

10F, 50F Series Indicating Inlet Strainers

Flows to 329 L/min (87 USgpm)
Pressure to 0.3 bar (5 psi) vacuum to 20 bar (300 psi) positive



Features and Benefits

- Stainless elements have 149 micron (100 mesh) screen to protect pumps from solid contaminants
- Available flows to 329 L/min (87 USgpm) on pressure inlets and 254 L/min (67 USgpm) on vacuum inlets
- Standard integral air bleed feature prevents formation of large bubbles. This provides faster priming of pumps at startup and prevents pump damage
- Housing can be adapted to handle most hydraulic fluids
- Large, easy to read, standard visual indicator (or optional electrical indicator) informs operator when element needs to be cleaned
- Elements can be cleaned and reused
- Standard bypass valve protects against pump damage

DESIGN SPECIFICATIONS

Rated flow:	See Table	
Filtration:	Filter is supplied with 149 micron (100 mesh) wire cloth element.	
Fluid compatibility:	Standard model is compatible with most petroleum oil, water glycol, and water-in-oil fluids. Optional seals and coatings are available for use in phosphate esters and oil-water emulsions. See fluids and seals note in model code.	
Temp range:	-40°C to + 107°C (-40°F to 225°F)	
Pressure rating:	10F and 50F	0,3 bar (5 psi)
Material:	Cover Housing	Die Cast Aluminum Cast Aluminum
Dry weight:	10F	2,5kg (5.5 lbs)
Approximate	50F	5,7kg (12.5 lbs)

Maximum Flow Ratings

This table presents recommendations for use in both pressurized inlet systems and the more common vacuum inlet systems. The effects of fluid viscosity, specific gravity, and fluid flow rate on the pump inlet system (including the filter) have been taken into consideration. Even with a bypass condition in effect due to element dirt loading, a margin of pump protection is still afforded.

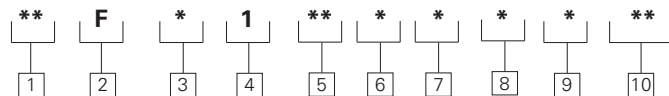
MODEL SERIES	VACUUM INLET*		PRESSURIZED INLET**	
	NORMAL SERVICE†	SPECIAL SERVICE††	NORMAL SERVICE†	SPECIAL SERVICE††
	L/min (USgpm)	L/min (USgpm)	L/min (USgpm)	L/min (USgpm)
10FA	45 (12)	30 (8)	61 (16)	42 (11)
50FB	106 (28)	76 (20)	140 (37)	95 (25)
50FC	178 (47)	125 (33)	257 (68)	167 (44)
50FD	254 (67)	178 (47)	329 (87)	238 (63)

* 0.3 bar (5 psi) vacuum to 0 bar (0 psi)

** 0 bar (0 psi) to 20 bar (300 psi)

† For use with petroleum oil up to 48 cSt (225 SUS) with less than 457mm (18") lift on vacuum applications.

†† For use with petroleum oils above 48 cSt (225 SUS) and fire resistant fluids.



Model Code

Sample model code:

10FA1BBMB3X12

1 Package Size

10 - 10 size
50 - 50 size

2 Model Series

F - Indicating type inlet filter

3 Port Size

A - 1" (10F)
B - 1-1/2" (50F)
C - 2" (50F)
D - 2-1/2" (50F)

4 Mean Filtration Rating

1 - 149 micron (100 mesh)

5 Port Type

BB - G1 (formerly 1" BSPF) thd. (10F only)
FF - 4-bolt SAE flange
SS - SAE straight thd. in housing (except 50FD)
PF - Inlet: NPTF pipe thd. in housing
Outlet: 4-bolt SAE flange
SF - Inlet: SAE Straight thd. in housing
Outlet: 4-bolt SAE flange (except 50FD)

6 Indicator

E - Electrical
L - Less (without) indicator parts
M - Mechanical

7 Seals

B - Buna - N
V - Viton

8 Bypass valve

3 - 0.2 bar (3 psi) differential opening pressure
2 - 0.1 bar (2 psi) differential opening pressure

9 Option

M - Magnets
X - No Magnets

10 Design Number

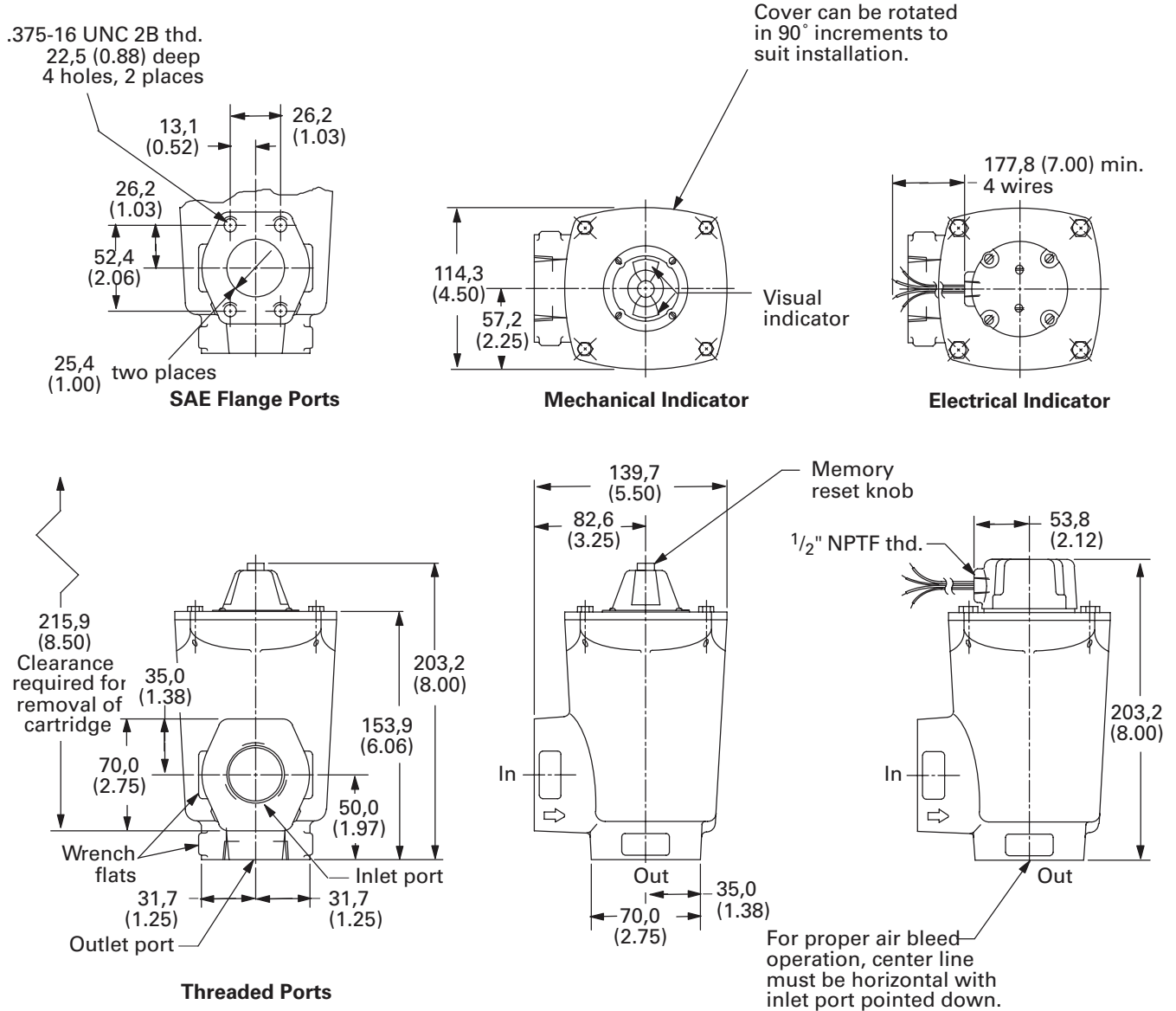
12 - Mechanical indicator or no indicator
20 - Electrical indicator

10F Series

Indicating Inlet Strainers

10FA Model Series

mm (inch)



ELEMENT AREA CM ² (IN ²)	INLET AND OUTLET PORT THREADS				
	PIPE THREAD*	SAE STRAIGHT THREAD	TUBE SIZE	NPTF FLANGE*	WELDED FLANGE
419.4 (65)	1" NPTF G1 (1" BSPF)	1.312-12 UN	1.000	FLI-8-08P-10	FLI-8-08W-10

*Not recommended

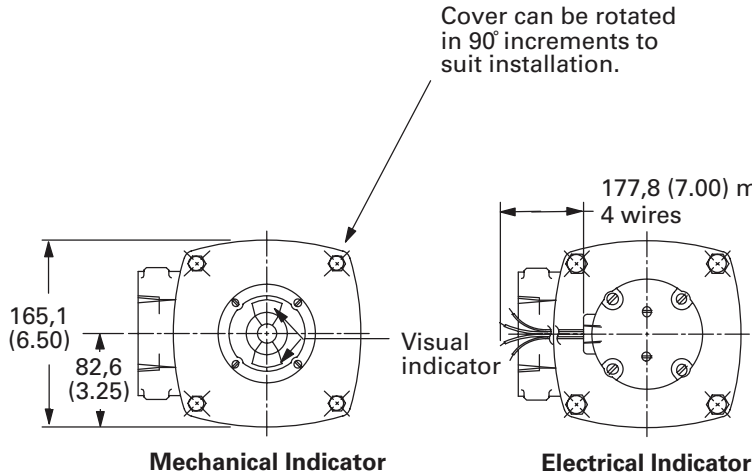
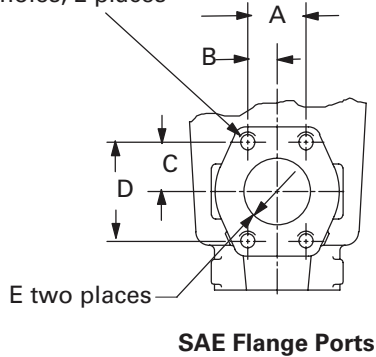
50F Series

Indicating Inlet Strainers

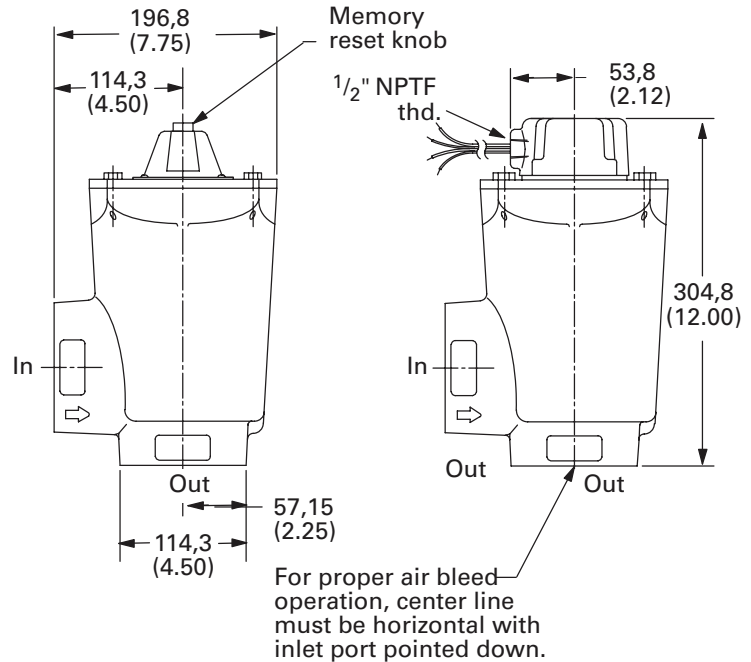
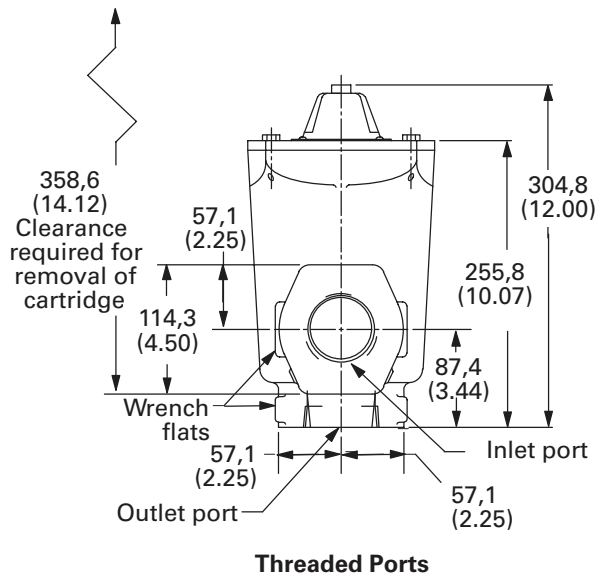
50F* Model Series

mm (inch)

.500-13 UNC 2B thd.
26,9 (1.06) deep
4 holes, 2 places



Cover can be rotated in 90° increments to suit installation.



Memory reset knob

1/2" NPTF thd.

For proper air bleed operation, center line must be horizontal with inlet port pointed down.

MODEL	ELEMENT AREA CM ² (IN ²)	INLET AND OUTLET PORT THREADS					SAE FLANGE PORT DIMENSIONS				
		PIPE THREAD*	SAE STRAIGHT THREAD	TUBE SIZE	NPTF FLANGE*	WELDED FLANGE	A	B	C	D	E
50FB	645,2 (100)	1 1/2"	1.875-12 UN	1.50	FLI-12-12P-10	FLI-12-12W-10	35,7 (1.41)	17,8 (0.70)	35,1 (1.38)	69,8 (2.75)	38,1 (1.50)
50FC	1419,4 (220)	2"	2.500-12 UN	2.00	FLI-16-16P-10	FLI-16-16W-10	42,9 (1.68)	21,3 (0.84)	38,9 (1.53)	77,8 (3.06)	50,8 (2.00)
50FD	1419,3 (220)	2 1/2"	-	-	FLI-20-20P-10	FLI-20-20W-10	50,8 (2.00)	25,4 (1.00)	44,4 (1.75)	88,9 (3.50)	63,5 (2.50)

*Not recommended