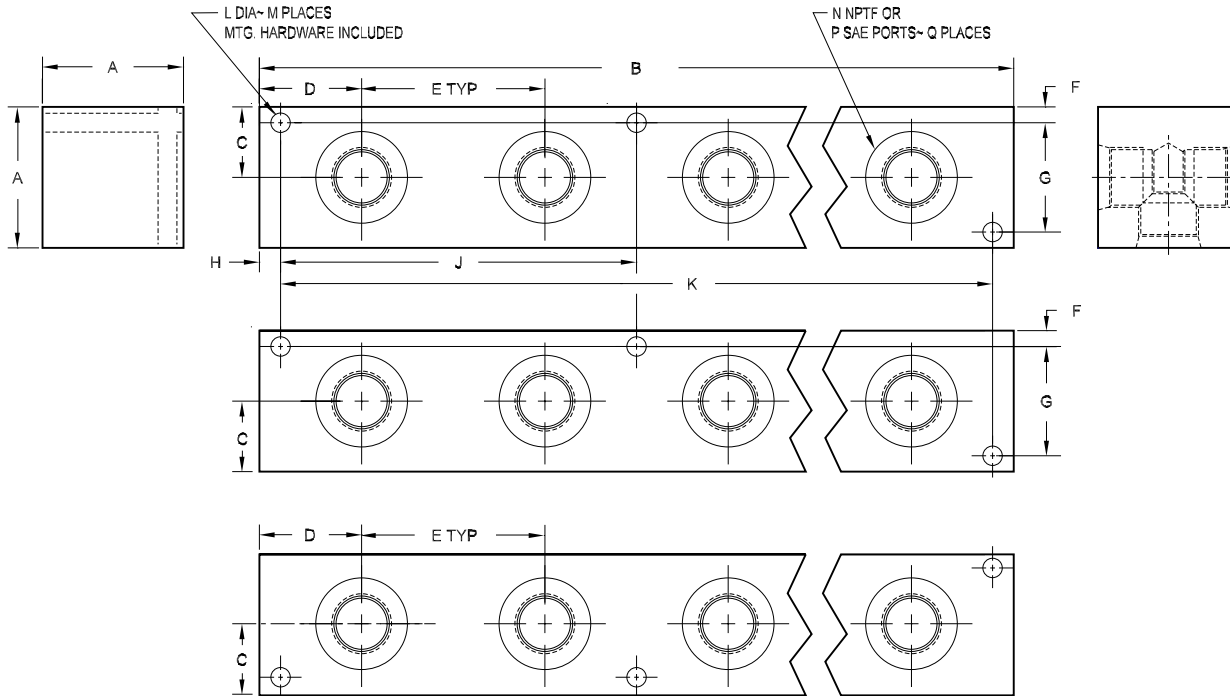
Material		Product Type	Side Port Layout	No. of Stations	Side Port Threads																																																			
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Junction Manifolds - 180° Design

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
J1800304		5.63 [142.9]							--	5.00 [127.0]		4			6
J1800404	1.75	7.38 [187.3]							--	6.75 [171.5]	0.28	4			8
J1800604	[44.5]	10.88 [276.2]	0.88	1.06	1.75	0.25	1.25	0.31	5.13 [130.2]	10.25 [260.4]	[7.1]	6	1/4	-4	12
J1800804		14.38 [365.1]	[22.2]	[27.0]	[44.5]	[6.4]	[31.8]	[7.9]	6.88 [174.6]	13.75 [349.3]		6			16
J1801004		17.88 [454.0]							8.63 [219.1]	17.25 [438.2]		6			20
J1800206		5.00 [127.0]							--	4.38 [111.1]		4			4
J1800306		7.00 [177.8]							--	6.38 [161.9]		4			6
J1800406	1.75	9.00 [228.6]	0.88	1.50	2.00	0.25	1.25	0.31	--	8.38 [212.7]	0.28	4	3/8	-6	8
J1800606	[44.5]	13.00 [330.2]	[22.2]	[38.1]	[50.8]	[6.4]	[31.8]	[7.9]	6.19 [157.2]	12.38 [314.3]	[7.1]	6			12
J1800806		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6			16
J1801006		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6			20
J1800208		5.38 [136.5]							--	4.75 [120.7]		4			4
J1800308		7.75 [196.9]							--	7.13 [181.0]		4			6
J1800408	2.00	10.13 [257.2]	1.00	1.50	2.38	0.25	1.50	0.31	--	9.50 [241.3]	0.28	4	1/2	-8	8
J1800608	[50.8]	14.88 [377.8]	[25.4]	[38.1]	[60.3]	[6.4]	[38.1]	[7.9]	7.13 [181.0]	14.25 [362.0]	[7.1]	6			12
J1800808		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6			16
J1801008		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6			20
J1800212		6.88 [174.6]							--	6.13 [155.6]		4			4
J1800312		10.13 [257.2]							--	9.38 [238.1]		4			6
J1800412	2.50	13.38 [339.7]	1.25	1.81	3.25	0.28	1.94	0.38	--	12.63 [320.7]	0.34	4	3/4	-12	8
J1800612	[63.5]	19.88 [504.8]	[31.8]	[46.0]	[82.6]	[7.1]	[49.2]	[9.5]	9.56 [242.9]	19.13 [485.8]	[8.7]	6			12
J1800812		26.38 [669.9]							12.81 [325.4]	25.63 [650.9]		6			16
J1801012		32.88 [835.0]							16.06 [408.0]	32.13 [816.0]		6			20
J1800216		7.75 [197.0]							--	7.00 [177.8]		4			4
J1800316		11.50 [292.1]							--	10.75 [273.1]		4			6
J1800416	3.00	15.25 [387.4]	1.50	2.00	3.75	0.34	2.31	0.38	--	14.50 [368.3]	0.41	4	1"	-16	8
J1800616	[76.2]	22.75 [577.9]	[38.1]	[50.8]	[95.3]	[8.7]	[58.7]	[9.5]	11.00 [279.4]	22.00 [558.8]	[10.3]	6			12
J1800816		30.25 [768.4]							14.75 [374.7]	29.50 [749.3]		6			16
J1801016		37.75 [958.9]							18.50 [469.9]	37.00 [939.8]		6			20
J1800220		8.50 [215.9]							--	7.50 [190.5]		4			4
J1800320		12.50 [317.5]							--	11.50 [292.1]		4			6
J1800420	3.50	16.50 [419.1]	1.75	2.25	4.00	0.41	2.69	0.50	--	15.50 [393.7]	0.53	4	1-1/4	-20	8
J1800620	[88.9]	24.50 [622.3]	[44.5]	[57.2]	[101.6]	[10.3]	[68.3]	[12.7]	11.75 [298.5]	23.50 [596.9]	[13.5]	6			12
J1800820		32.50 [825.5]							15.75 [400.1]	31.50 [800.1]		6			16
J1800224		10.00 [254.0]							--	9.00 [228.6]		4			4
J1800324	4.00	15.00 [381.0]	2.00	2.50	5.00	0.41	3.19	0.50	--	14.00 [355.6]	0.53	4	1-1/2	-24	6
J1800424	[101.6]	20.00 [508.0]	[50.8]	[63.5]	[127.0]	[10.3]	[81.0]	[12.7]	9.50 [241.3]	19.00 [482.6]	[13.5]	6			8
J1800624		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6			12

Junction Manifolds - 270° Design

Junction block mounting hardware is supplied.
See page 179 for itemized list.



Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.damanifolds.com.

Ordering Information

Material		Product Type	Side Port Layout	No. of Stations	Side Port Threads																																																			
<table><tr><th colspan="2">Material</th></tr><tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr><tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr><tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr></table>		Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		<table><tr><th colspan="2">Product Type</th></tr><tr><td>J</td><td>Junction Block</td></tr></table>	Product Type		J	Junction Block	<table><tr><th colspan="2">Side Port Layout</th></tr><tr><td>270</td><td>Ports out three adjacent sides</td></tr></table>	Side Port Layout		270	Ports out three adjacent sides	<table><tr><th colspan="2">No. of Stations</th></tr><tr><td>02</td><td rowspan="6">Check chart on next page to verify station-port size combinations</td></tr><tr><td>03</td></tr><tr><td>04</td></tr><tr><td>06</td></tr><tr><td>08</td></tr><tr><td>10</td></tr></table>	No. of Stations		02	Check chart on next page to verify station-port size combinations	03	04	06	08	10	<table><tr><th colspan="4">Side Port Threads</th></tr><tr><td>04P</td><td rowspan="6">NPTF ANSI B1.20.3</td><td>04S</td><td rowspan="6">SAE ISO 11926 SAE 1926</td></tr><tr><td>06P</td><td>06S</td></tr><tr><td>08P</td><td>08S</td></tr><tr><td>12P</td><td>12S</td></tr><tr><td>16P</td><td>16S</td></tr><tr><td>20P</td><td>20S</td></tr><tr><td>24P</td><td></td><td>24S</td><td></td></tr><tr><td colspan="4">Check chart on next page to verify station-port size combinations</td></tr></table>	Side Port Threads				04P	NPTF ANSI B1.20.3	04S	SAE ISO 11926 SAE 1926	06P	06S	08P	08S	12P	12S	16P	16S	20P	20S	24P		24S		Check chart on next page to verify station-port size combinations			
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Check chart on next page to verify station-port size combinations																																																								

Junction Manifolds - 270° Design

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
J2700304		5.63 [142.9]							--	5.00 [127.0]		4			9
J2700404	1.75	7.38 [187.3]							--	6.75 [171.5]	0.28	4			12
J2700604	[44.5]	10.88 [276.2]	0.88	1.06	1.75	0.25	1.25	0.31	5.13 [130.2]	10.25 [260.4]	[7.1]	6	1/4	-4	18
J2700804		14.38 [365.1]	[22.2]	[27.0]	[44.5]	[6.4]	[31.8]	[7.9]	6.88 [174.6]	13.75 [349.3]		6			24
J2701004		17.88 [454.0]							8.63 [219.1]	17.25 [438.2]		6			30
J2700206		5.00 [127.0]							--	4.38 [111.1]		4			6
J2700306		7.00 [177.8]							--	6.38 [161.9]		4			9
J2700406	1.75	9.00 [228.6]	0.88	1.50	2.00	0.25	1.25	0.31	--	8.38 [212.7]	0.28	4	3/8	-6	12
J2700606	[44.5]	13.00 [330.2]	[22.2]	[38.1]	[50.8]	[6.4]	[31.8]	[7.9]	6.19 [157.2]	12.38 [314.3]	[7.1]	6			18
J2700806		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6			24
J2701006		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6			30
J2700208		5.38 [136.5]							--	4.75 [120.7]		4			6
J2700308		7.75 [196.9]							--	7.13 [181.0]		4			9
J2700408	2.00	10.13 [257.2]	1.00	1.50	2.38	0.25	1.50	0.31	--	9.50 [241.3]	0.28	4	1/2	-8	12
J2700608	[50.8]	14.88 [377.8]	[25.4]	[38.1]	[60.3]	[6.4]	[38.1]	[7.9]	7.13 [181.0]	14.25 [362.0]	[7.1]	6			18
J2700808		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6			24
J2701008		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6			30
J2700212		6.88 [174.6]							--	6.13 [155.6]		4			6
J2700312		10.13 [257.2]							--	9.38 [238.1]		4			9
J2700412	2.50	13.38 [339.7]	1.25	1.81	3.25	0.28	1.94	0.38	--	12.63 [320.7]	0.34	4	3/4	-12	12
J2700612	[63.5]	19.88 [504.8]	[31.8]	[46.0]	[82.6]	[7.1]	[49.2]	[9.5]	9.56 [242.9]	19.13 [485.8]	[8.7]	6			18
J2700812		26.38 [669.9]							12.81 [325.4]	25.63 [650.9]		6			24
J2701012		32.88 [835.0]							16.06 [408.0]	32.13 [816.0]		6			30
J2700216		7.75 [197.0]							--	7.00 [177.8]		4			6
J2700316		11.50 [292.1]							--	10.75 [273.1]		4			9
J2700416	3.00	15.25 [387.4]	1.50	2.00	3.75	0.34	2.31	0.38	--	14.50 [368.3]	0.41	4	1"	-16	12
J2700616	[76.2]	22.75 [577.9]	[38.1]	[50.8]	[95.3]	[8.7]	[58.7]	[9.5]	11.00 [279.4]	22.00 [558.8]	[10.3]	6			18
J2700816		30.25 [768.4]							14.75 [374.7]	29.50 [749.3]		6			24
J2701016		37.75 [958.9]							18.50 [469.9]	37.00 [939.8]		6			30
J2700220		8.50 [215.9]							--	7.50 [190.5]		4			6
J2700320	3.50	12.50 [317.5]	1.75	2.25	4.00	0.41	2.69	0.50	--	11.50 [292.1]	0.53	4	1-1/4	-20	9
J2700420	[88.9]	16.50 [419.1]	[44.5]	[57.2]	[101.6]	[10.3]	[68.3]	[12.7]	--	15.50 [393.7]	[13.5]	4			12
J2700620		24.50 [622.3]							11.75 [298.5]	23.50 [596.9]		6			18
J2700820		32.50 [825.5]							15.75 [400.1]	31.50 [800.1]		6			24
J2700224		10.00 [254.0]							--	9.00 [228.6]		4			6
J2700324	4.00	15.00 [381.0]	2.00	2.50	5.00	0.41	3.19	0.50	--	14.00 [355.6]	0.53	4	1-1/2	-24	9
J2700424	[101.6]	20.00 [508.0]	[50.8]	[63.5]	[127.0]	[10.3]	[81.0]	[12.7]	9.50 [241.3]	19.00 [482.6]	[13.5]	6			12
J2700624		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6			18



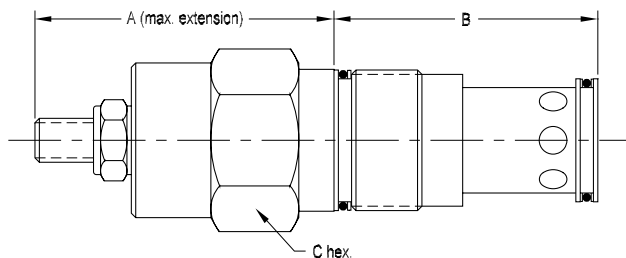
Hydraulic Valve Manifolds Better System Design Begins with a Manifold.

TECHNICAL INFORMATION

Dimensional Reference

Relief Valve Ordering Information	Page 193
Directional Valve Patterns	Pages 194-195
Flow Control Valve Patterns	Pages 196-197
Pressure Control Valve Patterns	Pages 196-197
Servo Valve Patterns	Pages 198-205
“Obsolete Valve” Patterns	Pages 206-208

Relief Valves



Valve	A max.	B	C hex
RPCC	2.11 [53.6]	1.22 [31.0]	0.75 [19.1]
RPEC	2.00 [50.8]	1.56 [39.7]	0.88 [22.2]
RPGC	2.12 [54.0]	1.88 [47.6]	1.12 [28.6]
RPIC	2.44 [61.9]	2.44 [61.9]	1.25 [31.8]

Sun Valve Application Chart			
Manifolds		Subplates	
*D02P****/S	RPCC-L*V	*D03SPRVS***	RPEC-L*V
*D02S****/S	RPCC-L*V	*D03SPCRS***	RPEC-L*V
*D03P****/S	RPEC-L*V	*D05SPRVS8*	RPEC-L*V
*D03HP****/S	RPGC-L*V	*D05SPCRS8*	RPEC-L*V
*D03S****/S	RPEC-L*V		
*D05P****/S	RPGC-L*V	*D05HSPRVS12*	RPGC-L*V
*D05HP****/S	RPGC-L*V	*D05HSPCRS12*	RPGC-L*V
*D05JP****/S	RPIC-L*V	*D05JSPRVS16*	RPIC-L*V
*D05S02**/S	RPGC-L*V	*D05JSPCRS16*	RPIC-L*V
*D07P****/S	RPGC-L*V	*D07SPRVS12*	RPGC-L*V
*D07HP****/S	RPIC-L*V	*D07HSPRV16*	RPIC-L*V
*D08P****/S	RPGC-L*V	*D08SPRVS16*	RPGC-L*V
*D08HP****/S	RPIC-L*V	*D08SPRVS20*	RPIC-L*V

Note: We stock a limited number of Sun relief valves through their NFPA member policy, but we are not a Sun distributor. Any technical or performance questions should be addressed to Sun or one of their authorized distributors.

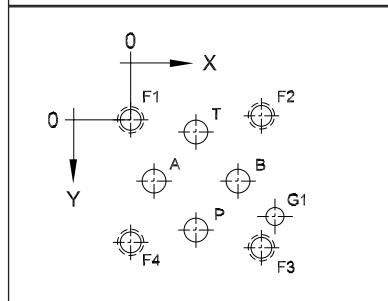
Ordering Information

Inventory Number	—	Bracket Size	Riser																		
999		<table><tr><th colspan="2">Sun Model Code</th></tr><tr><td>RPCC</td><td>Cavity T-162A 0 to 12 GPM</td></tr><tr><td>RPEC</td><td>Cavity T-10A 0 to 25 GPM</td></tr><tr><td>RPGC</td><td>Cavity T-3A 0 to 50 GPM</td></tr><tr><td>RPIC</td><td>Cavity T-16A 0 to 100 GPM</td></tr></table>	Sun Model Code		RPCC	Cavity T-162A 0 to 12 GPM	RPEC	Cavity T-10A 0 to 25 GPM	RPGC	Cavity T-3A 0 to 50 GPM	RPIC	Cavity T-16A 0 to 100 GPM	<table><tr><th colspan="2">Adjustment Range</th></tr><tr><td>LAV</td><td>100 to 3000 psi 1000 std. setting</td></tr><tr><td>LBV</td><td>50 to 1500 psi 1000 std. setting</td></tr><tr><td>LCV</td><td>150 to 6000 psi 1000 std. setting</td></tr></table>	Adjustment Range		LAV	100 to 3000 psi 1000 std. setting	LBV	50 to 1500 psi 1000 std. setting	LCV	150 to 6000 psi 1000 std. setting
Sun Model Code																					
RPCC	Cavity T-162A 0 to 12 GPM																				
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RPGC	Cavity T-3A 0 to 50 GPM																				
RPIC	Cavity T-16A 0 to 100 GPM																				
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LAV	100 to 3000 psi 1000 std. setting																				
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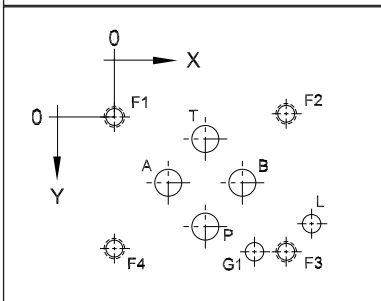
Directional Valve Patterns

These drawings are for reference only. Please consult the appropriate standard when dimensions are critical. Some holes are added per industry convention. Dimensions may vary on our products. It should not be assumed that each hole shown is found on a given product.

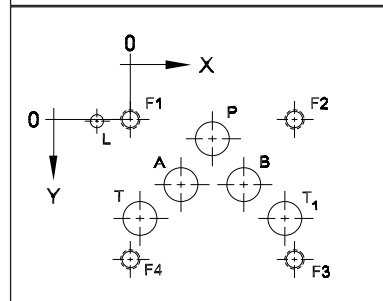
D02 ISO 4401-02-01-0-94
NFPA T3.5.1 R2-2002 D02



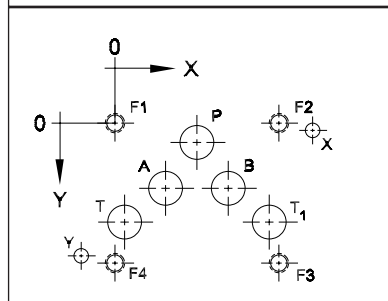
D03 ISO 4401-03-02-0-94
NFPA T3.5.1 R2-2002 D03



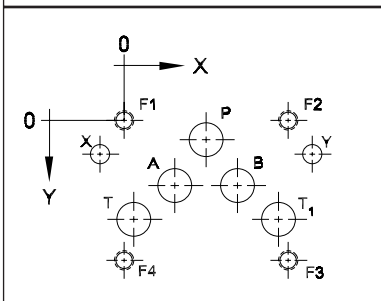
D05 ISO 4401-05-04-0-94
NFPA T3.5.1 R2-2002 D05



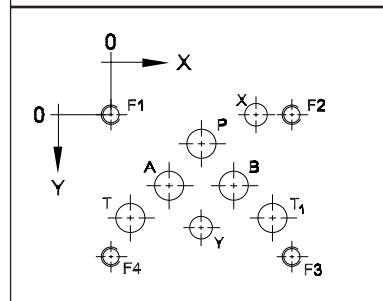
D05H NFPA T3.5.1 R2-2002
D05 - Alternative B



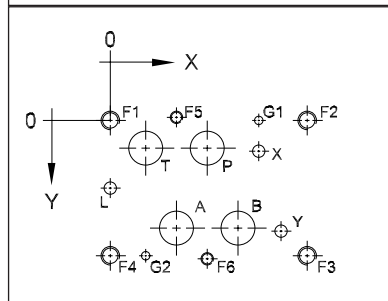
D05HE ISO 4401-05-05-0-94
NFPA T3.5.1 R2-2002 D05 - Alternative A



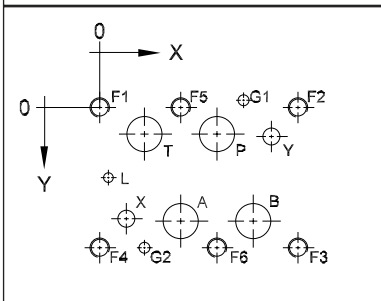
D06 NFPA T3.5.1 R2-2002 D06



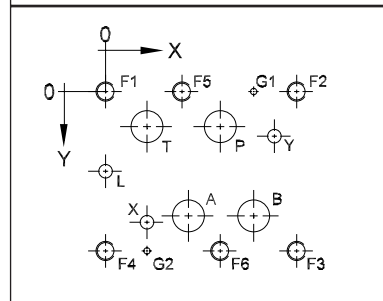
D07 ISO 4401-07-06-0-94
NFPA T3.5.1 R2-2002 D07



D08 ISO 4401-08-07-0-94
NFPA T3.5.1 R2-2002 D08



D10 ISO 4401-10-08-0-94
NFPA T3.5.1 R2-2002 D10

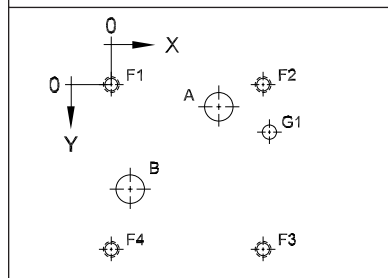


Pattern	Axis	P	A	T	T ₁	B	X	Y	L	F1	F2	F3	F4	F5	F6	G1	G2
D02	X	0.472 [12.0]	0.169 [4.3]	0.472 [12.0]	--	0.776 [19.7]	--	--	--	0 [0]	0.945 [24.0]	0.945 [24.0]	0 [0]	--	--	1.043 [26.5]	--
	Y	0.797 [20.25]	0.443 [11.25]	0.089 [2.25]	--	0.443 [11.25]	--	--	--	0 [0]	-0.030 [-0.75]	0.915 [23.25]	0.886 [22.5]	--	--	0.699 [17.75]	--
	φ (max)	0.177 [4.5]	0.177 [4.5]	0.177 [4.5]	--	0.177 [4.5]	--	--	--	#10-24 M5	#10-24 M5	#10-24 M5	#10-24 M5	--	--	0.134 [3.4]	--
D03	X	0.847 [21.5]	0.500 [12.7]	0.847 [21.5]	--	1.189 [30.2]	--	--	1.831 [46.5]	0 [0]	1.595 [40.5]	1.595 [40.5]	0 [0]	--	--	1.299 [33.0]	--
	Y	1.020 [25.9]	0.610 [15.5]	0.201 [5.1]	--	0.610 [15.5]	--	--	0.988 [25.1]	0 [0]	-0.030 [-0.75]	1.250 [31.75]	1.221 [31.0]	--	--	1.250 [31.75]	--
	φ (max)	0.295 [7.5]	0.295 [7.5]	0.295 [7.5]	--	0.295 [7.5]	--	--	0.158 [4.0]	#10-24 M5	#10-24 M5	#10-24 M5	#10-24 M5	--	--	0.158 [4.0]	--
D05	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	--	--	-0.433 [-11.0]	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	--	--	0.020 [0.5]	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--
	φ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	--	--	0.177 [4.5]	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--
D05H	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	2.563 [65.1]	-0.441 [-11.2]	--	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	0.095 [2.4]	1.721 [43.7]	--	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--
	φ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.189 [4.8]	0.189 [4.8]	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--
D05HE	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	-0.315 [-8.0]	2.441 [62.0]	--	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	0.433 [11.0]	0.433 [11.0]	--	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--
	φ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.248 [6.3]	0.248 [6.3]	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--
D06	X	1.750 [44.45]	1.120 [28.45]	0.380 [9.65]	3.120 [79.25]	2.380 [60.45]	2.811 [71.4]	1.750 [44.45]	--	0 [0]	3.500 [88.9]	3.500 [88.9]	0 [0]	--	--	--	--
	Y	0.561 [14.25]	1.380 [35.05]	2.000 [50.8]	2.000 [50.8]	1.380 [35.05]	0 [0]	2.180 [55.37]	--	0 [0]	0 [0]	2.750 [69.85]	2.750 [69.85]	--	--	--	--
	φ (max)	0.579 [14.7]	0.579 [14.7]	0.579 [14.7]	0.579 [14.7]	0.579 [14.7]	0.441 [11.2]	0.441 [11.2]	--	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	--	--	--	--
D07	X	1.969 [50.0]	1.343 [34.1]	0.721 [18.3]	--	2.595 [65.9]	3.016 [76.6]	3.469 [88.1]	0 [0]	0 [0]	4.000 [101.6]	4.000 [101.6]	0 [0]	1.343 [34.1]	1.969 [50.0]	3.016 [76.6]	0.721 [18.3]
	Y	0.563 [14.3]	2.189 [55.6]	0.563 [14.3]	--	2.189 [55.6]	0.626 [15.9]	2.252 [57.2]	1.374 [34.9]	0 [0]	0 [0]	2.752 [69.9]	2.752 [69.9]	-0.063 [-1.6]	2.815 [71.5]	0 [0]	2.752 [69.9]
	φ (max)	0.689 [17.5]	0.689 [17.5]	0.689 [17.5]	--	0.689 [17.5]	0.248 [6.3]	0.248 [6.3]	0.248 [6.3]	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	.25-20 M6	.25-20 M6	0.158 [4.0]	0.158 [4.0]
D08	X	3.032 [77.0]	2.095 [53.2]	1.158 [29.4]	--	3.969 [100.8]	0.689 [17.5]	4.437 [112.7]	0.221 [5.6]	0 [0]	5.126 [130.2]	5.126 [130.2]	0 [0]	2.095 [53.2]	3.032 [77.0]	3.721 [94.5]	1.158 [29.4]
	Y	0.689 [17.5]	2.937 [74.6]	0.689 [17.5]	--	2.937 [74.6]	2.874 [73.0]	0.748 [19.0]	1.811 [46.0]	0 [0]	0 [0]	3.626 [92.1]	3.626 [92.1]	0 [0]	3.626 [92.1]	-0.189 [-4.8]	3.626 [92.1]
	φ (max)	0.984 [25.0]	0.984 [25.0]	0.984 [25.0]	--	0.984 [25.0]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	0.295 [7.5]	0.295 [7.5]
D10	X	4.500 [114.3]	3.248 [82.5]	1.626 [41.3]	--	5.811 [147.6]	1.626 [41.3]	6.626 [168.3]	0 [0]	0 [0]	7.500 [190.5]	7.500 [190.5]	0 [0]	3.000 [76.2]	4.500 [114.3]	5.457 [138.6]	1.626 [41.3]
	Y	1.378 [35.0]	4.874 [123.8]	1.378 [35.0]	--	4.874 [123.8]	5.126 [130.2]	1.752 [44.5]	3.126 [79.4]	0 [0]	0 [0]	6.252 [158.8]	6.252 [158.8]	0 [0]	6.252 [158.8]	0 [0]	6.252 [158.8]
	φ (max)	1.260 [32.0]	1.260 [32.0]	1.260 [32.0]	--	1.260 [32.0]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	.75-10 M20	.75-10 M20	.75-10 M20	.75-10 M20	.75-10 M20	.75-10 M20	0.295 [7.5]	0.295 [7.5]

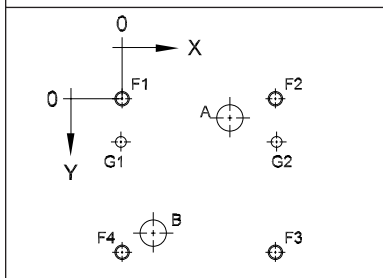
Non-Directional Valve Patterns

These drawings are for reference only. Please consult the appropriate standard when dimensions are critical. Some holes are added per industry convention. Dimensions may vary on our products. It should not be assumed that each hole shown is found on a given product.

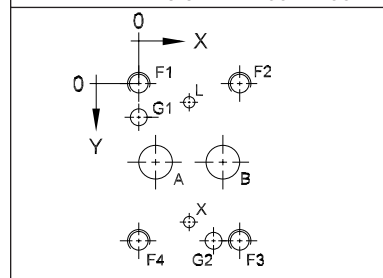
2F06 ISO 6263-06-05-*-97
NFPA T3.5.1 R2-2002 2F06



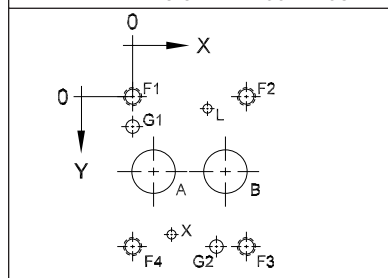
2F07 ISO 6263-07-09-*-97
NFPA T3.5.1 R2-2002 2F07



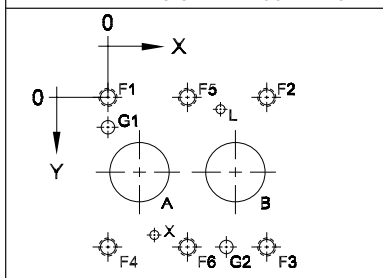
P06 ISO 6264-06-07-*-97
ISO 5781-06-07-0-00
NFPA T3.5.1 R2-2002 P06



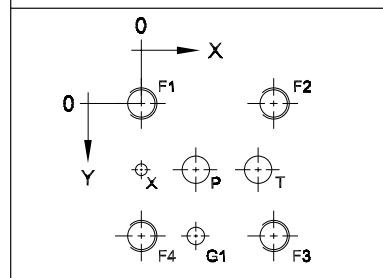
P08 ISO 6264-08-11-*-97
ISO 5781-08-10-0-00
NFPA T3.5.1 R2-2002 P08



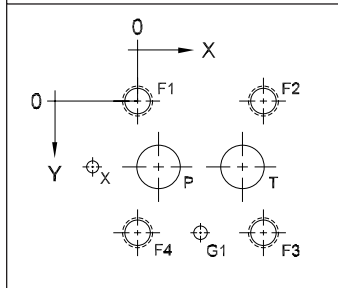
P10 ISO 6264-10-15-*-97
ISO 5781-10-13-0-00
NFPA T3.5.1 R2-2002 P10



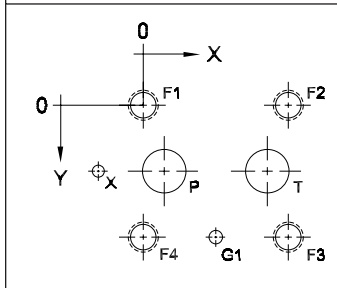
R06 (I06) ISO 6264-06-09-*-97
NFPA T3.5.1 R2-2002 R06



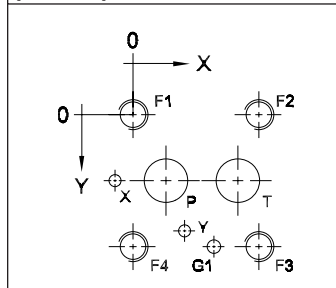
R08 ISO 6264-08-13-*-97
NFPA T3.5.1 R2-2002 R08



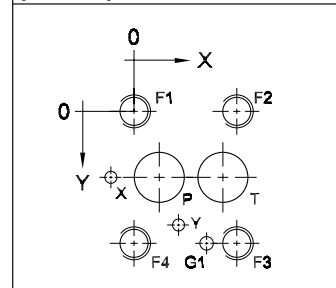
R10 ISO 6264-10-17-*-97
NFPA T3.5.1 R2-2002 R10



I08 (RV08) NFPA T3.5.1-
R2-2002 RV08



I10 (RV10) NFPA T3.5.1-
R2-2002 RV10

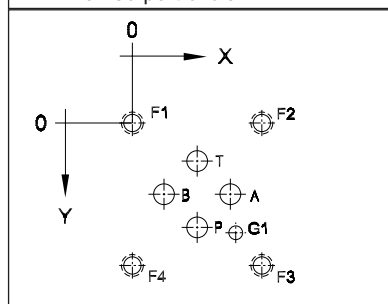


Pattern	Axis	A	B	P	T	X	L	F1	F2	F3	F4	F5	F6	G1	G2
2F06	X	2.126 [54.0]	0.374 [9.5]	--	--	--	--	0 [0]	3.000 [76.2]	3.000 [76.2]	0 [0]	--	--	3.126 [79.4]	--
	Y	0.437 [11.1]	2.063 [52.4]	--	--	--	--	0 [0]	0 [0]	3.252 [82.6]	3.252 [82.6]	--	--	0.937 [23.8]	--
	φ (max)	0.579 [14.7]	0.579 [14.7]	--	--	--	--	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	--	--	0.295 [7.5]	--
2F07	X	2.953 [75.0]	0.811 [20.6]	--	--	--	--	0 [0]	4.000 [101.6]	4.000 [101.6]	0 [0]	--	--	-0.032 [-0.8]	4.032 [102.4]
	Y	0.437 [11.1]	3.406 [86.5]	--	--	--	--	0 [0]	0 [0]	4.000 [101.6]	4.000 [101.6]	--	--	1.126 [28.6]	1.126 [28.6]
	φ (max)	0.689 [17.5]	0.689 [17.5]	--	--	--	--	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	--	--	0.409 [10.4]	0.409 [10.4]
P06	X	0.280 [7.1]	1.406 [35.7]	--	--	0.843 [21.4]	0.843 [21.4]	0 [0]	1.689 [42.9]	1.689 [42.9]	0 [0]	--	--	0 [0]	1.252 [31.8]
	Y	1.311 [33.3]	1.311 [33.3]	--	--	2.311 [58.7]	0.311 [7.9]	0 [0]	0 [0]	2.626 [66.7]	2.626 [66.7]	--	--	0.563 [14.3]	2.626 [66.7]
	φ (max)	0.579 [14.7]	0.579 [14.7]	--	--	0.189 [4.8]	0.189 [4.8]	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	--	--	0.295 [7.5]	0.295 [7.5]
P08	X	0.437 [11.1]	1.937 [49.2]	--	--	0.819 [20.8]	1.563 [39.7]	0 [0]	2.374 [60.3]	2.374 [60.3]	0 [0]	--	--	0 [0]	1.752 [44.5]
	Y	1.563 [39.7]	1.563 [39.7]	--	--	2.874 [73.0]	0.252 [6.4]	0 [0]	0 [0]	3.126 [79.4]	3.126 [79.4]	--	--	0.626 [15.9]	3.126 [79.4]
	φ (max)	0.921 [23.4]	0.921 [23.4]	--	--	0.189 [4.8]	0.189 [4.8]	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	--	--	0.295 [7.5]	0.295 [7.5]
P10	X	0.658 [16.7]	2.658 [67.5]	--	--	0.969 [24.6]	2.347 [59.6]	0 [0]	3.311 [84.1]	3.311 [84.1]	0 [0]	1.658 [42.1]	1.658 [42.1]	0 [0]	2.469 [62.7]
	Y	1.906 [48.4]	1.906 [48.4]	--	--	3.658 [92.9]	0.158 [4.0]	0 [0]	0 [0]	3.811 [96.8]	3.811 [96.8]	0 [0]	3.811 [96.8]	0.843 [21.4]	3.811 [96.8]
	φ (max)	1.260 [32.0]	1.260 [32.0]	--	--	0.189 [4.8]	0.189 [4.8]	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	0.295 [7.5]	0.295 [7.5]
R06 (I06)	X	--	--	0.870 [22.1]	1.870 [47.5]	0 [0]	--	0 [0]	2.118 [53.8]	2.118 [53.8]	0 [0]	--	--	0.870 [22.1]	--
	Y	--	--	1.059 [26.9]	1.059 [26.9]	1.059 [26.9]	--	0 [0]	0 [0]	2.118 [53.8]	2.118 [53.8]	--	--	2.118 [53.8]	--
	φ (max)	--	--	0.579 [14.7]	0.579 [14.7]	0.189 [4.8]	--	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	--	--	0.295 [7.5]	--
R08	X	--	--	0.437 [11.1]	2.189 [55.6]	-0.937 [-23.8]	--	0 [0]	2.626 [66.7]	2.626 [66.7]	0 [0]	--	--	1.315 [33.4]	--
	Y	--	--	1.378 [35.0]	1.378 [35.0]	1.378 [35.0]	--	0 [0]	0 [0]	2.756 [70.0]	2.756 [70.0]	--	--	2.756 [70.0]	--
	φ (max)	--	--	0.921 [23.4]	0.921 [23.4]	0.248 [6.3]	--	.63-11 M16	.63-11 M16	.63-11 M16	.63-11 M16	--	--	0.295 [7.5]	--
R10	X	--	--	0.500 [12.7]	3.000 [76.2]	-1.252 [-31.8]	--	0 [0]	3.500 [88.9]	3.500 [88.9]	0 [0]	--	--	1.752 [44.5]	--
	Y	--	--	1.626 [41.3]	1.626 [41.3]	1.626 [41.3]	--	0 [0]	0 [0]	3.252 [82.6]	3.252 [82.6]	--	--	3.252 [82.6]	--
	φ (max)	--	--	1.260 [32.0]	1.260 [32.0]	0.248 [6.3]	--	.75-10 M18	.75-10 M18	.75-10 M18	.75-10 M18	--	--	0.295 [7.5]	--
I08 (RV08)	X	--	--	0.689 [17.5]	2.189 [55.6]	-0.374 [-9.5]	1.441 [36.6]	0 [0]	2.626 [66.7]	2.626 [66.7]	0 [0]	--	--	1.689 [42.9]	--
	Y	--	--	1.378 [35.0]	1.378 [35.0]	1.378 [35.0]	2.248 [57.1]	0 [0]	0 [0]	2.756 [70.0]	2.756 [70.0]	--	--	2.756 [70.0]	--
	φ (max)	--	--	0.921 [23.4]	0.921 [23.4]	0.248 [6.3]	0.248 [6.3]	.63-11 M16	.63-11 M16	.63-11 M16	.63-11 M16	--	--	0.295 [7.5]	--
I10 (RV10)	X	--	--	0.563 [14.3]	2.311 [58.7]	-0.626 [-15.9]	1.248 [31.8]	0 [0]	2.626 [66.7]	2.626 [66.7]	0 [0]	--	--	2.000 [50.8]	--
	Y	--	--	1.811 [46.0]	1.811 [46.0]	1.811 [46.0]	3.185 [80.9]	0 [0]	0 [0]	3.626 [92.1]	3.626 [92.1]	--	--	3.626 [92.1]	--
	φ (max)	--	--	1.260 [32.0]	1.260 [32.0]	0.248 [6.3]	0.248 [6.3]	.75-10 M18	.75-10 M18	.75-10 M18	.75-10 M18	--	--	0.295 [7.5]	--

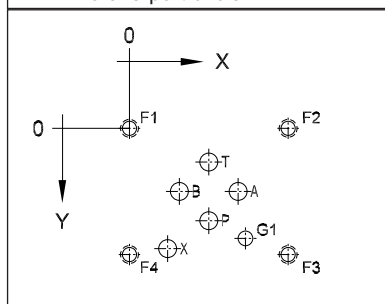
Servo Valve Patterns

These drawings are for reference only. Please consult the appropriate standard when dimensions are critical. Dimensions may vary on our products. It should not be assumed that each hole shown is found on a given product.

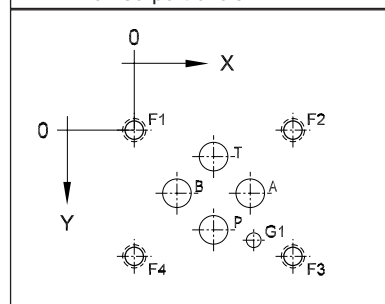
S01 ISO 10372-01-01-0-92
0.480 port circle



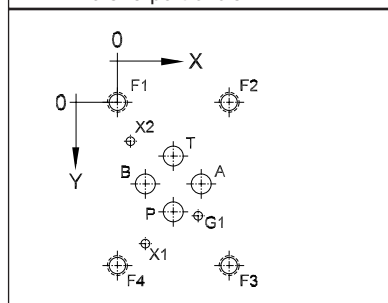
S02 ISO 10372-02-02-0-92
0.625 port circle



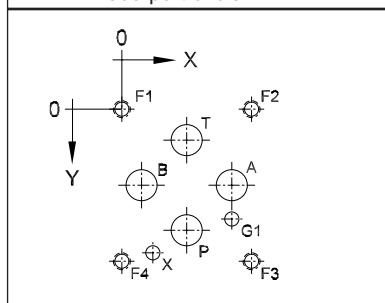
S03 ISO 10372-03-03-0-92
0.780 port circle



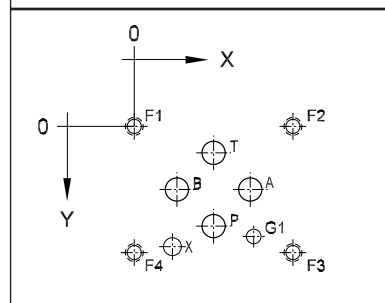
S04 ISO 10372-04-04-0-92
0.875 port circle



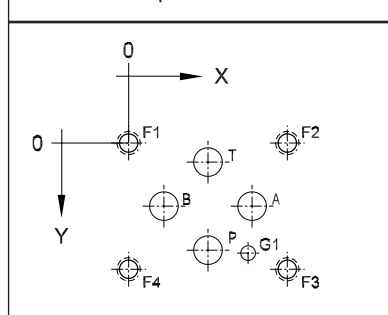
S06 ISO 10372-06-05-0-92
2.000 port circle



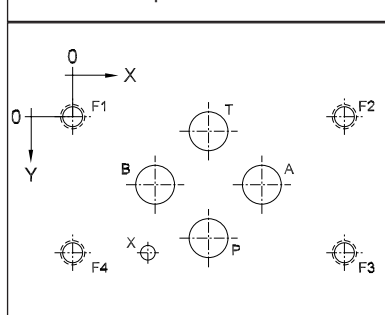
S71 0.780 port circle



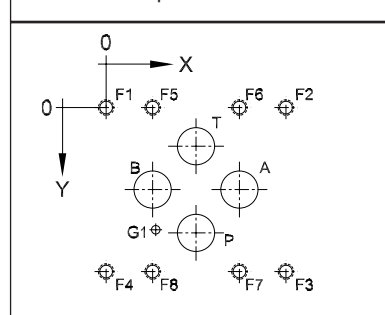
S72 0.938 port circle



S73 1.375 port circle



S74 1.750 port circle



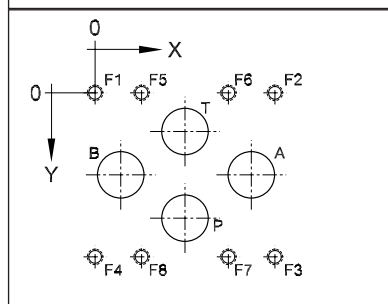
Servo patterns continued pages 200-205

Pattern	Axis	P	A	T	B	X1	X2	F1	F2	F3	F4	F5	F6	F7	F8	G1
S01	X	0.469 [11.9]	0.709 [18.0]	0.469 [11.9]	0.228 [5.8]	--	--	0 [0]	0.937 [23.8]	0.937 [23.8]	0 [0]	--	--	--	--	0.748 [19.0]
	Y	0.756 [19.2]	0.516 [13.1]	0.276 [7.0]	0.516 [13.1]	--	--	0 [0]	0 [0]	1.032 [26.2]	1.032 [26.2]	--	--	--	--	0.795 [20.2]
	φ (max)	0.150 [3.8]	0.150 [3.8]	0.150 [3.8]	0.150 [3.8]	--	--	#6-32 M4	#6-32 M4	#6-32 M4	#6-32 M4	--	--	--	--	0.098 [2.5]
S02	X	0.843 [21.4]	1.154 [29.3]	0.843 [21.4]	0.532 [13.5]	0.406 [10.3]	--	0 [0]	1.685 [42.8]	1.685 [42.8]	0 [0]	--	--	--	--	1.232 [31.3]
	Y	0.984 [25.0]	0.673 [17.1]	0.362 [9.2]	0.673 [17.1]	1.283 [32.6]	--	0 [0]	0 [0]	1.347 [34.2]	1.347 [34.2]	--	--	--	--	1.173 [29.8]
	φ (max)	0.197 [5.0]	0.197 [5.0]	0.197 [5.0]	0.197 [5.0]	0.095 [2.4]	--	#10-32 M5	#10-32 M5	#10-32 M5	#10-32 M5	--	--	--	--	0.138 [3.5]
S03	X	0.843 [21.4]	1.232 [31.3]	0.843 [21.4]	0.453 [11.5]	--	--	0 [0]	1.685 [42.8]	1.685 [42.8]	0 [0]	--	--	--	--	1.232 [31.3]
	Y	1.063 [27.0]	0.673 [17.1]	0.284 [7.2]	0.673 [17.1]	--	--	0 [0]	0 [0]	1.347 [34.2]	1.347 [34.2]	--	--	--	--	1.173 [29.8]
	φ (max)	0.260 [6.6]	0.260 [6.6]	0.260 [6.6]	0.260 [6.6]	--	--	.25-28 M6	.25-28 M6	.25-28 M6	.25-28 M6	--	--	--	--	0.138 [3.5]
S04	X	0.874 [22.2]	1.311 [33.3]	0.874 [22.2]	0.437 [11.1]	0.437 [11.1]	0.205 [5.2]	0 [0]	1.748 [44.4]	1.748 [44.4]	0 [0]	--	--	--	--	1.264 [32.1]
	Y	1.717 [43.6]	1.280 [32.5]	0.843 [21.4]	1.280 [32.5]	2.217 [56.3]	0.610 [15.5]	0 [0]	0 [0]	2.559 [65.0]	2.559 [65.0]	--	--	--	--	1.780 [45.2]
	φ (max)	0.323 [8.2]	0.323 [8.2]	0.323 [8.2]	0.323 [8.2]	0.197 [5.0]	0.197 [5.0]	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	--	--	--	--	0.138 [3.5]
S06	X	1.437 [36.5]	2.437 [61.9]	1.437 [36.5]	0.437 [11.1]	0.685 [17.4]	--	0 [0]	2.874 [73.0]	2.874 [73.0]	0 [0]	--	--	--	--	2.437 [61.9]
	Y	2.685 [68.2]	1.685 [42.8]	0.685 [17.4]	1.685 [42.8]	3.189 [81.0]	--	0 [0]	0 [0]	3.370 [85.6]	3.370 [85.6]	--	--	--	--	2.437 [61.9]
	φ (max)	0.630 [16.0]	0.630 [16.0]	0.630 [16.0]	0.630 [16.0]	0.197 [5.0]	--	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	--	--	--	--	0.315 [8.0]
S71	X	0.843 [21.4]	1.232 [31.2]	0.843 [21.4]	0.453 [11.4]	0.406 [10.3]	--	0 [0]	1.685 [42.8]	1.685 [42.8]	0 [0]	--	--	--	--	1.232 [31.3]
	Y	1.063 [27.0]	0.673 [17.1]	0.284 [7.2]	0.673 [17.1]	1.284 [32.6]	--	0 [0]	0 [0]	1.347 [34.2]	1.347 [34.2]	--	--	--	--	1.173 [29.8]
	φ (max)	0.260 [6.6]	0.260 [6.6]	0.260 [6.6]	0.260 [6.6]	0.095 [2.4]	--	#10-32 M5	#10-32 M5	#10-32 M5	#10-32 M5	--	--	--	--	0.138 [3.5]
S72	X	0.843 [21.4]	1.311 [33.3]	0.843 [21.4]	0.374 [9.5]	--	--	0 [0]	1.685 [42.8]	1.685 [42.8]	0 [0]	--	--	--	--	1.232 [31.3]
	Y	1.142 [29.0]	0.673 [17.1]	0.205 [5.2]	0.673 [17.1]	--	--	0 [0]	0 [0]	1.347 [34.2]	1.347 [34.2]	--	--	--	--	1.173 [29.8]
	φ (max)	0.315 [8.0]	0.315 [8.0]	0.315 [8.0]	0.315 [8.0]	--	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	0.138 [3.5]
S73	X	1.750 [44.5]	2.438 [61.9]	1.750 [44.5]	1.062 [27.0]	0.970 [24.6]	--	0 [0]	3.500 [88.9]	3.500 [88.9]	0 [0]	--	--	--	--	--
	Y	1.563 [39.7]	0.875 [22.3]	0.188 [4.8]	0.875 [22.3]	1.750 [44.5]	--	0 [0]	0 [0]	1.750 [44.5]	1.750 [44.5]	--	--	--	--	--
	φ (max)	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.094 [2.4]	--	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	--	--	--	--	--
S74	X	1.813 [46.1]	2.688 [68.3]	1.813 [46.1]	0.938 [23.8]	--	--	0 [0]	3.625 [92.1]	3.625 [92.1]	0 [0]	0.938 [23.8]	2.688 [68.3]	2.688 [68.3]	0.938 [23.8]	1.000 [25.4]
	Y	2.531 [64.3]	1.656 [42.1]	0.781 [19.8]	1.656 [42.1]	--	--	0 [0]	0 [0]	3.313 [84.2]	3.313 [84.2]	0 [0]	0 [0]	3.313 [84.2]	3.313 [84.2]	2.469 [62.7]
	φ (max)	0.750 [19.1]	0.750 [19.1]	0.750 [19.1]	0.750 [19.1]	--	--	.31-24 M8	.31-24 M8	.31-24 M8	.31-24 M8	.31-24 M8	.31-24 M8	.31-24 M8	.31-24 M8	0.138 [3.5]

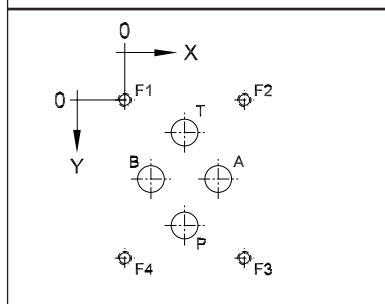
Servo Valve Patterns

These drawings are for reference only. Please consult the appropriate standard when dimensions are critical. Dimensions may vary on our products. It should not be assumed that each hole shown is found on a given product.

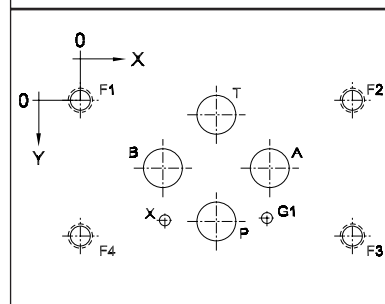
S75 2.750 port circle



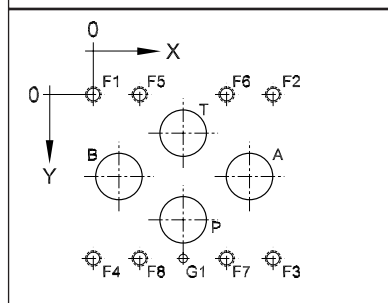
S76



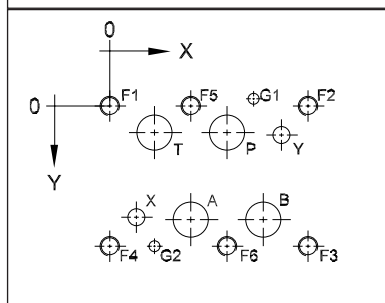
S77 1.750 port circle



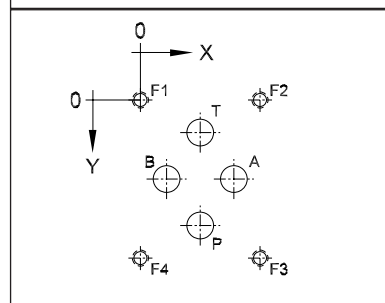
S78



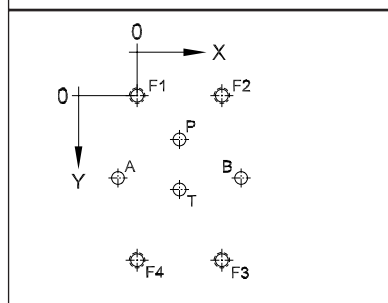
S79



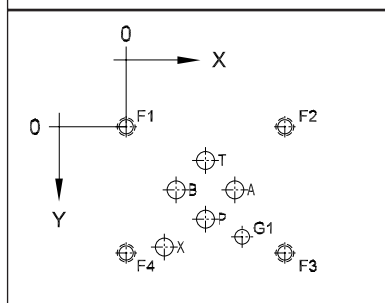
S81



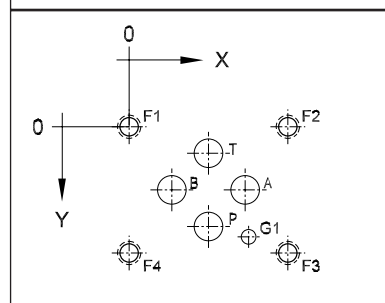
S82



S83 0.625 port circle



S84 0.740 port circle



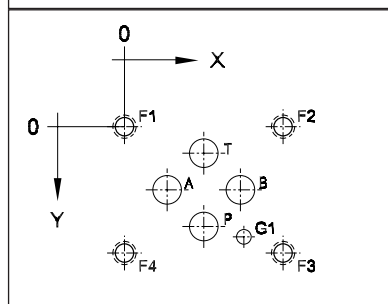
Servo patterns continued pages 202-205

Pattern	Axis	P	A	T	B	X	Y	F1	F2	F3	F4	F5	F6	F7	F8	G1	G2
S75	X	2.000 [50.8]	3.375 [85.7]	2.000 [50.8]	0.625 [15.9]	--	--	0 [0]	4.000 [101.6]	4.000 [101.6]	0 [0]	1.000 [25.4]	3.000 [76.2]	3.000 [76.2]	1.000 [25.4]	--	--
	Y	3.625 [92.1]	2.250 [57.2]	0.875 [22.2]	2.250 [57.2]	--	--	0 [0]	0 [0]	4.500 [114.3]	4.500 [114.3]	0 [0]	0 [0]	4.500 [114.3]	4.500 [114.3]	--	--
	ϕ (max)	1.000 [25.4]	1.000 [25.4]	1.000 [25.4]	1.000 [25.4]	--	--	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	--	--
S76	X	1.120 [28.5]	1.750 [44.5]	1.120 [28.5]	0.490 [12.5]	--	--	0 [0]	2.240 [56.9]	2.240 [56.9]	0 [0]	--	--	--	--	--	--
	Y	2.357 [59.9]	1.483 [37.6]	0.610 [15.5]	1.483 [37.6]	--	--	0 [0]	0 [0]	2.967 [75.4]	2.967 [75.4]	--	--	--	--	--	--
	ϕ (max)	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	--	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	--	--
S77	X	1.813 [46.0]	2.688 [68.3]	1.813 [46.0]	0.937 [23.8]	1.025 [26.0]	--	0 [0]	3.625 [92.1]	3.625 [92.1]	0 [0]	--	--	--	--	2.625 [66.7]	--
	Y	2.063 [52.4]	1.187 [30.2]	0.312 [7.9]	1.187 [30.2]	2.054 [52.2]	--	0 [0]	0 [0]	2.375 [60.3]	2.375 [60.3]	--	--	--	--	2.000 [50.8]	--
	ϕ (max)	0.625 [15.9]	0.625 [15.9]	0.625 [15.9]	0.625 [15.9]	0.125 [3.2]	--	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	--	--	--	--	0.157 [4.0]	--
S78	X	2.181 [55.4]	3.741 [95.0]	2.181 [55.4]	0.621 [15.8]	--	--	0 [0]	4.362 [110.8]	4.362 [110.8]	0 [0]	1.241 [31.5]	3.121 [79.3]	3.121 [79.3]	1.241 [31.5]	2.181 [55.4]	--
	Y	3.435 [87.2]	2.310 [58.7]	1.185 [30.1]	2.310 [58.7]	--	--	0 [0]	0 [0]	4.620 [117.3]	4.620 [117.3]	0 [0]	0 [0]	4.620 [117.3]	4.620 [117.3]	4.620 [117.3]	--
	ϕ (max)	1.125 [28.6]	1.125 [28.6]	1.125 [28.6]	1.125 [28.6]	--	--	.62-11 M16	.62-11 M16	.62-11 M16	.62-11 M16	.62-11 M16	.62-11 M16	.62-11 M16	.62-11 M16	0.313 [7.9]	--
S79	X	3.031 [77.0]	2.094 [53.2]	1.157 [29.4]	3.969 [100.8]	0.689 [17.5]	4.437 [112.7]	0 [0]	5.126 [130.2]	5.126 [130.2]	0 [0]	2.094 [53.2]	3.031 [77.0]	--	--	3.720 [94.5]	1.157 [29.4]
	Y	0.689 [17.5]	2.937 [74.6]	0.689 [17.5]	2.937 [74.6]	2.874 [73.0]	0.748 [19.0]	0 [0]	0 [0]	3.626 [92.1]	3.626 [92.1]	0 [0]	3.626 [92.1]	--	--	-0.189 [-4.8]	3.626 [92.1]
	ϕ (max)	0.984 [25.0]	0.984 [25.0]	0.984 [25.0]	0.984 [25.0]	0.441 [11.2]	0.441 [11.2]	.44-14 M12	.44-14 M12	.44-14 M12	.44-14 M12	.44-14 M12	.44-14 M12	--	--	0.295 [7.5]	0.295 [7.5]
S81	X	1.120 [28.4]	1.750 [44.5]	1.120 [28.4]	0.490 [12.4]	--	--	0 [0]	2.240 [56.9]	2.240 [56.9]	0 [0]	--	--	--	--	--	--
	Y	2.375 [60.3]	1.500 [38.1]	0.625 [15.9]	1.500 [38.1]	--	--	0 [0]	0 [0]	3.000 [76.2]	3.000 [76.2]	--	--	--	--	--	--
	ϕ (max)	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	--	--	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	--	--	--	--	--	--
S82	X	0.433 [11.0]	-0.197 [-5.0]	0.433 [11.0]	1.063 [27.0]	--	--	0 [0]	0.866 [22.0]	0.866 [22.0]	0 [0]	--	--	--	--	--	--
	Y	0.449 [11.4]	0.843 [21.4]	0.961 [24.4]	0.843 [21.4]	--	--	0 [0]	0 [0]	1.677 [42.6]	1.677 [42.6]	--	--	--	--	--	--
	ϕ (max)	0.130 [3.3]	0.130 [3.3]	0.130 [3.3]	0.130 [3.3]	--	--	M4 M4	M4 M4	M4 M4	M4 M4	--	--	--	--	--	--
S83	X	0.843 [21.4]	1.154 [29.3]	0.843 [21.4]	0.531 [13.5]	--	--	0 [0]	1.685 [42.8]	1.685 [42.8]	0 [0]	--	--	--	--	1.232 [31.3]	--
	Y	0.984 [25.0]	0.673 [17.1]	0.358 [9.1]	0.673 [17.1]	--	--	0 [0]	0 [0]	1.347 [34.2]	1.347 [34.2]	--	--	--	--	1.173 [29.8]	--
	ϕ (max)	0.191 [4.85]	0.191 [4.85]	0.191 [4.85]	0.191 [4.85]	--	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	0.138 [3.5]	--
S84	X	0.844 [21.4]	1.214 [30.8]	0.844 [21.4]	0.474 [12.0]	--	--	0 [0]	1.685 [42.8]	1.685 [42.8]	0 [0]	--	--	--	--	--	--
	Y	1.042 [26.5]	0.672 [17.1]	0.302 [7.67]	0.672 [17.1]	--	--	0 [0]	0 [0]	1.347 [34.2]	1.347 [34.2]	--	--	--	--	--	--
	ϕ (max)	0.260 [6.6]	0.260 [6.6]	0.260 [6.6]	0.260 [6.6]	--	--	#10-32 M5	#10-32 M5	#10-32 M5	#10-32 M5	--	--	--	--	--	--

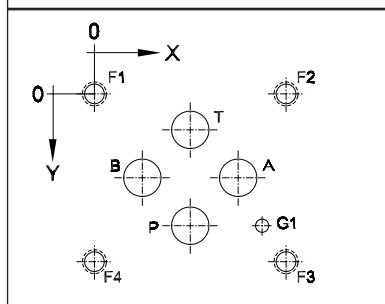
Servo Valve Patterns

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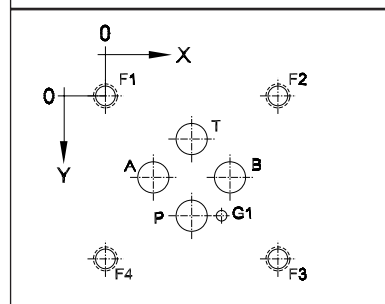
S85 0.850 port circle



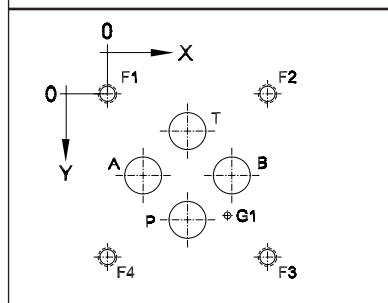
S86 1.000 port circle



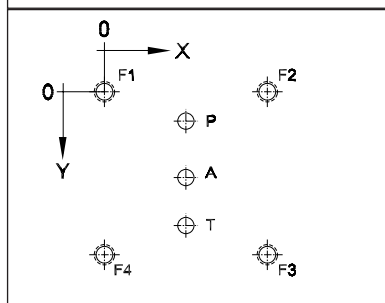
S87 1.000 port circle



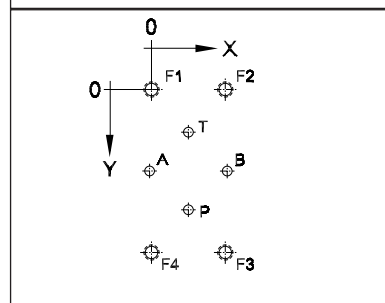
S88 1.800 port circle



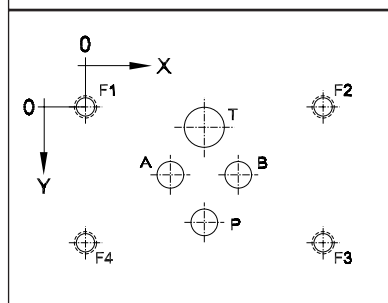
S89



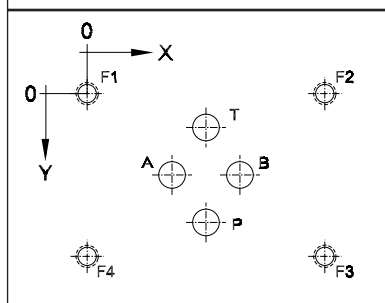
S90 1.000 port circle



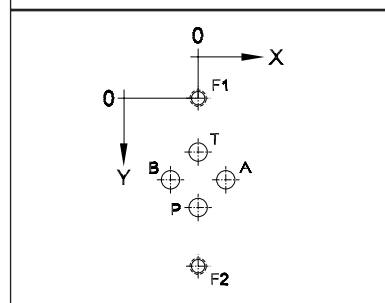
S91



S92



S93 0.850 port circle



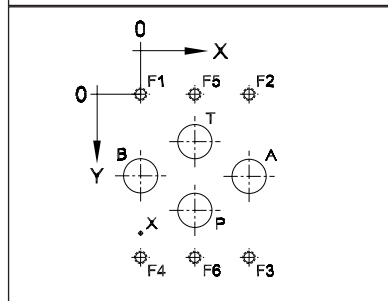
Servo patterns continued pages 204-205

Pattern	Axis	P	A	T	B	X	Y	F1	F2	F3	F4	F5	F6	F7	F8	G1	G2
S85	X	0.843 [21.4]	0.418 [10.6]	0.843 [21.4]	1.268 [32.2]	--	--	0 [0]	1.685 [42.8]	1.685 [42.8]	0 [0]	--	--	--	--	1.232 [31.3]	--
	Y	1.098 [27.9]	0.673 [17.1]	0.248 [6.3]	0.673 [17.1]	--	--	0 [0]	0 [0]	1.347 [34.2]	1.347 [34.2]	--	--	--	--	1.173 [29.8]	--
	φ (max)	0.327 [8.3]	0.327 [8.3]	0.327 [8.3]	0.327 [8.3]	--	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	0.138 [3.5]	--
S86	X	1.000 [25.4]	1.500 [38.1]	1.000 [25.4]	0.500 [12.7]	--	--	0 [0]	2.000 [50.8]	2.000 [50.8]	0 [0]	--	--	--	--	1.750 [44.5]	--
	Y	1.375 [34.9]	0.875 [22.2]	0.375 [9.5]	0.875 [22.2]	--	--	0 [0]	0 [0]	1.750 [44.5]	1.750 [44.5]	--	--	--	--	1.375 [34.9]	--
	φ (max)	0.390 [9.9]	0.390 [9.9]	0.390 [9.9]	0.390 [9.9]	--	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	0.138 [3.5]	--
S87	X	1.125 [28.6]	0.625 [15.9]	1.125 [28.6]	1.625 [41.3]	--	--	0 [0]	2.250 [57.2]	2.250 [57.2]	0 [0]	--	--	--	--	1.515 [38.5]	--
	Y	1.563 [39.7]	1.063 [27.0]	0.563 [14.3]	1.063 [27.0]	--	--	0 [0]	0 [0]	2.125 [54.0]	2.125 [54.0]	--	--	--	--	1.563 [39.7]	--
	φ (max)	0.410 [10.4]	0.410 [10.4]	0.410 [10.4]	0.410 [10.4]	--	--	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	--	--	--	--	0.138 [3.5]	--
S88	X	1.625 [41.3]	0.725 [18.4]	2.18 [55.4]	2.525 [64.1]	--	--	0 [0]	3.250 [82.6]	3.250 [82.6]	0 [0]	--	--	--	--	2.438 [61.9]	--
	Y	2.556 [64.9]	1.656 [42.1]	0.756 [19.2]	1.656 [42.1]	--	--	0 [0]	0 [0]	3.313 [84.1]	3.313 [84.1]	--	--	--	--	2.469 [62.7]	--
	φ (max)	0.750 [19.1]	0.750 [19.1]	0.750 [19.1]	0.750 [19.1]	--	--	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	--	--	--	--	0.138 [3.5]	--
S89	X	0.781 [19.8]	0.781 [19.8]	0.781 [19.8]	--	--	--	0 [0]	1.563 [39.7]	1.563 [39.7]	0 [0]	--	--	--	--	--	--
	Y	0.281 [7.1]	0.821 [20.9]	1.281 [32.5]	--	--	--	0 [0]	0 [0]	1.563 [39.7]	1.563 [39.7]	--	--	--	--	--	--
	φ (max)	0.156 [4.0]	0.156 [4.0]	0.156 [4.0]	--	--	--	#10-24 M5	#10-24 M5	#10-24 M5	#10-24 M5	--	--	--	--	--	--
S90	X	0.474 [12.1]	-0.026 [-0.65]	0.474 [12.1]	0.974 [24.8]	--	--	0 [0]	0.949 [24.1]	0.949 [24.1]	0 [0]	--	--	--	--	--	--
	Y	1.549 [39.4]	1.049 [26.7]	0.549 [14.0]	1.049 [26.7]	--	--	0 [0]	0 [0]	2.098 [53.3]	2.098 [53.3]	--	--	--	--	--	--
	φ (max)	0.126 [3.2]	0.126 [3.2]	0.126 [3.2]	0.126 [3.2]	--	--	#10-24 M5	#10-24 M5	#10-24 M5	#10-24 M5	--	--	--	--	--	--
S91	X	0.875 [22.2]	0.625 [15.9]	0.875 [22.2]	1.125 [28.6]	--	--	0 [0]	1.750 [44.5]	1.750 [44.5]	0 [0]	--	--	--	--	--	--
	Y	0.850 [21.6]	0.500 [12.7]	0.150 [3.8]	0.500 [12.7]	--	--	0 [0]	0 [0]	1.000 [25.4]	1.000 [25.4]	--	--	--	--	--	--
	φ (max)	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	--	--	#4-40 M4	#4-40 M4	#4-40 M4	#4-40 M4	--	--	--	--	--	--
S92	X	0.875 [22.2]	0.625 [12.7]	0.875 [22.2]	1.125 [28.6]	--	--	0 [0]	1.750 [44.5]	1.750 [44.5]	0 [0]	--	--	--	--	--	--
	Y	0.950 [24.1]	0.600 [15.2]	0.250 [6.4]	0.600 [15.2]	--	--	0 [0]	0 [0]	1.200 [30.5]	1.200 [30.5]	--	--	--	--	--	--
	φ (max)	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	--	--	#8-32 M4	#8-32 M4	#8-32 M4	#8-32 M4	--	--	--	--	--	--
S93	X	0 [0]	-0.425 [-10.8]	0 [0]	0.425 [10.8]	--	--	0 [0]	0 [0]	--	--	--	--	--	--	--	--
	Y	1.675 [42.5]	1.250 [31.8]	0.825 [21.0]	1.250 [31.8]	--	--	0 [0]	2.500 [63.5]	--	--	--	--	--	--	--	--
	φ (max)	0.281 [7.1]	0.281 [7.1]	0.281 [7.1]	0.281 [7.1]	--	--	.25-20 M6	.25-20 M6	--	--	--	--	--	--	--	--

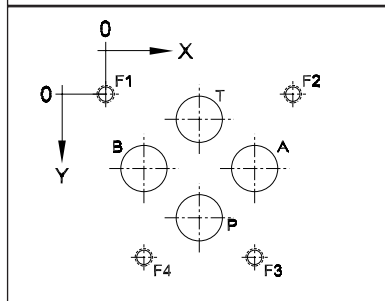
Servo Valve Patterns

These drawings are for reference only. Please consult the appropriate standard when dimensions are critical. Dimensions may vary on our products. It should not be assumed that each hole shown is found on a given product.

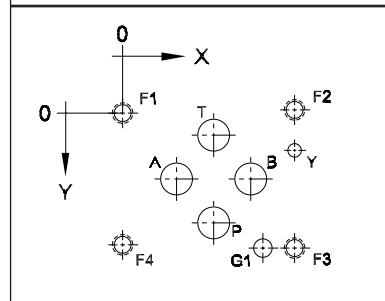
S94



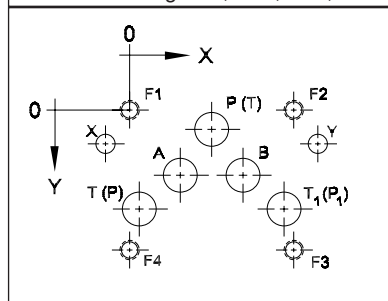
S95 2.000 port circle



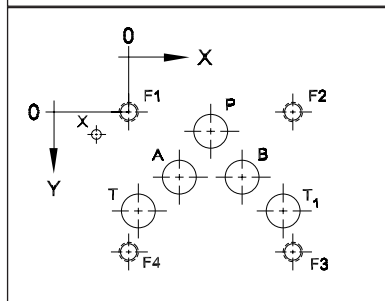
D03 ISO 4401-03-03-0-94



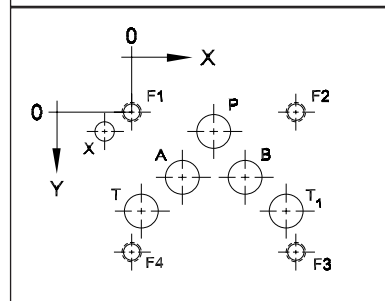
D05HE ISO 4401-05-05-0-94
Moog D634, D661, D681, D691



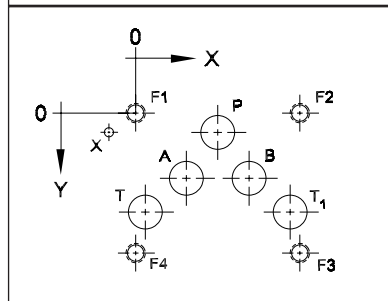
D05-S1 Moog 631, 641, 651



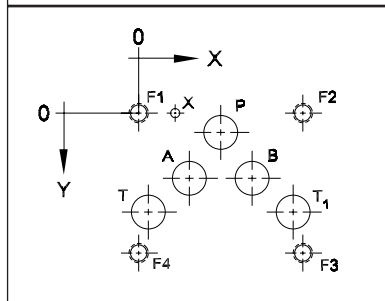
D05-S2 Moog G631



D05-S3 Parker SE31



D05-S4 Rexroth **S*2E*10-*X



D07, D08, D10

Same as ISO / NFPA directional valve patterns. See page 194-195 for dimensions.

Pattern	Axis	P	A	T	T ₁	B	X	Y	F1	F2	F3	F4	F5	F6	F7	G1	G2
S94	X	1.375 [34.9]	2.750 [69.9]	1.375 [34.9]	--	0 [0]	0 [0]	--	0 [0]	2.750 [69.9]	2.750 [69.9]	0 [0]	1.375 [34.9]	1.375 [34.9]	--	--	--
	Y	2.938 [74.6]	2.063 [52.4]	1.188 [30.2]	--	2.063 [52.4]	3.513 [89.2]	--	0 [0]	0 [0]	4.125 [104.8]	4.125 [104.8]	0 [0]	4.125 [104.8]	--	--	--
	φ (max)	0.865 [22.0]	0.865 [22.0]	0.865 [22.0]	--	0.865 [22.0]	0.094 [2.4]	--	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	--	--	--
S95	X	1.900 [48.3]	0.900 [22.9]	1.900 [48.3]	--	2.900 [73.7]	--	--	0 [0]	3.800 [96.5]	3.025 [76.8]	0.775 [19.7]	--	--	--	--	--
	Y	2.510 [63.8]	1.510 [38.4]	0.510 [13.0]	--	1.510 [38.4]	--	--	0 [0]	0 [0]	3.313 [84.1]	3.313 [84.1]	--	--	--	--	--
	φ (max)	0.938 [23.8]	0.938 [23.8]	0.938 [23.8]	--	0.938 [23.8]	--	--	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	--	--	--	--	--
D03	X	0.847 [21.5]	0.500 [12.7]	0.847 [21.5]	--	1.189 [30.2]	--	1.595 [40.5]	0 [0]	1.595 [40.5]	1.595 [40.5]	0 [0]	--	--	--	1.299 [33.0]	--
	Y	1.020 [25.9]	0.610 [15.5]	0.201 [5.1]	--	0.610 [15.5]	--	0.354 [9.0]	0 [0]	-0.030 [-0.75]	1.250 [31.75]	1.221 [31.0]	--	--	--	1.250 [31.75]	--
	φ (max)	0.295 [7.5]	0.295 [7.5]	0.295 [7.5]	--	0.295 [7.5]	--	0.130 [3.3]	#10-24 M5	#10-24 M5	#10-24 M5	#10-24 M5	--	--	--	0.158 [4.0]	--
D05HE	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	-0.315 [-8.0]	2.441 [62.0]	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	0.433 [11.0]	0.433 [11.0]	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--	--
	φ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.248 [6.3]	0.248 [6.3]	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	--
D05-S1	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	-0.417 [-10.6]	--	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	0.291 [7.4]	--	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--	--
	φ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.125 [3.2]	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	--
D05-S2	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	-0.354 [-9.0]	--	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	0.252 [6.4]	--	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--	--
	φ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.248 [6.3]	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	--
D05-S3	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	-0.346 [-8.8]	--	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	0.248 [6.3]	--	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--	--
	φ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.118 [3.0]	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	--
D05-S4	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	0.472 [12.0]	--	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	0 [0]	--	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--	--
	φ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.118 [3.0]	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	--

Custom
Products

Standard
Manifolds

Cover
Plates

Valve
Adaptors

Subplates

Servo Valve
Subplates

Tapping
Plates

DIN Cartridge
Valve Bodies

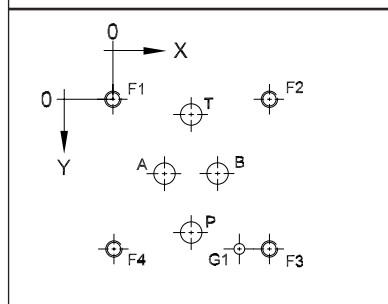
Header and
Junction Blocks

Technical
Information

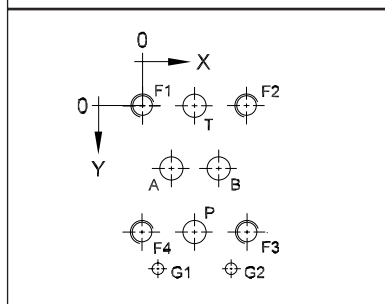
“Obsolete Valve” Patterns

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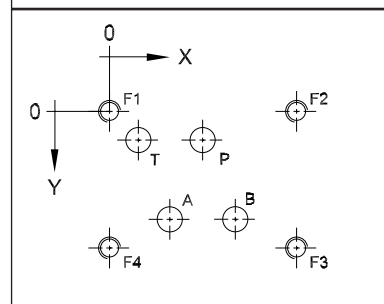
Racine 01Q



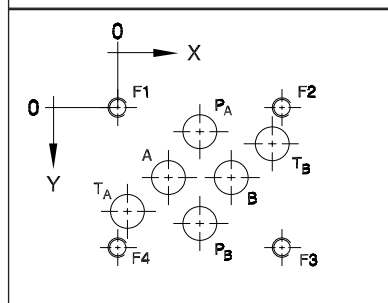
Racine 01S



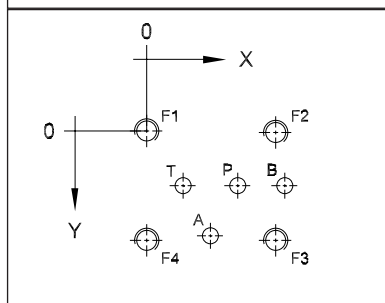
Parker D1B



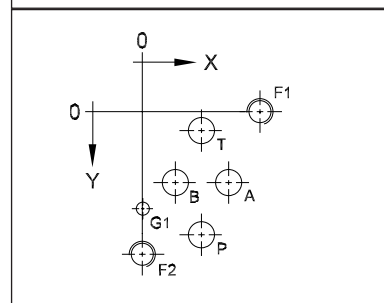
Denison D1D04



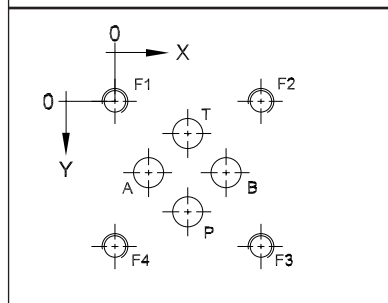
Vickers D1L • Rexroth WE5



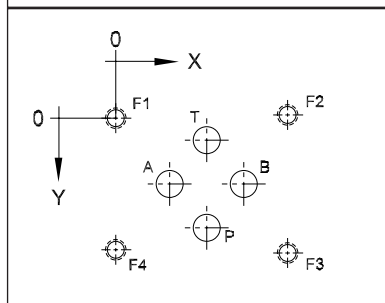
Vickers DG4M4



Republic R8143

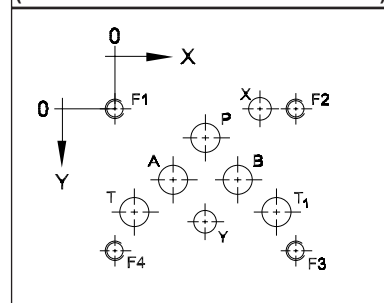


Rivett RVT65



Vickers DG4S4-02

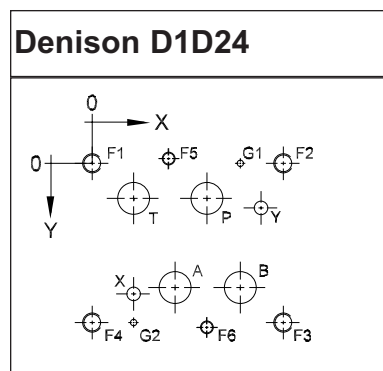
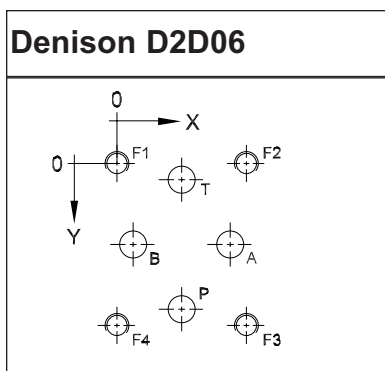
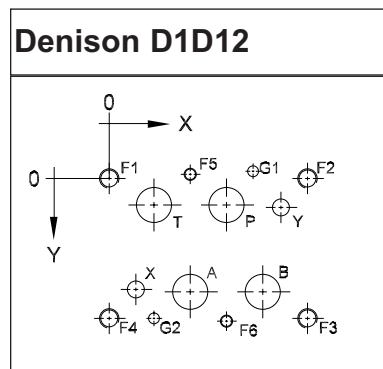
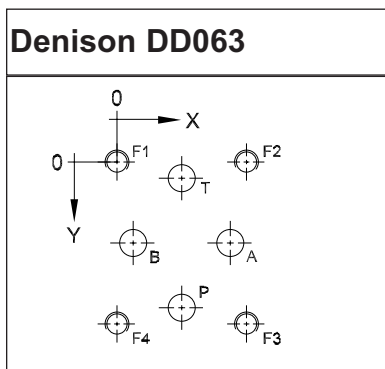
(Same as D06 • NFPA T3.5.1 R2 D06)



Pattern	Axis	P	A	T	T ₁	B	X (P _B)	Y	F1	F2	F3	F4	G1	G2
01Q	X	0.91 [23.0]	0.59 [15.1]	0.91 [23.0]	--	1.22 [31.0]	--	--	0 [0]	1.81 [46.0]	1.81 [46.0]	0 [0]	1.47 [37.3]	--
	Y	1.56 [39.7]	0.88 [22.2]	0.19 [4.9]	--	0.88 [22.3]	--	--	0 [0]	0 [0]	1.75 [44.5]	1.75 [44.5]	1.75 [44.5]	--
	φ (max)	0.25 [6.3]	0.19 [4.8]	0.25 [6.3]	--	0.19 [4.8]	--	--	#10-24 #10-24	#10-24 #10-24	#10-24 #10-24	#10-24 #10-24	0.16 [4.0]	--
01S	X	0.61 [15.5]	0.30 [7.6]	0.61 [15.5]	--	0.92 [23.4]	--	--	0 [0]	1.22 [30.9]	1.22 [30.9]	0 [0]	0.24 [6.1]	0.98 [25.0]
	Y	1.37 [35.0]	0.69 [17.5]	0 [0]	--	0.69 [17.5]	--	--	0 [0]	0 [0]	1.37 [35.0]	1.37 [35.0]	1.75 [44.5]	1.75 [44.5]
	φ (max)	0.25 [6.3]	0.19 [4.8]	0.25 [6.3]	--	0.19 [4.8]	--	--	.25-20 .25-20	.25-20 .25-20	.25-20 .25-20	.25-20 .25-20	0.16 [4.0]	0.16 [4.0]
D1B	X	0.81 [20.6]	0.53 [13.5]	0.25 [6.4]	--	1.09 [27.7]	--	--	0 [0]	1.63 [41.3]	1.63 [41.3]	0 [0]	--	--
	Y	0.25 [6.4]	0.94 [23.8]	0.25 [6.4]	--	0.94 [23.8]	--	--	0 [0]	0 [0]	1.19 [30.2]	1.19 [30.2]	--	--
	φ (max)	0.22 [5.6]	0.22 [5.6]	0.22 [5.6]	--	0.22 [5.6]	--	--	#10-32 #10-32	#10-32 #10-32	#10-32 #10-32	#10-32 #10-32	--	--
D1D04	X	1.06 [27.0]	0.72 [16.3]	0.16 [4.0]	1.97 [50.0]	1.44 [36.5]	1.06 [27.0]	--	0 [0]	2.125 [54.0]	2.125 [54.0]	0 [0]	--	--
	Y	0.34 [8.7]	0.91 [23.0]	1.22 [31.0]	0.59 [15.1]	0.91 [23.0]	1.47 [37.3]	--	0 [0]	0 [0]	1.812 [46.0]	1.812 [46.0]	--	--
	φ (max)	0.38 [9.6]	0.38 [9.6]	0.38 [9.6]	0.38 [9.6]	0.38 [9.6]	0.38 [9.6]	--	.25-20 .25-20	.25-20 .25-20	.25-20 .25-20	.25-20 .25-20	--	--
D1L, WE5	X	0.72 [18.1]	0.51 [12.8]	0.30 [7.4]	--	1.09 [27.6]	--	--	0 [0]	1.02 [25.6]	1.02 [25.6]	0 [0]	--	--
	Y	0.42 [10.9]	0.81 [20.7]	0.42 [10.9]	--	0.42 [10.9]	--	--	0 [0]	0 [0]	0.84 [21.4]	0.84 [21.4]	--	--
	φ (max)	0.13 [3.2]	0.13 [3.2]	0.13 [3.2]	--	0.13 [3.2]	--	--	#10-24 #10-24	#10-24 #10-24	#10-24 #10-24	#10-24 #10-24	--	--
DG4M4	X	0.57 [14.4]	0.82 [20.6]	0.57 [14.4]	--	0.32 [8.1]	--	--	1.13 [28.7]	0 [0]	--	--	0 [0]	--
	Y	1.19 [30.1]	0.69 [17.5]	0.19 [4.8]	--	0.69 [17.5]	--	--	0 [0]	1.37 [34.7]	--	--	0.94 [23.8]	--
	φ (max)	0.25 [6.3]	0.25 [6.3]	0.25 [6.3]	--	0.25 [6.3]	--	--	.25-20 .25-20	.25-20 .25-20	--	--	0.16 [4.0]	--
R8143	X	1.06 [27.0]	0.50 [12.7]	1.06 [27.0]	--	0.50 [12.7]	--	--	0 [0]	2.13 [54.0]	2.13 [54.0]	0 [0]	--	--
	Y	1.60 [40.6]	1.05 [26.7]	0.48 [12.2]	--	1.05 [26.7]	--	--	0 [0]	0 [0]	2.11 [53.7]	2.11 [53.7]	--	--
	φ (max)	0.44 [11.1]	0.44 [11.1]	0.44 [11.1]	--	0.44 [11.1]	--	--	.38-16 .38-16	.38-16 .38-16	.38-16 .38-16	.38-16 .38-16	--	--
RVT65	X	0.85 [21.5]	0.50 [12.7]	0.85 [21.5]	--	1.19 [30.2]	--	--	0 [0]	1.60 [40.6]	1.60 [40.6]	0 [0]	--	--
	Y	1.09 [27.6]	0.61 [15.7]	0.15 [3.8]	--	0.61 [15.7]	--	--	0 [0]	-0.03 [-0.8]	1.26 [32.0]	1.23 [31.3]	--	--
	φ (max)	0.31 [7.9]	0.31 [7.9]	0.31 [7.9]	--	0.31 [7.9]	--	--	#10-24 #10-24	#10-24 #10-24	#10-24 #10-24	#10-24 #10-24	--	--
DG4S4 -02 (D06)	X	1.750 [44.5]	1.120 [28.5]	0.380 [9.7]	3.120 [79.3]	2.380 [60.5]	2.810 [71.4]	1.75 [44.5]	0 [0]	3.500 [88.9]	3.500 [88.9]	0 [0]	--	--
	Y	0.560 [14.3]	1.380 [35.1]	2.000 [50.8]	2.000 [50.8]	1.380 [35.1]	0 [0]	2.180 [55.4]	0 [0]	0 [0]	2.75 [69.9]	2.75 [69.9]	--	--
	φ (max)	0.580 [14.7]	0.580 [14.7]	0.580 [14.7]	0.580 [14.7]	0.580 [14.7]	0.440 [11.2]	0.440 [11.2]	.38-16 .38-16	.38-16 .38-16	.38-16 .38-16	.38-16 .38-16	--	--

“Obsolete Valve” Patterns

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Pattern	Axis	P	A	T	B	X	Y	F1	F2	F3	F4	F5	F6	G1	G2
DD063	X	1.50 [38.1]	2.63 [66.7]	1.50 [38.1]	0.38 [9.5]	--	--	0 [0]	3.00 [76.2]	3.00 [76.2]	0 [0]	--	--	--	--
	Y	3.38 [85.7]	1.88 [47.6]	0.38 [9.5]	1.88 [47.6]	--	--	0 [0]	0 [0]	3.75 [95.3]	3.75 [95.3]	--	--	--	--
	φ (max)	0.63 [15.9]	0.63 [15.9]	0.63 [15.9]	0.63 [15.9]	--	--	.50-13 [12.7-13.0]	.50-13 [12.7-13.0]	.50-13 [12.7-13.0]	.50-13 [12.7-13.0]	--	--	--	--
D1D12	X	3.03 [77.0]	2.09 [53.2]	1.16 [29.4]	3.97 [100.8]	0.69 [17.5]	4.44 [112.7]	0 [0]	5.12 [130.2]	5.12 [130.2]	0 [0]	2.31 [58.7]	3.00 [76.2]	3.72 [94.5]	1.16 [29.4]
	Y	0.69 [17.5]	2.93 [74.6]	0.69 [17.5]	2.93 [74.6]	2.88 [73.0]	0.75 [19.0]	0 [0]	0 [0]	3.62 [92.1]	3.62 [92.1]	-0.09 [-2.4]	3.72 [94.5]	-0.19 [-4.8]	3.62 [92.1]
	φ (max)	0.91 [23.0]	0.91 [23.0]	0.91 [23.0]	0.91 [23.0]	0.44 [11.2]	0.44 [11.2]	.50-13 [12.7-13.0]	.50-13 [12.7-13.0]	.50-13 [12.7-13.0]	.50-13 [12.7-13.0]	.31-18 [7.9-45.7]	.31-18 [7.9-45.7]	0.28 [7.1]	0.28 [7.1]
D2D06	X	1.50 [38.1]	2.63 [66.7]	1.50 [38.1]	0.38 [9.5]	--	--	0 [0]	3.00 [76.2]	3.00 [76.2]	0 [0]	--	--	--	--
	Y	3.38 [85.7]	1.88 [47.6]	0.38 [9.5]	1.88 [47.6]	--	--	0 [0]	0 [0]	3.75 [95.3]	3.75 [95.3]	--	--	--	--
	φ (max)	0.63 [15.9]	0.63 [15.9]	0.63 [15.9]	0.63 [15.9]	--	--	.50-13 [12.7-13.0]	.50-13 [12.7-13.0]	.50-13 [12.7-13.0]	.50-13 [12.7-13.0]	--	--	--	--
D1D24	X	4.50 [114.3]	3.25 [82.5]	1.63 [41.3]	5.81 [147.6]	1.63 [41.3]	6.63 [168.3]	0 [0]	7.50 [190.5]	7.50 [190.5]	0 [0]	3.00 [76.2]	4.50 [114.3]	5.46 [138.6]	1.62 [41.3]
	Y	1.38 [35.0]	4.87 [123.8]	1.38 [35]	4.87 [123.8]	5.13 [130.2]	1.75 [44.5]	0 [0]	0 [0]	6.25 [158.8]	6.25 [158.8]	0 [0]	6.25 [158.8]	0 [0]	6.25 [158.8]
	φ (max)	1.25 [32.0]	1.25 [32.0]	1.25 [32.0]	1.25 [32.0]	0.44 [11.2]	0.44 [11.2]	.75-10 [19.0-25.4]	.75-10 [19.0-25.4]	.75-10 [19.0-25.4]	.75-10 [19.0-25.4]	.50-13 [12.7-13.0]	.50-13 [12.7-13.0]	0.28 [7.1]	0.28 [7.1]