



# Reservoir Accessories

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



ENGINEERING YOUR SUCCESS.

# Reservoir Accessories

## Non-Metallic Filler Breathers

### Specifications

#### Materials:

Body: Non-corrodible glass filled nylon

Valve: Nylon/Nitrile

Dipstick: ABS, acetal Hi/Lo indicators

**Filtration Element:** Expanded polyurethane foam, 10 micron

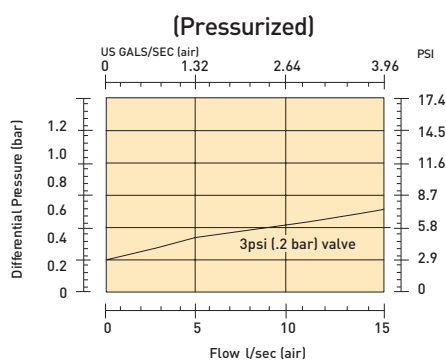
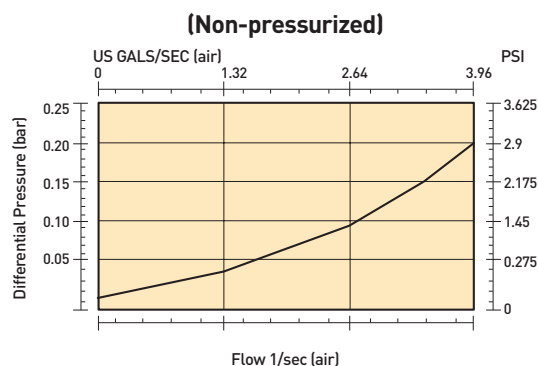
**Operating Temperatures:** -22°F (-30°C) to 195°F (90°C)

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

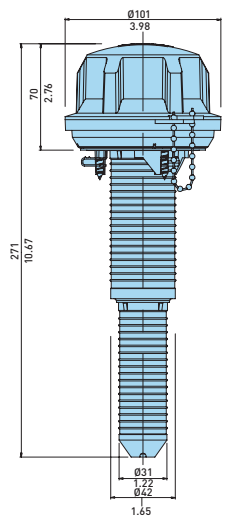
**Pressurization Options:** 3 psi (0.2 bar)

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

**Anti-Splash Design!**

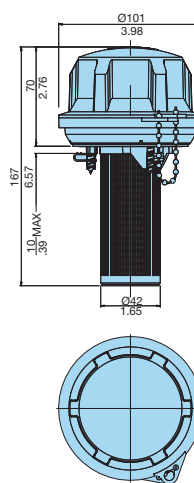


### Telescopic Strainer

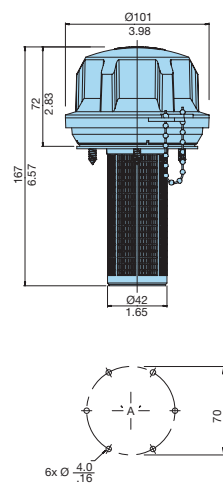


TANK MOUNTING HOLE Ø63  
NOTE: REFER TO UCC PRODUCTION  
INSTRUCTIONS FOR ASSEMBLY DETAILS  
AND PACKING REQUIREMENTS

### Single-Hole Option



### Six-Hole Option



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

### Non-pressurized

Single-Hole Part Number	Six-Hole Part Number	Micron Rating	Description	Screws*
AB98210011	AB.98810011.UC	10	Filler breather w/ 3.7" (95 mm) strainer	(6)-#10x.5
AB98210021	AB.98810021.UC	10	Filler breather w/ telescopic strainer	(6)-#10x.5

### Pressurized

Single-Hole Part Number	Six-Hole Part Number	Micron Rating	Description	Screws*
Not available	AB.98812021.UC	10	3 psi (.2 bar) with telescopic strainer	(6)-#10x.5

### Dipsticks

Part Number	Description
B68206	Pack of (10) x 7.9"
B68207	Pack of (10) x 15.8"

\*Mounting screws for six-hole only

Drawings are for reference only.  
Contact factory for current version.

# Reservoir Accessories

## Non-Metallic Breathers

### 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

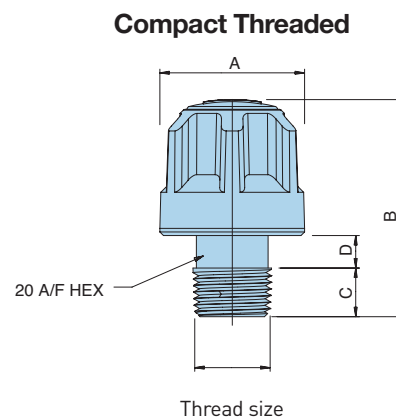
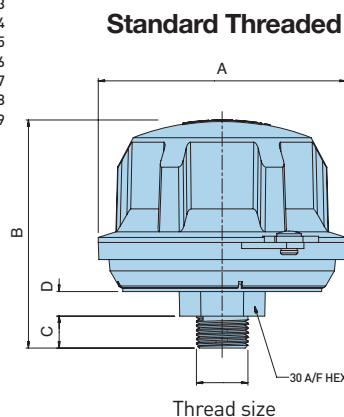
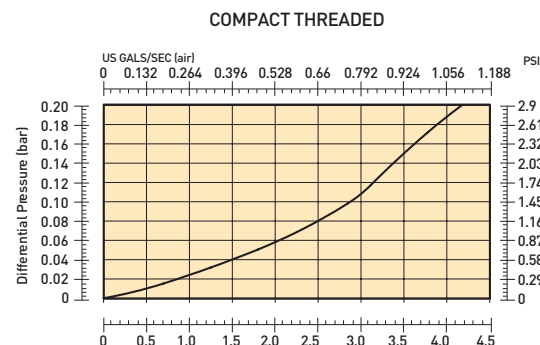
**Operating Temperatures:** -22°F (-30°C) to 195°F (90°C)

**Seals:** Nitrile

**Pressurization Options:** 3 psi (0.2 bar)

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

Anti-Splash  
Design!



#### Compact Threaded (dimensions inches(mm))

Single-Hole Part Number	Micron Rating	Thread	Pressure	A	B	C	D
943296*	10	1/4" NPT	non-pressurized	1.6 (40)	2.2 (57)	.55 (14)	.24 (6)
943298*	10	1/2" NPT	non-pressurized	1.6 (40)	2.4 (60)	.53 (13.5)	.35 (9)
942642*	10	3/4" NPT	non-pressurized	1.6 (40)	2.4 (60)	.55 (14)	.35 (9)
983297	10	3/8" NPT	non-pressurized				

#### Standard Threaded (dimensions inches(mm))

Single-Hole Part Number	Micron Rating	Thread	Pressure	A	B	C	D
AB.98410201.UC	10	3/4" NPT	non-pressurized	4.0 (101)	3.8 (95)	.63 (16)	.39 (10)
AB.98412201.UC	10	3/8" NPT	3 psi (.2 bar)				

#### Dipsticks

Part Number	Description
B68206	Pack of (10) x 7.9"
B68207	Pack of (10) x 15.8"

Drawings are for reference only.  
Contact factory for current version.

# Reservoir Accessories

## Metal Filler Breathers

### Flange Type

#### Specifications

##### Materials:

Cap & Plate: Nickel chrome plated steel

Valve: Nylon/Nitrile

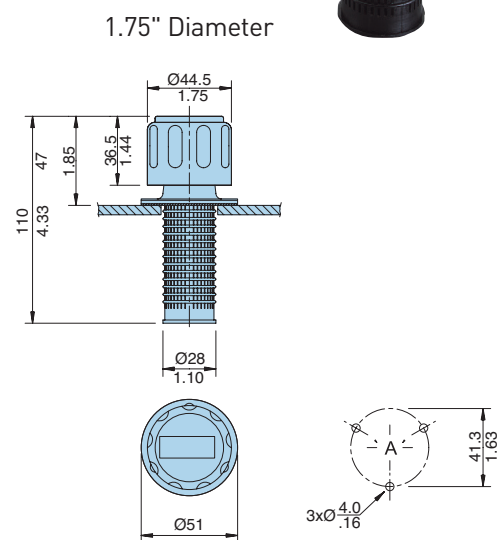
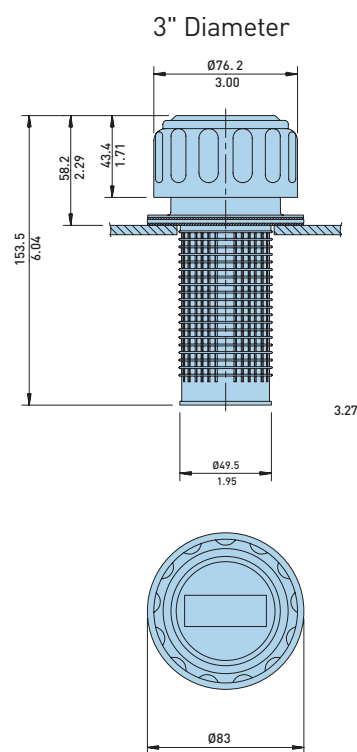
Gasket: Cork

**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 (dimensions inches(mm))

Drawings are for reference only.  
Contact factory for current version.

Part Number	Cap Assembly	Micron Rating	Air Flow	Description	Screws
AB116310	CAP.1163.10	10	2 gal/sec (7.5 l/sec)	3 (76) diameter	(6)-#10x.5
5561	NA	10	2 gal/sec (7.5 l/sec)	3 (76) diameter w/ lock lug	(6)-#10x.5
AB.1380.10	CAP.1380.40	10	1.3 gal/sec (5 l/sec)	1.75 (44.5) diameter	(6)-#10x.5

#### Flange type, Pressurized (dimensions inches(mm))

Part Number	Cap Assembly	Micron Rating	Air Flow	Description	Screws
PAB.1730.10.5	CAP.1730.40.5	10	2 gal/sec (7.5 l/sec)	5 psi (.35 bar), 3" (76mm) diameter	(6)-#10x.5

# Reservoir Accessories

## 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)

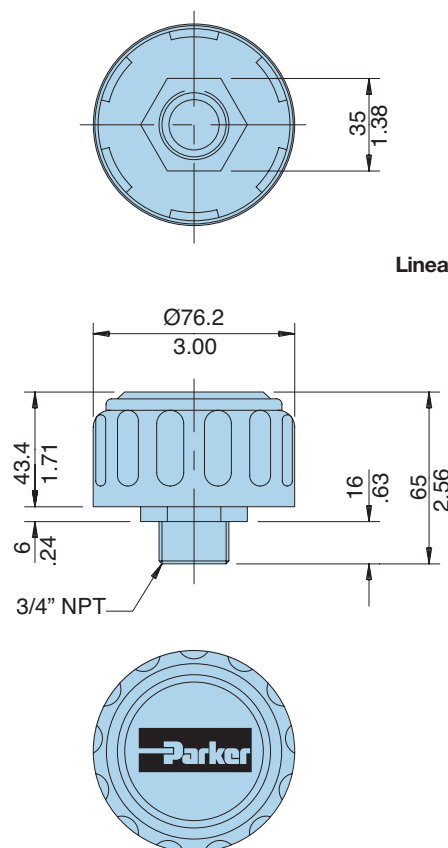
Seals: Nitrile

Pressurization Options: none, 5 psi (0.35 bar)

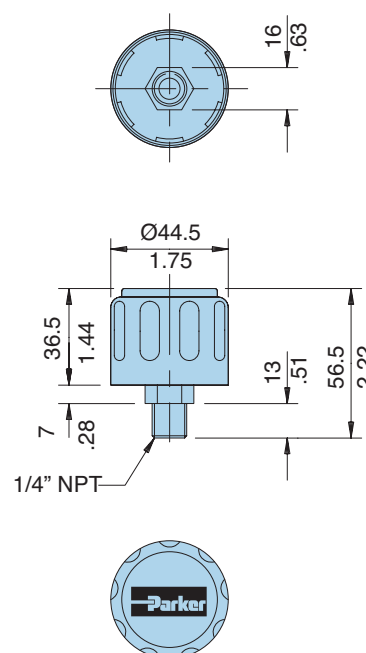


3/4" Threaded

1/4" Threaded



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



Drawings are for reference only.  
Contact factory for current version.

#### Threaded, Non-pressurized (dimensions inches(mm))

Single-Hole Part Number	Micron Rating	Thread	Air Flow	Description
SAB.1562.10.NPT	10	3/4" NPT	1.3 gal/sec. (5 l/sec)	3 (76) diameter
SAB.1563.10.NPT	10	1/4" NPT	0.7 gal/sec. (2.5 l/sec)	1.75 (44.5) diameter

# Reservoir Accessories

## Breathers

### Desiccant Type

#### Specifications

##### Materials:

Casing: Clarified copolymer polypropylene

Cap: Copolymer polypropylene

Stand pipe: PVC

**Filtration Element:** Polyester, silica gel

**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:

934330T 1.25 lbs. (.57 kg) each.

934331T 1.75 lbs. (.79 kg) each.

934332T 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 up-stream 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.

#### 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

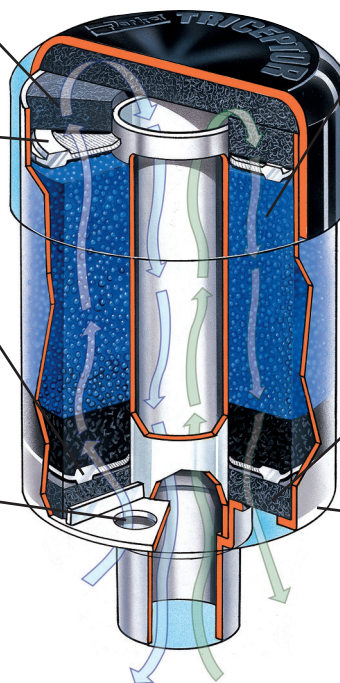
Has the highest removal capability by volume of any adsorption method. Indicates condition by changing color.

#### 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.



# Reservoir Accessories

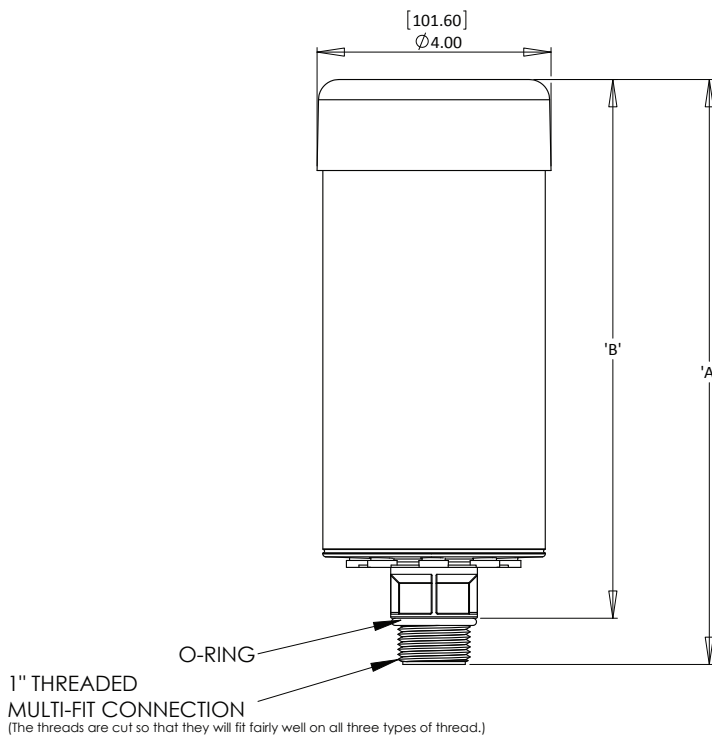
## Breathers

### Installation

TriCeptor breathers are designed for simple installation on most equipment, regardless of mounting connection. Since TriCeptor breathers are disposable, the threaded connection 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. Twist 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.

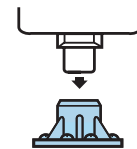
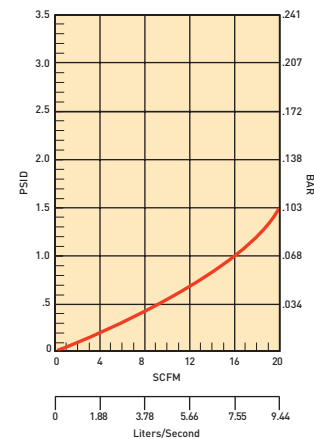
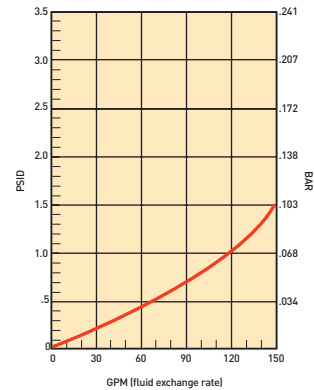


$$\text{Linear Measurement} = \frac{\text{mm}}{\text{in}}$$

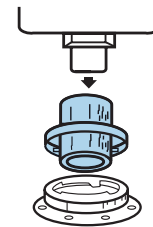
Drawings are for reference only.  
Contact factory for current version.

### 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).



Field Adapter



Flange Adapter

Part Number	'A' (mm/in)	'B' (mm/in)	Quantity
934330T	155.58/6.125	135.256/5.325	6 pcs.
934331T	206.38/8.125	186.06/7.325	6 pcs.
934332T	257.18/10.125	236.86/9.325	6 pcs.
937546	Field Adapter	937546	1 pc.
937463	Flange Adapter	937463	1 pc.

# Reservoir Accessories

## Mobile Triceptor

### New Design in Mobile Triceptor:

Parker's new mobile Triceptor desiccant filter breather incorporates a design that replaces both the spin-on can and the optional check valve adaptor.

Optimized for mobile applications, the mobile Triceptor is equipped to handle high air flow surges as cylinders unload, while providing reliable protection from ingressed contaminants. Controlling rust-forming water vapor and airborne particulates, the breather protects against sludge deposits and water contaminated oil resulting in longer oil and filter life while reducing operating costs.



941655

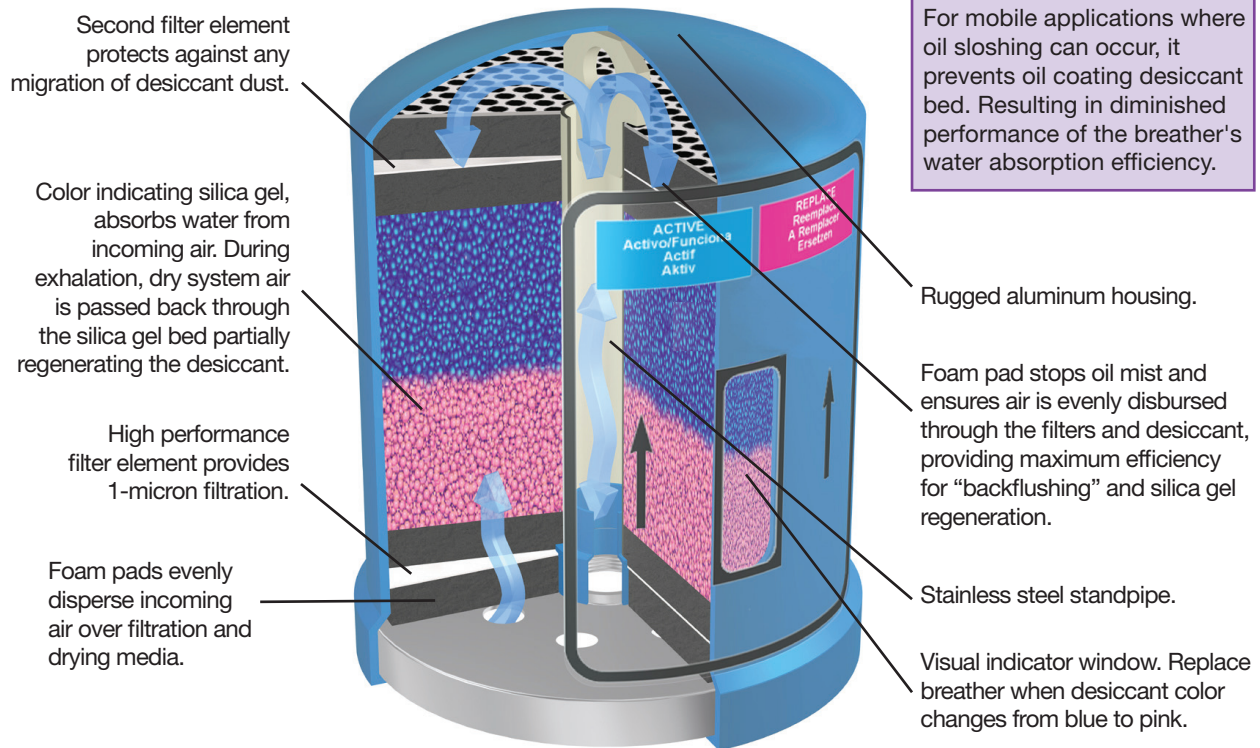


941747

3/4" NPT Vent Valve Adapter

Prolongs breather life by diverting air exhausting from reservoir away from desiccant bed.

For mobile applications where oil sloshing can occur, it prevents oil coating desiccant bed. Resulting in diminished performance of the breather's water absorption efficiency.



\*Patented technology

# Reservoir Accessories

## Mobile Triceptor

### General Data

Amount of Silica Gel	0.79 kg
	1 lb. 12 oz.
Adsorption Capacity	318 mL
	1.34 cups
Net Weight of Unit	1.8 kg
	4 lbs. 3 oz.
Filtration Area	31.1 in <sup>2</sup> / 79 cm <sup>2</sup>
Direction of Flow	Bidirectional
Operating Temperature Range	-20°F to 300°F / -29°C to 148.89°C

### Unit Material Data

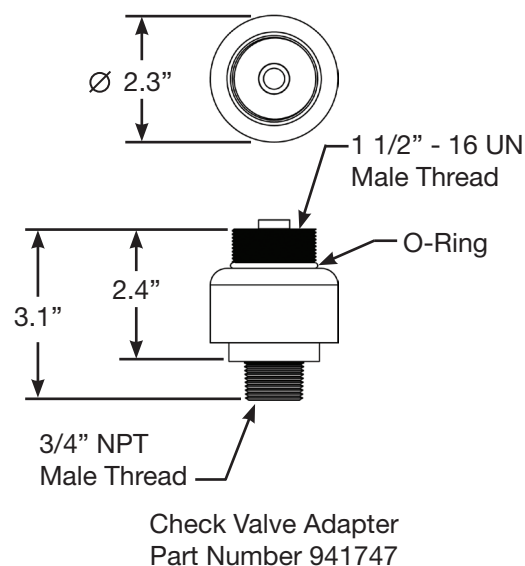
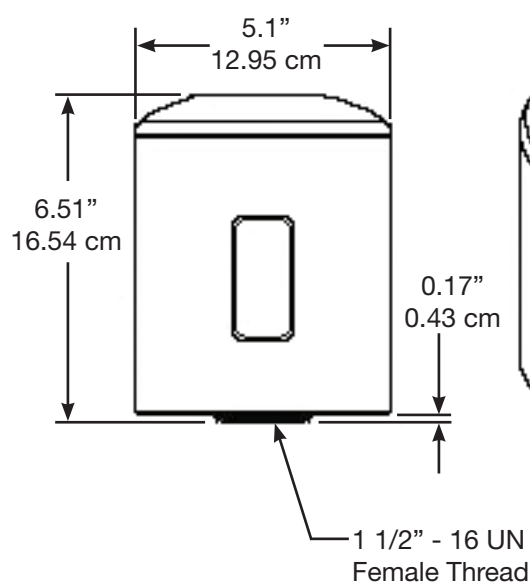
Material	Nylon and MXD6
Maximum Operating Temperature	300°F / 148.89°C
Melting Point	320°F / 160°C
Check Valve Adapter	Zinc Plated Steel

### Filter Media

Material	EPTFE
Porosity	3.5 - 7.5 Ft./min. @ 0.5 in. - H <sub>2</sub> O (ASTM D 737)
	99.97% @ 0.3μ (IES-RP-CC021.1)

### Hygroscopic Agent (Silica Gel)

Apparent Bulk Density	700 - 800 kg/m <sup>3</sup>
Average Particle Diameter	0.145" / 3.68 mm
Specific Heat	0.25 BTU/lb. F
Nominal Mesh Range	4 x 8
Average Crush Strength	35 lbs. / 15.9 kg



Note: Element removal clearance = 1"

# Reservoir Accessories

## 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

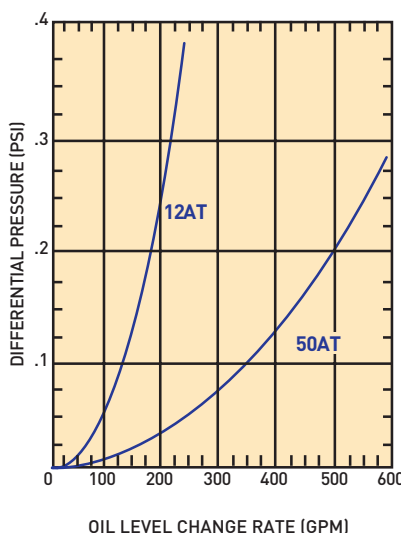
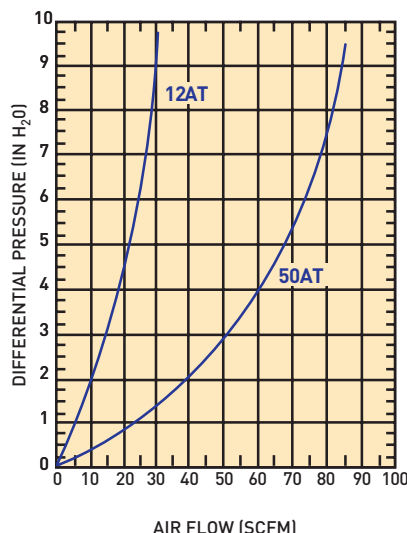
### Sizing

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" H<sub>2</sub>O).

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.

Graphs are for 03C canisters only. Total pressure drop across canister, adaptor, and pipe may be found by adding pressure drops below:

- + 1.5% for each inch of 12AT adapter or 3/4" pipe used.
- + 3.0% for each 3/4" elbow used.
- + 1.0% for each inch of 50AT adapter or 1-1/4" pipe used.
- + 2.0% for each 1-1/4" elbow used.

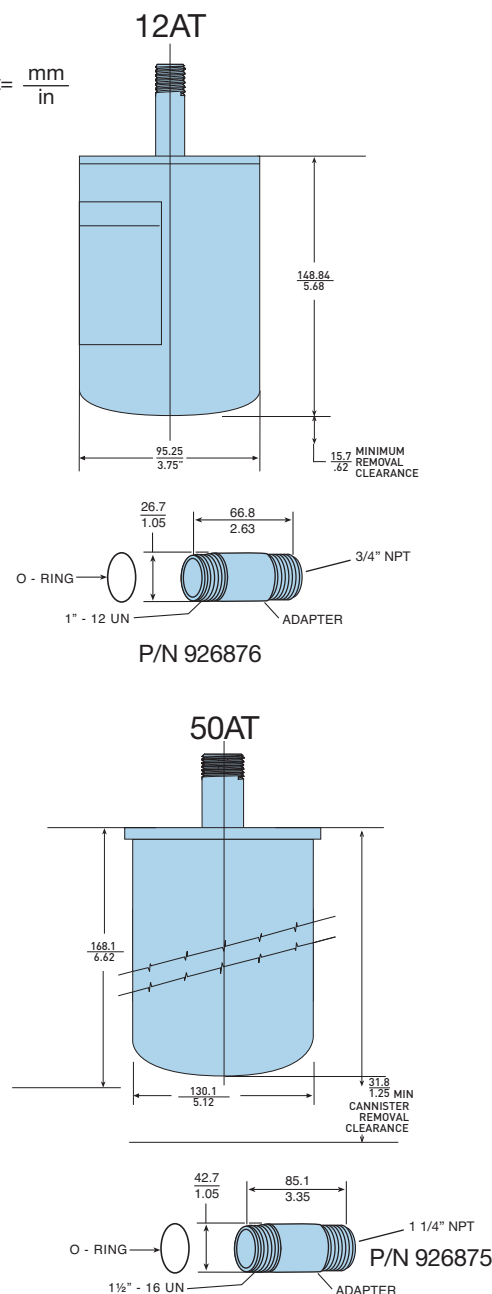


Element	Air Rating*	Diameter	Adapter Kit
926543	1 micron	3.75	926876
921999	2 micron	3.75	926876
925023	5 micron	3.75	926876
926541	1 micron	5.1	926875
926169	2 micron	5.1	926875
926170	5 micron	5.1	926875

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



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



# Reservoir Accessories

## Diffusers

### Specifications

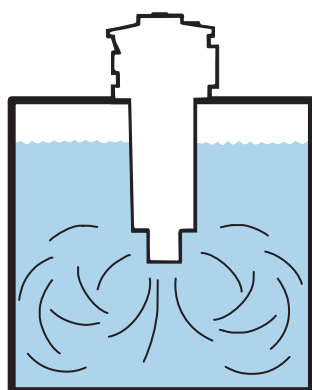
**Operating Temperatures:** 195°F (90°C) maximum

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

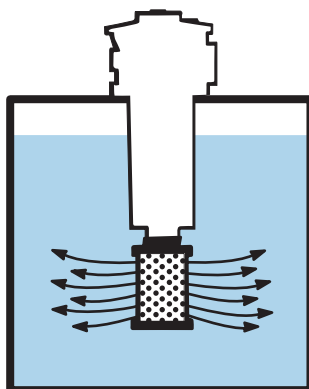
**Weight:** See chart below

### Benefits:

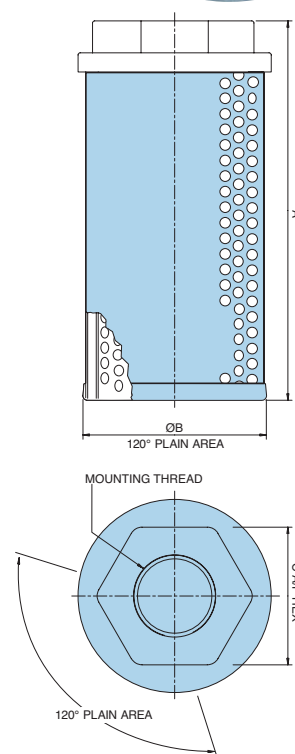
Installing a diffuser in a hydraulic reservoir is a simple change that can make a dramatic difference in system efficiency. With special concentric tubes designed with discharge holes 180° opposed, fluid aeration, foaming and reservoir noise are reduced. Pump life is also extended by reducing cavitation 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)
2250	3/4"	13 (50)	4.7 (120)	2.4 (62)	1.81 (46)	0.60 (0.27)
2251	1"	30 (114)	5.0 (127)	3.4 (86)	2.17 (55)	0.93 (0.42)
2252	1 1/2"	60 (227)	7.0 (178)	3.4 (86)	2.56 (65)	1.23 (0.56)
5563	2"	120 (454)	9.5 (242)	3.4 (86)	2.95 (75)	1.52 (0.69)

# Reservoir Accessories

## 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)

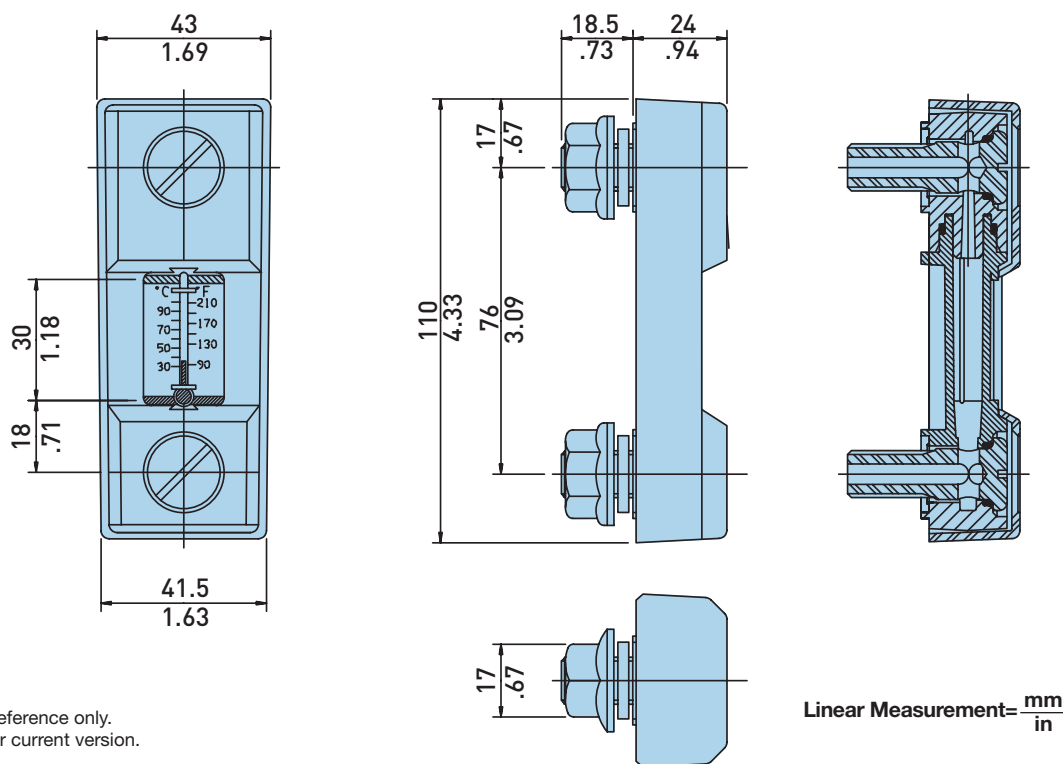
**Indicator:** Blue alcohol

**Fluid Compatibility:** Mineral and petroleum based fluids

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



### Length 3



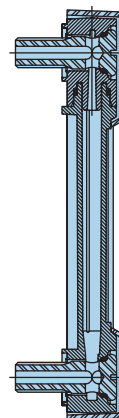
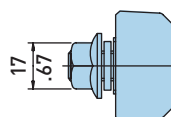
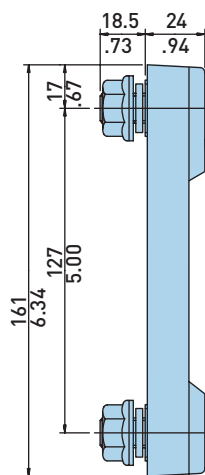
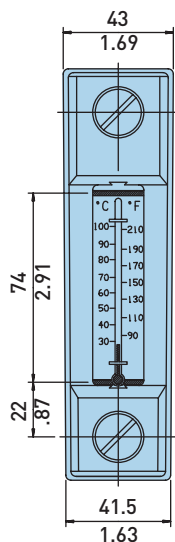
Drawings are for reference only.  
Contact factory for current version.

Part Number	Thread	Length	Description
FL69121	M10	3	Fluid level and temperature
FL69221	M10	5	Fluid level and temperature
FL69321	M10	10	Fluid level and temperature

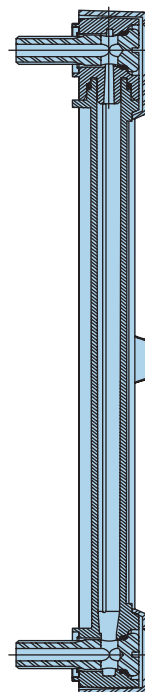
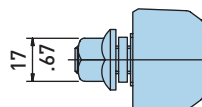
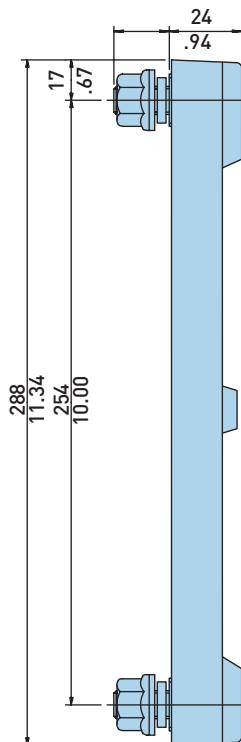
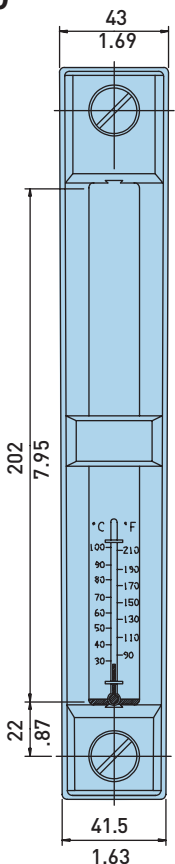
# Reservoir Accessories

## Fluid Level/Temperature Gauges

### Length 5



### Length 10



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

Drawings are for reference only.  
Contact factory for current version.

# Reservoir Accessories

## Suction Strainers

### Specifications

#### Materials:

Media: Stainless steel

Tube and endcap: Zintec

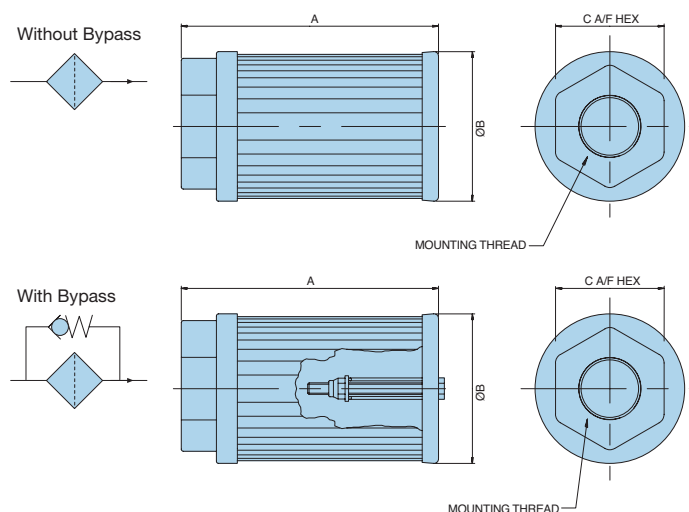
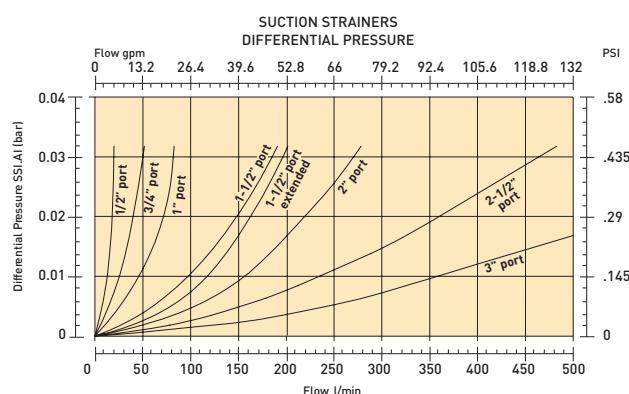
Head: glass filled nylon

**Filtration Element:** 100 mesh (149 micron)

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

**Bypass:** None, 3 psi (0.2 bar)

**Weight:** See chart below



Part Number With Bypass	Bypass	Port (NPT)	Nominal Flow GPM (LPM)	Length "A" Inch (mm)	Diameter "B" Inch (mm)	BSPP Fitting
937480	No	1/2"	5 (19)	4.125 (104.8)	1.90 (48.3)	No
937481	Yes	1/2"	5 (19)	4.125 (104.8)	1.90 (48.3)	No
937482	No	3/4"	8 (30)	3.55 (90.2)	2.67 (67.8)	No
937483	Yes	3/4"	8 (30)	3.55 (90.2)	2.67 (67.8)	No
937484	No	1"	10 (38)	5.25 (133.4)	2.67 (67.8)	No
937485	Yes	1"	10 (38)	5.25 (133.4)	2.67 (67.8)	No
937488	No	1-1/2"	30 (114)	8.01 (203.5)	3.47 (88.4)	No
937489	Yes	1-1/2"	30 (114)	8.01 (203.5)	3.47 (88.4)	No
937490	No	1-1/2"	50 (189)	9.85 (250.2)	4.00 (101.6)	No
937491	Yes	1-1/2"	50 (189)	9.85 (250.2)	4.00 (101.6)	No
937492	No	2"	50 (189)	9.85 (250.2)	4.00 (101.6)	No
937493	Yes	2"	50 (189)	9.85 (250.2)	4.00 (101.6)	No
937494	No	2-1/2"	75 (284)	10.10 (256.5)	5.17 (131.3)	No
937495	Yes	2-1/2"	75 (284)	10.10 (256.5)	5.17 (131.3)	No
937496	No	3"	100 (378)	11.50 (292.1)	5.17 (131.3)	No
937497	Yes	3"	100 (378)	11.50 (292.1)	5.17 (131.3)	No

# Reservoir Accessories

## Magnetic Suction Strainers

### Magnetic Suction Strainers

#### Dual protection, without cavitation!

Parker's new magnetic suction strainers offer dual protection to the pump inlet without risk of cavitation.

Powerful ceramic magnets located parallel to the pleated mesh attract and protect against damaging ferrous particles of all sizes.

The pleated stainless steel screen provides additional filtration protection for larger particles that would result in catastrophic failure.

The generous open area of the stainless steel pleated mesh screen eliminates the possibility of pump cavitation.

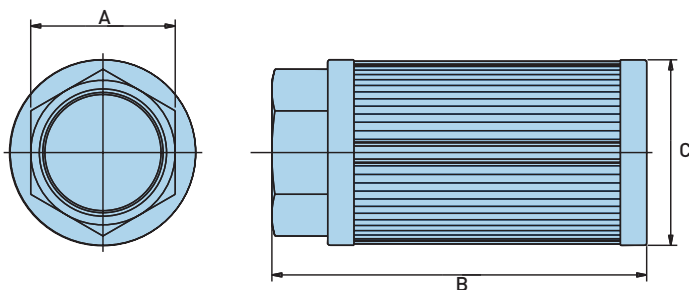
#### Ordering Information

The information below shows the part numbers, specifications and dimensions of available suction strainers, to help you meet the needs of your specific application.

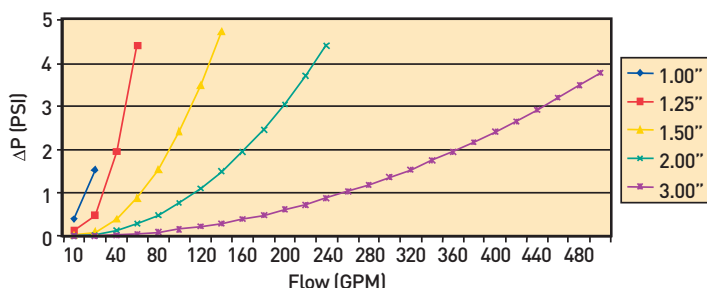
NOTE: All sizes are standard with 30 mesh screen (560 micron).

Part Number	NPT Connection	Flow GPM (LPM)	Dimensions			Approx. Shipping Weight lbs. (kg)
			A inches (mm)	B inches (mm)	C inches (mm)	
936547	1.00"	15 (55)	1.88 (47.75)	5.19 (131.83)	3.09 (78.49)	1.59 (0.72)
936548	1.25"	25 (95)	2.38 (60.45)	7.39 (187.71)	3.53 (89.66)	3.16 (1.43)
936549	1.50"	35 (135)	2.38 (60.45)	7.39 (187.71)	3.53 (89.66)	2.88 (1.31)
936550	2.00"	50 (190)	2.75 (69.85)	7.39 (187.71)	3.53 (89.66)	2.22 (1.01)
936551	3.00"	100 (380)	*	9.35 (237.49)	4.47 (113.54)	3.91 (1.77)

\*Part number 936551 features a 3" half coupling, not a hex nut.



Flow Vs. Pressure Loss



Parker's magnetic suction strainers are available in sizes ranging from one to three inches.



The rugged steel construction, combined with the generous filtration area, ensures reliable performance for suction applications.