

Reservoir Accessories

*Filler Breathers, Strainers, Diffusers,
Fluid Level/Temperature Gauges*



Global Filtration Technology

Reservoir Accessories

Filler Breathers

Non-Metallic Filler Breathers Single-Hole and Six-Hole Styles

Specifications:

Materials:

Body: Non-corrodible glass filled nylon.

Valve: Nylon/Nitrile.

Dipstick: ABS, acetal Hi/Lo indicators.

Filtration Element: Expanded polyurethane foam, 10 micron.

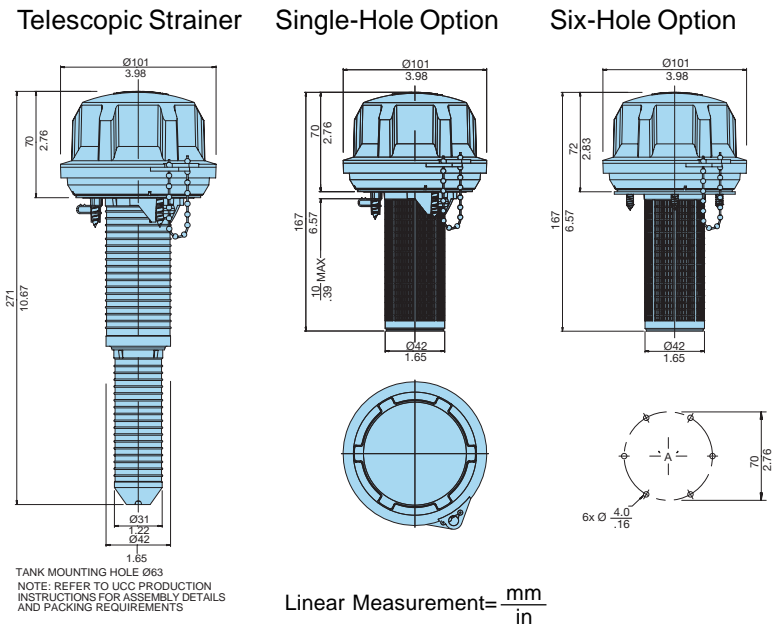
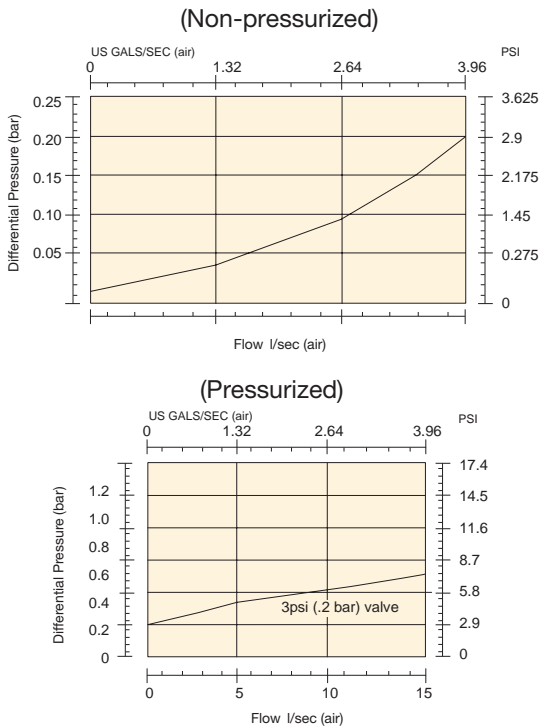
Operating Temperatures: -22°F (-30°C) to 195°F (90°C).

Seals: Nitrile (single-hole), cork gasket (six-hole).

Pressurization Options: 3 psi (0.2 bar).

Dipstick: (optional) 7.9 in. (200 mm) or 15.8 in. (400 mm) lengths with adjustable Hi/Lo indicators.

Anti-Splash Design!



Non-pressurized

Single-Hole	Six-Hole	Micron Rating	Description	Screws*
FB1.A1A1A2P	FB1.D1A1A2P	10	Filler breather without strainer	(6)-M10x.5
FB1.A1A1B2P	FB1.D1A1B2P	10	Filler breather with 3.7" (95 mm) strainer	(6)-M10x.5
FB1.A1A1C2P	FB1.D1A1C2P	10	Filler breather with telescopic strainer	(6)-M10x.5

Pressurized

Single-Hole	Six-Hole	Micron Rating	Description	Screws*
Not Available	FB1.D1B1A2P	10	3 psi (.2 bar) without strainer	(6)-M10x.5
Not Available	FB1.D1B1B2P	10	3 psi (.2 bar) with 3.7" (95 mm) strainer	(6)-M10x.5
Not Available	FB1.D1B1C2P	10	3 psi (.2 bar) with telescopic strainer	(6)-M10x.5

Dipsticks

Part Number	Description
DIP.FB2	Pack of (10) x 7.9"
DIP.FB4	Pack of (10) x 15.8"

*Mounting screws for six-hole only

Non-Metallic Breathers

Threaded Type

Specifications:

Materials:

Body: Nylon 66.
Valve: Nylon/Nitrile.
Dipstick: ABS, acetal Hi/Lo indicators.

Filtration Element: Expanded polyurethane foam, 10 micron.

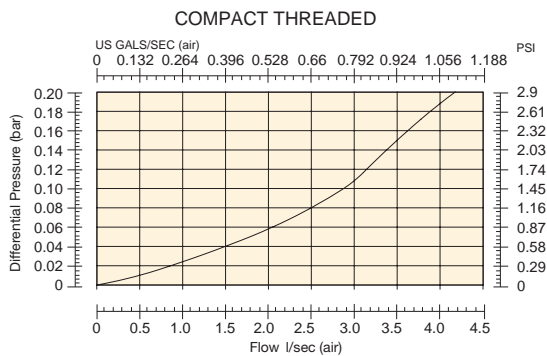
Operating Temperatures: -22°F (-30°C) to 195°F (90°C).

Seals: Nitrile.

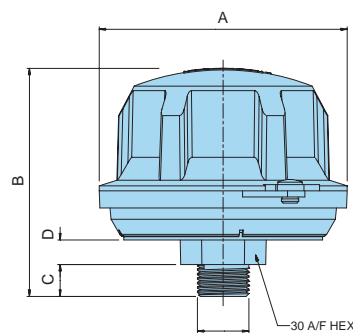
Pressurization Options: 3 psi (0.2 bar).

Dipstick: (optional) 7.9 in. (200 mm) or 15.8 in. (400mm) lengths with adjustable Hi/Lo indicators.

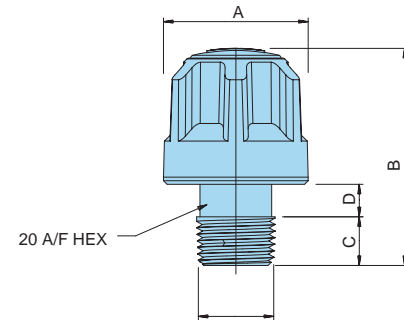
Anti-Splash Design!



Standard Threaded



Compact Threaded



Compact Threaded

Part Number	Micron Rating	Thread	Pressure	"A"	"B"	"C"	"D"
SB1.A1A2P*	10	1/4"NPT	non-pressurized	1.6" (40 mm)	2.2" (57 mm)	.55" (14 mm)	.24" (6 mm)
SB1.B1A2P*	10	3/8" NPT	non-pressurized	1.6" (40 mm)	2.3" (57 mm)	.49" (12.5 mm)	.35" (9 mm)
SB1.C1A2P*	10	1/2" NPT	non-pressurized	1.6" (40 mm)	2.4" (60 mm)	.53" (13.5 mm)	.35" (9 mm)
SB1.D1A2P*	10	3/4" NPT	non-pressurized	1.6" (40 mm)	2.4" (60 mm)	.55" (14 mm)	.35" (9 mm)

*Pack of (10) pieces.

Standard Threaded

Part Number	Micron Rating	Thread	Pressure	"A"	"B"	"C"	"D"
FB1.C1A3A2P	10	1/2"NPT	non-pressurized	4.0" (101 mm)	3.7" (93 mm)	.51" (13 mm)	.39" (10 mm)
FB1.C1B3A2P	10	1/2" NPT	3 psi (.2 bar)	4.0" (101 mm)	3.7" (93 mm)	.51" (13 mm)	.39" (10 mm)
FB1.B1A3A2P	10	3/4" NPT	non-pressurized	4.0" (101 mm)	3.8" (95 mm)	.63" (16 mm)	.39" (10 mm)
FB1.B1B3A2P	10	3/4" NPT	3 psi (.2 bar)	4.0" (101 mm)	3.8" (95 mm)	.63" (16 mm)	.39" (10 mm)

Dipsticks

Part Number	Description
DIP.FB2	Pack of (10) x 7.9"
DIP.FB4	Pack of (10) x 15.8"

Reservoir Accessories

Filler Breathers

Metal Filler Breathers

Flange Type

Specifications:

Materials:

Cap & Plate: Nickel chrome plated steel.

Valve: Nylon/Nitrile.

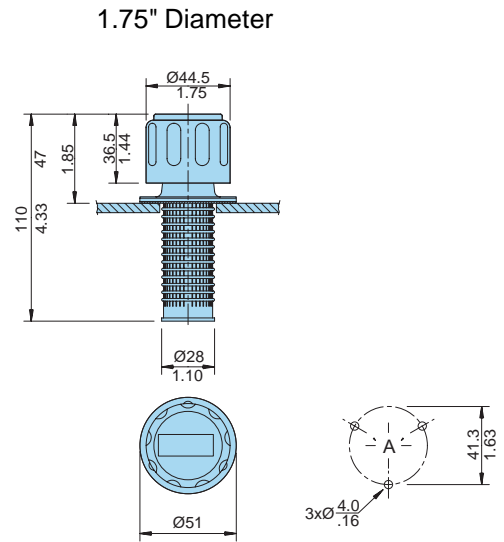
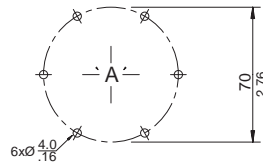
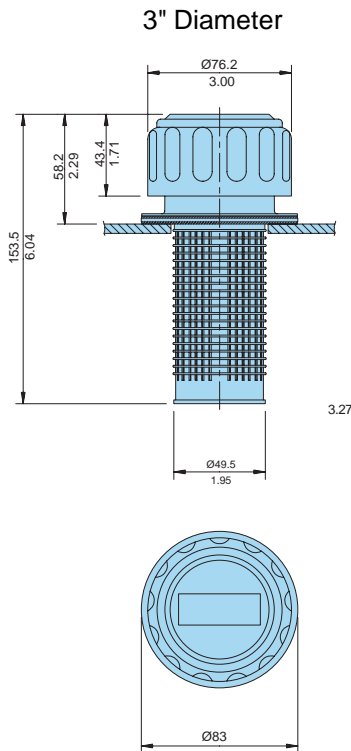
Gasket: Cork.

Filtration Element: Expanded polyurethane foam, 10 micron.

Operating Temperatures: -22°F (-30°C) to 195°F (90°C).

Seals: Nitrile.

Pressurization Options: none, 5 psi (0.35 bar).



Linear Measurement = $\frac{\text{mm}}{\text{in}}$

Flange Type, Non-pressurized

Part No.	Part No. (Cap Assy.)	Micron Rating	Air Flow	Description	Screws
MB1.D1A1B1P	CP1.D1A1A1P	10	2 gallon/sec. (7.5 l/sec.)	3" (76 mm) diameter	(6)-M10x.5
MB1.D1A1B2P	Not Available	10	1.3 gallon/sec. (5 l/sec.)	3" (76 mm) diameter, with locking lug	(6)-M10x.5
MB1.A1A1B1P	CP1.A2A1A1P	10	2 gallon/sec. (7.5 l/sec.)	1.75" (44.5 mm) diameter	(6)-M10x.5

Flange Type, Pressurized

Part No.	Part No. (Cap Assy.)	Micron Rating	Air Flow	Description	Screws
MB1.D1C1B1P	CP1.D1C1A1P	10	2 gallon/sec. (7.5 l/sec.)	5 psi (.35 bar), 3" (76 mm) diameter	(6)-M10x.5

Metal Breathers

Threaded Type

Specifications:

Materials:

Cap & Plate: Nickel chrome plated steel.

Valve: Nylon/Nitrile.

Gasket: Cork.

Filtration Element: Expanded polyurethane foam, 10 micron.

Operating Temperatures: -22°F (-30°C) to 195°F (90°C).

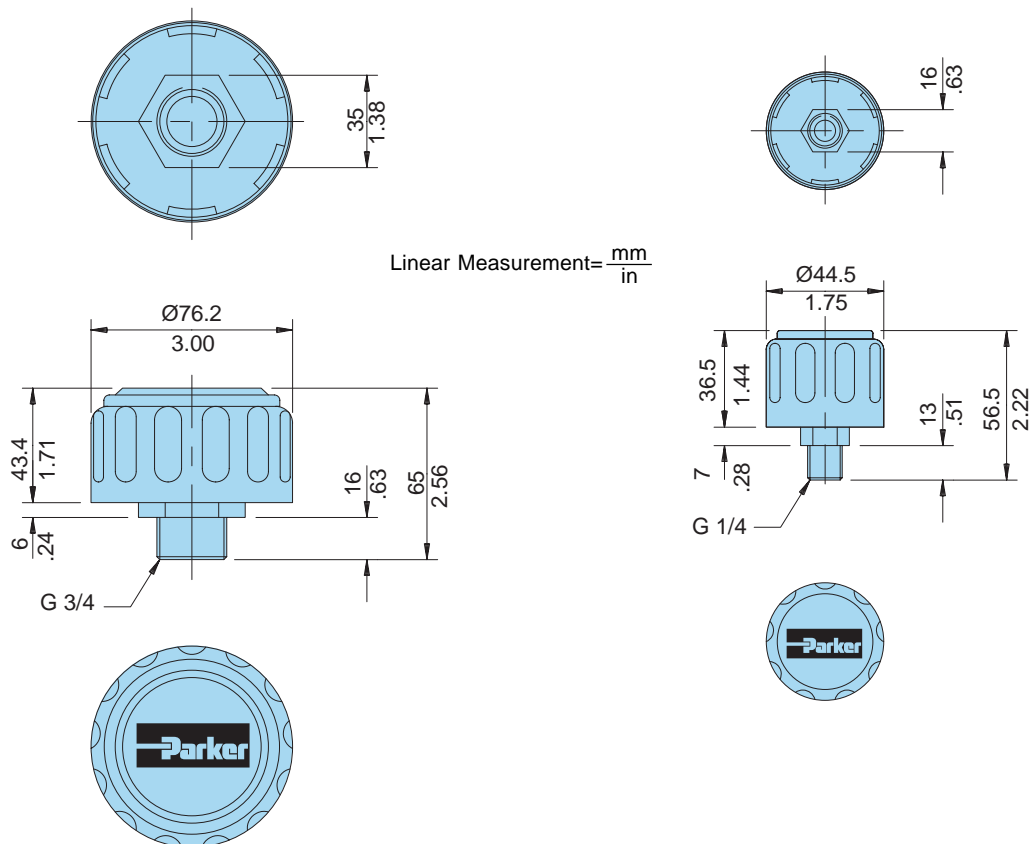
Seals: Nitrile.

Pressurization Options: none, 5 psi (0.35 bar).



3/4" Threaded

1/4" Threaded



Threaded, Non-pressurized

Part Number	Micron Rating	Air Flow	Thread	Description
MB1.B1A3A1P	10	1.3 gallon/sec. (5 l/sec.)	3/4" NPT	3" (76 mm) diameter
MB1.C1A3A1P	10	.7 gallon/sec. (2.5 l/sec.)	1/4" NPT	1.75" (44.5 mm) diameter

Threaded, Pressurized

Part Number	Micron Rating	Air Flow	Thread	Description
MB1.B1C3A1P	10	2 gallon/sec. (7.5 l/sec.)	3/4" NPT	5psi (.35 bar) with 3" (76 mm) diameter

Reservoir Accessories

Breathers

Breathers

Desiccant Type

Specifications:

Materials:

Casing: Clarified copolymer polypropylene.

Cap: Copolymer polypropylene.

Stand pipe: PVC.

Filtration Element: Polyester, silica gel, activated carbon.

Operating Temperatures: -20°F (-29°C) to 250°F (121°C).

Seals: None.

Maximum Allowable

Operating Pressure (MAOP): 5 psi (.34 bar).

Particle Removal Efficiency:

98.7% (beta 75) @ 3 micron

99.5% (beta 200) @ 4 micron

99.9% (beta 1000) @ 5.3 micron

Weight:

934330 1.25 lbs. (.57 kg) each.

934331 1.75 lbs. (.79 kg) each.

934332 2.25 lbs. (1.02 kg) each.



Features

Foam Pads

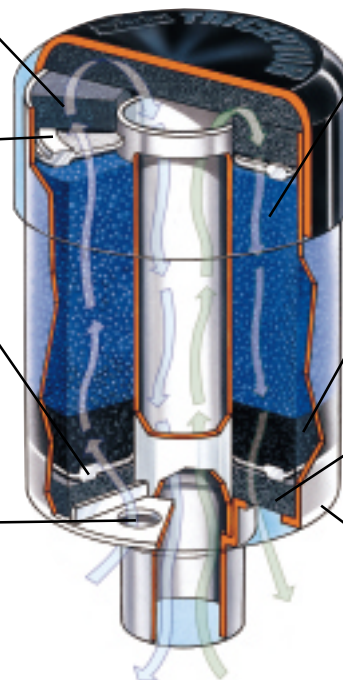
Isolates the removal materials from contact with heavy reservoir mist and securely holds materials in place.

Filter Pads

Specially designed filter pads remove solid particulate on upstream side and then regenerate by releasing those particles when air flow reverses direction. Lower pad removes airborne contamination and second pad protects against any migration of desiccant and activated carbon.

Air Intakes

A total of eight air intakes may be exposed to allow air to freely flow in and out of the TriCeptor.



Silica Gel Desiccant

Has the highest removal capability by volume of any adsorption method. Indicates condition by changing color.

Activated Carbon

Removes oil vapors and associated odors. The mixture percentage is designed to provide a life consistent with the silica gel.

Foam pad

Insures filter pad is properly positioned and protects it from external damage.

Molded Housing

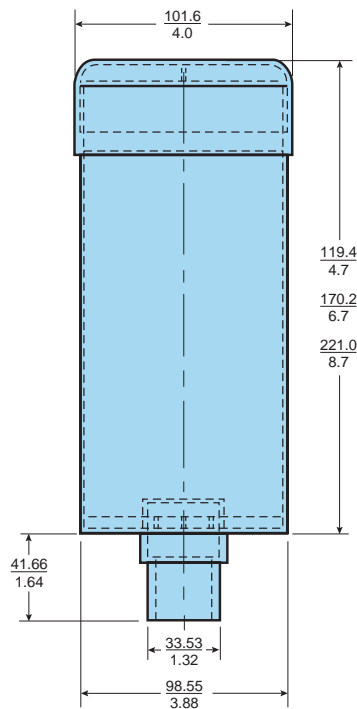
Durable shock absorbing casing provides reliable service and simple press in mounting.

Installation

TriCeptor breathers are designed for simple installation on most equipment, regardless of mounting connection. Since TriCeptor breathers are disposable, the simple press fit design allows for quick and easy maintenance. Several mounting adapters (shown below) are available to provide the desired mounting. The installation/ replacement process consists of four easy steps:

1. Remove from protective plastic wrap.
2. Remove 1" blue cap from standpipe.
3. Remove foil label to expose the necessary amount of air intake holes.
4. Press TriCeptor into mounting adapter.

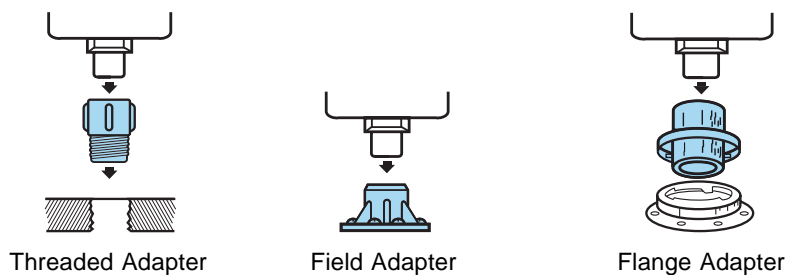
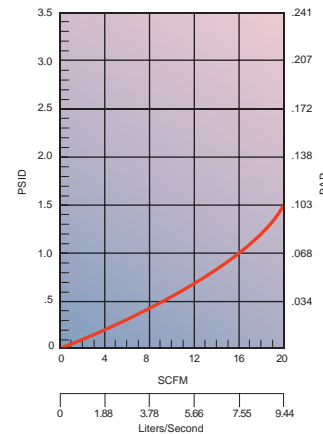
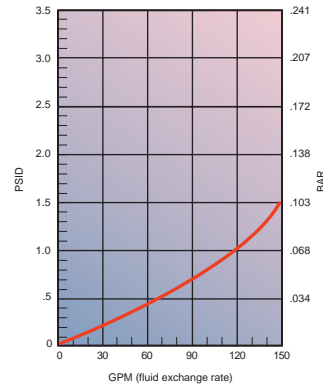
Servicing the TriCeptor breather is also very easy. When the silica gel changes color from blue to a pink, the breather is no longer active and needs to be replaced. Simply remove the unit and discard properly.



$$\text{Linear Measurement} = \frac{\text{mm}}{\text{in}}$$

Air Flow Performance

The curves below show the air flow performance of the three TriCeptor breathers. To insure the longest life possible, the initial clean pressure drop should not exceed 1.5 psid (.103 bar).



Model	Part Number	Quantity
5" Breather	934330	6 pcs.
7" Breather	934331	6 pcs.
9" Breather	934332	6 pcs.
Threaded Adapter	934365	1 pc.
Field Adapter	934366	1 pc.
Flange Adapter	934367	1 pc.

Reservoir Accessories

Breathers

Breathers

Spin-on Type

Specifications:

Materials: Low carbon steel.

Filtration Element: Cellulose.

Operating Temperatures:

-40°F (-40°C) to 225°F (107°C).

Seals: Nitrile.

Weight: 12AT - 1.2 lbs(.54 kg) each.
50AT - 2.3 lbs. (1.0 kg) each.

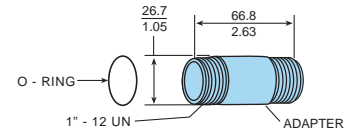
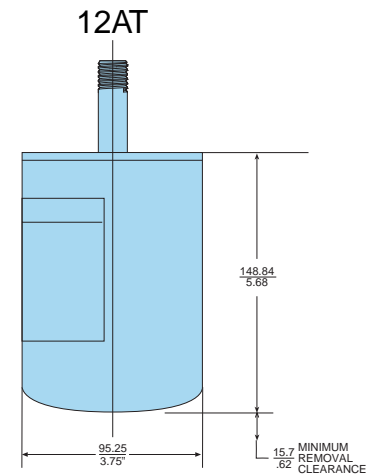
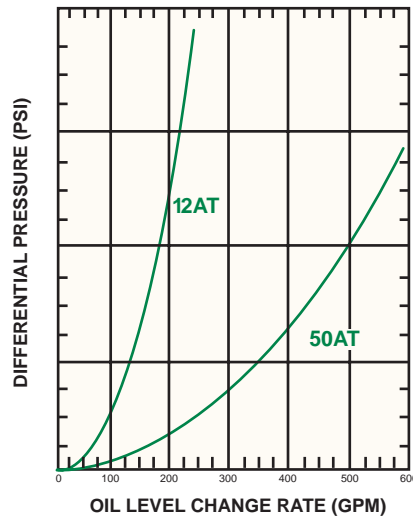
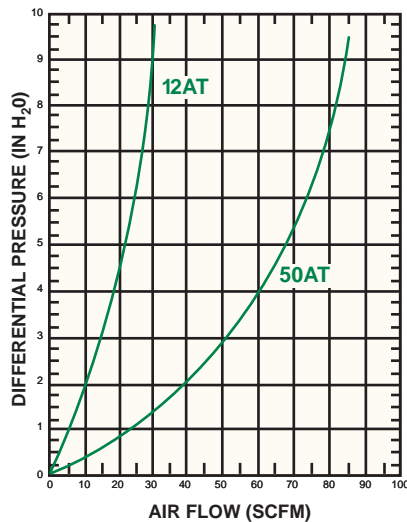


Sizing

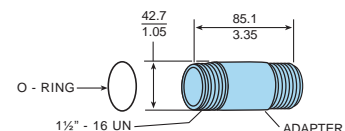
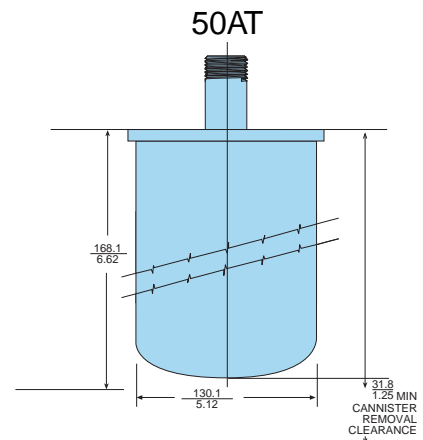
Select the proper size canister for the maximum rate of reservoir draw down or air exchange rate. As a rule of thumb, clean pressure drop should be limited to 0.18 psid (5" H₂O).

Recommended canister change out is after 500 hours of operation. More frequent replacement may be required when operated in heavily contaminated areas such as grinding operations, primary metal mills, and on mobile equipment. Under such conditions, increase replacement frequency to every 250 hours.

$$\text{Linear Measurement} = \frac{\text{mm}}{\text{in}}$$



P/N 926876



P/N 926875

Element	Air Rating*	Diameter	Adaptor Kit
926543	1 micron	3.75"	926876
921999	2 micron	3.75"	926876
925023	5 micron	3.75"	926876
926541	1 micron	5.1"	926875
926169	2 micron	5.1"	926875
926170	5 micron	5.1"	926875

*99% removal efficiency for particles larger than stated size in air.

Diffusers

Specifications:

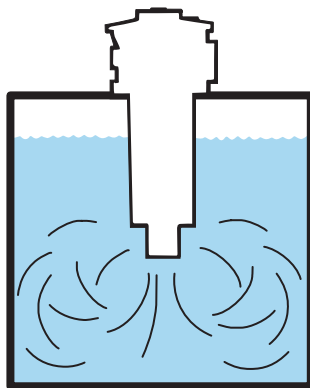
Operating Temperatures: 195°F (90°C) maximum.

Materials: Body & end cap: Zintec.
Head: glass-filled nylon.

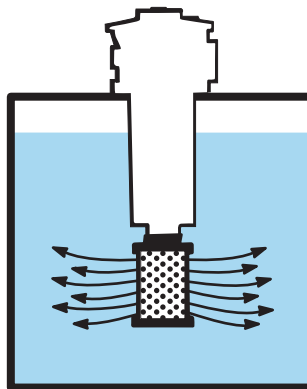
Weight: See chart below.

Benefits:

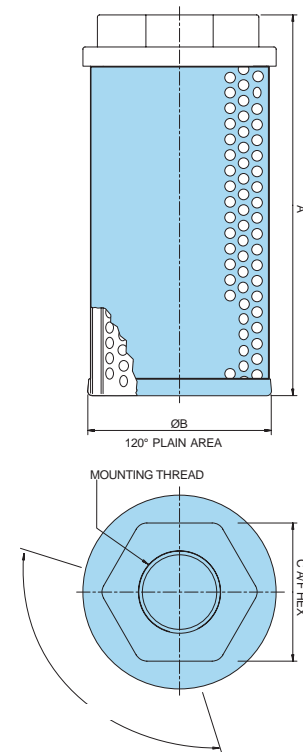
Installing a diffuser in a hydraulic reservoir is a simple change that can make a dramatic difference in system efficiency. With special concentric tubes designed with discharge holes 180° opposed, fluid aeration, foaming and reservoir noise are reduced. Pump life is also extended by reducing cavitation to the pump inlet. The effects of fitting a system with a diffuser are shown below.



Flow without diffuser



Flow with diffuser fitted



Part Number	Thread (NPT)	Nominal Flow GPM (LPM)	Length "A" Inch (mm)	Diameter "B" Inch (mm)	HEX "C" Inch (mm)	Weight Lbs. (kg)
DF1.A2BP	3/4"	13 (50)	4.7 (120)	2.4 (62)	1.81 (46)	.60 (0.27)
DF1.B4BP	1"	30 (114)	5.0 (127)	3.4 (86)	2.17 (55)	.93 (0.42)
DF1.B6BP	1 1/2"	60 (227)	7.0 (178)	3.4 (86)	2.56 (65)	1.23 (0.56)
DF1.B9BP	2"	120 (454)	9.5 (242)	3.4 (86)	2.95 (75)	1.52 (0.69)

Reservoir Accessories

Fluid Level/Temperature Gauges

Fluid Level/ Temperature Gauges

Specifications:

Materials:

Lens: Transparent polyamide.

Lens base: Nylon 66.

Shroud: High impact polystyrene (no aluminum content).

Seals: Nitrile.

Maximum Operating Pressure: 14.7 psi (1 bar).

Operating Temperatures: -22°F (-30°C) to 195°F (90°C).

Thermometer Range: 90°F to 210°F (30°C to 90°C).

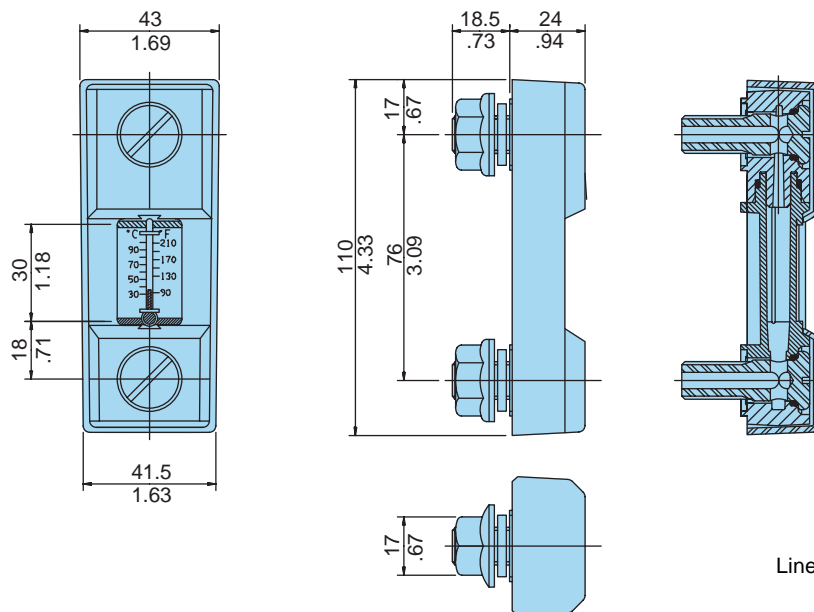
Indicator: Blue alcohol.

Fluid Compatibility: Mineral and petroleum based fluids.

Mounting: Front or rear fixing, two holes (M10).



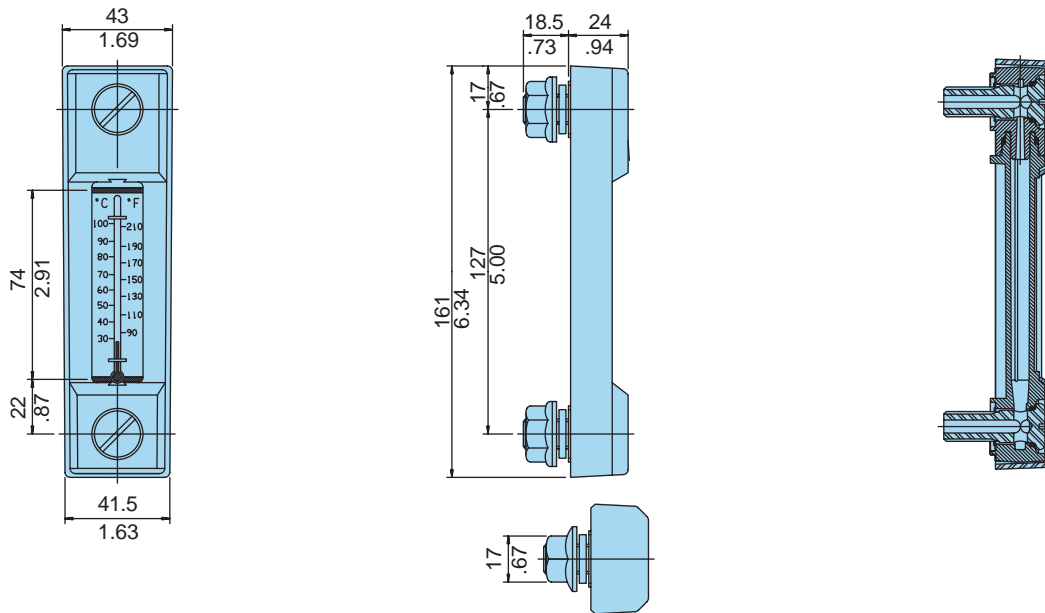
Length 3



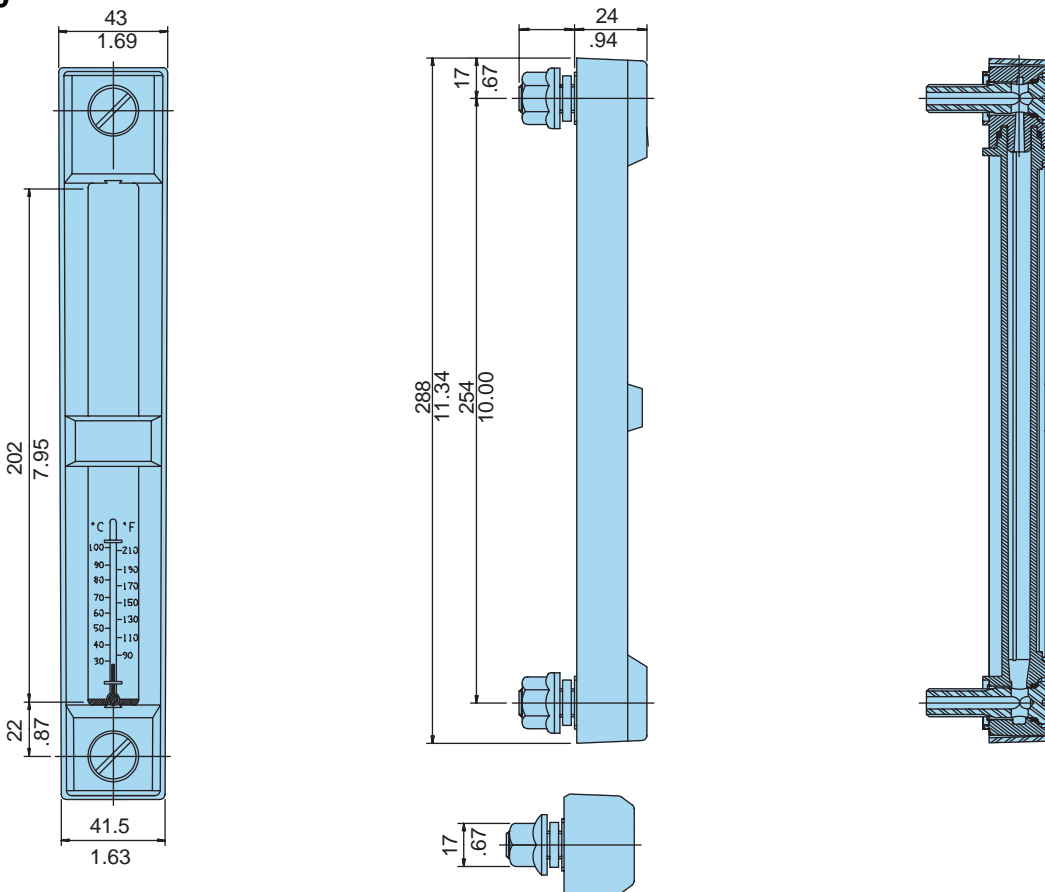
Linear Measurement= $\frac{\text{mm}}{\text{in}}$

Part Number	Thread	Length	Description
LG1.A2A2P	M10	3	Fluid level and temperature
LG1.B2A2P	M10	5	Fluid level and temperature
LG1.C2A2P	M10	10	Fluid level and temperature

Length 5



Length 10



Linear Measurement = $\frac{\text{mm}}{\text{in}}$

Reservoir Accessories

Suction Strainers

Suction Strainers

Specifications:

Materials:

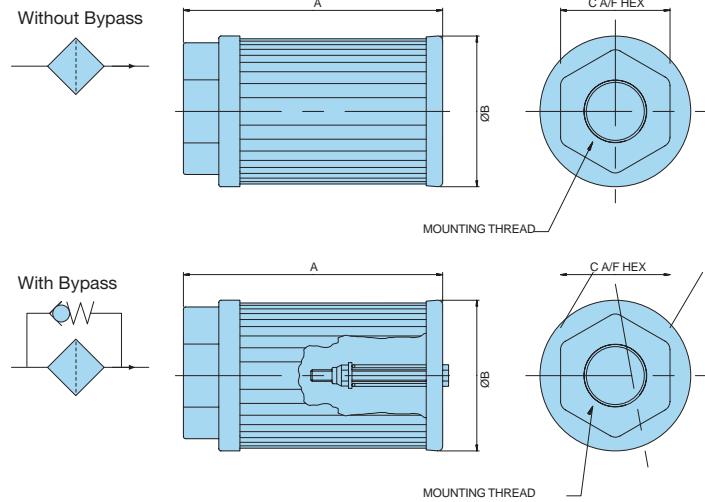
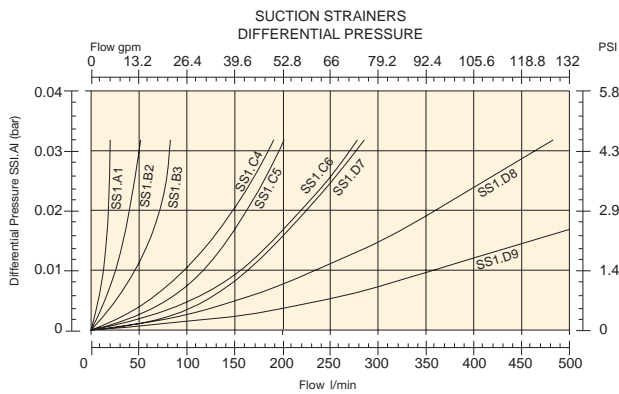
Media: Stainless steel.
 Tube and endcap: Zintec.
 Head: glass filled nylon.

Filtration Element: 125 micron stainless steel mesh.

Operating Temperatures: 195°F (90°C) maximum.

Bypass: None, 3 psi (0.2 bar).

Weight: See chart below.



Part Number With Bypass	Part Number Without Bypass	Port (NPT)	Nominal Flow GPM (LPM)	Length "A" Inch (mm)	Diameter "B" Inch (mm)	Hex "C" Inch (mm)	Weight Lbs. (kg)
SS1.A1B1BP	SS1.A1B1AP	1/2"	4 (15)	4.15 (105.5)	1.81 (46)	1.42 (36)	.18 (.08)
SS1.B2B1BP	SS1.B2B1AP	3/4"	7 (25)	4.31 (109.5)	2.52 (64)	1.81 (46)	.33 (.15)
SS1.B3B1BP	SS1.B3B1AP	1"	13 (50)	5.50 (139.5)	2.52 (64)	2.17 (55)	.37 (.17)
SS1.C4B1BP	SS1.C4B1AP	1 1/2"	25 (95)	5.51 (140)	3.39 (86)	2.56 (65)	.62 (.28)
SS1.C5B1BP	SS1.C5B1AP	1 1/2"	34 (130)	7.87 (200)	3.39 (86)	2.56 (65)	.73 (.33)
SS1.C6B1BP	SS1.C6B1AP	2"	48 (180)	10.24 (260)	3.39 (86)	2.95 (75)	.88 (.40)
SS1.D7B1BP	SS1.D7B1AP	2"	59 (225)	5.91 (150)	5.91 (150)	2.76 (70)	1.41 (.64)
SS1.D8B1BP	SS1.D8B1AP	2 1/2"	92 (350)	8.35 (212)	5.91 (150)	3.54 (90)	1.59 (.72)
SS1.D9B1BP	SS1.D9B1AP	3"	132 (500)	10.71 (272)	5.91 (150)	3.94 (100)	2.03 (.92)