



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

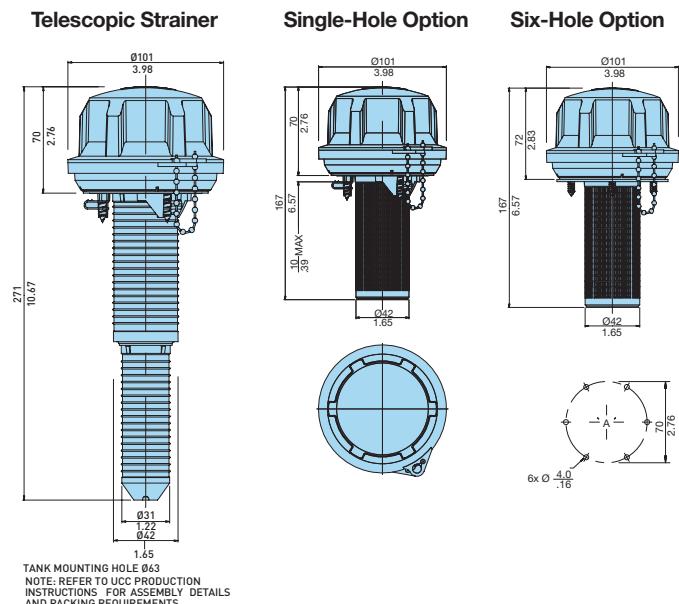
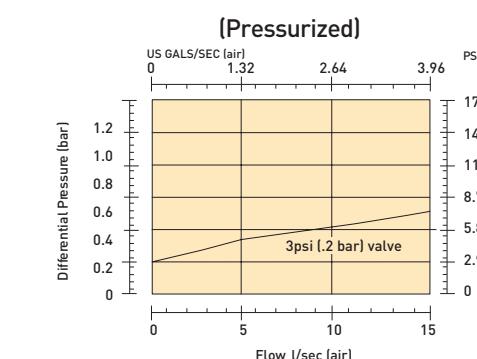
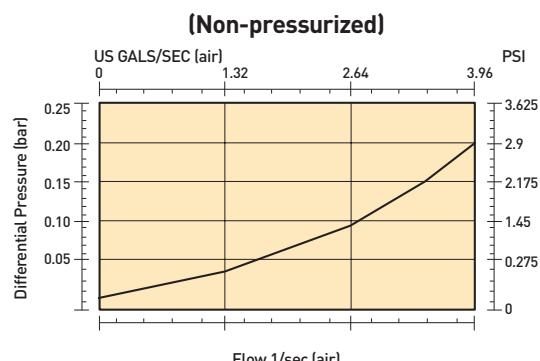
Filtration Element: Expanded polyurethane foam, 10 micron

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



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"

Anti-Splash Design



*Mounting screws for six-hole only

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

Reservoir Accessories

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

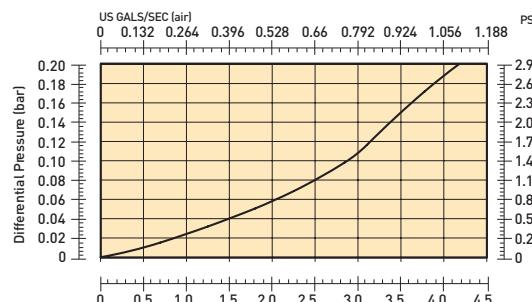
Pressurization Options: 3 psi (0.2 bar)

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

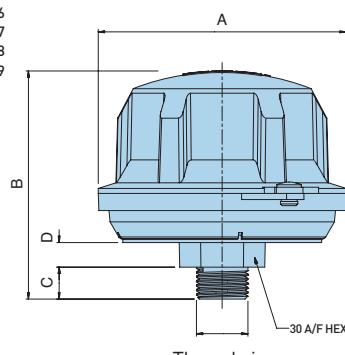
Anti-Splash Design



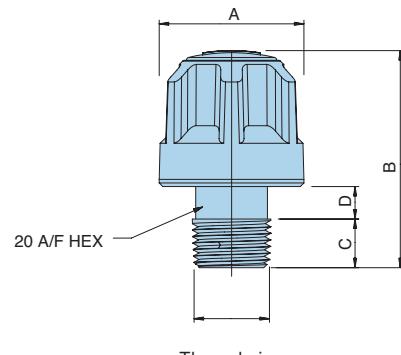
COMPACT THREADED



Standard Threaded



Compact Threaded



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)
943297	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	3/4" NPT	3 psi (.2 bar)				

Dipsticks

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

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Reservoir Accessories

Metal Filler Breathers

Flange Type

Specifications

Materials:

Cap & Plate: Nickel chrome plated steel
Valve: Nylon/Nitrile

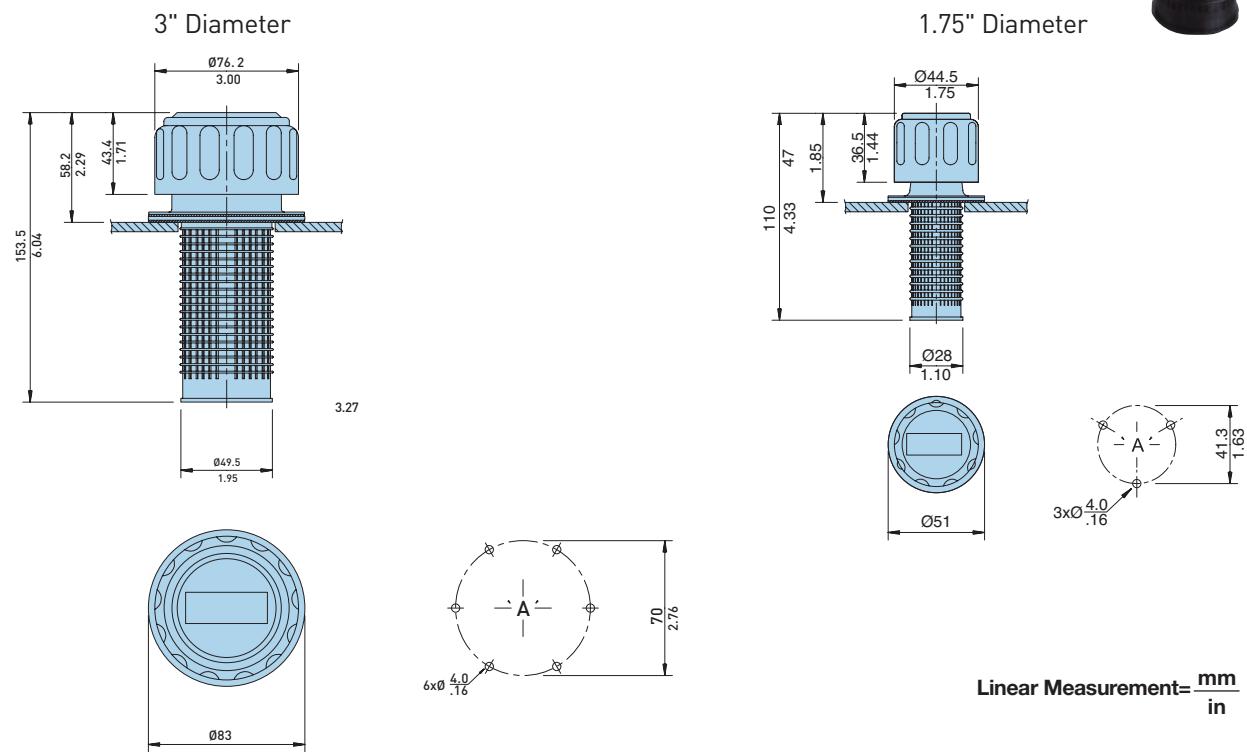
Gasket: Cork

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)



Flange type, Non-pressurized (dimensions inches(mm))

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

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

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

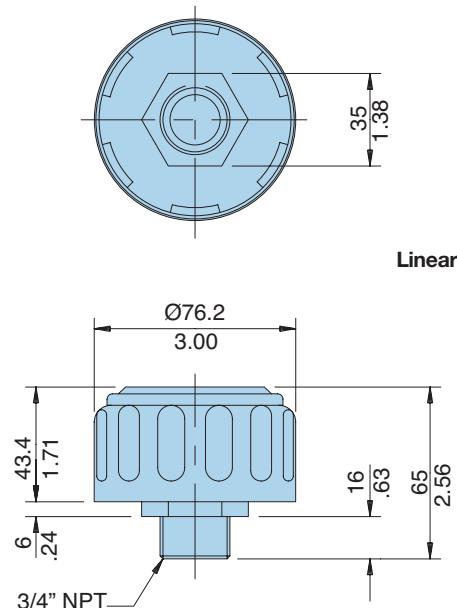
Operating Temperatures: -22°F (-30°C) to 195°F (90°C)

Seals: Nitrile

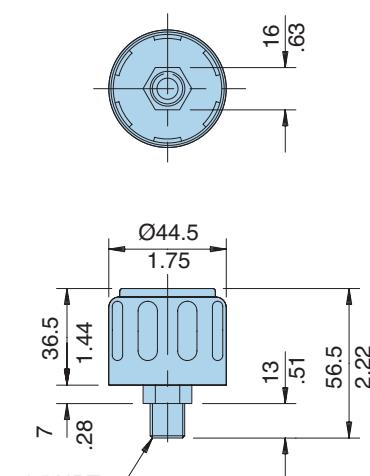
Pressurization Options: none, 5 psi (0.35 bar)



3/4" Threaded



1/4" Threaded



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

E Z Dri Breathers

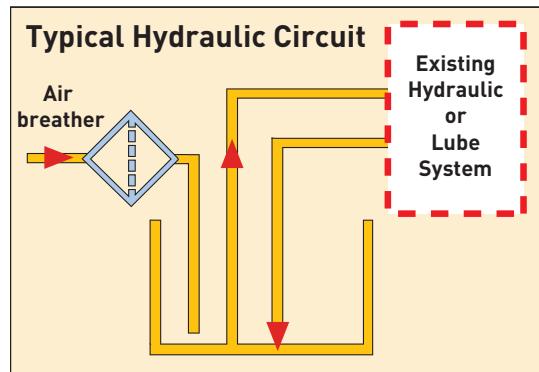
Applications

- Reservoirs
- Mobile Equipment
- Small Gearboxes
- Transformers
- Storage Tanks
- Totes
- 55 Gallon Drums



Atmospheric ingress of air borne contaminants are key contributors to hydraulic, circulating oil and splash lubrication systems. As temperature fluctuates or fluids are displaced, systems draw air into the fluid reservoir. The reservoir breather becomes a critical barrier to solid contaminants and water vapor. Conversely, when fluids return to the fluid reservoir, air exhausts to the environment.

E Z Dri breathers provide contamination control in these critical areas. Water vapor is captured through the use of highly efficient zeolite desiccant. Solid contaminants are removed to 3μ through a series of high efficiency particulate filters. The production environment and plant personnel are safe from hydrocarbon vapors, during air exhaust, with the aid of an activated carbon filter.



Features

- ZEOLITE adsorbent maximizes water adsorption capacity, less than 100 ppm H₂O
- Optimal flow via diffusion filters
- Multi-layer filtration - (2) diffusion filters, activated carbon, 3μ PTFE filter, 100μ stainless steel filter
- ZEOLITE thermal efficiency (efficient at all temps.)
- Diffusion cap - replaces use of valves to control air flow, allows for long term storage
- Flexibility - 1" slip fit adapters
- UV resistant to prevent discoloring
- Oil Mist Coalescer Manifold Adapter (OMCOL)
- Easy visible color indication of spent adsorbent

Bi-directional Air Flow

Air entering the breather is filtered and dried. Air expelled through the breather is filter through an activated carbon filter, prolonging the life of the breather.

Rugged construction

E Z Dri breathers are made of hard PVC plastic and UV resistant polycarbonate tube.

ZEOLITE adsorbent

ZEOLITE adsorbent provides up to 28% by weight adsorption and provides clean dry air less than 100 PPM. ZEOLITE also maintains performance in high temperature environments, unlike Silica Gel.

Multi-layer filtration

All E Z Dri breathers features (2) diffusion filters, an activated carbon filter, 3μ PTFE filter, and 100μ stainless steel filter

Diffusion technology

The diffusion cap replaces the need for mechanical valves to control air flow. The breathers will only breathe over 0.3 PSI

Application flexibility

E Z Dri breathers feature a standard 1" slip fit which easily adapts to many applications.

Color Indication

When maximum adsorption is reached, the blue indicating ZEOLITE beads will turn from blue to beige, to indicate that a replacement is required.

Reservoir Accessories

Specifications

General Data

	934330	934331	934332	941655
Amount of ZEOLITE	376 g	604 g	822 g	722 g
	16.3 oz	21.3 oz	28.9 oz	25.5 g
Adsorption Capacity	52.6 g	84.6 g	115.1 g	101.1 g
	1.86 oz	2.98 oz	4.06 oz	3.57 oz
Net Weight of Unit	700 g	980 g	1255 g	1294 g
	1.5 lbs	2.2 lbs	2.7 lbs	2.85 lbs
Filtration Area	8.4 in ² / 54.2 cm ²			
Direction of Flow	Bidirectional	Bidirectional	Bidirectional	Bidirectional
Operating Temperature Range	-40°F to 302°F / -40°C to 150°C			

Hygroscopic Agent (Zeolite)

Apparent Bulk Density	700 - 800 kg/m ³
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

Unit Material Data

Material	UV Resistant Polycarbonate
Maximum Operating Temperature	302°F / 150°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 ₂ O (ASTM D 737)
Air Filtration Efficiency	99.97% @ 0.3μ (IES-RP-CC021.1)

E Z Dri Breathers

Desiccant Type

Specifications

Materials:

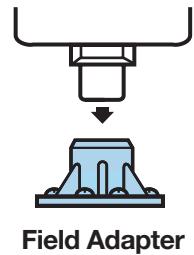
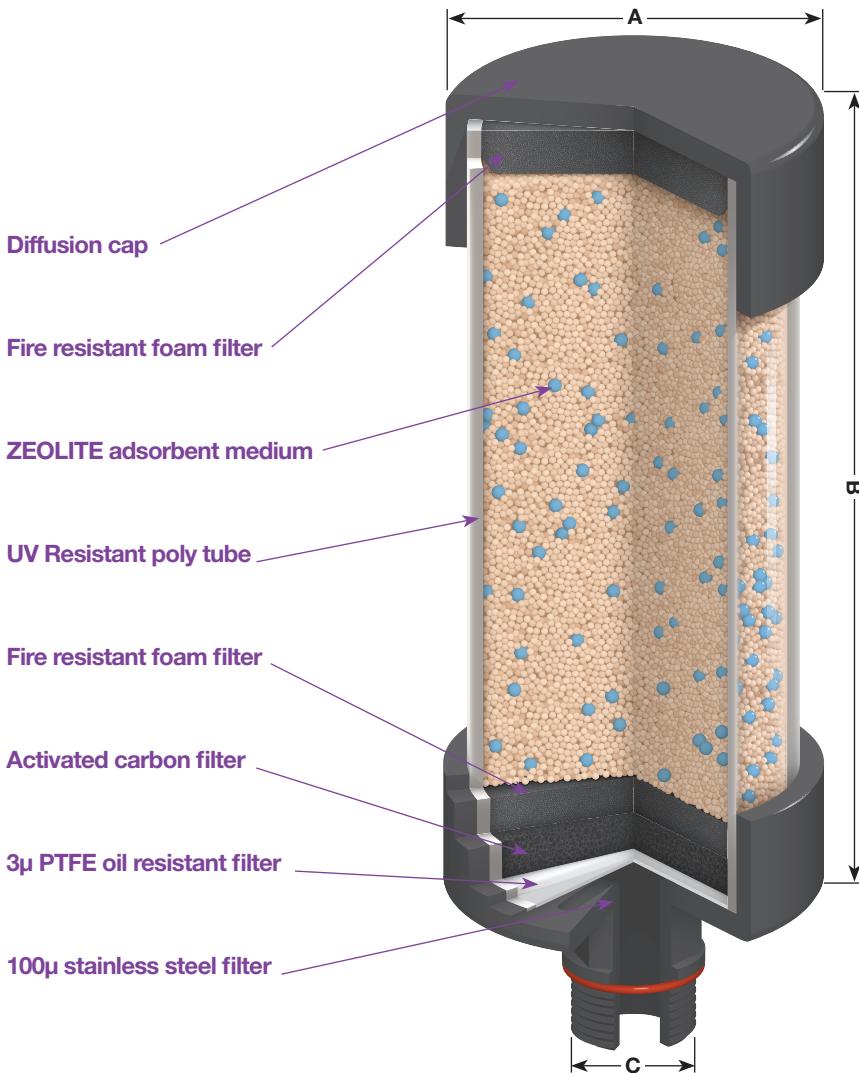
Casing: PVC plastic

Stand pipe: UV resistant polycarbonate tube

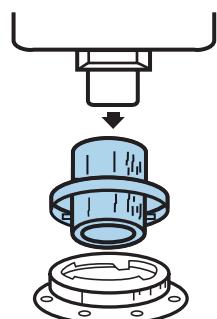
Multi-layer Filtration: 2 diffusion filters, activated carbon filter, 3 μ PTFE filter, 100 μ stainless steel filter

Operating Temperatures: -40°F (-40°C) to 302°F (150°C)

Seals: None



Field Adapter



Flange Adapter

Part Number	A (in/mm)	B (in/mm)	C	Qty
934330	3.87 / 98.3	5 / 127	1" NPT thread	6 pcs
934331	3.87 / 8.3	7 / 177.8	1" NPT thread	6 pcs
934332	3.87 / 98.3	9 / 228.6	1" NPT thread	6 pcs

Part Number	Description	Qty
937546	Field Adapter	1 pc
937463	Flange Adapter	1 pc

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

Reservoir Accessories

Mobile Version

Specifications

Materials:

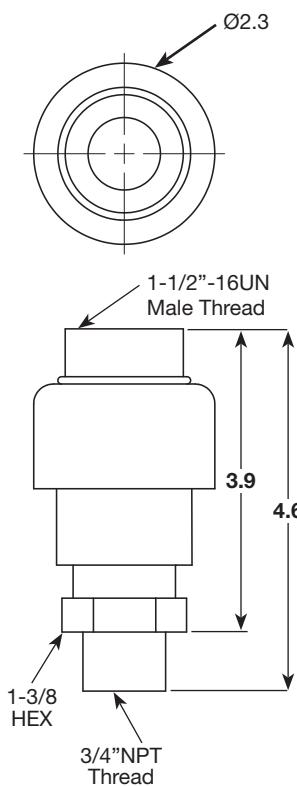
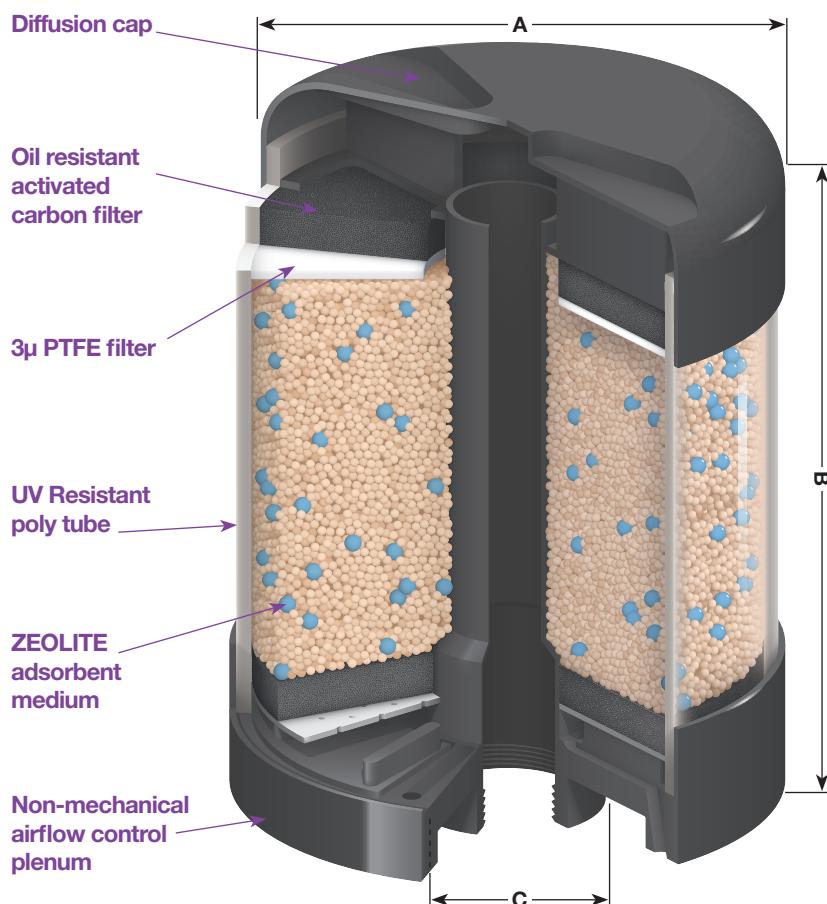
Casing: PVC plastic

Stand pipe: UV resistant polycarbonate tube

Multi-layer Filtration: 2 diffusion filters, activated carbon filter, 3 μ PTFE filter, 100 μ stainless steel filter

Operating Temperatures: -40°F (-40°C) to 302°F (150°C)

Seals: None



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.

Part Number	A (in/mm)	B (in/mm)	C	Qty
941655	5.25 / 133.4	6.17 / 156.7	1.5" NPT thread	1 pc*

* Must be ordered in multiples of six (6).

Part Number	Description	Qty
946056	Vent Valve Adapter	1 pc

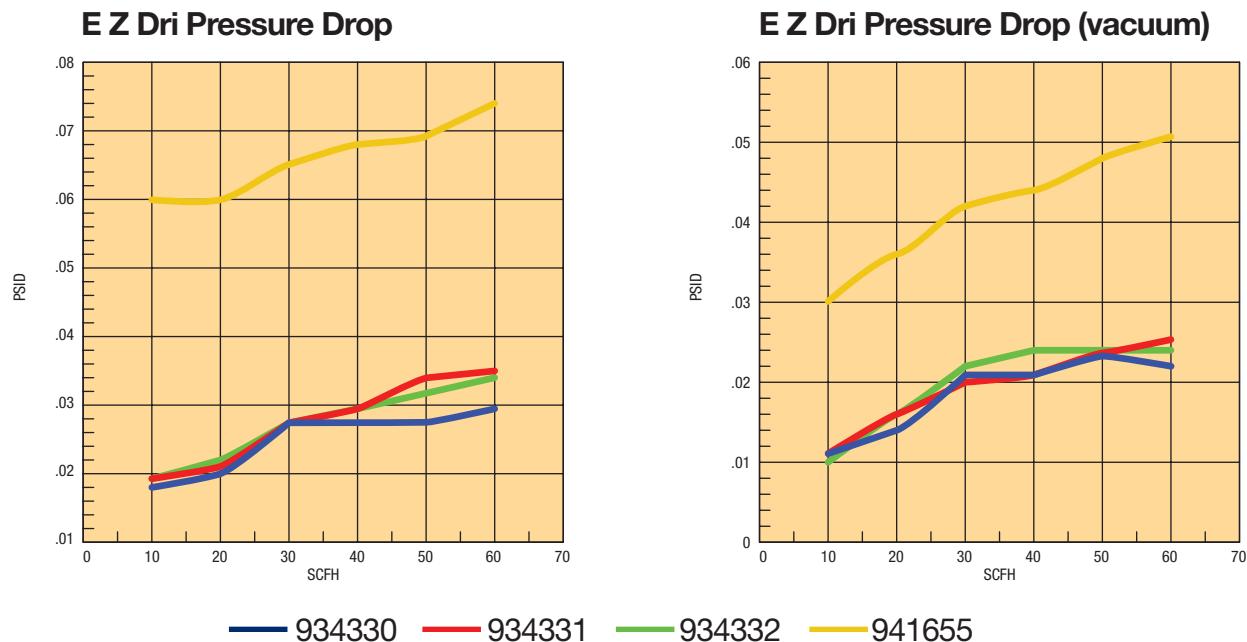
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Reservoir Accessories

Performance

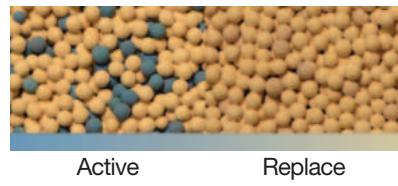
Air Flow Performance

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



Maintenance

E Z Dri breathers are designed for simple installation on most equipment, regardless of mounting connection. Since E Z Dri breathers are disposable, the threaded connection allows for quick and easy maintenance. Several mounting adapters (see page 4) are available to provide the desired mounting. The installation/replacement process consists of three easy steps:



Installation

1. Remove breather from plastic bag
2. Remove safety cap from standpipe at the bottom of the breather
3. Mount the breather to the tank or reservoir using the adapter best suited for the application

Disposal

1. Verify that the breather is fully saturated – *all blue beads will be beige in color
2. Remove breather from gearbox, tank, reservoir, or other application
3. Remove and save the adapter fitting to be used with a new breather
4. Verify and dispose of breather in accordance with your state and local environmental control regulations

Recommendations

1. Replace spin on air filter vents, turn down pipes, or vent caps with E Z Dri disposable desiccant breathers for additional protection against contaminants.
2. Inspecting your breather every 6 months.
3. Add breather replacements to plant operations & maintenance schedules

Reservoir Accessories

Breathers - Spin-On Type

Reservoir Breather

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).

A pipe flange, weld collar, etc. may be used to connect the adapter kit to the reservoir. Make sure that air is not able to leak around the adapter. When mounting on the side of the reservoir, make sure the installation is above the surface of the fluid.

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.

Model	Air Rating*	Canister	Adapter Kit
12AT-03C	1 micron	926543	926876
12AT-10C	2 micron	921999	926876
12AT-25C	5 micron	925023	926876
50AT-03C	1 micron	926541	926875
50AT-10C	2 micron	926169	926875
50AT-25C	5 micron	926170	926875

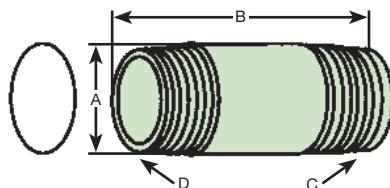
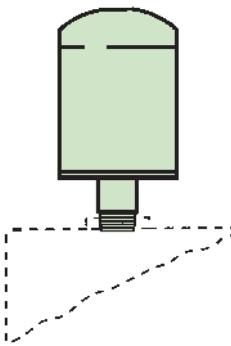
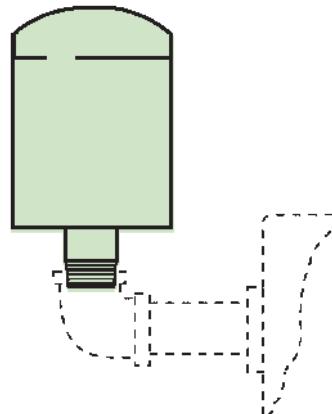
* 99% Removal efficiency for particles larger than the stated size in air.

Graphs are for 03C canisters only. Total pressure drop across canister, adapter, 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.



Typical Installations mounted on side or top of reservoir



	12AT	50AT
PN	926876	926875
A	26.70 (1.05)	42.70 (1.66)
B	66.80 (2.63)	85.10 (3.35)
C	3/4" NPT	1-1/4" NPT
D	1"-12 UN	1-1/2"-16 UN

Allow 1.25" for canister removal clearance

Linear Measure: $\frac{\text{millimeter}}{\text{inch}}$

Reservoir Accessories

Diffusers

Specifications

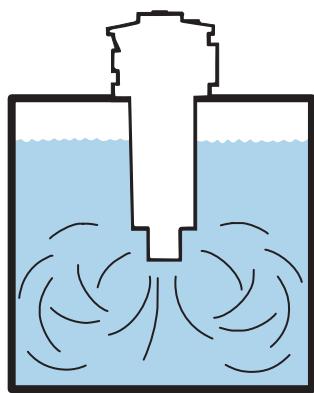
Operating Temperatures: 195°F (90°C) maximum

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

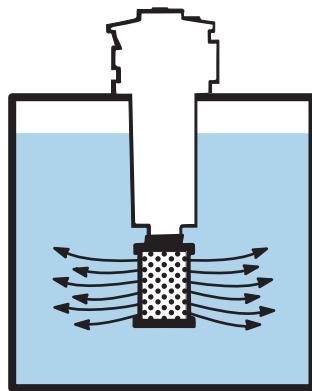
Weight: See chart below

Benefits:

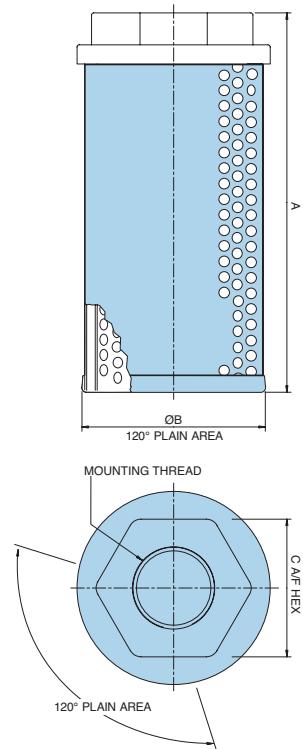
Installing a diffuser in a hydraulic reservoir is a simple change that can make a dramatic difference in system efficiency. With special concentric tubes designed with discharge holes 180° opposed, fluid aeration, foaming and reservoir noise are reduced. Pump life is also extended by reducing cavitation 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)
2253	2"	120 (454)	9.5 (242)	3.4 (86)	2.95 (75)	1.52 (0.69)

Reservoir Accessories

Fluid Level/Temperature Gauges

Specifications

Materials:

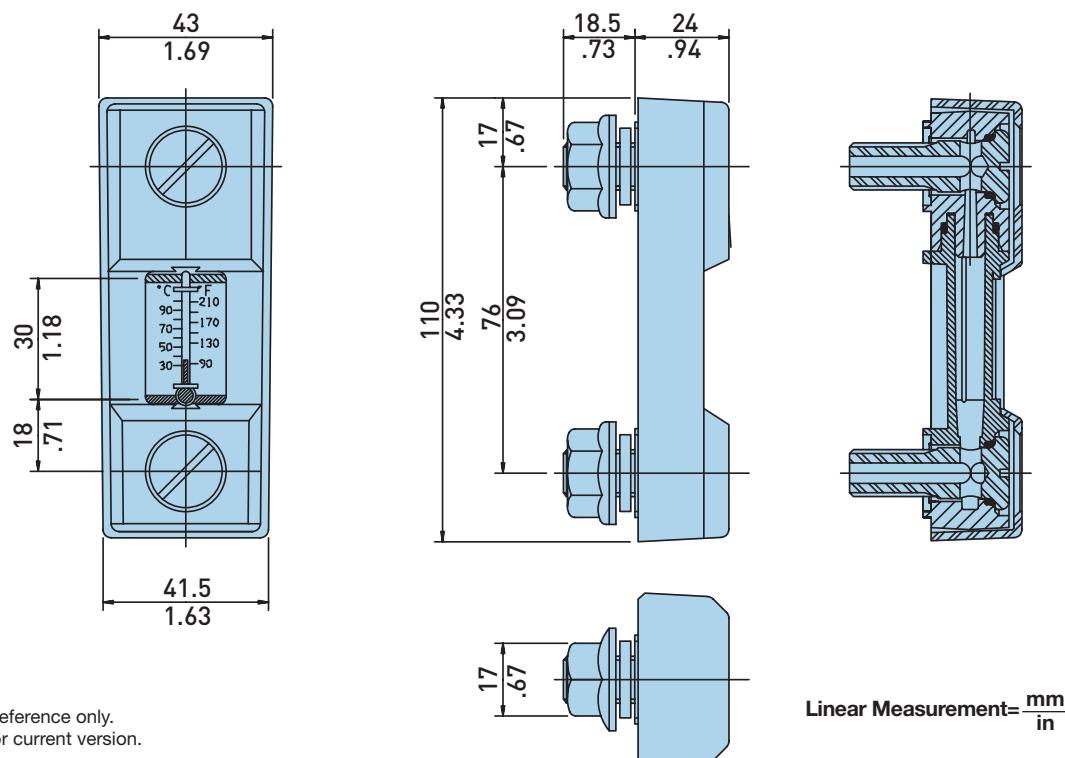
Lens: Transparent polyamide

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

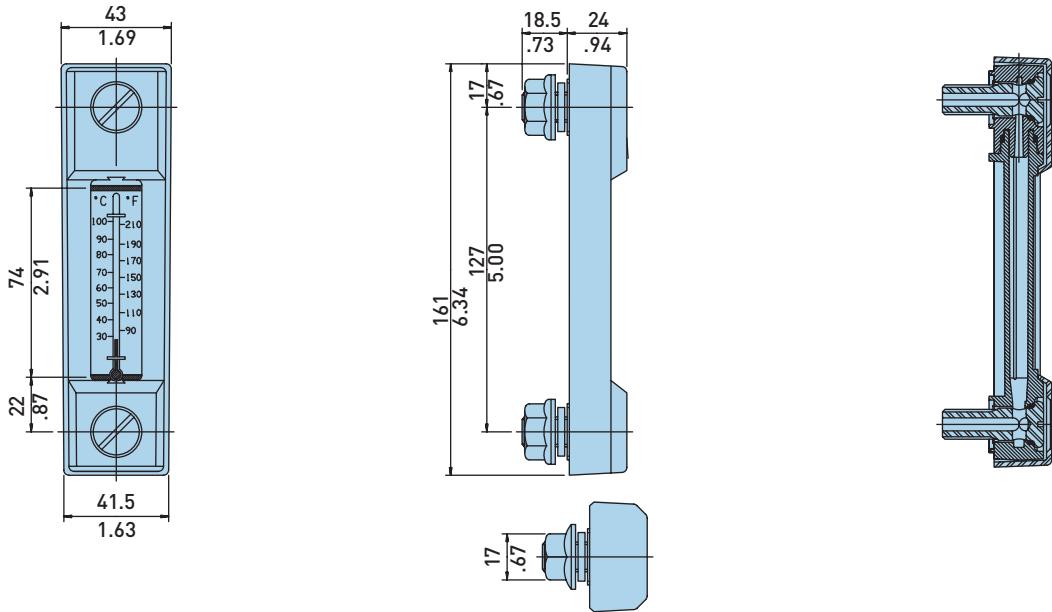


Part Number	Thread	Length	Description
FL69121	M10	3	Fluid level and temperature
FL69221	M10	5	Fluid level and temperature
FL69321	M10	10	Fluid level and temperature

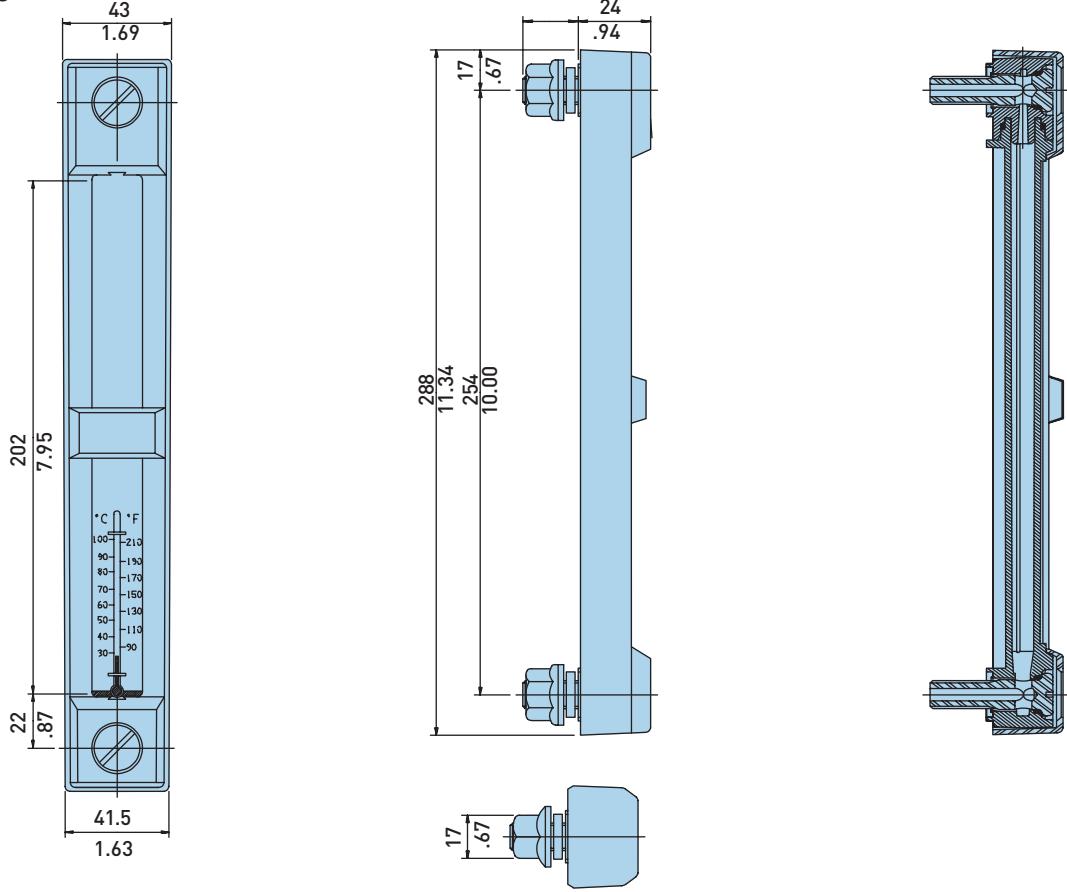
Reservoir Accessories

Fluid Level/Temperature Gauges

Length 5



Length 10



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

Drawings are for reference only.
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Reservoir Accessories

Suction Strainers

Specifications

Materials:

Media: Stainless steel

Tube and endcap: Zintec

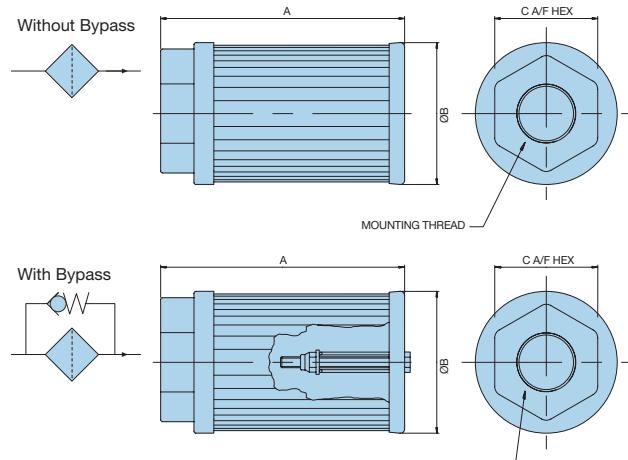
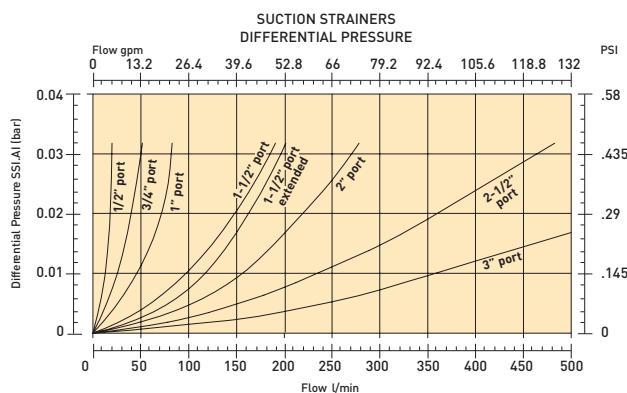
Head: glass filled nylon

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.

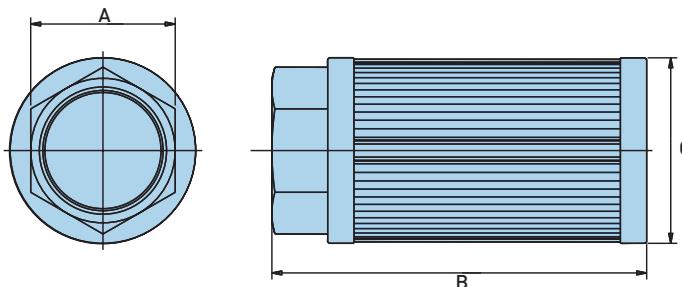
Ordering Information

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

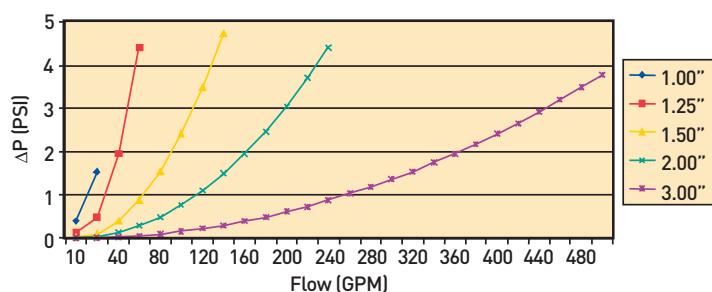
NOTE: All sizes are standard with 30 mesh screen (560 micron).

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