



The goal of Lenz is to help our Distributors, OEM's and customers succeed by providing the best hydraulic engineered products. Building upon this determination, we've enhanced the Lenz catalogs and our website to feature even more detailed information for ease of specifying and ordering. We at Lenz feel our new catalog and website are easier to navigate, read and understand our products.

We will continue to add new innovative hydraulic products to our product line.

We hope you'll agree we have succeeded in these pursuits.

Lenz

Hydraulics with a Global Reputation



**P.O. Box 1044 Dayton, Ohio 45401-1044
3301 Klepinger Road Dayton, Ohio 45406**

LENZ

F I L T R A T I O N



Spin On Canister Filters
Tank Mounted Filters
Tank Mounted with Breather
Tank Mounted Strainers
Medium Pressure Filter

Diffusers
Suction Strainers
Disc Strainers
Disc Diffusers
S.A.E. Weld Couplings



Filters and Strainers Table of Contents



Suction & Return
Canister Filter



In Tank Filters



Tank Mount
Strainers



Weld Flanges



Return Line Sump
Disc Diffusers

Series	Filters and Strainers	Section A Page
SF	Product Overview Photo	
	Product Overview Index	
CP-250/380	Return Line Canister Filter	1a
CP-500/750/1010	Suction & Return Canister Filter	2a-3a
CP-1280/CP-1580	Suction & Return Canister Filter	4a-5a New Model
CP-1500/1520	Suction & Return Canister Filter	6a-7a
DH	Heavy Duty Line Filters	8a-9a
LIT	In Tank Filters	10a-11a
LITB	In Tank Filter w/ Breather	12a-13a
CP, MC, DP	Filter Indicators	14a
49, N49	Sump Strainers	15a
LTM, LTMA	Tank Mount Strainers	16a New Model
LTMA B, LTF	Tank Mount Strainers	17a
LW-BA	S.A.E. Half Coupling	18a
WFA	Weld Flange	18a New Model
AN-WB	S.A.E.-NPT Threaded Coupling	18a
LTMD, LD FD	Tank Mount Diffusers	19a
L-G	Disc Sump Strainer	20a
ML-G, MD	Magnetic Sump Strainer	21a
R	Return Line Sump Disc Diffusers	22a
	Wire Mesh Chart	23a



Canister Filter

Return Line Applications

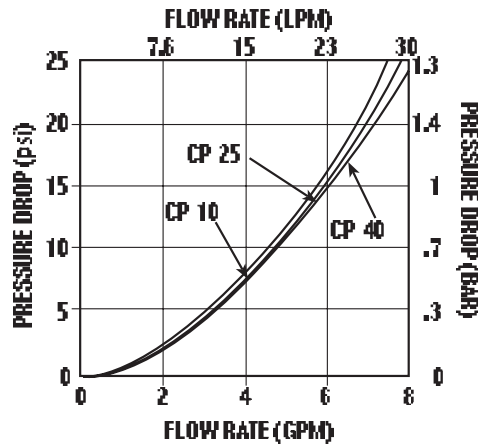
CP-250/380, CPA-380

Specifications

- Working pressure 200 P.S.I. (14 Bar)
- Operating Temperatures -25° F to +212° F (-32° C to +100° C)
- Flows to 7 GPM (26 LPM) Return
- Flows to 2 GPM (7 LPM) Suction
- Die Cast Aluminum casting
- Buna Seals
- For use with petroleum based fluids
- Maximum pressure differential 80 P.S.I. (5 Bar)
- Bypass in filter elements
- .90 lbs shipping weight

Options

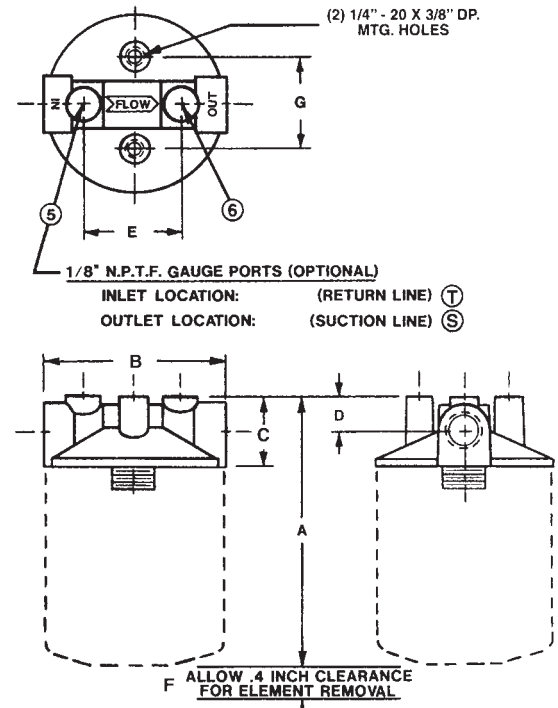
- NPT or S.A.E. ports
- Indicator ports
- 10, 25, 40 micron elements
- 0, 18, 25 P.S.I. Bypass options



Average Pressure drop through clean assembly with 150 SUS oil at 100°F



CP-250
CP-380
CPA-380



Dimensional Details

MODEL	PORT		A	B	C	D	E	F	G
CP-250	1/4" NPT	IN	4.5	3.1	1.13	0.6	1.60	0.4	1.5
		MM	114.3	78.7	28.7	14.2	41.7	10.2	38.1
CP-380	3/8" NPT	IN	4.5	3.1	1.13	0.6	1.60	0.4	1.5
		MM	114.3	78.7	28.7	14.2	39.1	10.2	38.1
CPA-380	9/16"-18 S.A.E.	IN	4.5	3.1	1.13	0.6	1.60	0.4	1.5
		MM	114.3	78.9	28.7	14.2	39.1	10.2	38.1

Ordering Code

CPA - 380 - 1018 - *

SERIES	ELEMENTS	INDICATOR PORTS
CP-NPT	1000 10 MIC. NO BYPASS	OMIT NONE
CPA-S.A.E.	1018 10 MIC. 18 P.S.I. BYPASS	T 1/8 NPT RETURN
	1025 10 MIC. 25 P.S.I. BYPASS	S 1/8 NPT SUCTION
	2510 25 MIC. 10 P.S.I. BYPASS	
	2525 25 MIC. 25 P.S.I. BYPASS	
	4000 40 MIC. NO BYPASS	
	4018 40 MIC. 18 P.S.I. BYPASS	

For Indicators See Page 14a

Filter Elements

MODEL NUMBER	MICRON RATING	BYPASS	AVG BETA	AREA IN ²	AREA CM ²	ELEMENT THREAD
CP-1000	10	NONE	2	126	818	3/4"-16 UNF
CP-1018	10	18	2	113	733	3/4"-16 UNF
CP-1025	10	25	2	113	733	3/4"-16 UNF
CP-2510	25	10	2	129	838	3/4"-16 UNF
CP-2525	25	25	2	129	838	3/4"-16 UNF
CP-4000	40	NONE	2	126	838	3/4"-16 UNF
CP-4018	40	18	2	126	818	3/4"-16 UNF



Canister Filters/Disposable Type

Suction or Return Line Application
Model Series-CP (NPT & S.A.E. Ports)

CP-500, 750, 1000, 1010, 1030

Specifications

- Working pressure 200 P.S.I. (14 Bar)
- Operating Temperatures -22° F to +212° F (-32 C to +100 C)
- Flows to 25 GPM (96 LPM) Return
- Flows to 5 GPM (19 LPM) Suction
- 1/2", 3/4", 1" Ports
- Aluminum Casting — Die Cast
- Buna Seals
- For use with petroleum based, high water (HWCF) water glycols and water/oil emulsions fluids
- Element post threads 1"-12 UNF, 1 1/8"-16 UNF
- 2-3 (lbs.), 1.4 (kgs.) shipping weight

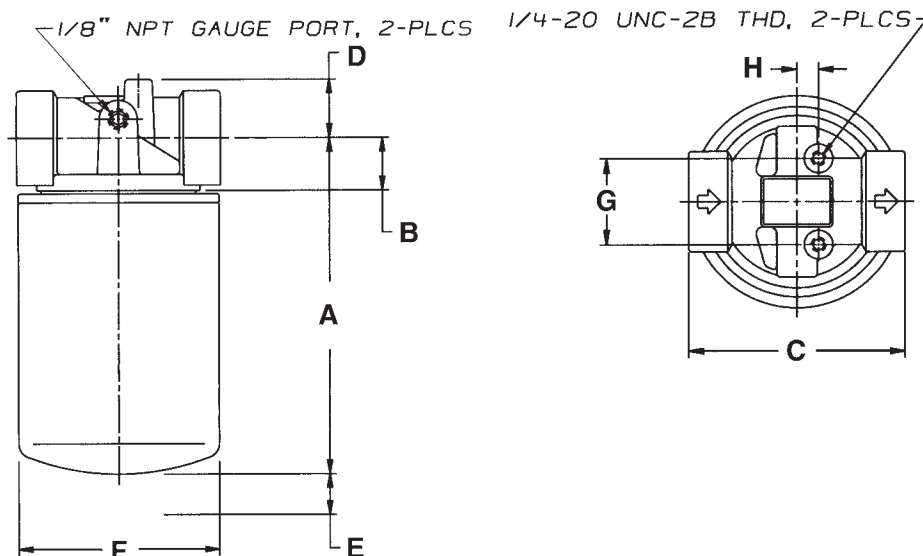
Options

- NPT or S.A.E. Ports (CP-500, 750, 1010)
- 3, 10, 25, micron cellulose, synthetic elements
- Water absorbing elements -10 micron
- 100 wire mesh element
- Visual indicators
- 2.5, 5, 15, 25, blocked bypass options for suction or return



CP-500, CP-750,
CP-1000/CP-1010 Series

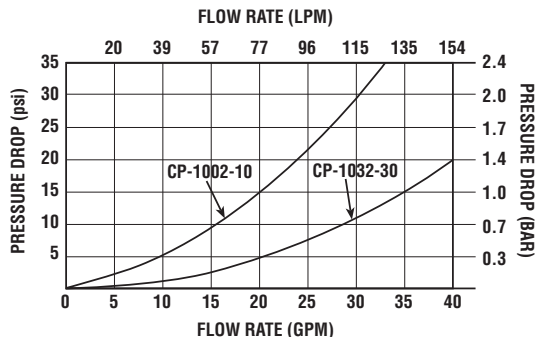
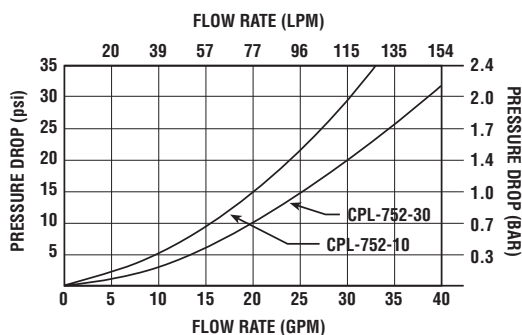
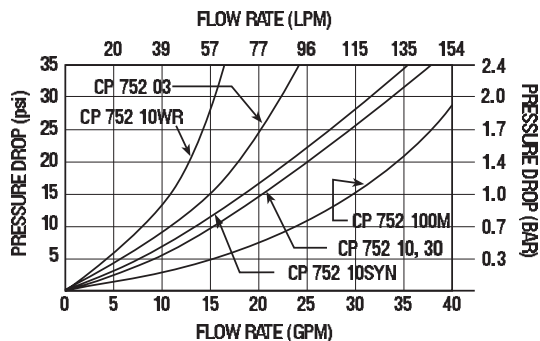
CP-1030 Series



**Head casting has two mounting posts with threads.
On CP-500, CP-750 & CP-1010:
1/4"-20 thread 1 1/2" apart.
On CP-1000 & CP-1030:
3/8"-16 thread 1 7/8" apart.

Dimensional Detail

Model	PORT		A	B	C	D	E	F	G	H	I
CP-500	1/2"	IN	6.2	1	3.8	1.1	0.8	3.7	1.5	0.4	1/4-20 UNC-2B
		MM	157	25	97	28	20	94	38	10	
CPL-500	1/2"	IN	9.6	1	3.8	1.1	0.8	3.7	1.5	0.4	1/4-20 UNC-2B
		MM	244	25	97	28	20	94	38	10	
CP-750	3/4"	IN	6.2	1	3.8	1.1	0.8	3.7	1.5	0.4	1/4-20 UNC-2B
		MM	157	25	97	28	20	94	38	10	
CPL-750	3/4"	IN	9.6	1	3.8	1.1	0.8	3.7	1.5	0.4	1/4-20 UNC-2B
		MM	244	25	97	28	20	94	38	10	
CP-1010	1"	IN	6.2	1	3.8	1.1	0.8	3.7	1.5	0.4	1/4-20 UNC-2B
		MM	157	25	97	28	20	94	38	10	
CPL-1010	1"	IN	9.6	1	3.8	1.1	0.8	3.7	1.5	0.4	1/4-20 UNC-2B
		MM	244	25	97	28	20	94	38	10	
CP-1000	1"	IN	6.4	1	3.8	0.9	0.8	3.8	1.5	.4	3/8-16 UNC-2B
		MM	163	25	97	23	20	97	38	10	
CP-1030	1"	IN	11.4	1	3.8	0.9	0.8	4.3	1.5	.4	3/8-16 UNC-2B
		MM	290	25	97	23	20	109	38	10	



Temperature 100°F Viscosity 150SSU
Average Pressure drop through clean assembly with 150 SUS oil at 100F

Ordering Code

CP — L — 750 — 10 — P — MC-12

SERIES	ELEMENT LENGTH	MODEL	MEDIA	MODEL	LENGTH	BYPASS	IND
CP NPT	OMIT STD.	500	03SYN	3 MICRON 500, 750, 1010	STD. EXT.	P (15 P.S.I.)	MC-12
CPA S.A.E.	L EXT.	750	10	10 MICRON 500, 750, 1010, 1000, 1030	X X	R (25 P.S.I.)	MC-20
		1010	10 SYN	10 MICRON 500, 750, 1010	X	V (5 P.S.I.)	CP-2
		1000	10 WR	10 MICRON 500, 750, 1010	X	H (2.5 P.S.I.)	GLY-MC-20
		1030	30	25 MICRON 500, 750, 1010	X X	B (NO BYPASS)	135080
			100M	140 MICRON 500, 750, 1010	X		VAC-3-20
							OMIT
							DP-75
							T RETURN PORTS ONLY
							S SUCTION PORTS ONLY

Replacement Elements

MODEL NUMBER	MEDIA TYPE	IN ²	CM ²	ELEMENT THREAD	RATING B(X)=2/20/75
CP-752-03	3 CELLULOSE	850	5459	1"-12 UNF	2/5
CP-752-10	10 CELLULOSE	950	6101	1"-12 UNF	10/22/33
CPL-752-10	10 CELLULOSE	1227	7916	1"-12 UNF	10/22/33
CP-752-30	25 CELLULOSE	950	6101	1"-12 UNF	29/46/54
CPL-752-30	25 CELLULOSE	1227	7916	1"-12 UNF	29/46/54
CP-752-10SYN	10 SYNTHETIC	561	3603	1"-12 UNF	4/10/12
CP-752-10WR	10 WATER ABSORPTION	650	4174	1"-12 UNF	8/25/30
CP-752-100M	100 SS WIRE MESH	200	1285	1"-12 UNF	140
CP-1002-10	10 CELLULOSE	453	2922	1 1/8"-16 UNF	9/20/23
CP-1032-10	10 CELLULOSE	1672	10787	1 1/8"-16 UNF	8/33/53

Beta Rating Of 2 = 50 % Efficiency
Beta Rating Of 20 = 95 % Efficiency
Beta Rating Of 75 = 98.7 % Efficiency

Note: 80 P.S.I. Pressure Drop Maximum
Without Bypass Valve In Filter Head

For indicator gauge specifications see page 14a





Canister Filters/Disposable Type

Suction or Return Line Application
Model Series-CP (NPT & S.A.E. Ports)

CP-1280, 1250, 1580

Specifications

- Working pressure 150 P.S.I. (10 Bar)
- Operating Temperatures -22° F to +212° F (-32° C to +100° C)
- Flows to 80 GPM (230 LPM) Return
- Flows to 30 GPM (58 LPM) Suction
- 1 1/4" NPT, 1 5/8"-12 S.A.E. Ports, 1 1/2" NPT
- Element post threads 1 1/2"-16 UNF or 1 1/4" BSP
- Aluminum casting
- Buna Seals
- For use with petroleum based, high water (HWCF) water glycols and water/oil emulsions fluids
- 6 (lbs), 2-2.5 (kgs) shipping weight

Options

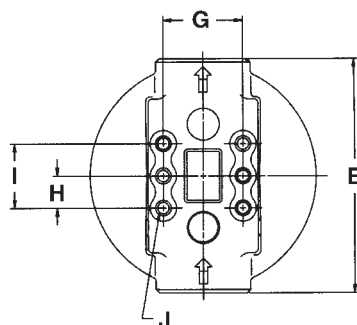
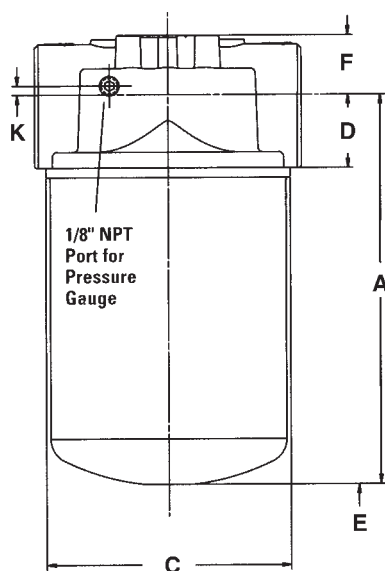
- NPT or S.A.E. Ports
- 10, 25, micron cellulose, synthetic elements
- Water absorbing elements
- 100 wire mesh element
- Visual indicators
- 2.5, 5, 15, 25, blocked bypass options for return or suction



CP-1280 Series
CP-1580 Series



CPL-1280 Series
CPL-1580 Series



**Head casting has six (6) Mounting Posts with 5/16"-18 threads.

Dimensional Detail

MODEL	PORT		A	B	C	D	E	F	G	H	I	J	K
CP-1250	1 1/4"	IN	8.1	5.5	5	1.5	1.2	1.2	1.9	0.8	1.5	5/16"-18 UNC-2B	0.2
		MM	206	140	127	38	30	30	48	20	38		5
CP-1280	1 1/4"	IN	8.1	5.5	5	1.5	1.2	1.2	1.9	0.8	1.5	5/16"-18 UNC-2B	0.2
CP-1580	1 1/2"	MM	206	140	127	38	30	30	48	20	38		5
CPL-1280	1 1/4"	IN	12.2	5.5	5	1.5	1.2	1.2	1.9	0.8	1.5	5/16"-18 UNC-2B	0.2
CPL-1580	1 1/2"	MM	310	140	127	38	30	30	48	20	38		5

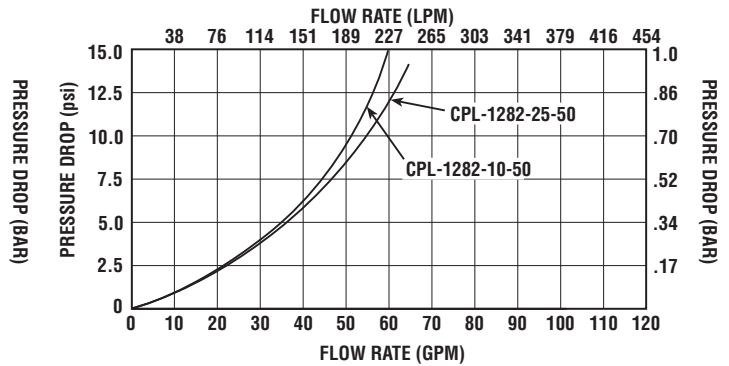
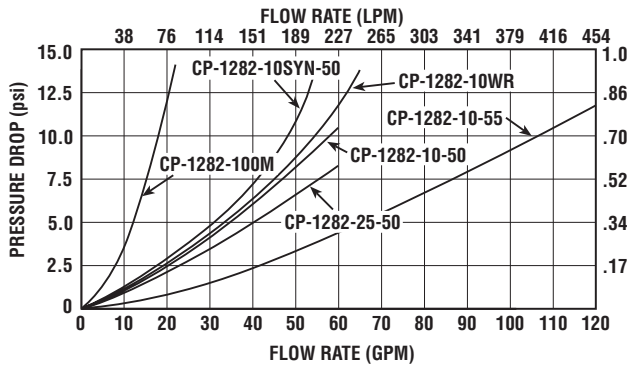
EUROPEAN STANDARD

NORTH AMERICAN

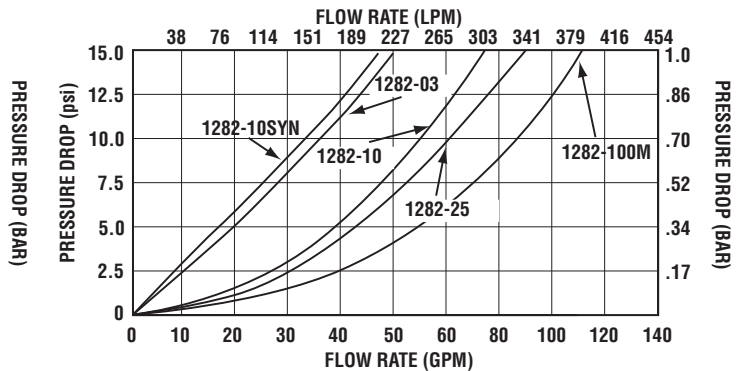
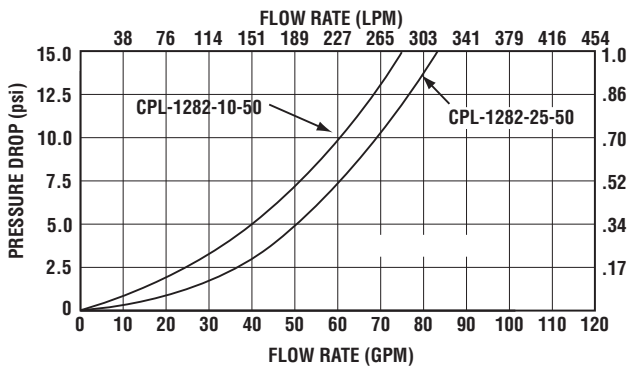
NORTH AMERICAN



CP-1250, CP-1280



CP-1580



Temperature 100°F Viscosity 150SSU
Average Pressure drop through clean assembly with 150 SUS oil at 100F

Ordering Code

CP — L — 1280 — 10 — R — MC-20

SERIES	ELEMENT LENGTH	MODEL	MEDIA	MODEL	THREAD	LENGTH	BYPASS	INDICATOR
CP NPT	OMIT STD.	1280	3	3 MICRON 1280, 1580	50	STD. X EXT. X	P (15 P.S.I.)	OMIT
CPA S.A.E.	L EXT.	1250	10	10 MICRON 1250, 1280, 1580	50 or 55	X	R (25 P.S.I.)	MC-12
		1580	10SYN	10 MICRON 1280, 1580	50		V (5 P.S.I.)	MC-20
			25	25 MICRON 1280, 1580	50	X	H (2.5 P.S.I.)	CP-2
			10WR	10 MICRON 1280, 1580	50		B (NO BYPASS)	GLY-MC-20
			25 SYN	25 MICRON 1280, 1580	50			135080
			100M	140 MICRON 1280, 1580	50			VAC-3-20
								DP-75
								T RETURN PORTS ONLY
								S SUCTION PORTS ONLY

* 1250 Only standard length

Replacement Elements

MODEL NUMBER	MEDIA TYPE	IN	CM	ELEMENT THREAD	RATING B(X)=2/20/75
CP-1282-03-50	3 CELLULOSE	850	5459	1 1/2"-16 UNF	3/10/22
CP-1282-10-50	10 CELLULOSE	950	6101	1 1/2"-16 UNF	10/22/33
CPL-1282-10-50	10 CELLULOSE	1227	7916	1 1/2"-16 UNF	10/22/33
CP-1282-25-50	25 CELLULOSE	950	6101	1 1/2"-16 UNF	29/46/54
CPL-1282-25-50	25 CELLULOSE	1227	7916	1 1/2"-16 UNF	29/46/54
CP-1252-10-55	10 MICRON	946	6076	1 1/4" BSP	9/22/24
CP-1282-10SYN-50	10 SYNTHETIC	561	3603	1 1/2"-16 UNF	4/10/12
CP-1282-10WR-50	10 WATER REMOVAL	650	4174	1 1/2"-16 UNF	8/25/30
CP-1282-100M-50	100 SS WIRE MESH	200	1285	1 1/2"-16 UNF	

Beta Rating Of 2 = 50% Efficiency
Beta Rating Of 20 = 95% Efficiency
Beta Rating Of 75 = 98.7% Efficiency

Note: 80 P.S.I. Pressure Drop Maximum
Without Bypass Valve In Filter Head



For indicator gauge specifications see page 14a



Canister Filters/Disposable Type

Suction or Return Line Application
Model Series-CP (NPT & S.A.E. Ports)

CP-1500, 1520

Specifications

- Working pressure 150 P.S.I. (10 Bar)
- Operating Temperatures -22° F to +212° F (-32° C to +100° C)
- Flows to 120 GPM (480 LPM) Return
- Flows to 35 GPM (140 LPM) Suction
- Aluminum casting
- Buna Seals
- For use with petroleum based, high water glycols and water/oil emulsions fluids
- Element post threads 1 1/2"-16 UNF or 1 1/4" BSP
- 9-11 (lbs), 4-5 (kgs) shipping weight

Options

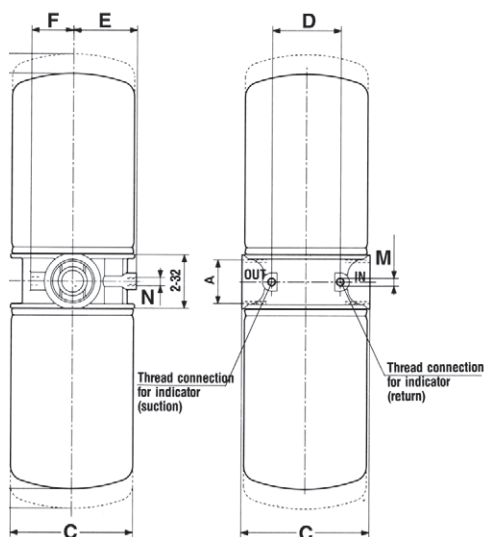
- NPT or S.A.E. Ports
- 10, 25, 100 micron cellulose, synthetic elements
- Water absorbing elements
- Visual indicators
- 2.5, 5, 15, 25, blocked bypass options for suction or return
- 100 wire mesh elements



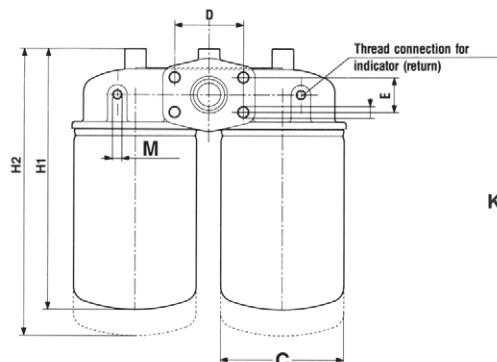
CP-1500 Series



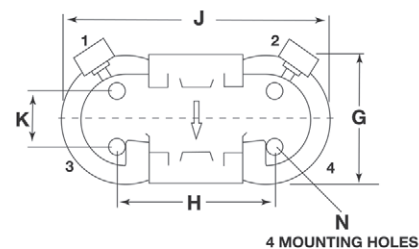
CP-1520 Series



CP-1520 Series

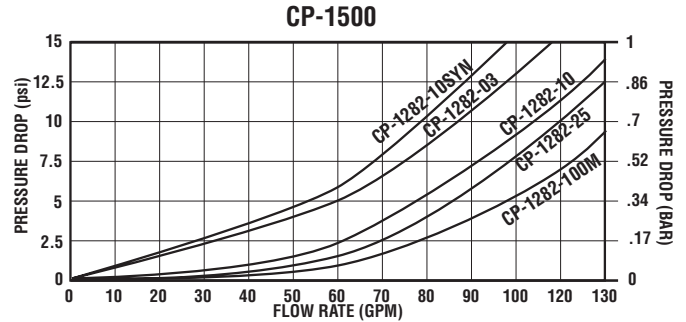
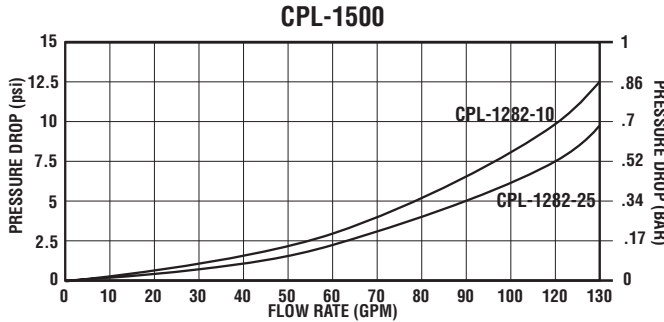
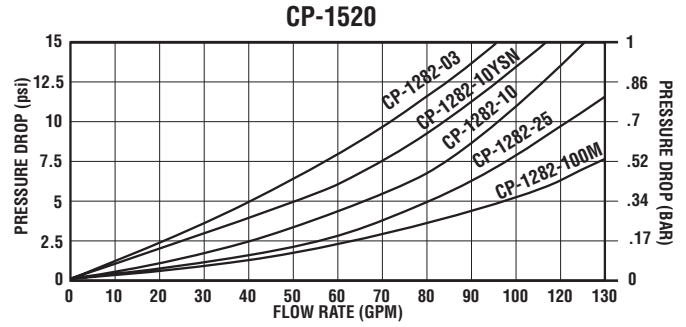
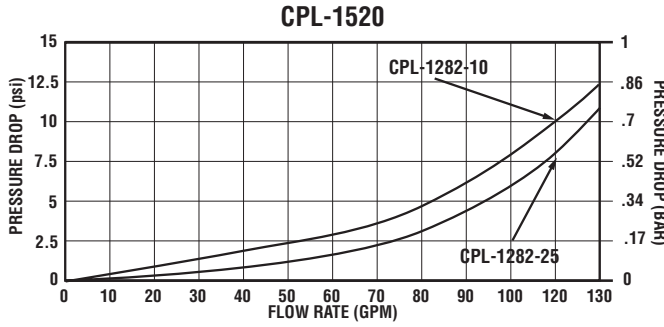


CP-1500 Series



Dimensional Detail

MODEL NO.		H1	H2	C	D	E	F	G	H	J	K	M	N
CP-1500	IN	8.39	—	5.00	2.80	1.42	—	5.75	6.73	11.26	2.36	1/8 NPT	3/8-UNC
	MM	213	—	127	71	36	—	146	171	286	60	—	—
CPL-1500	IN	—	12.40	5.00	2.80	1.42	—	5.75	6.73	11.26	2.36	1/8 NPT	3/8 UNC
	MM	—	315	127	71	36	—	146	171	286	60	—	—
CP-1520	IN	8.50	—	5.00	2.56	2.83	2.24	—	—	—	—	1/8 NPT	3/8 UNC
	MM	216	—	127	65	72	57	—	—	—	—	—	—
CPL-1520	IN	—	10.31	5.00	2.56	2.83	2.24	—	—	—	—	1/8 NPT	3/8 UNC
	MM	—	262	127	65	72	57	—	—	—	—	—	—



Temperature 100°F Viscosity 150SSU
Average Pressure drop through clean assembly with 150 SUS oil at 100F

Ordering Code

CP — 1500 — 10 — R — MC-20

SERIES	ELEMENT LENGTH	MODEL	MEDIA	MODEL	LENGTH STD	EXT	BYPASS	INDICATORS
CP NPT	OMIT STD.	1500	3	3 MICRON 1280,1580	X		P (15 P.S.I.)	OMIT
CPA S.A.E.	L EXT.D.	1520	10	10 MICRON 1250,1280,1580	X	X	R (25 P.S.I.)	MC-12
			10SYN	10 MICRON 1280,1580	X		V (5 P.S.I.)	MC-20
			25	25 MICRON 1280,1580	X	X	H (2.5 P.S.I.)	CP-2
			10WR	10 MICRON 1280,1580	X		B (NO BYPASS)	GLY-MC-20
			25 SYN	25 MICRON 1280,1580	X			135080
								VAC-3-20
								T RETURN PORTS ONLY
								S SUCTION PORTS ONLY

Replacement Elements

MODEL NUMBER	MEDIA TYPE	IN ² AREA	CM ² AREA	ELEMENT THREAD	RATING B(X)=2/20/75
CP-1282-03-50	3 Cellulose	850	5459	1 1/2"-16 UNF	3/10/22
CP-1282-10-50	10 Cellulose	950	6101	1 1/2"-16 UNF	10/22/33
CPI-1282-10-50	10 Cellulose	1227	7916	1 1/2"-16 UNF	10/22/33
CP-1282-25-50	25 Cellulose	950	6101	1 1/2"-16 UNF	29/46/54
CPI-1282-25-50	25 Cellulose	1227	7916	1 1/2"-16 UNF	29/46/54
CP-1252-10-55	10 Cellulose	946	6076	1 1/4" BSP	9/22/24
CP-1282-10SYN-50	10 Synthetic	561	3603	1 1/2"-16 UNF	4/10/12
CP-1282-10WR-50	10 Water Removal	650	4174	1 1/2"-16 UNF	8/25/30
CP-1282-100M-50	100 SS Wire Mesh	200	1285	1 1/2"-16 UNF	

Beta Rating Of 2 = 50 % Efficiency
Beta Rating Of 20 = 95 % Efficiency
Beta Rating Of 75 = 98.7 % Efficiency

Note: 80 P.S.I. Pressure Drop Maximum
Without Bypass Valve In Filter Head

For indicator gauge specifications see page 14a





Medium Pressure In Line Filters Disposable-Filter Cartridge Type

Suction or Return Line Application

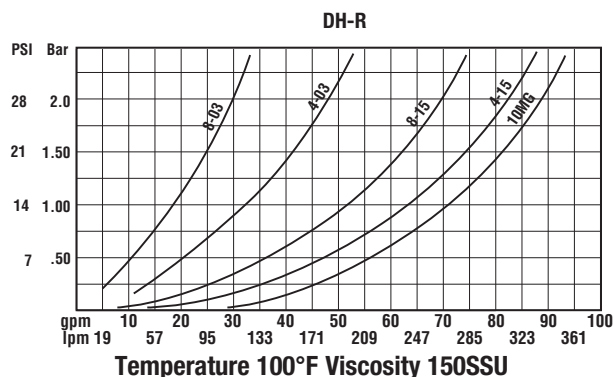
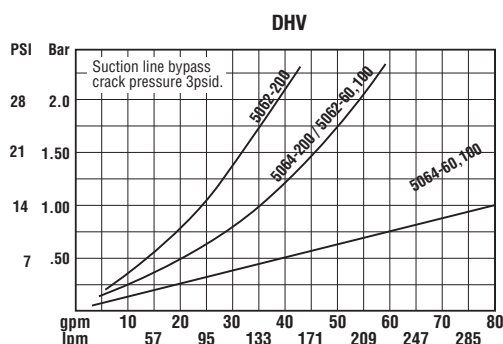
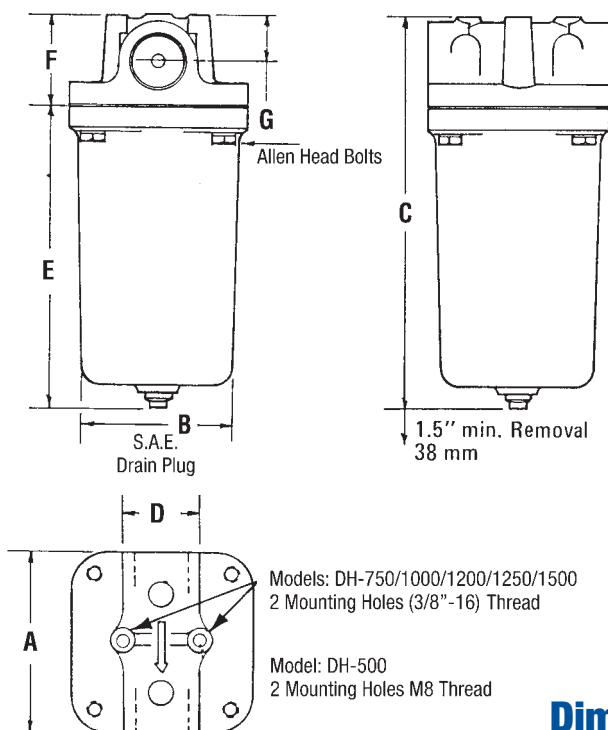
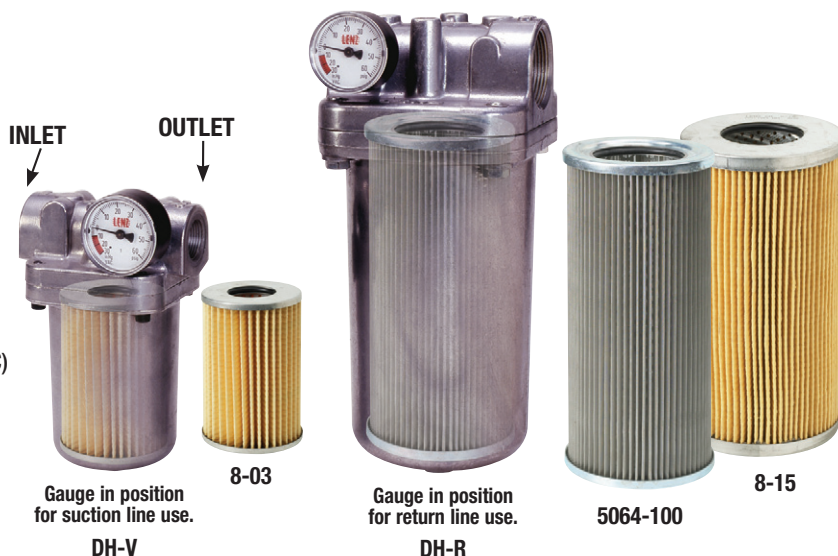
Model DH & DHA (NPT & S.A.E. Ports)

Specifications

- Working pressure 350 P.S.I. (24 Bar)
- Operating Temperatures -22° F to +212° F (-32° C to +100° C)
- Flows to 75 GPM (280 LPM) Return
- 3/4", 1", 1 1/4", 1 1/2" Ports
- Cellulose and wire mesh elements
- Aluminum casting
- Buna Seals
- For use with petroleum based, high water glycols and water/oil emulsions fluids
- Aluminum bowl with S.A.E. drain plug
- 2.5 (lbs) 1.1 (kg), 5.5lbs, (2.5 kgs) shipping weight

Options

- NPT or S.A.E. Ports
- 10, 30, micron cellulose, synthetic elements
- 60, 100, 200 Wire Mesh
- Visual indicators
- 5, 15, 25, blocked bypass options for return or suction
- Optional Viton, EPR seals



Average Pressure drop through clean assembly with 150 SUS oil at 100F

Dimensional Detail

MODEL	NPT	S.A.E.	A	B	C	D	E	F	G	WEIGHT
DH-500	IN	1/2"	3.46	2.60	5.87	1.50	4.13	1.73	0.83	2.3 LBS
	MM		88	66	149	38	105	44	21	0.9 KG
DH-750	IN	3/4"	4.5	3.3	7.4	1.9	5.5	1.9	0.9	2.5 LBS
	MM		114	84	188	48	140	48	23	1.1 KG
DH-1000	IN	1"	4.5	3.3	7.4	1.9	5.5	1.9	0.9	2.5 LBS
	MM		114	84	188	48	140	48	23	1.1 KG
DH-1200	IN	1"	5.1	4.7	11.5	2.4	9.1	2.4	1.2	5.5 LBS
	MM		130	119	292	61	231	61	30	2.5 KG
DH-1250	IN	1 1/4"	5.1	4.7	11.5	2.4	9.1	2.4	1.2	5.5 LBS
	MM		130	119	292	61	231	61	30	2.5 KG
DH-1500	IN	1 1/2"	5.1	4.7	11.5	2.4	9.1	2.4	1.2	5.5 LBS
	MM		130	119	292	61	231	61	30	2.5 KG



Ordering Code

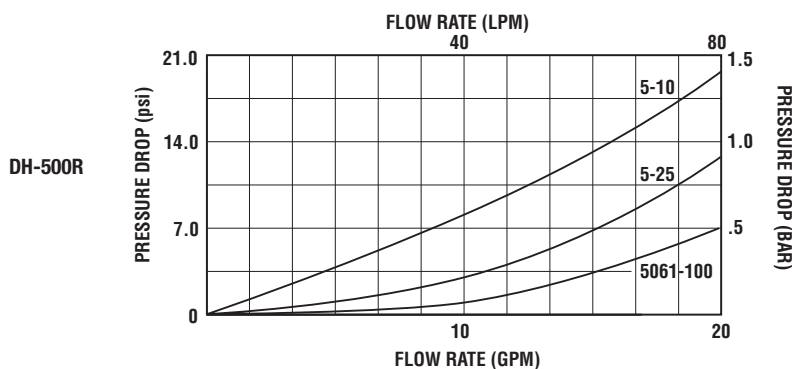
DH - 750 - 800 - PR - CP-2

SERIES	PORT	MEDIA	BYPASS	IND
DH NPT	500 1/2"	800 10 MICRON	RR RETURN 25 P.S.I.	MC-12
DHA S.A.E.	750 3/4"	400 30 MICRON	PR RETURN 15 P.S.I.	MC-20
	1000 1"	*300 10 MICRON GLASS	VR SUCTION 5 P.S.I.	CP-2
	1200 1"	60 60 MESH	OMIT No Bypass	GLY-MC-20
	1250 1 1/4"	100 100 MESH		135080
	1500 1 1/2"	200 200 MESH		VAC-3-20
		700 700 MESH		OMIT
				T RETURN PORTS ONLY
				S SUCTION PORTS ONLY
				V VITON SEALS
				EPR ETHYLENE-PROPYLENE

* Only Available in DH-1200, 1250, 1500

Replacement Elements

MODEL NO.	SERIES	MEDIA	IN ²	CM ²	RATING B(X)=2/20/75
5-10	DH-500	10 MICRON CELLULOSE	143	920	10-25-32
5-25	DH-500	25 MICRON CELLULOSE	143	920	43-46-54
8-03	DH-750, 1000	10 MICRON CELLULOSE	342	2206	10u/25u/32u
4-03	DH-750, 1000	30 MICRON CELLULOSE	342	2206	43u/46u/54u
8-15	DH-1200, 1250, 1500	10 MICRON CELLULOSE	1122	7237	10u/25u/32u
8-10MG	DH-1200, 1250, 1500	10 MICRON SYNTHETIC	660	4528	3u/10u/12u
4-15	DH-1200, 1250, 1500	30 MICRON CELLULOSE	1122	7237	43u/46u/54u
5061-100	DH-500	100 SS MESH	48	315	141
5061-200	DH-500	200 SS MESH	48	315	74
5062-200	DH-750, 1000	200 S.S. WIRE MESH	120	774	74u
5062-100	DH-750, 1000	100 S.S. WIRE MESH	120	774	140u
5062-700	DH-750, 1000	700 S.S. WIRE MESH	120	774	10u
5062-60	DH-750, 1000	60 S.S. WIRE MESH	120	774	262u
5064-200	DH-1200, 1250, 1500	200 S.S. WIRE MESH	325	2096	74u
5064-60	DH-1200, 1250, 1500	60 S.S. WIRE MESH	3 25	2096	262u
5064-100	DH-1200, 1250, 1500	100 S.S. WIRE MESH	325	2096	144u
5064-700	DH-1200, 1250, 1500	700 S.S. WIRE MESH	325	2096	10u



"See our complete line of Filter Indicator Gauges specifications on page 14a"



MC-20

CP-2

135080



In-Tank Filters Disposable Filter Cartridge Type

Return Line Application

Model "LIT" Series LIT-500, 750, 1000, 1250

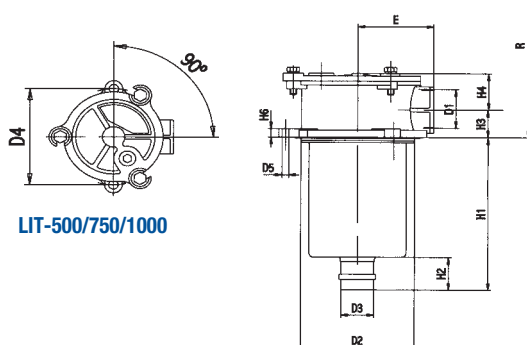
Specifications

- Working pressure 100 P.S.I. (7 Bar)
- Operating Temperatures -22° F to +212° F (-32° C to +100° C)
- Flows to 100 GPM (230 LPM) Return
- 1/2", 3/4", 1", 1 1/4", Ports Aluminum casting
- Buna Seals
- For use with petroleum based, high water - (HWCF) water glycols and water/oil emulsions fluids
- Nylon bowl
- 3-10 (lbs), 1.4-4.5 (kgs) shipping weight
- 25 P.S.I bypass option for return

Options

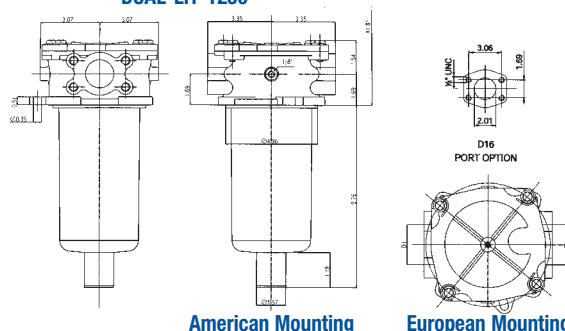
- NPT or S.A.E. Ports
- 10, 25 micron cellulose, synthetic elements
- Water absorbing elements (Series 1250 only)
- Visual indicators
- 140 Micron Wire Mesh elements (Series 1250 only)
- Dual ports available on 1250 Series
- Weld Riser Available for LIT-1250 Series

(see Tech Bulletin: TB.FIL.06.708)



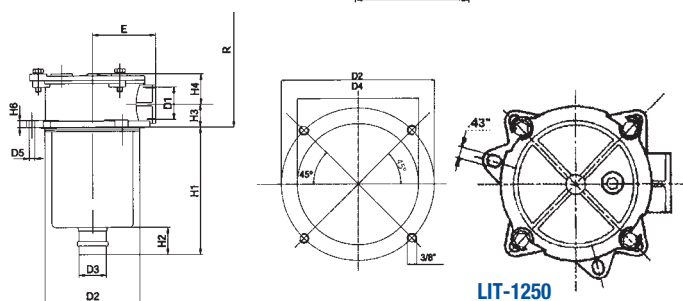
LIT-500/750/1000

DUAL-LIT-1250



American Mounting

European Mounting

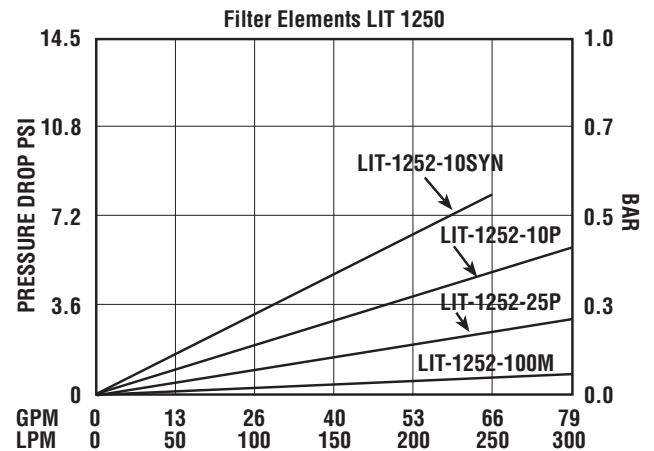
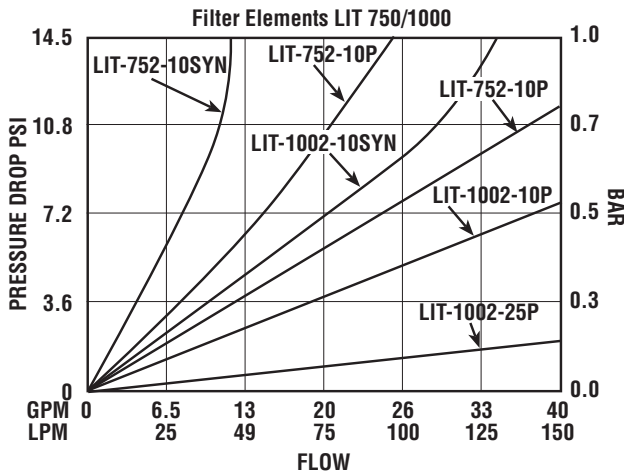
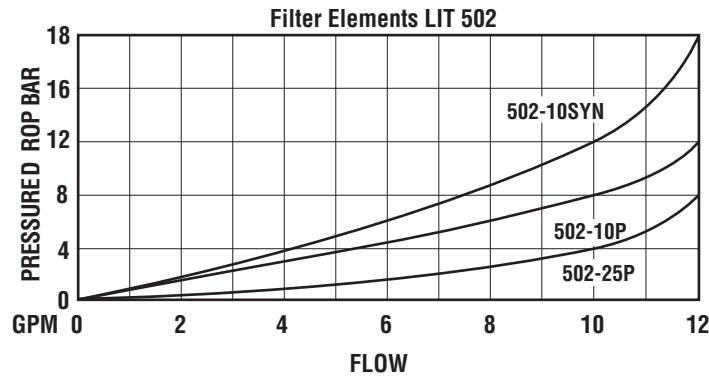


LIT-1250

The mounting flange has 6 holes, allowing choice of mounting configurations:
Four mounting holes on 6.25" bolt circle (American Standard)
Three mounting holes on 6.88" bolt circle (European Standard)
(LIT-1250 / DUAL-LIT-1250)

Dimensional Detail

MODEL NUMBER	PORT D1 NPT, S.A.E.		D2	D3	D4	D5	E	H1	H2	H3	H4	H6	REMOVAL R
LIT-500	1/2" NPT	IN	2.60	0.91	3.19	0.28	2.01	3.19	0.98	0.91	1.30	0.39	4.69
	3/4"-16 S.A.E.	MM	66	23	81	7	51	81	25	23	33	10	119
LIT-750, 1000	3/4", 1 NPT	IN	3.50	1.10	4.53	0.39	2.72	5.87	1.18	1.10	1.89	0.39	7.60
	1 1/16", 15/16-12 S.A.E.	MM	89	28	115	10	69	149	30	28	48	10	193
LITS-750, 1000	3/4", 1 NPT	IN	3.50	1.10	4.53	0.39	2.72	4.02	1.18	1.10	1.89	0.39	5.91
	1 1/16", 15/16-12 S.A.E.	MM	89	28	115	10	69	102	30	28	48	10	150
LITL-750 1000	3/4", 1 NPT	IN	3.50	1.10	4.53	0.39	2.72	8.46	1.18	1.10	1.89	0.39	9.17
	1 1/16", 15/16-12 S.A.E.	MM	89	28	115	10	69	215	30	28	48	10	233
LIT-1250	1 1/4" NPT	IN	5.12	1.61	6.30	0.39	3.82	9.80	1.18	1.69	1.89	0.51	11.81
	1 5/8"-12 S.A.E.	MM	130	41	160	10	97	249	30	43	48	13	300



Temperature 100°F Viscosity 150SSU
Average Pressure drop through clean assembly with 150 SUS oil at 100F

Ordering Code

LIT — 1250 — 10 — P — MC-20

SERIES	
LIT	NPT
LITA	S.A.E.
DUAL-LIT	NPT (1250 only)
LITS	750, 1000
LITL	750, 1000

MODEL	PORT SIZE
500	1/2"
750	3/4"
1000	1"
1250	1 1/4"

MEDIA	MODEL
10	10 MICRON ALL
10SYN	10 MICRON ALL
10WR	10 MICRON 1250
25	25 MICRON ALL
100M	140 MICRON 1250

BYPASS
P (25 P.S.I.)
B (NON BYPASS)

IND
MC-20
CP-2
GLY-MC-20
OMIT
T RETURN PORTS ONLY

NOTE: Indicators Page 14a

Replacement Elements

MODEL NUMBER	MEDIA	IN ²	CM ²	B(x)=2/20/75
LIT-502-10	10 MICRON CELLULOSE	78	500	6u/8u/13u
LIT-502-25P	25 MICRON CELLULOSE	78	500	24u/35u/43u
LIT-502-10SYN	10 MICRON SYNTHETIC	59	380	3u/5.5u/12u
LITS-752-10P	10 MICRON CELLULOSE	138	890	6u/8u/13u
LITS-752-25P	25 MICRON CELLULOSE	138	890	24u/35u/43u
LITS-752-10SYN	10 MICRON SYNTHETIC	127	820	3u/5.5u/12u
LIT-1002-10P	10 MICRON CELLULOSE	214	1380	6u/8u/13u
LIT-1002-25P	25 MICRON CELLULOSE	214	1380	24u/35u/43u
LIT-1002-10SYN	10 MICRON SYNTHETIC	195	1260	3u/5.5u/12u
LITL-752-10P	10 MICRON CELLULOSE	293	1888	6u/8u/13u
LITL-752-25P	25 MICRON CELLULOSE	293	1888	24u/35u/43u
LITL-752-10SYN	10 MICRON SYNTHETIC	267	1721	3u/5.5u/12u
LIT-1250-10P	10 MICRON CELLULOSE	620	3982	6u/8u/13u
LIT-1250-25P	25 MICRON CELLULOSE	620	3982	24u/35u/43u
LIT-1250-10SYN	10 MICRON SYNTHETIC	686	4277	3u/5.5u/12u
LIT-1250-100WR	10 MICRON WATER ABSORPTION	452	2916	10u/18u
LIT-1250-100M	140 MICRON WIRE MESH	310	1991	140u



LITB In-Tank Filter / Breather

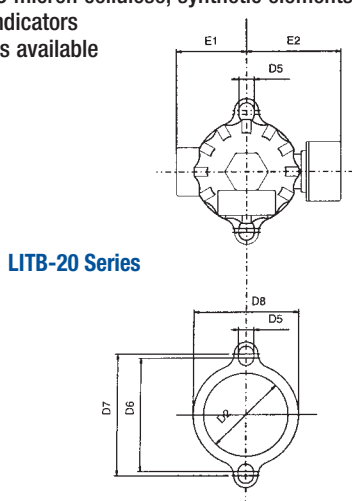
LITB-20, 40

Specifications

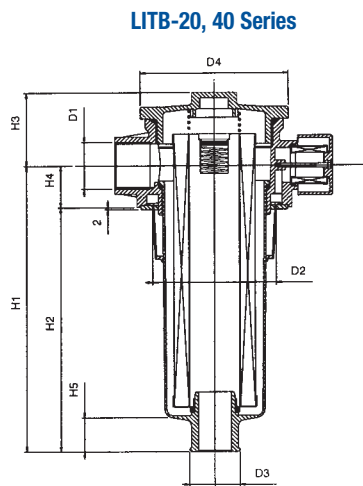
- Working pressure 150 P.S.I. (7 Bar)
- Operating Temperatures -22° F to +212° F (-32° C to +100° C)
- Flows to 40 GPM (150 LPM) Return
- 1/2", 3/4", 1" Ports
- 10 or 40 micron breathers
- Aluminum casting, nylon lid
- Buna Seals
- For use with petroleum based, high water glycols and water/oil emulsions fluids
- Three nylon bowl lengths
- 3-10 (lbs.), 1.4 - 4.5 (kgs.) shipping weight
- 25 bypass for return

Options

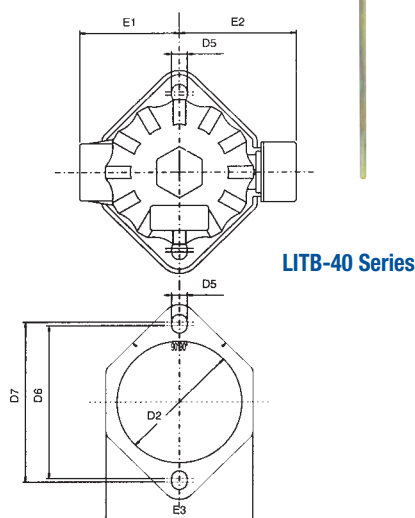
- NPT or S.A.E. Ports
- 6, 10, 25 micron cellulose, synthetic elements
- Visual indicators
- Dipsticks available



LITB-20 Series



LITB-20, 40 Series



LITB-40 Series

Dimensional Details

MODEL NUMBER	D1		D2	D3	D4	D5	D6	D7	D8	H1	H2	H3	H4	H5	E1	E2	E3	WEIGHT LB/KG
LITB 20	1/2", 3/4"	IN	2.3-2.5	1.1	3	0.4	3.2	3.5	3	8	7	1.6	0.9	0.6	2	2.8		0.85
		MM	60-63	28	75	11	82	88	77	202	178	41	24	16	50	70		0.4
LITB 40	3/4", 1"	IN	3.4-3.6	1.4	4.1	0.4	4.3	4.5		5.5	4.3	2.4	1.2	0.9	2.8	3.3	4.1	4.5
		MM	87-91	36	104	11	110	115		140	110	60	30	22	70	83	103	2
LITB 40	3/4", 1"	IN	3.4-3.6	1.4	4.1	0.4	4.3	4.5		8.1	6.9	2.4	1.2	0.9	2.8	3.3	4.1	4.5
		MM	87-91	36	104	11	110	115		205	175	60	30	22	70	83	103	2
LITB 40	3/4", 1"	IN	3.4-3.6	1.4	4.1	0.4	4.3	4.5		12	10.8	2.4	1.2	0.9	2.8	3.3	4.1	4.5
		MM	87-91	36	104	11	110	115		305	275	60	30	22	70	83	103	2

Ordering Code

LITB 20 - 500 - 10 - 40 - D - MC-20-T

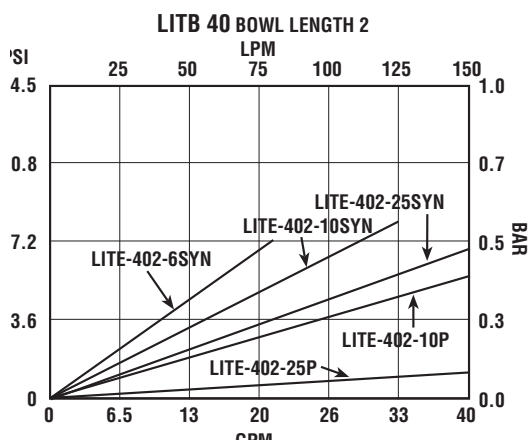
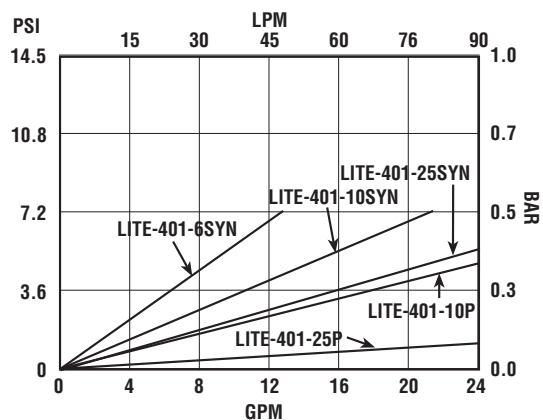
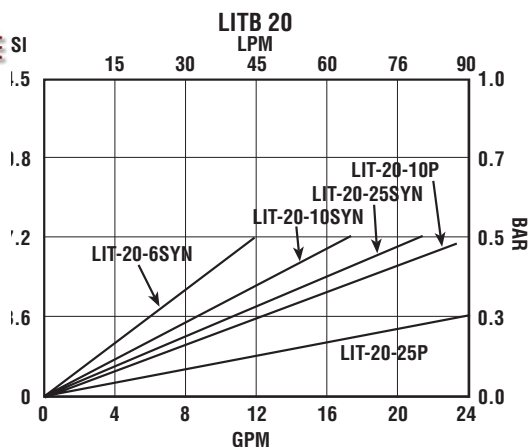
SERIES	PORT SIZE	MEDIA	BREATHER	OPTIONS	INDICATORS
LITB 20	500 1/2"	10 10 MICRON CELLULOSE	10 10 MICRON	D DIPSTICK	MC-20
LITB A20	750 3/4"	10 SYN 10 MICRON SYNTHETIC	40 40 MICRON	OMIT	CP-2
		6SYN 6 MICRON SYNTHETIC			OMIT
		25 25 MICRON CELLULOSE			T RETURN PORTS ONLY
		25SYN 25 MICRON SYNTHETIC			

NOTE: Indicators Page 14a

Replacement Elements

ELEMENT	AREA MEDIA	AREA IN	CM	BETA	RATIO
LITE20-10P	10 MIC. CELLULOSE	135	870	B10	2
LITE20-10SYN	10 MIC. SYNTHETIC	110	710	B10	75
LITE20-6SYN	6 MIC. SYNTHETIC	110	710	B6	75

ELEMENT	AREA MEDIA	AREA IN	CM	BETA	RATIO
LITE20-25P	25 MIC. CELLULOSE	110	710	B25	75
LITE20-25SYN	25 MIC. SYNTHETIC	135	870	B25	2





2" Diameter Indicating Gauges



MC-12

Return Line Indicating Gauge
for 15 P.S.I. Filter Applications
2" Multi color

0-12 P.S.I. Green
12-15 P.S.I. Yellow
15-60 P.S.I. Red (Service Filter)



MC-20

Return Line Indicating Gauge
for 25 P.S.I. Filter Applications
2" Multi color

0-20 P.S.I. Green
21-24 P.S.I. Yellow
25-60 P.S.I. Red (Service Filter)



CHANGE FILTER

CP-2

Compound Indicating Gauge
(Suction or Return Line)

10" to 30" Vacuum is a Red Danger Area.
A Red "Change Filter" Sticker for the
Pressure side is included with each gauge
for application after the pressure factor is
determined.



GLY-MC-20

Glycerin Filled

Return Line Indicating Gauge
for 25 P.S.I. Filter Applications
2" Multi color

0-20 P.S.I. Green
21-24 P.S.I. Yellow
25-60 P.S.I. Red (Service Filter)



135080

Suction Line Indicating Gauge for
5 P.S.I. vacuum filter application
2" Multi color

0-9" HG Green
9-11" HG Yellow
11-30" HG Red (Service Filter)



VAC-3-20

Suction Line Indicating Gauge
for 3 P.S.I. vacuum filter applications
2" Multi color

0-3" HG Green
4-6" HG Yellow
6-30" HG Red (Service Filter)



Differential Indicator DP-75

Simple differential sliding
indicator which changes from
green to red at 7 P.S.I.D.

0 - 7 P.S.I.D. Green Clean
7 - 10 P.S.I.D. Red Service Filter



Sump Strainers

N49 / 49 Series

Nylon Hex Nut
(One Piece)

Steel Hex

N49-SERIES

49-SERIES

Plated Steel Hex or Nylon Hex
Pipe Nut Coupling:
In a full range of NPT sizes, 3/4" thru 3". Welded on.

Plated Steel End Cap or Nylon
Epoxy-bonded for one-piece construction.

Steel Back-Up Cylinder:
Provides rigidity, permits easy cleaning and better flow.

Pleated, Reusable Stainless Wire Cloth:
Keeps its shape and allows better flow. For use with hydraulic fluids, oils, coolants, cutting oils and lubricants. Excellent for mobile equipment. Easily cleaned. Choice of 30, 60, 100 or 200 mesh. See table.

Plated Steel Cap End:
Epoxy-bonded for one-piece construction.

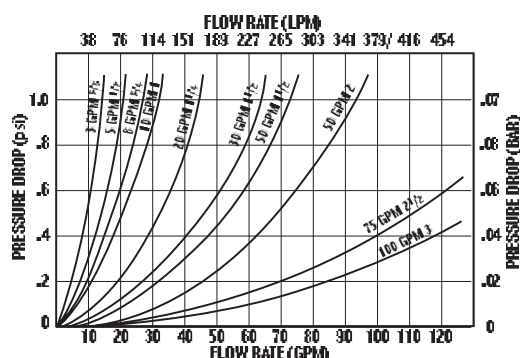
Trouble-Free Positive Protection:
All metal, nickel plated construction. No organic elements to deteriorate. These smooth, one-piece, epoxy-bonded units are carefully and compactly constructed with quality materials throughout. They assure trouble-free, positive protection for the entire system. Excellent for mobile equipment.

Easily Installed and Cleaned:
Easily removed and cleaned with gasoline and similar solvents.

OPTIONAL:
Nylon hex pipe nut coupling, one piece.

Bypass Valves
3 P.S.I./ 6" HG
5 P.S.I./ 10" HG

OPTIONAL
Built-in relief valve to
prevent pump starvation
Add R3 or R5
3 & 5 P.S.I. relief valve is
optional extra.
To specify add to Model No.
Example: 49-50-R3-100



Temperature 100°F Viscosity 150SSU
Average Pressure drop through clean assembly with
150 SUS oil at 100F

Rated Flow Capacity Under 1" HG
(1.5 P.S.I.) Pressure Drop @ 5ft./sec

Ordering Code

49 - 20 - R3 - 100

SERIES
49
N49

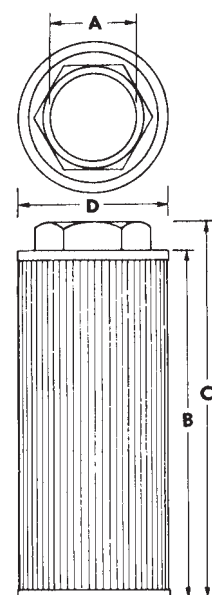
FLOW	SIZE
3	3/8" NPT
4	1/2" NPT
5	3/4" NPT
10	1" NPT
20	1 1/4" NPT
30	1 1/2" NPT
50	1 1/2" NPT
50	2" NPT
75	2 1/2" NPT
100	3" NPT

BYPASS	
OMIT	NO BYPASS
R3	3 PSI BYPASS
R5	5 PSI BYPASS

MESH	
100	100 MESH (STANDARD)
30	30 MESH
60	60 MESH
200	200 MESH

MODEL STEEL	MODEL NYLON	FLOW		A	B	C	D (CM ₂)	AREA
49-3	N49-3	3 GPM 11 LPM	IN MM	3/8"	1.2 30.4	2.5 63.5	1.9 48.3	34 (219.3)
49-4	N49-4	5 GPM 20 LPM	IN MM	1/2"	1.9 48.2	3.1 78.7	2.6 66	62 (399.9)
49-5	N49-5	8 GPM 30 LPM	IN MM	3/4"	2.9 73.7	3.6 91.4	2.6 66	62 (399.9)
49-10	N49-10	10 GPM 40 LPM	IN MM	1"	4.6 116.8	5.4 137.2	2.6 66	110 709.5
49-20	N49-20	20 GPM 80 LPM	IN MM	1 1/4"	6.1 154.9	6.9 175.3	3 76.2	162 (1044.9)
49-30	N49-30	30 GPM 120 LPM	IN MM	1 1/2"	7.2 182.9	8 203.2	3.3 83.8	225 (1451.3)
49-50	N49-50	50 GPM 200 LPM	IN MM	1 1/2"	9.1 231.1	9.9 251.5	3.9 99.1	340 (2193)
49-50-2	N49-50-2	50 GPM 200 LPM	IN MM	2"	9.1 231.1	9.9 251.5	3.9 99.1	340 (2193)
49-75	N49-75	75 GPM 285 LPM	IN MM	2 1/2"	9.1 231.1	10.1 256.5	5.1 129.5	400 (2580)
49-100	N49-100	100 GPM 380 LPM	IN MM	3"	10.4 264.2	11.8 299.7	5.1 129.5	500 (3225)

TO ORDER OTHER THAN 100 MESH ADD 30, 60, 200
TO SPECIFY BYPASS OPTION, ADD R3 & R5





LTM Series

Designed for ease of servicing.
Access to tank interior is not necessary

Specifications:

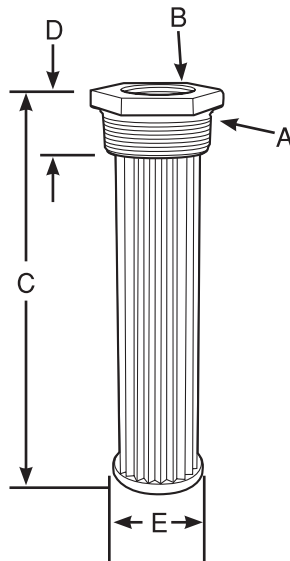
- Cast iron bushings
- Perforated steel support tubes
- 100 mesh stainless steel pleated screen

Options:

- No bypass or 3 & 5 P.S.I. bypass
- Custom screens available on request



Optional Relief Valve Shown



Dimensional Details

MODEL NUMBER	FLOW		NPT A	NPT B	C	D	E	AREA (CM ²)
LTM-3	3 GPM 12 LPM	IN MM	3/4"	3/8"	4.0 101	1.0 25	0.9 29	29.0 (185)
LTM-5	5 GPM 20 LPM	IN MM	1"	1/2"	5.4 137.2	1.1 27.9	1.2 30.5	35 (225.8)
LTM-10	10 GPM 40 LPM	IN MM	1 1/4"	3/4"	8.2 208.3	1.2 30.5	1.4 35.6	64 (412.8)
LTM-15	15 GPM 60 LPM	IN MM	1 1/2"	1"	8.2 208.3	1.2 30.5	1.7 43.2	86 (554.7)
LTM-25	25 GPM 100 LPM	IN MM	2"	1 1/4"	9 228.6	1.4 35.6	2.1 53.3	125 (806.3)
LTM-50	50 GPM 200 LPM	IN MM	3"	2"	9.7 246.4	1.7 43.2	3 76.2	260 (1677.0)
LTM-100	100 GPM 380 LPM	IN MM	4"	3"	11.3 287.0	1.8 45.7	4 101.6	315 (2031.8)
LTM-200	200 GPM 750 LPM	IN MM	6"	4"	12.44 316	2.28 58	5.71 145	450 (2902.5)

Ordering Code

LTM - 15 - R3 - 100

SERIES	FLOW	BYPASS	MESH
LTM	3	OMIT NO BYPASS	100 100 MESH (STANDARD)
	5	R3 3 PSI BYPASS	30 30 MESH
	10	R5 5 PSI BYPASS	60 60 MESH
	15		200 200 MESH
	25		
	50		
	100		
	200		

LTMA Series

Specifications:

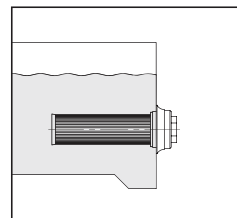
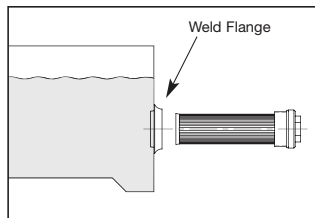
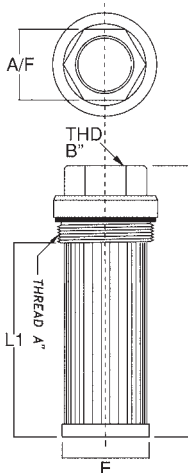
- 1 1/16"-12 S.A.E. thru 3 3/8"-12 S.A.E.
- Die Cast Aluminum Bushing
- 100 Mesh Stainless Steel Mesh
- Flows to 40 G.P.M.
- Side Wall or Tank Top Mounting
- Buna O-Ring

Options:

- No bypass, 3 or 5 P.S.I. bypass
- 30, 60, 200 Mesh Screen Available



Optional Relief Valve Shown



Mounting Details:

Mount through sidewall or through tank top and into standpipe.

TO ORDER OTHER THAN 100 MESH ADD 30, 60, 200
TO SPECIFY BYPASS OPTION, ADD R3 & R5

Dimensional Details

MODEL NUMBER	FLOW	A S.A.E.	B S.A.E.		A/F	E	L	L1
LTMA-3	3 GPM 12 LPM	1 1/16"-12	3/4"-16	IN MM	1.25 31.7	0.79 20	4.00 101.6	2.62 66.6
LTMA-5	5 GPM 20 LPM	1 5/16"-12	3/4"-16	IN MM	1.25 31.7	1.13 29	5.39 137	4.02 102
LTMA-10	10 GPM 40 LPM	1 5/8"-12	1 1/16"-12	IN MM	1.50 38.1	1.42 36	8.19 208	6.81 173
LTMA-15	15 GPM 60 LPM	1 7/8"-12	1 5/16"-12	IN MM	1.65 42	1.67 43	8.19 208	6.81 173
LTMA-18	18 GPM 72 LPM	2 1/2"-12	1 5/16"-12	IN MM	2.13 54	2.24 57	9.06 230	7.64 194
LTMA-25	25 GPM 100 LPM	2 1/2"-12	1 5/8"-12	IN MM	2.13 54	2.13 54	8.19 208	6.81 173
LTMA-30	30 GPM 120 LPM	3 3/8"-12	1 7/8"-12	IN MM	2.56 65	3.07 78	8.86 225	7.28 185
LTMA-40	40 GPM 160 LPM	3 3/8"-12	2 1/2"-12	IN MM	2.99 76	3.07 78	9.25 235	7.72 196

Ordering Code

LTMA - 15 - R3 - 100

SERIES	FLOW	BYPASS	MESH
LTMA	3	OMIT NO BYPASS	100 100 MESH (STANDARD)
	5	R3 3 PSI BYPASS	30 30 MESH
	10	R5 5 PSI BYPASS	60 60 MESH
	15		200 200 MESH
	18		
	25		
	30		
	40		

*See Page 18a for LWBA, WFA, WFN Series, Weld Bushings and Flanges



LTMAB Series

Designed for ease of servicing.
Access to tank interior is not necessary

Specifications:

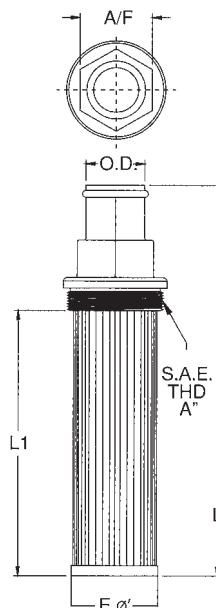
- 17/8"-12 S.A.E. thru 33/8"-12 connections
- 1" to 2" Hose Bead
- Steel Zinc plated fitting
- 100 mesh stainless steel mesh
- Buna O-Ring

Options:

- Optional relief valve available
- Specify bypass -R3 or -R5
- 60, 200 mesh available



Optional Relief Valve Shown



Dimensional Details

MODEL NUMBER	FLOW	A S.A.E.	OD BARB	L	L1	A/F	E
LTMAB-1516	10 GPM 40 LPM	17/8"-12	IN 1 MM 25.4	9.25 235	6.69 170	1.25 31.8	1.65 42
LTMAB-2125	15 GPM 60 LPM	21/2"-12	IN 1.25 MM 31.8	10.04 255	7.48 190	1.25 31.8	2.13 54
LTMAB-4825	20 GPM 80 LPM	33/8"-12	IN 1.25 MM 31.8	10.24 260	7.28 185	1.50 38.1	3.07 78
LTMAB-4850	30 GPM 120 LPM	33/8"-12	IN 1.5 MM 38.1	10.24 260	7.28 185	1.50 38.1	3.07 78
LTMAB-4832	40 GPM 160 LPM	33/8"-12	IN 2 MM 50.8	10.83 275	7.28 185	2.00 50.8	3.07 78

Ordering Code

LTMAB - 1516 - R3 - 100

SERIES	FLOW	BYPASS		MESH	
LTMAB	1516	OMIT	NO BYPASS	100	100 MESH (STANDARD)
	2125	R3	3 PSI BYPASS	30	30 MESH
	4825	R5	5 PSI BYPASS	60	60 MESH
	4850			200	200 MESH
	4832				

LTF Series

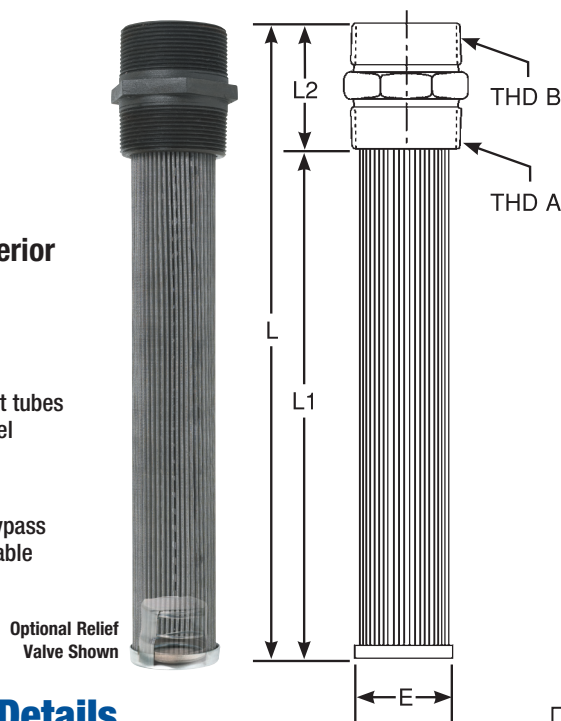
Designed for ease of servicing.
Access to tank interior is not necessary

Specifications

- Flows up to 49 GPM
- Cast iron bushing
- Perforated steel support tubes
- 100 mesh stainless steel pleated elements

Options

- No bypass or 5 P.S.I. bypass
- 30, 60, 200 mesh available upon to request



Optional Relief Valve Shown

Dimensional Details

MODEL NUMBER	FLOW	A NPT	B NPT		L	L1	L2	E
LTF-32-32	50 GPM 200 LPM	2"	2"	IN MM	13.50 343	10.75 273	2.72 69	2.13 54

Ordering Code

LTF - 32-32 - R3 - 100

SERIES	FLOW	BYPASS		MESH	
LTF	32	OMIT	NO BYPASS	100	100 MESH (STANDARD)
		R3	3 PSI BYPASS	30	30 MESH
		R5	5 PSI BYPASS	60	60 MESH
				200	200 MESH

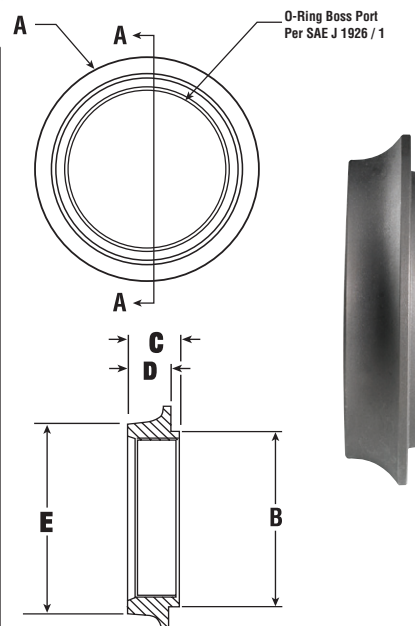


WF, WFA Weld Flanges

- Forged Steel Construction
- Phosphate finish makes them suitable for welding
- Flanged pilot design makes for easy installation
- -4 to -48 S.A.E. O-ring port ensures leak proof protection
- 1/4" -3" NPT threads available



S.A.E. MODEL	S.A.E. PORT	NPT MODEL	NPT PORT		A	B	C	D	E
WFA-4	7/16"-20	WF-4N	1/4"	IN	1.5	0.93	0.56	0.31	1
				MM	38.10	23.62	14.22	7.87	25.40
WFA-5	1/2"-20			IN	1.5	0.93	0.56	0.31	1
				MM	38.10	23.62	14.22	7.87	25.40
WFA-6	9/16"-18	WF-6N	3/8"	IN	1.5	0.93	0.56	0.31	1
				MM	38.10	23.62	14.22	7.87	25.40
WFA-8	3/4"-16	WF-8N	1/2"	IN	1.5	0.93	0.56	0.31	1
				MM	38.10	23.62	14.22	7.87	25.40
WFA-10	7/8"-14			IN	2.13	1.38	0.69	0.44	1.44
				MM	54.10	35.05	17.53	11.18	36.58
WFA-12	1 1/16"-12	WF-12N	3/4"	IN	2.13	1.38	0.69	0.44	1.44
				MM	54.10	35.05	17.53	11.18	36.58
WFA-14	1 3/16"-12			IN	2.38	1.66	0.75	0.5	1.75
				MM	60.45	42.16	19.05	12.70	44.45
WFA-16	1 5/16"-12	WF-16N	1"	IN	2.38	1.66	0.75	0.5	1.75
				MM	60.45	42.16	19.05	12.70	44.45
WFA-20	1 5/8"-12	WF-20N	1 1/4"	IN	2.69	2	0.75	0.5	2.13
				MM	68.33	50.80	19.05	12.70	54.10
WFA-24	1 7/8"-12	WF-24N	1 1/2"	IN	3	2.25	0.75	0.5	2.38
				MM	76.20	57.15	19.05	12.70	60.45
WFA-32	2 1/2"-12	WF-32N	2"	IN	3.5	2.63	0.86	0.6	2.88
				MM	88.90	66.80	21.84	15.24	73.15
WFA-48	3 3/8"-12	WF-48N	3"	IN	4.63	3.66	1	0.81	3.94
				MM	117.60	92.96	25.40	20.57	100.08

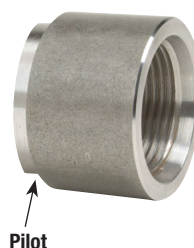


LW-BA Weld Adapters

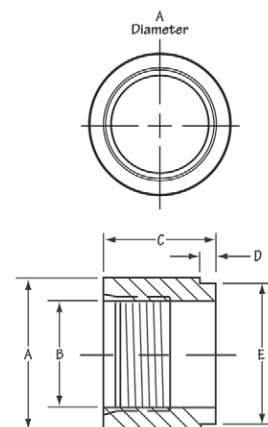
FEMALE S.A.E. "O-RING" WELD Adapter

LENZ "LW-BA" Weld Adapters are a female S.A.E. O-ring connector for Lenz S.A.E. male straight thread fittings or any other Lenz hydraulic component with a male S.A.E. straight thread, making for a leak-free installation.

MODEL NUMBER	STAINLESS STEEL	FEMALE S.A.E.	A	B	C	D	E
LWBA-6	LWBA-6-SS	9/16"-18	1.00	0.50	1.00	0.25	0.88
LWBA-8	LWBA-8-SS	3/4"-16	1.25	0.69	1.06	0.25	1.13
LWBA-10	LWBA-10-SS	7/8"-14	1.38	0.81	1.06	0.25	1.25
LWBA-12	LWBA-12-SS	1 1/16"-12	1.50	0.98	1.28	0.25	1.38
LWBA-14	LWBA-14-SS	1 3/16"-12	1.63	1.10	1.25	0.25	1.50
LWBA-16	LWBA-16-SS	1 5/16"-12	1.75	1.23	1.28	0.25	1.63
LWBA-20	LWBA-20-SS	1 5/8"-12	2.25	1.54	1.28	0.25	2.13
LWBA-24	LWBA-24-SS	1 7/8"-12	2.75	1.79	1.28	0.25	2.50
LWBA-32	LWBA-32-SS	2 1/2"-12	3.25	2.41	1.50	0.25	3.00



Pilot

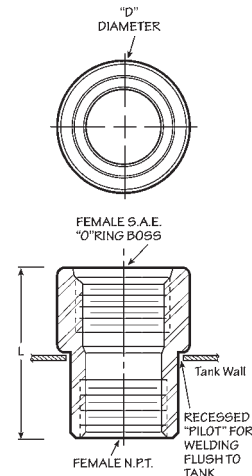


AN-WB Weld Adapters

FEMALE S.A.E. "O-RING" TO FEMALE NPT

LENZ "AN-WB" Weld Adapters are a female S.A.E. "O-Ring" connection on top or side of tank, and the female NPT connection on the inside of the tank, to save time and labor when installing components or accessories for a leak-free installation.

MODEL NUMBER	FEMALE S.A.E.	FEMALE PIPE	L +.03	X PILOT DIA.	D DIA.
AN-WB-6-6	9/16"-18	3/8"	1.41	.808	1.00
AN-WB-8-8	3/4"-16	1/2"	1.72	.995	1.125
AN-WB-12-12	1 1/16"-12	3/4"	1.98	1.275	1.50
AN-WB-16-16	1 5/16"-12	1"	2.17	1.495	1.75
AN-WB-20-20	1 5/8"-12	1 1/4"	2.25	1.870	2.125
AN-WB-24-24	1 7/8"-12	1 1/2"	2.26	2.125	2.375
AN-WB-32-32	2 1/2"-12	2"	2.41	3.00	3.25





LTMD Series Diffusers

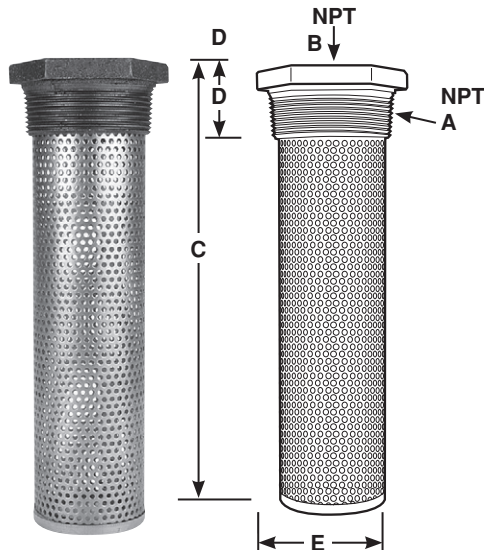
Designed for ease of servicing.
Access to tank interior is not necessary

Specifications :

- Steel bushings
- Perforated steel support
- Temperatures to + 250° F (+121° C)
- Rated flow at 17 F.P.S.

Options:

- S.A.E. available - consult factory



Dimensional Details

S.A.E.	NPT	FLOW GPM / LPM		A	B	C	D	E
	LTMD-3	10 38	IN MM	3/4"	3/8"	4.0 102	1.0 25	0.8 20
	LTMD-5	20 76	IN MM	1"	1/2"	5.4 137	1.1 28.0	1.2 30.0
	LTMD-10	35 132	IN MM	1 1/4"	3/4"	7.5 190	1.2 31	1.4 36
	LTMD-15	55 208	IN MM	1 1/2"	1"	8.3 210	1.3 33	1.7 42
LTMD-25		95 360	IN MM	2 1/2"-12	1 5/8"-12	9.1 230	1.4 36	2.1 54
	LTMD-25	95 360	IN MM	2"	1 1/4"	10 254	1.7 33	3.0 54
	LTMD-50	210 795	IN MM	3"	2"	10 260	1.7 43	3.08 76
	LTMD100	465 1760	IN MM	4"	3"	11 287	1.8 46	3.8 96
	LTMD-200	550 2082	IN MM	6"	4"	12.4 316	2.3 58	5.7 145

LDFD Series Diffusers

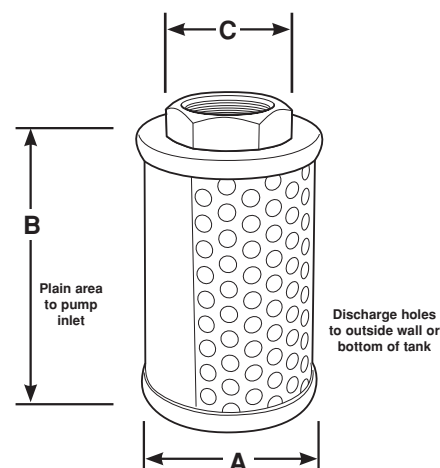
Designed for ease of servicing.

Specifications:

- Aluminum Nut / Zinc plated steel body
- Operating temperature range -13° F to 212° F (-25° C to 100° C)
- Up to 3" NPT port threads
- Flows to 450 GPM (1741 LPM)
- Maximum working pressure 300 P.S.I. (20 Bar)
- Pressure drop at rated flows .5 P.S.I. (.035 Bar)
- Rated flow at 17 F.P.S.

Dimensional Details

MODEL NUMBER	NPT PORT	FLOW		A	B	HEX C
LDFD-10	1/2"	10 38	IN MM	1.65 42	4.09 104	1.18 30
LDFD-30	3/4"	33 125	IN MM	2.36 60	5.00 127	1.38 35
LDFD-60	1"	53 201	IN MM	2.36 60	6.26 159	1.81 46
LDFD-90	1 1/4"	93 352	IN MM	3.23 82	6.26 159	2.01 51
LDFD-120	1 1/2"	126 477	IN MM	3.23 82	8.27 210	2.36 60
LDFD-200	2"	209 791	IN MM	3.23 82	12.24 311	2.76 70
LDFD-250	2 1/2"	300 1136	IN MM	5.71 145	8.31 211	3.54 90
LDFD-300	3"	460 1741	IN MM	5.71 145	10.71 272	3.94 100



Operation

The LDFD series diffuser consists of two concentric steel tubes each with rows of discharge holes positioned over 120 degrees of their circumference arranged on opposite sides. The inner tube has fewer holes than the outer; to allow for oil velocity to be reduced in two stages as it passes from the inner tube to the outer tube and eventually into the reservoir. The LDFD series diffusers should be installed with the discharge area on the outside tube facing the tank wall or bottom.

Benefits

Designed to effectively reduce fluid aeration, foaming, turbulence, and noise caused by return lines. Pump life is also extended by reducing cavitation to the pump inlet.



Disc Sump Strainer Standard Types

Stacking Disc Sump Strainers

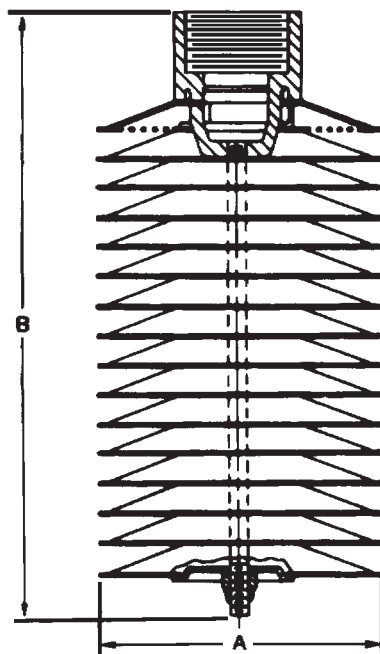
Model L-G

Lenz Model L-G Strainers are all-metal disc type, for all petroleum base and fire resistant hydraulic oils and other liquids such as water and fuels. They are designed to work efficiently installed in either a vertical or horizontal position.

Lenz Disc Type Strainers can be cleaned more completely than any other design because when the assembly is dismantled, every square inch of flat screen area can be scrubbed clean and inspected.

Because of the Lenz "Stacking" Disc design, it is possible to provide assemblies with filtering area ranging from 8 to more than 700 square inches by utilizing the four disc sizes shown in the table below (Dimension A)

These units may be ordered with 100, 60, or 30 mesh wire screen. (See Pg. 14)
100 mesh stainless Cloth supplied unless otherwise specified.



Standard Assemblies Available For Sump Application

100 Mesh Stainless Cloth Is Supplied Unless Otherwise Specified

MODEL NUMBER	GPM	PIPE SIZE NPT	DIMENSIONS		DISCS	FILTER AREA (SQ. IN.)
			A	B		
L75G5	5	3/4"	3 3/4"	4"	8	64"
L75G8	8	3/4"	3 3/4"	5 1/2"	12	96"
L100G10	10	1"	3 3/4"	7 3/8"	16	128"
L125G20	20	1 1/4"	4 1/4"	9 1/4"	21	214"
L150G30	30	1 1/2"	5"	9 3/8"	21	307"
L150G50	50	1 1/2"	5"	10 7/8"	25	365"
L200G60	60	2"	6"	7 7/8"	18	380"
L200G75	75	2"	6"	9 1/4"	22	464"
L250G85	85	2 1/2"	6"	10 1/8"	24	507"
L250G100	100	2 1/2"	6"	11 5/8"	28	591"

NOTE: * area based on following: 8.0" sq. in. per 3.75" disc / 10.2" sq. in. per 4.25" disc
14.6" sq. in. per 5" disc / 21.1" sq. in. per 6" disc.

Low Disc Strainers

Model D

MODEL NUMBER	PIPE SIZE NPT	HEIGHT	DISCS	AREA SQ. IN.
37-D-1	3/8"	1"	1	8"
37-D-2	3/8"	1 3/8"	2	16"
37-D-3	3/8"	1 3/4"	3	24"
50-D-1	1/2"	1 1/8"	1	8"
50-D-2	1/2"	1 1/2"	2	16"
50-D-3	1/2"	1 7/8"	3	24"
50-D-5	1/2"	2 5/8"	5	40"
75-D-3	3/4"	2 1/4"	3	24"
75-D-4	3/4"	2 5/8"	4	32"
75-D-5	3/4"	3"	5	40"
100-D-6	1"	3 5/8"	6	48"
100-D-7	1"	4"	7	56"

Low in price, these compact strainers are designed for low oil levels and small tanks found in scissor lifts, lift trucks, and other applications where efficiency counts most. They are perfect for shallow tanks, work well in fluid levels as low as 3/4".

- Available on special order: 6" dia. discs which have 21.1 sq. in. screen area per disc. 3/4" or 1" NPT pipe size.



NOTE: * 8.0 sq. in. per 3 3/4"

See Pg. 22a for view of screen



Disc Sump Strainers/Magnetic Types

Magnetic Disc Sump Strainers

Model ML-G

Lenz Model ML-G Strainers add magnetic separation to the efficient straining action of the stacking disc design. Powerful Alnico magnets attract iron particles to the disc covers and away from the stainless screen. Oil passing through the center of the magnets gets a secondary cleaning action. The magnets are an integral part of the assembly, not just an add-on feature. Meets J.I.C. specifications calling for magnetism in hydraulic systems. Die cast aluminum pipe adapters effectively isolate Lenz Magnetic Disc Sump Strainers from steel intake piping. When the unit is disassembled, the iron particles simply drop off the disc covers. These units may be ordered with 100, 60, or 30 mesh wire screen.

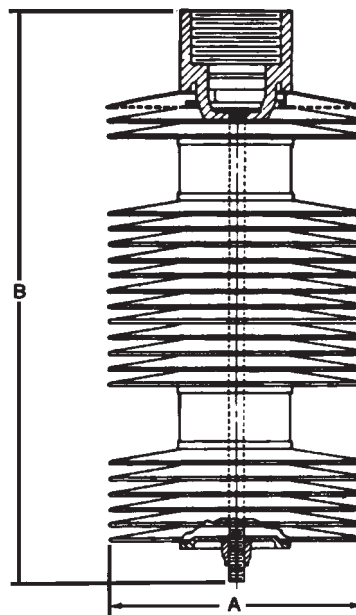
(See Pg.14 for mesh sizes)



Dimensional Details

MODEL NUMBER	GPM	PIPE SIZE NPT	DIMENSIONS		MAGNETS NO. & DIA.	DISC	FILTER AREA* (SQ. IN.)
			A	B			
ML75G5	5	3/4"	3 3/4"	5"	1-2"	8	64"
ML75G8	8	3/4"	3 3/4"	6 1/2"	1-2"	12	96"
ML100G10	10	1"	3 3/4"	9 3/8"	2-2"	16	128"
ML125G20	20	1 1/4"	4 1/4"	11 1/4"	2-3"	21	214"
ML150G30	30	1 1/2"	5"	11 3/8"	2-3"	21	307"
ML150G50	50	1 1/2"	5"	13 7/8"	3-3"	25	365"
ML200G60	60	2"	6"	10 1/8"	2-3"	18	380"
ML200G75	75	2"	6"	11 5/8"	2-3"	22	464"
ML250G85	85	2 1/2"	6"	12 3/8"	2-3"	24	507"
ML250G100	100	2 1/2"	6"	14 7/8"	3-3"	28	591"

NOTE: *area based on following: 8.0 sq. in. per 3/4" disc ■ 10.2 sq. in. per 4 1/4" disc
 ■ 14.6 sq. in. per 5" disc ■ 21.1 sq. in. per 6" disc



Magnetic Low Disc Strainer

Model MD

Lenz Model M D Strainers combine magnetic separation and low profile disc construction. A cylindrical magnet mounted between discs makes a concentrated magnetic field through which all oil passes.

- Available on special order: 6" dia. discs which have 21.1 sq. in. screen area per disc. 3/4" or 1" NPT pipe size.

MODEL NUMBER	PIPE SIZE NPT	HEIGHT	DISCS	AREA* (Sq. In.)
37MD1	3/8"	2"	1	8"
37MD2	3/8"	2 3/8"	2	16"
37MD3	3/8"	2 3/4"	3	24"
50MD1	1/2"	2 1/8"	1	8"
50MD2	1/2"	2 1/2"	2	16"
50MD3	1/2"	2 7/8"	3	24"
50MD5	1/2"	3 5/8"	5	40"
75MD3	3/4"	3 1/4"	3	24"
75MD4	3/4"	3 5/8"	4	32"
75MD5	3/4"	4"	5	40"
100MD6	1"	4 5/8"	6	48"
100MD7	1"	5"	7	56"



See Pg. 22a for view of screen



Return Line Sump Diffusers Disc Types

Prevents Oil From Foaming

Model R

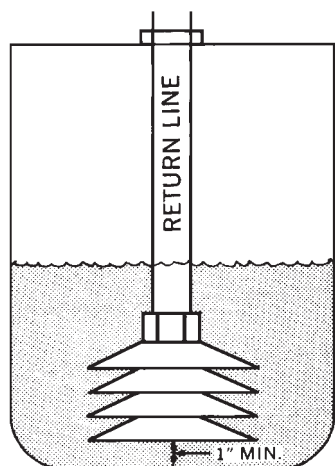
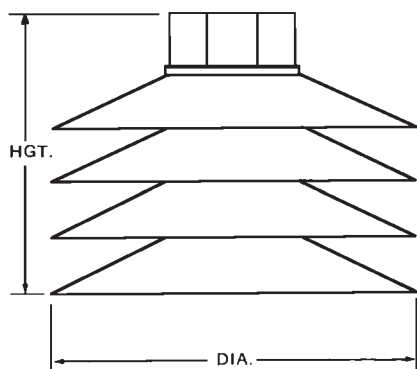
Return Line Sump Diffusers are used to reduce the velocity of oil returning from the hydraulic system and are installed on the end of the return line, inside the reservoir. A velocity of 1 foot per second or less is desirable to prevent foaming and channeling of the hot oil.

Lenz Disc Type Sump Diffusers are designed to slow down and spread out the returning oil, to mix with remaining cool oil in the sump. Specify 8 or 30 mesh wire cloth in these assemblies.

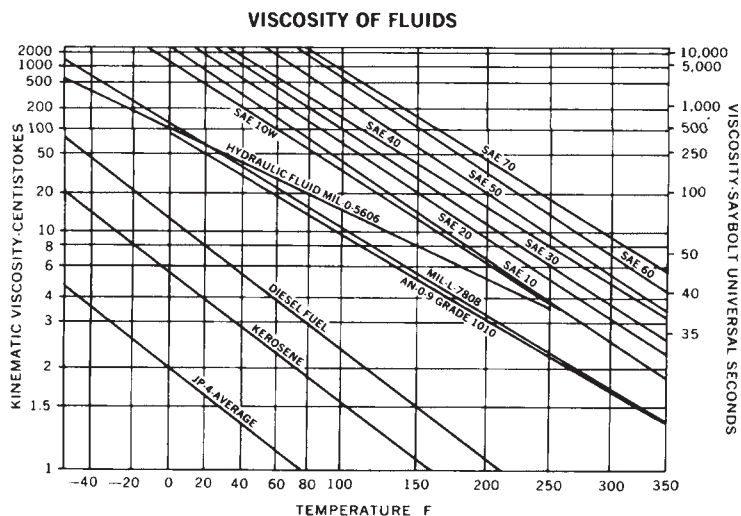


Dimensional Details

MODEL NUMBERS	PIPE SIZE	GPM	DIMENSIONS DIA.	HGT.
75R2	3/4"	25	3 3/4"	1 3/4"
100R3	1"	40	3 3/4"	2 1/2"
125R3	1 1/4"	50	4 1/4"	2 9/16"
150R3	1 1/2"	60	5"	2 5/8"
150R4	1 1/2"	80	5"	3"
200R3	2"	90	6"	2 3/8"
200R4	2"	115	6"	2 3/4"
250R4	2 1/2"	115	6"	3"



TYPICAL MOUNTING POSITION



(View of disc screen)



FILTERS – ACTUAL SIZE MESH

LENZ Cleanable Wire Cloth Filters are equipped with Stainless Steel Wire Cloth Elements. The filtering insert elements are available from a coarse 30 mesh up to a fine 200 mesh. To better illustrate mesh sizes, we have shown below the actual size mesh of the 100, 80, 50, 40, and 30 mesh stainless steel wire screen. We have 10 and 25 micron pleated paper elements as well as 10 micron synthetic available.

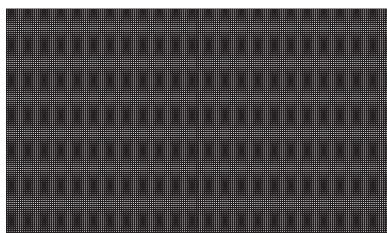
We stock the 200, 100, 60, and 30 Stainless Steel Wire Mesh Screen. (100 Mesh—Standard)

200 MESH

Wire diameter .0021
Width of opening .0029
Microns = 74
33.6% of open area

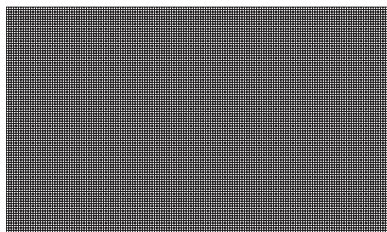
150 MESH

Wire diameter .0026
Width of opening .0041
Microns = 105



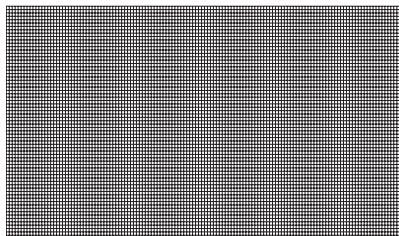
100 MESH

Wire diameter .0045
Width of opening .0055 = 141 Microns
30.3% of open area



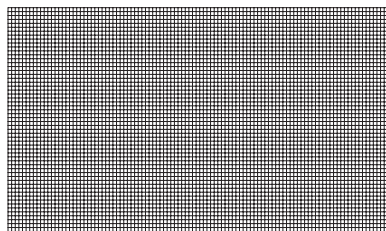
80 MESH

Wire diameter .0055
Width of opening .0070 = 180 Microns



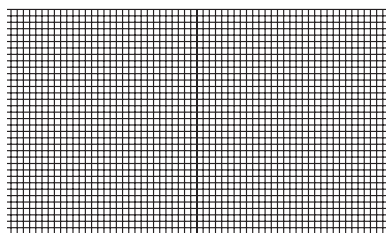
60 MESH

Wire diameter .0065
Width of opening .0102 = 262 Microns
37.5% of open area



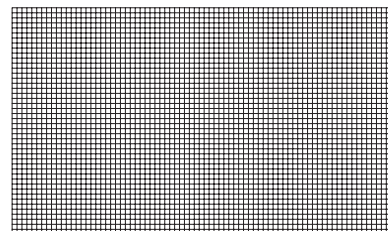
50 MESH

Wire diameter .0080
Width of opening .0120 = 308 Microns



30 MESH

Wire diameter .0120
Width of opening .0213 = 546 Microns
44.8% of open area



40 MESH

Wire diameter .0100
Width of opening .0150 = 385 Microns

$$\beta_x = \frac{\text{Number of Particles greater than X microns upstream}}{\text{Number of particles greater than X Microns downstream}}$$

$$\beta_5 = 10/1 = 10$$

