



Filter Products
C O M P A N Y

MARADYNE

FLUID POWER GROUP

PRODUCT CATALOG



(804) 231-4646 www.filterproducts.com



Filter Products C O M P A N Y



CAPABILITIES

Filter Manufacturing Assembly
Complex Manufacturing
Injection & Roto Molding
Electric Motors & Fans
ISO 5011 Air Filter Lab



PRODUCTS & BRANDS

turbo® Precleaners
FPC
Filtration Products
Marion Fluid Power
Hydraulic Filtration
Greenlees Filter
Filtration Systems & Solutions
Pow-R-Quik Starters
Heavy Duty Starters for Oil/Gas,
Marine Engines
HUMMER Vehicle Upgrades Kits



PRODUCT CATALOG

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HIGH PRESSURE BALL VALVES



FEATURES

- “Floating Ball” design insures a positive, leak-free seal and automatically compensates for any seat wear or misalignment.
- Available in Carbon Steel and Stainless Steel.
- 1/4" turn position operation.
- Hard-chrome plated micro-smooth ball greatly reduces friction and seat wear.
- Ball seats are available in a variety of materials to suit your special applications.
- Full size ports on most two-way valves virtually eliminates pressure drop.
- Maradyne Ball Valves offer completely bidirectional operation, eliminating any chance of incorrect installation.
- No lubrication or maintenance required for the life of the valve.
- Maradyne Valves are easily and completely repairable.
- Long seal life.

CONSTRUCTION

- Block body design for sizes up to and including DN 25
- Forged body design for sizes DN 32 through DN 50
- Supplied with offset handle

STANDARD MATERIALS

- Body: Carbon Steel, zinc/iron-plated
- Ball: Carbon Steel, hard chrome plated
- Stem: Carbon Steel
- Handle: Carbon Steel
- Ball Seat: Polyacetal
- O-Rings: Fluorocarbon elastomer (Viton®)

CONNECTIONS

- Female NPT thread (ANSI B1.20.1)
- Female SAE J514 ports
- JIC
- Code 61
- Code 62
- BSP
- Male ORFS

PRESSURE RANGE

- 6000 psi [420 Bar] to 7250 psi [500 Bar] depending on size.

TEMPERATURE RANGE

- Operating Range: -4°F to 212°F [-20°C to 100°C]

2-WAY BALL VALVES with SAE & NPT CONNECTIONS

FEATURES:

- 1/4" - 2" Full Port Design
- NPT or SAE O-ring connections
- Polyacetal ball seals (standard)
- Fluorocarbon Elastomer (Viton®) O-rings (standard)
- Carbon steel housing
- Block Housing — sizes 06 - 25
- Forged housing — sizes 32 - 50
- Operating pressure to 7250 psi depending on valve size and seal materials selected
- Temp range: -4°F to 212°F [-20°C to 100°C] with standard materials.



BVB2 06 SAE C V 1

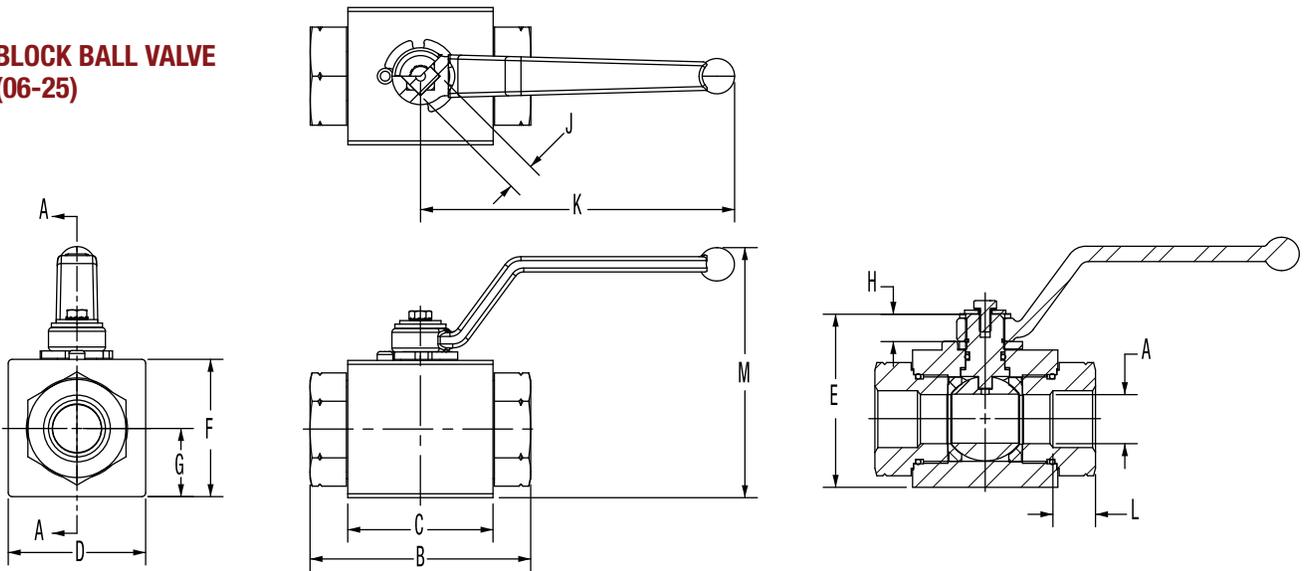
BVB2 BVF2	H.P. Block Ball Valve Sizes 06-25 H.P. Forged Ball Valve Sizes 32, 40, 50				
Nominal Bore Size mm	Port Dash Size	NPT ANSI B1.20.1	SAE J514		
06	-04	1/4"	7/16-20UNF		
10	-06	3/8"	9/16-18UNF		
13	-08	1/2"	3/4-16UNF		
20	-12	3/4"	1-1/16-12UN		
25	-16	1"	1-5/16-12UN		
32	-20	1-1/4"	1-5/8-12UN		
40	-24	1-1/2"	1-7/8-12UN		
50	-32	2"	2-1/2-12UN		

					Handle Locking Device
				0	None None
				1	LD Standard
				2	TP Tamper Proof
					Seals
				V	Fluorocarbon Elastomer (Viton®) Standard
				B	Buna-Nitrile
					Material
				C	Carbon Steel
				S	Stainless Steel

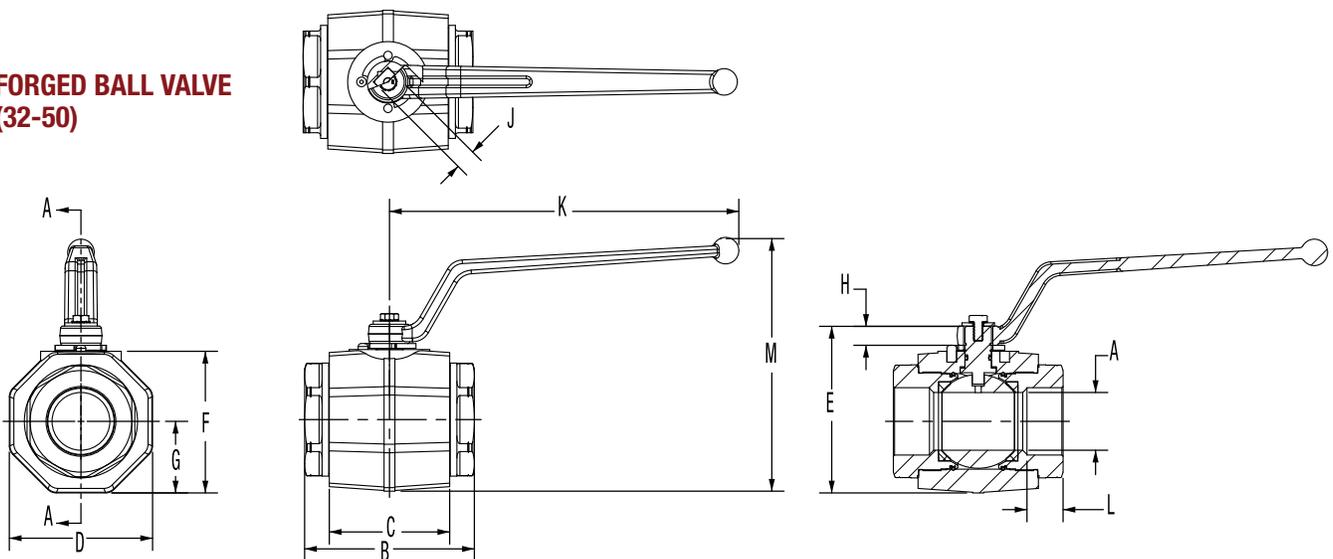
All Threads Internal

HIGH PRESSURE BALL VALVES — NPT

BLOCK BALL VALVE (06-25)



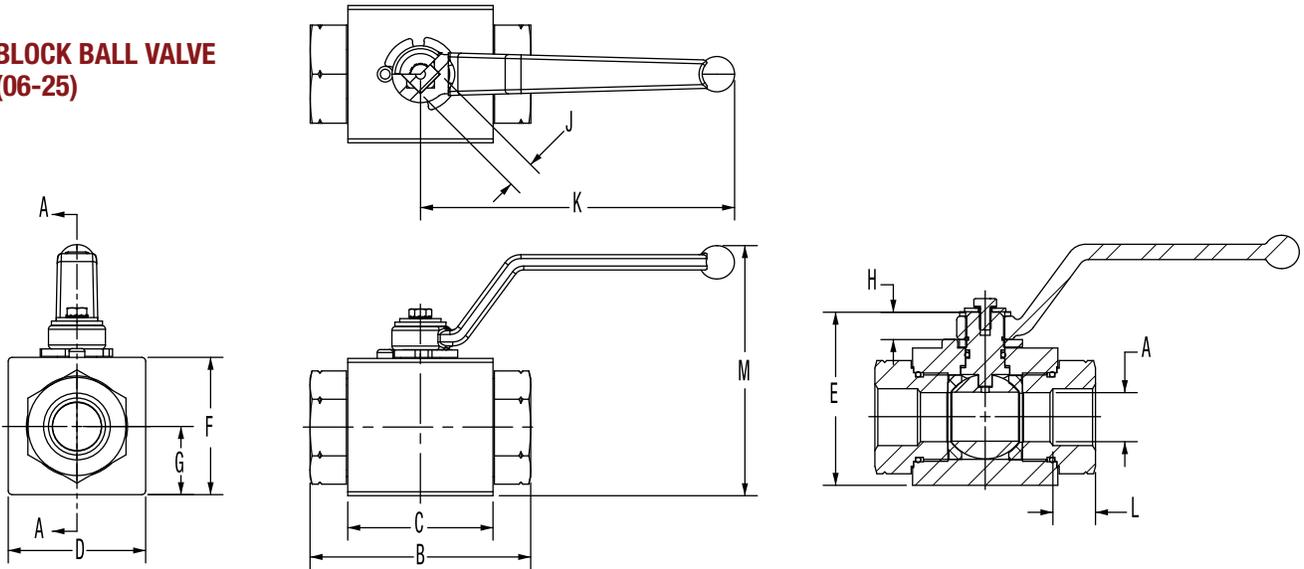
FORGED BALL VALVE (32-50)



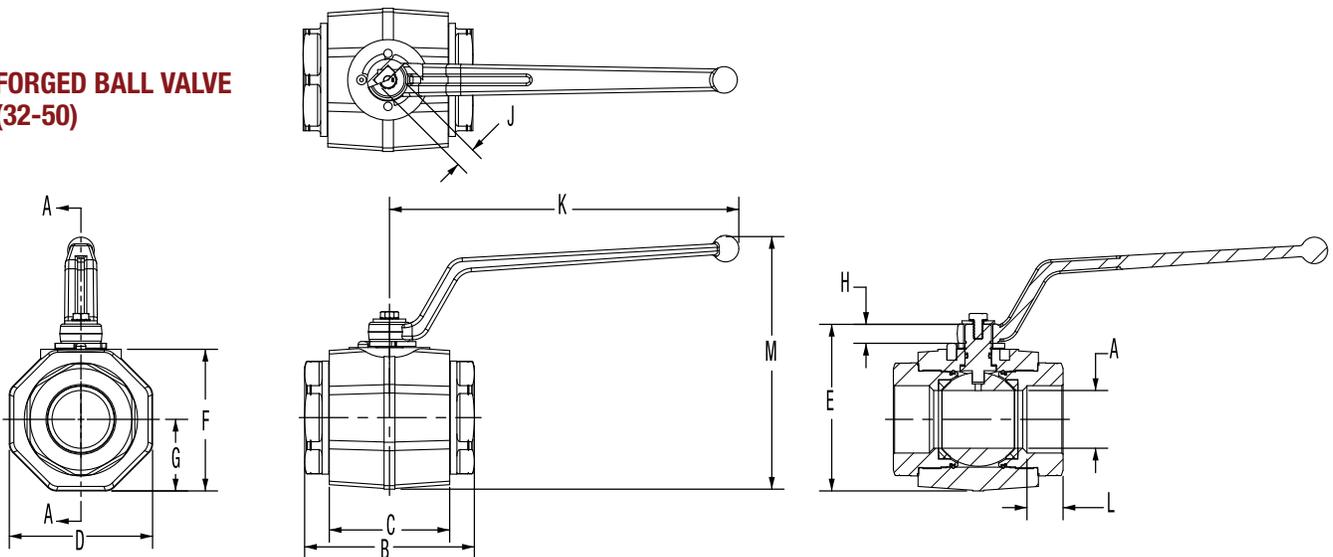
DN Nominal Size mm	Thread Size	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	M mm	Nom. Press. psi	BAR	Weight lbs	kg
6	1/4 NPT	6	69	40	26	47	33	13.5	11	9	115	13.7	82	7250	500	0.88	0.40
10	3/8 NPT	10	72	43	32	52	38	17.5	11	9	115	13.5	87	7250	500	1.10	0.50
13	1/2 NPT	13	83	48	35	54	40	19	11	9	115	17	89	7250	500	1.65	0.75
20	3/4 NPT	20	95	62	49	75	57	24.5	14	14	170	18.3	126	6000	420	3.57	1.63
25	1 NPT	25	113	74	70	88	70	34.5	14	14	170	20	139	6000	420	6.97	3.16
32	1-1/4 NPT	32	111	80	81	107	86	40.5	16.5	17	306	22	171	6000	420	7.63	3.47
40	1-1/2 NPT	38	130	85	100	124	103	50	16.5	17	306	24	188	6000	420	12.47	5.67
50	2 NPT	48	140	100	118	138	117	59	16.5	17	306	26	202	6000	420	17.91	8.14

HIGH PRESSURE BALL VALVES — SAE

BLOCK BALL VALVE (06-25)



FORGED BALL VALVE (32-50)



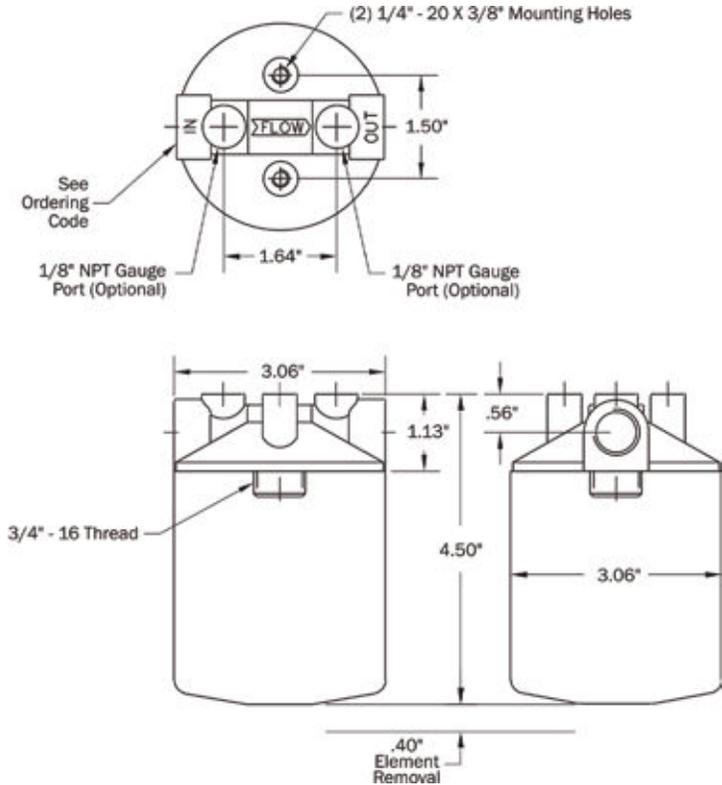
DN	Port		A	B	C	D	E	F	G	H	J	K	L	M	Nom. Press.		Weight	
Nominal Size mm	SAE J514 Dash Size	Thread Size	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	psi	BAR	lbs	kg
6	-04	7/16-20 UNF	6	69	40	26	47	33	13.5	11	9	115	14	82	7250	500	0.88	0.40
10	-06	9/16-18 UNF	10	72	43	32	52	38	17.5	11	9	115	14	87	7250	500	1.10	0.50
13	-08	3/4-16 UNF	13	83	48	35	54	40	19	11	9	115	16.3	89	7250	500	1.54	0.70
20	-12	1-1/16-12 UN	20	95	62	49	75	57	24.5	14	14	170	18	126	6000	420	3.10	1.50
25	-16	1-5/16-12 UN	25	121	74	70	88	70	34.5	14	14	170	20	139	6000	420	4.85	2.20
32	-20	1-5/8-12 UN	30	111	80	81	107	86	40.5	16.5	17	306	20	171	6000	420	7.75	3.52
40	-24	1-7/8-12 UN	38	130	85	100	124	103	50	16.5	17	306	20	188	6000	420	12.52	5.69
50	-32	2-1/2-12 UN	45	140	100	118	138	117	59	16.5	17	306	20	202	6000	420	17.91	8.14

15 SERIES SPIN-ON FILTER HEADS

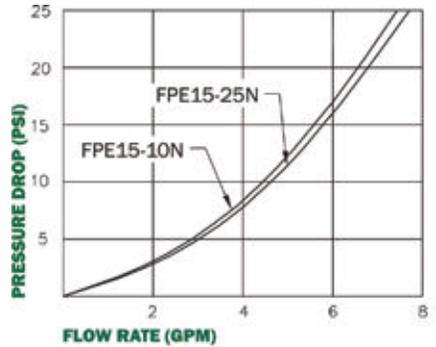
SPECIFICATIONS

Port Sizes	1/4", 3/8" NPT and SAE-6
Working Pressure	200 PSI (13.7 BAR) Maximum
Flow Capacity	7 GPM (Return) 2 GPM (Suction)
Operating Temperature	225° F (107° C) Maximum
Fluid Compatibility	Petroleum based hydraulic fluids
Post Size	3/4"-16 SAE

DIMENSIONS

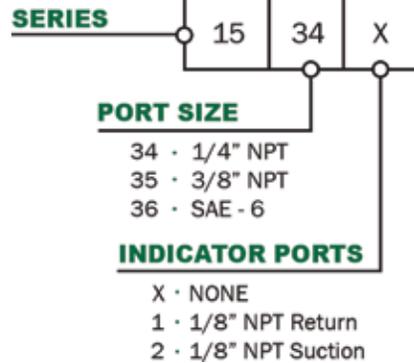


PRESSURE DROP



Clean element pressure drop using 150 SSU oil at 100°F

ORDERING CODE



FILTER ELEMENTS (ordered separately)

PART NUMBER	MICRON RATING	BY-PASS	AVG. BETA
FPE15-10N	10	None	2
FPE15-10N-18	10	18 PSI	2
FPE15-25N	25	None	2

- Other micron and by-pass configurations are available
- 200 PSI maximum operating pressure.
(80 PSI maximum without by-pass)
- Operating temperature to 225° F (107° C).
- Petroleum based fluids only.

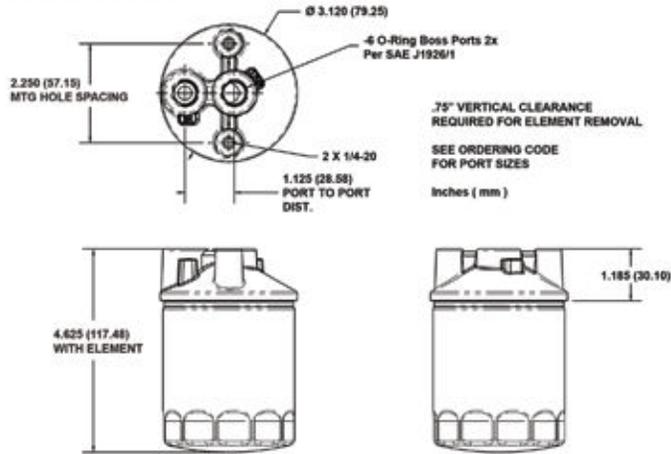
Note: Do not use these filter elements on internal combustions engines

16 SERIES SPIN-ON FILTER HEADS

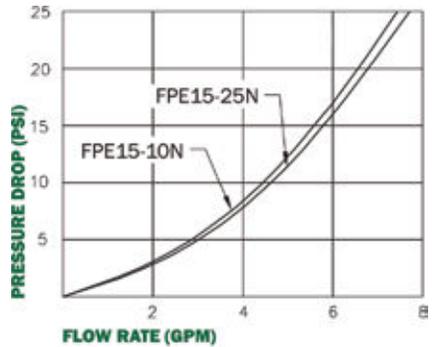
SPECIFICATIONS

Port Sizes	3/8" NPT and SAE-6
Working Pressure	200 PSI (13.7 BAR) Minimum
Flow Capacity	7 GPM (Return) 2 GPM (Suction)
Operating Temperature	225° F (107° C) Maximum
Fluid Compatibility	Petroleum based hydraulic fluids
Post Size	3/4"-16

DIMENSIONS



PRESSURE DROP



Clean element pressure drop using 150 SSU oil at 100°F

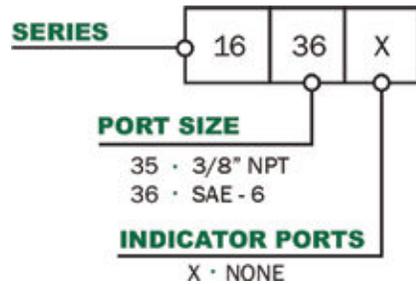
FILTER ELEMENTS (ordered separately)

PART NUMBER	MICRON RATING	BY-PASS	AVG. BETA
FPE15-10N	10	None	2
FPE15-10N-18	10	18 PSI	2

- Other micron and by-pass configurations are available
- 200 PSI maximum operating pressure. (80 PSI maximum without by-pass)
- Operating temperature to 225° F (107° C).
- Petroleum based fluids only.

Note: Do not use these filter elements on internal combustions engines

ORDERING CODE



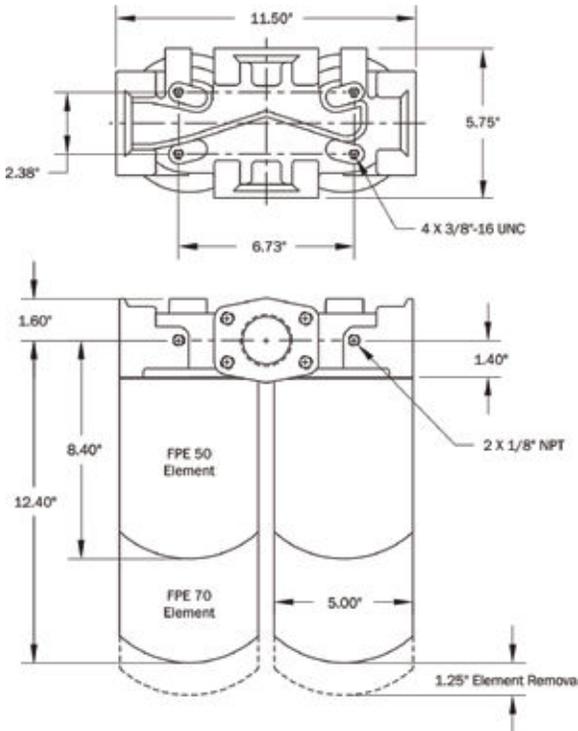
21 SERIES DUAL SPIN-ON FILTER HEAD



SPECIFICATIONS

Working Pressure	200 PSI (13.7 BAR) Maximum 75 PSI Maximum without bypass
Flow Capacity	100 GPM (378 LPM)
Operating Temperature	225° F (107° C) Maximum
Shipping Weight	9 lbs
Fluid Compatibility	Petroleum based oils, high water based fluids, water glycols and oil/water emulsions.
By-Pass Valve Cracking Pressure	3, 5, 15, 25 PSI available All sizes +/- 10% of setting
By-Pass Valve	Nylon-glass lilled poppet. Steel
Post Size	1-1/2"-16 SAE

DIMENSIONS



ACCESSORIES

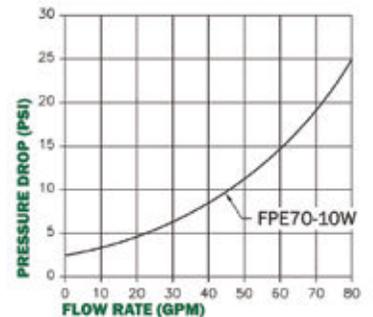
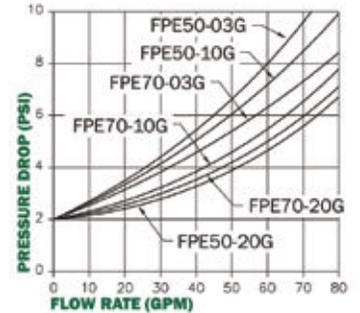
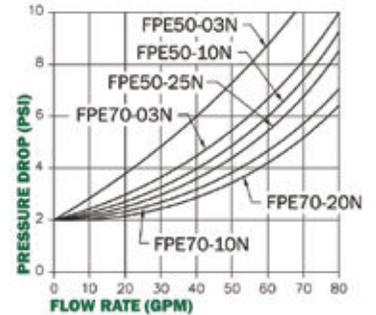
GAUGES

- P77-7003**
0-60 PSI Gauge (Indication at 15 PSI)
- P77-7004**
0-60 PSI Gauge (Indication at 25 PSI)
- P77-7021**
0-30" Hg Vacuum Gauge

SWITCHES

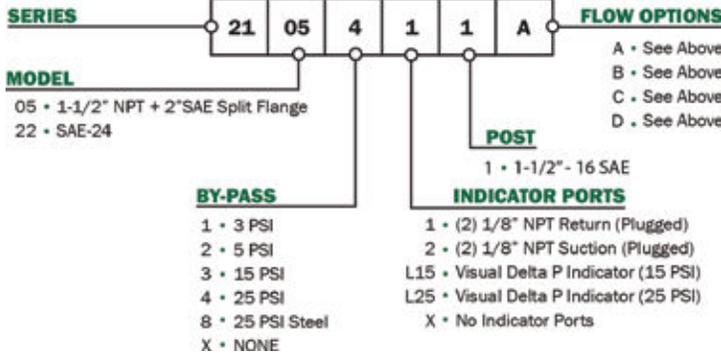
- P77-7006**
Electrical (with 12" wire leads)
Set point (rising) 22 PSI
- P77-7005**
Electrical (with DIN 43650 connector)
Set Point (rising) 22 PSI

PRESSURE DROP

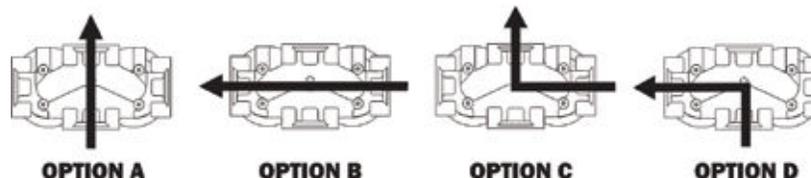


Clean element pressure drop using 150 SSU oil at 100°F.

ORDERING CODE



FLOW OPTIONS



21 SERIES DUAL SPIN-ON FILTER HEAD



STANDARD MODELS

MODEL NUMBER	PORT SIZE	BY-PASS	INDICATOR PORTS	POST SIZE	FLOW OPTIONS
2105411A	1-1/2" NPT	25 PSI	Inlet (2) 1/8" NPT	1-1/2" - 16	Code A
2105311A	1-1/2" NPT	15 PSI	Inlet (2) 1/8" NPT	1-1/2" - 16	Code A
2105411C	1-1/2" NPT	25 PSI	Inlet (2) 1/8" NPT	1-1/2" - 16	Code C
2105311C	1-1/2" NPT	15 PSI	Inlet (2) 1/8" NPT	1-1/2" - 16	Code C
2122411A	SAE-24	25 PSI	Inlet (2) 1/8" NPT	1-1/2" - 16	Code A
2122311C	SAE-24	15 PSI	Inlet (2) 1/8" NPT	1-1/2" - 16	Code C

FILTER ELEMENTS

PART NUMBER	ELEMENT LENGTH	RATING B(x)=2/20/75	AREA (Sq. In.)	MEDIA TYPE
FPE50-03N	7"	1μ/8μ/12μ	850	Cellulose
FPE70-03N	11"	1μ/8μ/12μ	1530	Cellulose
FPE50-10N	7"	14μ/28μ/36μ	664	Cellulose
FPE70-10N	11"	14μ/28μ/36μ	1227	Cellulose
FPE50-25N	7"	16μ/35μ/47μ	568	Cellulose
FPE70-25N	11"	16μ/35μ/47μ	1052	Cellulose
FPE70-10W	11"	10μ/18μ/ -	648	Water Removal
FPE50-03G	7"	1.5μ/2.5μ/3μ	490	Microglass
FPE70-03G	11"	1.5μ/2.5μ/3μ	882	Microglass
FPE50-10G	7"	2μ/7μ/12μ	490	Microglass
FPE70-10G	11"	2μ/7μ/12μ	882	Microglass
FPE50-20G	7"	7μ/16μ/23μ	490	Microglass
FPE70-20G	11"	7μ/16μ/23μ	882	Microglass
FPE50-100M	7"	149μ	213	Wire Mesh
FPE70-100M	11"	149μ	365	Wire Mesh

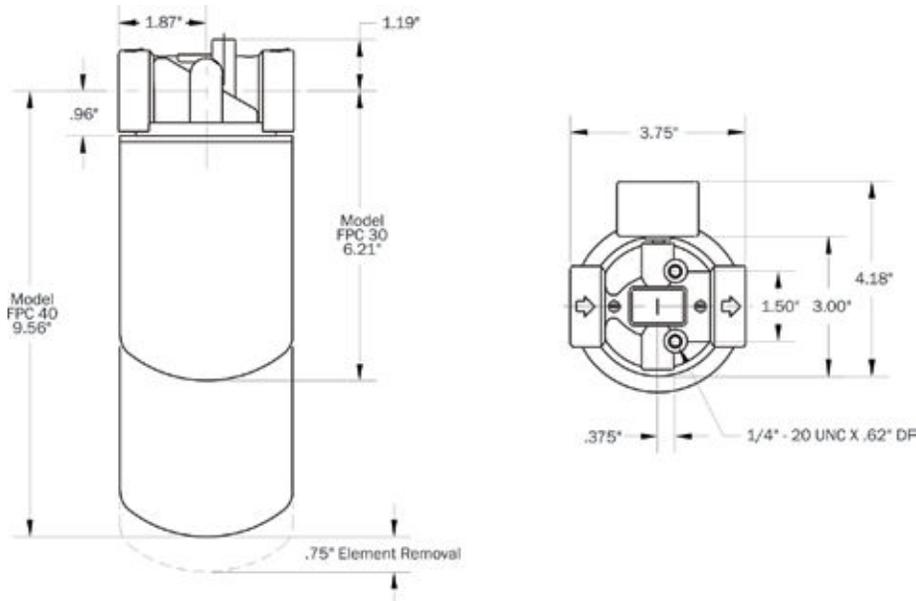
30 SERIES SPIN-ON FILTER HEAD



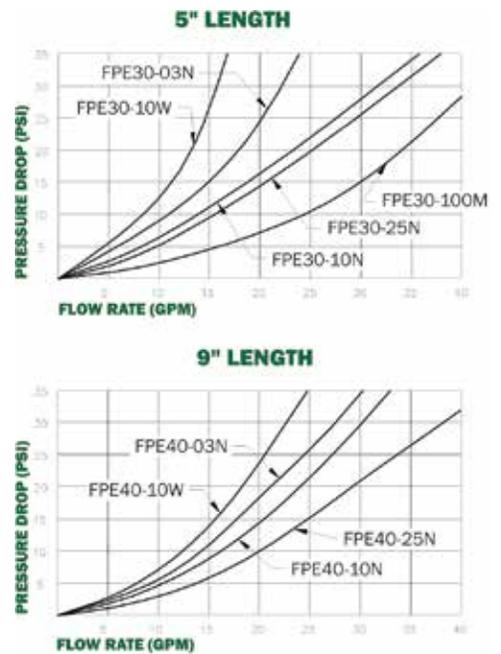
SPECIFICATIONS

Working Pressure	200 PSI (13.7 BAR) 75 PSI Maximum if non by-pass
Flow Capacity	18 GPM (67 LPM)
Operating Temperature	225° F (107° C) Maximum
Shipping Weight	0.8 lbs
Fluid Compatibility	Petroleum based oils, high water based fluids, water glycols and oil/water emulsions.
By-Pass Valve Cracking Pressure	3, 5, 15, 25 PSI available
By-Pass Valve Post Size	All ratings +/- 10% of setting. Nylon-glass filled poppet. Optional steel poppet available 1"-12

DIMENSIONS



PRESSURE DROP



Clean element pressure drop using 150 SSU oil at 100°F.

STANDARD MODELS

MODEL NUMBER	PORT SIZE	BY-PASS	INDICATOR PORTS
FPC3008SXXNX	SAE 8	None	None
FPC3012NXAR3X	3/4" NPT	15 PSI	Return
FPC3012NXAR4X	3/4" NPT	25 PSI	Return
FPC3012NXXR3X	3/4" NPT	15 PSI	None
FPC3012NXXR4X	3/4" NPT	25 PSI	None
FPC3012NXXNX	3/4" NPT	None	None
FPC3012SXXR4X	SAE 12	25 PSI	None
FPC3016NXAR4X	1" NPT	25 PSI	Return
FPC3016NXXNX	1" NPT	None	None

30 SERIES SPIN-ON FILTER HEAD



ACCESSORIES

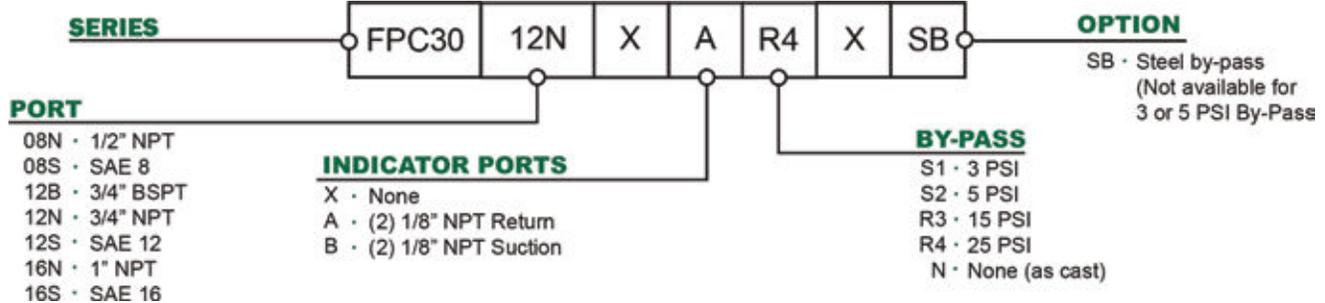
GAUGES

- P77-7003**
0-60 PSI Gauge (Indication at 15 PSI)
- P77-7004**
0-60 PSI Gauge (Indication at 25 PSI)
- P77-7021**
0-30" Hg Vacuum Gauge

SWITCHES

- P77-7006**
Electrical (with 12" wire leads .
Set point (rising) 22 PSI.
- P77-7005**
Electrical (with DIN 43650 connector)
Set point (rising) 22 PSI.

ORDERING CODE



FILTER ELEMENTS

PART NUMBER	ELEMENT LENGTH	RATING B(x)=2/20/75	AREA (Sq. In.)	MEDIA TYPE
FPE30-03N	5"	4μ/7μ/11μ	392	Cellulose
FPE30-10N	5"	6μ/8μ/13μ	452	Cellulose
FPE30-25N	5"	25μ/35μ/43μ	380	Cellulose
FPE30-100M	5"	149μ	90	S.S. Wire Mesh
FPE30-03G	5"	1.25μ/2.25μ/5μ	N/A	Microglass
FPE30-10G	5"	3μ/5.5μ/12μ	N/A	Microglass
FPE40-10N	9"	6μ/8μ/13μ	724	Cellulose
FPE40-25N	9"	24μ/35μ/43μ	724	Cellulose

50 SERIES SPIN-ON FILTER HEAD



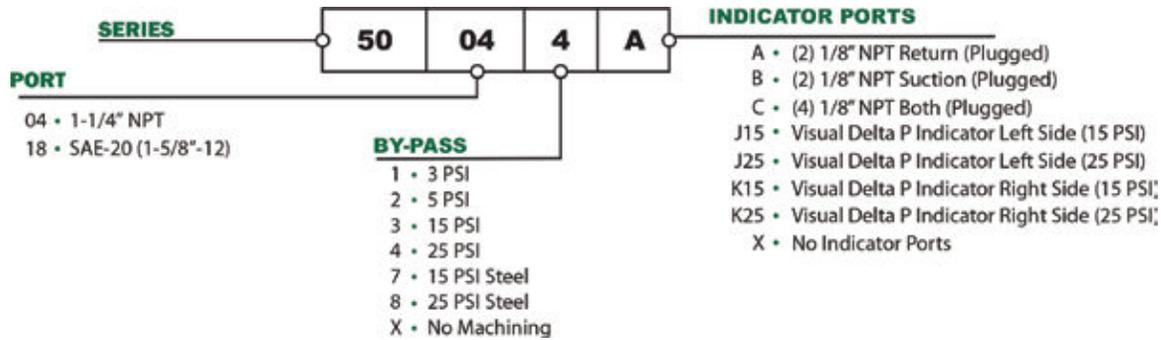
SPECIFICATIONS

Working Pressure	200 PSI (13.7 BAR) 75 PSI Maximum without bypass
Flow Capacity	50 GPM (378 LPM)
Operating Temperature	225° F (107° C) Maximum
Shipping Weight	12 lbs
Fluid Compatability	Petroleum based oils, high water based fluids, water glycols and oil/water emulsions.
By-Pass Valve Cracking Pressure	3, 5, 15, 25 PSI available
Post Size	All ratings +/- 10% of setting 1-1/2-16UN-2A

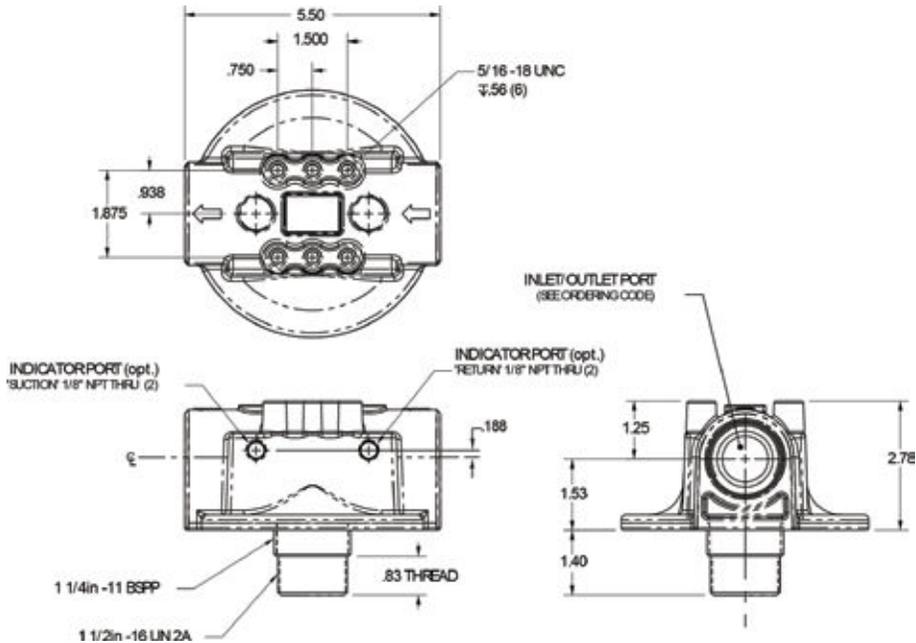
STANDARD MODELS

MODEL NUMBER	PORT SIZE	BY-PASS	INDICATOR PORTS
50044A	1-1/4" NPT	25 PSI	(2) 1/8" NPT
50044X	1-1/4" NPT	25 PSI	(2) 1/8" NPT
50184A	1-1/4" NPT	25 PSI	(2) 1/8" NPT
50184X	1-1/4" NPT	25 PSI	(2) 1/8" NPT

ORDERING CODE



DIMENSIONS



50 SERIES SPIN-ON FILTER HEAD

ACCESSORIES

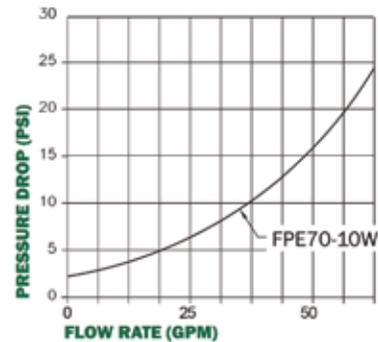
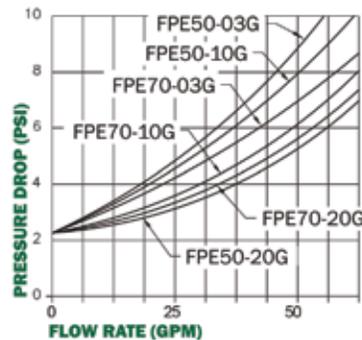
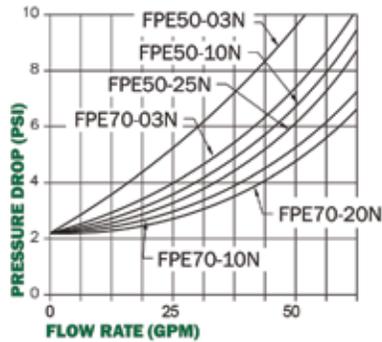
GAUGES

- P77-7003**
0-60 PSI Gauge (Indication at 15 PSI)
- P77-7004**
0-60 PSI Gauge (Indication at 25 PSI)
- P77-7021**
0-30" Hg Vacuum Gauge

SWITCHES

- P77-7006**
Electrical (with 12" wire leads)
Set point (rising) 22 PSI.
- P77-7005**
Electrical (with DIN 43650 connector)
Set point (rising) 22 PSI.

PRESSURE DROP



FILTER ELEMENTS

PART NUMBER	ELEMENT LENGTH	RATING B(x)=2/20/75	AREA (Sq. In.)	MEDIA TYPE
FPE 50-03N	7"	1μ/8μ/12μ	850	Cellulose
FPE 70-03N	11"	1μ/8μ/12μ	1530	Cellulose
FPE 50-10N	7"	14μ/28μ/36μ	664	Cellulose
FPE 70-10N	11"	14μ/28μ/36μ	1227	Cellulose
FPE 50-25N	7"	16μ/35μ/47μ	568	Cellulose
FPE 70-25N	11"	16μ/35μ/47μ	1052	Cellulose
FPE 70-10W	11"	10μ/18μ/ -	648	Water Removal
FPE 50-03G	7"	1.5μ/2.5μ/3μ	490	Microglass
FPE 70-03G	11"	1.5μ/2.5μ/3μ	882	Microglass
FPE 50-10G	7"	2μ/7μ/12μ	490	Microglass
FPE 70-10G	11"	2μ/7μ/12μ	882	Microglass
FPE 50-20G	7"	7μ/16μ/23μ	490	Microglass
FPE 70-20G	11"	7μ/16μ/23μ	882	Microglass
FPE 50-100M	7"	149μ	213	Wire Mesh
FPE 70-100M	11"	149μ	365	Wire Mesh

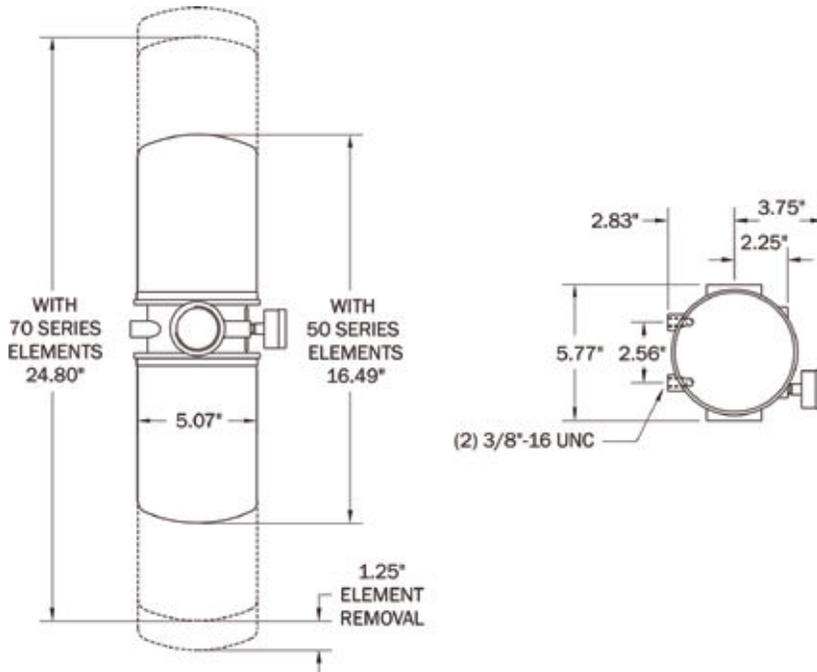
80 SERIES SPIN-ON FILTER HEAD



SPECIFICATIONS

Working Pressure	200 PSI (13.7 BAR) 75 PSI Maximum without bypass
Flow Capacity	100 GPM (378 LPM)
Operating Temperature	225° F (107° C) Maximum
Shipping Weight	2.8 lbs
Fluid Compatibility	Petroleum based oils, high water based fluids, water glycols and oil/water emulsions.
By-Pass Valve Cracking Pressure	3, 5, 15, 25 PSI by-pass available. All +/- % of setting
By-Pass Valve	Nylon-glass filled poppet. Steel valve optional
Post Size	1-1/2" - 16 SAE + 1-1/4" BSP

DIMENSIONS

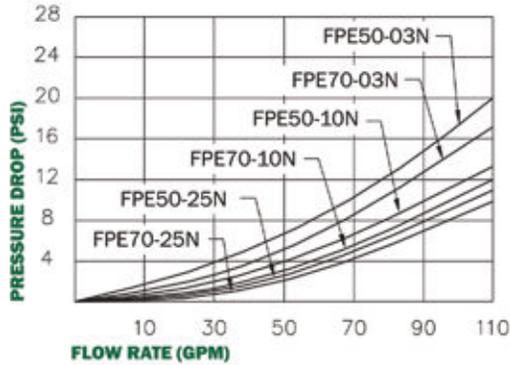


FILTER ELEMENTS

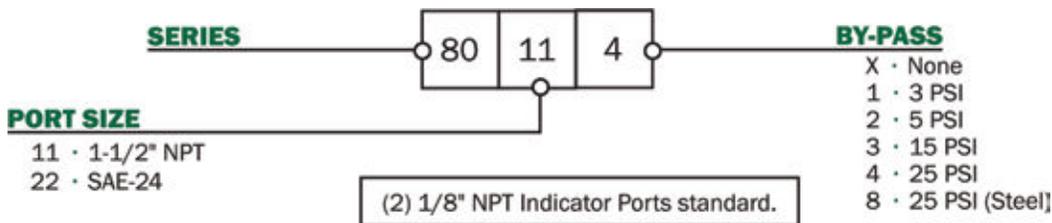
PART NUMBER	ELEMENT LENGTH	RATING B(x)=2/20/75	AREA (Sq. In.)	MEDIA TYPE
FPE50-03N	7"	1μ/8μ/12μ	850	Cellulose
FPE70-03N	11"	1μ/8μ/12μ	1530	Cellulose
FPE50-10N	7"	14μ/28μ/36μ	664	Cellulose
FPE70-10N	11"	14μ/28μ/36μ	1227	Cellulose
FPE50-25N	7"	16μ/35μ/47μ	568	Cellulose
FPE70-25N	11"	16μ/35μ/47μ	1052	Cellulose
FPE70-10W	11"	10μ/18μ/ -	648	Water Removal
FPE50-03G	7"	1.5μ/2.5μ/3μ	490	Microglass
FPE70-03G	11"	1.5μ/2.5μ/3μ	882	Microglass
FPE50-10G	7"	2μ/7μ/12μ	490	Microglass
FPE70-10G	11"	2μ/7μ/12μ	882	Microglass
FPE50-20G	7"	7μ/16μ/23μ	490	Microglass
FPE70-20G	11"	7μ/16μ/23μ	882	Microglass
FPE50-100M	7"	149μ	213	Wire Mesh
FPE70-100M	11"	149μ	365	Wire Mesh

80 SERIES SPIN-ON FILTER HEAD

PRESSURE DROP



ORDERING CODE



ACCESSORIES

GAUGES

P77-7003
0-60 PSI Gauge (Indication at 15 PSI)

P77-7004
0-60 PSI Gauge (Indication at 25 PSI)

P77-7021
0-30" Hg Vacuum Gauge

SWITCHES

P77-7006
Electrical (with 12" wire leads)
Set point (rising) 22 PSI.

P77-7005
Electrical (with DIN 43650 connector)
Set Point (rising) 22 PSI.

100 SERIES SPIN-ON FILTER HEAD



SPECIFICATIONS

Working Pressure

140 PSI (10 BAR) Maximum
75 PSI Maximum without bypass

Flow Capacity

80 GPM (300 LPM)

Operating Temperature

225° F (107° C) Maximum

Shipping Weight

6 lbs

Fluid Compatibility

Petroleum based oils, high water based fluids, water glycols and oil/water emulsions.

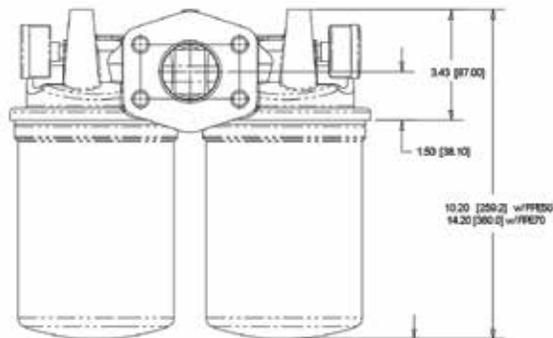
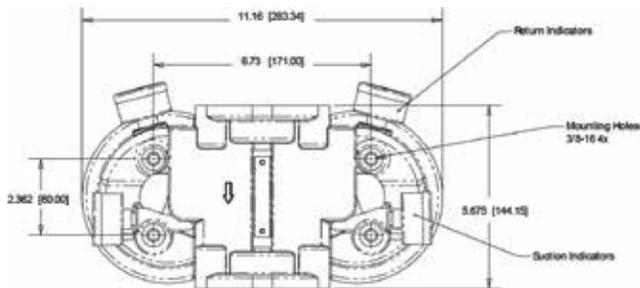
By-Pass Valve Cracking Pressure

3, 5, 15, 25 PSI by-pass available
All sizes +/-10% of setting

Post Size

1-1/4" BSPP & + 1-1/2" UNF

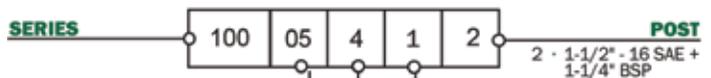
DIMENSIONS



Dimensional units in inch/millimeter

1.00 (40.64) Required For Service

ORDERING CODE



MODEL

05 • 1-1/2" NPTF + 2" SAE 4 Bolt
15 • 1-1/2" Split Flange Ports
22 • SAE -24 (1-7/8" - 12) Ports

BY-PASS

1 • 3 PSI
2 • 5 PSI
3 • 15 PSI
4 • 25 PSI
8 • 25 PSI - Steel
X • No Bypass

INDICATOR PORTS

A • (2) 1/8" NPT Return (Plugged)
B • (2) 1/8" NPT Suction (Plugged)
C • (4) 1/8" NPT (Return+Suction-Plugged)
L15 • Visual Delta P Indicator (15 PSI)
L25 • Visual Delta P Indicator (25 PSI)
X • No Indicator Ports

ACCESSORIES

GAUGES

P77-7003

0-60 PSI Gauge (Indication at 15 PSI)

P77-7004

0-60 PSI Gauge (Indication at 25 PSI)

P77-7021

0-30" Hg Vacuum Gauge

SWITCHES

P77-7006

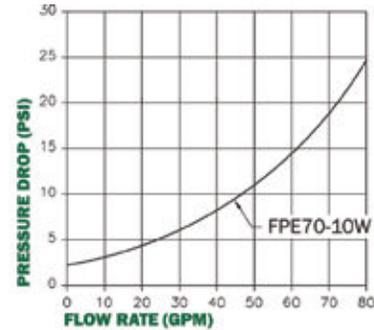
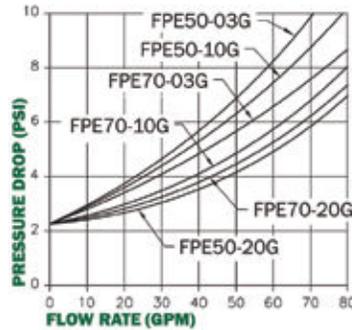
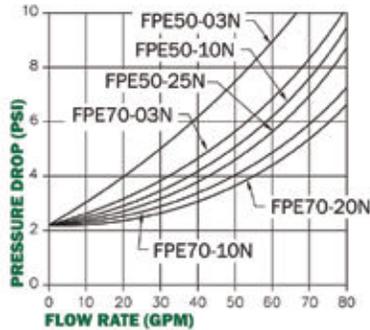
Electrical (with 12" wire leads)
Set point (rising) 22 PSI.

P77-7005

Electrical (with DIN 43650 connector)
Set Point (rising) 22 PSI.

100 SERIES SPIN-ON FILTER HEAD

PRESSURE DROP



STANDARD SIZE

MODEL NUMBER	PORT SIZE	BY-PASS	INDICATOR PORTS	POST SIZE
10005312	1-1/2" NPT + 2" SAE Split Flange	25 PSI	Return (2) 1/8" NPT	1-1/2" - 16, 1-1/4 BSPF

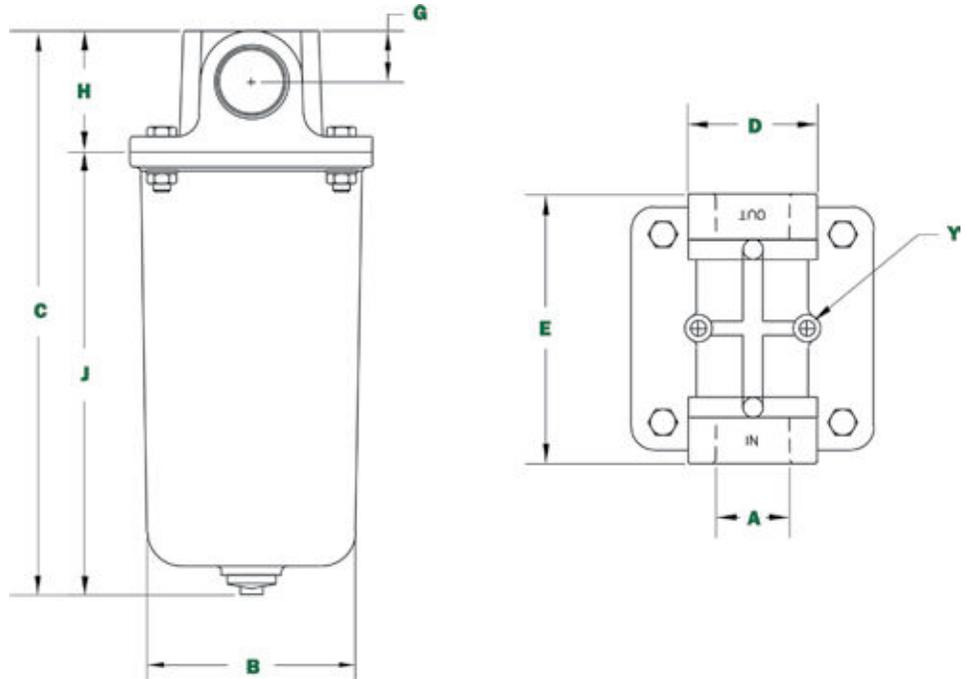
FILTER ELEMENTS

PART NUMBER	ELEMENT LENGTH	RATING B(x)=2/20/75	AREA (Sq. In.)	MEDIA TYPE
FPE 50-03N	7"	1μ/8μ/12μ	850	Cellulose
FPE 70-03N	11"	1μ/8μ/12μ	1530	Cellulose
FPE 50-10N	7"	14μ/28μ/36μ	664	Cellulose
FPE 70-10N	11"	14μ/28μ/36μ	1227	Cellulose
FPE 50-25N	7"	16μ/35μ/47μ	568	Cellulose
FPE 70-25N	11"	16μ/35μ/47μ	1052	Cellulose
FPE 70-10W	11"	10μ/18μ/ -	648	Water Removal
FPE 50-03G	7"	1.5μ/2.5μ/3μ	490	Microglass
FPE 70-03G	11"	1.5μ/2.5μ/3μ	882	Microglass
FPE 50-10G	7"	2μ/7μ/12μ	490	Microglass
FPE 70-10G	11"	2μ/7μ/12μ	882	Microglass
FPE 50-20G	7"	7μ/16μ/23μ	490	Microglass
FPE 70-20G	11"	7μ/16μ/23μ	882	Microglass
FPE 50-100M	7"	149μ	213	Wire Mesh
FPE 70-100M	11"	149μ	365	Wire Mesh

FPD SERIES IN-LINE FILTER MEDIUM PRESSURE



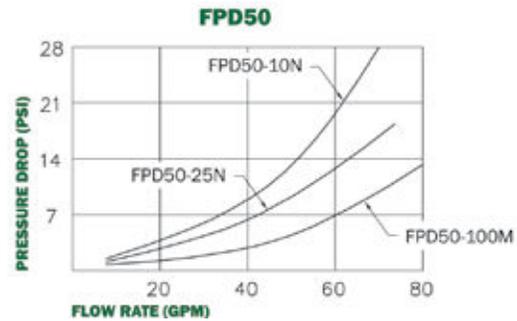
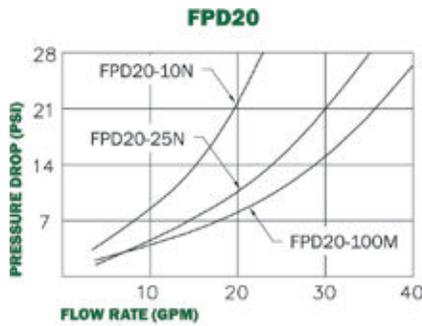
DIMENSIONS



FEATURES

- Cartridge Assemblies
- Pressures to 350 PSI (24 BAR)
- Flows to 75 GPM (284 LPM)
- Suction and Return Line Models
- Port Sizes 1/2" to 1-1/2" NPT
- Cellulose and Wire Mesh Media

PRESSURE DROP

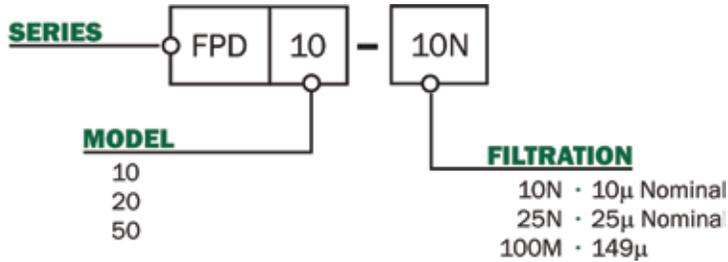


SPECIFICATIONS

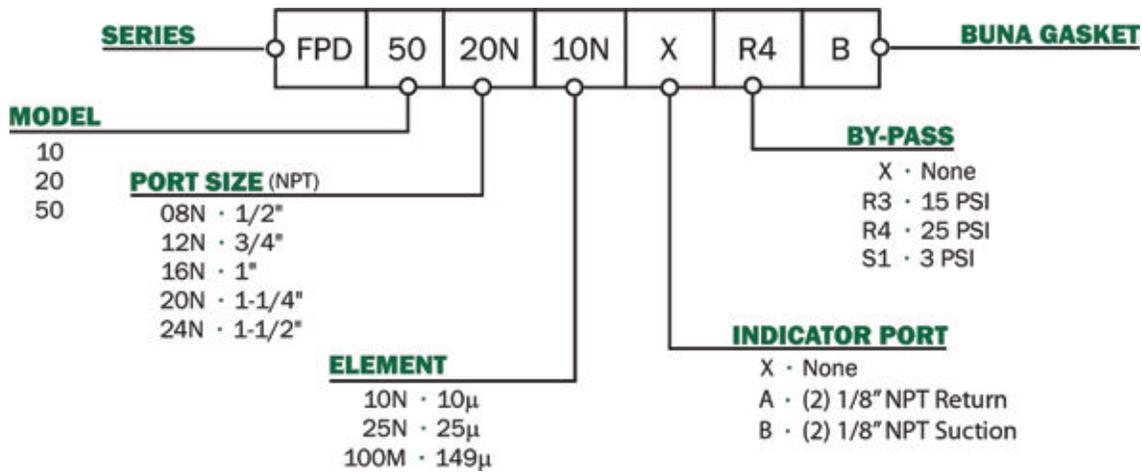
MODEL	PORT (A)	DIMENSIONS								ELEMENT AREA (Sq. in.)		WT (lbs)	
		B	C	D	E	G	H	J	M	Y	10/25 μ PAPER		149 μ SS MESH
FPD10	1/2"	2.50"	5.87"	1.50"	3.46"	.83"	1.73"	4.13"	.89"	3/8 - 16	143	49	1.98
FPD20	3/4" 1"	3.43"	7.28"	1.73"	4.49"	.91"	1.97"	5.31"	1.02"	3/8 - 16	342	120	3.97
FPD50	1-1/4" 1-1/2"	4.65"	11.81"	2.24"	5.59"	1.22"	2.56"	9.25"	1.97"	3/8 - 16	1122	325	7.94

FPD SERIES IN-LINE FILTER MEDIUM PRESSURE

FILTER ELEMENTS



ORDERING CODE



ACCESSORIES

GAUGES

P77-7003

0-60 PSI Gauge (Indication at 15 PSI)

P77-7004

0-60 PSI Gauge (Indication at 25 PSI)

P77-7021

0-30" Hg Vacuum Gauge

SWITCHES

P77-7006

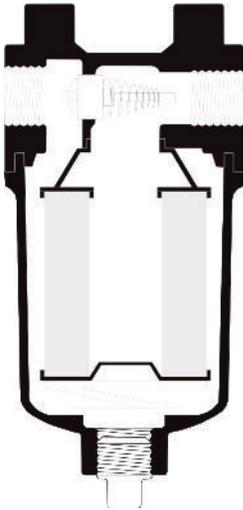
Electrical (with 12" wire leads)
Set point (rising) 22 PSI.

P77-7005

Electrical (with DIN 43650 connector)
Set Point (rising) 22 PSI.

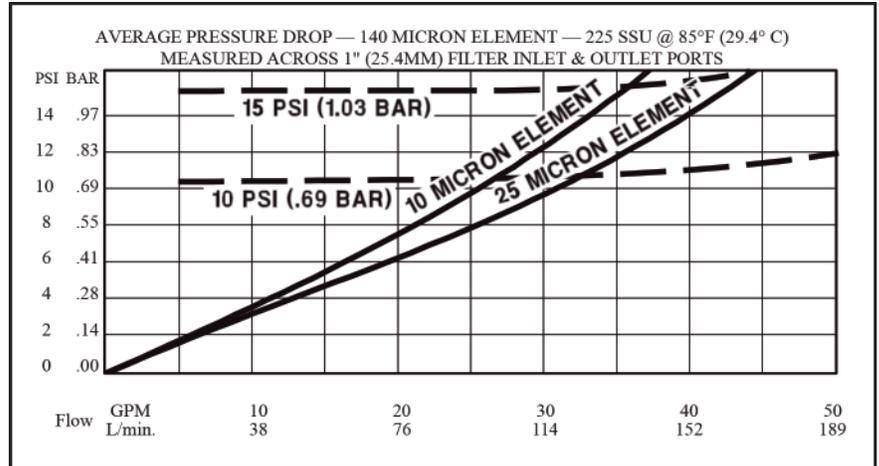
LOW PRESSURE T-LINE FILTERS

Series TC & TF (continued)



TC Series

Designed for use with petroleum and most water-base fluids, TC Series filters have a high-grade pleated paper element with corrosion-resistant metal end-caps, protective exterior perforated metal support, and integral gasket for leak-proof sealing. Replacement elements are easily installed for low-cost maintenance.



Nominal
Size Particle
Retention
Rating

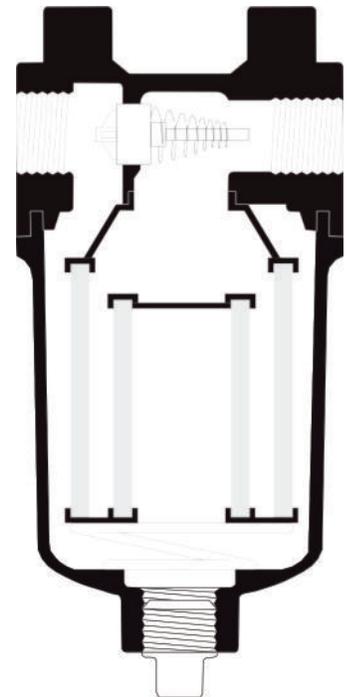
Element Area 450 in. ² (2903 cm ²)
--

10 micron	TC68
25 micron	TC69
Replacement Paper Element Only	
10 micron	C68, B ₁₀ = 2.2
25 micron	C69, B ₂₅ = 2.1
Dirt Holding Capacity	
16.1 grams	C68
23.8 grams	C69

Nominal
Size Particle
Retention
Rating

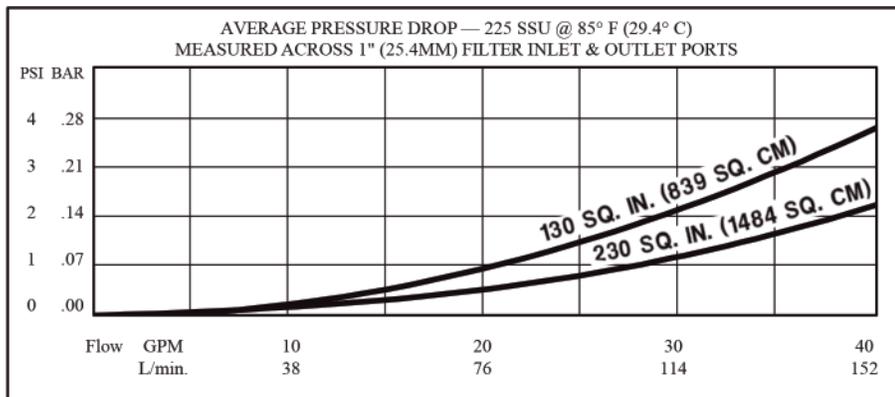
Element Area	
130 in. ² (839 cm ²)	230 in. ² (1484 cm ²)

40 micron	TF22	TF42
74 micron	TF23	TF43
150 micron	TF25	TF45
262 micron	TF27	TF47



TF Series

TF Series filters feature a patented wire cloth dual-element — actually two elements mounted coaxially in a single assembly. This unique dual element provides 50% longer life between cleanings, because element area is 50% larger than comparable single-edge elements. Take-apart



22 SERIES TANK MOUNTED RETURN LINE FILTER ASSEMBLY



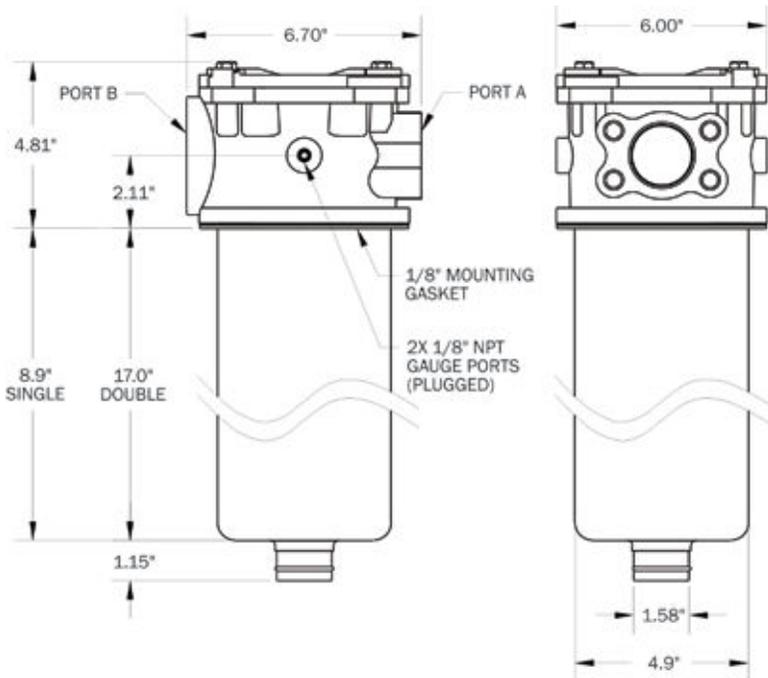
SPECIFICATIONS

Working Pressure	100 PSI (6.9 BAR)
Flow Capacity	100 GPM (378 LPM)
Operating Temperature	225° F (107° C) Maximum
Shipping Weight	Single Bowl: 10 lbs Double: 20 lbs
Fluid Compatibility	Petroleum based oils, high water based fluids, water glycols and oil/water emulsions.
By-Pass Valve Cracking Pressure	All sizes +/-10% of setting
Port Size	NPT: 1-1/4", 1-1/2", 2" SAE: 20, 24, 32 Split Flange: 1-1/2 SAE

FEATURES

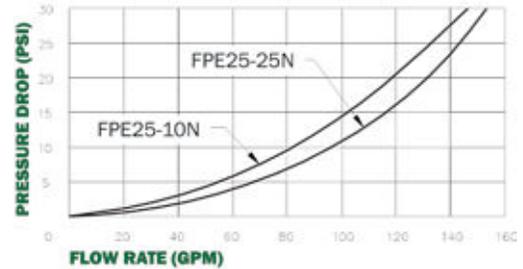
- Cast aluminum head
- Steel bowl
- Variety of Port Sizes
- Element interchange with Schroeder "K" series
- Indicator ports available
- Options: magnet, check valve, and mounting kits

DIMENSIONS

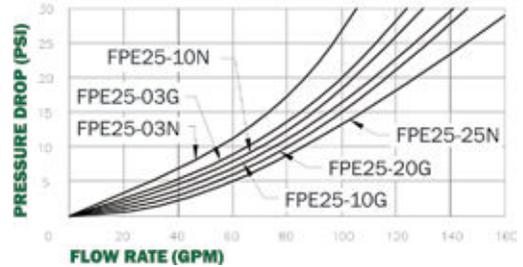


PRESSURE DROP

DOUBLE ELEMENT



SINGLE ELEMENT



STANDARD MODELS

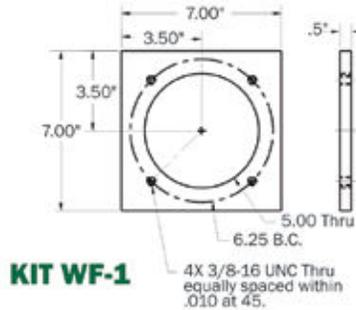
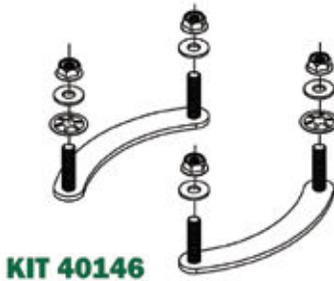
MODEL NUMBER	PORT SIZE	BY-PASS	INDICATOR PORTS (2)	ELEMENT
22043110N1	1-1/4" NPT	15 PSI	1/8" NPT	10 Micron
22043125N1	1-1/4" NPT	15 PSI	1/8" NPT	25 Micron
22044110N1	1-1/4" NPT	25 PSI	1/8" NPT	10 Micron
22044125N1	1-1/4" NPT	25 PSI	1/8" NPT	25 Micron
22183110N1	SAE-20	15 PSI	1/8" NPT	10 Micron
22184110N1	SAE-20	25 PSI	1/8" NPT	10 Micron
22183125N1	SAE-20	15 PSI	1/8" NPT	25 Micron
22184125N1	SAE-20	25 PSI	1/8" NPT	25 Micron

22 SERIES TANK MOUNTED RETURN LINE FILTER ASSEMBLY

FILTER ELEMENTS

PART NUMBER	RATING B(x)=2/20/75	AREA (Sq. In.)	MEDIA TYPE
FPE25-03N	4μ/7μ/11μ	990	Cellulose
FPE25-10N	6μ/8μ/13μ	1102	Cellulose
FPE25-25N	24μ/35μ/43μ	1102	Cellulose
FPE25-03G	1.3μ/2μ/3μ	731	Microglass
FPE25-05G	2μ/3μ/5μ	731	Microglass
FPE25-10G	4μ/10μ/13μ	731	Microglass
FPE25-10W	10μ/18μ/ -	675	Water Removal

MOUNTING KITS



ACCESSORIES

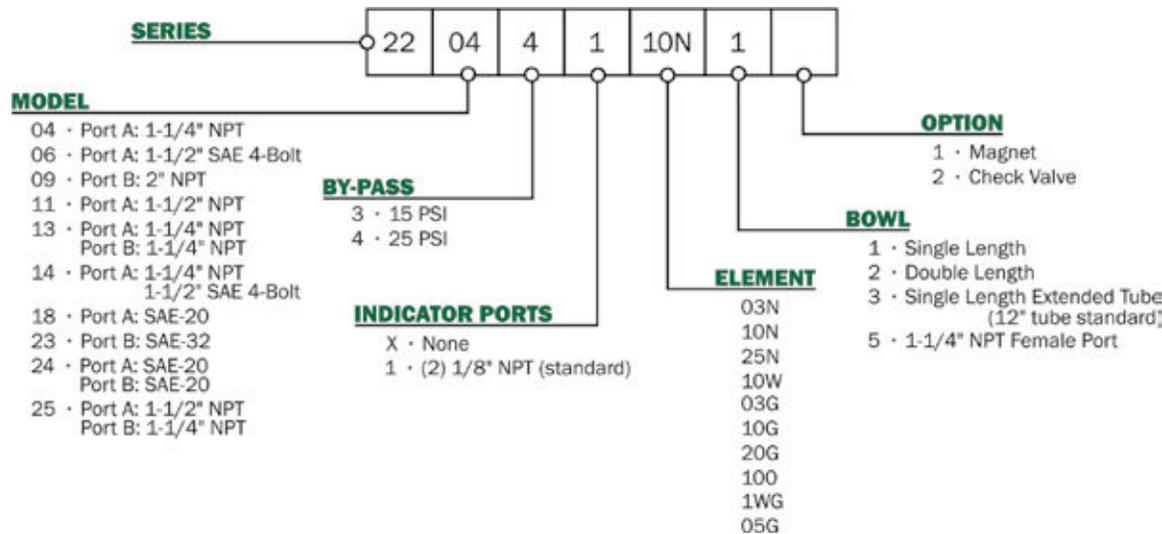
GAUGES

- P77-7003**
0-60 PSI Gauge (Indication at 15 PSI)
- P77-7004**
0-60 PSI Gauge (Indication at 25 PSI)

SWITCHES

- P77-7006**
Electrical (with 12" wire leads)
Set point (rising) 22 PSI.
- P77-7005**
Electrical (with DIN 43650 connector)
Set Point (rising) 22 PSI.

ORDERING CODE



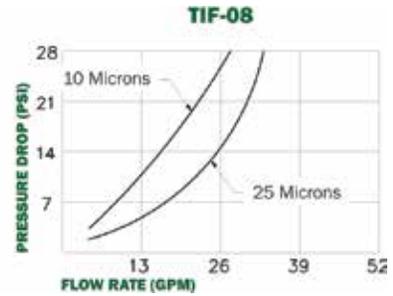
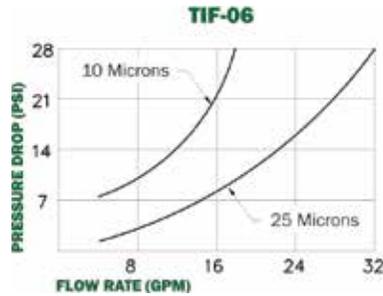
TIF SERIES TANK MOUNTED RETURN LINE FILTER ASSEMBLY



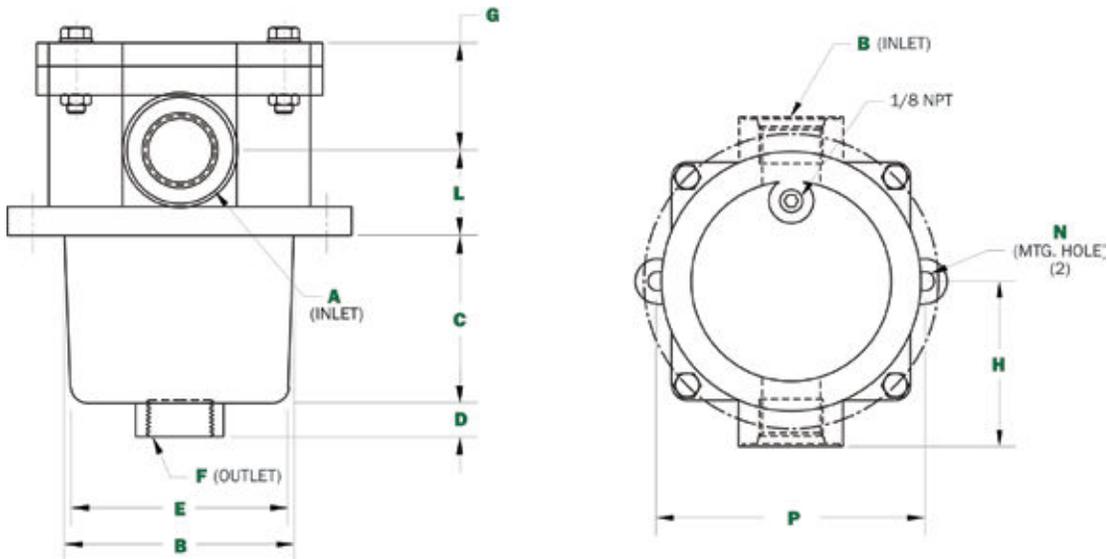
FEATURES

- Direct tank mounting or in-line
- 3 sizes with flows to 30 GPM
- 15 PSID by-pass standard
- Elements replaceable through cover
- Suitable for mineral/petroleum based oils

PRESSURE DROP



DIMENSIONS

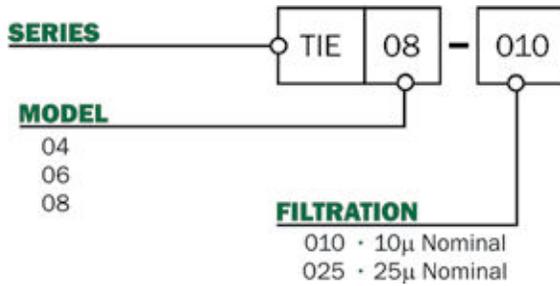


SPECIFICATIONS

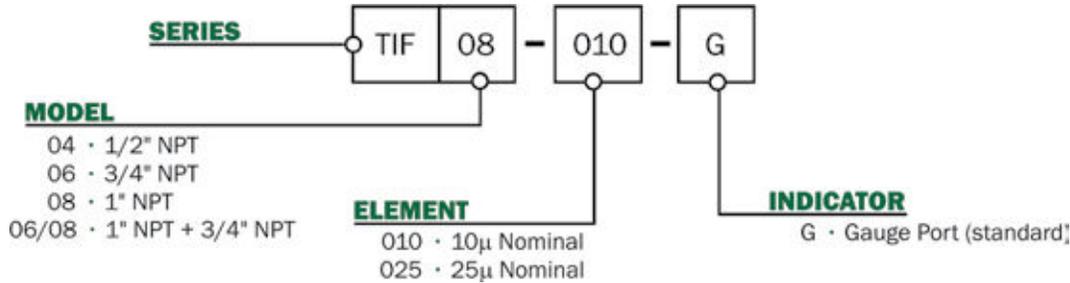
MODEL	DIMENSIONS												ELEMENT AREA (Sq. In.)	WT (lbs)
	PORT A (NPT)	PORT B (NPT)	B	C	D	E	PORT F (NPT)	H	I	L	N	P		
TIF04	1/2"	None	2.56"	2.56"	.51"	2.44"	1/2"	2.01"	.98"	.79"	.26"	3.54"	110	2
TIF06	3/4"	None	3.50"	2.56"	.51"	3.31"	3/4"	2.76"	1.65"	1.30"	.32"	4.49"	190	3.3
TIF08	1"	None	3.50"	4.25"	.51"	3.31"	3/4"	2.76"	1.65"	1.30"	.32"	4.49"	380	3.75
TIF06/08	1"	3/4"	3.50"	4.25"	.51"	3.31"	3/4"	2.76"	1.65"	1.30"	.32"	4.49"	380	4

TIF SERIES TANK MOUNTED RETURN LINE FILTER ASSEMBLY

FILTER ELEMENTS



ORDERING CODE



ACCESSORIES

GAUGES

P77-7003
0-60 PSI Gauge (Indication at 15 PSI)

P77-7004
0-60 PSI Gauge (Indication at 25 PSI)

P77-7021
0-30" Hg Vacuum Gauge

SWITCHES

P77-7006
Electrical (with 12") wire leads .
Set point (rising) 22 PSI.

P77-7005
Electrical (with DIN 43650)
3 pole connection - Pressure (22 PSI).

HIGH PRESSURE FILTERS

Series HP

Standard Features

- Bypass valve — to protect filter element, standard setting is 25 PSID (1.72 Bar). Other settings are available.
- 360° mechanical differential indicator — provides gradual warning of dirty element before bypass valve opens. Standard setting is 20 PSID (1.38 Bar) for full “red” indication. Other settings are available.
- Mounting holes for convenient installation.
- Drain plug.
- Self-aligning element for easy replacement.
- T-type construction for more efficient contaminant removal.
- Cycle tested at 3900 PSI (269 Bar) for 1,000,000 cycles.
- Filter retention:
 - 5 micron nominal, $B_5 = 2.2$
 - 10 micron nominal, $B_{10} = 2.1$
 - 3 micron absolute, $B_3 = 200$
 - 12 micron absolute, $B_{12} = 200$



OPTIONAL FEATURES

- 360° electro-mechanical differential indicator. Provides gradual warning and electrical signal before bypass opens.
- Differential taps for remote indicator location.

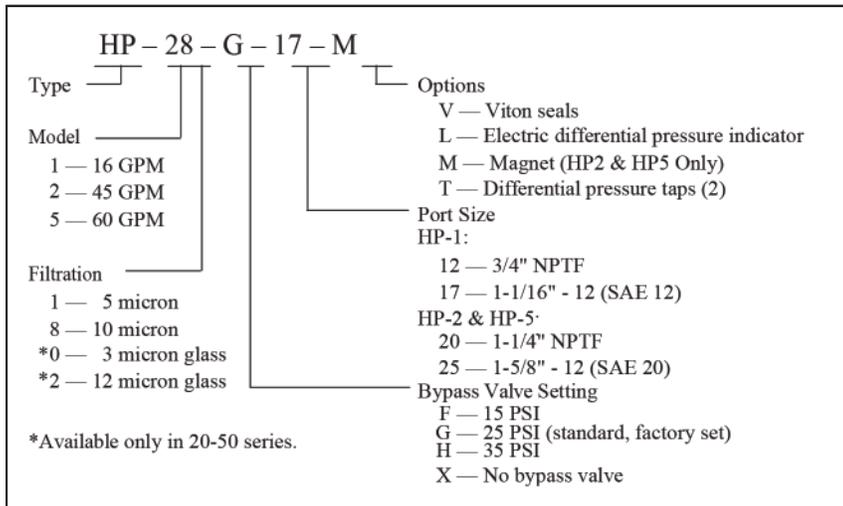
APPLICATIONS NPFT

The HP series is designed for high pressure hydraulic systems that require fine filtration. These filters come in three standard sizes with continuous working pressure of 3000 PSI (207 Bar) and flows to 60 GPM (227.1 L/min.).

Bypass Valve Setting

	PSID	BAR
F	15	1.03
G (Std.)	25	1.72
H	35	2.41

Ordering Information



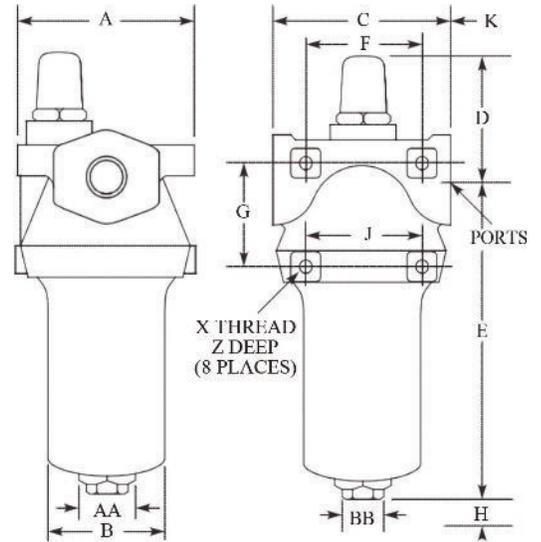
HIGH PRESSURE FILTERS

Series HP (continued)

Specifications

Model	HP1	HP2	HP5
Weight:	13 lbs. (5.8 kg)	30 lbs. (13.6 kg)	49 lbs. (22.2 kg)
Dim.: A	4.50" (114mm)	6.54" (166mm)	6.54" (166mm)
B	3.30" (84mm)	4.86" (123mm)	5.00" (127mm)
C	4.62" (117mm)	6.62" (168mm)	6.62" (168mm)
D	3.14" (80mm)	3.05" (78mm)	3.05" (78mm)
E	8.16" (207mm)	10.03" (255mm)	16.91" (430mm)
F	3.00" (76mm)	3.60" (91mm)	3.60" (91mm)
G	2.50" (64mm)	3.44" (87mm)	3.44" (87mm)
H	1.62" (41mm)	1.94" (49mm)	1.94" (49mm)
J	3.00" (76mm)	4.00" (102mm)	4.00" (102mm)
X	$\frac{3}{8}$ " - 16	$\frac{1}{2}$ " - 13	$\frac{1}{2}$ " - 13
Z	.75" (19mm)	.88" (27mm)	.88" (27mm)
AA	1.50" (38mm)	1.50" (38mm)	1.87" (48mm)
BB	.87" (22mm)	.87" (22mm)	1.25" (32mm)

Specifications subject to change without notice.

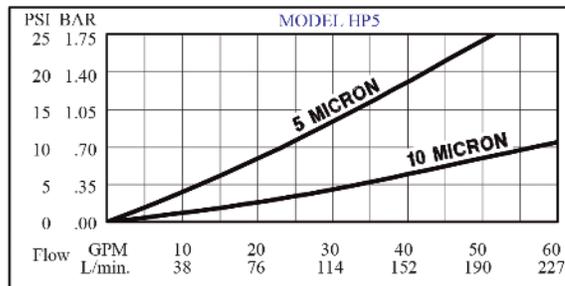
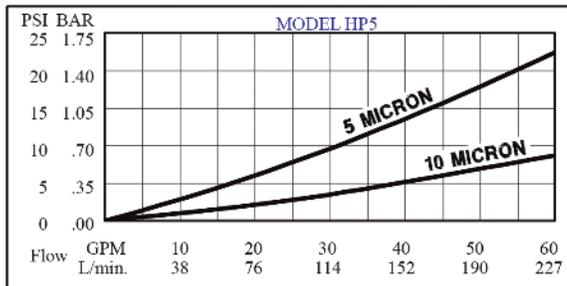
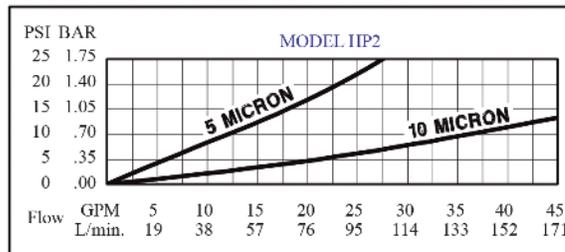
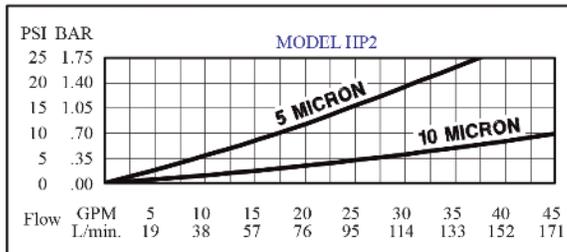
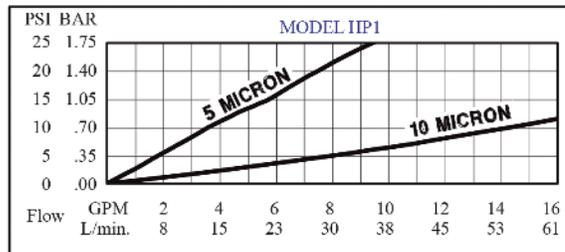
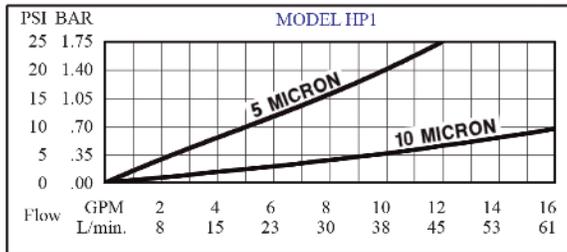


B — Diameter
 D — Add 1" (25.4mm) for Electric Indicator
 H — Clearance Allowance for Element Removal
 K — .12" (3mm) Shorter for Flange Mounting
 AA — Hex

AVERAGE PRESSURE DROP

160 SSU @ 100° F (39° C)

225 SSU @ 85° F (29.4° C)



HIGH PRESSURE FILTERS

Series B



FEATURES

- Built-in bypass valve.
- In-line type designed for 3000 PSI (207 BAR) operating pressure.
- Inexpensive.
- Low cost replacement parts.
- 40 nominal micron retention.
- 3 & 12 micron absolute.

APPLICATIONS

Designed to meet today's requirements for good protection of hydraulic components on machine tools, industrial equipment, construction machinery, farm equipment, or wherever close tolerance parts would be damaged by contaminated oil.

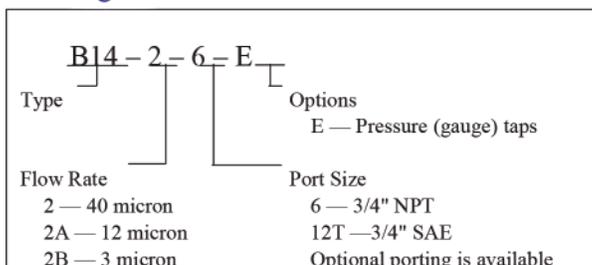
OPERATION

A large flow-area bypass valve, built into the head of the filter, cracks at 35 PSI (2.45 BAR), preventing damage to element if flow is restricted due to contamination. Mounting filter at pump discharge port protects all valves, cylinders, motors and rotary actuators.

Options

- Taps for Differential Pressure Indicator
- E.P.R. and Viton available
- Optional porting available

Ordering Information



SPECIFICATION

S Model B 14-2:

Capacity: 20 GPM (75.7 L/min.)
 Filtration: 40 micron nominal
 75 micron absolute
 $B_{40} = 96$
 Element Area: 26 in.² (167.7 cm²)
 Element Type: Ribbon lamination

Model B 14-2A:

Capacity: 20 GPM (75.7 L/min.)
 Filtration: 12 micron absolute
 5 gram holding capacity
 $B_{12} = 200$
 Element Area: 94 in.² (606.5 cm²)
 Element Type: Micro Glass

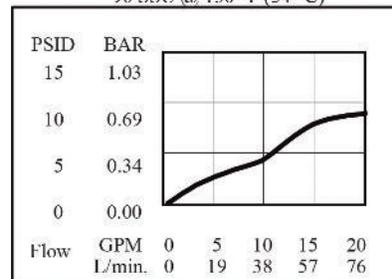
Model B 14-2B:

Capacity: 15 GPM (56.8 L/min.)
 Filtration: 3 micron absolute
 4.8 gram holding capacity
 $B_3 = 200$
 Element Area: 94 in.² (606.5 cm²)
 Element Type: Micro Glass

200 PSID Collapse

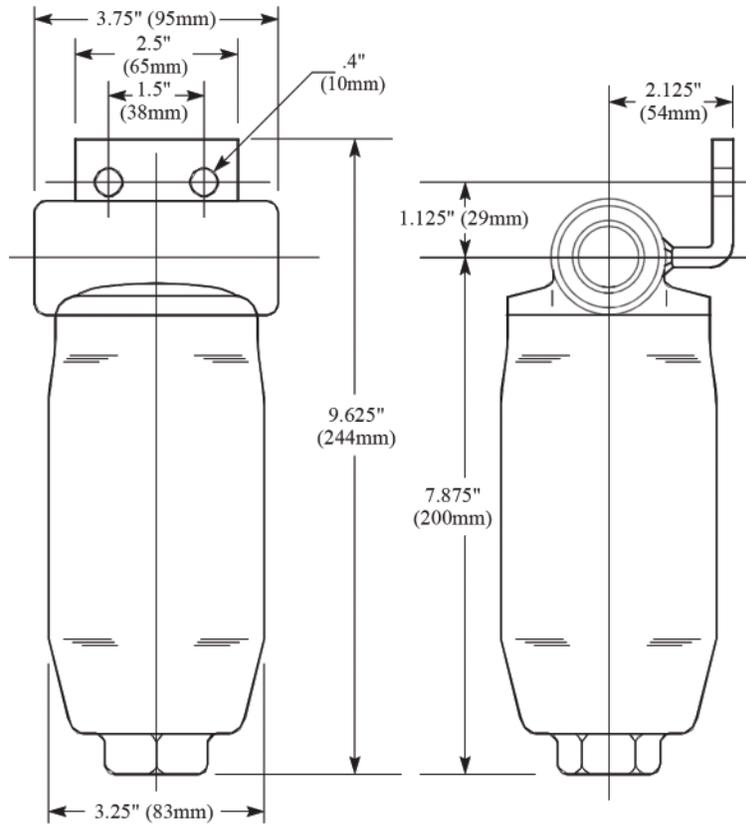
3000 PSID Collapse Available

40 MICRON
 AVERAGE PRESSURE DROP
 90 SSU @ 130° F (54° C)

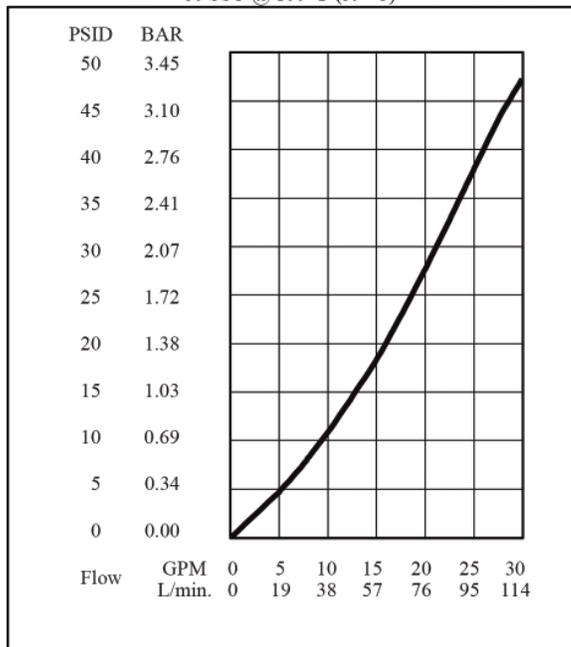


HIGH PRESSURE FILTERS

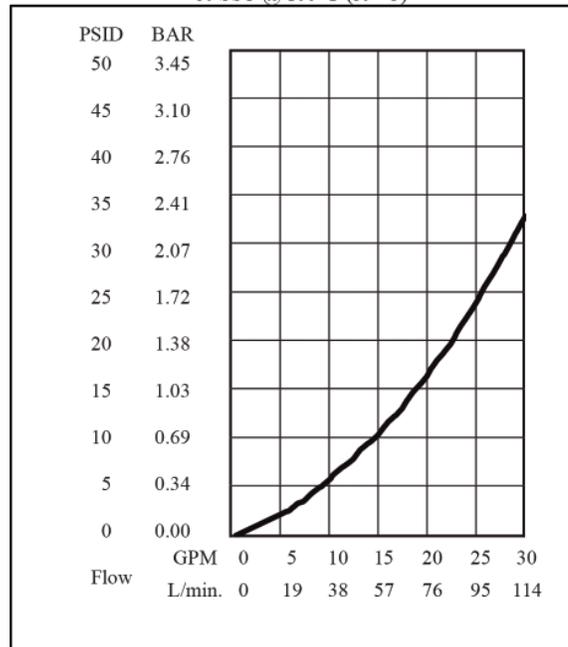
Series B (continued)



3 MICRON
AVERAGE PRESSURE DROP
80 SSU @ 100° F (39° C)



12 MICRON
AVERAGE PRESSURE DROP
80 SSU @ 100° F (39° C)



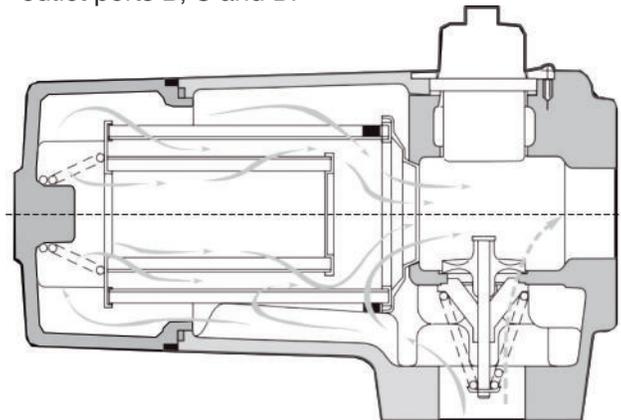
MULTI-PORT DUAL ELEMENT FILTERS

Series MS STANDARD FEATURES

- Choice of 3 outlet ports on 3 models simplifies difficult installation problems.
- Lightweight, rugged cast aluminum construction.
- Eight basic models covering a range from 10 GPM (38L/min.) through 150 GPM (569 L/min.).
- Re-usable, cleanable twin-life® dual element with up to 4 times more filtering area
- Bypass valve isolated in the filter head.
- Vacuum indicator alerts you to filter condition and impending bypass.

OPTIONAL FEATURES

- Viton “O” rings for special applications.
- Any combination of NPTF or SAE flange for outlet ports B, C and D.



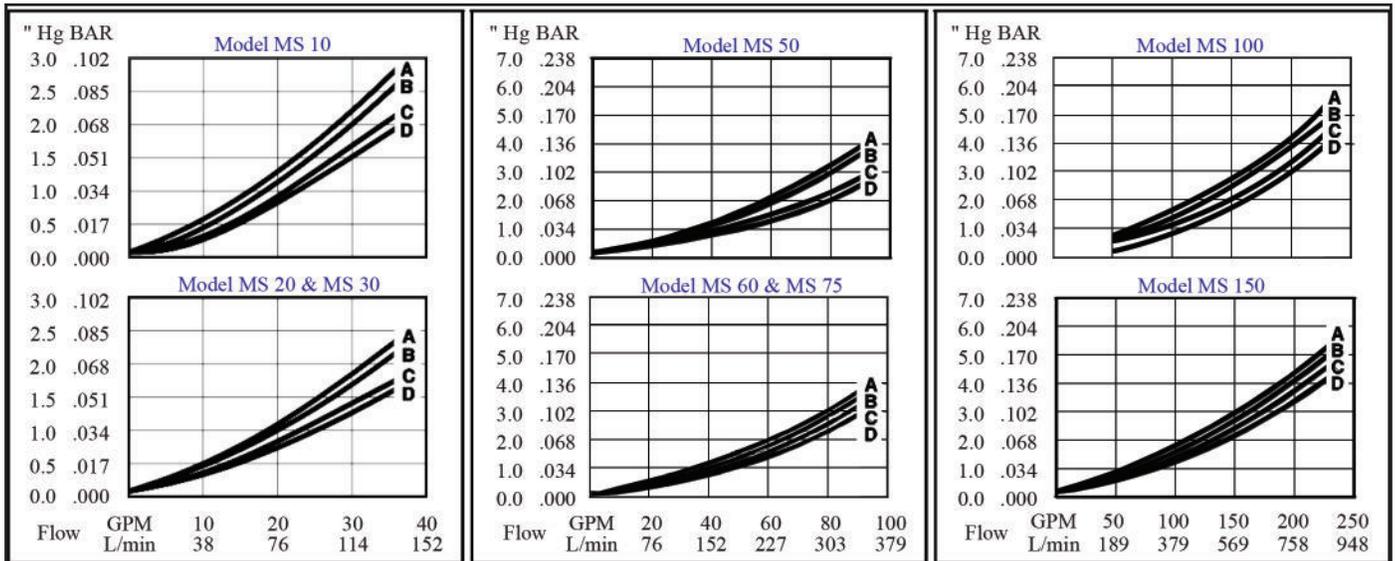
OPERATION

Hydraulic fluid flows from the reservoir into the inlet port, continues through the low delta P element and through the outlet port. When the element becomes contaminated, your system is protected against possible wash-off of collected contaminant. Unlike other systems where the bypass flow is forced over the dirt-clogged element, the multi-port filter features a unique bypass valve which is self-contained and isolated in the filter head, and does not depend on the mechanical movement of the sludge covered element. Bypassing fluid flows from the inlet port directly to the outlet port, completely ignoring the dirty element and eliminating the possibility of dumping dirt downstream.

Ordering Information

MS - 50 - F - 5 - B - B - 32 - V	
Type	Options
Flow Rate	M — Lock-type indicator (ML360)
10 — 10 GPM	V — Viton seals
20 — 20 GPM	Port Size
30 — 30 GPM	16 — 1"
50 — 50 GPM	20 — 1-1/4"
60 — 60 GPM	24 — 1-1/2"
75 — 75 GPM	32 — 2"
100 — 100 GPM	40 — 2-1/2"
150 — 150 GPM	48 — 3"
Port Type	56 — 3-1/2"
F — NPTF	Outlet Port Location
G — Flange, machining only	Port B (standard)
Filtration	Port C (optional)
2 — 40 micron (special order)	Port D (optional)
3 — 74 micron	Bypass Setting
5 — 150 micron	B — 3 PSI
7 — 262 micron (special order)	C — 5 PSI

MULTI-PORT DUAL ELEMENT FILTERS (continued)

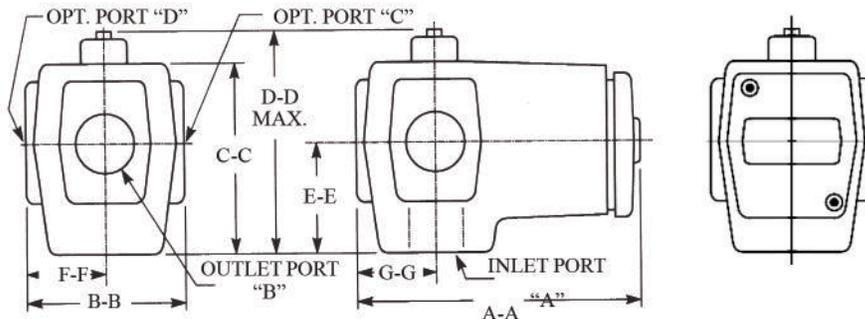


AVERAGE PRESSURE DROP WITH 225 SSU OIL @ 70° F (21.0° C) SP. GR. 0.876
 A = 40 MICRON, B = 74 MICRON, C = 150 MICRON, D = 262 MICRON

Specifications

Model Series	Rated Flow GPM (L/min.)	Pipe Velocity Ft./sec. M/sec.	NPTF		SAE Flange Size	Element Area In. ² (Cm ²)	Unit Wt. Lbs. (Kgs.)	Dimensions — In. (mm)						
			Port A	Port B				AA	BB	CC	DD	EE	FF	GG
MS 10	5-10 (19-38)	1.9-3.8 (.58-1.16)	1-1/2"	1"	1"	130 (839)	10-1/4 (4.65)	11.00 (279)	4.29 (125)	5.65 (144)	6.50 (165)	3.34 (85)	2.46 (62)	2.18 (55)
MS 20	10-20 (38-76)	2.2-4.3 (.67-1.31)	1-1/2"	1-1/2"	1-1/2"	230 (1484)	10-1/2 (4.76)	11.00 (279)	4.29 (125)	5.65 (144)	6.50 (165)	3.34 (85)	2.46 (62)	2.18 (55)
MS 30	20-30 (76-114)	3.3-4.8 (1.01-1.46)	1-1/2"	1-1/2"	1-1/2"	260 (1677)	10-3/4 (4.87)	11.00 (279)	4.29 (125)	5.65 (144)	6.50 (165)	3.34 (85)	2.46 (62)	2.18 (55)
MS 50	30-50 (114-189)	2.9-4.8 (.88-1.46)	2"	2"	2-1/2"	370 (2387)	15-1/2 (6.91)	12.55 (319)	5.86 (149)	7.15 (182)	8.00 (203)	4.30 (109)	2.93 (74)	2.56 (65)
MS 60	40-60 (152-227)	2.7-4.1 (.82-1.25)	2-1/2"	2-1/2"	2-1/2"	450 (2903)	15-1/2 (7.03)	12.55 (319)	5.86 (149)	7.15 (182)	8.00 (203)	4.30 (109)	2.93 (74)	2.56 (65)
MS 75	50-75 (189-284)	3.4-5.0 (1.04-1.52)	2-1/2"	2-1/2"	2-1/2"	540 (3484)	15-3/4 (7.14)	12.55 (319)	5.86 (149)	7.15 (182)	8.00 (203)	4.30 (109)	2.93 (74)	2.56 (65)
MS 100	75-100 (284-379)	3.3-4.3 (1.01-1.31)	3"	3"	3-1/2"	720 (4645)	30 (13.61)	15.22 (386)	8.56 (217)	9.95 (253)	10.75 (273)	5.75 (146)	4.28 (109)	3.40 (86)
MS 150	100-150 (379-569)	3.3-4.9 (1.01-1.49)	3-1/2"	3-1/2"	3-1/2"	1000 (6452)	30-1/4 (13.72)	15.22 (386)	8.56 (217)	9.95 (253)	10.75 (273)	5.75 (146)	4.28 (109)	3.40 (86)

Specifications subject to change without notice.



Bypass Valve Setting

	PSID	BAR
B	3	.21
C	5	.34

SC • SE • ST SERIES STRAINERS INTERNAL MOUNTED

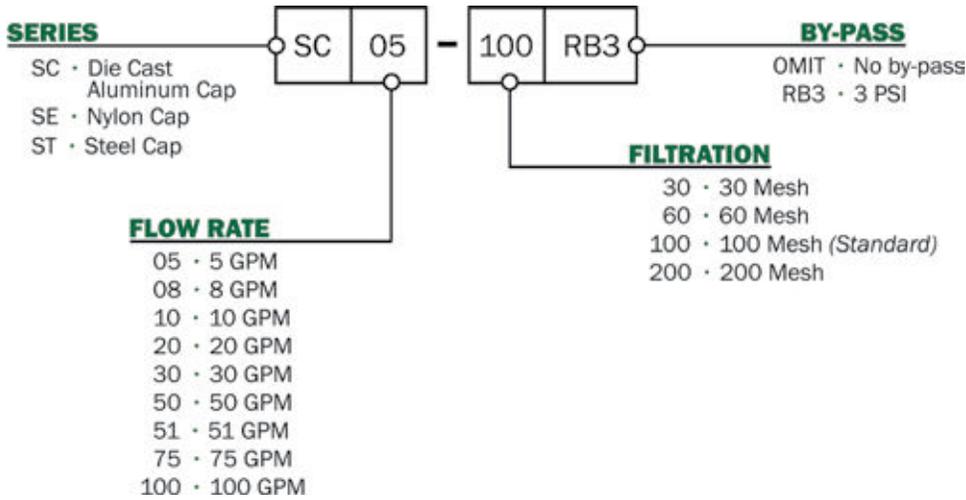
SC Series: Die Cast Aluminum Nut Cap SE Series: Nylon Nut Cap ST Series: Steel Nut Cap



FEATURES

- Used in fluid reservoirs or sumps
- Flows to 100 GPM (378 LPM)
- 1/2" to 3" NPT
- Stainless steel pleated media. 100 mesh standard
30, 60, or 200 mesh optional
- Temperature to 212° F (100° C)
- Compatible with petroleum and mineral based fluids

ORDERING CODE



FLOW RATE

SC	SE	ST	GPM
SC05	SE05	ST05	5
SC08	SE08	ST08	8
SC10	SE10	ST10	10
SC20	SE20	ST20	20
SC30	SE30	ST30	30
SC50	SE50	ST50	50
SC51	SE51	ST51	50
SC75	SE75	ST75	75
SC100	SE100	ST100	100

For SE/ST Only

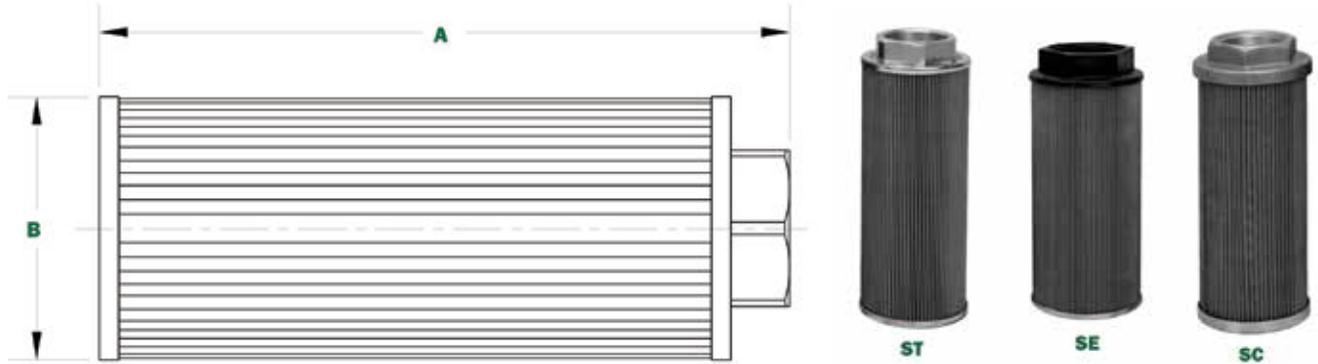
At 225 SSV oil @ 100° F through 100 mesh element.

FLOW VELOCITY	GPM
@ Rated Flow (Ft./Sec.)	@ 5 Ft./Sec. Flow Velocity
5.28	4.7
4.81	8.3
3.71	13.5
4.29	23.3
4.73	31.7
7.88	50
4.78	52.2
5.02	74.7
4.34	114.8

SC • SE • ST SERIES STRAINERS INTERNAL MOUNTED

SC Series: Die Cast Aluminum Nut Cap SE Series: Nylon Nut Cap ST Series: Steel Nut Cap

DIMENSIONS



SE/ST SPECIFICATIONS

MODEL NUMBER	SIZE (NPT)	GPM	SCREEN AREA (Sq. In.)	DIMENSIONS		WEIGHT (lbs)
				A	B	
ST05	1/2"	5	62	3.1"	2.6"	.5
SE08 / ST08	3/4"	8	68	3.5"	2.6"	.5
SE10 / ST10	1"	10	110	5.4"	2.6"	.7
SE20 / ST20	1-1/4"	20	162	6.9"	3.4"	1.0
SE30 / ST30	1-1/2"	30	225	8.1"	3.4"	1.2
SE50 / ST50	1-1/2"	50	340	10.0"	3.9"	1.4
SE51 / ST51	2"	50	340	10.0"	3.9"	1.8
SE75 / ST75	2-1/2"	75	400	10.1"	5.1"	2.3
SE100 / ST100	3"	100	500	11.8"	5.1"	3.0

SC SPECIFICATIONS

MODEL NUMBER	SIZE (NPT)	GPM	SCREEN AREA (Sq. In.)	DIMENSIONS		WEIGHT (lbs)
				A	B	
SC05-100	1/2"	5	35	4.1"	1.8"	.4
SC08-100	3/4"	8	63	4.3"	2.5"	.5
SC10-100	1"	10	84	5.5"	2.5"	.5
SC20-100	1-1/4"	20	144	5.5"	3.4"	.7
SC30-100	1-1/2"	30	180	6.6"	3.4"	1.0
SC50-100	1-1/2"	50	216	7.9"	3.4"	1.2
SC51-100	2"	50	315	10.2"	3.9"	1.8
SC75-100	2-1/2"	75	432	8.3"	5.9"	2.3
SC100-100	3"	100	570	10.7"	5.9"	3.0

SINGLE ELEMENT SUMP FILTERS

Series SUS & SRS

FEATURES

- 1" through 3" NPTF port sizes
- 5 GPM (19 L/min.) through 150 GPM (568 L/min.) flow ratings
- 60 mesh (262 micron) retention or 100 mesh (150 micron) retention or optional 200 mesh (74 micron)
- Extra large filtering area
- With or without integral bypass valve
- With or without magnet
- Cleanable



OPERATION

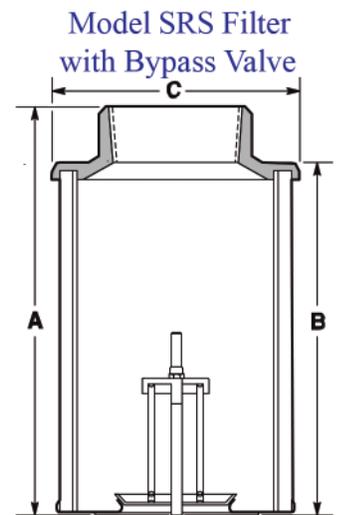
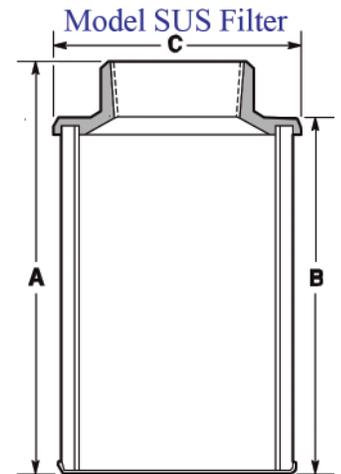
Pump draws fluid through filtering medium and contaminants are trapped upon the outer surface. Protection against pump cavitation is given by the SRS filter with built-in bypass valve. Three factory-set pressure settings are available for your bypass requirements.

APPLICATIONS

SUS/SRS bonded sump filters for use with hydraulic oils, coolants, lubricants and fire resistant fluids. A wide range of equipment applications include agricultural, construction, industrial, material handling, chemical, petroleum, machine tool, processing and automated machinery.

Specifications

Flow		Port Size (NPTF)	Dimensions		
GPM	L/min.		A	B	C
5	19	1"	4.06" (103mm)	3.12" (79mm)	3.19" (81mm)
10	38	1"	5.06" (128mm)	4.12" (105mm)	3.19" (81mm)
20	76	1 1/4"	6.06" (154mm)	5.12" (130mm)	3.19" (81mm)
30	114	1 1/2"	6.06" (154mm)	5.12" (130mm)	4.31" (110mm)
50	189	2"	7.06" (179mm)	6.12" (156mm)	4.31" (110mm)
75	284	2 1/2"	7.06" (179mm)	6.25" (159mm)	5.00" (127mm)
100	379	3"	8.31" (211mm)	7.25" (184mm)	5.00" (127mm)
150	568	3"	10.31" (262mm)	9.25" (235mm)	5.00" (127mm)



Bypass Valve Setting

(SR Only)

	PSID	
	PSID	BAR
A	1°	.10
B (Std.)	3	.21
C	5	.34

Ordering Information

SRS - 150 - 5 - SF - 48 - B	
Type	Bypass Setting (SRS Only)
SUS — Without bypass	A — 1-1/2 PSI
SRS — With bypass	B — 3 PSI (standard)
	C — 5 PSI
Flow Rate	Port Size
05 — 5 GPM	16 — 1"
10 — 10 GPM	20 — 1-1/4"
20 — 20 GPM	24 — 1-1/2"
30 — 30 GPM	32 — 2"
50 — 50 GPM	40 — 2-1/2"
75 — 75 GPM	48 — 3"
100 — 100 GPM	
150 — 150 GPM	
Filtration	
3 — 74 micron, 200 mesh	
5 — 150 micron, 100 mesh	
7 — 262 micron, 60 mesh	

DUAL ELEMENT SUMP FILTERS

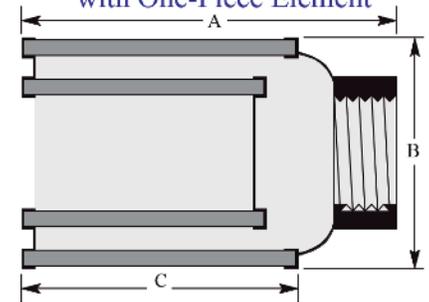
Series SU & SR

FEATURES

- Twin-life® dual element filter
- 1" through 3" NPTF port sizes
- 10 GPM (38 L/min.) through 150 GPM (568 L/min.) flow ratings
- 60 mesh (262 micron) retention or 100 mesh (150 micron) retention or optional 200 mesh (74 micron)
- Extra large filtering area
- With or without integral bypass valve
- With or without magnet



Model SU Filter
with One-Piece Element



APPLICATIONS

SU/SR bonded sump filters for use with hydraulic oils, coolants, lubricants and fire resistant fluids. A wide range of equipment applications include agricultural, construction, industrial, material handling, chemical, petroleum, machine tool, processing and automated machinery.

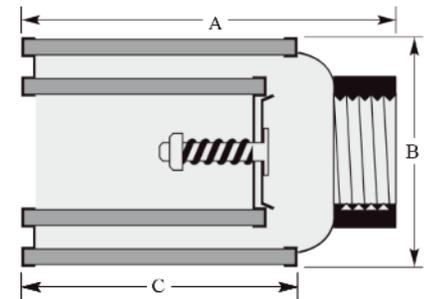
Specifications

Flow		Element Area		Port Size (NPTF)	Dimensions		
GPM	L/min.	In. ²	Cm ²		A	B	C
10	38	130	839	1" - 11-1/2	4.06" (103mm)	3.16" (80mm)	3.12" (79mm)
15	57	170	1097	1" - 11-1/2	5.06" (128mm)	3.16" (80mm)	4.12" (105mm)
20	76	230	1484	1-1/4" - 11-1/2	6.06" (154mm)	3.16" (80mm)	5.12" (130mm)
30	114	370	2387	1-1/2" - 11-1/2	6.06" (154mm)	4.30" (109mm)	5.15" (131mm)
50	189	450	2903	2" - 11-1/2	7.06" (179mm)	4.30" (109mm)	6.15" (156mm)
75	284	540	3484	2-1/2" - 8	7.06" (179mm)	5.00" (127mm)	6.20" (157mm)
100	379	720	4645	3" - 8	8.30" (211mm)	5.00" (127mm)	7.20" (183mm)
150	568	920	5935	3" - 8	10.30" (262mm)	5.00" (127mm)	9.20" (234mm)

Ordering Information

Type		SR - 95 - SF - 48 - B		Bypass Setting (SR Only)	
SU — Without bypass				A — 1-1/2 PSI	
SR — With bypass				C — 5 PSI	
Element Area				Port Size	
2	130 In. ²			16	1"
3	170 In. ²			20	1-1/4"
4	230 In. ²			24	1-1/2"
5	370 In. ²			32	2"
6	450 In. ²			40	2-1/2"
7	540 In. ²			48	3"
8	720 In. ²			Magnet Option	
9	920 In. ²			SI	Without magnet
Filtration				PI	With magnet
3	74 micron, 200 mesh				
5	150 micron, 100 mesh				
7	262 micron, 60 mesh				

Model SR Bypass Filter
with One-Piece Element



Bypass Valve Setting
(SR Only)

	PSID	BAR
A	1-1/2	.10
B	3	.21
C	5	.34

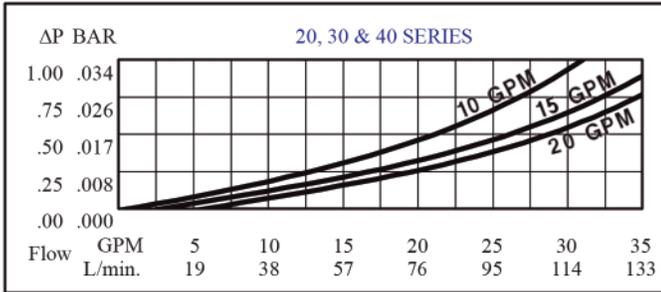
DUAL SUMP FILTERS

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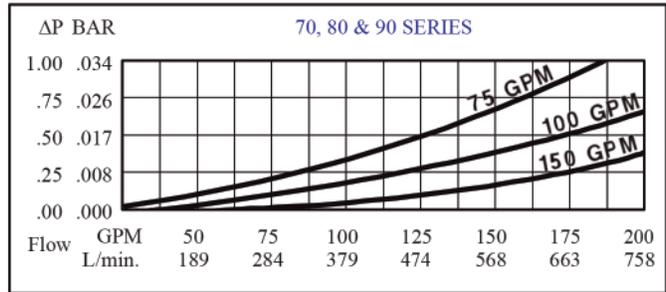
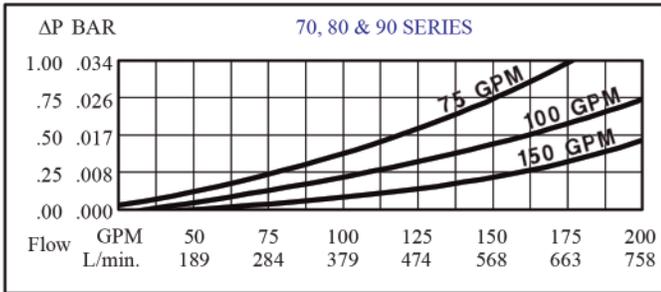
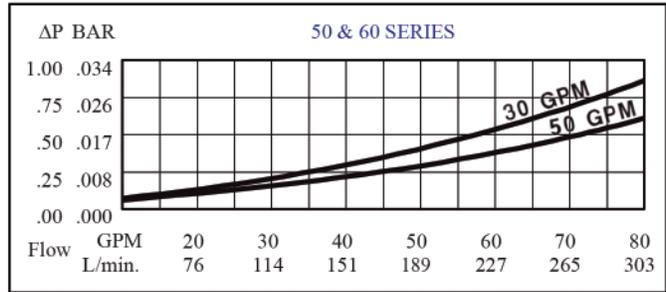
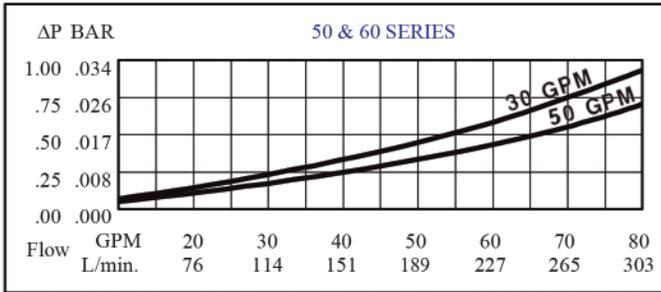
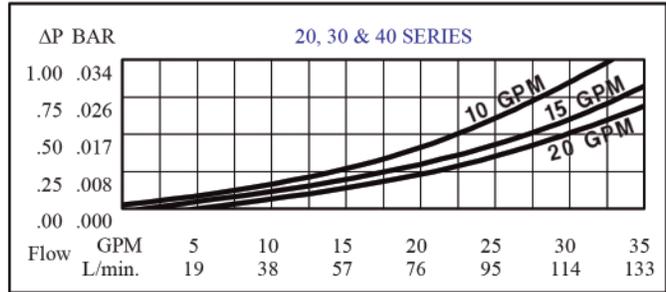
Pressure Differential/Flow Characteristics

Flow data shown below was taken from laboratory tests using petroleum-base hydraulic oil. Pressure differentials were measured at the filter outlet fitting.

150 MICRON FILTRATION (100 MESH) WITH 225 SSU OIL



262 MICRON FILTRATION (60 MESH) WITH 225 SSU OIL



ΔP is the pressure differential measured in inches of mercury (2" Hg = 1 PSI), 1" Hg = .034 BAR

MINI SUMP FILTERS

FEATURES

- Low cost and compact
- Cleanable wire cloth media.
- Flow rating to 10 GPM (38/L/min.) for all models except 202505, which is rased to 4 GPM (15 L/min.).

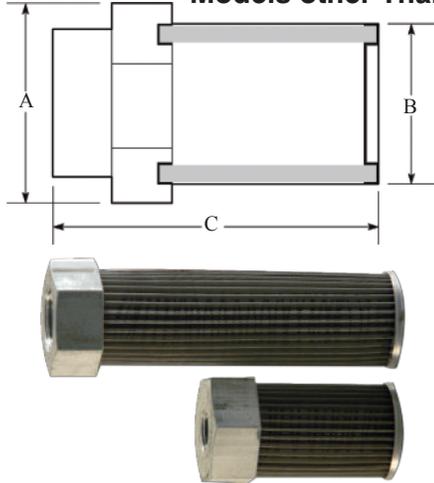
APPLICATIONS

Mini sump filters are designed for suction line filtration in fluid power, lubrication, fuel and related systems. Lengths and port sizes differ depending on dirt holding capacity and flow requirements.

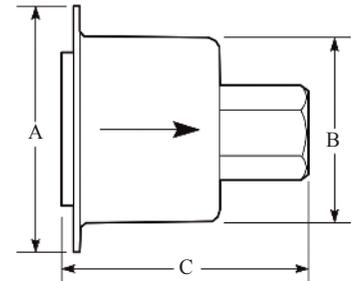
ENGINEERING DATA

Nominal Rating: 150 micron
 Wire Cloth: Stainless Steel
 Fitting and Cap: Aluminum
 Construction: Epoxy Bond
 Operating Temperature: 275F (135C) maximum
 Service: Most hydraulic fluids

Models other Than 202505



Model 202505



Specifications

Model	Port Size	Element Area		Dimensions		
		In"	Cm"	A	B	C
201540	3/8" NPT	35	256	1 7/8" (48mm)	1 1/2" (38mm)	3 3/32" (48mm)
210496	1/2" NPT	35	256	1 7/8" (48mm)	1 1/2" (38mm)	3 3/32" (48mm)
210502	3/4" NPT	35	256	1 7/8" (48mm)	1 1/2" (38mm)	3 3/32" (48mm)
210326	3/4" NPT	68	439	1 7/8" (48mm)	1 1/2" (38mm)	5 5/8" (143mm)
201549	1" NPT	68	439	1 7/8" (48mm)	1 1/2" (38mm)	6" (152mm)
202505	1/4" NPTF	12	77	1.83" (46mm)	1.42" (36mm)	2.00" (51mm)
202320	1/2" NPT	68	439	1.62" (48mm)	1-1/2" (38mm)	5.59"

Specifications subject to change without notice

MINI LINE FILTERS

SPECIFICATION

S Element Area:

M-12-P = 12 in." (77cm)

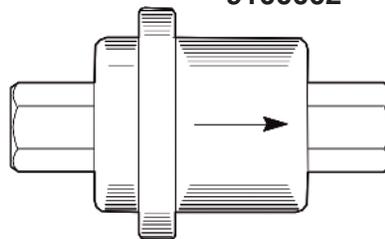
Filtration: 150 micron

Maximum Pressure: 50 PSI (3.35 Bar)

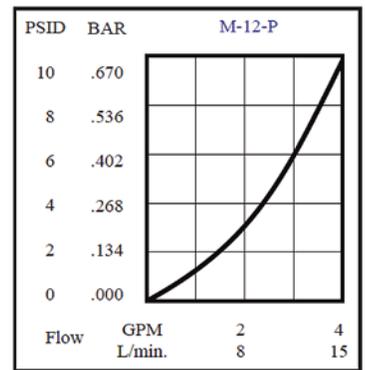
Fittings: 1/4" NPTF



MODEL M 12 P
9100002



PRESSURE DROP
WITH 225 SSU OIL @ 85° F (32° C)



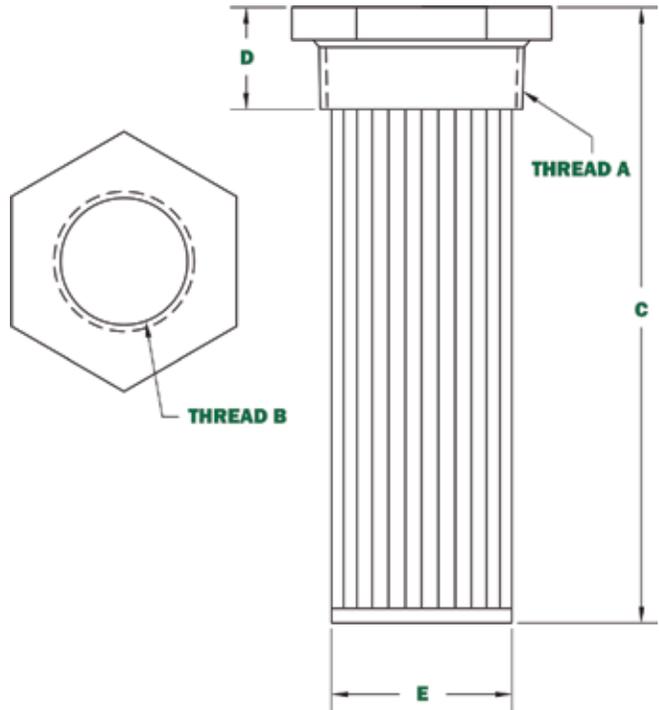
TMS SERIES TANK STRAINER NPT THREAD STYLE



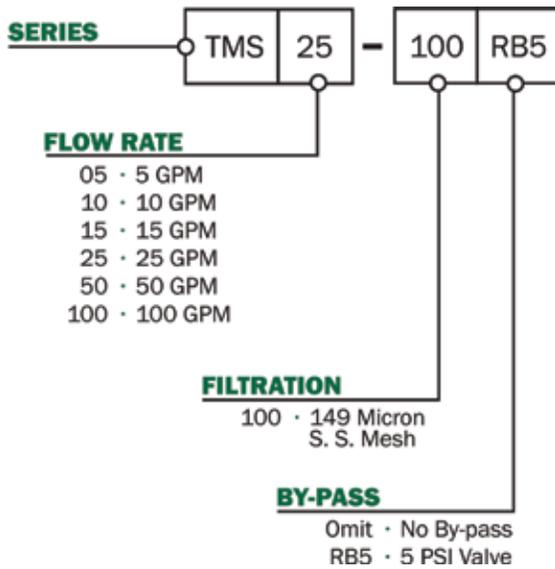
FEATURES

- Tank mounted strainer
- 5 PSI by-pass available
- Flows to 100 GPM (378 LPM)
- 100 Mesh (149 Micron) standard
- Weld flanges available (See TWF Series)

DIMENSIONS



ORDERING CODE



SPECIFICATIONS

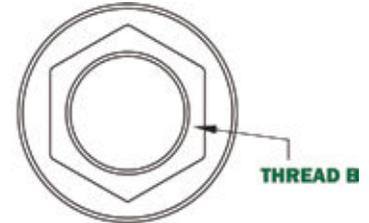
MODEL NUMBER	GPM	SCREEN AREA (Sq. In.)	THD A	THD B	HEX SIZE	DIMENSIONS		
						C	D	E
TMS-05	5	35	1" NPT	1/2" NPT	1.43	5.38"	1.10"	1.18"
TMS-10	10	64	1-1/4" NPT	3/4" NPT	1.81	7.50"	1.20"	1.14"
TMS-15	15	86	1-1/2" NPT	1" NPT	2.00	8.25"	1.30"	1.65"
TMS-25	25	125	2" NPT	1-1/4" NPT	2.55	10.00"	1.30"	2.12"
TMS-50	50	260	3" NPT	2" NPT	3.30	10.25"	1.70"	3.03"
TMS-100	100	315	4" NPT	3" NPT	5.00	11.30"	1.80"	3.78"

TMSS SERIES TANK STRAINER O-RING THREAD STYLE

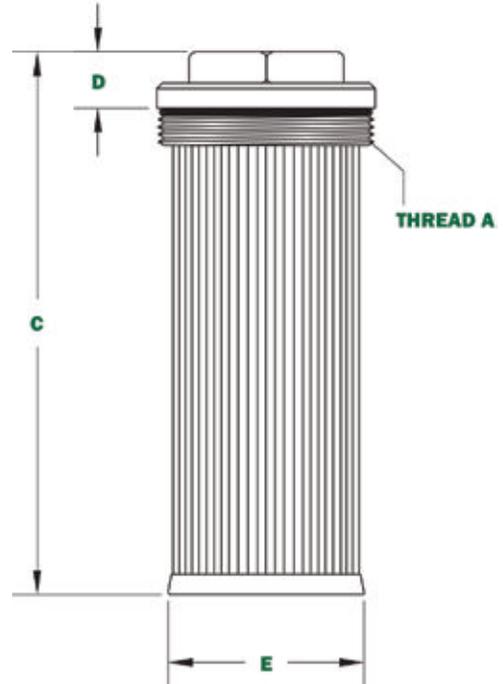


FEATURES

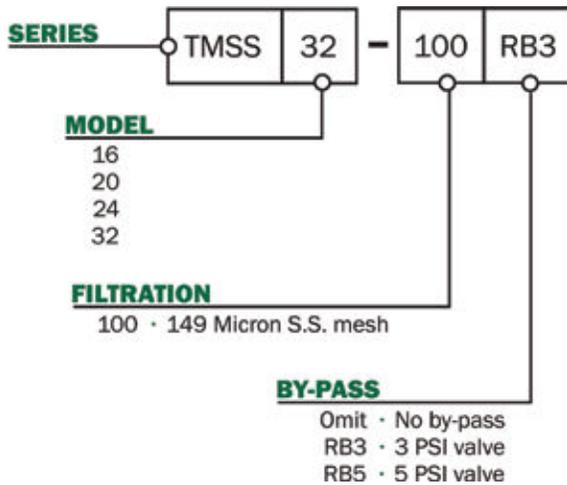
- SAE O-Ring threads for leak free installation
- 4 sizes available (SAE 16, 20, 24, 32)
- Buna O-Ring Standard
- Weld flanges available (see TWF Series)
- 100 Mesh (149 Micron) standard
- 3 or 5 PSI by-pass available
- To 40 GPM



DIMENSIONS



ORDERING CODE



SPECIFICATIONS

MODEL NUMBER	PER SAEJ514		HEX SIZE	GPM	SCREEN AREA (Sq. In.)	DIMENSIONS		
	THD A	THD B				C	D	E
TMSS-16	2-1/2"-12	1-5/16"-12	2.13	9	90	9.00"	.75"	2.24"
TMSS-20	2-1/2"-12	1-5/8"-12	2.13	14	90	9.00"	.75"	2.24"
TMSS-24	3-3/8"-12	1-7/8"-12	2.50	21	230	8.80"	.90"	3.22"
TMSS-32	3-3/8"-12	2-1/2"-12	3.00	39	230	9.30"	.98"	3.22"

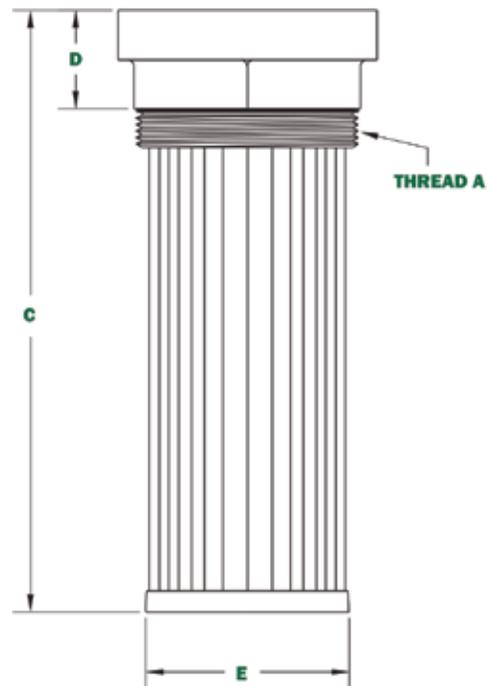
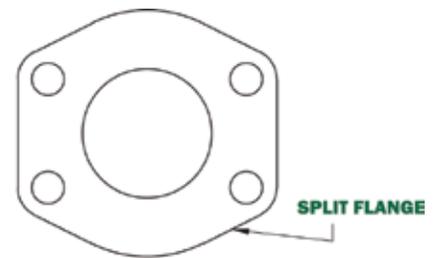
TMSFA SERIES TANK STRAINER SAE SPLIT FLANGE



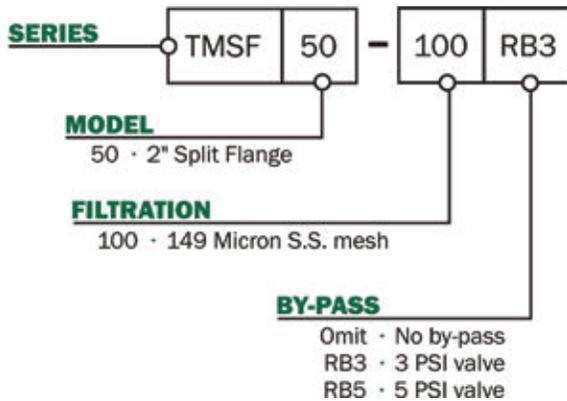
FEATURES

- Leak free O-Ring threads
- Split flange mounting
- Buna O-Ring Seal
- Weld flange available (see TWF Series - TWF 48)
- 100 Mesh (149 Micron) standard
- By-pass available (3 or 5 PSI)
- 50 GPM

DIMENSIONS



ORDERING CODE



SPECIFICATIONS

MODEL	THD A	SPLIT FLANGE	HEX SIZE	GPM	SCREEN AREA (Sq. In.)	DIMENSIONS		
						C	D	E
TMSF-50	3-3/8"-12	2" SAE Code 61	3.65	50	230	9.37"	1.52"	3.14"

Contact factory for availability of other configurations.

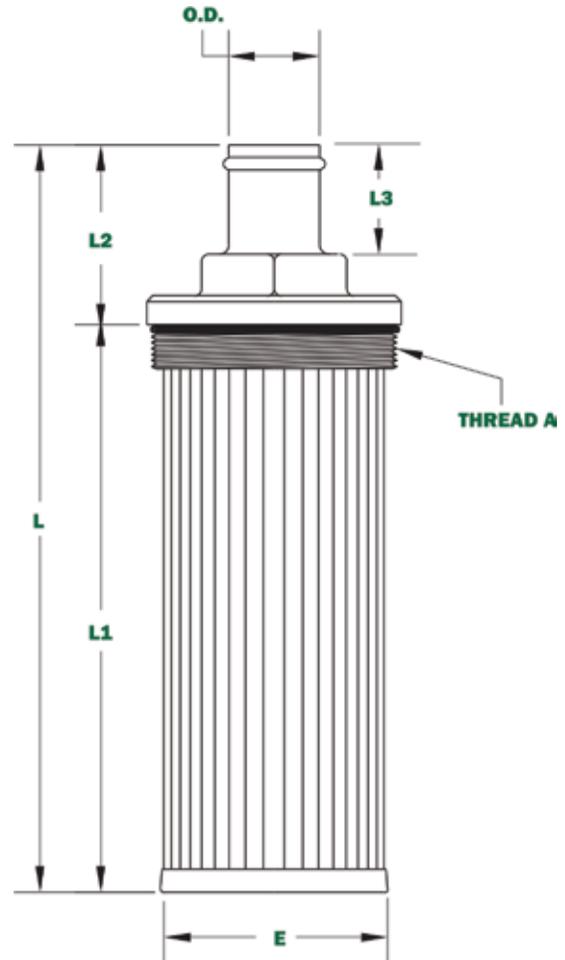
TMSB SERIES HOSE BARB TANK STRAINER



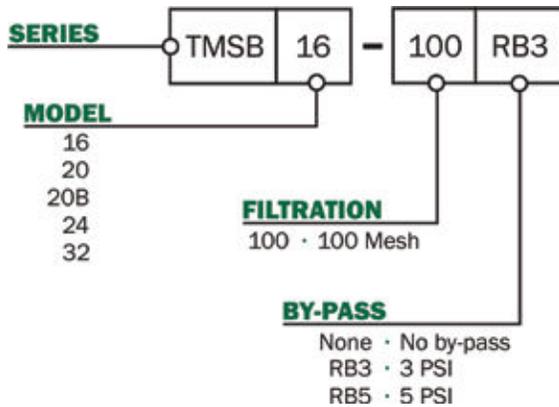
FEATURES

- Hose barb to O-Ring installation
- 5 sizes available
- 100 Mesh S.S wire cloth standard
- Optional by-pass (3, 5 PSI)
- Includes Buna O-Ring
- Weld flanges available (see TWF Series)

DIMENSIONS



ORDERING CODE



SPECIFICATIONS

MODEL NUMBER	THREAD A	O.D.	HEX SIZE	DIMENSIONS				
				L	L1	L2	L3	E
TMSB16	1-7/8"-12	1.00"	1.25"	9.30"	7.30"	2.00"	1.25"	1.65"
TMSB20	2-1/2"-12	1.25"	1.50"	10.00"	8.00"	2.00"	1.25"	2.12"
TMSB20B	3-3/8"-12	1.25"	2.00"	10.30"	7.82"	2.48"	1.50"	3.22"
TMSB24	3-3/8"-12	1.50"	2.00"	10.30"	7.82"	2.48"	1.50"	3.22"
TMSB32	3-3/8"-12	2.00"	2.50"	10.80"	7.84"	2.97"	2.00"	3.22"

Weld flanges available (see TWF Series).

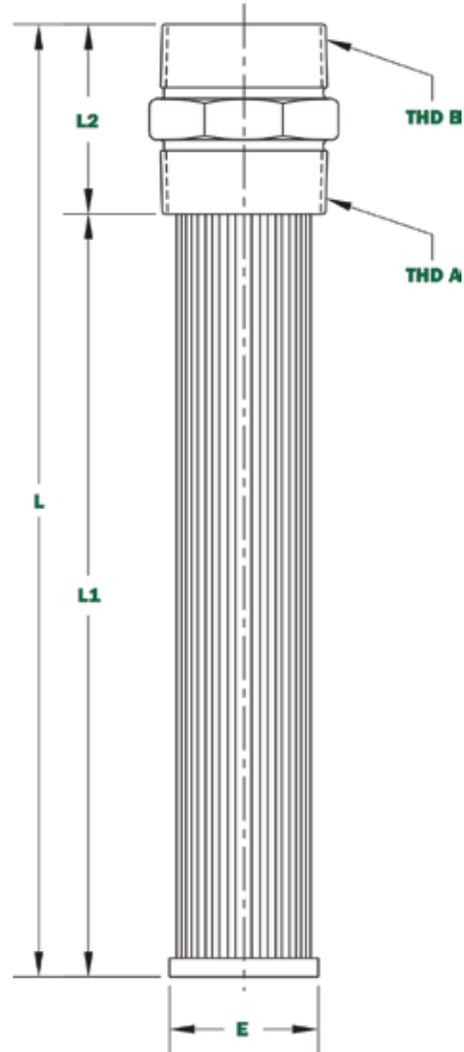
TMP SERIES TANK STRAINER



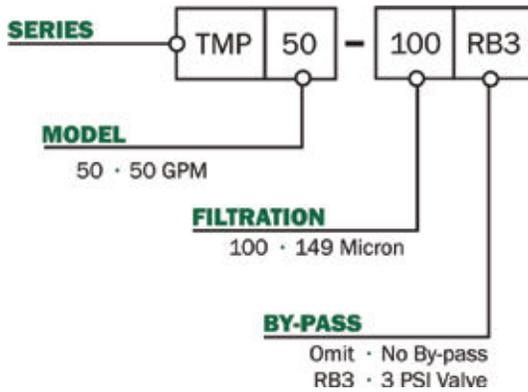
FEATURES

- Cast iron bushing
- 100 Mesh (149 Micron) wire mesh
- By-pass valve (3 PSI) optional
- Weld flanges available (See TWF series)

DIMENSIONS



ORDERING CODE



SPECIFICATIONS

MODEL	THD A	THD B	HEX SIZE	DIMENSIONS			
				L	L1	L2	E
TMP-50	2" NPT	2" NPT	2.75"	13.50"	10.75"	2.70"	2.12"

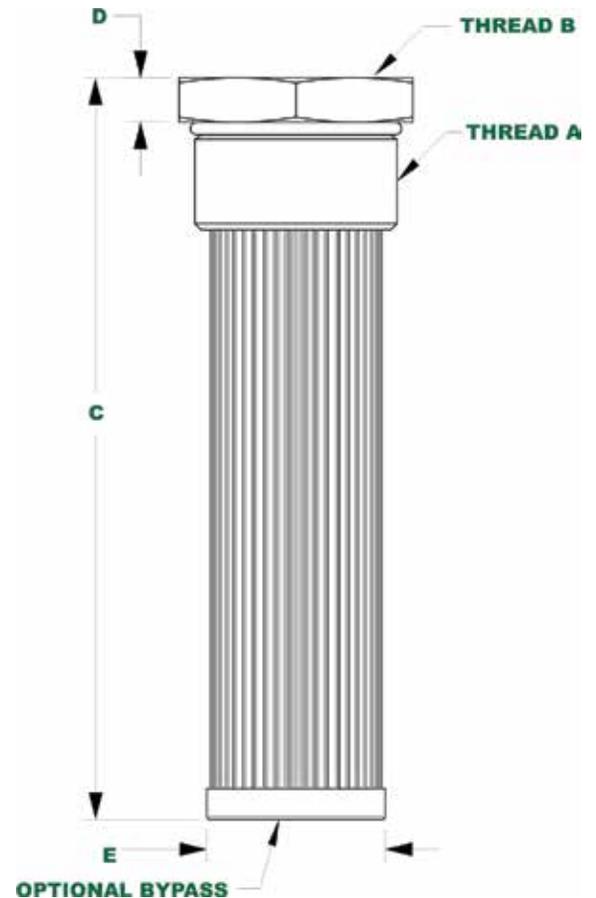
TMST SERIES TANK STRAINER O-RING THREAD STYLE



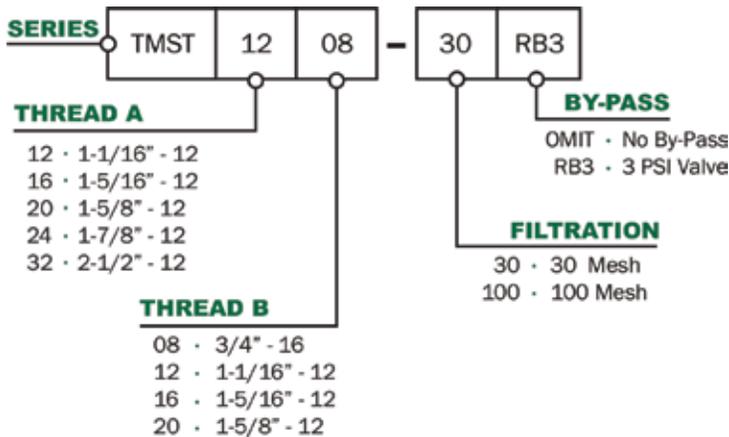
FEATURES

- SAE O-Ring Threads for Leak Free Installation
- 5 Sizes Available (SAE 12, 16, 20, 24 or 32)
- Buna O-Ring Standard
- Zinc Plated Steel Nut Cap, End Cap & Center Tube
- Weld Flanges Available (See TWF Series)
- Stainless Steel 100 Mesh (149m) Standard
- 30, 60 or 200 Mesh Optional
- 3 PSI By-Pass Available
- Flows Rated at 5 FPS Through Customer Fitting
- Compatible with Petroleum and Mineral Based Fluids
- Temperature to 212° F

DIMENSIONS



ORDERING CODE



SPECIFICATIONS

MODEL	SAE J1926/3	SAE J1926/1	DIMENSIONS				GPM	MESH AREA (Sq. In.)
	A	B	C	D	E	HEX		
TMST1208	1-1/16"-12	3/4"-16	5.25"	0.412"	0.94"	1.25"	1.9	48
TMST1608	1-5/16"-12	3/4"-16	5.25"	0.412"	1.12"	1.50"	1.9	48
TMST2012	1-5/8"-12	1-1/16"-12	7.88"	0.406"	1.42"	1.81"	4.6	78
TMST2416	1-7/8"-12	1-5/16"-12	8.30"	0.410"	1.65"	2.17"	8.4	85
TMST2420	1-7/8"-12	1-5/8"-12	8.30"	0.410"	1.65"	2.17"	13.8	90
TMST3220	2-1/2"-12	1-5/8"-12	7.99"	0.295"	2.13"	2.76"	14.4	98

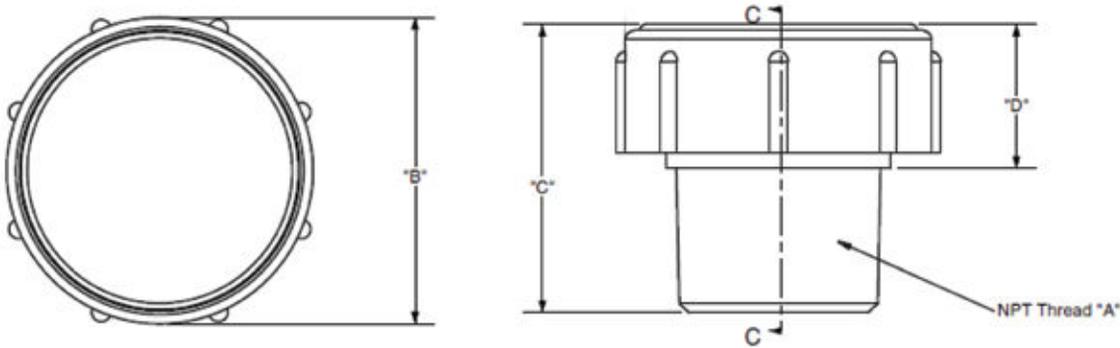
ABP PLASTIC BREATHERS



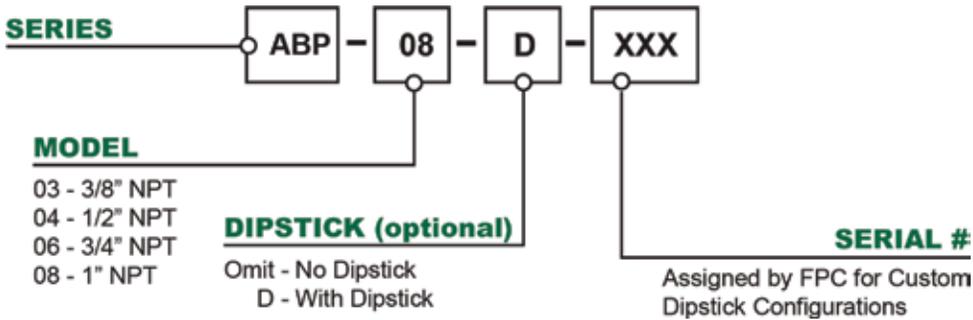
FEATURES

- Air flow to 20 CFM (ABP-08)
- ABS Plastic
- Compatible with petroleum and mineral based fluids
- 3/8", 1/2", 3/4", and 1" NPT
- 40 Micron Filtration
- Dipstick optional
- Weld flanges available (See TWF series)

DIMENSIONS



ORDERING CODE



SPECIFICATIONS

MODEL NUMBER	THREAD: A NPT	DIMENSIONS			
		B (INCH)	B (MM)	C	D
ABP-03	3/8"	1.36"	34.54	1.31"	0.73"
ABP-04	1/2"	1.57"	39.88	1.56"	0.76"
ABP-06	3/4"	1.77"	44.96	1.60"	0.78"
ABP-08	1"	1.97"	50.04	1.93"	0.95"

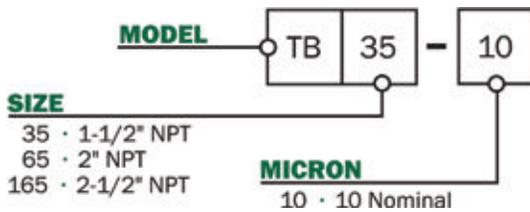
TB SERIES HIGH VOLUME BREATHER THREADED STYLE



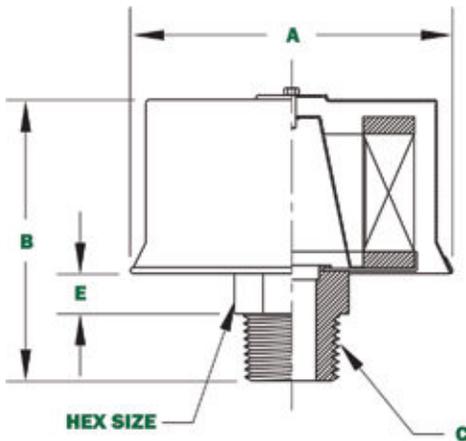
FEATURES

- 10 Micron filtration standard
- Air flow to 165 CFM
- Replaceable element
- Temperature to 225° F (107° C)
- Compatible with petroleum and mineral based fluids
- Weld flanges available (See TWF series)

DIMENSIONS



ORDERING CODE



SPECIFICATIONS

MODEL NUMBER	CAPACITY (CFM)	MICRON	DIMENSIONS				HEX SIZE	WEIGHT (lbs)
			A	B	C (NPT)	E		
TB35	35	10	4.33"	5.43"	1-1/2"	.47"	2.17	.88
TB65	65	10	5.71"	7.48"	2"	.59"	2.56	1.21
TB165	165	10	7.28"	7.48"	2-1/2"	.59"	3.15	2.87

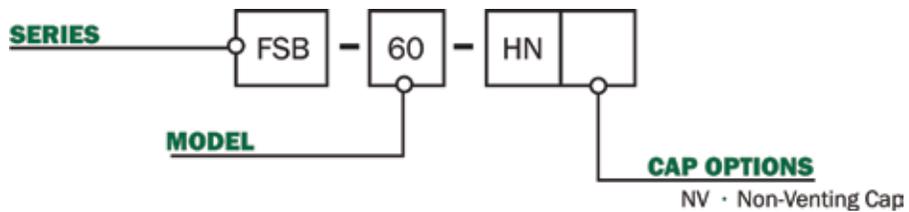
FSB SERIES FILLER BREATHER HIGH NECK



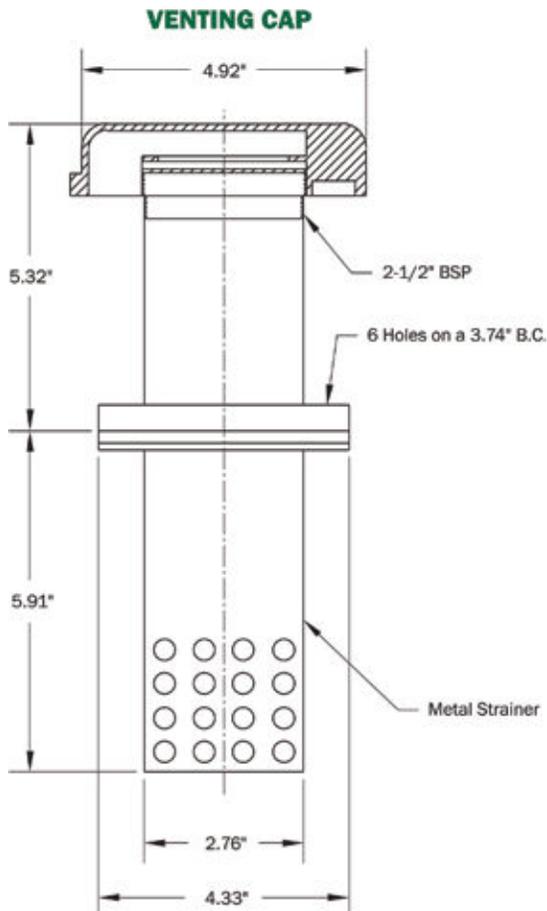
FEATURES

- Sturdy aluminum die-cast construction
- 240 Mesh nylon filter disk
- For rugged applications
- Perforated steel basket with steel mesh liner
- Gasket and mounting hardware supplied
- Rated to 60 CFM
- Suitable for gen sets / mobile application

ORDERING CODE



DIMENSIONS



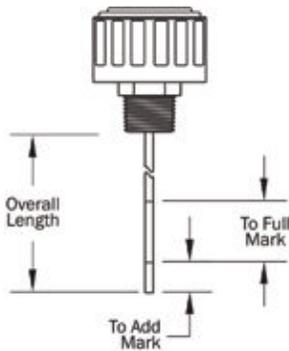
FBS SERIES FILLER BREATHER THREADED STYLE



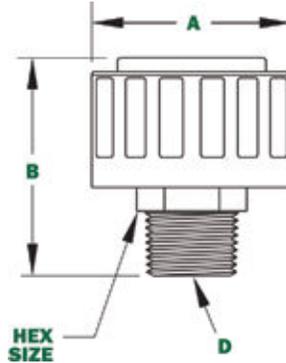
FEATURES

- Air flow 40 CFM
- Chrome plated steel cap
- Compatible with petroleum and mineral based fluids
- Temperature to 225° F (107° C)
- 1/4", 3/8", 1/2", 3/4", and 1" NPT
- Standard and pressurized models
- 10 Micron or 40 Micron
- Dipstick optional

DIPSTICK

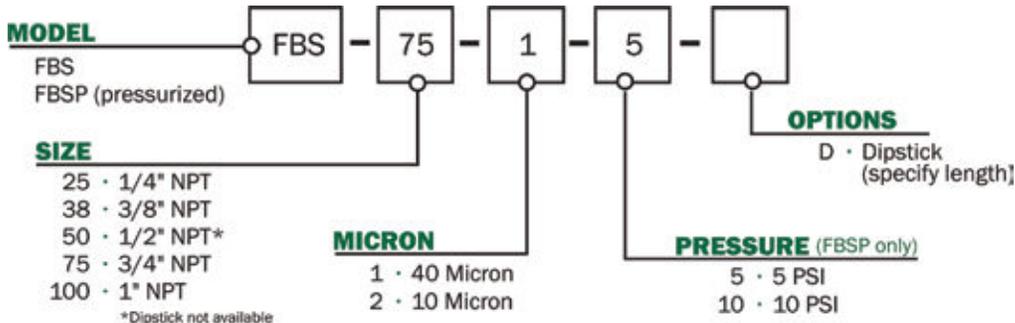


DIMENSIONS



Please supply drawing with lengths shown above.
Dipsticks will be marked full and add.

ORDERING CODE



SPECIFICATIONS

PART NUMBER	MICRON RATING	DISPLACEMENT (GPM)	AIRFLOW (CFM)	DIMENSIONS			
				A	B	HEX SIZE	D (NPT)
FBS-75/100	10	105	14	3.1"	3.0"	1.18" / 1.61"	3/4" / 1"
FBS-75/100	40	190	25	3.1"	3.0"	1.18" / 1.61"	3/4" / 1"
FBS-50	10	24	3	1.8"	2.5"	1.0"	1/2"
FBS-50	40	40	5	1.8"	2.5"	1.0"	1/2"
FBS-25/38	10	24	3	1.8"	2.5"	1.0"	1/4" / 3/8"
FBS-25/38	40	40	5	1.8"	2.5"	1.0"	1/4" / 3/8"

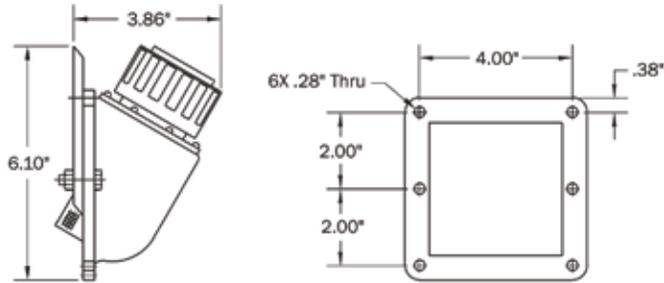
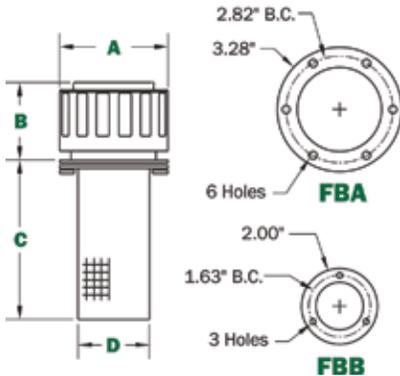
FBA SERIES FILLER BREATHER BAYONET STYLE



FEATURES

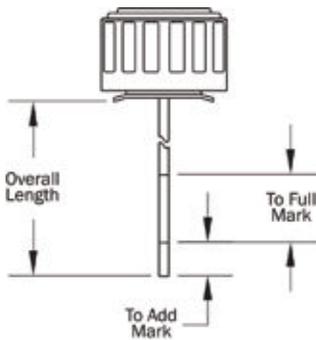
- Chrome plated steel cap
- Air flow to 30 CFM
- Compatible with petroleum and mineral based fluids
- 30 mesh basket
- Standard and pressurized models
- 10 Micron or 40 Micron
- 3", 6", and 8" steel baskets
- Options include: Locking tabs, dipstick, buna gaskets and side mount

DIMENSIONS



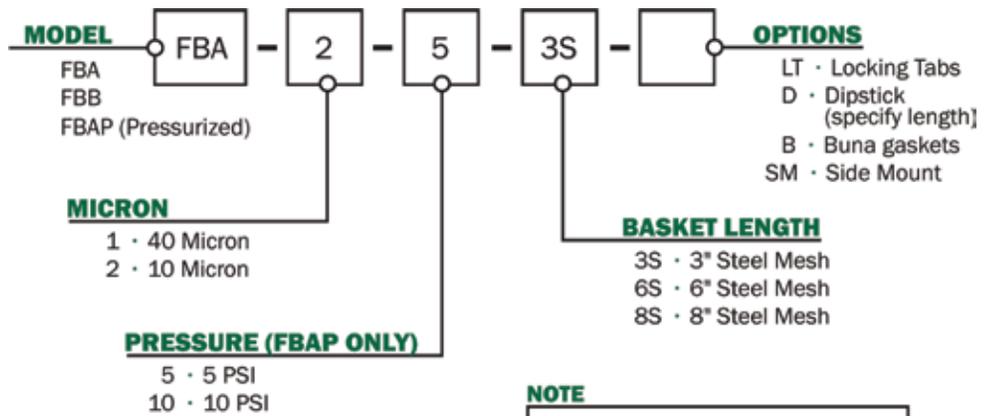
**SIDE MOUNT
(FBA ONLY)**

DIPSTICK



Dipsticks can be fitted to the FBA and FBAP series. Please supply drawing with lengths shown above. Dipsticks will be marked full and add.

ORDERING CODE



NOTE

FBB only available with 2-1/2" steel basket. Not available pressurized.

SPECIFICATIONS

PART NUMBER	MICRON RATING	DISPLACEMENT (GPM)	AIRFLOW (CFM)	DIMENSIONS				SCREWS
				A	B	C	D	
FBA-1	40	192	30	3.0"	2.4"	3.6"	1.9"	(6) 10-32
FBA-2	10	115	25	3.0"	2.4"	3.6"	1.9"	(6) 10-32
FBB-1	40	40	5	1.8"	1.9"	2.6"	1.1"	(3) 10-32
FBB-2	10	24	5	1.8"	1.9"	2.6"	1.1"	(3) 10-32

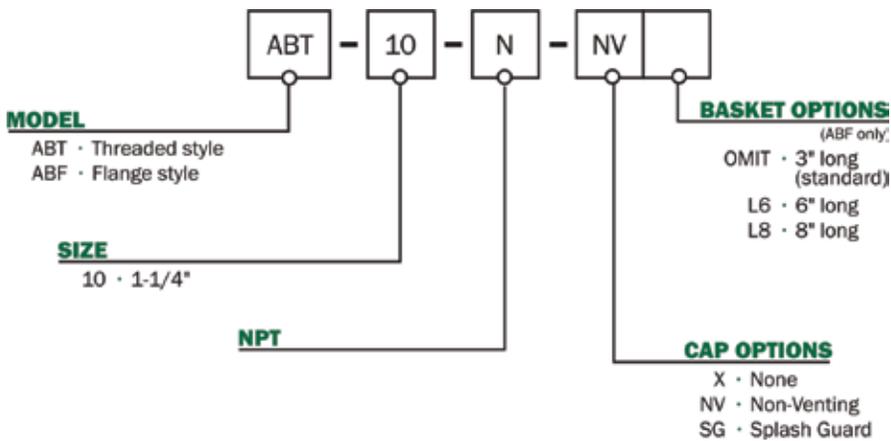
ABT/ABF SERIES FILLER BREATHER HEAVY DUTY



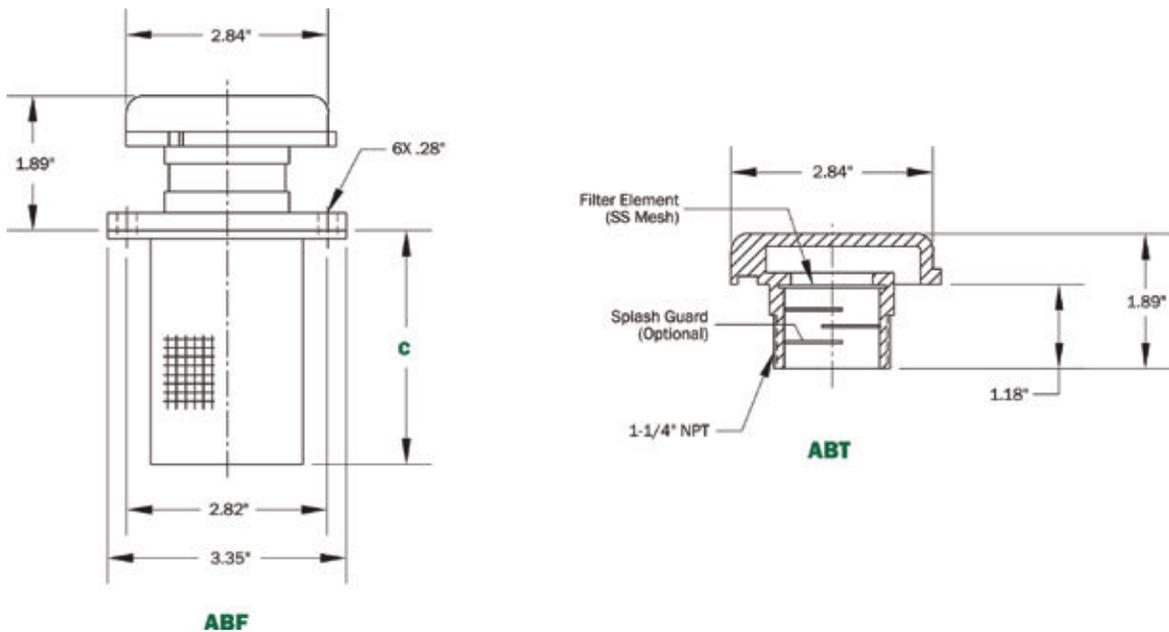
FEATURES

- Sturdy aluminum die cast construction
- 100 Mesh (149µm) filtration
- For rugged applications
- Steel mesh basket
- Gasket and mounting hardware supplied
- Optional splash guard to minimize spillage

ORDERING CODE



DIMENSIONS



DESICCANT BREATHERS

Desiccant breathers are one of the most cost effective methods of protection for contamination control. Breathers are an integral piece to any fluid lubrication, hydraulic system, or storage tank. Breathers provide protection from moisture and particulate contamination in harsh operating environments. The best operations & maintenance practices focus on preventing contaminants from entering their equipment, rather than trying to remove contaminants after damage has already occurred.

As most equipment and machines are designed to “breathe,” protecting the inflow of ambient air is vital for protection and reliable operation. Contaminants and moisture will enter equipment as temperature, pressure, and fluid level changes occur. To prevent contaminants and moisture from entering your equipment, a desiccant breather should be used.

Maradyne desiccant breathers use several layers of high efficiency filters to capture particulates, moisture, and maintain ISO cleanliness codes. Maradyne’s unique ZEOLITE desiccant blend allows for extremely low relative humidity levels be maintained. Not only do our breathers prevent contaminants and moisture from entering your equipment, but many test results show that Maradyne breathers will actually liberate water from within the fluids or chemicals being stored in the tank simply by having a breather fitted on top of the tank or reservoir. This dynamic is vital to maintain maximum life and performance of the lubricant or chemical being stored.



Maradyne MDB-300



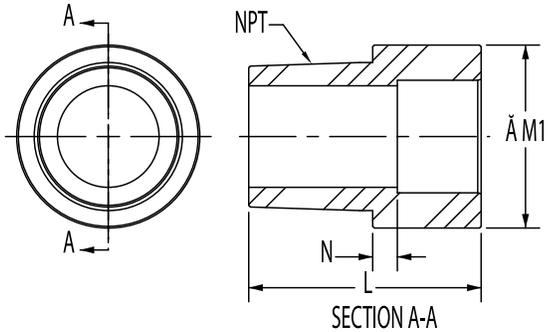
Maradyne MDB-150

DESICCANT BREATHERS

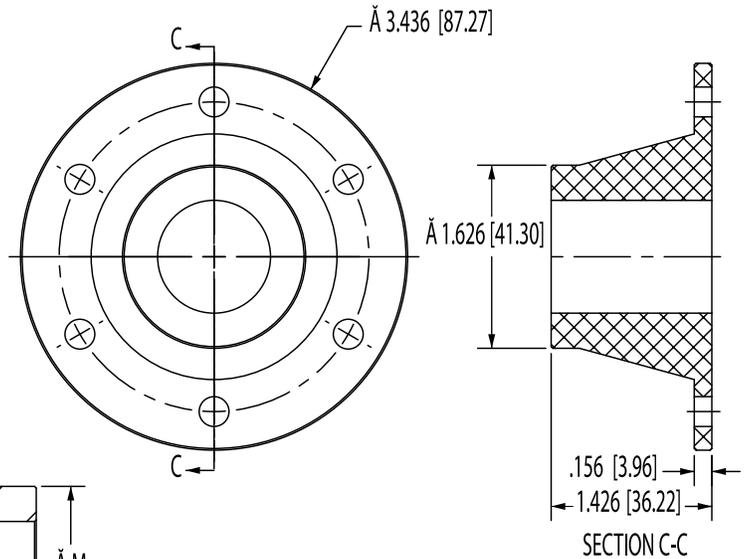
Model	Thread Size	Height	Top Cap Diameter	Filter	Flow Rate	Applications
MDB-150	1" Friction Fit*	4.5"	5"	3 Micron	Up to 10 SCFM	Protection of fluid systems by preventing entry of moisture and particulate. 55 gallon drums, storage totes, small gearboxes, etc.
MDB-300	1" Friction Fit*	9.5"	5"	3 Micron	Up to 10 SCFM	Protection of fluid systems by preventing entry of moisture and particulate. Large containers, storage totes, gearboxes, transformers, hydraulic reservoirs

DESICCANT BREATHER ADAPTERS

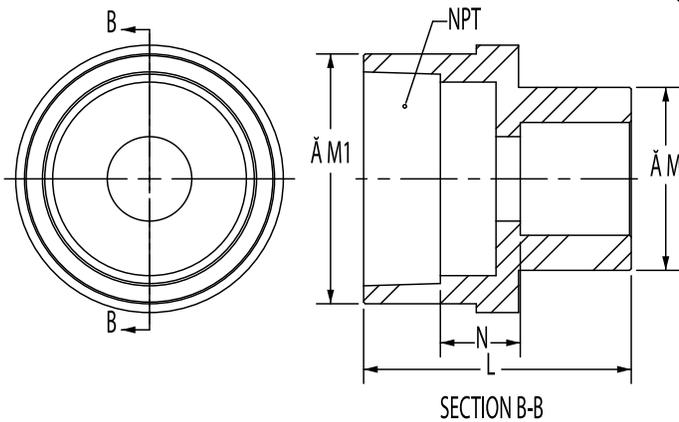
Slip fit – Threaded - Male



Slip fit – Flanged



Slip fit – Threaded – Female



DESICCANT BREATHER ADAPTERS

SLIP FIT – THREADED – MALE						
Model	Breather Connection	Equipment Connection	M (inches)	M1 (inches)	N (inches)	L (inches)

MDA-001	1" slip	1" MNPT		1-5/8	7/32	2-1/16
MDA-002	1" slip	1/2" MNPT		1-5/8	17/32	2-9/32
MDA003	1" slip	3/4" MNPT		1-21/32	3/16	1-15/16

SLIP FIT – THREADED – FEMALE						
Model	Breather Connection	Equipment Connection	M (inches)	M1 (inches)	N (inches)	L (inches)

MDA-009	1" slip	1-1/2" FNPT	1-5/8	2-7/32	1/4	2-3/8
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SLIP FIT FLANGE			
Model	Breather Connection	Equipment Connection	Material

MDA-016	1" slip	Flange Adapter with 6 holes spaced 60° apart, Standard ANSI 6-Hole pattern	High Impact ABS
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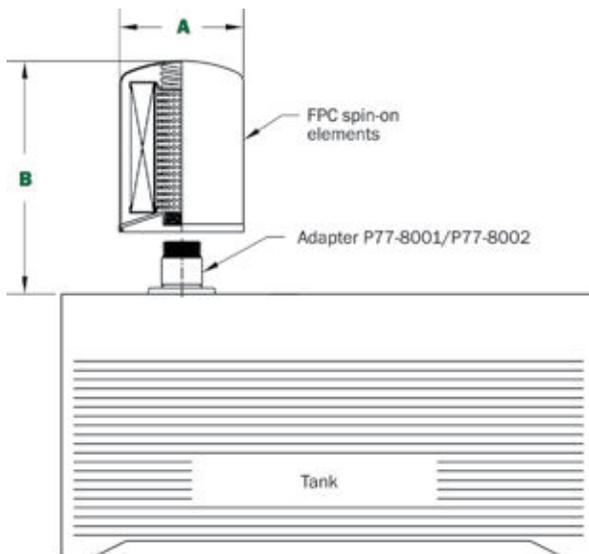
P77-8001/8002 RESERVOIR AIR BREATHER ADAPTERS



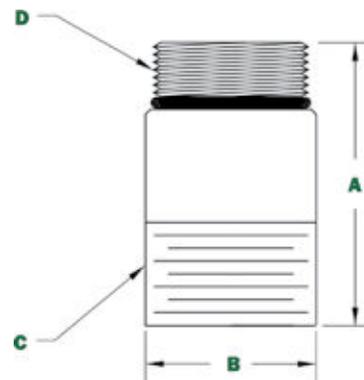
FEATURES

- Zinc plated steel adapters
- Excellent alternative to standard filler-breathers
- Ideally suited for heavily contaminated environments
- Weld flanges available (see TWF Series)

APPLICATION



DIMENSIONS



SPECIFICATIONS

PART NUMBER	DIMENSIONS				SPIN-ON ELEMENTS	REPLACEMENT O-RING
	A	B	C	D		
P77-8001	2.60"	1.00" Nominal	3/4" NPT	1" - 12 UN	FPE30-03N FPE30-10N	2 - 020
P77-8002	3.25"	1.65" Nominal	1-1/4" NPT	1-1/2" - 16 UN	FPE50-03N FPE50-10N	2 - 126

P77-8099/8100 RESERVOIR AIR BREATHER ADAPTERS



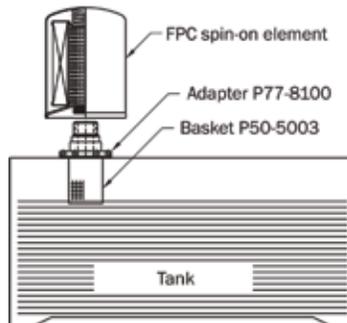
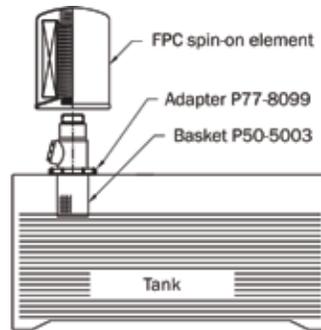
P77-8100

P77-8099

FEATURES

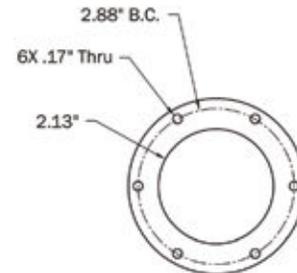
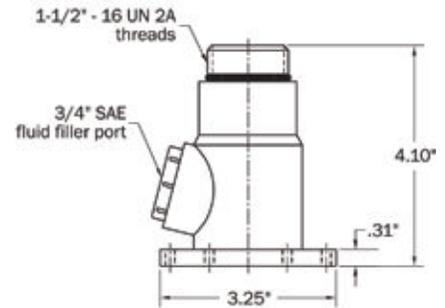
- Cast aluminum construction
- Gasket seal between base and reservoir
- -8 SAE ORB fluid filler port on P77-8099
- Includes seals and mounting hardware

APPLICATIONS

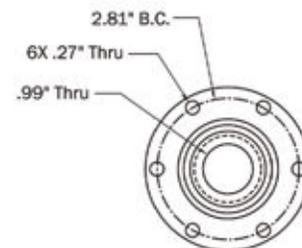
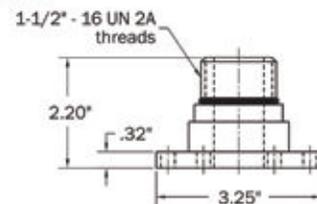


DIMENSIONS

P77-8099



P77-8100



ELEMENTS OPTIONS

ELEMENT PART NUMBER	MICRON RATING	LENGTH X DIAMETER
FPE50-03N	3	6.33" X 5.00"
FPE50-10N	10	6.33" X 5.00"
FPE50-25N	25	6.33" X 5.00"

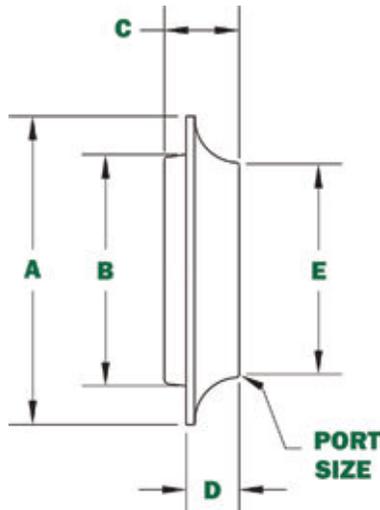
TWF SERIES SAE J1926/1 O-RING BOSS WELD FLANGES



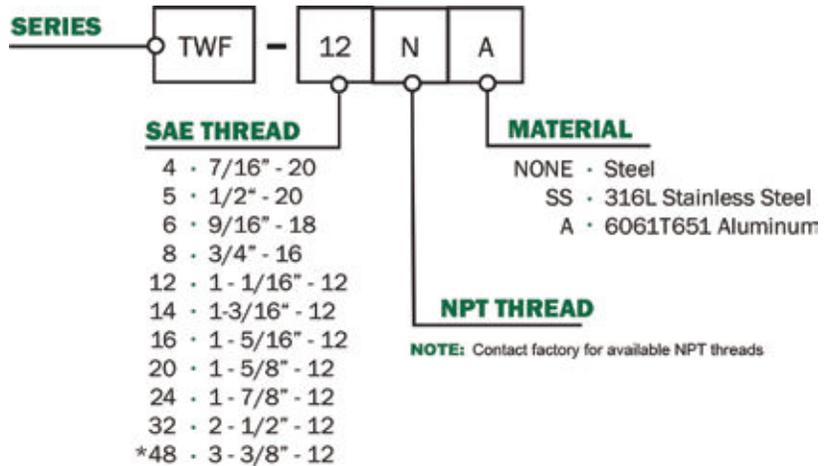
FEATURES

- Low Carbon Steel with a Maximum CE (Carbon Equivalent) of 0.45
- Optional: 6061-T651 Aluminum or 316L Stainless Steel
- Design Offers Minimum Welding Distortion
- Pilot Minimizes Installation Fixturing
- Also available in NPT threads

DIMENSIONS



ORDERING CODE



SPECIFICATIONS

MODEL	PORT SIZE	DIMENSIONS				
		A	B	C	D	E
TWF - 4	7/16" - 20	1.50"	.93"	.56"	.31"	1.00"
TWF - 5	1/2" - 20	1.50"	.93"	.56"	.31"	1.00"
TWF - 6	9/16" - 18	1.50"	.93"	.56"	.31"	1.00"
TWF - 8	3/4" - 16	1.50"	.93"	.56"	.31"	1.00"
TWF - 12	1-1/16" - 12	2.13"	1.38"	.69"	.44"	1.44"
TWF - 14	1-3/16" - 12	2.38"	1.66"	.75"	.50"	1.75"
TWF - 16	1-5/16" - 12	2.38"	1.66"	.75"	.50"	1.75"
TWF - 20	1-5/8" - 12	2.69"	2.00"	.75"	.50"	2.13"
TWF - 24	1-7/8" - 12	3.00"	2.25"	.75"	.50"	2.38"
TWF - 32	2-1/2" - 12	3.50"	2.63"	.84"	.59"	2.88"
TWF - 48*	3-3/8" - 12	4.63"	3.66"	1.00"	.81"	3.94"

* Compatible with FPC TMSS, TMST, TMSB & TMSF strainers. Not compatible with SAE J1926/1 for -48 size

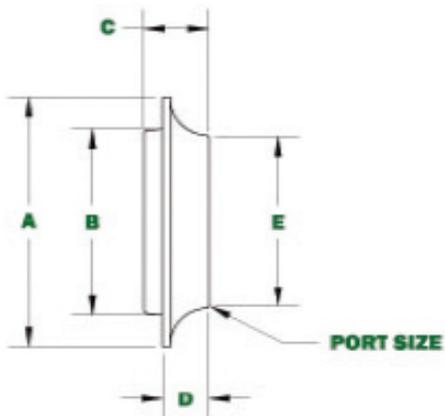
NOTE: Available in NPT threads and Aluminum/Stainless Steel Material. Contact Factory for availability

Use proper ventilation when welding

TWF SERIES NPT WELD FLANGES



DIMENSIONS



SPECIFICATIONS

PART NUMBER	NPT	DIMENSIONS				
		A	B	C	D	E
TWF-4N	1/4	1.50	0.94	0.56	0.31	1.00
TWF-6N	3/8	1.50	0.94	0.56	0.31	1.00
TWF-8N	1/2	1.75	1.13	0.63	0.38	1.19
TWF-12N	3/4	2.13	1.38	0.69	0.44	1.44
TWF-16N	1	2.38	1.66	0.75	0.50	1.75
TWF-20N	1-1/4	2.69	2.00	0.75	0.50	2.13
TWF-24N	1-1/2	3.00	2.25	0.75	0.50	2.38
TWF-32N	2	3.50	2.63	0.84	0.59	2.88
TWF-48N	3	4.63	3.66	1.00	0.81	3.94

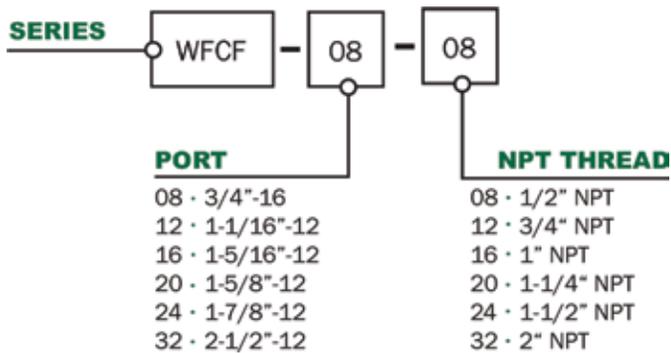
WFCF SERIES WELD FLANGES



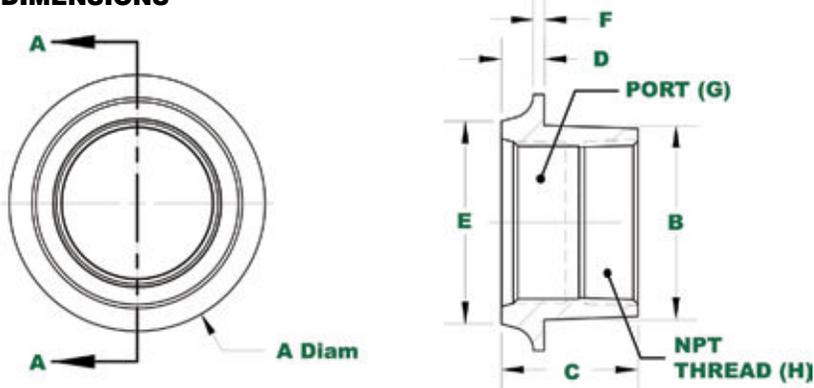
FEATURES

- Low Carbon Steel with a Maximum CE (carbon equivalent) of 0.45
- Design Offers Minimum Welding Distortion
- Pilot Minimizes Installation Fixturing
- Zinc Phosphate Coating Available

ORDERING CODE



DIMENSIONS



SPECIFICATIONS

PART NUMBER	DIMENSIONS						PORT G	NPT THREAD H
	A	B	C	D	E	F		
WFCF-08-08	1.50"	1.107"	1.00"	0.31"	1.00"	0.13"	3/4"-16	1/2"
WFCF-12-12	2.13"	1.363"	1.31"	0.44"	1.44"	0.13"	1-1/16"-12	3/4"
WFCF-16-16	2.38"	1.661"	1.50"	0.50"	1.75"	0.13"	1-5/16"-12	1"
WFCF-20-20	2.69"	2.027"	1.60"	0.50"	2.13"	0.13"	1-5/8"-12	1-1/4"
WFCF-24-24	3.00"	2.276"	1.60"	0.50"	2.38"	0.13"	1-7/8"-12	1-1/2"
WFCF-32-32	3.50"	2.769"	1.72"	0.60"	2.90"	0.13"	2-1/2"-12	2"

NOTE: Check with factory for availability
Use proper ventilation when welding

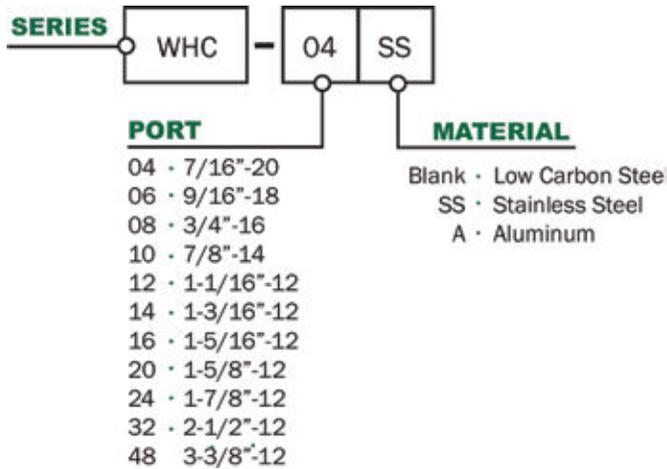
WHC SERIES WELD FLANGES - HALF COUPLINGS



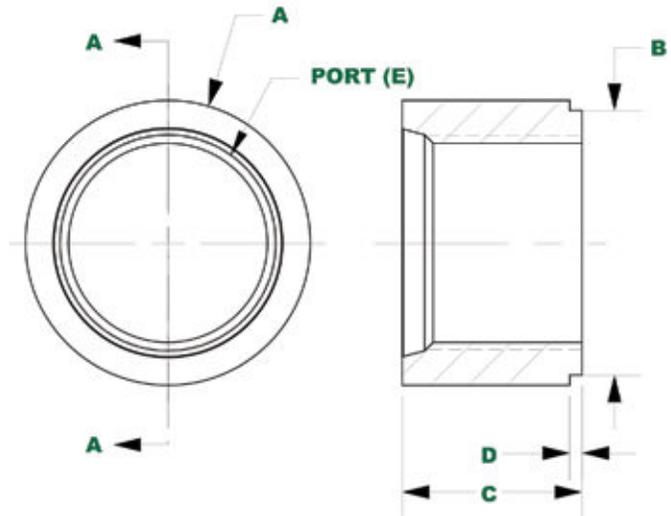
FEATURES

- Standard: Low Carbon Steel with a Maximum CE (carbon equivalent) of 0.45
- Optional: 6061-T651 Aluminum or 316L Stainless Steel
- Stock Items are noted in the table
- Zinc Phosphate Coating Available Steel Version

ORDERING CODE



DIMENSIONS



SPECIFICATIONS

PART NUMBER	STOCK	DIMENSIONS				PORT E	WEIGHT (LBS)
		A	B	C	D		
WHC-04		0.88"	0.750"	0.83"	0.08"	7/16"-20	0.11"
WHC-06	X	1.00"	0.875"	0.83"	0.08"	9/16"-18	0.13"
WHC-08	X	1.25"	1.125"	0.83"	0.08"	3/4"-16	0.23"
WHC-10		1.38"	1.250"	0.83"	0.08"	7/8"-14	0.22"
WHC-12		1.50"	1.375"	1.11"	0.08"	1-1/16"-12	0.31"
WHC-14		1.63"	1.500"	1.08"	0.08"	1-3/16"-12	0.33"
WHC-16		1.75"	1.625"	1.11"	0.08"	1-5/16"-12	0.37"
WHC-20		2.25"	2.125"	1.11"	0.08"	1-5/8"-12	0.64"
WHC-24	X	2.75"	2.500"	1.11"	0.08"	1-7/8"-12	1.04"
WHC-32	X	3.25"	3.000"	1.33"	0.08"	2-1/2"-12	1.35"
WHC-48		4.40"	4.000"	2.08"	0.08"	3-3/8"-12	3.88"

* Port E - O-Ring Boss Port Per SAE J1926 except for WHC-48

Use proper ventilation when welding

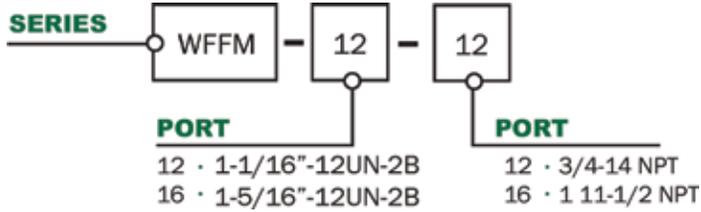
WFFM SERIES WELD FLANGE COUPLER



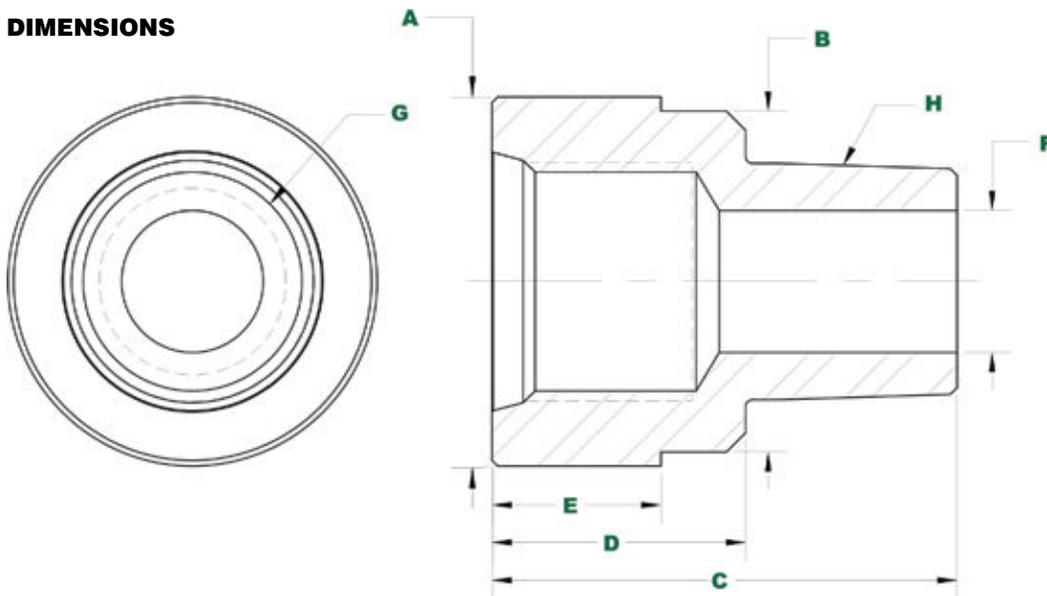
FEATURES

- Standard: Low Carbon Steel with a Maximum CE (carbon equivalent) of 0.45
- Zinc Phosphate Coating Available for Steel Version
- Compatible with SC, SE, ST Series Strainers

ORDERING CODE



DIMENSIONS



SPECIFICATIONS

PART NUMBER	DIMENSIONS						SAE J1926/1 PORT G	NPT THREAD E
	A	B (MAX)	C	D	E	F		
WFFM-12-12	1.64"	1.52"	2.07"	1.13"	0.75"	0.63"	1-1/16"-12UN-2B	3/4"-14
WFFM-16-16	1.91"	1.79"	2.26"	1.13"	0.75"	0.83"	1-5/16"-12UN-2B	1"-11 1/2

NOTE: Check with factory for availability

Use proper ventilation when welding

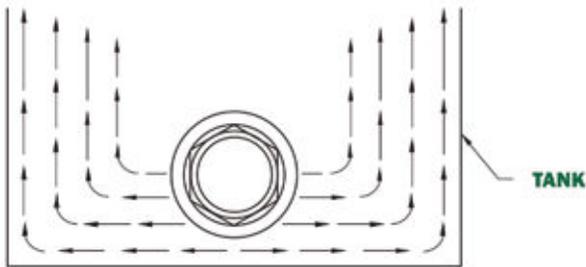
RD SERIES TANK DIFFUSERS



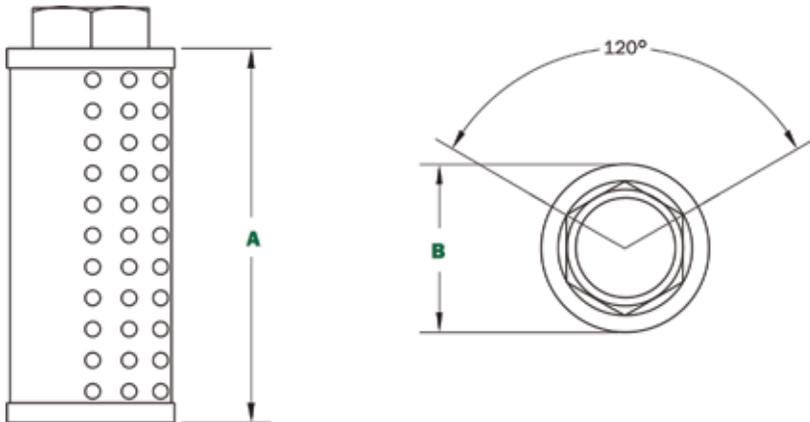
FEATURES

- Used in return line
- Reduces discharge velocity in two stages
- Minimizes turbulence and foaming
- Reduces aeration and noise level
- Replaces tank baffle in some applications

APPLICATION



DIMENSIONS



SPECIFICATIONS

MODEL NUMBER	THREAD (NPT)	DIMENSIONS		RATED CAPACITY (GPM)	WEIGHT (lbs)
		A	B		
RD2 - 025	3/4"	3"	3.1"	26	.75
RD2 - 040	1"	4.9"	3.1"	42	.84
RD2 - 060	1-1/4"	5.9"	3.4"	63	1.10
RD2 - 080	1-1/2"	6.9"	3.9"	85	1.54
RD2 - 120	2"	7.9"	3.9"	127	1.76

Can be used with: WFFM Weld Flange Series

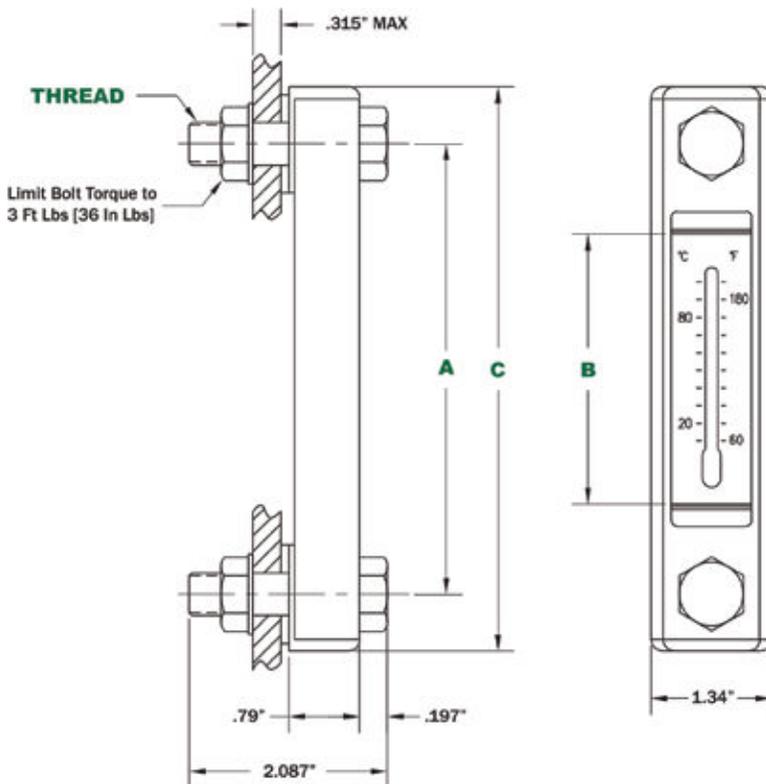
FLG/SLG SERIES SIGHT LEVEL GAUGES



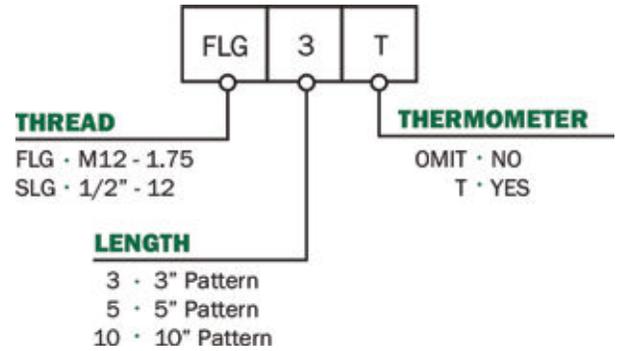
FEATURES

- Available in Both Metric and SAE Threads
- O-Ring Type Construction
- 3 Sizes: 3", 5" and 10" Between Bolt Centers
- For Non-Pressurized Tanks Only
- Can be Mounted on Tapped Holes
- Suitable for Mineral or Petroleum Based Fluids
- Contains Polycarbonate Components - Not compatible with Acetone, Ammonia Based Cleaners or Brake Fluid
- Thermometer Standard
- Maximum Operating Temperature: 176° F (80° C)
- Blue Thermometer Fluid for Enhanced Visibility

DIMENSIONS



ORDERING CODE



SPECIFICATIONS

MODEL	DIMENSIONS		
	A	B	C
FLG3T	3.00"	1.22"	4.25"
FLG5T	5.00"	2.99"	6.26"
FLG10T	10.00"	7.87"	11.26"
SLG3T	3.00"	1.22"	4.25"
SLG5T	5.00"	2.99"	6.26"
SLG10T	10.00"	7.87"	11.26"

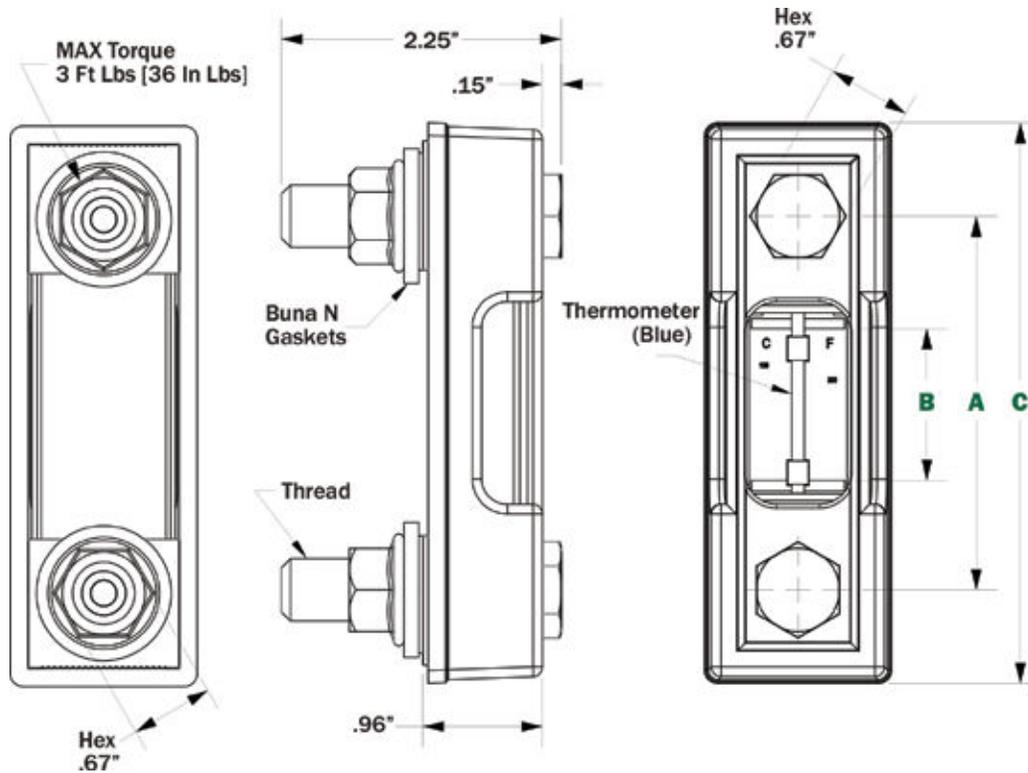
FLGC/SLGC SERIES SIGHT LEVEL GAUGES



FEATURES

- Available in Both Metric and SAE Threads
- O-Ring Type Construction
- 3 Sizes: 3", 5" and 10" Between Bolt Centers
- For Non-Pressurized Tanks Only
- Can be Mounted on Tapped Holes
- Suitable for Mineral or Petroleum Based Fluids
- Contains Polycarbonate Components - Not compatible with Acetone, Ammonia Based Cleaners or Brake Fluid
- Thermometer Standard
- Maximum Operating Temperature: 176° F (80° C)
- Blue Thermometer Fluid for Enhanced Visibility

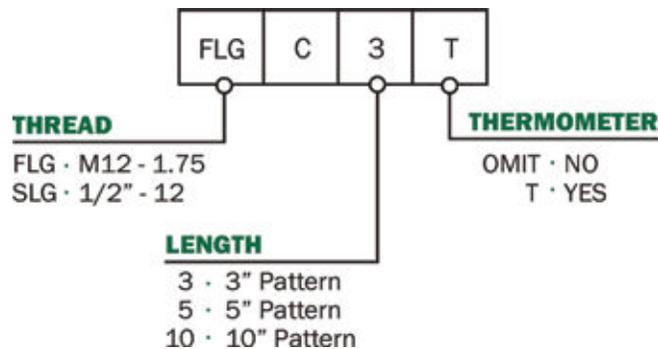
DIMENSIONS



SPECIFICATIONS

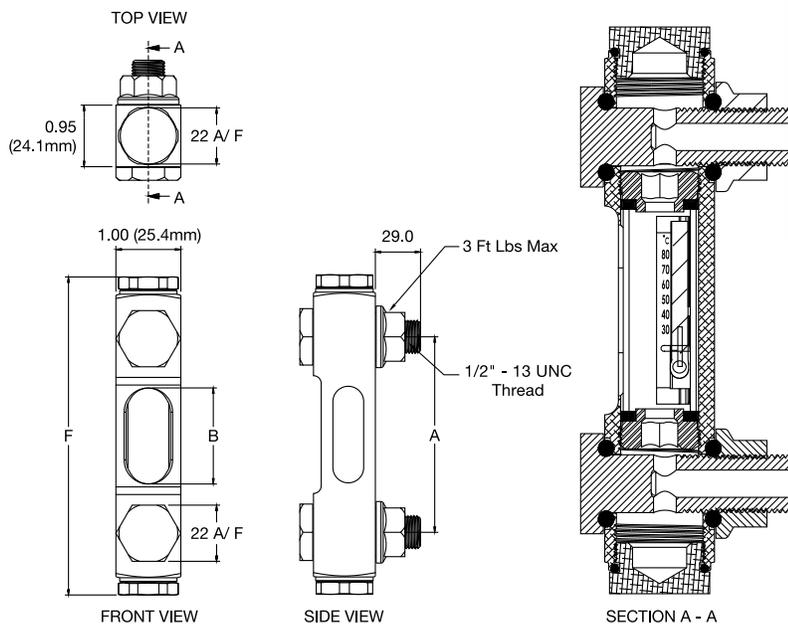
MODEL	DIMENSIONS		
	A	B	C
FLGC3T	3.00"	1.26"	4.50"
FLGC5T	5.00"	2.99"	6.50"
FLGC10T	10.00"	7.87"	11.38"
SLGC3T	3.00"	1.26"	4.50"
SLGC5T	5.00"	2.99"	6.50"
SLGC10T	10.00"	7.87"	11.38"

ORDERING CODE

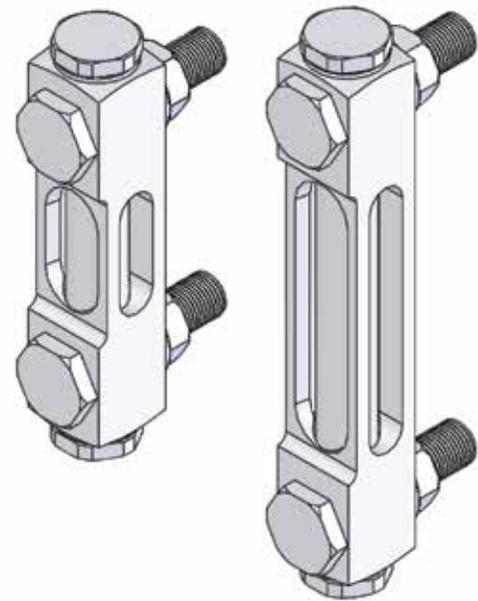


LEVEL GAUGE - SG 3

- 'O' Ring Type Construction
- 4 Sizes 3", 5", 7" & 10" Between Bolt Centers
- For Non Pressurized Tanks Only
- Can Be Mounted On Tapped Holes
- Suitable for Mineral / Petroleum Based Oils
- Maximum Temperature 100° C
- Side Slots Provided for Additional View



SG 3 - 03, 05, 07, & 10



MODEL CODE : ASSEMBLY

SG3	03	T	U
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SERIES

LENGTH

- 03 - 3" Bolt Centers
- 05 - 5" Bolt Centers
- 07 - 7" Bolt Centers
- 10 - 10" Bolt Centers

THERMOMETER

- Omit - No Thermometer
- T - Thermometer

THREADS

- U - (1/2" - 13 UNC Threads)
- M - M12X 1.75 Threads

MODEL	A		B		F		WT	
	In	mm	In	mm	In	mm	lb	kg
SG3-03	3.00	76.20	1.48	37.65	4.91	124.60	0.51	0.23
SG3-05	5.00	127.00	3.27	83.00	6.65	169.00	0.51	0.23
SG3-07	7.00	177.80	5.27	133.80	8.65	219.80	0.62	0.28
SG3-10	10.00	254.00	8.31	211.00	11.65	296.00	0.90	0.41

FILTER CONDITION INDICATORS



INDICATOR TYPES

PRESSURE INDICATORS

Available in gauge or electrical switch. Designed for use on Maradyne Fluid Power Group and return line filters.

SUCTION INDICATORS

Available in gauge designed for use on Maradyne Fluid Power Group suction filters.

GAUGES



P77-7021



P77-7003

1-1/2" steel case.

Brass stem, 1/8" center back.

Easy to read color-coded gauge to ensure proper servicing.

PART NUMBER	BY-PASS SETTING	APPLICATION
P77-7003	0 - 60 color coded, 15 PSI indication	Pressure
P77-7004	0 - 60 color coded, 25 PSI indication	Pressure
P77-7021	0 - 30" Hg	Vacuum

SWITCHES



P77-7005



P77-7006

ELECTRICAL SPECIFICATIONS

Voltage: 12 VDC, 7.0 AMP / 24 VDC, 5.0 AMP / 125/250 VAC, 5.0 AMP Inductive

Electrical circuit:

3 Wire

Black · Common
Green · N. Closed
Red · N. Open

DIN 43650

Black · 1
Green · 2
Red · 3

PART NUMBER	BY-PASS SETTING	APPLICATION	STYLE	CONNECTION
P77-7005	22 PSI set point (rising).	Pressure	DIN 43650	1/8" NPT
P77-7006	22 PSI set point (rising).	Pressure	3 Wire	1/8" NPT

RETURN LINE INDICATORS

Series LP & LD

Model LP

Pop Up Indicator



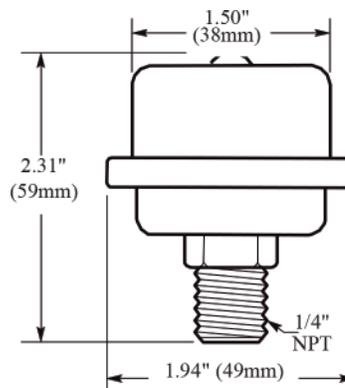
FEATURES

Provides visual warning signal indicating:

- contaminated filter element
- low fluid temperature
- high fluid viscosity
- impending opening of filter bypass valve

DESCRIPTION

The LP indicator red alert sleeve has a full 360° visibility. Mounted upstream of filter or directly on filter inlet side, the model LP requires no maintenance or calibration, and resists vibrations and shocks.



SPECIFICATIONS

Standard Settings:

LP-10—10 PSID (0.7 BAR)

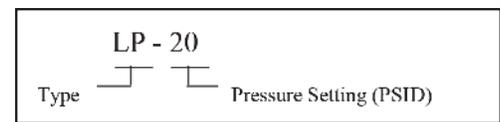
LP-20—20 PSID (1.4 BAR)

LP-25—25 PSID (1.7 BAR)

Operating Temperature: -40° F (-40° C) to 200° F (93° C) continuous

Housing: Nickel plated cold rolled steel

Sight Dome: Transparent, high impact polycarbonate



SUCTION LINE INDICATOR

Series MF-360 & ML-360



Vacuum Settings Available

- 2.5" Hg
- 5.5" Hg
- 9.5" Hg
- 13.0" Hg

FEATURES

Provides visual warning signal of excessive vacuum condition at pump inlet caused by:

- contaminated filter element
- low fluid temperature
- high fluid viscosity
- impending opening of filter bypass valve

DESCRIPTION

The MF/ML-360 indicators have a red alert sleeve visible from a full 360°. In the red alert position, the ML-360 remains locked during system shutdown. The MF-360 does not hold the red alert during system shutdown. Mounted near the pump inlet, Model MF/ML-360 indicators require no maintenance or calibration, and they resist vibrations and shocks.

SPECIFICATIONS

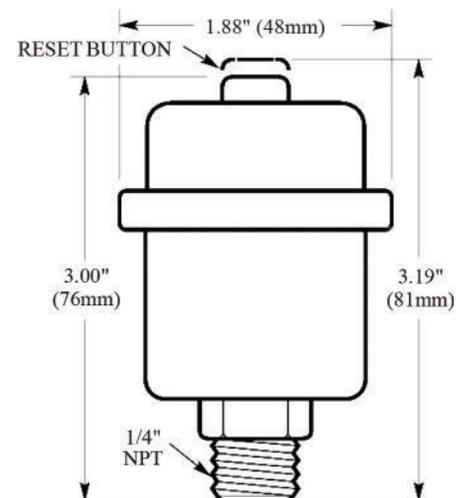
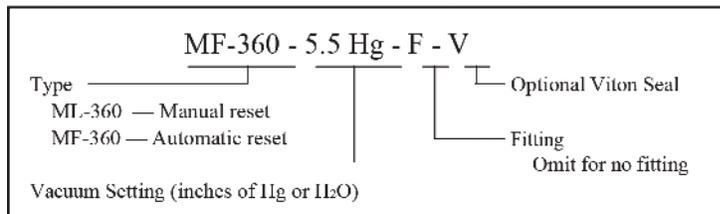
Operating Temperature:
 -40° F (-40° C) to 200° F (93° C) continuous
 Housing:
 Nickel plated cold rolled steel
 Sight Dome:
 Transparent, high impact polycarbonate



Vacuum Settings Available

- 2.5" Hg
- 5.5" Hg
- 9.5" Hg
- 13.0" Hg

Ordering Information



DIFFERENTIAL PRESSURE INDICATOR

Series D

FEATURES

Provides visual warning signal of increasing pressure drop across pressure filter assembly indicating:

- contaminated filter element
- low fluid temperature
- high fluid viscosity
- impending opening of filter bypass valve

DESCRIPTION

All “D” Series indicators have a red alert sleeve visible from a full 360°. The DHE and DCE are also equipped with a switch and electrical connection that can be used to actuate a remote warning or even activate a complete system shutdown. Mounted in relation to the high pressure filter, the “D” Series indicators require no maintenance or calibration, and they resist vibrations and shocks.



Model DCM
Mechanical Only
Cartridge Style



Model DCE
Mechanical/Electrical
Cartridge Style

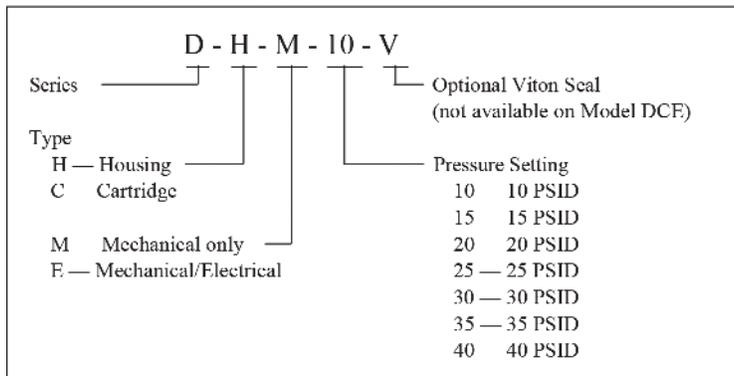


Model DHM
Mechanical Only
with Housing



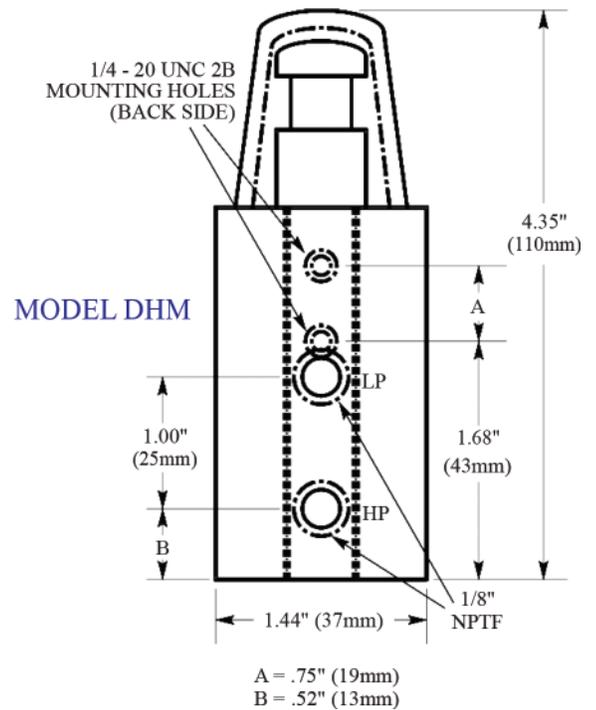
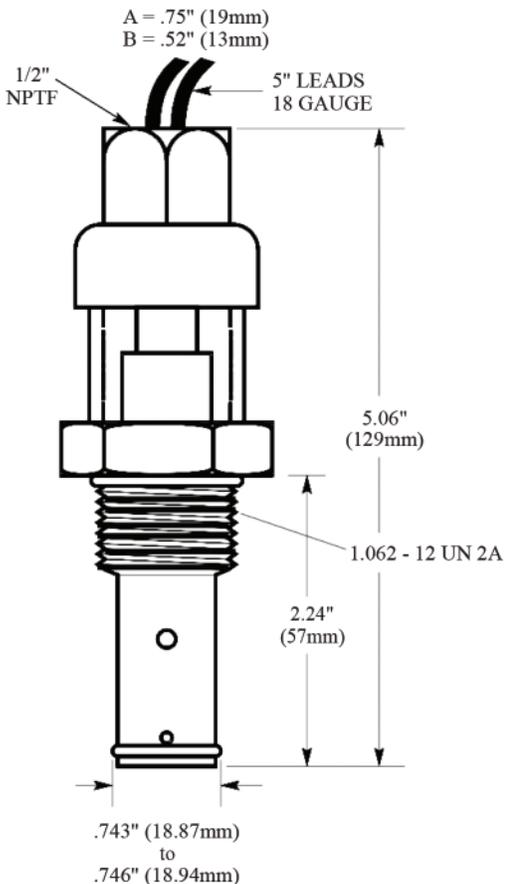
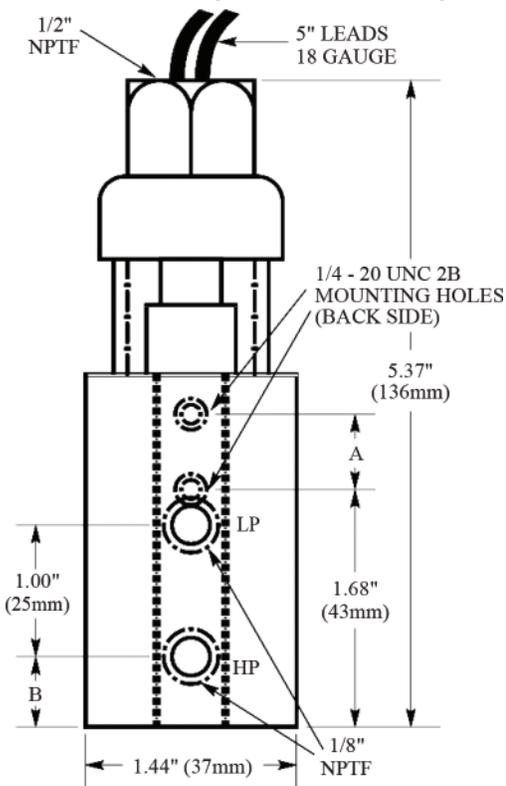
Model DHE
Mechanical/Electrical
with Housing

Ordering Information



DIFFERENTIAL PRESSURE INDICATOR

Series D (continued)



Specifications

- Standard Settings:
 10 PSID (0.7 BAR)
 15 PSID (1.0 BAR)
 20 PSID (1.4 BAR)
 25 PSID (1.7 BAR)
 30 PSID (2.0 BAR)
 35 PSID (2.4 BAR)
 40 PSID (2.8 BAR)

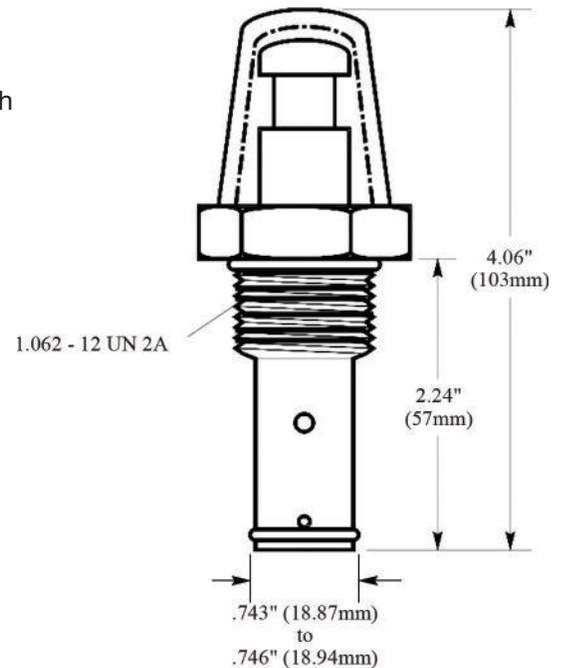
Operating Temperature:
 To 5000 PSI (345 BAR)

Operating Temperature
 -40°F (-40°C) to 200°F
 (93°C) continuous

Housing: Aluminum

Sight Dome: Transparent, high
 impact polycarbonate

Electrical (DHE & DCE only):
 125/250 VAC-28 VDC,
 3 amp maximum inductive
 and restrictive current,
 normally open



RESERVOIRS

Reservoirs are a critical component on all hydraulic systems. Maradyne manufactures and stocks four standard reservoirs. (details below) Our innovative engineering team can design a custom reservoir to your specifications. Materials include carbon and stainless steel or plastic roto molded. Reservoirs are painted with an epoxy resin to resist corrosion. Standard tank connections are NPTF. Custom ports are available on special orders.

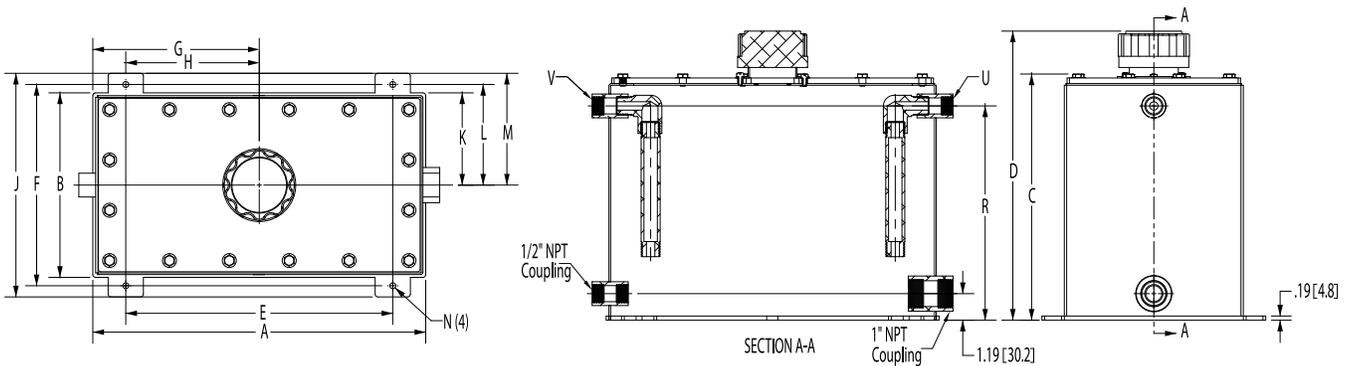
CUSTOM SIZES AVAILABLE

Call us for pricing or additional details.

10 L (2.64 gal), 20 L (5.28 gal), 20 L-Tall (5.28 gal), 30 L (7.93 gal)

FEATURES

- Removable Top
- Sump Strainer
- Filler Breather
- Mounting Brackets



RESERVOIRS	A	B	C	D	E	F	G	H	J	K	L	M	N	R	U	V	Capacity Gallons
	Inch	Inch	Inch	Inch	$\pm .015$ Inch	$\pm .015$ Inch	Inch	Inch	Inch	Inch	Inch	Inch	$\pm .015$ Inch	Inch	NPT Coupling	NPT Coupling	
H-RES-001-P	14.65	8.25	11.00	12.93	11.930	9.000	7.33	5.97	10.00	4.13	4.50	5.00	0.265	9.58	1"	1"	3.5
H-RES-002-P	11.02	8.47	8.69	10.60	8.465	10.079	5.51	4.23	11.61	4.23	5.04	5.81	0.438	7.26	1/2"	—	2.6
H-RES-003-P	14.95	8.88	10.22	12.16	11.870	10.239	7.48	5.94	11.77	4.44	5.12	5.89	0.438	8.81	1"	—	5.3
H-RES-004-P	18.31	9.06	12.24	14.16	15.551	10.630	9.15	7.78	12.21	4.53	5.32	6.10	0.438	10.81	1"	—	7.9

MP SERIES MAGNETIC PLUGS



FEATURES

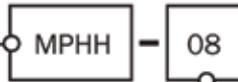
- Available in (-8, -12, and -16)-Ring Boss Threads (J1926)
- Choice of socket or hex style head
- Zinc plated steel body standard
- High performance ceramic magnet
- Mating weld flanges available (see TWF Series)

ORDERING CODE

MODEL

MPHH · Hex Head

MPSH · Socket Head



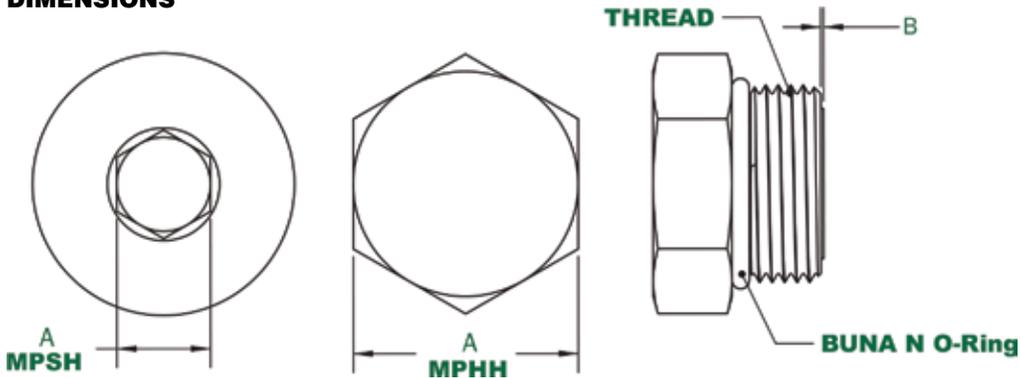
THREAD

08 · 3/4"-16

12 · 1-1/16"-12

16 · 1-5/16"-12

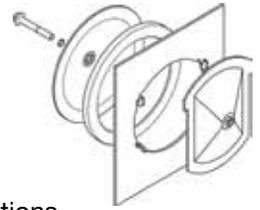
DIMENSIONS



SPECIFICATIONS

PART NUMBER	THREAD	DIMENSIONS	
		A	B
MPHH-08	3/4"-16	7/8"	.02"
MPHH-12	1-1/16"-12	1-1/4"	.02"
MPHH-16	1-5/16"-12	1-1/2"	.02"
MPSH-08	3/4"-16	5/16"	.16"
MPSH-12	1-1/16"-12	9/16"	.32"
MPSH-16	1-5/16"-12	5/8"	.18"

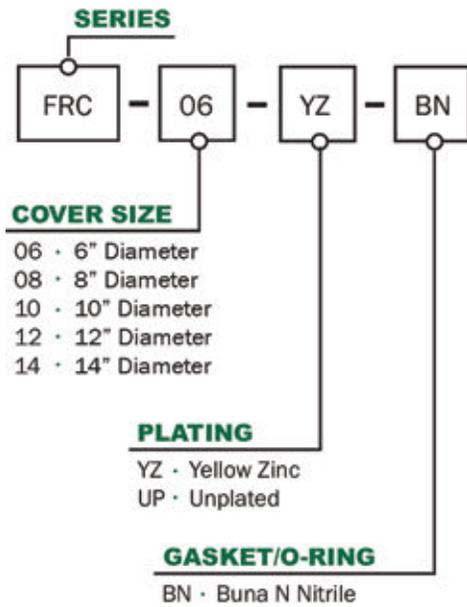
FRC SERIES TANK CLEAN-OUT COVER



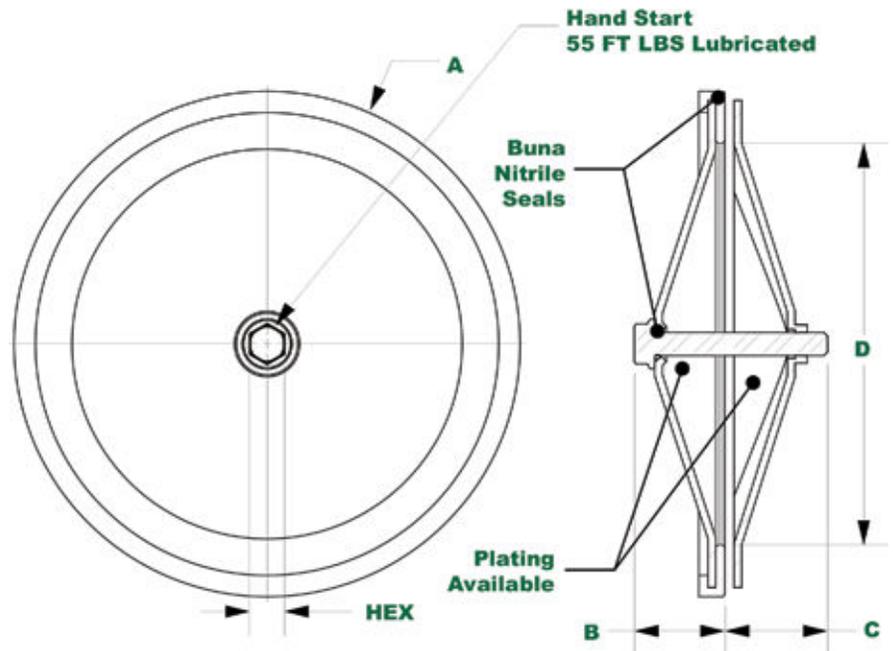
FEATURES

- Finish: Plain Steel or Yellow Zinc Plated
- Gasket Standard Material is Nitrile
- High Temperature Cork/Poly Acrylic Rubber gasket & Viton O-Ring available for Powder Paint Coated Applications
- Tab benders available for purchase (typically for 7 gauge material)

ORDERING CODE



DIMENSIONS



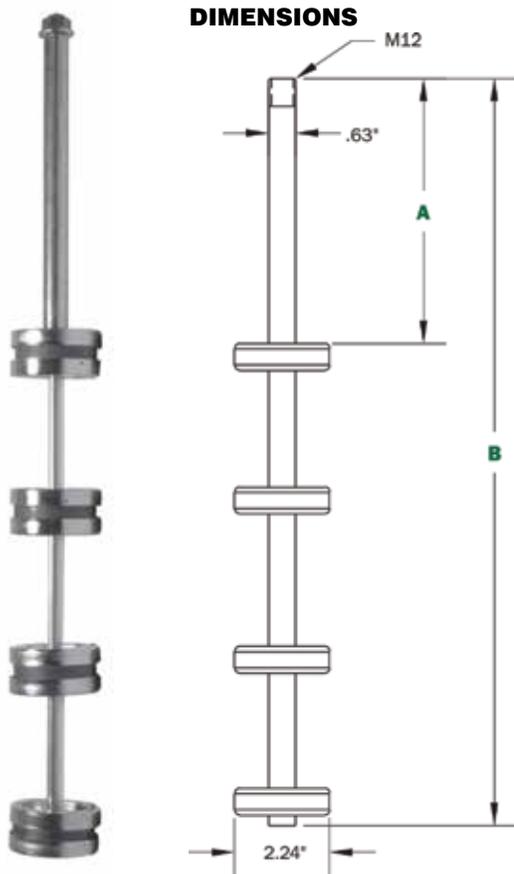
NOTE: Contact factory for Cork/Poly Acrylic Rubber availability

US PATENT 7,721,904

SPECIFICATIONS

PART NUMBER	DIMENSIONS					FINISH
	A	B	C	D	HEX	
FRC-06-UP-BN	6.00"	1.29"	1.88"	5.00"	18mm	Unplated
FRC-06-YZ-BN	6.00"	1.29"	1.88"	5.00"	18mm	Plated
FRC-08-UP-BN	8.25"	1.31"	1.86"	6.00"	18mm	Unplated
FRC-08-YZ-BN	8.25"	1.31"	1.86"	6.00"	18mm	Plated
FRC-10-UP-BN	10.38"	1.86"	2.11"	8.00"	18mm	Unplated
FRC-10-YZ-BN	10.38"	1.86"	2.11"	8.00"	18mm	Plated
FRC-12-UP-BN	12.38"	2.23"	2.17"	10.00"	18mm	Unplated
FRC-14-UP-BN	14.38"	2.63"	2.81"	12.00"	0.75"	Unplated

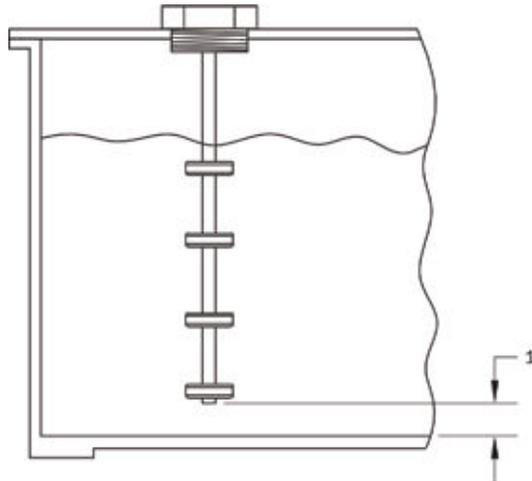
MT SERIES MAGNETIC TANK CLEANER



SPECIFICATIONS

MODEL	DIMENSIONS		WT (lbs)
	A	B	
MT - 18	4.9"	17.7"	2.1
MT - 21	7.9"	20.7"	2.3
MT - 24	10.8"	23.6"	2.5

ORDERING CODE



FEATURES

- No moving parts
- Decrease wear on pumps/valves, etc.
- Removes ferrous contaminants
- Easily removed without downtime or loss of oil
- Improved performance when used with diffuser
- Exceptionally efficient large ceramic magnets

MARION to MARADYNE FLUID POWER GROUP SPIN-ON CROSSOVER

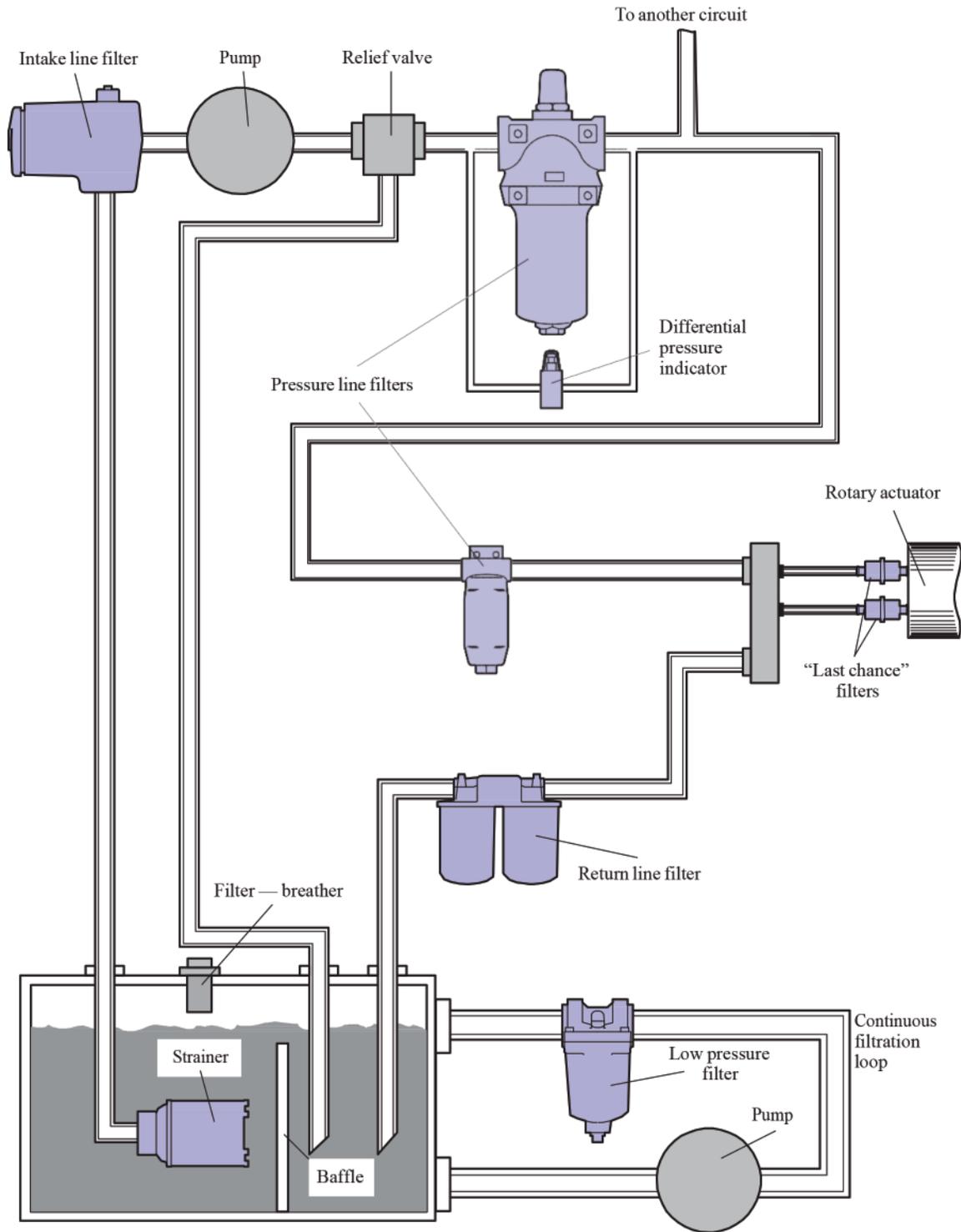


**PRIVATE
LABELING
AVAILABLE**

MARION to MARADYNE FLUID POWER GROUP SPIN-ON CROSSOVER

S-28	FPE30-10N	10 Micron, Paper Media
S-28 MG	FPE30-10G	10 Micron, Microglass
S-29	FPE30-25N	25 Micron, Paper Media
S58	FPE50-10N	10 Micron, Paper Media
S-58E	FPE70-10N	10 Micron Paper, Extended Version
S-58MG	FPE50-10G	10 Micron, Microglass
S-58-MGE	FPE70-10G	10 Microglass, Extended Version
S-59	FPE50-25N	25 Micron, Paper Media
S-59E	FPE70-25N	25 Micron Paper, Extended Version

ALL ALONG THE LINE...THERE'S MARADYNE



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