Schroeder INDUSTRIES
Advanced Fluid Conditioning Solutions®
Proudly Manufactured In The United States

HYDRAULIC ACCESSORIES

Products Catalog

Plastic Reservoirs (and Tank Straps)

ISO Clean Tank Assemblies

Oil Sight Glasses

Indicators

Complete Tank Assembly Solutions

Test Points & Equipment

Air & Desiccant Filter Breathers

Vision Mission Value Quality Statement:

Vision:

We design solutions for industry and for the success of our customers by:

- Optimizing the use of technology with applications
- Using an efficient, timely customized process to fill specific customer needs
- Increasing capacity and streamlining operations
- Preserving our reputation for reliability
- Expanding globally to support our customers and stay current with new technologies
- Leveraging and sharing our knowledge to meet challenges openly
- Nurturing a creative, cooperative culture committed to the individual and to providing the best solutions for the customers

Leetsdale Facility

Mission Statement:

Partnerships

Innovating products, processes and services to improve performance and efficiency in our industry.

Schroeder Industries Core | Shared Values:

Honesty

Day-to-Day Behaviors:

- Tell the truth at all times, in all matters
- Have open lines of communication and share timely, accurate and thorough information with internal and external customers
- Do not steal and respect each other's and the Company's property

Teamwork

Day-to-Day Behaviors:

- Work as a team
- Cooperate within and between departments
- Coach and mentor; listen and share knowledge, experience and ideas
- Treat others with respect and consideration in all circumstances
- Invest in the development and growth of all team members
- Keep our work areas safe and clean

Leadership

Day-to-Day Behaviors:

- Recognize that we are empowered to act as leaders and participate in the decision making process
- Take responsibility for and have pride in our work
- Set goals and celebrate the efforts and accomplishments of our teammates
- Value our greater community and take leadership roles in our neighborhoods and for the environment

Ingenuity | Innovation

Day-to-Day Behaviors:

- Value innovative thinking and the generation and implementation of new ideas to solve customer (internal & external) problems
- Be flexible and adapt to new ideas and different ways of doing things
- Utilize available resources for new designs and innovations

Quality Policy:

Continuous improvement in our business to ensure a quality product, shipped on time, without compromise.

Limitations of Liability

The information contained in the catalog (including, but not limited to, specifications, configurations, drawings, photographs, dimensions and packaging) is for descriptive purposes only. Any description of the products contained in this catalog is for the sole purpose of identifying the products and shall not be deemed a warranty that the products shall conform to such description. No representation or warranty is made concerning the information contained in this catalog as to the accuracy or completeness of such information. Schroeder Industries LLC reserves the right to make changes to the products included in this catalog without notice. A copy of our warranty terms and other conditions of sale are available upon request. A placed order constitutes acceptance of Schroeder's terms and conditions.

Failure, improper selection or improper use of the products and/or systems described herein or related items can cause death, personal injury and property damage.

This catalog and other documentation from Schroeder Industries provides product information for consideration by users possessing technical expertise.

It is important that the user analyze all aspects of the specific application and review the current product information in the current catalog. Due to the variety of operating conditions and applications for these products, the user is solely responsible for making the final product selection and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, design, availability and pricing are subject to change at any time without notice.

Contents at a Glance

Corporate Overview

Schroeder Industries, an ISO 9001:2015 certified company, focuses on developing filtration and fluid service products for our customers in the fluid power industry and is proud of our proven track record of providing quality products over the last sixty years. The designs you see in this catalog are the result of thousands of hours of field testing and laboratory research... and decades of experience.

Schroeder INDUSTRIES
Advanced Fluid Conditioning Solutions®
PROUDLY MANUFACTURED IN THE UNITED STATES

Schroeder was one of the first companies to demonstrate the need for, and benefits of, hydraulic filtration. We pioneered the development of micronic filtration, helping to set performance standards in industrial fluid power systems. As a result, Schroeder is now a leader in filtration and fluid conditioning—and the proof of our expertise lies in our broad mix of unsurpassed products. Our mission statement reflects our continuing commitment to excellence:

Partnerships

Innovating products, solutions, processes and services to improve performance and efficiency in industry.

We design solutions for industry and for the success of our customers by:

- Optimizing the use of technology with applications
- Using an efficient, timely customization process to fill specific customer needs
- Increasing manufacturing capacity and streamlining operations
- Preserving our reputation for reliability
- Expanding globally to support our customers and stay current with new technologies
- Leveraging and sharing our knowledge to meet challenges openly
- Nurturing a creative, cooperative culture committed to the individual and to providing the best solutions for our customers

Our goal is to be your filtration partner. Our expertise in filtration technology, our superior filter and element manufacturing capabilities, and our dedication to customer service and product support are the reasons we're considered experts in Advanced Fluid Conditioning Solutions®.

We are committed to providing the best available filter products to meet necessary cleanliness levels at a competitive price. As a cost-effective quality producer, we can work with your purchasing department to supply contamination control technology or develop long-range pricing programs that can improve your company's bottom line.

Visit Us Online...

Schroeder's web site, **www.schroederindustries.com**, is filled with helpful resources.

Replacing filter elements is simpler than ever before with our Online Cross-Reference Guide to Bestfit® replacement elements. With this user-friendly guide you can match 41,000 filter elements from 150 other manufacturers with appropriate Bestfit® replacements. Click the BestFit® link on our home page or got to the direct link at www.schroederindustries.info.

Corporate Overview

Product Distribution

Schroeder Industries has in place a strategically located international distribution network, supported by our professional and experienced sales and marketing team. Distributor personnel are trained in the important aspects of filter application by Schroeder in training sessions held at our factory and around the globe. The effectiveness of our product and service support is multiplied by utilizing Schroeder's extensive distributor network. All Schroeder Industries distributors meet very strict criteria to enhance our ability to serve the needs of our valued customers.

Schroeder's distributor network includes over 100 distributor locations throughout Europe, the United Kingdom, South Africa, Australia, Asia, North America and South America, so that customers worldwide can rely on Schroeder's exceptional support.

Manufacturing and Testing

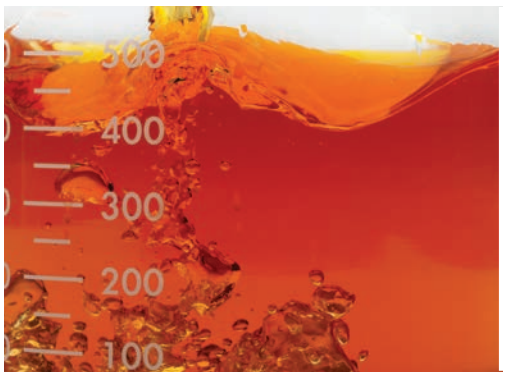
Schroeder Industries' corporate headquarters are located in Leetsdale, PA (USA) with an additional manufacturing facility in Cumberland, MD (USA). Filter housings and diagnostic and specialty products are manufactured at our Pittsburgh plant, while filter elements are manufactured in our Cumberland plant. Both facilities have the skilled workforce and the capacity to meet our customers' needs. Schroeder's research and development center as well as our contamination control laboratory are located at our corporate headquarters.

An Open Invitation

We invite you to present us with any specific filtration challenge you may experience. Schroeder will design and make filters to meet your specific requirements. To find out more, and/or obtain a quote, call us to speak with a sales representative or technical specialist. They can help determine the optimal filtration strategy for a given system. While the quantity of any product manufactured to fit a customer's needs will determine the economic feasibility of a particular project, in many cases, we can offer modified products in relatively small quantities at competitive prices and short lead times.

Over the years, Schroeder design engineers have encountered virtually every type of hydraulic system. We are proud of our continuing success in providing "value-added products" for our customers, that is, making or modifying our products to meet their specific needs. When customers order products from Schroeder, they are assured of a reliable source of supply, consistent and prompt service, and direct support. Pre and post-technical service is provided to ensure customer satisfaction.

So if you're faced with a filtration dilemma, call us.
Schroeder Industries: Advanced Fluid Conditioning Solutions®.



Capabilities

Accessories

Schroeder Industries offers a complete range of reservoir accessories, rotomolded reservoir subsystems and individual accessory components with unique value-added options. Schroeder's hydraulic accessories product offering consists of air breather (desiccant and phenolic resin impregnated cellulose media), pressure gauges, filler-strainers, fluid level monitors, oil sight glasses, suction strainers, magnetic suction separators, hydraulic test points and rotomolded reservoirs.

Along with the standard offerings, Schroeder Industries has the ability to tailor products into a custom sub-system solution for a customer's specific needs. Schroeder Industries also offers several patent protected technologies in our accessories line we can off as value added solutions.

Schroeder's continued commitment to developing technically relevant accessories continually expands the portfolio in both breadth as well as in technical complexity. When implementing any of Schroeder Industries accessories products customers can be confident that all products meet Schroeder Industries strict quality control standards.

From advanced technology desiccant breathers to metal fill caps to diagnostic test point and test kits, Schroeder fills the technology gap left by traditional accessory manufacturers.

Markets Served

Schroeder's products, technical expertise, commitment to research and development, and ongoing improvements in manufacturing enable us to provide products and services that improve performance and efficiency in many major industries, including:

- AGRICULTURE
- AUTOMOTIVE MANUFACTURING
- BULK FUEL FILTRATION
- CHEMICAL PROCESSING
- CONSTRUCTION
- INDUSTRIAL
- MACHINE TOOL
- MARINE
- MINING TECHNOLOGY
- MOBILE VEHICLES
- OFFSHORE
- POWER GENERATION
- PULP & PAPER
- RAILROAD
- STEEL MAKING
- WASTE WATER TREATMENT

Section 1:

COMPLETE TANK PACKAGES

Reservoir Accessories

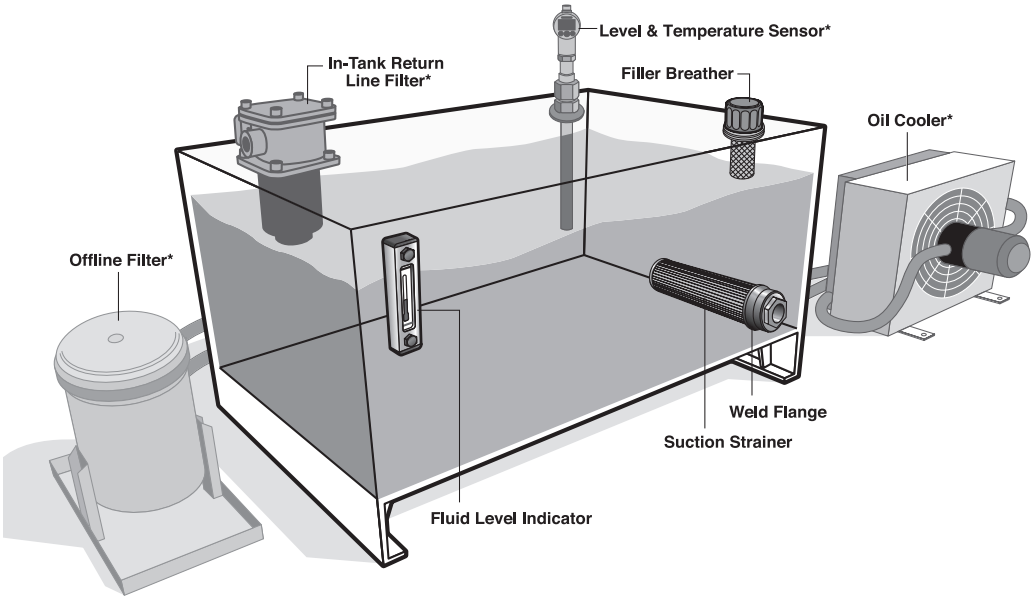
A hydraulic systems' reservoir can play a significant role in the ingression of contamination into the system. Concurrently, the reservoir presents great opportunities to correct the negative fluid conditions. The proper application of Schroeder reservoir accessories will greatly increase a system's cleanliness level. It's good to remember this rule of thumb: "it costs 10 times more to remove contamination from your system than it does to exclude it from your system."

Installing an efficient air breather is critical yet often overlooked when system filtration is considered. In systems operating in dusty atmospheric conditions, the use of an air breather will minimize the ingestion of airborne particles when reservoir levels experience significant change. The sole purpose of an air breather, as with any filtration device, is to reduce the cost of operation. By lowering the rate of ingression, the contamination level of the system will be reduced and the service life of the system fluid filters will be increased.

The fluid replenishment process is another opportunity for contamination to enter the system. Schroeder filler breathers can prevent large contaminants from entering the tank during filling. Most new oil does not meet the cleanliness recommendations of most components within a system when it is delivered from the manufacturer. Removal of the fine particles can be easily accomplished by using Schroeder filter carts. More information regarding filters carts can be found in the filter system catalog.

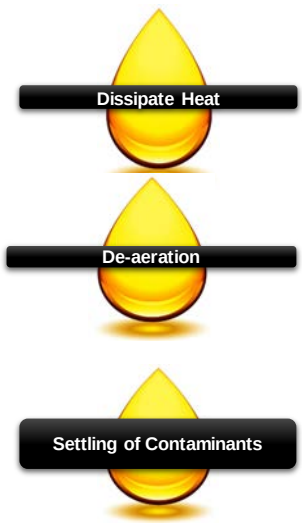
Protecting the pump is an integral step in ensuring system longevity. Installing a suction strainer will stop the larger pieces of unwanted debris from entering the suction line causing catastrophic problems downstream. Schroeder's magnetic suction separators offer unique protection for pumps suction line from all sizes of ferrous particles without starving the pump.

Designed for simple installation on most equipment, Schroeder oil sight glasses provide maintenance and lubrication management professionals a complete and immediate visual oil analysis. Although easy detection and discharge of water contamination are leading benefits, operators can also visually monitor the oil level and condition as discoloration or debris.



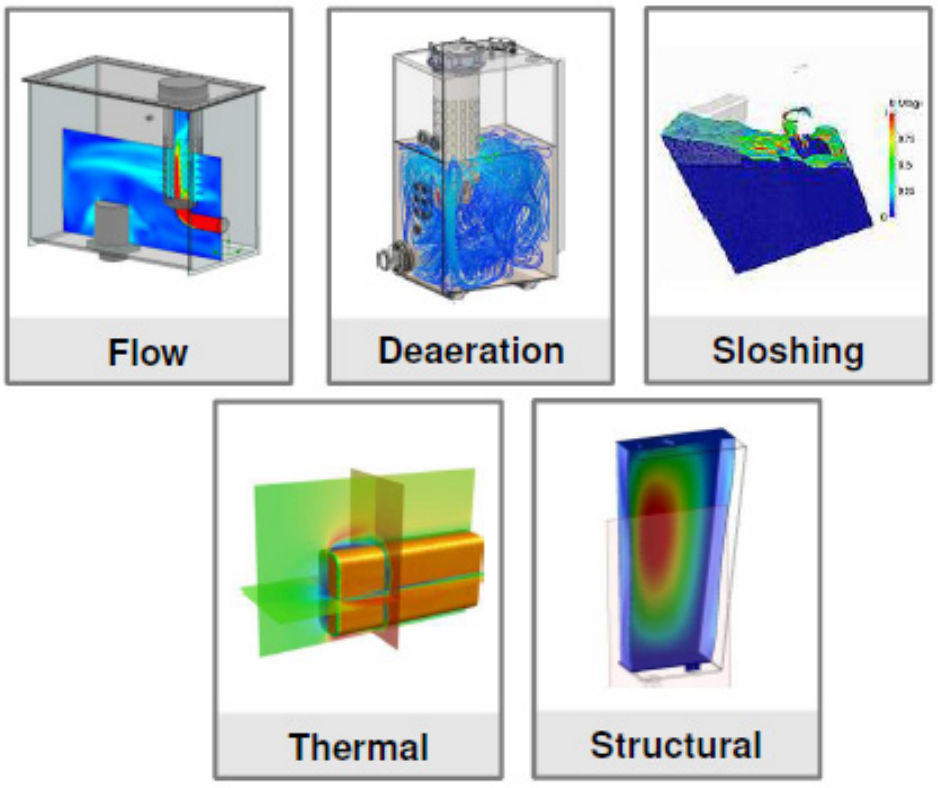
Tank Optimization - Purpose

A fuel tank is a box, a hydraulic tank is a vital system component with several important functions.



A hydraulic reservoir is more than a container of fluid. If properly designed and configured, a hydraulic tank can improve the performance of the entire hydraulic system in the same manner as other active components. A custom made hydraulic tank can improve the hydraulic circuit in areas such as heat dissipation, de-aeration, and settling of contaminants. More than just storage, an expertly engineered hydraulic tank is a versatile toolbox that will improve efficiency of every component in the circuit.

Stimulation and Analysis

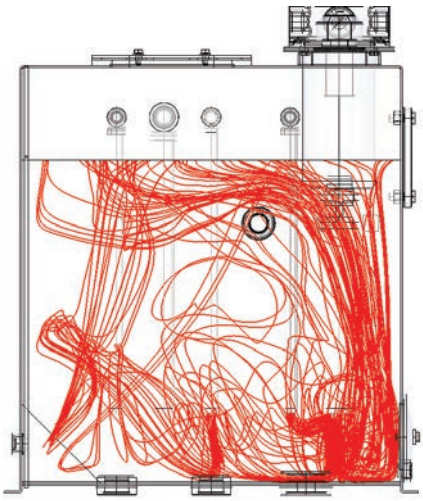


Computer-aided optimization of tank systems

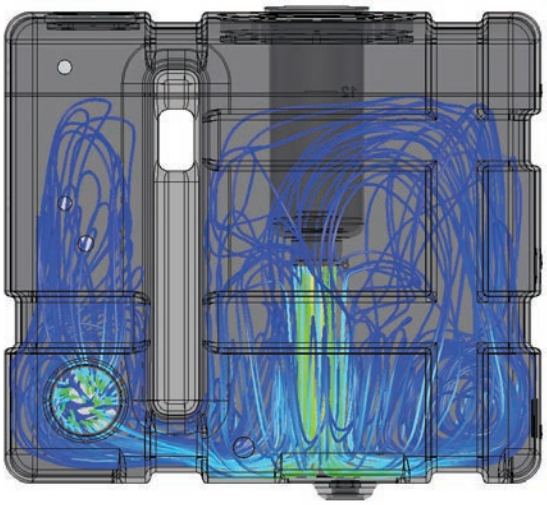
Schroeder Industries ensures every tank we design will perform at the highest level by conducting a series of simulation and analysis before the actual construction. Depending on the customer needs, our engineering team will model the hydraulic reservoir and simulate conditions that can accurately predict application performance in various areas.

Fluid Optimization: De-Aeration

Initial Approach: Study of flow trajection an residence time using single-phase CFD.



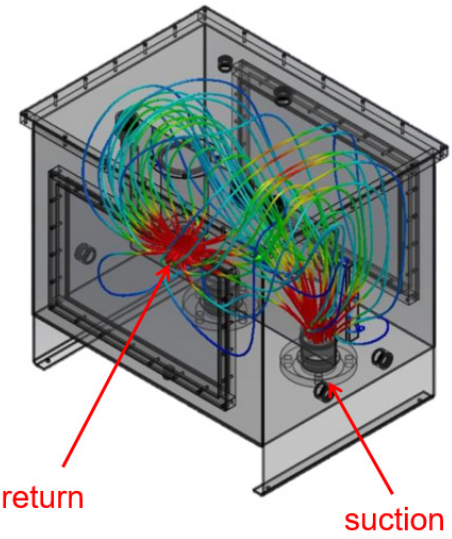
Old Tank



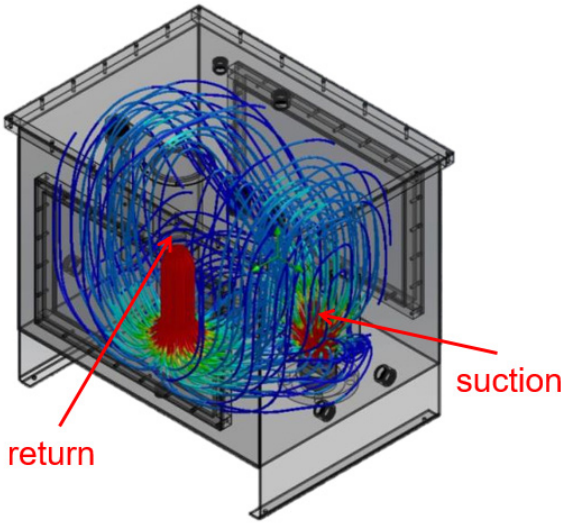
New Tank

An important aspect of tank optimization is maximizing the usage of tank space. A larger tank does not mean better performance if the fluid inside on travels through a small section of the space. By using internal baffles and contours, Schroeder ensures that fluid travels through as much of the tank as possible. This improves space economy by using only the minimally required size for the tank.

Air Residence Time - 5.75 sec



Air Residence Time - 15.25 sec (63% improvement)



Fluid optimization is further assisted by increased dwell time within the tank. Through maximizing the space usage within the tank, we also ensure that fluid spends more time inside the fluid before it passes through. With increased dwell time, the fluid has a chance to go through de-aeration, heat dissipation, and contamination settlement process within the tank.

Complete Tank Solutions

Features and Benefits

- Complete hydraulic reservoir solution with accessories like gauges, in-tank filters, and air breathers already installed
- Patented insertion ring for filter head flange mounting prevents leakage
- Patented integrated baffle wall creates settling zone for returning oil (degassing) with simultaneous cooling effect
- Tank is optimized for air and heat removal
- Tested for leakage (no end-user testing is required)
- Tank is certified clean, eliminating time-consuming flushing processes and testing
- Lightweight and cost efficient
- No risk of corrosion
- Available in four (4) performance optimized sizes (7, 12, 18, & 25 gal.)
- Return-line filter options available with GeoSeal® aftermarket retaining elements

TNK7 - 7 Gallons
TNK12 - 12 Gallons
TNK18 - 18 Gallons
TNK25 - 25 Gallons

100 psi
(7 bar)
Return Line Filter

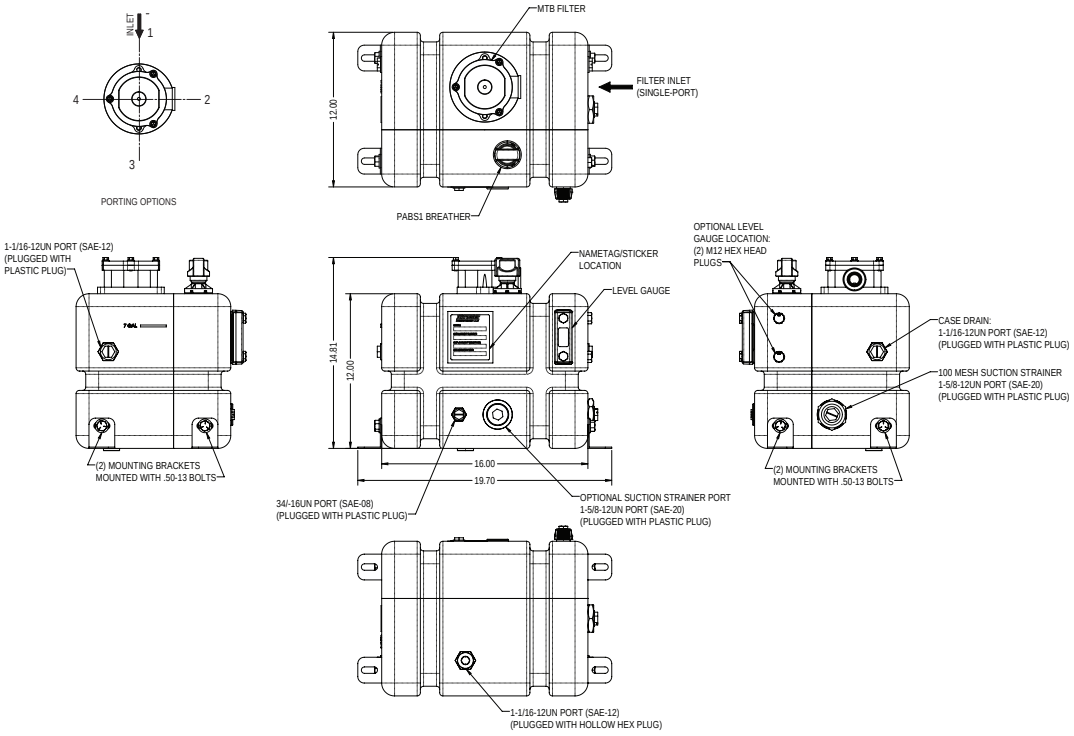
Specifications

Tank Materials:	High Density Polyethylene (HDPE)
Tank Volumes:	7 gal (26L), 12 gal (45L), 18 gal (70L) or 25 gal (100L)
Operating Temperature:	High Density Polyethylene (HDPE) - 20°F to 180°F (-29°C to 82°C) Nylon (PA) - 32°F to 240°F (0°C to 116°C)
Return Line Filter:	TNK7: MTB TNK12: ZT & GZT TNK18: ZT & GZT TNK25: RT & GRT
Max. Return Flow:	TNK7: 35 gpm (135 L/min) TNK12: 40 gpm (150 L/min) TNK18: 40 gpm (150 L/min) TNK25: 75 gpm (284 L/min)
Breather:	3 µ phenolic resin impregnated paper element
Suction Strainer:	100 µ wire mesh SAE20: 20 gpm SAE24: 30 gpm
Weight of TNK:	TNK7: 16 lbs (7.3 kg) TNK12: 21 lbs (9.7 kg) TNK18: 33 lbs (15 kg) TNK25: 45 lbs (20 kg)
Element Change Clearance:	TNK7: 5" (127mm) TNK12: 10" (254mm) TNK18: 10" (254mm) TNK25: 9.5" (241mm)
Ultra Violet Light Rating*:	HDPE = UV-12 Nylon = UV-10
Filter and Element Selection:	For proper filter and element selection, information and pressure drop calculations, please refer to the individual filters (MTB, ZT, GZT, RT & GRTB) sections in the Schroeder Hydraulic and Lube Catalog (L-2520).

*UV Rating is determined by the number of years a material can be exposed to direct sunlight and retain a minimum of 50% of its original mechanical properties (ex. High Density Polyethylene with a UV-12 rating would be recommended to be replaced every 12 years if not painted or coated).

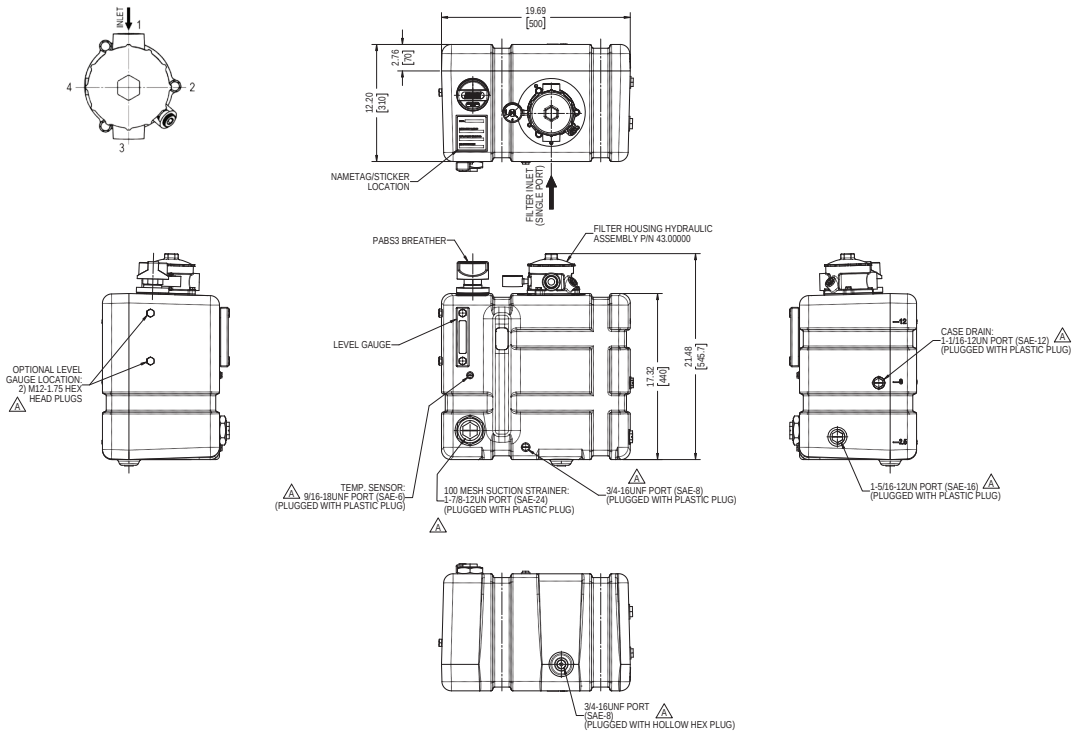
Complete Tank Solutions

TNK7



Metric dimensions in [ ].

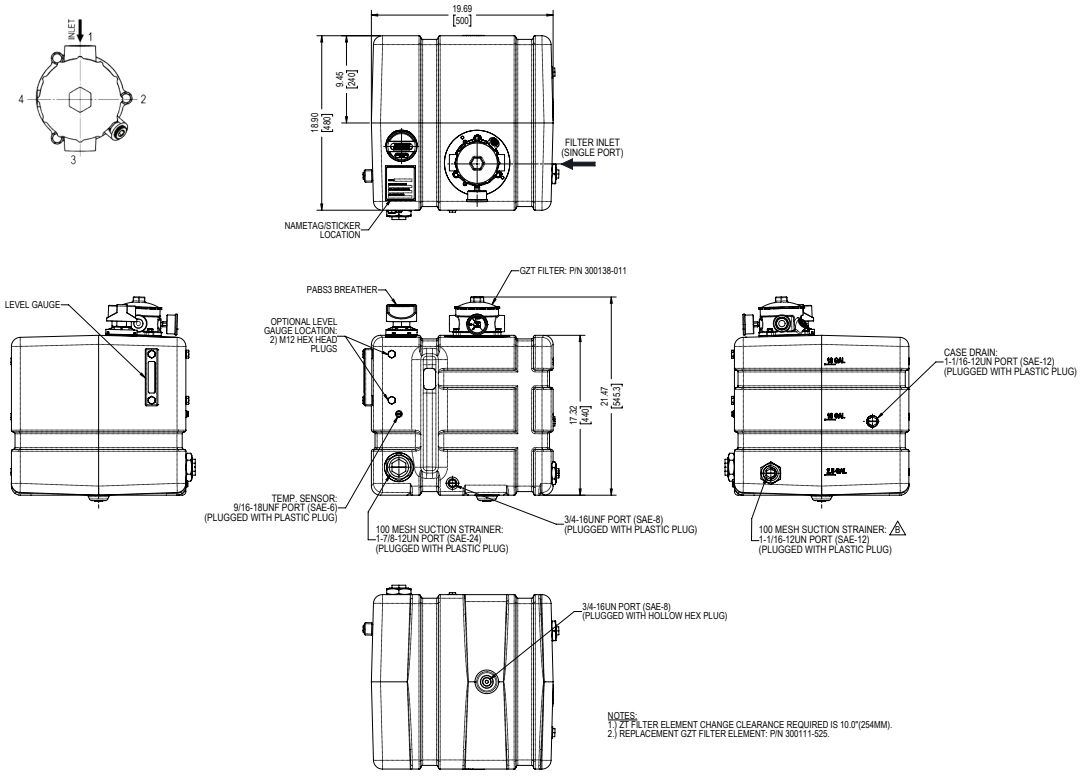
TNK12



Metric dimensions in [ ].

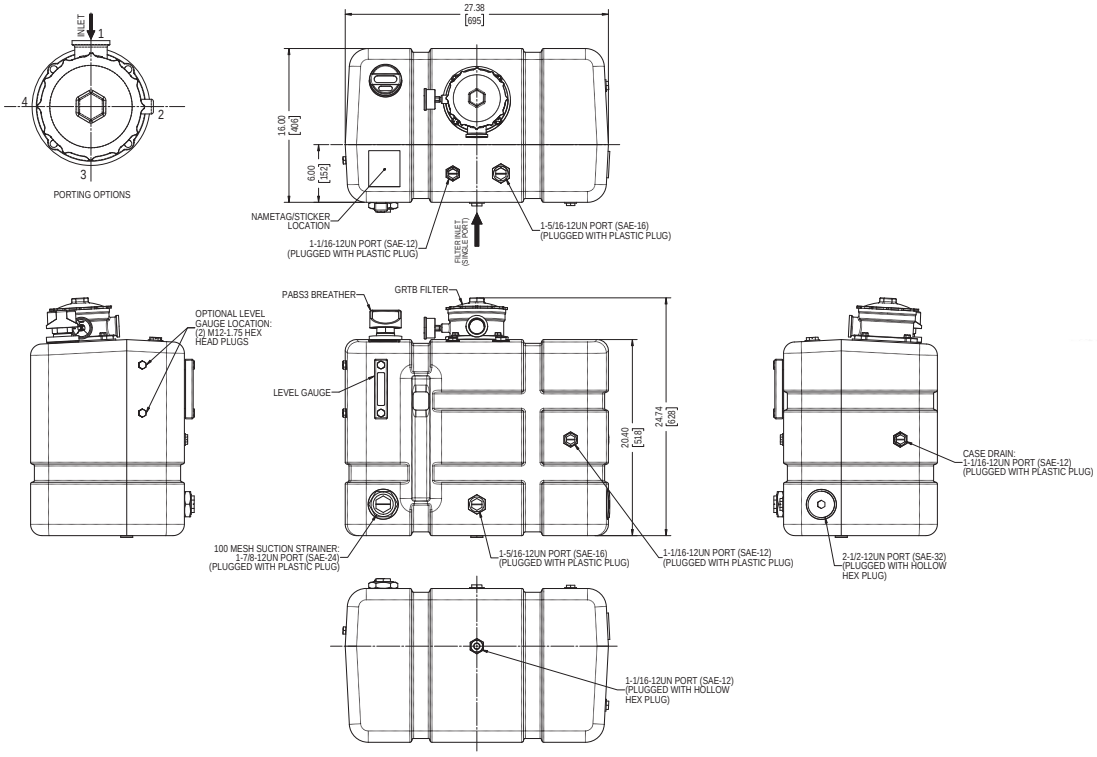
Complete Tank Solutions

TNK18



Metric dimensions in [ ].

TNK25



Metric dimensions in [ ].

Complete Tank Solutions

Filter Model Number Selection For TNK7

How to Build a Valid Model Number for a Schroeder TNK12 & TNK18:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9	BOX 10	BOX 11
TNK–		–		–		–		–		–

Example: *NOTE: Only box 10 may contain more than one option*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9	BOX 10	BOX 11	
TNK–	7	– HD	–MTB10	–S12	– 3	–	– F	– S1	– S	–	= TNK7HDTBZ10S123FS1S

BOX 1

Product Series
TNK

BOX 2

Size	
7 =	7 Gallon

BOX 3

Material	
HD =	HDPE
PA =	Nylon

BOX 4

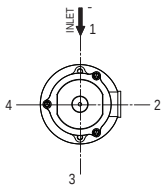
Return Filter & Element Micron Selection	
MTB	
MTB3 =	3 µm Excellement® Z-Media® (Synthetic)
MTB5 =	5 µm Excellement® Z-Media® (Synthetic)
MTB10 =	10 µm Excellement® Z-Media® (Synthetic)
MTB25 =	25 µm Excellement® Z-Media® (Synthetic)

BOX 5

Inlet Porting (MTB)	
P12 =	¾" NPTF
P16 =	1" NPTF
S12 =	SAE-12
S16 =	SAE-16
B12 =	ISO 228 G-¾"
B16 =	ISO 228 G-1"

BOX 6

Filter Inlet Port Orientation	
1 =	Rear
2 =	Right
3 =	Front
4 =	Left



Porting Options (MTB Depicted)

BOX 7

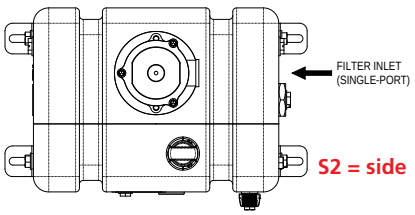
Filter Options		
	Omit =	None
Visual	Y2C =	Bottom-mounted gauge in cap
	Y5 =	Back-mounted gauge in cap
Electrical	ESC =	Electric pressure switch (2 terminals)

BOX 8

Filler/Breather	
F =	PABS1

BOX 9

Sight Glass	
S1 =	Sight Glass Side
S2 =	Sight Glass Front
N =	No Sight Glass



S2 = side

S1 = front

BOX 10

Suction Strainer	
S =	SAE-20, side
F =	SAE-20, front
N =	No Strainers

BOX 11

Options	
Omit =	No Feet
M =	Mounting Feet

NOTES:

Box 4. Micron Rating refers to the return filter element rating.

Box 6. MTB option offers single porting option only. Please align single port with corresponding directional number.

FURTHER INFORMATION: Tank Mounting Straps sold as a separate part number, please see next page for configurations and options.

How to Build a Valid Model Number for a Schroeder TNK12 & TNK18:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9	BOX 10
TNK–		–		–		–		–	

Example: *NOTE: Only box 10 may contain more than one option*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9	BOX 10	
TNK–	12	– HD	– ZT10	– S	– 3	– Y2	– F	– S2	– S	= TNK12HDZT10S3Y2FS2S

BOX 1

Product Series
TNK

BOX 2

Size	
12 =	12 Gallon
18 =	18 Gallon

BOX 3

Material	
HD =	HDPE
PA =	Nylon

BOX 4

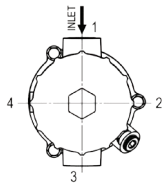
Return Filter & Element Micron Selection	
ZT/GZT (GeoSeal®)	
ZT1/GZT1 =	1 µm Excellement® Z-Media® (Synthetic)
ZT3/GZT3 =	3 µm Excellement® Z-Media® (Synthetic)
ZT5/GZT5 =	5 µm Excellement® Z-Media® (Synthetic)
ZT10/GZT10 =	10 µm Excellement® Z-Media® (Synthetic)
ZT25/GZT25 =	25 µm Excellement® Z-Media® (Synthetic)

BOX 5

Inlet Porting (ZT/GZT)	
P =	1" NPTF
PP =	Dual 1" NPTF
S =	SAE-16
SS =	Dual SAE-16
B =	ISO 228 G-1"
BB =	Dual ISO 228 G-1"

BOX 6

Filter Inlet Port Orientation	
1 =	Rear
2 =	Right
3 =	Front
4 =	Left



Porting Options (ZT Depicted)

BOX 7

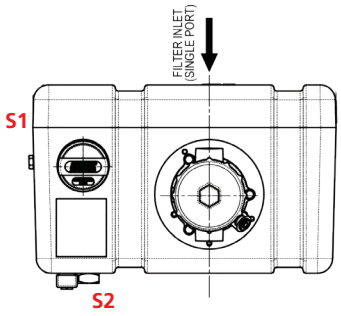
Filter Options		
	Omit =	None
	D =	Diffuser
Visual	Y2 =	Back-mounted tricolor gauge
	Y2C =	Bottom-mounted gauge in cap
	Y5 =	Back-mounted gauge in cap
Electrical	ES =	Electric switch
	ES1 =	Heavy-duty electric switch with conduit connection

BOX 8

Filler/Breather	
F =	PABS3

BOX 9

Sight Glass	
S1 =	Sight Glass Side
S2 =	Sight Glass Front
N =	No Sight Glass



BOX 10

Suction Strainer	
S =	SAE-20, 100 Mesh Strainer
N =	No Strainer / SAE-32 Open Port
For TNK18 Only	
B =	SAE-12 and SAE-24 Strainers

NOTES:

Box 4. Micron Rating refers to the return filter element rating.

FURTHER INFORMATION: Tank Mounting Straps sold as a separate part number, please see next page for configurations and options.

TNK25 Complete Tank Solutions

Filter Model Number Selection For TNK25

How to Build a Valid Model Number for a Schroeder TNK25:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5A	BOX 5B	BOX 6A	BOX 6B	BOX 7	BOX 8	BOX 9	BOX 10
TNK–	–	–	–	–	–	–	–	–	–	–	

Example: *NOTE: Only box 10 may contain more than one option*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5A	BOX 5B	BOX 6A	BOX 6B	BOX 7	BOX 8	BOX 9	BOX10	
TNK–	25 –	HD –	RT10 –	S –		3 –		Y2 –	F –	S2 –	R	= TNK25HDRT10S3Y2FS2R

BOX 1

Product Series
TNK

BOX 2

Size	
25 =	25 Gallon

BOX 3

Material	
HD =	HDPE
PA =	Nylon

BOX 4

Return Filter & Element Micron Selection	
GRTB/RT/GRT (G= GeoSeal®)	
GRTB1/RT1/GRT1 =	1 µm Excellement® Z-Media® (Synthetic)
GRTB3/RT3/GRT3 =	3 µm Excellement® Z-Media®(Synthetic)
GRTB5/RT5/GRT5 =	5 µm Excellement® Z-Media® (Synthetic)
GRTB10/RT10/GRT10 =	10 µm Excellement® Z-Media® (Synthetic)
GRTB25/RT25/GRT25 =	25 µm Excellement® Z-Media® (Synthetic)

Filters chosen here, go to the corresponding inlet porting options in either Box 5A (GRTB) or Box 5B (RT/GRT).

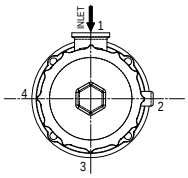
Choose BOX 5A/6A or 5B/6B

BOX 5A

Inlet Porting (GRTB)	
P =	1.25" NPT
S =	SAE-20
B =	ISO 228 G-1.25"

BOX 6A

Filter Inlet Port Orientation	
1 =	Rear
2 =	Right
3 =	Front
4 =	Left



Porting Options (GRTB Depicted)

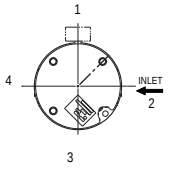
or

BOX 5B

Inlet Porting (RT/GRT) Port A		Inlet Porting (RT/GRT) Port B		Inlet Porting (RT/GRT) Port C	
		N =	None	N =	None
P16 =	1" NPTF	P16 =	1" NPTF	P2 =	⅛" NPTF
P20 =	1¼" NPTF	P20 =	1¼" NPTF	P16 =	1" NPTF
P24 =	1½" NPTF	P24 =	1½" NPTF	S16 =	SAE-16
P32 =	2" NPTF	P32 =	2" NPTF		
S16 =	SAE-16	S16 =	SAE-16		
S20 =	SAE-20	S20 =	SAE-20		
S24 =	SAE-24	S24 =	SAE-24		
S32 =	SAE-32	S32 =	SAE-32		
F20 =	1¼" SAE 4-bolt flange Code 61	F20 =	1¼" SAE 4-bolt flange Code 61		
F24 =	1½" SAE 4-bolt flange Code 61	F24 =	1½" SAE 4-bolt flange Code 61		
F32 =	2" SAE 4-bolt flange Code 61	F32 =	2" SAE 4-bolt flange Code 61		
B24 =	ISO 228 G-½"	B24 =	ISO 228 G-½"		

BOX 6B

Filter Inlet Port Orientation	
1 =	Rear
2 =	Right
3 =	Front
4 =	Left



Porting Options (RT/GRT Depicted)

BOX 7

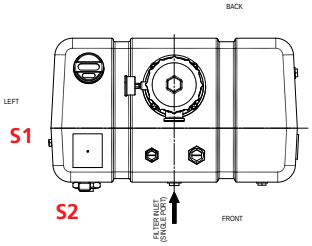
Filter Options		
	Omit =	None
	D =	Diffuser
Visual	Y2 =	Back-mounted tricolor gauge
	Y2C =	Bottom-mounted gauge in cap
	Y5 =	Back-mounted gauge in cap
Electrical	ES =	Electric switch
	ES1 =	Heavy-duty electric switch with conduit connection

BOX 8

Filler/Breather	
F =	PABS1

BOX 9

Sight Glass	
S1 =	Sight Glass Side
S2 =	Sight Glass Front
N =	No Sight Glass



BOX 10

Options	
N =	No Suction Strainer
R =	SAE-24, 100 Mesh Strainer on front side
B =	SAE-24, 100 Mesh Strainer on both sides

NOTES:

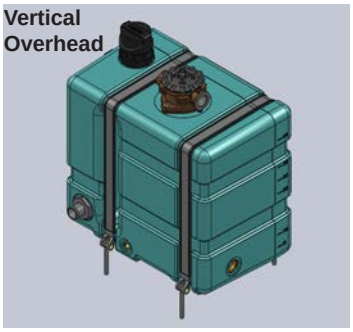
Box 4. Micron Rating refers to the return filter element rating.
*Box 7. Y2C and Y5 options for RT/GRT only.

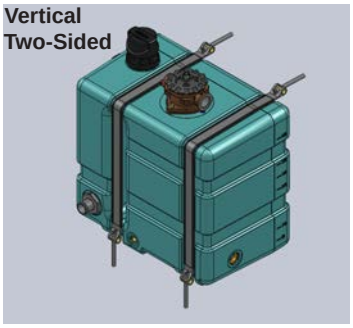
FURTHER INFORMATION: Tank Mounting Straps sold as a separate part number, please see next page for configurations and options.

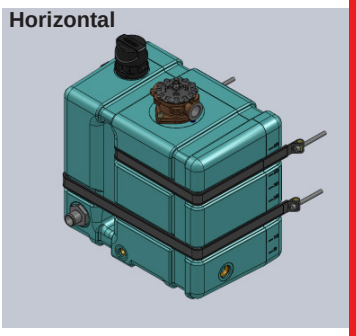
Complete Tank Solutions

Mobile applications have unique requirements for hydraulic components. Often, these components need to be small, compact and as lightweight as possible. Making sure these reservoirs are secure is often overlooked. Schroeder Industries has taken the steps to ensure that customers have all the tools necessary to securely operate their mobile equipment. Schroeder's Plastic Tank (TNK) Reservoir, a money and time-saving solution with an integrated return filter and accessories in one compact package, also includes mounting straps. These mounting straps have been developed to assure a safe and secure connection to the frame or chassis of any mobile vehicle. These straps are offered in three configurations for both sizes of the Plastic Tank in a rubber coated steel strap.

Plastic Tank Strap Arrangement
Introduction







Mounting Possibility
Represents 12, 18 & 25 Gallon Strap Locations

Ordering Information:

TNK7 Straps*			
Vertical Overhead	443635	**Horizontal Upper**	444066

TNK12 Straps*			
Vertical Overhead	443868	**Horizontal Upper**	444066
Vertical Two-Sided	443889	**Horizontal Lower**	444185

TNK18 Straps*			
Vertical Overhead	3054998	**Horizontal Upper**	444490
Vertical Two-Sided	444183	**Horizontal Lower**	3521866

TNK25 Straps*			
Vertical Overhead	4231789	**Horizontal Upper**	444490
Vertical Two-Sided	444183	**Horizontal Lower**	4389641

*Straps are not sold in sets. Each part number designates one strap.

Notes Section:

Section 2:

AIR BREATHERS

Air Breathers

Quality Air Breathers are Essential

Breathers are integral components of any hydraulic system. A common mistake is treating breathers as a commodity and selecting one based solely on price. Due to particulate contamination found in harsh industrial and mobile environments, this mistake can lead to system inefficiencies and component failures. We offer a portfolio of high quality, cost effective air breathers with various options for a wide range of applications. Choosing the proper breather combats the ingression of airborne contamination while increasing the efficiency and improving the reliability of your hydraulic system.

The Schroeder Difference

Breather elements are typically constructed with low-grade paper or low-quality sponge material, which tend to tear when exposed to moisture and provide insufficient filtration ratings. Conversely, our breather elements are constructed of phenolic resin impregnated paper or synthetic media. Both types provide high resistance to moisture and adequate micron ratings, ensuring proper filtration while extending the operational service life of the breather.

Recommendations

Increasing demands for fluid cleanliness levels are requiring more frequent use of high-quality media for the filtration of oils. Schroeder recommends selecting a breather with a filtration rating (micron rating) that is equivalent to or finer than your finest system filters.

Since breathers do get clogged over time, Schroeder recommends the following change-out schedules:

Breathers without pressure gauges or visual indicators change your breather every 6 months or with every service interval.

Breathers with pressure gauges change your breather at 3 psi pressure drop (at higher pressure drops, the pump can cavitate).

Air Breathers

Schroeder offers high quality breathers to effectively combat the ingression of airborne contamination and moisture, therefore increasing the efficiency and reliability of the system.

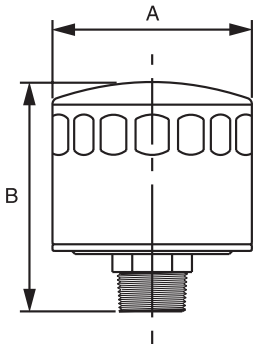
Available breather series are ABF, PAB, SAB, and D-AB. Many are available with filler strainer, dipstick, indicator and check/relief valve options. The ABC air breather check can takes the guesswork out of when to change your breather.

Air Breathers
Suction Separators and Strainers
Oil Sight Glasses

ABF-3/10 ABF-3/10-M-P12 ABF-S40 ABF-S40-M-P12
MBF-3-M-P20 MBF-10-M-P20

Features and Benefits

- Durable metal housing
- Optional dipstick or filler strainer
- Large pleated surface areas offers high dirt holding and air flow capacity
- NPT or Flange adapter available
- Available with three micron rating



Breathers with NPT Adapters

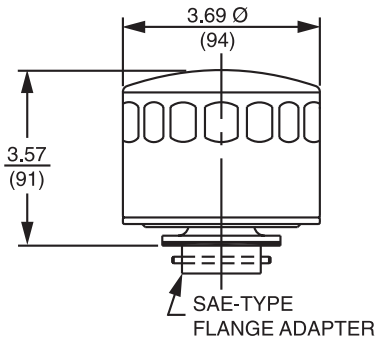
Specifications

Model Number	A	B	Adapter Type	Minimal Micron Retention	Max Flow Rate	Air Flow/ psi Drop
ABF-3/10 ABF-3/10-M-P12	3.69 (94)	4.28 (109)	.75" NPT Nylon .75" NPT Steel	3 3	40 SCFM	0.4 psi at 20 SCFM- 1.25 psi at 40 SCFM
ABF-S40 ABF-S40-M-P12	3.69 (94)	4.28 (109)	.75" NPT Nylon .75" NPT Steel	40 40	40 SCFM	0.29 psi at 20 SCFM- 1.06 psi at 40 SCFM
MBF-3-M-P20 MBF-10-M-P20	5.06 (128)	8.31 (211)	1.25" NPT Steel	3 10	200 SCFM	0.3 psi at 70 SCFM- 1.25 psi at 200 SCFM

SCFM = Standard Cubic Feet per Minute

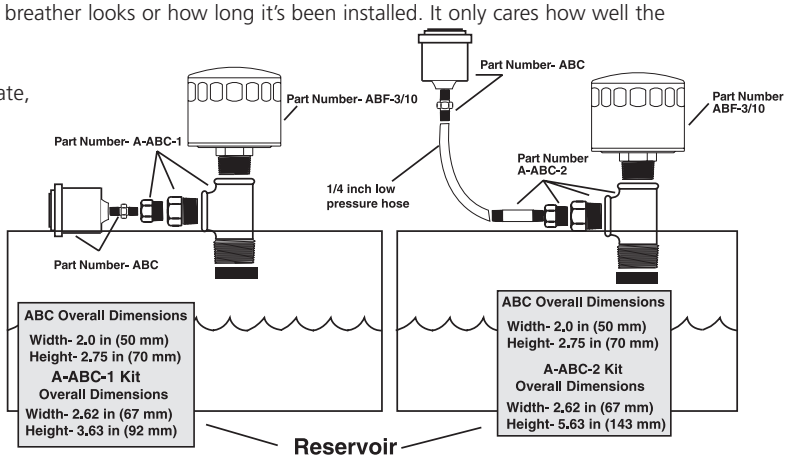
ABF-3/10-F ABF-S40-F

These breathers are designed for retrofit on hydraulic reservoirs using the SAE-type flange fill port assembly.



Breathers with Flange Adapters

The Air Breather Check (ABC) takes the guesswork out of when to change your air breather because it doesn't care how dirty the air breather looks or how long it's been installed. It only cares how well the breather is working. The air breather check is calibrated in inches of water and will activate, providing a visual indication, when a vacuum equivalent of 15 inches of water (3.75 kPa) is reached. The ABC can be reset simply by depressing the yellow button and used over and over again.



Air Breather Check (ABC)

An Indicator For Your Air Breather

Air Breathers

Filler Breather with Strainer

ABF-3/10-S
ABF-3/10-S6

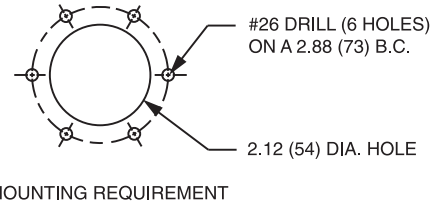
ABF-S40-S
ABF-S40-S6

The strainer used here is #24 mesh and is available in the lengths shown.

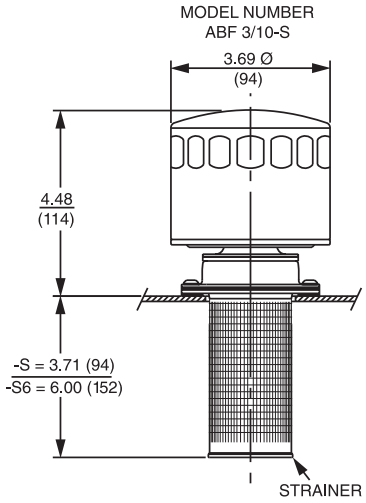
Model Number	Adapter Type	Minimal Micron Retention	Max Flow Rate	Air Flow/ psi Drop
ABF-3/10-S ABF-3/10-S6	SAE-type flange	10 10	40 SCFM	0.4 psi at 20 SCFM - 1.25 psi at 40 SCFM
ABF-S40-S ABF-S40-S6	SAE-type flange	40 40	40 SCFM	0.29 psi at 20 SCFM - 1.06 psi at 40 SCFM

SCFM = Standard Cubic Feet per Minute

To replace breather only, order ABF-3/10-F or ABF-S40-F.



MOUNTING REQUIREMENT



SAME DAY SHIPMENT MODEL AVAILABLE!

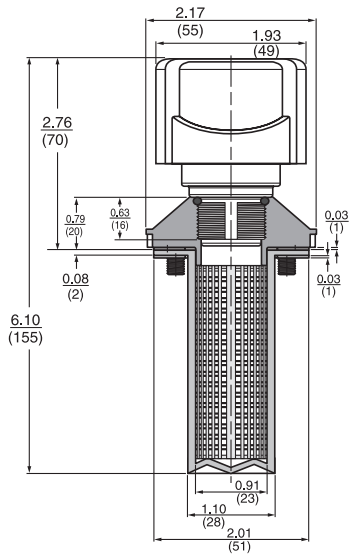
Air Breathers

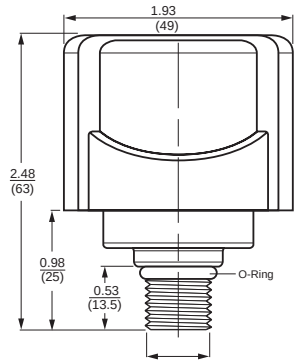
Suction Separators and Strainers

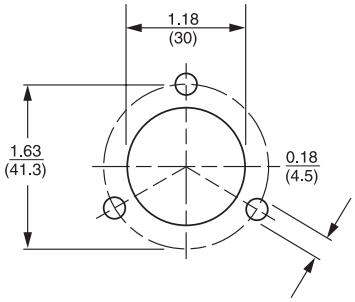
Oil Sight Glasses

Features and Benefits

- Durable synthetic Nylon 6 housing
- Phenolic resin impregnated filter element
- Standard Buna N O-Ring
- Available with anti-splash or relief valve
- Optional customer logo (contact factory)
- Optional dipstick (contact factory)







PAB1 Breather

PABS1 Breather

Specifications

Max. Flow Rate:	7 SCFM / 51 gpm at .15 psi 13 SCFM / 100 gpm at .6 psi
Filtration Rating:	3 µm absolute
Operational Temperature:	-22˚ to 212˚F (-30˚ to 100˚C)

How to Build a Valid Model Number for a Schroeder PAB1:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7
PAB1						

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	
PAB1		P	3	N	.5	R6	**= PAB1P3N.5R6**

BOX 1

Model Number
PAB1
PABS1

BOX 2

Replacement Element
Omit

BOX 3

Connection Type
P = NPT
S = SAE
For PABS1 Only
F = Flanged

BOX 4

Filtration Rating
3

BOX 5

Gauge Option
N = No Gauge

BOX 6

Connection Size
.5 = 1/2" NPT
12 = 3/4" SAE
For PABS1 Only
1 = Standard

BOX 7

Options
AS = Anti-Splash
R6 = 6 psi relief valve
For PAB1 Only
D = Dipstick

For PABS1 Only

Replacement Elements:	PAB1M3N22

Filter Model Number Selection

Same Day Shipment Model

NOTE:

Contact factory for lead time and minimum order quantity for other models.

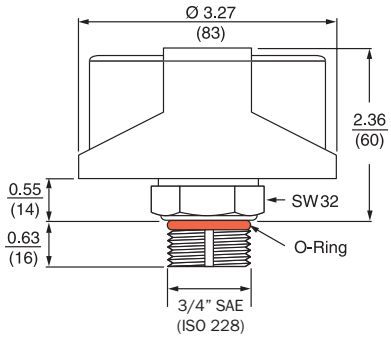
Air Breathers

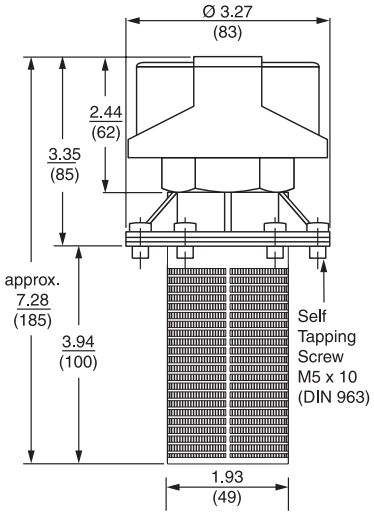
PAB3 Breather

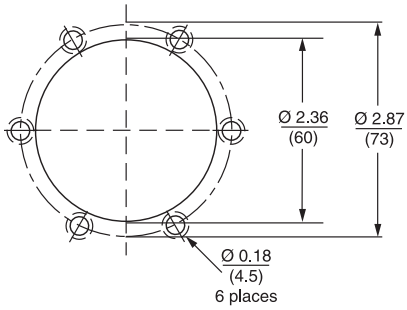
PABS3 Breather

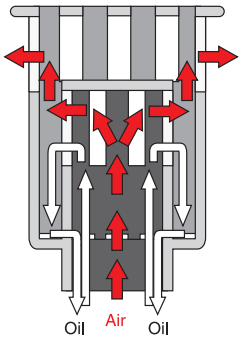
Features and Benefits

- Durable synthetic Nylon 6 housing
- Phenolic resin impregnated filter element
- Standard Buna N O-Ring
- Available with anti-splash or relief valve
- Optional customer logo (contact factory)
- Optional dipstick (contact factory)









Specifications

Max. Flow Rate:	14 SCFM / 105 gpm at .15 psi 30 SCFM / 230 gpm at .6 psi
Filtration Rating:	3 µm absolute
Operational Temperature:	-22˚ to 212˚F (-30˚ to 100˚C)

Filter Model Number Selection

Same Day Shipment Model

How to Build a Valid Model Number for a Schroeder PAB3:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7
PAB3						

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	
PAB3		P	3	N	12	R6	**= PAB3P3N12R6**

BOX 1

Model Number
PAB3
PABS3

BOX 2

Replacement Element
Omit

BOX 3

Connection Type
P = NPT
S = SAE
For PABS3 Only
F = Flanged

BOX 4

Filtration Rating
3

BOX 5

Gauge Option
N = No Gauge

BOX 6

Connection Size
1 = 1" NPT
12 = 3/4" SAE
For PABS3 Only
1 = Standard

BOX 7

Options
AS = Anti-Splash
R6 = 6 psi relief valve
For PAB3 Only
D = Dipstick

NOTE:

Contact factory for lead time and minimum order quantity for other models.

For PABS3 Only

Replacement Elements:	PABM3N22

SAME DAY SHIPMENT MODEL AVAILABLE!

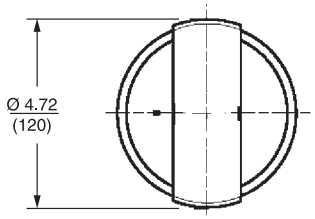
Air Breathers

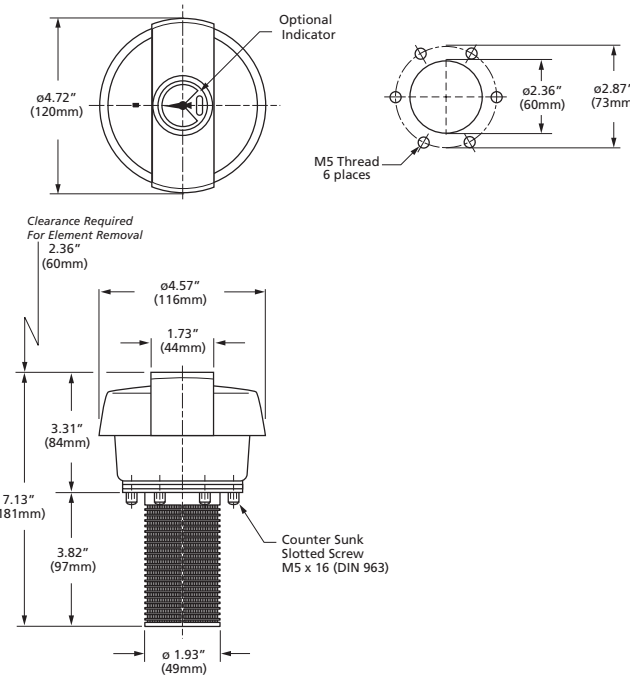
Suction Separators and Strainers

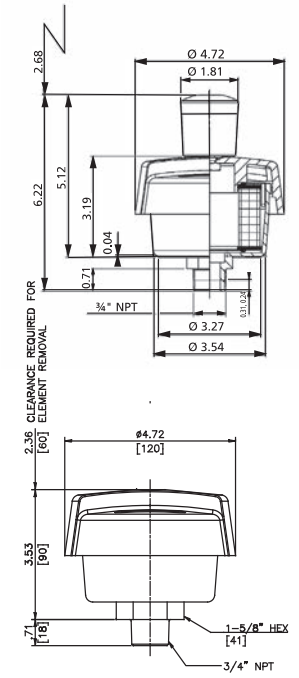
Oil Sight Glasses

Features and Benefits

- Durable synthetic Nylon 6 housing
- Phenolic resin impregnated filter element
- Standard Buna N O-Ring
- Integrated anti-splash insert
- Optional differential gauge
- Optional customer logo (contact factory)







PABR7 Breather

PABSR7 Breather

Specifications

Max. Flow Rate:	35 SCFM / 260 gpm at .15 psi 64 SCFM / 475 gpm at .6 psi
Filtration Rating:	3 µm
Operational Temperature:	-22˚ to 212˚F (-30˚ to 100˚C)
Range of Indication:	0.5 psi

How to Build a Valid Model Number for a Schroeder PABR7:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6
PABR7					

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	
PABR7	P	3	N	.75	AS	**= PABR7P3N.75AS**

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6
Model Number	**Connection Type**	**Filtration Rating**	**Gauge Option**	**Connection Size**	**Options**
PABR7	P = NPT	3	N = No Gauge	.75 = 3/4" NPT	AS = Anti-Splash
PABSR7	S = SAE		W = With Gauge	16 = 1" SAE	For PABSR7 Only
	For PABSR7 Only				F = Flanged
	F = Flanged				

For PABSR7 Only

Replacement Elements: R-PAB7-3

Filter Model Number Selection

Same Day Shipment Model

NOTE:

Contact factory for lead time and minimum order quantity for other models.

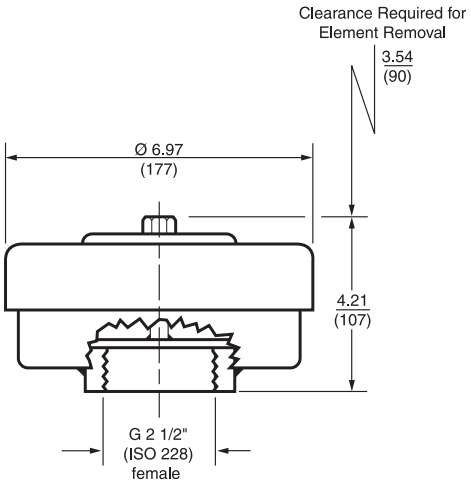
Air Breathers

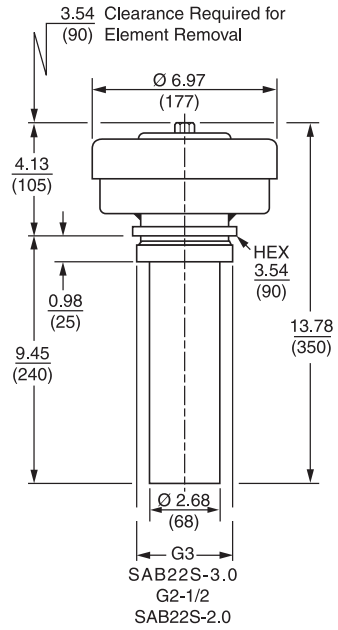
SAB22 Breather

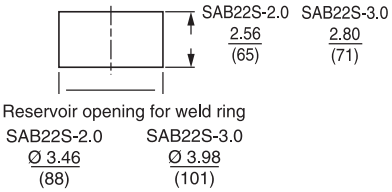
SABS22 Breather

Features and Benefits

- Durable steel housing
- Wide range of flow rates
- Replaceable element







Specifications

Max. Flow Rate:	90 SCFM / 685 gpm at .15 psi 105 SCFM / 790 gpm at .6 psi
Filtration Rating:	3 µm absolute, Phenolic resin impregnated filter element
Connection:	G2 ½" female thread
Lid:	Removable lid to access fill port

Filter Model Number Selection

How to Build a Valid Model Number for a Schroeder SAB22:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6
SAB22					

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	
SAB22	R	G	3	N	2.5	**= SAB22RG3N2.5**

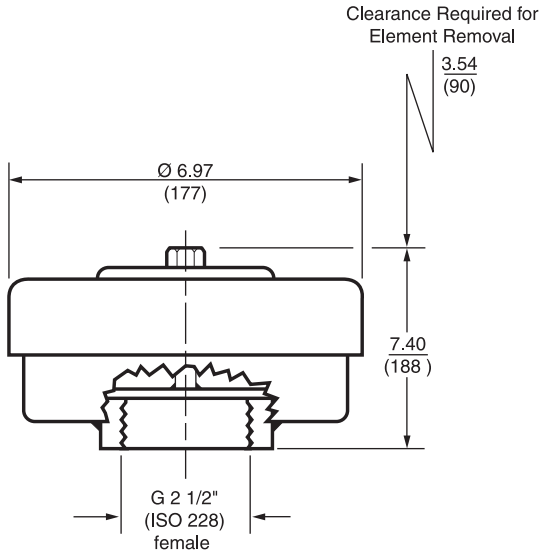
BOX 1	BOX 2	BOX 3	BOX 4	BOX 5
Model Number	**Replacement Element**	**Connection Type**	**Filtration Rating**	**Gauge Option**
SAB22 SABS22	R = Replacement Elements	G = BSPP	3	N = No Gauge

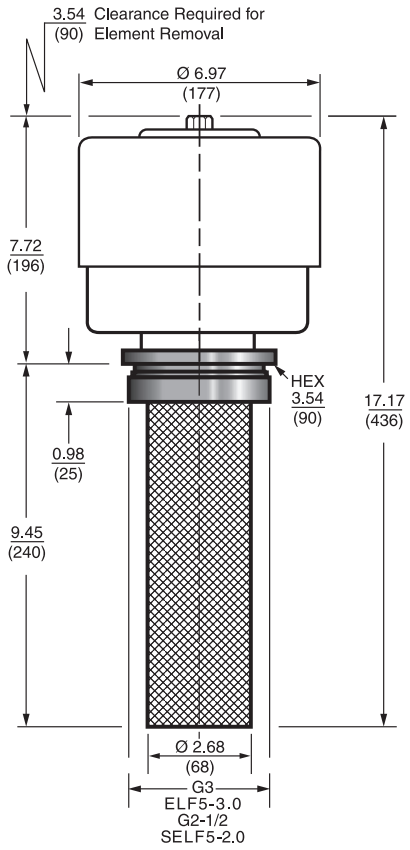
BOX 6
Connection Size
2.5 = Female BSPP

Replacement Elements:	R-SAB22-3

Features and Benefits

- Durable steel housing
- Wide range of flow rates
- Replaceable element





SAB35 Breather

SABS35 Breather

Specifications

Max. Flow Rate:	127 SCFM / 950 gpm at .15 psi 176 SCFM / 1320 gpm at .6 psi
Filtration Rating:	3 µm absolute, Phenolic resin impregnated filter element
Connection:	G2 ½" female thread
Lid:	Removable lid to access fill port

How to Build a Valid Model Number for a Schroeder SAB35:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6
SAB35 –		–		–	

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	
SAB35 –	R –	G –	3 –	N –	2.5	= SAB35RG3N2.5

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5
Model Number	**Replacement Element**	**Connection Type**	**Filtration Rating**	**Gauge Option**
SAB35 SABS35	R = Replacement Elements	G = BSPP	3	N = No Gauge

BOX 6
Connection Size
2.5 = Female BSPP

Replacement Elements:	R-SAB22-3 (2 per breather)

Filter Model Number Selection

Same Day Shipment Model

NOTE:

Contact factory for lead time and minimum order quantity for other models.

Air Breathers

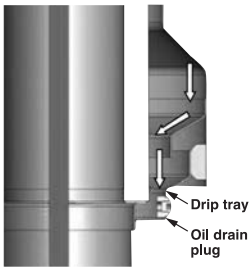
SAB70 Breather

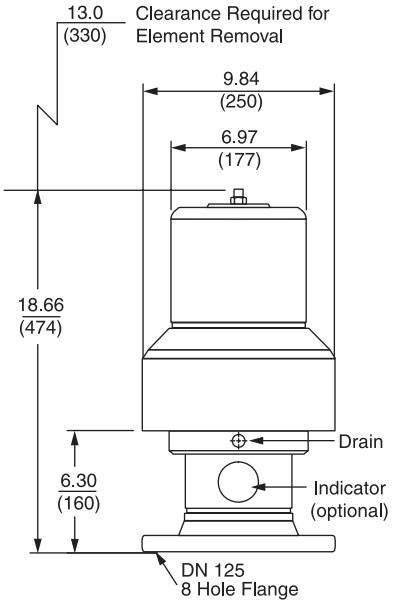
Features and Benefits

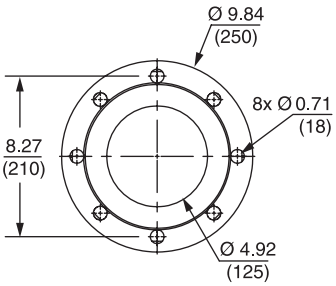
- Ideal for large reservoir with high return flow
- Durable steel housing
- Replaceable element
- Unique Oil Mist Trap design
- Optional pressure indicator

Oil Mist Trap

The oil mist in the filter is collected in a "drip tray"and is returned safely to the tank, or it can be drained via an oil drain plug.







Specifications

Max. Flow Rate:	340 SCFM / 2560 gpm at .15 psi 528 SCFM / 3960 gpm at .6 psi
Filtration Rating:	2 µm Excellement® Z-Media®
Connection:	8 bolt DN 125 flange

Filter Model Number Selection

How to Build a Valid Model Number for a Schroeder SAB70:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6
SAB70					

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	
SAB70	R	F	2	N	1	**= SAB70RF2N1**

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5
Model Number	**Replacement Element**	**Connection Type**	**Filtration Rating**	**Gauge Option**
SAB70	R = Replacement Elements	F = Flanged	2	N = No Gauge W = With Gauge

BOX 6
Connection Size
1 = Standard (DN125)

Replacement Elements:	R-SAB70-Z2

Section 3:

DESICCANT BREATHERS

Introduction

Schroeder Industries desiccant breathers are pivotal in keeping hydraulic fluid dry. Dry hydraulic fluid lasts longer and reduces wear and tear on components as well as reducing varnish formation in the hydraulic fluid. Maintaining a consistent fluid condition at the optimum level is critical for performance.

Schroeder Industries offers two types of desiccant breathers to our customers. Schroeder D-AB series desiccant breather has been a flagship of the breather portfolio for many years. Using silica gel, the D-AB series breathers remove moisture from the air as it passes through the breather into the reservoir. The D-AB desiccant breathers can hold up to 18.5 oz. of water. The silica gel changed color according to the color code on the package to indicate when the breather element has been spent and the breather needs replaced. The D-AB breather has a 2 micron sponge breather at the base of the element to prevent particulate contamination fro entering the reservoir.

The second desiccant breather offered by Schroeder Industries is the DBE. This next generation desiccant breather expands on the capabilities of the D-AB. The DBE desiccant breather utilizes two stages of absorbent media to increase performance and optimizes the drying efficiency. The first stage of the drying process is Silica gel which is efficient at removing high humidity levels quickly. The second stage is a molecular sieve which can reduce low level humidity efficiently. Finally there is a Star pleated 3 micron phenolic resin impregnated media to filter our particulate contamination. All of these features improve the performance life of the DBE. However, the most important improvement made to the DBE is the addition of a base with integral inlet and outlet check valves. During operation, as air is drawn into the breather, the inlet valves open and the outlet valves close forcing the air through the breather media. But as the reservoir exhales, the outlet valves open and the inlet valves close allowing the air to vent directly to atmosphere without going through the media. This allows the media to last longer and for a reduction in operations costs.

Schroeder Industries Desiccant breathers will help maintain the cleanliness and condition of the fluid in the circuit by keeping the fluid dry and free from airborne particulate contamination.

Desiccant Air Breathers

D-AB Desiccant Filter Breather

The Schroeder desiccant air breathers are designed to increase operational efficiency while reducing operating costs by protecting industrial systems from moisture and particle contaminants.

As fluid levels drop and pressure changes occur in a system, moist air is drawn through the breather (as shown in the diagram below). Air passes through a 2-micron solid contaminant filter and a diffuser to ensure maximum efficiency in the silica gel chamber. Water vapor in the air is absorbed by the silica gel before the dry air passes through a second 2-micron contaminant filter. The filtered air that enters the reservoir is void of moisture and contaminants.

Features

Bidirectional Air Flow

As moist air flows through the breather's filtration system, it is cleaned of impurities and dried. Expelled air partially regenerates the silica gel and "backflushes" the particulate to prolong the life of the breather.

Durable Construction

The desiccant air breathers are manufactured from rugged polycarbonate in DLP plastic, and impact-modified Plexiglas.

Water Vapor Absorbent

Silica gel is chemically inert, non-toxic, non-deliquescent, non-corrosive and environmentally disposable. Its internal structure of interconnected microscopic pores absorbs up to 40% of its weight. The operating temperature range is -22°F to 212°F (-30°C to 100°C).

Color Indicator

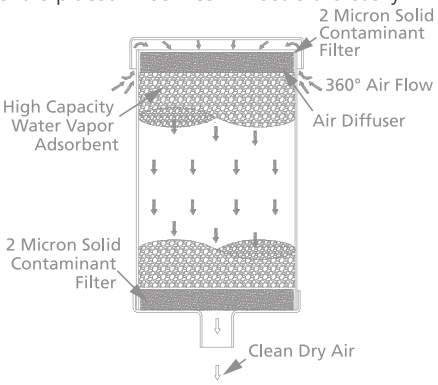
As the gold silica gel absorbs water, it turns green to indicate that it has reached its functional capacity and that replacement of the breather is required.

Dual Anti-static Filter System

The solid contaminant filters are designed to reduce the potential for explosion in dusty environments.

Safety Sealed

To ensure a long shelf life and premium operating performance, each desiccant breather is individually sealed and vacuum packed to protect it from moisture before it is placed in service. All seals are easily removable without the use of tools or sharp instruments.

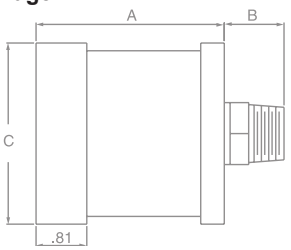


Benefits

- **Anti-static features to protect against fire ignition**
- **High water absorption capacity (4 oz)**
- **Long operating life and low maintenance costs**
- **Environmentally safe disposable silica gel**
- **Compatibility with a variety of applications**
- **Prevents rust and oxidation**
- **Minimizes component wear and maintenance**
- **Curtails freezing and additive depletion**
- **Diminishes fluid degradation and orifice blockage**
- **Extends oil filter and hydraulic system life**

Applications

- **New and Retrofit Applications**
- **Gear Boxes**
- **Hydraulic Reservoirs**
- **Storage Tanks**



D-AB-2 **D-AB-2-F** **D-AB-8**

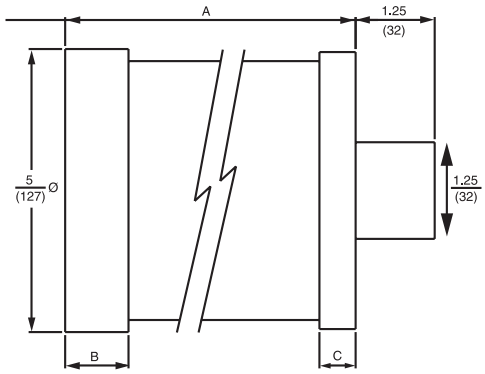
Model Number	Connection	Normal Capacity	Air Flow/ psi Drop	A	B	C
D-AB-2	.75" NPT Male	20 SCFM	2 psi at 20 SCFM	3.16 (80)	0.95 (24)	3.25 (83)
D-AB-2-F	2.25" SAE J829 Flange	20 SCFM	2 psi at 20 SCFM	3.16 (80)	Contact factory	3.25 (83)
D-AB-8	2" NPT Male	20 SCFM	0.5 psi at 20 SCFM	10.0 (254)	1.75 (44)	5.0 (127)

Desiccant Air Breathers

D-AB-4

R-AB-4

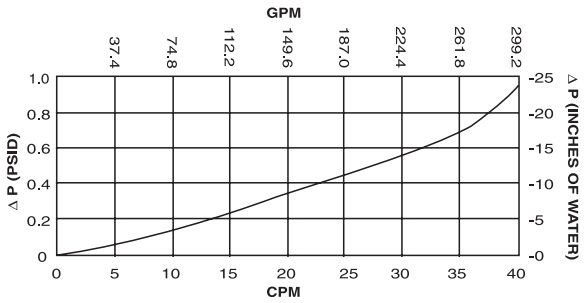
D-AB-4 **R-AB-4**



Specifications

Model Number	Max. Air Flow	Air Flow/ psi Drop	A	B	C
D-AB-4	35 SCFM	0.70 psi at 35 SCFM	8 (203)	1.75 (44)	0.75 (19)
R-AB-4	35 SCFM	0.70 psi at 35 SCFM	10 (254)	3.00 (76)	1.50 (38)

The R-AB-4 features inlet and outlet check valves located in the reusable cap (head), which control both the airflow into the reservoir and the airflow out of the reservoir and prolongs the life of the desiccant by allowing the air to flow through the breather only when needed to protect the integrity of the reservoir by establishing the thresholds of vacuum (air in) and pressure (air out). Check valve settings are 0.3 psi in and 2.1 psi out.

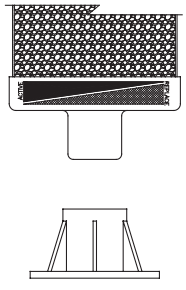


The R-AB-4 also includes a reusable top cap which allows for the economic replacement of the desiccant cartridge.

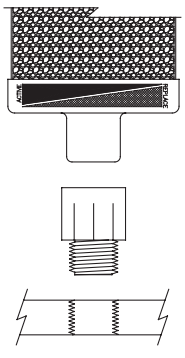
P/N for replacement cartridge is R-AB-ELE.

Both D-AB-4 and R-AB-4 require an adapter. Purchase separately. See below for Adapter Selection Guide.

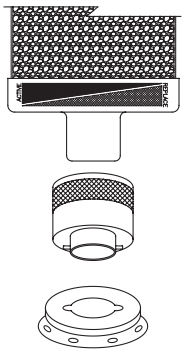
Adapter Selection Guide



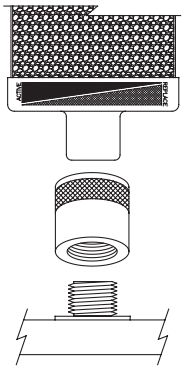
Flange Adapter
Part No. D-AB-FA (without holes)
Part No. D-AB-FA1 (with holes)



Threaded Adapter
Part No. D-AB-TA1 (1" MNPT)
Part No. D-AB-TA34 (3/4" MNPT)



Bayonet Adapter
Part No. D-AB-BA

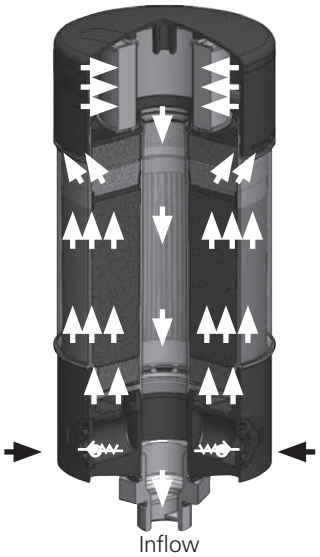


Spin On Adapter
Part No. D-AB-SOA1 (1" 12UNF)
Part No. D-AB-SOA112 (1-1/2" 16UNF)

Desiccant Air Breathers

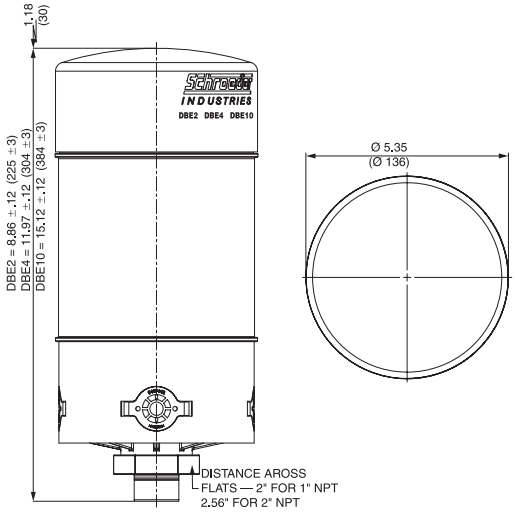
Features and Benefits

- Unique air flow design with suction tube as splash protection and protection against absorbent getting into the tank
- 2 stages of absorbent provide optimal combination of drying efficiency and water retention
- Pleated air filter with 2 µm filtration rating
- Reusable base with check (intake) and bypass (outflow) valves
- Check valves prevent absorbents being saturated during system downtime
- Bypass valves divert out flow away from water removal media to preserve its life
- Robust Zinc die-casting connection piece with integrated anti-splash baffles
- Replacement cartridge available in 3 different sizes



DBE-4

Dimensions



Applications

- New and Retrofit Applications
- Gear Boxes
- Hydraulic Reservoirs
- Wind Turbines

Element Contamination Retention Capacity:	(2 µm), 26g
Operating Temperature:	-20°F to 210°F (-29°C to 99°C)
Storage Temperature:	from -40°F(-40°C)

Specifications

Size	Water Retention Capacity (gallon) Max.	Water Retention Capacity (gallon) Actual	Optimal Air Flow Rate (SCFM)	Max. Drying Capacity at Medium Humidity (SCF)	Max. Drying Capacity at High Humidity (SCF)
DBE-2	.06	.05	21	350	210
DBE-4	.13	.08	28	880	530
DBE-10	.20	.13	35	1450	880

DBE Air Breathers

Filter Model Number Selection

How to Build a Valid Model Number for a Schroeder DBE:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8
DBE							

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	
DBE	4	R	P	2	N	1	R.04	**= DBE4RP2N1R.04**

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5
Model Number	**Size**	**Replacement *Element**	**Connection Type**	**Filtration *Rating**
DBE	2 4 10	R = Replaceable	P = NPT B = BSPT F = Flanged	2 µ

BOX 6	BOX 7	BOX 8
Gauge Options	**Connection Size**	**Check Valve Options**
N = None	Omit = Flange 1 = 1″ 2 = 2″ (NPT only)	Omit = None R.04 = 0.04 psi

How to Build a Valid Model Number for a Schroeder DBE Base:

BOX 1	BOX 2	BOX 3	BOX 4
DBE			

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	
DBE	P	1	R.04	**= DBEP1R.04**

BOX 1	BOX 2	BOX 3	BOX 4
Model Number	**Connection Type**	**Connection Size**	**Check Valve Options**
DBE	P = NPT B = BSPT F = Flanged	Omit = Flange 1 = 1″ 2 = 2″ (NPT only)	Omit = None R.04 = 0.04 psi

Replacement Cartridge Only:

BOX 1	BOX 2	BOX 3
Replacement Element	**Model Number**	**Size**
R = Replaceable	DBE	2 4 10

Desiccant "Low-Profile" Breather

DLP

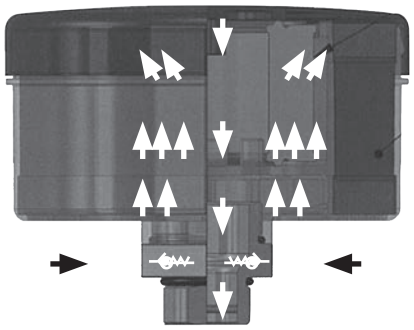
Benefits

- Low-profile, high capacity design with low machine clearance dimensions in mind
- Prevents dirt and water vapor from entering gearboxes and/or hydraulic systems
- Improves the overall life of the equipment they're mounted on
- High water absorption capacity (4 oz)
- Environmentally safe disposable silica gel
- Prevents rust and oxidation

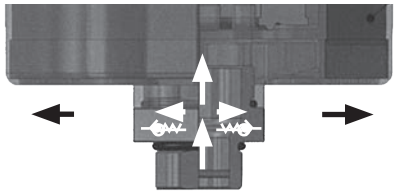
Applications

- New and Retrofit Applications
- Gear Boxes
- Hydraulic Reservoirs
- Storage Tanks

DLP-2P **DLP-2B**

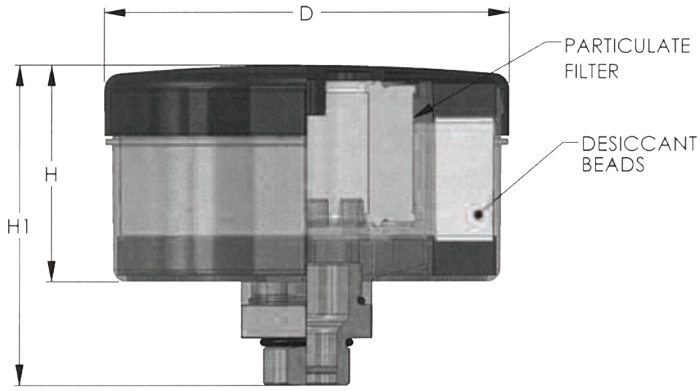


Inflow



Outflow

Dimensions



Specifications

Model Number	Connection	Normal Capacity	Air Flow/ psi Drop	H1	H	D
DLP-2P	1" NPT Male	20 SCFM	1 psid at 20 SCFM	4.75	3.25	6.00
DLP-2B	BSP 1" Male	20 SCFM	1 psid at 20 SCFM	4.75	3.25	6.00

Adapters

The reservoir breather adapter kit offer constant protection during the transition phase of fluid storage. Whether it is draining or filling, the action can be performed through the air tight seal provided by the adapter kit. This ensures airborne contamination is minimized and the breather protection is upheld consistently. Current adapters are designed to be used for either drum or tote storage, and equipped with high performing desiccant breathers.

DK-DAB Drum Adaptor Kit

DK-DAB
(includes both)

DK
(Not including breather)

Specifications

Breather:	D-AB-4
Suction:	Gold 2" drum bung adapter with 1" threaded breather port 33" stainless steel 3/4" downtube cut at 45 degree angle 1" male ISO-B quick disconnect with dust cap
Discharge:	24" stainless steel 1/2" down tube for return to drum 3/4" drum bung adapter 3/4" male ISO-B quick disconnect with dust cap

Features and Benefits

- Easy integration to your equipment for a seamless connection to Schroeder filtration systems
- Prevents the ingression of dirt and moisture by utilizing a Schroeder D-AB-4 desiccant breather
- Customizable to fit all your needs

TK-DAB Tote Adaptor Kit

TK-DAB
(includes both)

TK
(Not including breather)

Specifications

Breather:	D-AB-4
Discharge:	Gold 2" Tote Adapter with 1" threaded breather port 3/4" male ISO-B quick disconnect with dust cap 24" flexible return hose
Suction:	3/4" tee with 1" MNPT for tote bottom suction port connection Self closing gravity feed dispenser valve 1" Male ISO-B quick disconnect with dust cap

With quick connects via the 1" NPT threaded adapter, this allows your system to remain completely sealed to atmospheric ingression, while allowing for easy access during offline filtration or topping off reservoirs.

Features and Benefits

- Easy integration to your equipment for a seamless connection to Schroeder filtration systems
- Prevents the ingression of dirt and moisture by utilizing a Schroeder D-AB-4 desiccant breather
- Customizable to fit all your needs
- Offered in 1" NPT connection for easy connection on most poly totes
- Spring loaded faucet for easy dispensing

Introduction

Protecting the pump is an integral step in ensuring system longevity. Installing a suction strainer will stop the larger pieces of unwanted debris from entering the suction line causing catastrophic problems downstream. Schroeder Industries offer two types of strainers: standard metal based suction strainers and magnetic suction separators.

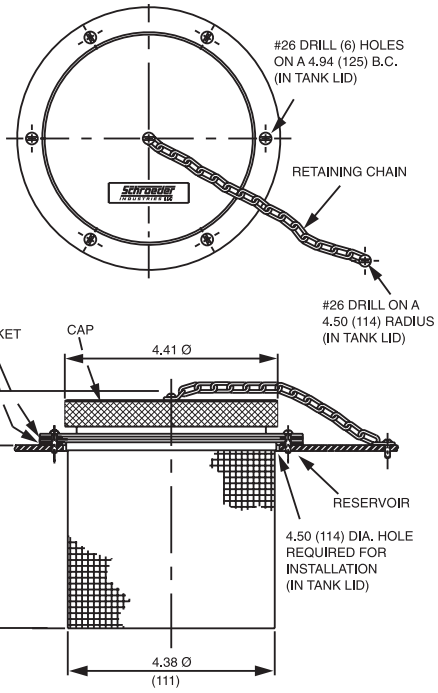
Schroeder's Magnetic Suction Separators offer unique protection for pumps suction line from all sizes of ferrous particles without starving the pump.

The all metal suction strainers are furnished with optimized pleat size and screen area for extended life and low pressure drop. 100 mesh stainless steel screens (140 micron) has 33.3% open area. Porting head is carbon steel; center core is plated perforated steel. End cap is heavy gauge zinc plated steel. These strainers can handle temperatures up to 250°F (121°C). 60 mesh (238 micron) and 200 mesh (74 micron) models also available – contact factory

Filler Strainer Assemblies

A-TB-779 **A-TB-780**

Speed the process of adding fluid to a reservoir by using our rapid fill cap and strainer. The strainer is 4.38" in diameter and designed to accept cold viscous fluids easily. Choose from two strainer mesh sizes: A-TB-779, which features #24 mesh, and A-TB-780, which is supplied with #70 mesh. The cap completely seals the opening. All assemblies are supplied with necessary hardware, including retaining chain for cap and self tapping screws for installation.



Specifications: A-TB's

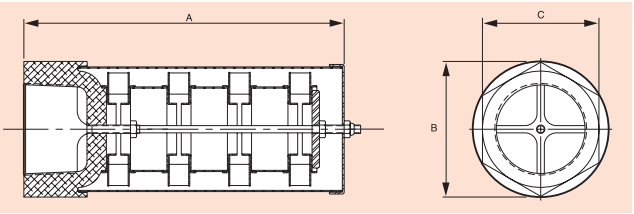
Model Number	Mesh Size	Strainer O.D.	Strainer Height	Flange Diameter
A-TB-780	70	4.38	3.94	5.56
A-TB-779	24	(111)	(100)	(141)

Metric dimensions in ( ).

Magnetic Suction Separators

With the use of Schroeder's Magnetic Suction Separators, suction line filtration is provided without starving the pump. They offer unique protection for pumps from all sizes of ferrous particles, some of which have the potential of destroying a pump in a single pass. Large ceramic magnets are spaced along the length of the separator. All hydraulic fluid entering the pump must move at low velocity through a powerful magnetic field. This field traps large quantities of micronic ferrous particles. The viscous properties of the fluid can cause some non-ferrous particles to adhere to the magnetically trapped particles.

Schroeder SKB's are available in sizes ranging from one to three inches. The chart below shows the part numbers, specifications, and dimensions of available models.



Complete Model Number	Pipe Size	Flow gpm	Δ psi at Max. gpm	Dimensions		
				A	B	C
SKB-1	1"	15 (55)	0.05	5.25 (133)	3.25 (83)	1.62 (41)
SKB-1.25	1¼"	25 (95)	0.05	8.25 (210)	3.50 (89)	3.00 (76)
SKB-1.5	1½"	35 (135)	0.08	8.25 (210)	3.50 (89)	3.00 (76)
SKB-2	2"	50 (190)	0.10	8.25 (210)	3.50 (89)	3.00 (76)
SKB-3	3"	100 (380)	0.02	10 (254)	4.75 (121)	4.00 (102)

Metric dimensions in ( ).

The standard outer screen has adequate open area (.079 inch diameter perforations) to eliminate the possibility of pump starvation. All models are also available with a pleated 20 mesh screen (850 micron) by adding SS20 to the model number. (Example SKB-1-SS20.)

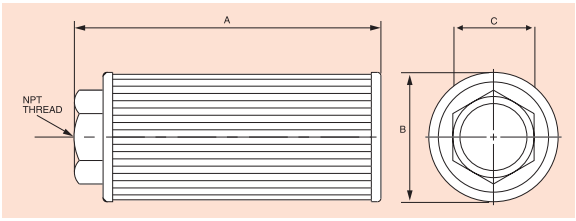
Please note that we also offer in-line filter housings equipped with SKB elements. See In-Line Magnetic Suction Separators and Tank-Mounted Magnetic Suction Separators (pages 287-290) for details.

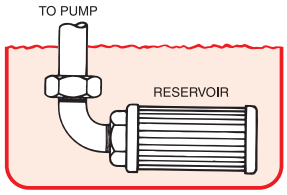
Suction Strainer Elements

SS Tank Mounted Suction Strainer Elements

These all metal suction strainers are furnished with optimized pleat size and screen area for extended life and low pressure drop. 100 mesh stainless steel screen (140 micron) has 33.3% open area. Porting head is carbon steel, center core is plated perforated steel. End cap is heavy gauge zinc plated steel. These strainers can handle temperatures up to 250°F (121°C).

60 mesh (238 micron) and 200 mesh (74 micron) models also available – contact factory.





* Flow rating based on 5 FPS or less.

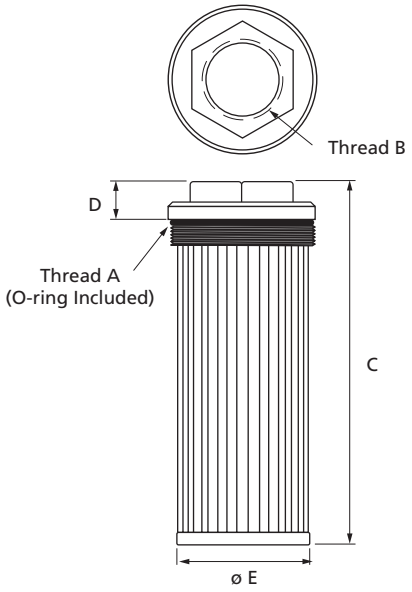
** denotes coupling instead of bushing

Metric dimensions in ( ).

Examples: SS-2-100 SS suction strainer, 2" NPT, without bypass valve.
SS-1-100-3 SS suction strainer, 1" NPT, with 3 psi bypass valve.

Model Number				Other Information			
Basic Model	Optional 3 psi Bypass	Pipe Size	Flow* gpm (L/min)	Dimensions A	Dimensions B	Dimensions C	Screen Area in2 (cm2)
SS-.5-100	(Omit) = None -3 = Bypass valve	½"	5 (19)	3.10 (79)	2.63 (67)	1.12 (28)	68 (439)
SS.75-100		¾"	8 (30)	3.55 (90)	2.63 (67)	1.31 (33)	68 (439)
SS-1-100		1"	10 (38)	5.35 (136)	2.63 (67)	1.62 (41)	112 (723)
SS-1.25-100		1¼"	20 (76)	6.85 (174)	3.38 (89)	1.88 (48)	165 (1065)
SS-1.5-100		1½"	30 (114)	8.01 (204)	3.38 (89)	2.12 (54)	251 (1619)
SS-2-100		2"	50 (189)	9.85 (250)	3.94 (100)	2.75 (70)	351 (2265)
SS-2.5-100		2½"**	75 (284)	10.10 (257)	5.12 (130)	3.22 (82) Round Coupling	405 (2613)
SS-3-100		3"**	100 (379)	11.83 (300)	5.12 (130)	4.00 (102) Round Coupling	502 (3239)

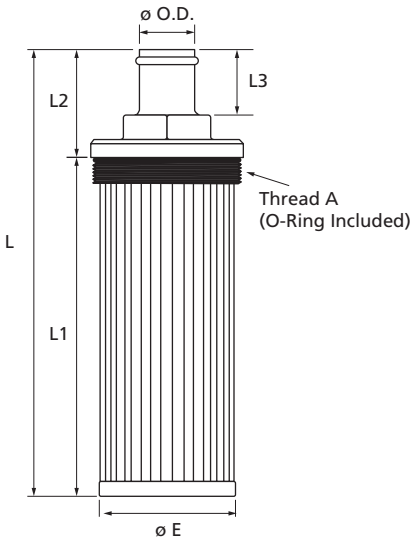
SSO Tank Mounted Suction Strainer Elements



These suction strainers have O-ring built in for a more secure fitting. The suction strainers can be supplied with a bypass valve to reduce high pressure drop caused by contaminated elements or high viscosity fluids during cold starting.

Model Code	Optional 3 psi Bypass	Per SAEJ514 THD A	Per SAEJ514 THD B	Hex Size	GPM	Screen Area (Sq. In.)	Dimensions C	Dimensions D	Dimensions ØE
SSO-20-100	(Omit) = None (-3) = Bypass valve	2-1/2"-12	1-5/8"-12	2.13"	9	90	9.00"	0.75"	2.24"
SSO-24-100		3-3/8"-12	1-7/8"-12	2.50"	21	230	8.80"	0.90"	3.22"
SSO-32-100		3-3/8"-12	2-1/2"-12	3.00"	39	230	9.30"	0.98"	3.22"

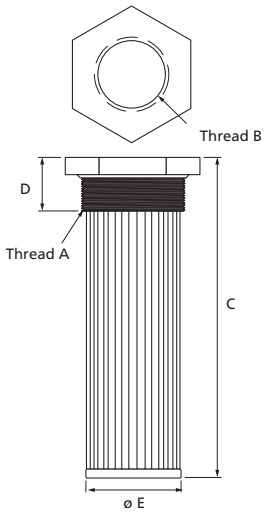
Suction Strainer Elements



These suction strainers have additional fittings attached for hose barb settings.

Hose Barb | SSHB Tank Mounted Suction Strainer Elements

Model Code	Optional 3 psi Bypass	Per SAEJ514 THD A	Per SAEJ514 O.D.	Hex Size	GPM	Dimensions L	L1	L2	L3	E
SSHB-1.25-100	(Omit) = None	2-1/2"-12	1.25"	1.50"	14	10.00"	8.00"	2.00"	1.25"	2.12"
SSHB-2-100	(-3) = Bypass valve	3-3/8"-12	2.00"	2.50"	40	10.80"	7.84"	2.97"	2.00"	3.22"



These suction strainers have external fitting installed for male NPT ports.

NPT Tank Mounted Suction Strainer Element

Model Code	Optional 5 psi Bypass	GPM	Screen Area (Sq. In.)	THD A	THD B	Hex Size	Dimensions C	D	ØE
SSP-2-100	(Omit) = None	50	260	3" NPT	2" NPT	3.30	10.25"	1.70"	3.03"
SSP-3-100	(-5) = Bypass valve	100	315	4" NPT	3" NPT	5.00	11.30"	1.80"	3.78"

SAE Weld Flanges

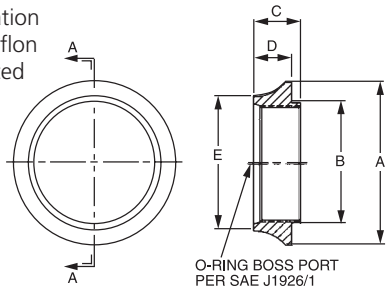
SAE Weld Flanges

Available immediately, Schroeder has a line of reservoir weld flanges. These flanges have SAE female O-ring port threads and are intended to be welded into a reservoir.

- Fewer leaks
- Cleaner installation
- Reduced cavitation of pumps/aeration of oil when used on suction lines
- Faster assembly time
- Reduced contamination (no pipe dope or Teflon tape being introduced into the system)

Specifications

Flange material: Forged steel
Flange finish: Black phosphate (suitable for welding)
Port sizes: See chart below for listing of available port sizes



SECTION A-A

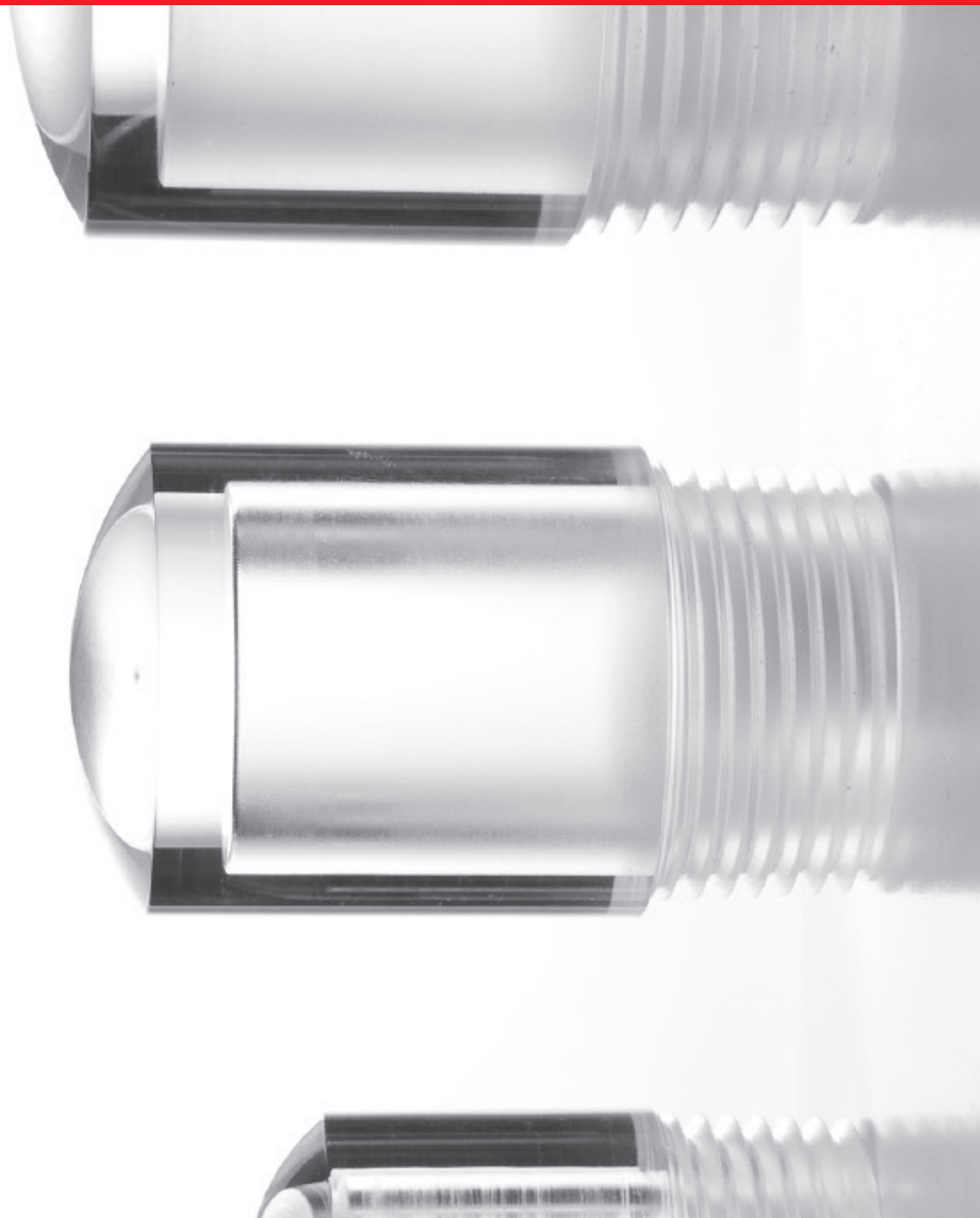
Part Number	SAE Size	Port Thread Size	Dimensions - inches (mm)				
			A	B	C	D	E
WF-4	SAE-4	7/16"- 20 UNF-2B	1.50 (38)	0.93 (24)	0.56 (14)	0.31 (8)	1.00 (25)
WF-5	SAE-5	1/2"- 20 UNF-2B	1.50 (38)	0.93 (24)	0.56 (14)	0.31 (8)	1.00 (25)
WF-6	SAE-6	9/16"-18 UNF-2B	1.50 (38)	0.93 (24)	0.56 (14)	0.31 (8)	1.00 (25)
WF-8	SAE-8	3/4"- 16 UNF-2B	1.50 (38)	0.93 (24)	0.56 (14)	0.31 (8)	1.00 (25)
WF-10	SAE-10	7/8"- 14 UNF-2B	2.13 (54)	1.38 (35)	0.69 (18)	0.44 (11)	0.44 (11)
WF-12	SAE-12	1 1/16"- 12 UNF-2B	2.13 (54)	1.38 (35)	0.69 (18)	0.44 (11)	0.44 (11)
WF-14	SAE-14	1 3/16"- 12 UNF-2B	2.38 (60)	1.66 (42)	0.75 (19)	0.50 (13)	1.75 (44)
WF-16	SAE-16	1 5/16"- 12 UNF-2B	2.38 (60)	1.66 (42)	0.75 (19)	0.50 (13)	1.75 (44)
WF-20	SAE-20	1 5/8"- 12 UNF-2B	2.69 (68)	2.00 (51)	0.75 (19)	0.50 (13)	2.13 (54)
WF-24	SAE-24	1 7/8"- 12 UNF-2B	3.00 (76)	2.25 (57)	0.75 (19)	0.50 (13)	2.38 (60)
WF-32	SAE-32	2 1/2"- 12 UNF-2B	3.50 (89)	2.63 (67)	0.84 (21)	0.59 (15)	2.88 (73)
WF-48	SAE-48	3 3/8"- 12 UNF-2B	4.63 (118)	3.66 (93)	1.00 (25)	0.81 (21)	3.94 (100)

NOTE:

WF-48 has 3 3/8-12 O-ring thread that was extrapolated from SAE standard threads

Section 5:

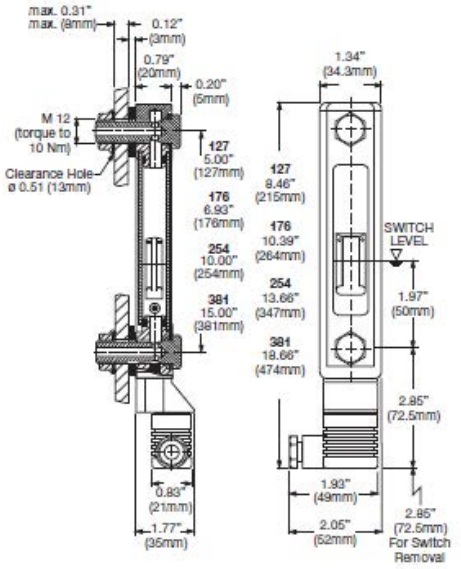
OIL SIGHT GLASSES

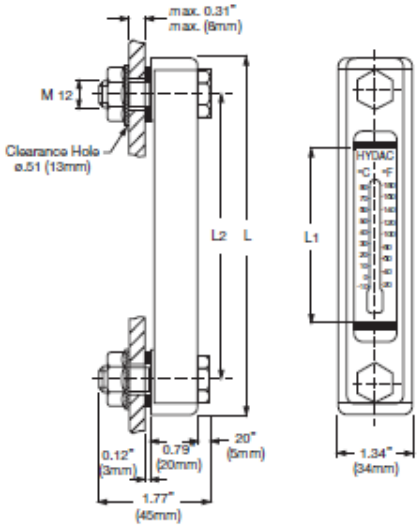


Fluid Level Indicators

SLG Fluid Level Indicator

When seeing and maintaining the level of oil in your reservoir is critical, the Sight Level Gauge (SLG) provides constantly monitoring of the oil level in the reservoir.





Model Code	Size	Dimensions		
		L	L1	L2
SLG-3	76	4.25"	1.46"	2.99"
SLG-5	127	6.26"	2.99"	5.00"
SLG-10	254	11.26"	7.99"	10.00"

Fluid Level Indicators

The FSK fluid level sensor monitors the tank fluid level via an electrical switching signal. This switch signal can be used for a warning or to control the fluid level. The fluid enters the unit via the lower connection bore and pushes a float up the tube. The float now shows the fluid level in the tank. If the level of the fluid drops again, the float will activate a switch contact. Switching contacts can either be Type O (opens when fluid is at low level), Type C(closes when fluid is at low level), or type W(dual switching mode) which can be used either to close on contact or to open on contact.

FSK

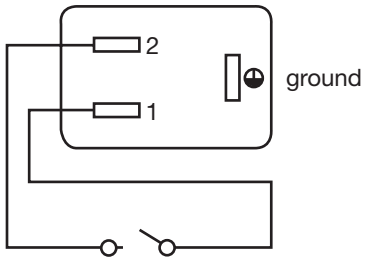
Contact Ratings:	Max. BW
Maximum Voltage:	50V AC or DC
Maximum Current:	200 mA (magnetic float inside the tube trips switch when fluid level drops within 50mm of lower bolt. See illustration

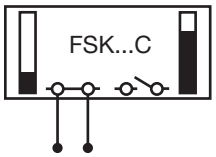
Specifications

NOTE:
FSA/FSK not suitable for use with glycol or fluids containing glycol.

Electric Level Switch

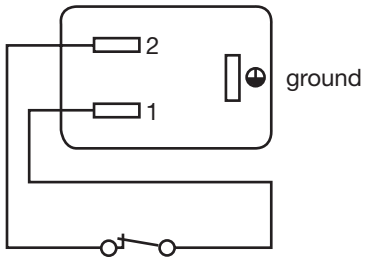
FSK...C *(open at normal level)*

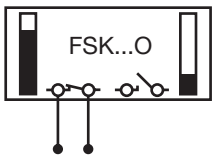




Contacts **CLOSE**
when fluid level drops
BELOW switching level

FSK...O *(closed at normal level)*





Contacts **OPEN**
when fluid level drops
BELOW switching level

Electrical Specifications

Contact Ratings

- Max. 8W

Maximum Voltage

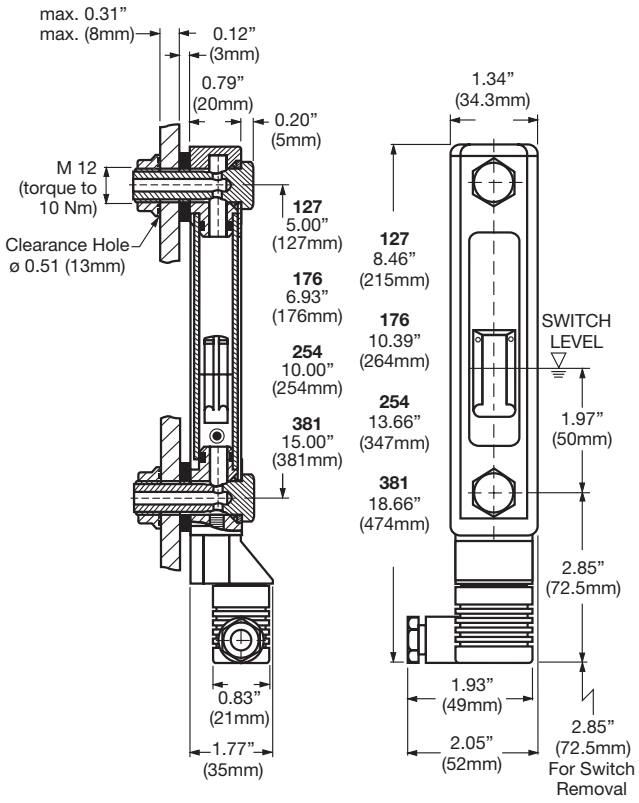
- 50V AC or DC

Maximum Current

- 200 mA

Magnetic Float inside tube trips switch when fluid level drops within 50mm of lower bolt. *(see illustration)*

Fluid Level Indicators



Sensor Model Number Selection

How to Build a Valid Model Number for a Schroeder FSK

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8
FSK							

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	
FSK	127	2	4	C		12		**= FSK12724C12**

BOX 1 — Model Number

FSK

BOX 2 — Size (mounting hole centers)

127 = 5″
176 = 7″
254 = 10″
381 = 15″

BOX 3 — Seals

2 = Fluorocarbon

BOX 4 — Modification Number

4 = FSK (determined by manufacturer)

BOX 5 — Electrical Switch

C = Open at normal level

O = Closed at normal level

BOX 6 — Thermometer

Omit = No thermometer (standard)
FT 100 = 3.94″ (100 mm)
FT 200 = 7.87″ (200 mm)
FT 300 = 11.87″ (300 mm)
TS = Thermo Switch

BOX 7 — Hex Head Bolt

12 = M12 x 1.75 bolt

BOX 8 — Sight Tube

Omit = Polyamide construction
SO14 = Glass tube construction

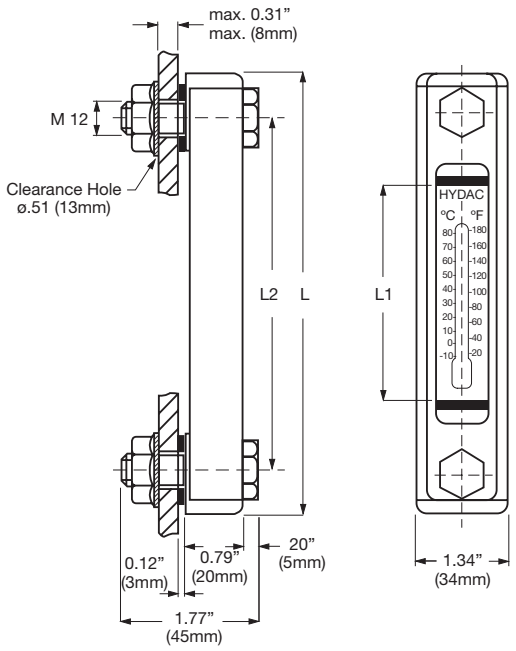
NOTE:

On instruments with a different modification number, please read the label or the technical amendment details supplied with the instrument.

Fluid Level Indicators

By Using the FSA, The fluid level can be easily seen on the outside of the tank. The fluid enters the unit via the lower connection bore and is clearly vi-sable in the tube. By selecting the right size, the tank fluid level can be visually monitored.

FSA



Size	L	L1	L2
76	4.25" (108mm)	1.46" (37mm)	2.99" (76mm)
127	6.26" (159mm)	2.99" (76mm)	5.00" (127mm)
176	8.19" (208mm)	4.92" (125mm)	6.93" (176mm)
254	11.26" (286mm)	7.99" (203mm)	10.00" (254mm)
381	16.26" (413mm)	12.99" (330mm)	15.00" (381mm)

NOTE: FSA/FSK not suitable for use with glycol or fluids containing glycol.

How to Build a Valid Model Number for a Schroeder FSK

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7
FSA						

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	
FSA	76	1	0		12		**= FSA761012**

BOX 1 — Model Number

FSA

BOX 2 — Size (mounting hole centers)

76 = 3"
127 = 5"
176 = 7"
254 = 10"
381 = 15"

BOX 3 — Seals

1 = NBR
2 = Fluorocarbon

BOX 4 — Housing Material

0 = Steel (only for SO14 glass tube construction)
1 = Aluminum
2 = ABS Plastic

BOX 5 — Thermometer

Omit = No thermometer (standard)
T = Built-in Tube
FT 100 = 3.94" (100 mm)
FT 200 = 7.87" (200 mm)
FT 300 = 11.87" (300 mm)
TS = Thermo Switch

BOX 6 — Hex Head Bolt

12 = M12 x 1.75 bolt

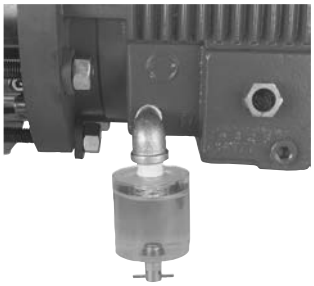
BOX 8 — Sight Tube

Omit = Polyamide construction
SO14 = Glass tube construction

Oil Sight Glasses

Schroeder Oil Sight Glasses provide maintenance and lubrication management professionals a complete and immediate visual oil analysis. Constructed of durable cast acrylic, they withstand most petroleum products to remain crystal clear. Although easy detection and discharge of water contamination are leading benefits, operators can also visually monitor the oil for discoloration or debris. The drain valve is made from brass with a vulcanized rubber seal. Both materials have excellent resistance to hydrocarbon and petroleum-based products, hydraulic fluids, most silicone fluids, and fuels. A detailed chemical resistance chart is available upon request.

Our Oil Sight Glass product line includes models for vertical and horizontal mounting, high temperature applications, large volume bowls, level indication and the all encompassing Oil Sight Glass and Level Monitor. The revolutionary 3-D Oil Sight Glass can replace the problematic, old-fashioned sight plug on your oil reservoir to provide greater visibility.



Benefits

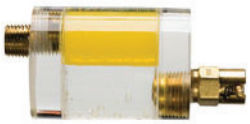
- Withstand most petroleum products to remain crystal clear
- Continuously monitor oil level and condition
- Extremely low maintenance
- Low purchase and installation costs
- Save expensive equipment through early detection and action

For many systems the 1 oz. Oil Sight Glass is adequate. The 3 oz. Oil Sight Glass provides additional volume and should be used when the condensation or water spillover is excessive. Schroeder also offers 16 oz. and 32 oz. Oil Sight Glasses for special applications that require the ability to accumulate substantial volumes of water due to large oil reservoirs, high condensation problems or excessive water spillover. Even larger sizes and unique configurations are available for special applications.

VERTICAL

	1 oz. Oil Sight Glass	3 oz. Oil Sight Glass
Outside Diameter:	1.75 (44)	2.50 (64)
Length:	2.38 (60)	2.38 (60)
Maximum psi (bar):	225 (16)	200 (14)
Operating Temperature:	-40°F to 165°F	-40°F to 165°F
-40°C to 74°C	-40°C to 74°C	
Specifications:	Commercial grade acrylic Brass drain valve ¼", ⅜" or ½" NPT brass nipples Vertical and horizontal styles Available in 16 oz and 32 oz sizes Stainless steel hardware available	

Metric dimensions in ( ).



HORIZONTAL

Horizontal Oil Sight Glass

The *Horizontal* Oil Sight Glass is designed to be installed on equipment that has restricted vertical clearance. The design has the mounting nipple and drain valve eccentrically machined and oriented 180° apart. This provides the same ability to discharge any accumulated water.

How to Order

Part No.	Description	Part No.	Description
OSG1X250	Vertical 1 oz ¼" NPT	OSG1X250HZ	Horizontal 1 oz ¼" NPT
OSG1X375	Vertical 1 oz ⅜" NPT	OSG1X375HZ	Horizontal 1 oz ⅜" NPT
OSG1X500	Vertical 1 oz ½" NPT	OSG1X500HZ	Horizontal 1 oz ½" NPT
OSG3X250	Vertical 3 oz ¼" NPT	OSG3X250HZ	Horizontal 3 oz ¼" NPT
OSG3X375	Vertical 3 oz ⅜" NPT	OSG3X375HZ	Horizontal 3 oz ⅜" NPT
OSG3X500	Vertical 3 oz ½" NPT	OSG3X500HZ	Horizontal 3 oz ½" NPT
OSG16X500	Vertical 16 oz ½" NPT		
OSG32X500	Vertical 32 oz ½" NPT		

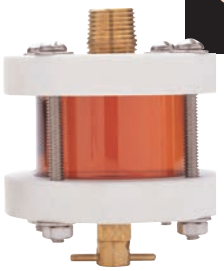
Oil Sight Glasses

High Temperature Oil Sight Glass

When oil operating temperatures or radiant heat from adjacent equipment are continually in excess of 165°F, you should consider utilizing the Schroeder High Temperature Oil Sight Glass.

	1 oz. Oil Sight Glass	3 oz. Oil Sight Glass
Outside Diameter:	2.75 (70)	3.50 (89)
Length:	2.50 (64)	2.50 (64)
Maximum psi (bar):	225 (16)	225 (16)
Operating Temperature:	450°F 232°C	450°F 232°C
Specifications:	Heavy-walled Pyrex glass TeflonTM end plates Stainless steel nuts and bolts Viton® O-rings Brass drain valve ¼", ⅜" or ½" NPT brass nipples Vertical style only Stainless steel hardware available	

Metric dimensions in ( ).



How to Order

Part No.	Description
OSG1X250HT	High Temp 1 oz ¼" NPT
OSG1X375HT	High Temp 1 oz ⅜" NPT
OSG1X500HT	High Temp 1 oz ½" NPT
OSG3X250HT	High Temp 3 oz ¼" NPT
OSG3X375HT	High Temp 3 oz ⅜" NPT
OSG3X500HT	High Temp 3 oz ½" NPT

Magnet Option

Any oil sight glass can be equipped with a rare earth magnet that attracts and holds microscopic ferrous particles in your oil. Further analysis of these particles can help determine what component is failing for replacement. The magnet drain valve is easily interchanged with the standard drain valve on any OSG product.

Oil Sight Glasses

Oil Sight Glass & Level Monitor

When seeing and maintaining the level of oil in your reservoir is critical, the Oil Sight Glass and Level Monitor (OSGL) provides all the benefits of the OSG plus the ability to constantly monitor the level of the reservoir oil. The dual port model has a second ⅜" NPT thread at 180° to allow the installation of a drain valve or access to the oil reservoir utilizing a pilot tube and a pilot sample adapter. This all-in-one product provides continuous monitoring of the clarity, color, sediment, water contamination and level of the oil.

Outside Diameter:	1.75 (44)
Length:	3" (76), 6" (152), 9" (229), 12" (305), 15" (381), 18" (457), 24" (610), or custom available
Maximum psi (bar):	225 (16)
Operating Temperature:	-40°F to 165°F -40°C to 74°C
Specifications:	Commercial grade acrylic Brass drain valve ⅜" NPT brass nipples Available in dual port version with a second ⅜" NPT port Stainless steel hardware available

Metric dimensions in ( ).

How to Order

Part No.	Description
OSGL3	OSG and Level Monitor 3" (76)
OSGL6	OSG and Level Monitor 6" (152)
OSGL9	OSG and Level Monitor 9" (229)
OSGL12	OSG and Level Monitor 12" (305)
OSGL3DP	OSG and Dual Port Level Monitor 3" (76)
OSGL6DP	OSG and Dual Port Level Monitor 6" (152)
OSGL9DP	OSG and Dual Port Level Monitor 9" (229)
OSGL12DP	OSG and Dual Port Level Monitor 12" (305)
OSGL15	OSG and Level Monitor 15" (381)
OSGL18	OSG and Level Monitor 18" (457)
OSGL24	OSG and Level Monitor 24" (610)
OSGL15DP	OSG and Dual Port Level Monitor 15" (381)
OSGL18DP	OSG and Dual Port Level Monitor 18" (457)
OSGL224DP	OSG and Dual Port Level Monitor 24" (610)

Oil Sight Glasses

The 3-D Oil Sight Glass is machined from one solid piece of impact resistant, high strength, stain-resistant cast acrylic. It has excellent resistance to hydrocarbon and petroleum-based products, hydraulic fluids, most silicone fluids, and fuels. Replaces problematic, old-fashioned oil level sight plugs. Fits virtually every oil reservoir. Revolutionary easy view design is visible from virtually any angle, minimizing false positives.

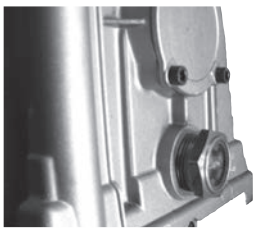
3-D Oil Sight Glass

NPT:	½", ¾", 1", 1¼", 1½", 2"
Outside Diameter:	⅞", 1⅛", 1⅜", 1¾", 2", 2½"
Length:	1", 1½" from last thread. Metric and custom sizes available.
Maximum psi (bar):	300 (21)
Operating Temperature:	200°F (93°C) at 66 psi (5 bar) 230°F (110°C) at atmospheric pressure

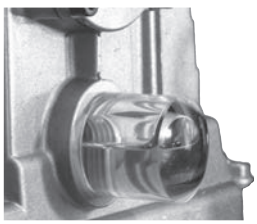
Metric dimensions in ( ).

How to Order

Part No.	Description	Part No.	Description
3DBM10X1.0	Metric 10 x 1.0	3DB0250	¼" NPT
3DBM10X1.5	Metric 10 x 1.5	3DB0375	⅜" NPT
3DBM12X1.5	Metric 12 x 1.5	3DB0500	½" NPT
3DBM16X1.5	Metric 16 x 1.5	3DB0750	¾" NPT
3DBM20X1.5	Metric 20 x 1.5	3DB1000	1" NPT
3DBM22X1.5	Metric 22 x 1.5	3DB1250	1¼" NPT
3DBM24X1.5	Metric 24 x 1.5	3DB1500	1½" NPT
3DBM26X1.5	Metric 26 x 1.5	3DB2000	2" NPT
3DBM27X1.5	Metric 27 x 1.5		
3DBM30X2.0	Metric 30 x 2.0		
3DBM33X1.5	Metric 33 x 1.5		



BEFORE

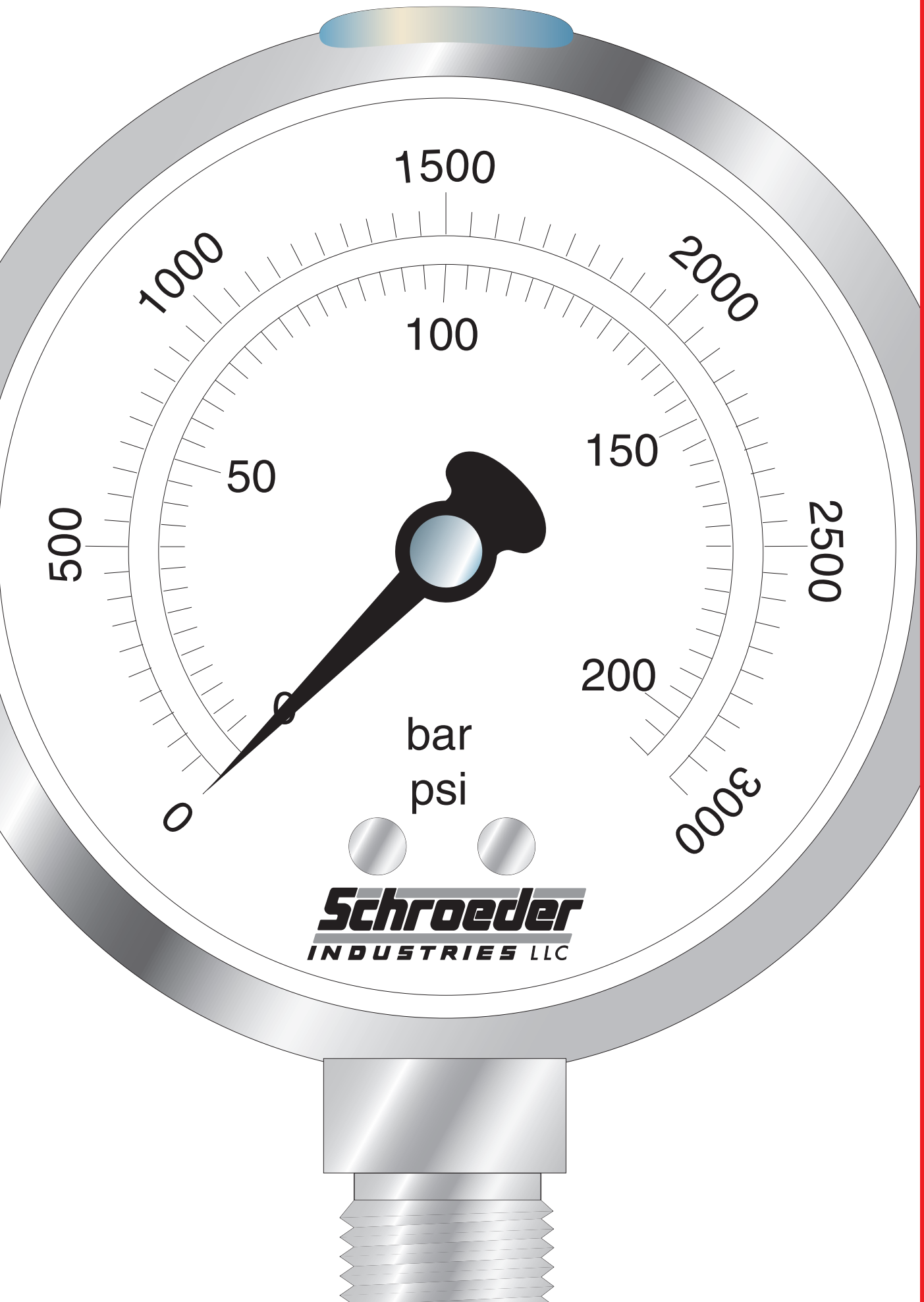


AFTER

Notes Section:

Section 6:

SCHROEDER CHECK



Schroeder Check Test Point System

Introduction

Schroeder Check test points provide a fast easy and safe way to test pressures up to 10,000 psi (680 bar) in hydraulic systems under operation. They are available in both 1620 (M16x20) and 1215 (M12x1.5) reverse buttress connections threads with a variety of screw port threads. The standard poppet style features a primary and secondary seal, providing for absolute sealing of fluid. The design allows connection by hand at pressures up to 10,000 psi (680 bar) without any loss of fluid. Metal caps and Buna seals are standard and each hydraulic test point is individually checked for quality assurance.

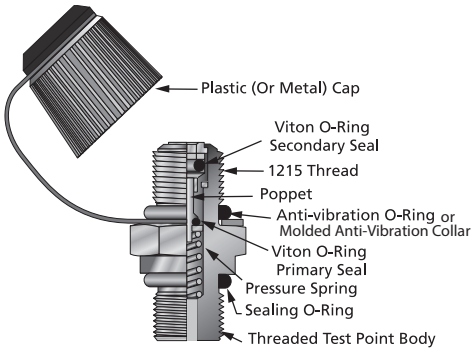
In addition to functioning as a secure access point for checking pressure, they can also be effectively used for collecting oil samples for subsequent testing or bleed air from a hydraulic system. Schroeder check test point can be used in conjunction with gauge adapters, pressure gauges, microflex hoses, and pressure gauge test kits.

Our hydraulic test point design allows easy, comfortable, and safe access to high pressure system enabling measuring , sampling, and filling without interfering with installation. Even connect and disconnect sensors at running installation for easy diagnosis and fluid condition monitoring.

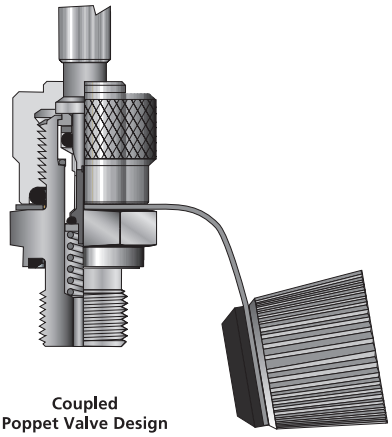
Benefits

- No mess, no-leak design means sealing is complete before connection is made to hydraulic system.
- No tools - simply hand tighten gauge, transducer or hose adapter onto Schroeder Check test points under full pressure to 10,000 psi (680 bar)
- No contamination - proper use of test points eliminates the introduction of contaminants into a hydraulic system

Schroeder Check Test Point System



Uncoupled
Poppet Valve Design



Coupled
Poppet Valve Design

Test Points

Description

Schroeder Check Test point provide an easy, efficient and Safe method for testing pressure up to 10,000 psi (680 bar) in a hydraulic system during operation. Available in 1620 threads as a standard and 1215 as an option, the test point are available in a variety threads for the circuit thread of the test point. Utilizing a dual seal poppet design, that incorporated a primary and secondary soft seal and a hard seal on the end of the piston Schroeder Check Test points are capable of sealing completely allowing no leakage in hydraulic applications. This design permits connection of Microflex hoses in tandem with the Schroeder Check test point during machine operation safely by hand up to 10,000 psi (680 bar) with no loss of fluid. All Schroeder Check Test Points are equipped with a standard Metal (or Plastic) cap.

In Addition to serving as a secure access point for checking pressure during trouble shooting, test points can also be used to obtain oil samples for testing or to bleed air from a hydraulic circuit. Schroeder Check test points can be used in conjunction with gauge adapters, pressure gauges, Microflex hoses and the pressure gauge kits.

Features

- No Mess
  No-leak design means sealing is complete before connection is made to hydraulic system.
- No Tools
  Simply hand tighten gauge, transducer or hose adapter onto Schroeder Check test points under full pressure to 10,000 psi (680 bar).
- No Contamination
  Proper use of test points eliminates the introduction of contaminants into a hydraulic system.

Applications

- Fluid sampling
- Air bleeding
- Connection for diagnostic products

Specifications

Maximum Working Pressure:	10,000 psi (680 bar)	
Materials:	Standard Body:	S12L14 AS 1442 (AISI-SAE composition)
	Metal Cap:	S12L14 AS 1442 (AISI-SAE composition)
	Poppet:	S12L14 AS 1442 (AISI-SAE composition)
	Secondary Seal:	Viton
	Ball:	Hard Chrome
	Seat:	Stainless Steel 316
Operating Temperature Range:	-22°F to +275°F (-30°C to +135°C)	

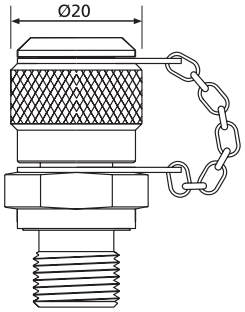
Optional materials include stainless steel body and stainless steel poppet.

Schroeder Check Test Point System

G Thread	Sealing System	Part Number
1/8" NPT	Thread	SP1620NPT18VM
1/4" NPT	Thread	SP1215NPT14VSSM SP1620NPT14VM
5/16"-24 UNF	Viton O-Ring	SP1215UN716VM
7/16"-20 UNF	Viton O-Ring	SP1620UN716VM SP1215UN716VSSM
9/16"-18 UNF	Viton O-Ring	SP1620UN916VM
1/8" BSPP	WD Seal NBR	SP1620G18WDM
1/4" BSPP	WD Seal NBR	SP1620G14WDM

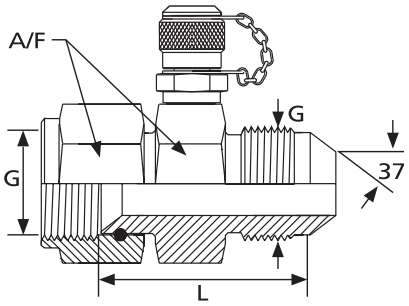
SP = Test point with poppet valve; SS = Stainless Steel; M = Metal Cap;
FP = Female Poppet
P = Plastic Cap
All Test Points have Viton® seals.

Preferred order codes designate shorter lead times and faster delivery.



Test Point with metal cap

JIC Male/ Female In-Line Test Points



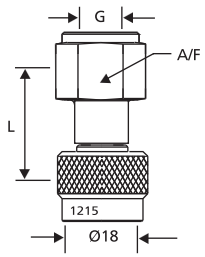
JIC according to SAE J514.
Male/female threads of the same size.

G Thread	Tube/Pipe dia	ΔP (max) psi (bar)	L in (mm)	A/F in (mm)	Part Number
7/16"-20 UNF	1/4"	4500 (315)	1.38 (35)	.51 (13)	SP1215L04JICP SP1620L04JICM
9/16"-18 UNF	3/8"	4500 (315)	1.38 (35)	.63 (16)	SP1215L06JICP SP1620L06JICM
3/4"-16 UNF	1/2"	4500 (315)	1.50 (38)	.83 (21)	SP1215L08JICVP SP1620L08JICM
1-1/16"-12 UNF	3/4"	4500 (315)	1.89 (48)	1.06 (27)	SP1215L12JICVP SP1620L12JICM
1-5/16"-12 UNF	1"	4500 (315)	1.97 (50)	1.38 (35)	SP1215L16JICP SP1620L16JICM

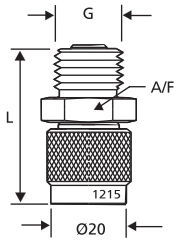
Preferred order codes designate shorter lead times and faster delivery.

Schroeder Check Test Point System

Direct Gauge Adapters



Type 1



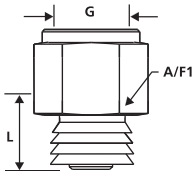
Type 2

There is no internal check valve in these parts. They are used to connect gauges and pressure transducers directly onto test points without use of Schroeder Microflex hose.

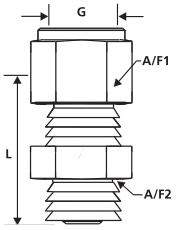
G Thread	Type	ΔP (max) psi (bar)	L in (mm)	A/F in (mm)	Part Number
1/4" NPT	1	10,000 (680)	0.83 (21)	0.75 (19)	S1215DCNPT14 S1215DCNPT14SS S1620DCNPT14
1/4" BSPP	1	10,000 (680)	0.83 (21)	0.75 (19)	S1215DCG14CU S1620DCG14CU
7/16" UNF	1	10,000 (680)	0.83 (21)	0.75 (19)	S1215DCUN716 S1620DCUN716
1/4" NPT	2	10,000 (680)	0.83 (21)	0.75 (19)	S1215DCMNPT14

Preferred order codes designate shorter lead times and faster delivery.

Gauge to Hose Adapters



Type 1



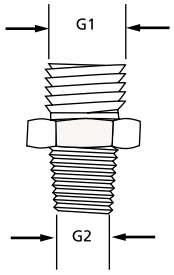
Type 2

There is no internal check valve in this arrangement. Type 1 is for direct connection of gauge to hose. Type 2 is for bulkhead connection of gauge to hose with bulkhead mounting.

G Thread	Type	Gauge Seal	L in (mm)	A/F1 in (mm)	A/F2 in (mm)	Part Number
1/4" NPT	1	Thread	1.34 (34)	0.75 (19)	—	S1215GANPT14 S1620GANPT14

Preferred order codes designate shorter lead times and faster delivery.

Change-Over Adapters



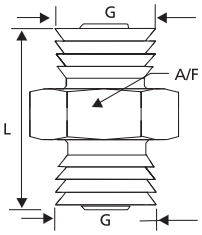
There is no internal check valve in this arrangement.

G1 Thread	G2 Thread	Part Number
M12 x 1.5	1/8" NPT Male	S1215NPT18P
M12 x 1.5	1/4" NPT Male	S1215NPT14
M12 x 1.5	1/4" NPT Male	S1215NPT14P

P = Plastic Cap

Preferred order codes designate shorter lead times and faster delivery.

Hose Joiners



G Thread	ΔP (max) psi (bar)	L in (mm)	A/F in (mm)	Part Number
System 1215	10,000 (680)	1.54 (39)	0.55 (14)	SJ1215
System 1620	10,000 (680)	1.54 (39)	0.55 (14)	SJ1620

Preferred order codes designate shorter lead times and faster delivery.

Schroeder Check Test Point System

Microflex Hoses

Perforated polyamide / kevlar hose, 2 mm ID, 5 mm OD, plastic dust cap.
Rated Differential Pressure 10,000 psi/680 bar max

How to Build a Valid Model Number for a Schroeder Check Test Point System:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5
SM2				

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	
SM2	NPT18		SS	12	**= SM2-NPT18-SS-012**

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	
SM2	NPT18	1215		12	**= SM2-NPT18-1215-12**

BOX 1

MicroHose Diameter
SM2
SM4

BOX 2

Hose End System (1st End)
1620
1215
NPT18 = 1/8 NPT (Male) Hose End
NPT14 = 1/4 NPT (Male) Hose End
NPFS14 = 1/4 NPT (Female Swivel) Hose End
J716 = 7/16 UNF (Male) Hose End
JFS716 = 7/16 UNF (Female Swivel) Hose End
J916 = 9/16 UNF (Male) Hose End

BOX 3

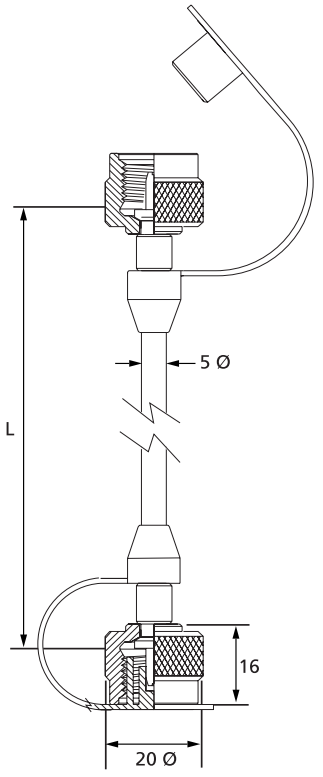
Hose End System (2nd End)
1620
1215
NPT18 = 1/8 NPT (Male) Hose End
NPT14 = 1/4 NPT (Male) Hose End
NPFS14 = 1/4 NPT (Female Swivel) Hose End
J716 = 7/16 UNF (Male) Hose End
JFS716 = 7/16 UNF (Female Swivel) Hose End
J916 = 9/16 UNF (Male) Hose End
Omit = Same as 1st end

BOX 4

Hose End Material Option
Omit = Carbon Steel
SS = Stainless Steel

BOX 5

Length (inches)
6
12
24
36
48
72
96



Preferred order codes designate shorter lead times and faster delivery.

4mm hoses are available for use with the TMU to allow adequate flow.

L in (mm)	ΔP (max) psi (bar)	Part Number
6 (200)	10,000 (680)	SM4-1620-06
12 (300)	10,000 (680)	SM4-1620-12
35 (890)	10,000 (680)	SM4-1620-35
71 (1800)	10,000 (680)	SM4-1620-71

Schroeder Check Test Point System

Schroeder Pressure Test Kits

- Schroeder Pressure Test Kits are available in four configurations as shown below. Highest quality components were selected for versatility and long service life. Contents of each kit are listed below.
- The optional gauge range should be specified using the order code shown above.
  For example: UB102-1-2 specifies one (1) 100 psi gauge and one (1) 200 psi

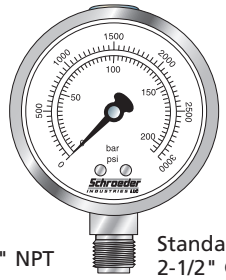
Part Number	UB101-(*)	UB102-(*)-(*)	UB103-(*)-(*)-(*)	UB106-(*)-(*)-(*)-(*)-(*)-(*)
	1 U401 Gauge (*)	2 U401 Gauges (*)-(*)	3 U401 Gauges (*)-(*)-(*)	6 U401 Gauges (*)-(*)-(*)-(*)-(*)-(*)
	1 Microflex Hose 36"	2 Microflex Hoses 36"/72"	3 Microflex Hoses 12"/36"/72"	6 Microflex Hoses, 2x12"/2x36"/2x72"
	1 Hose Joiner	1 Hose Joiner	1 Hose Joiner	3 Hose Joiners
	1 (Hose) Gauge Adapter	1 (Hose) Gauge Adapter	1 (Hose) Gauge Adapter	3 (Hose) Gauge Adapters
	1 Direct Gauge Adapter	1 Direct Gauge Adapter	1 Direct Gauge Adapter	3 Direct Gauge Adapters
	3 Schroeder Check Test Points:	6 Schroeder Check Test Points:	6 Schroeder Check Test Points:	12 Schroeder Check Test Points:
	1 ea. 1/4" NPT	2 ea. 1/4" NPT	2 ea. 1/4" NPT	4 ea. 1/4" NPT
	1 ea. 7/16" UNF	2 ea. 7/16" UNF	2 ea. 7/16" UNF	4 ea. 7/16" UNF
	1 ea. 9/16" UNF	2 ea. 9/16" UNF	2 ea. 9/16" UNF	4 ea. 9/16" UNF

Pressure test kits are also available with U400 all stainless steel gauges. Part numbers are U101–(*), U102–(*) -(*)…etc.

Schroeder Custom Test Kits

Custom Test Kits are designed for many special requirements. Utilizing components from Schroeder gauge and pressure test kits, these boxes are constructed for reliability and precision.

For additional information on custom test kits, please consult factory.



1/4" NPT Standard 2-1/2" Case

Pressure Gauges

With the Schroeder Check System, one top quality gauge can do the work previously done by many. Compromising on low cost, short life gauges with questionable accuracy is no longer necessary. A series of precision instruments, Schroeder gauges are fluid filled with full scale accuracy of ±1.5% (or better). Dual scale dial has a non-reflective white background and a high contrast matte black pointer. Cases and connections are stainless steel, internals are brass. Ideal for most liquids and gases under pressure or vacuum where contact with the liquid filling would not be hazardous. For additional applications, information, and pressure ranges, please consult the factory.

Part Number	Pressure	Order Code *(needed for test kits)*
U401-30/100-01*	30 in Hg VAC to 100 psi (6.9 bar)	0
U401-100-01	0 to 100 psi (6.9 bar)	1
U401-200-01	0 to 200 psi (13.8 bar)	2
U401-600-01	0 to 600 psi (41.2 bar)	6
U401-1000-01	0 to 1000 psi (70.0 bar)	10
U401-1500-01	0 to 1500 psi (103.0 bar)	15
U401-3000-01*	0 to 3000 psi (207.0 bar)	30
U401-5000-01	0 to 5000 psi (345.0 bar)	50
U401-6000-01*	0 to 6000 psi (414.0 bar)	60
U401-10000-01	0 to 10000 psi (689.0 bar)	100

*Also available is U400-XXX-01 gauge, identical to U401 except with stainless steel internals.

Preferred order codes designate shorter lead times and faster delivery.

Multi-Gauge

GS
Multi-Gauge

P/N GS-5

P/N GS-6U

Description

The Schroeder Multi-Gauge provides multiple pressure readings for hydraulic, transmission, and converter systems all in one compact enclosure. While one terminal connects all three gauges, the built-in gauge protector automatically protects the low and medium pressure gauges from high pressures. Each gauge is equipped with a high quality poppet valve. The Multi-Gauge is available with two types of connections: (1) the standard braided copper, flexible high pressure hose with male 1/8" pipe universal swivel fitting and (2) microbore flexhose and test point adapter (specified by U in the part number).

Features

- **Protects against overpressurization.** The 150 psi gauge can not be damaged when a 2500 psi system is being checked. This design feature eliminates the need to know the pressure before testing.
- **Simple yet rugged construction.** The dust and moisture proof steel case is provided with a rubber bumper for shock protection. A hanger is also provided on the case back for the user's convenience.
- **Compact and portable.** The GS-5 and GS-6 models are 6-1/2" and 8-1/2" in diameter. The GS-5 fits easily into the average tool box for instant availability.
- **Saves time.** The three pressure ranges and one vacuum range provided in one case meet most routine hydraulic maintenance requirements.

Specifications

	GS-5 & GS-5U	GS-6 & GS-6U
Case Diameter:	6.31 in (160 mm) O.D.	8.50 in (216 mm) O.D.
Gauge Diameter:	1.50 in (38 mm) O.D.	1.50 in (38 mm) O.D.
Approximate Weight:	3.25 lbs (1.47 kg)	4.5 lbs (2.0 kg)
Range:	Vacuum (30" Hg) to 5000 psi (345 bar)	Vacuum (30" Hg) to 6000 psi (3413 bar)
Case:	Steel with rubber bumper strip	Steel with rubber bumper strip
Vacuum Gauge:	30 in Hg	30 in Hg
Pressure Gauges:	0 to 150 psi (10 bar) 0 to 600 psi (41 bar) 0 to 5000 psi (345 bar)	0 to 300 psi (21 bar) 0 to 1000 psi (69 bar) 0 to 6000 psi (414 bar)

Model Number Selection

How to Build a Valid Model Number for a Schroeder GS:

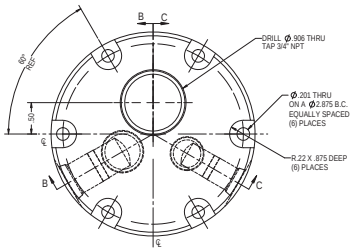
BOX 1		BOX 2
GS	–	

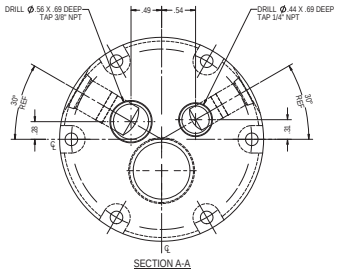
Example: *???*

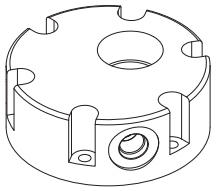
BOX 1		BOX 2
GS	–	5U

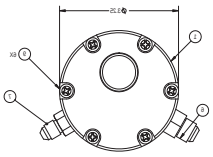
BOX 1	BOX 2	
Model	**Options**	
GS	5	Standard Multi-Gauge
	5U	Multi-Gauge with Microbore Flexhose and Test Point Adapter
	6	Multi-Gauge with 2-1/2" Liquid Filled Gauges
	6U	Multi-Gauge with 2-1/2" Liquid Filled Gauges, Microbore Flexhose and Test Point Adapter

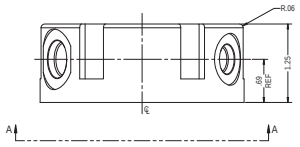
Reservoir Breather Fluid Sampling Adapter

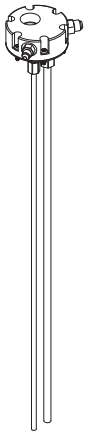


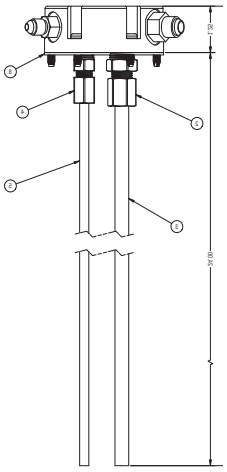


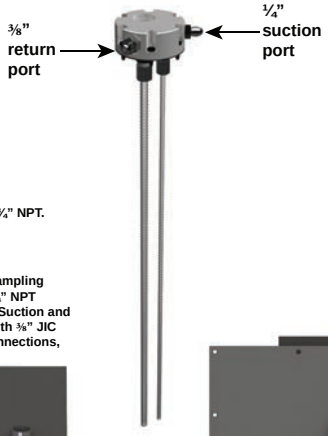


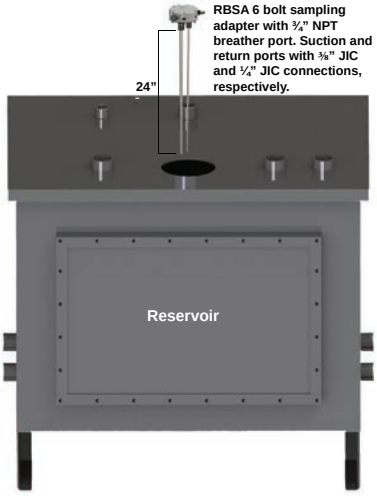


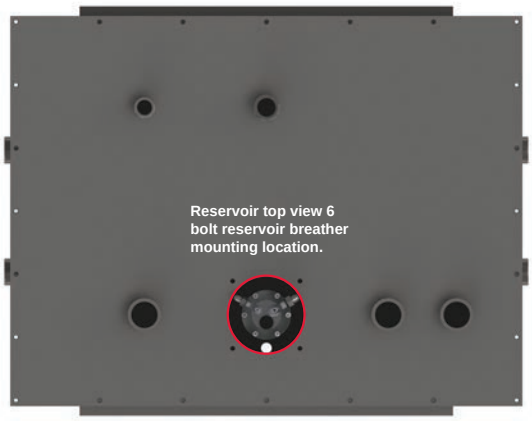












How to Build a Valid Model Number for a Schroeder Reservoir Breather Fluid Sampling Adapter RBSA:

BOX 1	BOX 2
RBSA –	

Example: *NOTE: Box 2 can have multiple options.*

BOX 1	BOX 2	
RBSA –	1	**= RBSA-1**

BOX 1

Model
RBSA

BOX 2

Options
1 = HY-TRAX® adapter fitting #6 & #4 JIC fittings and 6' supply/return hoses
2 = TMU adapter (suction hose included)

Probalizer Sampling Test Point

Bottle and cap sold separately under P/N LF-7374.

The Probalizer Sampling Test Point provides a point of access for obtaining representative fluid samples from an operational hydraulic system. The downstream channel is specially sized to accept the sampling probe from a customized cap/probe assembly screwed onto a sample bottle. (See photo). Use of this system minimizes leakage and helps to maintain the integrity of the sample.

Part Number:	LF-7611
Flow Rate:	400 mL/min @ 35 psi; 1000 mL/min @ 100 psi
Burst Pressure:	4500 psi (310 bar) min
Sampling Pressure Range:	1 to 100 psi (0.07 to 6.89 bar)
Mounting Thread:	1/4" NPT

Part Number Selection

Part Number	Description
LF-7611	Probalizer Sampling Test Point
LF-7374	Bottle and cap (pictured above)

Adjustable Pressure Limiters

The Schroeder Pressure Limiters are engineered to pressure gauges, pressure switches, transducers, and any pressure sensitive component from system shocks and spikes utilizing a high speed valve ideal for protecting downstream components. Preset at the factory, the Schroeder Pressure Limiter is supplied in any of six standard ranges.

Standard seals are Viton® with other sealing materials available on request.

Housing is aluminum, other parts are zinc-plated steel.

Gauge Connector is 1/4" NPT Female.

Part Number	Adjustable Range
U1200-01-01	75 to 150 psi (5.2 to 10.4 bar)
U1200-01-02	150 to 350 psi (10.4 to 24.1 bar)
U1200-01-03	350 to 1000 psi (24.1 to 69.0 bar)
U1200-01-04	1000 to 1500 psi (69.0 to 103.0 bar)
U1200-01-05	1500 to 3600 psi (103.0 to 248.0 bar)
U1200-01-06	3600 to 6000 psi (248.0 to 414.0 bar)

Note: All units shipped will be preset at the minimum pressure of its range, unless otherwise specified at time of purchase.

Best Filter Delivery Program

Schroeder Industries is pleased to announce the establishment of the Best Filter Delivery Program. We recognize that emergencies arise despite the best planning and forecasting efforts. To be able to offer support and service in these situations, we performed an analysis to determine our top selling filter model numbers. The result is a list of thirteen specific filter assemblies, comprising high pressure, medium pressure, return line, tank-mounted and spin-on models.

For all the models listed, guaranteed shipment is same day, provided we receive the purchase order by 1:00 pm EST. An option to specify element media other than that called for on the web page is available with a 5-day guaranteed ship date after receipt of order. No other substitutions are permitted.

At the onset of this program, a distributor/customer may be limited to a maximum quantity. This may be necessary to enable Schroeder to fulfill its guarantee of adequate inventory to all distributors alike.

The intent of this program is to provide our customers with access to the products they use most often. Therefore, as we witness shifts in filter usage, we will make changes to this list and update the corresponding web page accordingly.

We hope you and your customers find this new program useful in working through unforeseen crisis situations.

Family	Product	Specifications	Standard Part Number	Alternate Elements
High Pressure, Top-Ported	NF30	20 gpm, 3000 psi, SAE 1-1/16"-12 straight porting, cartridge dirt alarm	NF301NZ10SD5	N/A
High Pressure, Top-Ported	DF40	30 gpm, 4000 psi, SAE 1-5/16"-12 straight porting, cartridge dirt alarm	DF401CCZ3SD5	CC10, CCZ5
High Pressure, Base-Ported	GKF30	100 gpm, 3000 psi, 1 element, SAE 1-7/8"-12 straight porting, cartridge dirt alarm	GKF301KGZ10SD5	KG3, KG10, KG25, KGZ1, KGZ3, KGZ25
Low Pressure, Tank-Mounted	ZT	40 gpm, 100 psi, SAE 1-5/16"-12 straight inlet port, rear mounted tricolor visible dirt alarm	ZT8Z10SY2	N/A
Low Pressure, Tank-Mounted	GRT	100 gpm, 100 psi, 2 SAE 1.5" inlet ports, tricolor visible dirt alarm	GRT1KBGZ10S24S24NY2 (GRT-6915)	K3, K10, K25, KZ1, KZ3, KZ25
Low Pressure, Tank-Mounted	GRT	100 gpm, 100 psi, 1 SAE 1.25" straight inlet port, tricolor visible dirt alarm	GRT1KBGZ10S20NNY2 (GRT-6916)	KBG3, KBG10, BG25, KBGZ1, BGZ3,KBGZ25
Low Pressure, Tank-Mounted	LRT	150 gpm, 100 psi, 2 SAE 1.5" straight inlet ports, tricolor visible dirt alarm	LRT18LZ10S24S24NY2 (LRT-1820)	N/A
Low Pressure, Spin-On	PAF1	20 gpm, 100 psi, 3/4" NPTF porting, tricolor visible dirt alarm	PAF16PZ10PY2	N/A
Low Pressure, Top-Ported	GKF3	100 gpm, 300 psi, 1 element, SAE 1-7/8"-12 straight porting, cartridge dirt alarm	GKF31KGZ25SD5	KG3, KG10, KG25, KGZ1, KGZ3, KGZ25
Medium Pressure, Top-Ported	SRLT	25 gpm, 1400 psi, SAE 1-1/16"-12 straight porting, cartridge dirt alarm	SRLT6RZ10S12D5	6RZ3, 6RZ25
Medium Pressure, Top-Ported	RLT	70 gpm, 1000 psi, 9" element, SAE 1-5/8"-12 straight porting, cartridge dirt alarm	RLT9VZ10S20D5	9V25, 9VZ25

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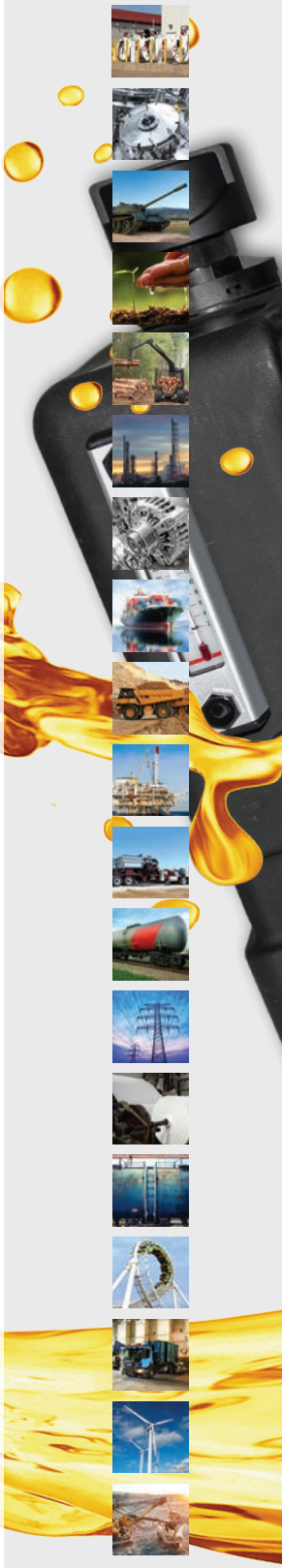

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