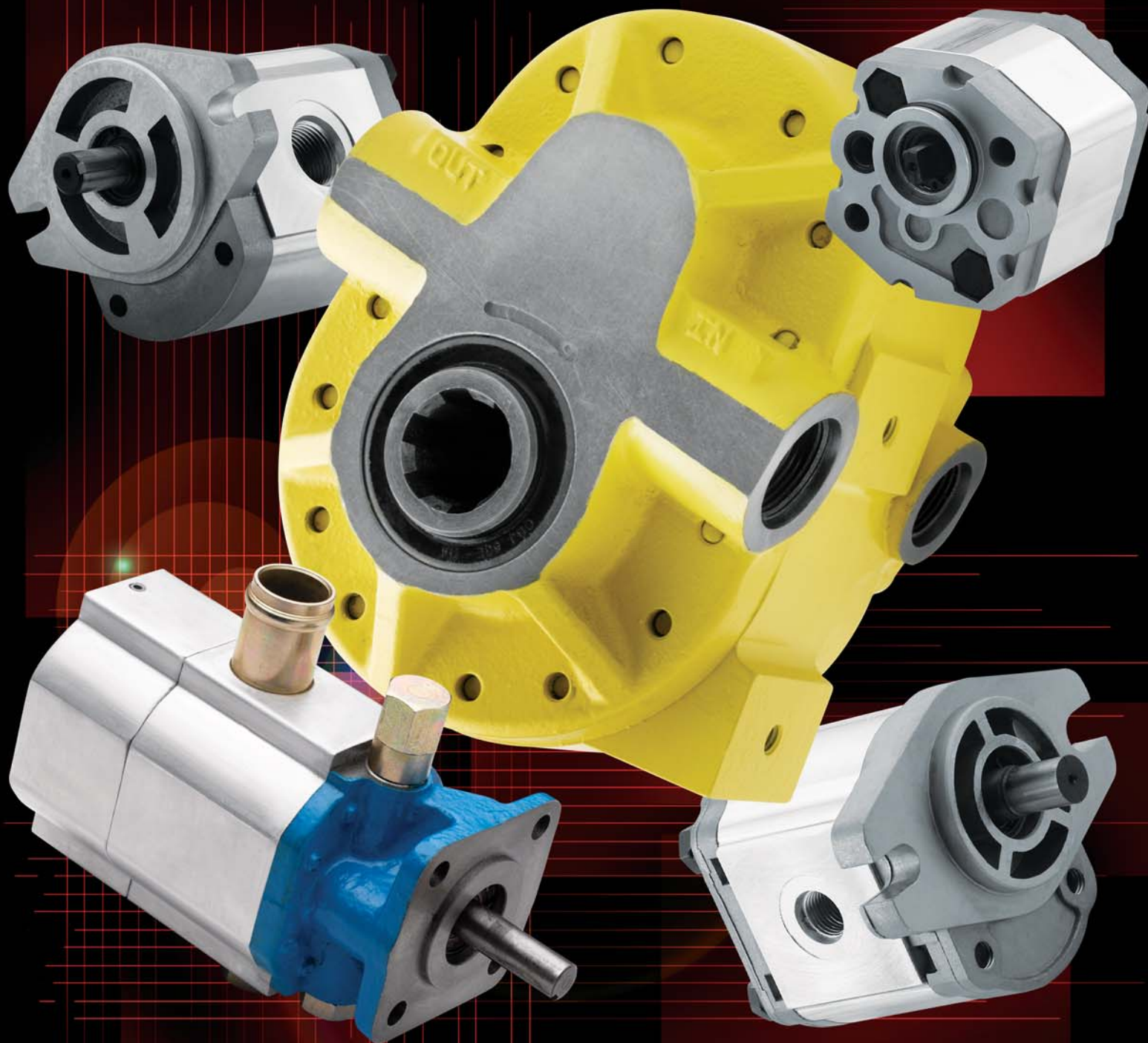


DYNAMIC

FLUID COMPONENTS, INC.



HYDRAULIC PUMPS

P.O. BOX 100, WEST UNION, SOUTH CAROLINA 29696 USA

dynamic@dynamicfc.com 1-800-988-1276 1-864-638-5544

Fax: 1-864-638-0005

Catalog GP-2009

Introduction

Dynamic Fluid Components, Inc. present their extended range of Fixed Displacement, Pressure Balanced, Hydraulic Gear Pumps.

These products are manufactured in accordance with the requirements of ISO 9000-2000 quality system and are produced under the most stringent manufacturing conditions while supported by an advanced test and development facility.

New products presented in this catalog include:

GP-F25	-	A pressure balanced gear pump with displacements from 1.22 to 3.86 Cu. In/Rev. with Cast Iron end Plates
GP-CBN	-	22 & 28 GPM dual stage HI/LO gear pump.
GPD-GPT	-	Double and Triple pumps assembled from the GP-F10 GP-F20 and GP-F25 series pumps.
FD	-	A rotary gear type flow divider with 6 displacements from .132 to .538 Cu.In/ Rev.
PTO	-	A PTO driven gear pump with 4 displacements from 3.41 to 9.76 Cu. In/Rev

We welcome your inquiries for hydraulic pumps or pump features not shown in this catalog. Please feel free to contact our team of sales specialists by calling 1-800-988-1276 from anywhere within North America. We look forward to being of service to you from our extensive inventory located in West Union, South Carolina.

Product Index

<u>Series</u>		<u>Page</u>
GP-F0	Mini Thru-Bolt Mount	2
GP-F1	Thru-Bolt Mount	3
GP-F10	SAE AA 2-Bolt Mount	4
GP-F20	SAE A 2-Bolt Flange	5
GP-F25	SAE B 2-Bolt Flange	6
GP-F20D	Double Pump	7
GP-CBN	Dual Stage Hi/Lo Pump	8
GP-PTO	PTO driven gear pump.....	10
FD	Rotary gear type flow divider.....	12

Hydraulic Gear Pump Model GP-F0

Technical Data

Model GP-F0 is an all aluminium construction, high pressure Mini Hydraulic Gear Pump with 12 displacement sizes from 0.009 to 0.120 cu.in/rev. (0.16 to 2.00 cm³/rev). The standard mounting flange is as detailed on the installation drawing and porting is any combination of rear, front or side as defined in the Ordering Example.

Recommended working conditions:

FILTRATION: 25 micron or better/OIL VISCOSITY 6 to 200 cSt/ INLET PRESSURE 12 to 32 psi absolute.

TEMPERATURE OIL-25 to 80 degrees C (-12 to 175 degrees F). AMBIENT -22 to 55 degrees C.



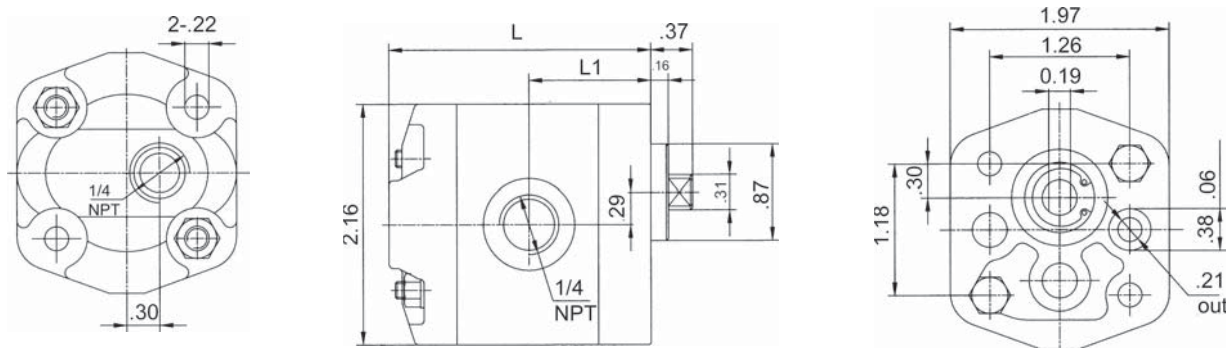
Model	Displacement		Pressure		Speed RPM		Weight	
	cu.in/rev	cm ³ /rev	Rated	Peak	Rated	Max	Lbs.	Kg
GP-F0-016	0.009	0.16	2750	3335	2000	7000	0.82	0.37
GP-F0-025	0.015	0.25	2750	3335	2000	7000	0.84	0.38
GP-F0-038	0.023	0.38	2750	3335	2000	7000	0.85	0.38
GP-F0-050	0.030	0.50	2750	3335	2000	7000	0.87	0.39
*GP-F0-070	0.043	0.70	2750	3335	2000	7000	0.90	0.40
GP-F0-075	0.045	0.75	2750	3335	2000	7000	0.91	0.41

Model	Displacement		Pressure		Speed RPM		Weight	
	cu.in/rev	cm ³ /rev	Rated	Peak	Rated	Max	Lbs.	Kg
*GP-F0-084	0.051	0.84	2750	3335	2000	6000	0.91	0.41
GP-F0-100	0.060	1.00	2750	3335	2000	6000	0.92	0.42
GP-F0-125	0.080	1.25	2750	3335	2000	5000	1.00	0.45
GP-F0-150	0.090	1.50	2750	3335	2000	4000	1.04	0.47
GP-F0-175	0.110	1.75	2750	3335	2000	4000	1.08	0.49
GP-F0-200	0.120	2.00	2750	3335	2000	3500	1.13	0.51

Flow rate in gpm - Displacement (cu.in/rev) X speed (rpm) / 231

Volumetric efficiency % ≥93

Installation Data



Model	L		L1		Model	L		L1	
	mm	In.	mm	In.		mm	In.	mm	In.
GP-F0-016	61	2.40	30.5	1.20	GP-F0-084	67	2.63	33.5	1.31
GP-F0-025	62	2.44	31	1.22	GP-F0-100	68	2.67	34	1.34
GP-F0-038	62.5	2.46	31.25	1.23	GP-F0-125	71	2.79	35.5	1.40
GP-F0-050	63	2.48	31.25	1.23	GP-F0-150	73	2.87	36.5	1.44
GP-F0-070	65	2.56	32.5	1.28	GP-F0-175	75	2.95	37.5	1.48
GP-F0-075	66	2.59	33	1.30	GP-F0-200	77	3.03	38.5	1.51

Ordering Information

GP	-	F0	-	016	-	T	-	C	-	1
Aluminum Gear Pump		High Pressure Series		Displacement cm ³ /rev (see chart) 016/025/038 050/*070/075/*084 100/125/150/175/200		Drive Shaft T-Flat Tang		Rotation Direction C-Clockwise A-Counter Clockwise (viewed from shaft end)		Port Options Omit-Standard (see drawing) 1-1/4 NPT Side Ports *2-Bi-directional Rotation *3-Free Running (Reduced Eff.) * Special order only Minimums may apply

Hydraulic Gear Pump Model GP-F1

Technical Data

Model GP-F1 is an all aluminium construction, high pressure Hydraulic Gear Pump with 15 displacement sizes from 0.05 to 0.48 cu.in/rev. (0.8 to 8.0 cm³/rev).

The standard mounting flange is as detailed on the installation drawing and porting is any combination of rear, front or side as defined in the Ordering Example. The drive shaft options include flat tang or tapered keyed.



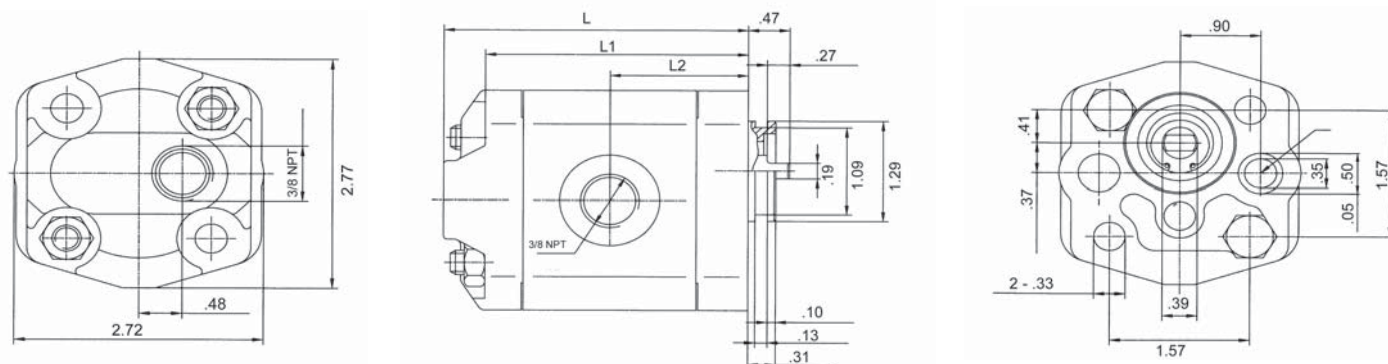
Model	Displacement		Pressure		Speed RPM		Weight	
	cu.in/rev	cm ³ /rev	Rated	Peak	Rated	Max	Lbs.	Kg
*GP-F1-08	0.05	0.80	2900	3626	2000	6000	1.65	0.75
GP-F1-11	0.06	1.1	2900	3626	2000	6000	1.69	0.77
GP-F1-13	0.07	1.3	2900	3626	2000	6000	1.73	0.79
GP-F1-16	0.09	1.6	2900	3626	2000	6000	1.76	0.80
GP-F1-18	0.11	1.8	2900	3626	2000	6000	1.77	0.81
GP-F1-21	0.12	2.1	2900	3626	2000	6000	1.80	0.82
GP-F1-27	0.16	2.7	2900	3626	2000	6000	1.87	0.85
GP-F1-32	0.19	3.2	2900	3626	2000	5000	1.91	0.87

Model	Displacement		Pressure		Speed RPM		Weight	
	cu.in/rev	cm ³ /rev	Rated	Peak	Rated	Max	Lbs.	Kg
GP-F1-37	0.22	3.7	2900	3626	2000	4500	1.98	0.90
GP-F1-42	0.25	4.2	2900	3626	2000	4000	2.02	0.92
GP-F1-48	0.29	4.8	2320	2900	2000	3500	2.09	0.95
GP-F1-58	0.35	5.8	2320	2900	2000	2900	2.20	1.00
*GP-F1-60	0.36	6.0	2320	2900	2000	2750	2.25	1.02
*GP-F1-70	0.43	7.0	2320	2900	2000	2500	2.34	1.06
GP-F1-80	0.48	8.0	2320	2900	2000	2100	2.42	1.10

Flow rate in gpm - Displacement (cu.in/rev) X speed (rpm) / 231

Volumetric efficiency % ≥93

Installation Data



Model	L		L1		L2	
	mm	In.	mm	In.	mm	In.
*GP-F1-08	73	2.87	61	2.40	32	1.26
GP-F1-11	74	2.91	62	2.44	33	1.30
GP-F1-13	75	2.95	63	2.48	33.5	1.32
GP-F1-16	76	2.99	64	2.52	34	1.34
GP-F1-18	77	3.03	65	2.56	34.5	1.36
GP-F1-21	78	3.07	66	2.60	35	1.38
GP-F1-27	80	3.15	68	2.68	36	1.42

Model	L		L1		L2	
	mm	In.	mm	In.	mm	In.
GP-F1-32	82	3.23	70	2.76	37	1.46
GP-F1-37	84	3.31	72	2.83	38	1.50
GP-F1-42	86	3.39	74	2.91	39	1.53
GP-F1-48	88	3.46	76	2.99	40	1.57
GP-F1-58	92	3.62	80	3.15	42	1.65
*GP-F1-60	93	3.66	81	3.18	43	1.69
*GP-F1-70	96	3.77	84	3.30	45	1.77
GP-F1-80	100	3.94	88	3.46	46	1.81

Ordering Information

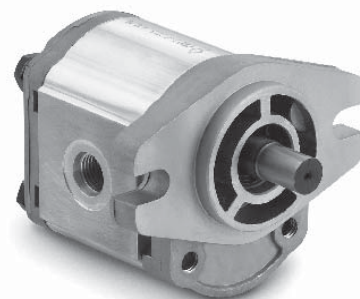
GP	-	F1	-	16	-	T	-	C	-	1
Aluminum Gear Pump		High Pressure Series		Displacement cm ³ /rev (see chart) 08/11/13/16/18 21/27/32/37 42/48/58/60 70/80		Drive Shaft T-Flat Tang Z-Taper		Rotation Direction C-Clockwise A-Counter Clockwise (viewed from drive shaft end)		Port Options Omit-Standard (see drawing) 1- 3/8 NPT Side Ports Other Option *3- Free Running (reduced Eff.) *Special order only Minimums may apply

Hydraulic Gear Pump Model GP-F10

Technical Data

Model GP-F10 is an all aluminium construction, high pressure Hydraulic Gear Pump with 7 displacement sizes from 0.07 to 0.48 cu.in/rev. (1.3 to 8.0 cm3/rev).

The standard mounting flange is SAE AA – 2 bolt, standard ports are SAE-8 inlet and SAE-6 outlet, and standard drive shaft is 1/2 inch straight shaft with 1/8 inch key.



Model	Displacement		Pressure		Speed RPM		Weight	
	cu.in/rev	cm3/rev	PSI	Mpa	Rated	Max	Lbs.	Kg
GP-F10-13	0.07	1.3	3625	25	2000	5000	2.02	0.92
GP-F10-20	0.12	2.0	3625	25	2000	5000	2.31	1.05
GP-F10-27	0.16	2.7	3625	25	2000	5000	2.68	1.22
GP-F10-34	0.20	3.4	3625	25	2000	5000	2.99	1.36
GP-F10-41	0.25	4.1	3625	25	2000	4000	3.34	1.52
GP-F10-51	0.31	5.1	3625	25	2000	4000	3.78	1.72
GP-F10-61	0.37	6.1	3625	25	2000	4000	4.18	1.90
GP-F10-80	0.48	8.0	3480	24	2000	4000	5.01	2.27

Recommended working conditions:

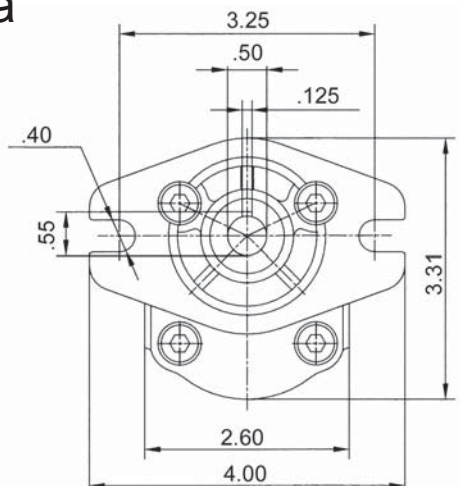
1. FILTRATION 25 micron or better
2. OIL VISCOSITY 6 to 200 cSt
3. INLET PRESSURE 12 to 32 psi abs.
4. OIL TEMPERATURE -25 to 80 degrees C (-12 to 175 degrees F).
5. AMBIENT -22 to 55 degrees C (-8 to 130 degrees F).

Flow rate in gpm

Displacement (cu.in/rev) X speed (rpm) / 231

Volumetric efficiency % ≥93

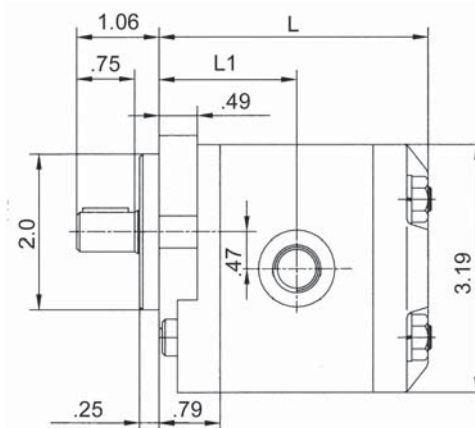
Installation Data



Port Sizes

Inlet - SAE-8 (3/4-16)

Outlet - SAE-6 (9/16-18)



Model	L		L1		SAE Ports	
	mm	In.	mm	In.	in	out
GP-F10-13	82	3.23	42	1.65	-8	-6
GP-F10-20	84	3.30	43	1.69	-8	-6
GP-F10-27	86	3.39	44	1.73	-8	-6
GP-F10-34	88	3.46	45	1.77	-8	-6

Model	L		B	SAE Ports		
	mm	In.		In.	in	out
GP-F10-41	90	3.54	46	1.81	-8	-6
GP-F10-51	93	3.66	47.5	1.87	-8	-6
GP-F10-61	96	3.78	49	1.93	-8	-6
GP-F10-80	101	3.97	51.5	2.01	-8	-6

Ordering Information

GP	-	F10	-	20	-	P	-	C
Aluminum Gear Pump		High Pressure Series		Displacement cm3/rev (see chart) 13/20/27/34 41/51/61/80		Drive Shaft P-1/2 Dia Straight		Rotation Direction C– Clockwise A–Counter Clockwise (viewed from drive shaft end)

Hydraulic Gear Pump Model GP-F20

Technical Data

Model GP-F20 offers aluminium body and cast Iron end plate construction, high pressure Hydraulic Gear Pump with 11 displacement sizes from 0.24 to 1.95 cu.in/rev. (4 to 32 cm³/rev). The standard mounting flange is SAE A – 2 bolt, The standard drive shaft is a 5/8 inch diameter straight with 5/32 straight key.



Model	Displacement		Pressure		Speed RPM		Weight	
	cu.in/rev	cm ³ /rev	PSI	Mpa	Rated	Max	Lbs.	Kg
GP-F20-04	0.24	4	3650	25	2000	3600	7.80	3.54
GP-F20-06	0.36	6	3650	25	2000	3600	8.05	3.65
GP-F20-08	0.48	8	3650	25	2000	3600	8.25	3.74
GP-F20-10	0.61	10	3650	25	2000	3600	8.30	3.76
GP-F20-12	0.73	12	3650	25	2000	3600	8.55	3.88
GP-F20-14	0.85	14	3650	25	2000	3600	8.70	3.95
GP-F20-16	0.97	16	2900	20	2000	3600	8.85	4.01
GP-F20-20	1.22	20	2900	20	2000	3600	9.30	4.22
GP-F20-25	1.52	25	2900	20	2000	3600	9.80	4.45
GP-F20-30	1.83	30	2300	16	2000	3600	10.25	4.65
GP-F20-32	1.95	32	2300	16	2000	3600	10.50	4.76

Recommended working conditions:

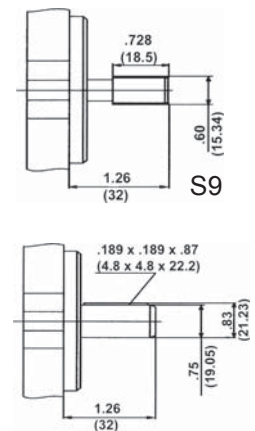
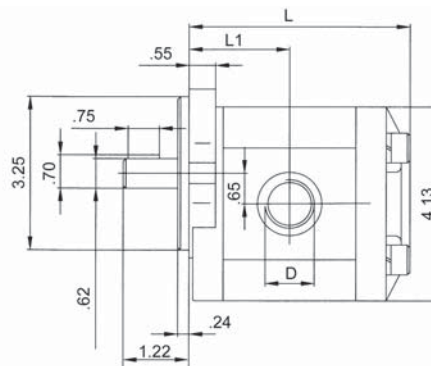
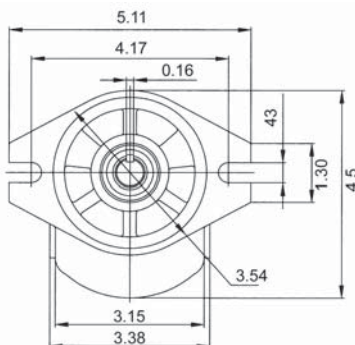
1. FILTRATION 25 micron or better
2. OIL VISCOSITY 6 to 200 cSt
3. INLET PRESSURE 12 to 32 psi abs.
4. OIL TEMPERATURE -25 to 80 degrees C (-12 to 175 degrees F).
5. AMBIENT -22 to 55 degrees C (-8 to 130 degrees F).

Flow rate in gpm

Displacement (cu.in/rev) X speed (rpm) / 231

Volumetric efficiency % ≥93

Installation Data



P1

Model	L		L1		SAE Ports	
	mm	In.	mm	In.	In	Out
GP-F20-04	96	3.78	44	1.73	-12	-10
GP-F20-06	98	3.87	45	1.77	-12	-10
GP-F20-08	102	4.01	47	1.85	-12	-10
GP-F20-10	104	4.12	48	1.89	-12	-10
GP-F20-12	108	4.25	50	1.97	-12	-10
GP-F20-14	110	4.35	51	2.00	-12	-10

Model	L		L1		SAE Ports	
	mm	In.	mm	In.	In	Out
GP-F20-16	114	4.50	53	2.08	-12	-10
GP-F20-20	120	4.72	56	2.20	-12	-10
GP-F20-25	128	5.05	60	2.36	-12	-10
GP-F20-30	136	5.35	64	2.52	-16	-12
GP-F20-32	147	5.79	73	2.87	-16	-12

Ordering Information

GP - F20 - 16 - P - C

Aluminum
Gear Pump

High
Pressure
Series

Displacement
cm³/rev
(see chart)
04/06/08/10/12
14/16/20/25/30
32

Drive
Shaft
P-5/8 Dia
Straight
P1-3/4 Dia
Straight
S9-Spline 9 tooth

Rotation
Direction
C– Clockwise
A–Counter Clockwise
(viewed from drive shaft end)

Additional optional shafts
available please consult factory

Hydraulic Gear Pump Model GP-F25

Technical Data

Model GP-F25 is a aluminium center section and cast iron end plate construction, high pressure Hydraulic Gear Pump with 10 displacement sizes from 1.34 to 5.43 cu. in/rev (22 to 89 ml/rev). The standard mounting flange is SAE-B (2 Bolt), 7/8 inch diameter parallel keyed drive shaft and SAE threaded ports.



Model	Displacement		Pressure		Speed RPM		Weight	
	cu.in/rev	cm3/rev	PSI	Mpa	Rated	Max	Lbs.	Kg
GP-F25-22	1.34	22	3625	25	2000	3000	9.40	4.2
GP-F25-26	1.57	26	3625	25	2000	3000	9.90	4.5
GP-F25-34	2.07	34	3625	25	2000	3000	10.6	4.8
GP-F25-39	2.38	39	3625	25	2000	3000	11.65	5.3
GP-F25-43	2.62	43	3625	25	2000	2800	12.75	5.8
GP-F25-51	3.11	51	3625	25	2000	2800	13.27	6.0
GP-F25-63	3.84	60	2900	20	1500	2800	13.64	6.2
*GP-F25-70	4.27	70	2900	20	1500	2500	13.85	6.3
*GP-F25-78	4.76	78	2900	20	1500	2300	14.10	6.4
*GP-F25-89	5.43	89	2600	18	1500	2000	14.55	6.6

Recommended working conditions:

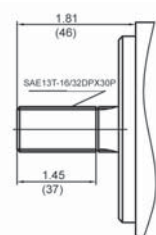
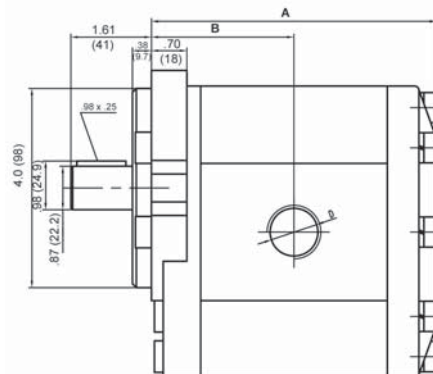
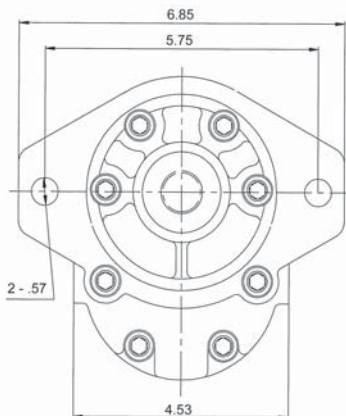
1. FILTRATION 25 micron or better
2. OIL VISCOSITY 6 to 200 cSt
3. INLET PRESSURE 12 to 32 psi abs.
4. OIL TEMPERATURE -25 to 80 degrees C (-12 to 175 degrees F).
5. AMBIENT -22 to 55 degrees C (-8 to 130 degrees F).

Flow rate in gpm

Displacement (cu.in/rev) X speed (rpm) / 231

Volumetric efficiency % ≥93

Installation Data



S13

Model	L		L1		SAE Ports	
	mm	In.	mm	In.	in	out
GP-F25-22	131	5.16	66	2.60	-16	-12
GP-F25-26	134	5.27	67	2.63	-16	-12
GP-F25-34	139	5.47	69	2.71	-16	-12
GP-F25-39	143	5.62	71	2.79	-16	-12
GP-F25-43	147	5.78	73	2.87	-16	-12

Model	L		L1		SAE Ports	
	mm	In.	mm	In.	in	out
GP-F25-51	152	5.98	76	2.99	-16	-12
GP-F25-63	158	6.22	79	3.11	-16	-12
*GP-F25-70	166	6.53	82	3.22	-20	-16
*GP-F25-78	171	6.73	85	2.34	-20	-16
*GP-F25-89	176	6.93	88	2.46	-20	-16

Ordering Information

GP - F25 - 39 - P - C

Aluminum
Gear Pump

High
Pressure
Series

Displacement
cm3/rev
(see chart)
22/26/34
39/43/51
60/*70/*78/*89

Drive
Shaft
P-7/8 Dia
Straight
S13-Spline

Rotation
Direction
C- Clockwise
A-Counter Clockwise
(viewed from drive shaft end)

*Special order only
Minimums may apply

Double and Triple Gear Pumps



Technical Data

Dynamic gear pump Models GP-F10, GP-F20 and GP-F25 are available with features that allow pumps to be stacked to produce Double and Triple pumps from the base model. Technical data including displacement sizes, working pressure, rated speed etc. is as per the first position pump model. For example model **GPD-F20/25-F10/08-S9-C** is a dual pump with displacements of 25mL/rev and 8 mL/rev.(1.52 and .48 cu.in/rev.) rated at 2000 rpm and 2900 psi with a 9 tooth spline drive shaft and clockwise rotation.

- Recommended working conditions:
- 1. FILTRATION 25 micron or better
 - 2. OIL VISCOSITY 6 to 200 cSt
 - 3. INLET PRESSURE 12 to 32 psi abs.
 - 4. OIL TEMPERATURE -25 to 80 degrees C
(-12 to 175 degrees F).
 - 5. AMBIENT -22 to 55 degrees C
(-8 to 130 degrees F).

Flow rate in gpm
Displacement
(cu.in/rev) X speed (rpm) / 231
Volumetric efficiency % ≥93

Installation Data

Contact Dynamic for installation information on specific models.

Ordering Information

<u>GPD</u>	-	<u>F20/25</u>	-	<u>F10/08</u>	-	<u>P</u>	-	<u>C</u>
Gear Pump D - Double T - Triple		Pump 1 Series/size (see charts)		Pump 2 Series/size (see charts)		Drive Shaft will match pump 1 specifications		Direction C-Clockwise A-Counter Clockwise

Hydraulic Gear Pump Model GP-CBN

Technical Data

Model GP-CBN is a HI/LO Hydraulic Gear Pump with 12 displacement combinations with maximum pressures of 900 psi for the low pressure pump and 3000 psi for the high pressure pump. The change from LO to HI pressure is automatic with the LO side pressure pre set from 400 psi to 900 psi. The HI/LO pump is allcast Iron.



Applications for the HI/LO pump are log splitters, presses etc. where rapid movement of the cylinder at low pressure is required prior to automatically switching to the high pressure mode to meet load requirements.

Recommended working conditions: 1. FILTRATION 25 micron or better. 2. OIL VISCOSITY 6 to 200 cSt

3. INLET PRESSURE 12 to 32 psi abs. 4. OIL TEMPERATURE -25 to 80 degrees C (-12 to 175 degrees F).

5. AMBIENT -22 to 55 degrees C (-8 to 130 degrees F).

Flow rate in gpm Displacement (cu.in/rev) X speed (rpm) / 231 Volumetric efficiency % ≥93

Model Prefix GP	Flow GPM at 3600 rpm	Displ. cu.in/rev		Pressure psi		Speed RPM
		LO	HI	LO	HI	
CBN-080	8	0.130	0.385	400/900	3000	3600
*CBN-085	8.5	0.183	0.385	400/900	3000	3600
CBN-090	9	0.220	0.385	400/900	3000	3600
*CBN-100	10	0.130	0.537	400/900	3000	3600
*CBN-105	10.5	0.183	0.537	400/900	3000	3600
CBN-110	11	0.220	0.537	400/900	3000	3600

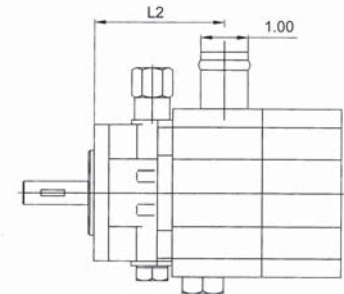
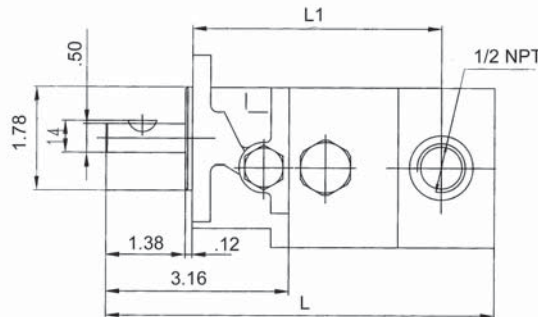
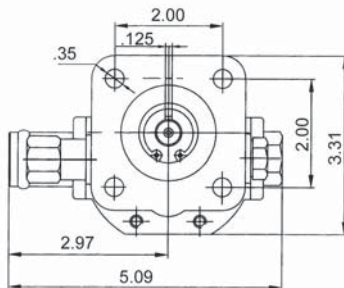
Model Prefix GP	Flow GPM at 3600 rpm	Displ. cu.in/rev		Pressure psi		Speed RPM
		LO	HI	LO	HI	
*CBN-115	11.5	0.256	0.537	400/900	3000	3600
*CBN-120	12	0.130	0.665	400/900	3000	3600
*CBN-125	12.5	0.183	0.665	400/900	3000	3600
CBN-130	13	0.220	0.665	400/900	3000	3600
*CBN-135	13.5	0.256	0.665	400/900	3000	3600
CBN-160	16	0.256	0.793	400/900	3000	3600

Installation Data

Port Sizes

Inlet - 1in. Pipe

Outlet - 1/2 NPT



Model Prefix GP	Dspl. cc	Dimensions		
		L	L1	L2
CBN-080	6.3/2.1	6.07	3.74	2.41
CBN-085	6.3/3.0	6.21	3.90	2.41
CBN-090	6.3/3.6	6.28	3.90	2.14
CBN-100	8.8/2.1	6.41	4.08	2.74

Model Prefix GP	Dspl. cc	Dimensions		
		L	L1	L2
CBN-105	8.8/3.0	6.54	4.08	2.74
CBN-110	8.8/3.6	6.61	4.24	2.74
CBN-115	8.8/4.2	6.70	4.24	2.74
CBN-120	10.9/2.1	6.70	4.37	3.04

Model Prefix GP	Dspl. cc	Dimensions		
		L	L1	L2
CBN-125	10.9/3.0	6.90	4.53	3.04
CBN-130	10.9/3.6	7.00	4.53	3.04
CBN-135	10.9/4.2	7.09	4.53	3.04
CBN-160	13.0/4.2	6.70	4.37	3.04

Ordering Information

GP - CBN - 160 - P - C
 Gear Pump HI/LO series Nominal Flow GPM at 3600 rpm.
 080/*085/090/*100/*105 Drive Shaft P-1/2 in. Dia
 110/*115/*120/*125/130 Straight
 *135/160 *Special order only Minimums may apply
 Rotation Direction
 C- Clockwise
 A-Counter Clockwise (viewed from drive shaft end)

Hydraulic Gear Pump Model GP-CBN

22 & 28 GPM Models

Technical Data

Model GP-CBN is a HI/LO Hydraulic Gear Pump offers maximum pressures of 900 psi for the low pressure pump and 3000 psi for the high pressure pump. The change from LO to HI pressure is automatic with the LO side pressure pre set from 400 psi to 900 psi. The HI/LO section of the pump is all cast Iron.



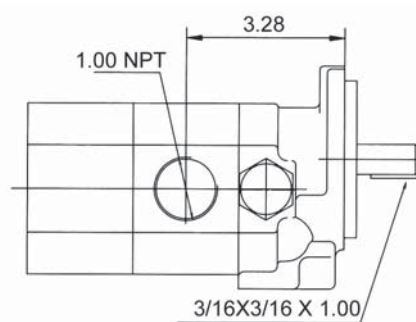
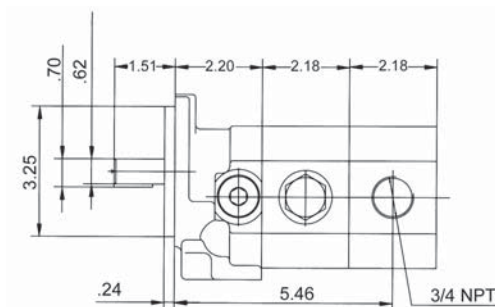
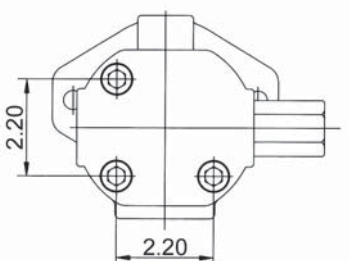
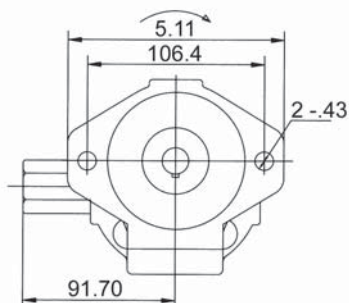
Applications for the HI/LO pump are log splitters, presses etc. where rapid movement of the cylinder at low pressure is required prior to automatically switching to the high pressure mode to meet load requirements.

Recommended working conditions: 1. FILTRATION 25 micron or better. 2. OIL VISCOSITY 6 to 200 cSt
3. INLET PRESSURE 12 to 32 psi abs. 4. OIL TEMPERATURE -25 to 80 degrees C (-12 to 175 degrees F).
5. AMBIENT -22 to 55 degrees C (-8 to 130 degrees F).

Flow rate in gpm Displacement (cu.in/rev) X speed (rpm) / 231 Volumetric efficiency % ≥ 93

Model Prefix GP	Flow GPM at 3600 rpm	Displ. cu.in/rev		Pressure psi		Speed RPM
		LO	HI	LO	HI	
CBN-220	22	.465	0.93	400/900	3000	3600
CBN-280	28	.465	1.395	400/900	3000	3600

Installation Data



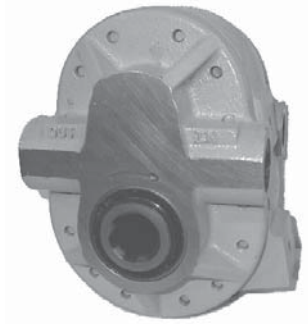
Ordering Information

<u>GP</u>	-	<u>CBN</u>	-	<u>220</u>	-	<u>P</u>	-	<u>C</u>
Gear Pump		HI/LO series		Nominal Flow GPM at 3600 rpm. 220 - 22 GPM 280 - 28 GPM		Drive Shaft P-1/2 in. Dia Straight		Rotation Direction C- Clockwise A-Counter Clockwise

PTO Gear Pump Model GP-PTO

Technical Data

Model GP-PTO is a PTO driven Gear Pump constructed with cast Iron end plates and is available with aluminum center section. It offers 4 displacement sizes from 3.41 to 9.76 cu. in/rev (56 to 160 ml/rev). Standard drive is 1 3/8 diameter 6 tooth female spline.



Model	Displacement		Pressure		Speed RPM		Weight	
	cu.in/rev	cm3/rev	PSI	Mpa	Rated	Max	Lbs.	Kg
GP-PTO-9	9.76	160	2500	17.25	540	595	40	18
GP-PTO-7	7.62	125	2500	17.25	540	595	38	17
GP-PTO-5	5.50	90	2500	17.25	540	595	36	16
GP-PTO-3	3.41	56	2500	17.25	540	595	33	15

Recommended working conditions:

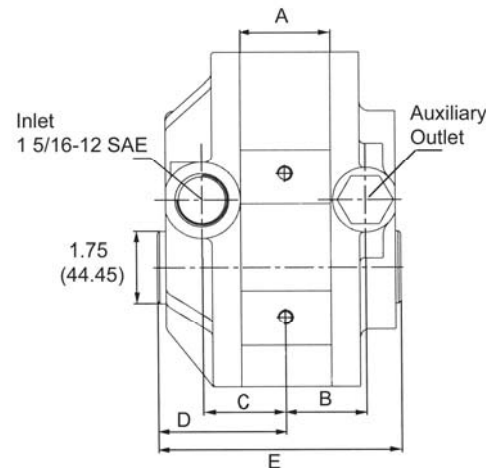
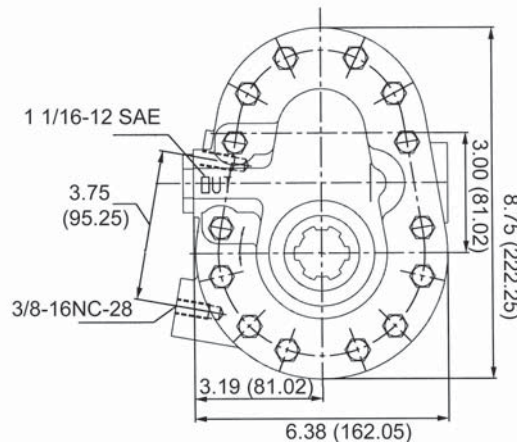
1. FILTRATION 10 micron or better
2. OIL VISCOSITY 6 to 200 cSt
3. INLET PRESSURE 12 to 32 psi abs.
4. OIL TEMPERATURE -25 to 80 degrees C
(-12 to 175 degrees F).
5. AMBIENT -22 to 55 degrees C
(-8 to 130 degrees F).

Flow rate in gpm

Displacement (cu.in/rev) X speed (rpm) / 231

Volumetric efficiency % ≥93

Installation Data



Model	A		B		C		D		E	
	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.
GP-PTO-9	60.3	2.37	53.1	2.09	55.6	2.19	85.1	3.35	161.3	6.35
GP-PTO-7	50.9	2.00	48.5	1.91	50.8	2.00	80.3	3.16	151.6	5.97
GP-PTO-5	41.25	1.62	43.7	1.72	46	1.81	75.4	2.97	142.2	5.60
GP-PTO-3	32.1	1.26	39.1	1.54	41.4	1.63	70.6	2.78	132.8	5.23

Port Sizes
Inlet - SAE-16 (1 5/16-12)
Outlets - SAE-12 (1 1/16-12)

Ordering Information

GP -

Gear Pump

PTO -

PTO
Driven
Series

A -

Center Section
A - Aluminum

9 -

Displacement
cm3/rev
(see chart)
3,5,7,9

6 -

Drive Required
6 - 6 tooth spline
21 - 21 tooth spline*

S

Port Location
S - Side ports

* 21 tooth spline side port option only
available on 3 & 5 size pumps, special order only.
Minimum quantity required

PTO Gear Pump Model GP-PTOR rear port

Technical Data

Model GP-PTOR is a PTO driven Gear Pump constructed with cast Iron end plates and aluminum center section. The rear ported option is available in the 9.76 cu. in/rev (160 ml/rev) displacement and offers Higher flows at reduced engine RPM as compared to other PTO pumps. Standard drive is 1 3/8 inch diameter 21 tooth female spline.



Model	Displacement		Pressure		Speed RPM		Weight	
	cu.in/rev	cm3/rev	PSI	Mpa	Rated	Max	Lbs.	Kg
GP-PTOR-9	9.76	160	2500	17.25	1000	1100	40	18

Flow rate in gpm

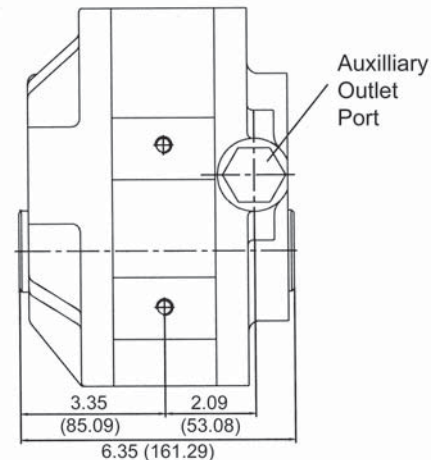
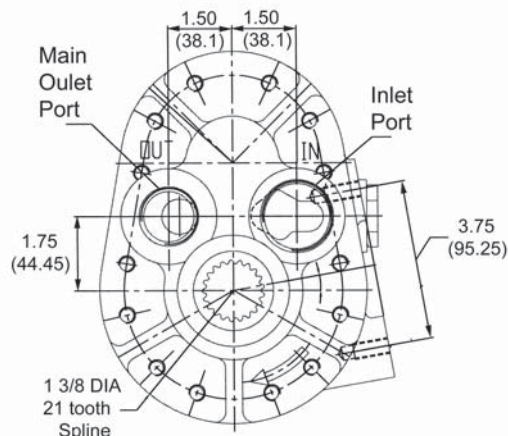
Displacement (cu.in/rev) X speed (rpm) / 231

Volumetric efficiency % ≥93

Recommended working conditions:

1. FILTRATION 10 micron or better
2. OIL VISCOSITY 6 to 200 cSt
3. INLET PRESSURE 12 to 32 psi abs.
4. OIL TEMPERATURE -25 to 80 degrees C (-12 to 175 degrees F).
5. AMBIENT -22 to 55 degrees C (-8 to 130 degrees F).

Installation Data



Model	A		B		C		D		E	
	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.
GP-PTOR-9	60.3	2.37	53.1	2.09	55.6	2.19	85.1	3.35	161.3	6.35

Port Sizes

Inlet - SAE-16 (1 5/16-12)

Outlet - SAE-12 (1 1/16-12)

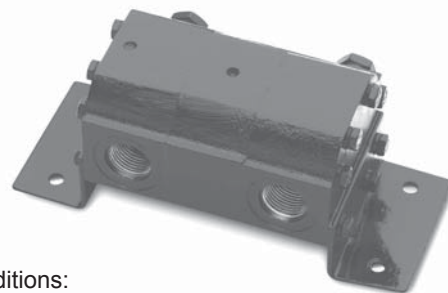
Ordering Information

<u>GP</u>	-	<u>PTOR</u>	-	<u>A</u>	-	<u>9</u>	-	<u>21</u>	-	<u>R</u>
Gear Pump		PTO Driven Series rear ported		Center Section A - Aluminum		Displacement cm3/rev (see chart) 9		Drive Required 21 - 21 tooth spline		Port Location R - Rear ports

Hydraulic Flow Divider Model FD

Technical Data

Model FD is a rotary gear flow divider with 6 displacements from .132 to .538 cu.in/rev (2.17 to 8.82 cm³/rev.) Maximum flow rates of 2.5 to 9.4 GPM (9.5 to 35.3 L/M) are available across the displacement ranges. Standard ports are SAE, sizes are noted in the data chart below.



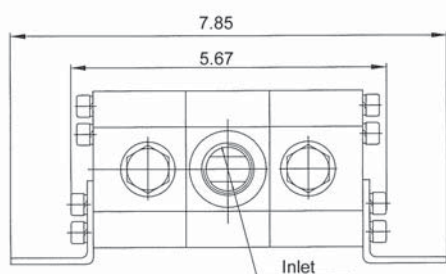
SPECIFICATIONS:

Based on using Petroleum oil at 120° F (49° C)
viscosity 150 SUS at 100° F, and 0 inlet pressure

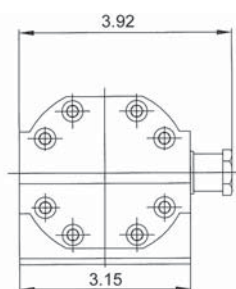
Recommended working conditions:

1. FILTRATION 10 micron or better
2. OIL VISCOSITY 6 to 200 cSt
3. INLET PRESSURE 12 to 32 psi abs.
4. OIL TEMPERATURE -25 to 80 degrees C
(-12 to 175 degrees F).
5. AMBIENT -22 to 55 degrees C
(-8 to 130 degrees F).

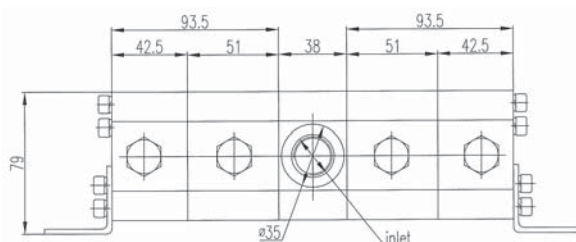
Installation Data



2 section



4 section



Model	Displacement		Min. flow each section		Max. flow each section		Max. Outlet pressure		SAE Ports	
	cu.in/rev	cm ³ /rev	GPM	LPM	GPM	LPM	PSI	Bar	inlet	outlet
FD-2*129*-*	.129	2.13	1.20	4.5	2.5	9.5	3500	240	3/4-16	3/4-16
FD*-2*194*-*	.194	3.18	1.70	6.4	4.5	13.2				9/16-18
FD*-2*258*-*	.258	4.24	2.50	9.5	5.0	18.9			7/8-14	7/8-14
FD*-2*323*-*	.323	5.29	3.00	11.4	6.0	22.7				
FD*-2*388*-*	.388	6.36	3.50	13.2	7.0	26.5				
FD*-2*517*-*	.517	8.42	4.50	17.0	9.0	34.1	3500	240	3/4-16	3/4-16
FD*-4*129*-*	.129	2.13	1.20	4.5	2.0	7.8				9/16-18
FD*-4*194*-*	.194	3.18	1.70	6.4	3.0	11.4			7/8-14	3/4-16
FD*-4*258*-*	.258	4.24	2.50	9.5	4.2	15.6				7/8-14
FD*-4*323*-*	.323	5.29	3.00	11.4	4.7	17.6				7/8-14
FD*-4*388*-*	.388	6.36	3.50	13.2	6.1	22.9				7/8-14
FD*-4*517*-*	.517	8.42	4.50	17.0	8.5	31.7				7/8-14

Ordering Information

FDA	-	2	-	N	-	258	-	S
Flow Divider Aluminum		2 - 2 section 4* - 4 section *special order min qty may apply		R- Relief Valve N- Without Relief Valve		Displacement Each section 129/194/258 323/388/517		Ports S - SAE

NOTES

TERMS AND CONDITIONS

PAYMENT TERMS

Net 30 days. Automatic C.O.D. after 60 days without prior notification, FOB West Union, SC.

WARRANTY

Seller warrants the items sold hereunder shall be free from defects in materials or workmanship for a period of one (1) year from the date of shipment. This warranty comprises the entire warranty pertaining to items provided hereunder. Seller makes no other warranty, guarantee or representation of any kind. If the buyer disassembles, repairs or modifies the unit in any way warranty is no longer valid. All returns must be accompanied by our Return Authorization Form. Dynamic Fluid Components, Inc. is not responsible for material returned without authorization.

RETURNED GOODS

Dynamic Fluid Components, Inc. reserves the right to accept material back at our discretion. All returns must be accompanied by our Return Authorization Form. Dynamic Fluid Components, Inc. is not responsible for material returned without authorization. Material may be returned for credit less a 25% restocking fee with an order of equal value or less a 50% restocking fee without an order of equal value provided materials is in saleable condition and freight is pre-paid. All returns for restock must be accompanied by a copy of the original Invoice, otherwise items are assumed to have been purchased at the maximum discount and credit is issued accordingly.

CREDIT ISSUE POLICY

Credit balances can be offered by material purchase only. Cash payments are not allowed. Dynamic Fluid Components, Inc. reserves the right to assess a restocking fee on all items returned for credit.

PRICING

Subject to change without prior notification.

SPECIAL ORDERS

Special orders are noncancellable.

CONDITIONS

Dynamic Fluid Components, Inc. must have a copy of your sales tax exemption certificate on file. Any discrepancies in either billing or shipping must be reported within 30 days from receipt of order. The carrier must be contracted if package is damaged when received and goods must be kept with original packaging for inspection by the carrier.



Products supplied in this catalog can cause serious injury to equipment and persons if not used properly. Never exceed rated pressures stated in this catalog. Stated pressures are rated in P.S.I. Inspect products on a regular basis while in service. Products in this catalog are used in thousands of applications in varying situations. It is not possible for us to warranty the use of a specific product for a singular application. The user is responsible for selecting and testing the final configuration to insure that all performance, safety and warning requirements are met.

Dynamic is not responsible for errors or omissions in this catalog

**Call 1-800-988-1276
from anywhere in the U.S.**

DYNAMIC
FLUID COMPONENTS, INC.

OTHER PRODUCTS FROM

DYNAMIC

FLUID COMPONENTS, INC.



INTERCHANGEABLE
LOW SPEED HIGH TORQUE
HYDRAULIC MOTORS

PRESSURE GAGES



HIGH PRESSURE BALL VALVES



LOG SPLITTER VALVES



NEEDLE AND FLOW CONTROL VALVES



RESERVOIR ACCESSORIES



Visit our Website www.dynamicfc.com