



Section 1:

COMPLETE TANK PACKAGES

Reservoir Accessories

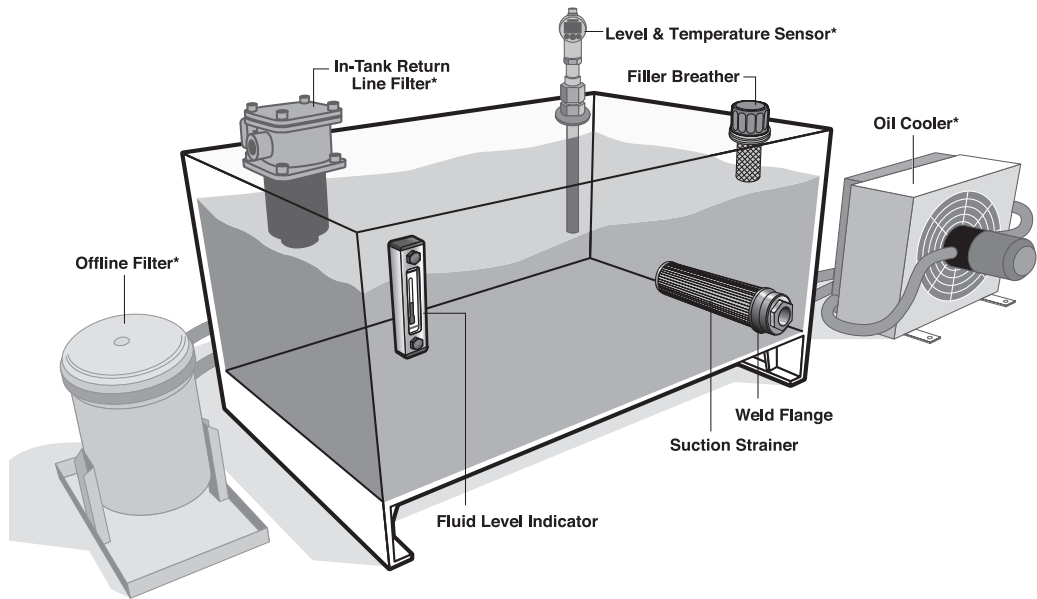
A hydraulic systems' reservoir can play a significant role in the ingress of contamination into the system. Concurrently, the reservoir presents great opportunities to correct the negative fluid conditions. The proper application of Schroeder reservoir accessories will greatly increase a system's cleanliness 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 ingress, 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 filter carts can be found in the filter system catalog.

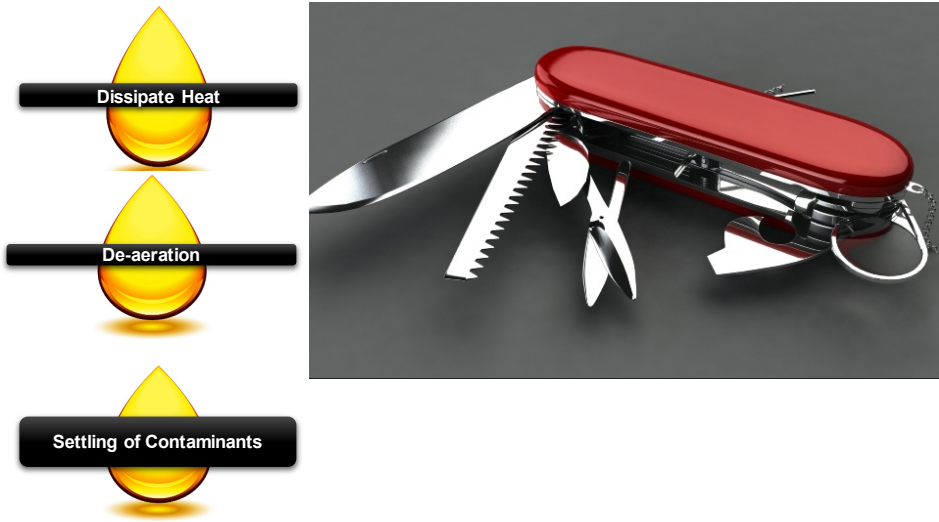
Protecting the pump is an integral step in ensuring system longevity. Installing a suction strainer will stop the larger pieces of unwanted debris from entering the suction line causing catastrophic problems downstream. Schroeder's magnetic suction separators offer unique protection for pumps suction 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.

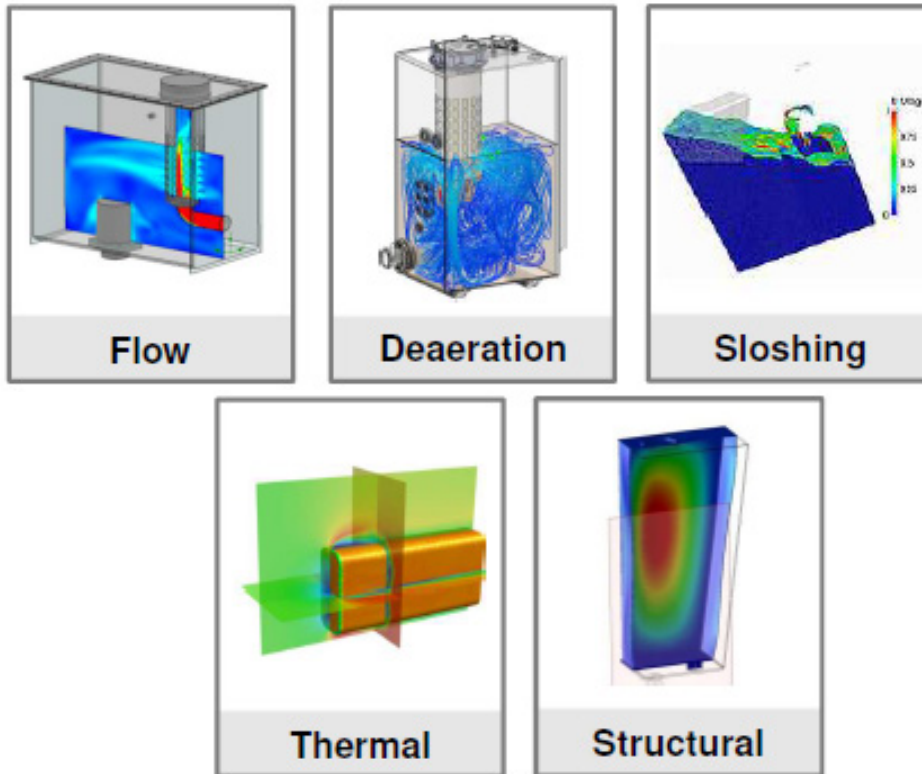


Tank Optimization - Purpose

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.



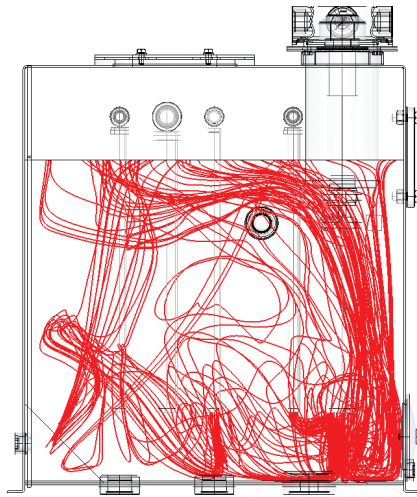
Computer-aided optimization of tank systems

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.

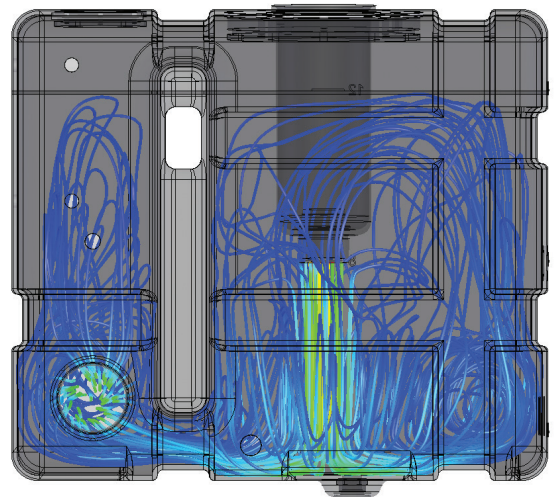
Stimulation and Analysis

Fluid Optimization: De-Aeration

Initial Approach: Study of flow trajectory and residence time using single-phase CFD.



Old Tank

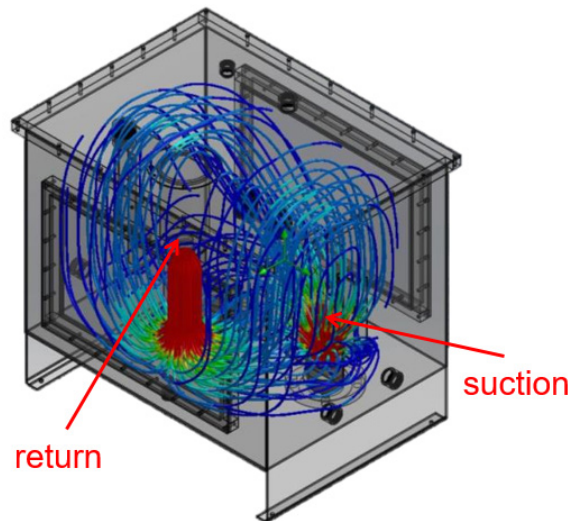
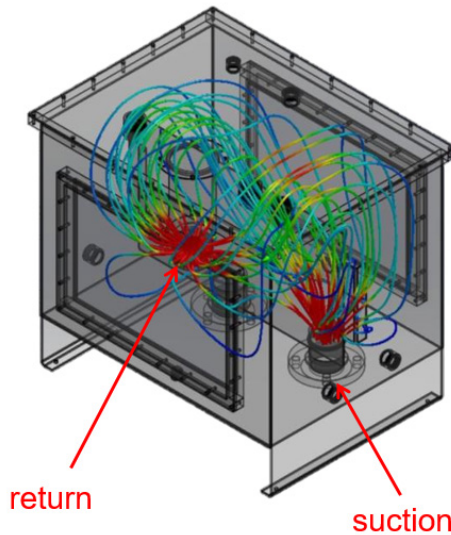


New Tank

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 only 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.

100 psi - 7 bar Return Line Filter

TNK1C - 1 Gallon; TNK4 - 4 Gallons TNK7 - 7 Gallons
TNK12 - 12 Gallons; TNK18 - 18 Gallons; TNK25 - 25 Gallons



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 six (6) performance optimized sizes (1, 4, 7, 12, 18, & 25 gal.)
- Return-line filter options available with GeoSeal® aftermarket retaining elements

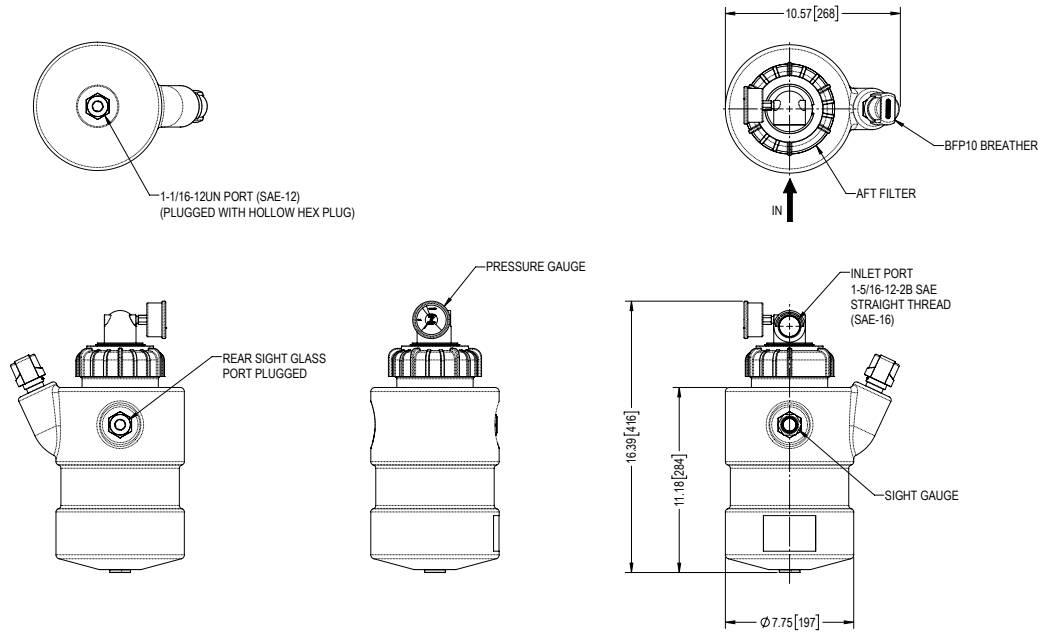
Specifications

Tank Materials:	High Density Crosslink Polyethylene (XLPE), Nylon (PA)	
Tank Volumes:	1 gal (4L), 4 gal (15L), 7 gal (26L), 12 gal (45L), 18 gal (68L), or 25 gal (95L)	
Operating Temperature:	High Density Polyethylene (HDPE): -40°F to 180°F (-40°C to 82°C) Nylon (PA): -40°F to 240°F (-40°C to 116°C)	
Return Line Filter:	TNK1C: AFT TNK4: AFT TNK7: AFT, MTB	TNK12: AFT & AFTF, GZT TNK18: AFT & AFTF, GZT TNK25: AFT & AFTF, GRT, GRTB
Max. Return Flow:	TNK1C: 15 GPM (57 L/min) TNK4: 25 gpm (95 L/min) 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:	TNK1C: 8.00 lbs (3.6 kg) TNK4 (AFT4): 11.5 lbs (5.2 kg) TNK4 (AFT8): 11.5 lbs (5.2 kg) 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:	TNK1C: 8.00" (203mm) TNK4 (AFT4): 5.3" (134mm) TNK4 (AFT8): 8.6" (219 mm) 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).

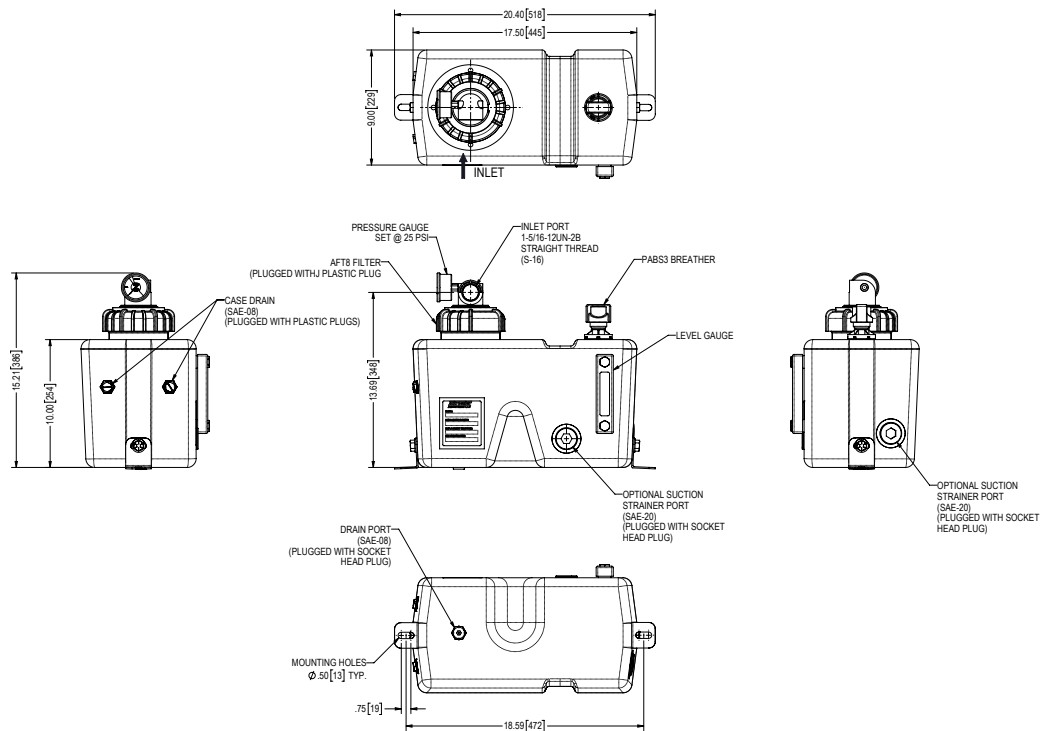
COMPLETE TANK SOLUTIONS

TNK1C



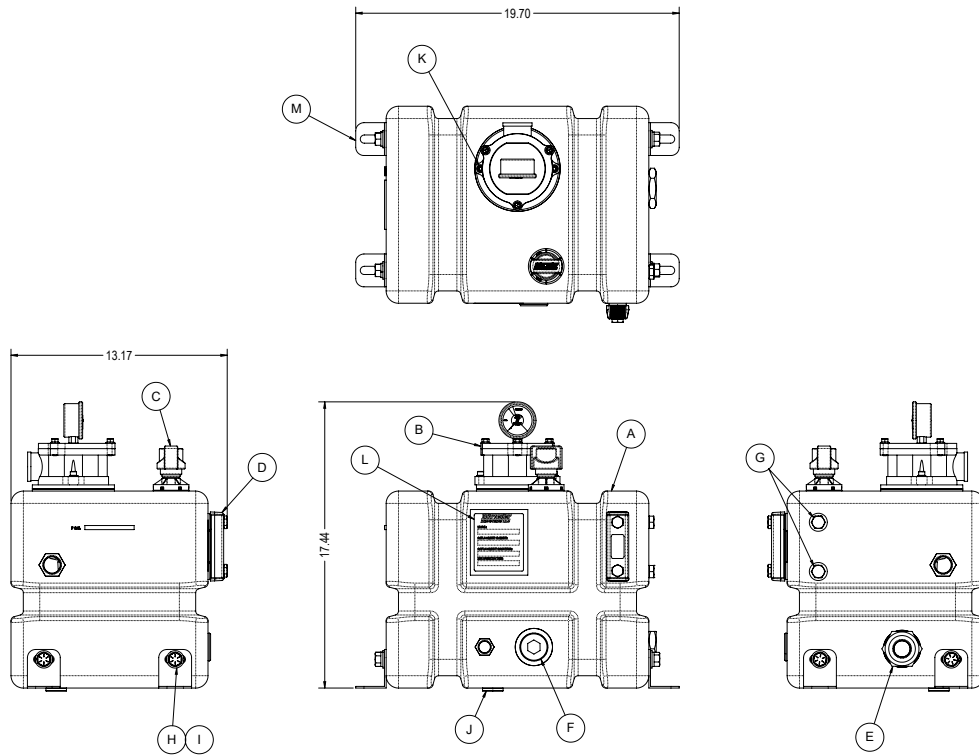
Metric dimensions in [].

TNK4



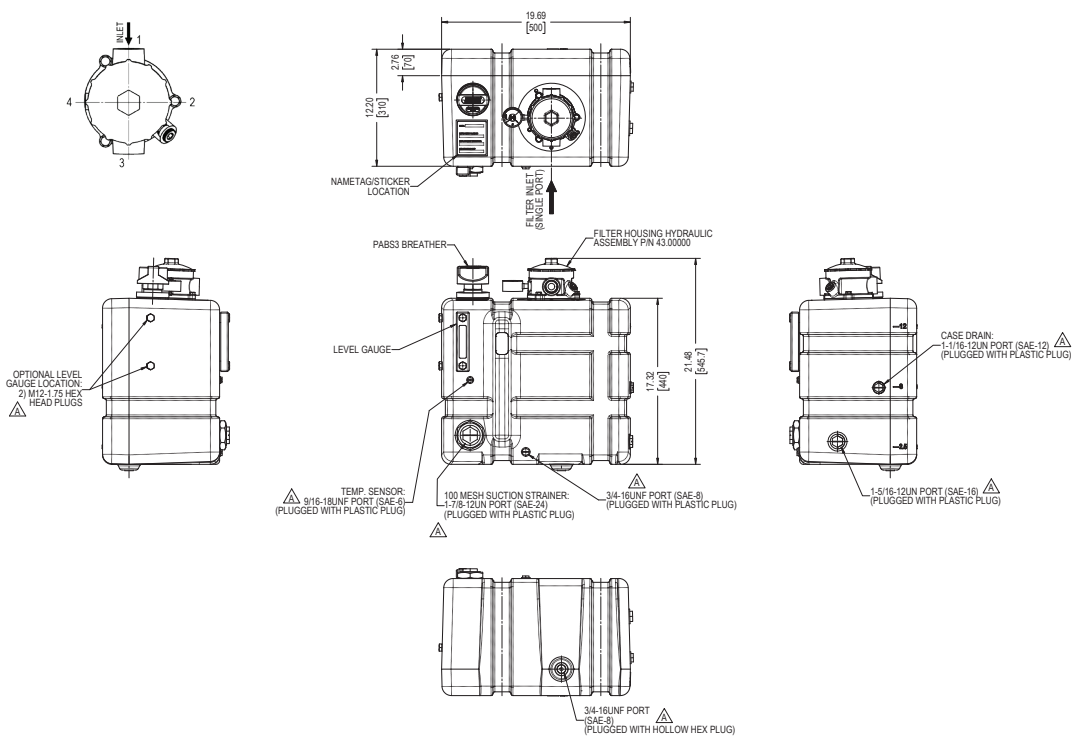
Metric dimensions in [].

TNK7



Metric dimensions in [].

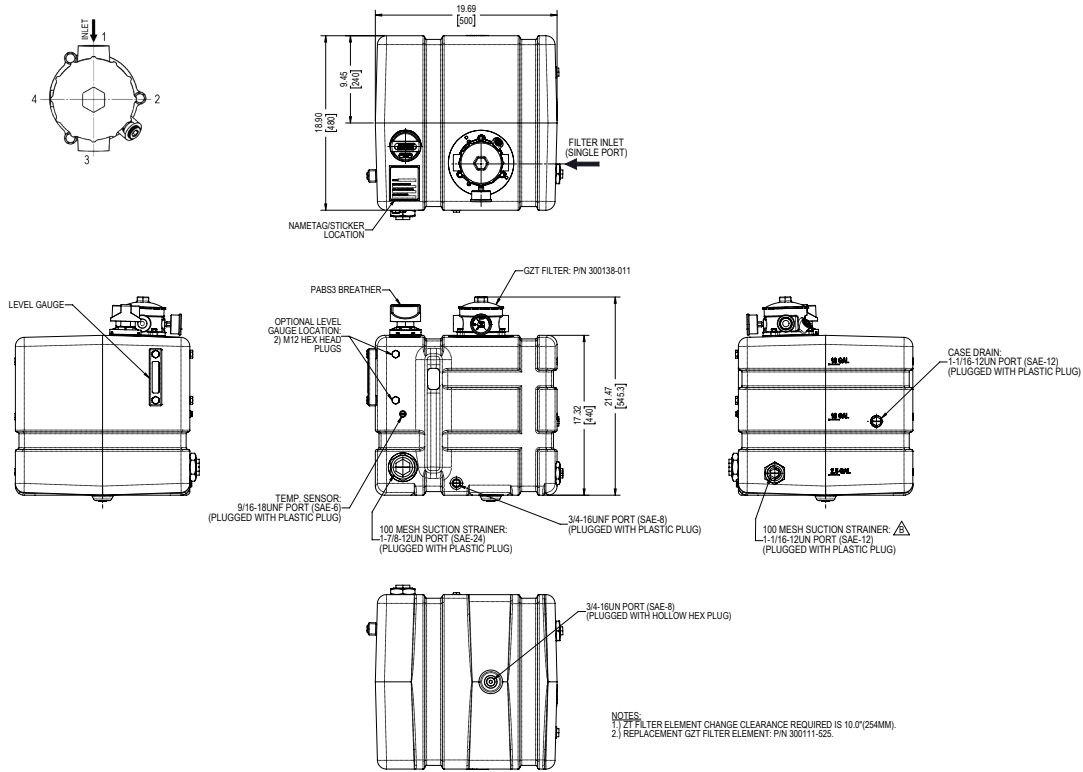
TNK12



Metric dimensions in [].

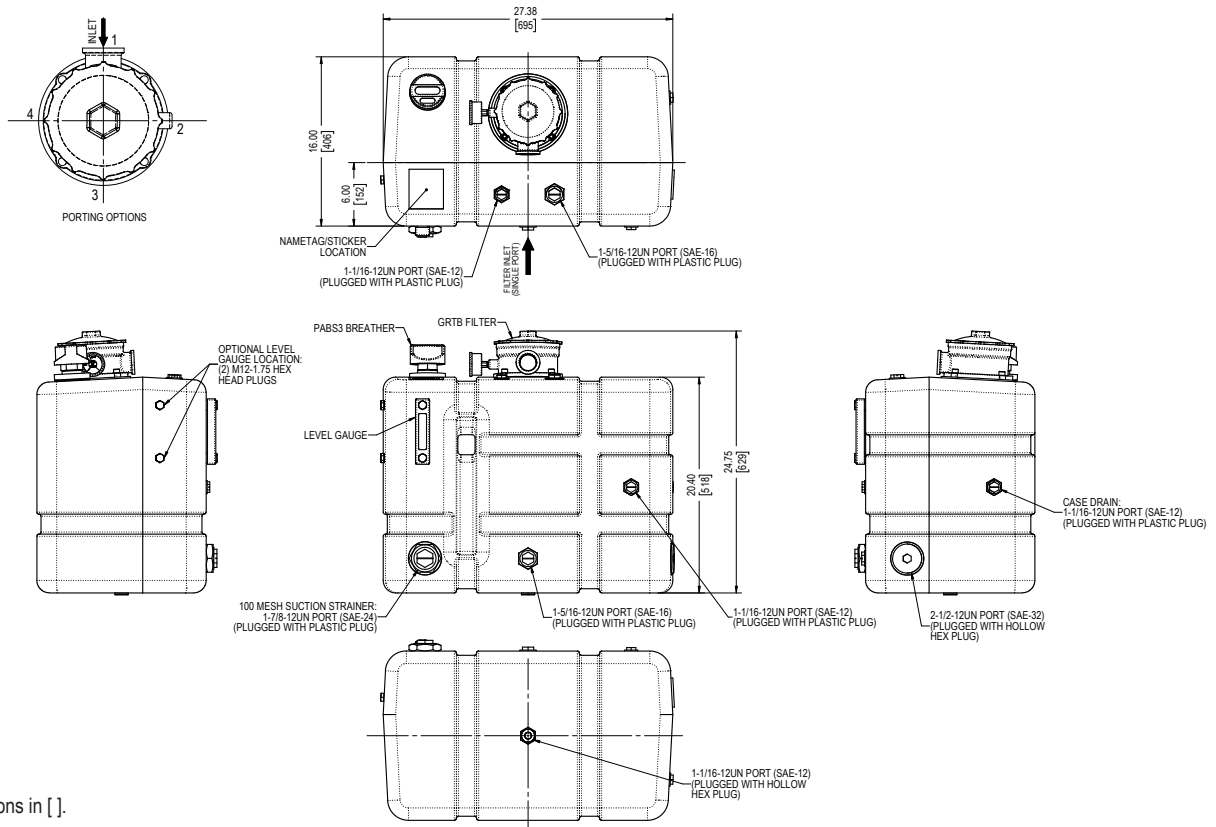
COMPLETE TANK SOLUTIONS

TNK18



Metric dimensions in [].

TNK25



Metric dimensions in [].

Usable Fluid Levels

	Middle Level of Gauge (gal)	Top Level of Gauge (gal)
TNK1C	-	-
TNK4	2.6	3.7
TNK7	5.4	6.0
TNK12	10.1	11.5
TNK18	14.8	16.6
TNK25	23.4	26.0

Torque Specifications

SAE-06 PORT: 8ft.-lbs.	M12 PORT: 8ft.-lbs.	1/4-20 PORT: 2ft.-lbs.
SAE-08 PORT: 10ft.-lbs.	M14 PORT: 10ft.-lbs.	3/8-16 PORT: 6ft.-lbs.
SAE-10 PORT: 20ft.-lbs.		1/2-13 PORT: 8ft.-lbs.
SAE-12 PORT: 25ft.-lbs.		
SAE-16 PORT: 25ft.-lbs.		
SAE-20 PORT: 28ft.-lbs.		
SAE-24 PORT: 30ft.-lbs.		
SAE-32 PORT: 30ft.-lbs.		

* NOT RECOMMENDED TO EXCEED 30ft.-lbs. TORQUE

TNK1C

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

TNK1C				
TNK Size	Material	Filter Selection	Filler/Breather	Sight Glass

**Starting from the left to the right you will choose your TNK Size and work your way through each category as illustrated above.

TNK Size	Material	Element Selection			Gauge Port Option	
Filter Option	Element Length	Element Media & Micron*	Porting			
<input type="checkbox"/> TNK1C = 1 Gallon	<input type="checkbox"/> HD = XLPE	<input type="checkbox"/> 4LK = 4"	<input type="checkbox"/> Z3 = 3 Micron	<input type="checkbox"/> S16 = SAE-16	<input type="checkbox"/> N = Plugged	
<input type="checkbox"/> AFT	<input type="checkbox"/> 8LK = 8"	<input type="checkbox"/> Z5 = 5 Micron	<input type="checkbox"/> L16 = 90 Deg SAE-16	<input type="checkbox"/> Y2 = Tricolor Visual Indicator (Back Mounted)		
		<input type="checkbox"/> Z10 = 10 Micron		<input type="checkbox"/> Y2C = Tricolor Visual Indicator (Bottom Mounted)		
		<input type="checkbox"/> Z25 = 25 Micron		<input type="checkbox"/> ES = Electric Switch		
				<input type="checkbox"/> ES1 = Heavy Duty Electric Switch		
Filler/Breather	Sight Glass	Note:				
<input type="checkbox"/> F = PABS1	<input type="checkbox"/> S2 = Sight Glass Front	• Sight Glass Front = Breather Arm on Right when facing TNK				
	<input type="checkbox"/> S3 = Sight Glass Back	• Sight Glass Back = Breather Arm on Left when facing TNK				
	<input type="checkbox"/> N = No Sight Glass					

*Micron Rating refers to the return filter element rating.

Note: For fluids that have the potential for electrostatic discharge, please consult factory for anti-stat media options.

COMPLETE TANK SOLUTIONS

TNK4

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

TNK4					
TNK Size	Material	Filter Selection	Filler/Breather	Sight Glass	Suction Strainer

**Starting from the left to the right you will choose your TNK Size and work your way through each category as illustrated above.

TNK Size	Material	
<input type="checkbox"/> TNK4 = 4 Gallon	<input type="checkbox"/> HD = XLPE	<input type="checkbox"/> PA = Nylon

Filter Option	Element Selection		Porting	Gauge Port Option
	Element Length	Element Media & Micron*		
<input type="checkbox"/> AFT	<input type="checkbox"/> 4LK = 4" <input type="checkbox"/> 8LK = 8"	<input type="checkbox"/> Z3 = 3 Micron <input type="checkbox"/> Z5 = 5 Micron <input type="checkbox"/> Z10 = 10 Micron <input type="checkbox"/> Z25 = 25 Micron	<input type="checkbox"/> S16 = SAE-16 <input type="checkbox"/> L16 = 90 Deg SAE-16	<input type="checkbox"/> N = Plugged <input type="checkbox"/> Y2 = Tricolor Visual Indicator (Back Mounted) <input type="checkbox"/> Y2C = Tricolor Visual Indicator (Bottom Mounted) <input type="checkbox"/> ES = Electric Switch <input type="checkbox"/> ES1 = Heavy Duty Electric Switch

Filler/Breather	Sight Glass	Suction Strainer
<input type="checkbox"/> F = PABS1	<input type="checkbox"/> S2 = Sight Glass Front <input type="checkbox"/> N = No Sight Glass	<input type="checkbox"/> S = SAE-20, Side - Flow Rate: 25 GPM <input type="checkbox"/> F = SAE-20, Front - Flow Rate: 25 GPM

*Micron Rating refers to the return filter element rating.

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

Note: For fluids that have the potential for electrostatic discharge, please consult factory for anti-stat media options.

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

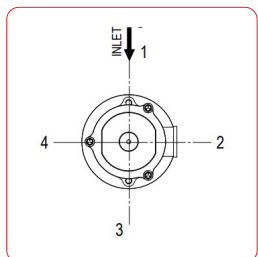


**Starting from the left to the right you will choose your TNK Size and work your way through each category as illustrated above.

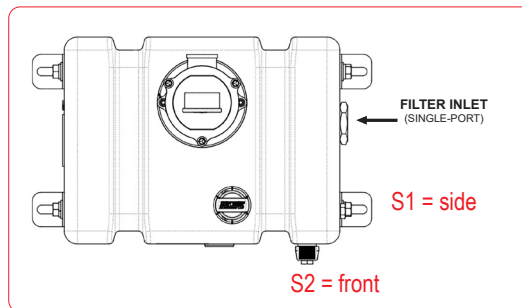
TNK Size		Material			
<input type="checkbox"/> TNK7 = 7 Gallon		<input type="checkbox"/> HD = XLPE	<input type="checkbox"/> PA = Nylon		
Filter Option 1	Element Selection				
	Element Length	Element Media & Micron*	Porting	Gauge Port Option	
<input type="checkbox"/> AFT	<input type="checkbox"/> 4LK = 4" <input type="checkbox"/> 8LK = 8"	<input type="checkbox"/> Z3 = 3 Micron <input type="checkbox"/> Z5 = 5 Micron <input type="checkbox"/> Z10 = 10 Micron <input type="checkbox"/> Z25 = 25 Micron	<input type="checkbox"/> S16 = SAE-16 <input type="checkbox"/> L16 = 90 Deg SAE-16	<input type="checkbox"/> N = Plugged <input type="checkbox"/> Y2 = Tricolor Visual Indicator (Back Mounted) <input type="checkbox"/> Y2C = Tricolor Visual Indicator (Bottom Mounted) <input type="checkbox"/> ES = Electric Switch <input type="checkbox"/> ES1 = Heavy Duty Electric Switch	
Filter Option 2	Media & Micron Rating	Porting	Orientation	Filter Options	
<input type="checkbox"/> MTB	<input type="checkbox"/> 3 = 3 Micron <input type="checkbox"/> 5 = 5 Micron <input type="checkbox"/> 10 = 10 Micron <input type="checkbox"/> 25 = 10 Micron <small>*All Media Options above are Z Synthetic Media</small>	<input type="checkbox"/> P12 = 3/4" NPTF <input type="checkbox"/> P16 = 1" NPTF <input type="checkbox"/> S12 = SAE-12 <input type="checkbox"/> S16 = SAE-16 <input type="checkbox"/> B12 = ISO 228 G-3/4" <input type="checkbox"/> B16 = ISO 228 G-1"	<input type="checkbox"/> 1 = Rear <input type="checkbox"/> 2 = Right <input type="checkbox"/> 3 = Front <input type="checkbox"/> 4 = Left	<input type="checkbox"/> OMIT = None <input type="checkbox"/> Y2C = Bottom-Mounted Gauge in Cap <input type="checkbox"/> Y5 = Back-Mounted Gauge in Cap <input type="checkbox"/> ESC = Electric Pressure Switch (2 Terminals)	
Filler/Breather	Sight Glass	Suction Strainer		Options	
<input type="checkbox"/> F = PABS1	<input type="checkbox"/> S1 = Sight Glass Side <input type="checkbox"/> S2 = Sight Glass Front <input type="checkbox"/> N = No Sight Glass	<input type="checkbox"/> S = SAE-20, Side - Flow Rate: 25 GPM <input type="checkbox"/> F = SAE-20, Front - Flow Rate: 25 GPM <input type="checkbox"/> N = No Strainer		<input type="checkbox"/> Omit = No Feet <input type="checkbox"/> M = Mounting Feet	

*Micron Rating refers to the return filter element rating.

Note: Tank Mounting Straps sold as a separate part number, please see next page for configurations and options.
Note: For fluids that have the potential for electrostatic discharge, please consult factory for anti-stat media options.



Porting Options
(MTB Depicted)



Sight Glass Options

COMPLETE TANK SOLUTIONS

TNK12/18

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



**Starting from the left to the right you will choose your TNK Size and work your way through each category as illustrated above.

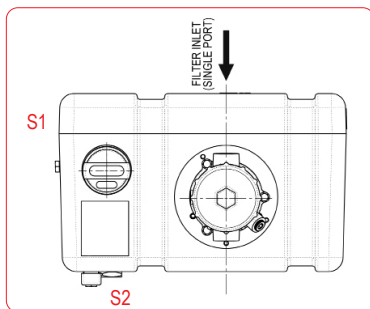
TNK Size	Material	
<input type="checkbox"/> TNK12 = 12 Gallon	<input type="checkbox"/> HD = XLPE	
<input type="checkbox"/> TNK18 = 18 Gallon	<input type="checkbox"/> PA = Nylon	

Filter Option 1	Element Selection			Porting	Gauge Port Option	
	Element Length	Element Media & Micron*				
<input type="checkbox"/> AFT	<input type="checkbox"/> 4LK = 4" <input type="checkbox"/> 8LK = 8" <input type="checkbox"/> 12LK = 12" <input type="checkbox"/> 16LK = 16"	<input type="checkbox"/> Z3 = 3 Micron <input type="checkbox"/> Z5 = 5 Micron <input type="checkbox"/> Z10 = 10 Micron <input type="checkbox"/> Z25 = 25 Micron	<input type="checkbox"/> S16 = SAE-16 <input type="checkbox"/> L16 = 90 Deg SAE-16	<input type="checkbox"/> N = Plugged <input type="checkbox"/> Y2 = Tricolor Visual Indicator (Back Mounted) <input type="checkbox"/> Y2C = Tricolor Visual Indicator (Bottom Mounted)	<input type="checkbox"/> ES = Electric Switch <input type="checkbox"/> ES1 = Heavy Duty Electric Switch	

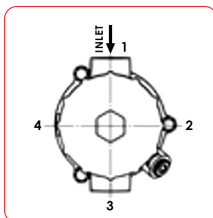
Filter Option 2	Element Selection		Porting
	Element Length	Element Media & Micron*	
<input type="checkbox"/> AFTF	<input type="checkbox"/> 4LK = 4" <input type="checkbox"/> 8LK = 8"	<input type="checkbox"/> 12LK = 12" <input type="checkbox"/> 16LK = 16"	<input type="checkbox"/> Z3 = 3 Micron <input type="checkbox"/> Z5 = 5 Micron <input type="checkbox"/> Z10 = 10 Micron <input type="checkbox"/> Z25 = 25 Micron
	Orientation	Gauge Port Option	Breather
	<input type="checkbox"/> 1 = Rear <input type="checkbox"/> 2 = Right <input type="checkbox"/> 3 = Front <input type="checkbox"/> 4 = Left	<input type="checkbox"/> N = Plugged <input type="checkbox"/> Y2 = Tricolor Visual Indicator (Back Mounted) <input type="checkbox"/> Y2C = Tricolor Visual Indicator (Bottom Mounted)	<input type="checkbox"/> ES = Electric Switch <input type="checkbox"/> ES1 = Heavy Duty Electric Switch <input type="checkbox"/> B = Breather (in filter Head) <input type="checkbox"/> Omit = None

Filter Option 3	Media & Micron Rating	Porting	Orientation	Filter Options
<input type="checkbox"/> GZT	<input type="checkbox"/> 1 = 1 Micron <input type="checkbox"/> 3 = 3 Micron <input type="checkbox"/> 5 = 5 Micron <input type="checkbox"/> 10 = 10 Micron <input type="checkbox"/> 25 = 25 Micron <small>*All Media Options above are Z Synthetic Media</small>	<input type="checkbox"/> P = 1" NPTF <input type="checkbox"/> PP = Dual 1" NPTF <input type="checkbox"/> S = SAE-16 <input type="checkbox"/> SS = Dual SAE-16 <input type="checkbox"/> B = ISO 228 G-1" <input type="checkbox"/> BB = Dual ISO 228 G-1"	<input type="checkbox"/> 1 = Rear <input type="checkbox"/> 2 = Right <input type="checkbox"/> 3 = Front <input type="checkbox"/> 4 = Left	<input type="checkbox"/> OMIT = None <input type="checkbox"/> D = Diffuser <input type="checkbox"/> Y2 = Back-Mounted Tricolor Gauge <input type="checkbox"/> Y2C = Bottom-Mounted Gauge in Cap
				<input type="checkbox"/> Y5 = Back-Mounted Gauge in Cap <input type="checkbox"/> ES = Electric Switch <input type="checkbox"/> ES1 = Heavy-Duty Electric Switch with Conduit Connection

Filler/Breather	Sight Glass	Suction Strainer
<input type="checkbox"/> F = PABS1 (in tank) <input type="checkbox"/> B = Blocked Breather Port (AFTF Only)	<input type="checkbox"/> S1 = Sight Glass Side <input type="checkbox"/> S2 = Sight Glass Front <input type="checkbox"/> N = No Sight Glass	<input type="checkbox"/> S = SAE-20, Side - Flow Rate: 25 GPM <input type="checkbox"/> F = SAE-20, Front - Flow Rate: 25 GPM <input type="checkbox"/> N = No Strainer



Sight Glass Options



Porting Options

Applicable to GZT and AFTF

*Micron Rating refers to the return filter element rating.

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

Note: For fluids that have the potential for electrostatic discharge, please consult factory for anti-stat media options.

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



**Starting from the left to the right you will choose your TNK Size and work your way through each category as illustrated above.

TNK Size	Material			
<input type="checkbox"/> TNK25 = 25 Gallon	<input type="checkbox"/> HD = XLPE <input type="checkbox"/> PA = Nylon			
Filter Option 1	Element Selection			
	Element Length	Element Media & Micron*		Porting
<input type="checkbox"/> AFT	<input type="checkbox"/> 4LK = 4" <input type="checkbox"/> 8LK = 8" <input type="checkbox"/> 12LK = 12" <input type="checkbox"/> 16LK = 16"	<input type="checkbox"/> Z3 = 3 Micron <input type="checkbox"/> Z5 = 5 Micron	<input type="checkbox"/> Z10 = 10 Micron <input type="checkbox"/> Z25 = 25 Micron	<input type="checkbox"/> S16 = SAE-16 <input type="checkbox"/> L16 = 90 Deg SAE-16
	Orientation	Gauge Port Option		
	<input type="checkbox"/> 1 = Rear <input type="checkbox"/> 2 = Right <input type="checkbox"/> 3 = Front <input type="checkbox"/> 4 = Left	<input type="checkbox"/> N = Plugged <input type="checkbox"/> Y2 = Tricolor Visual Indicator (Back Mounted) <input type="checkbox"/> Y2C = Tricolor Visual Indicator (Bottom Mounted) <input type="checkbox"/> ES = Electric Switch		
Filter Option 2	Element Selection			
	Element Length	Element Media & Micron*		Porting
<input type="checkbox"/> AFTF	<input type="checkbox"/> 4LK = 4" <input type="checkbox"/> 8LK = 8" <input type="checkbox"/> 12LK = 12" <input type="checkbox"/> 16LK = 16"	<input type="checkbox"/> Z3 = 3 Micron <input type="checkbox"/> Z5 = 5 Micron	<input type="checkbox"/> Z10 = 10 Micron <input type="checkbox"/> Z25 = 25 Micron	<input type="checkbox"/> S16 = SAE-16
	Orientation	Gauge Port Option	Breather	
	<input type="checkbox"/> 1 = Rear <input type="checkbox"/> 2 = Right <input type="checkbox"/> 3 = Front <input type="checkbox"/> 4 = Left	<input type="checkbox"/> N = Plugged <input type="checkbox"/> Y2 = Tricolor Visual Indicator (Back Mounted) <input type="checkbox"/> ES = Electric Switch <input type="checkbox"/> ES1 = Heavy Duty Electric Switch <input type="checkbox"/> ES2 = Electrical Switch with Deutsch Connector	<input type="checkbox"/> B = Breather (in filter Head) <input type="checkbox"/> Omit = None	

TNK25 Continued on next page:

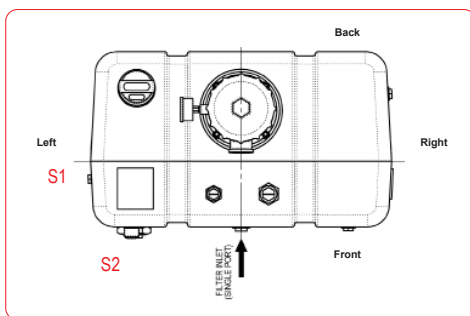
COMPLETE TANK SOLUTIONS

TNK25

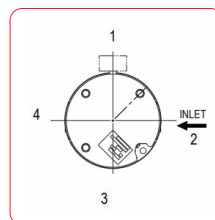
TNK25 Continued:

Filter Option 3	Media & Micron Rating	Porting A	Porting B	Porting C
<input type="checkbox"/> GRT	<input type="checkbox"/> 1 = 1 Micron <input type="checkbox"/> 3 = 3 Micron <input type="checkbox"/> 5 = 5 Micron <input type="checkbox"/> 10 = 10 Micron <input type="checkbox"/> 25 = 25 Micron <i>*All Media Options above are Z Synthetic Media</i>	<input type="checkbox"/> P16 = 1" NPTF <input type="checkbox"/> P20 = 1 1/4" NPTF <input type="checkbox"/> P24 = 1 1/2" NPTF <input type="checkbox"/> P32 = 2" NPTF <input type="checkbox"/> S16 = SAE-16 <input type="checkbox"/> S20 = SAE-20 <input type="checkbox"/> S24 = SAE-24 <input type="checkbox"/> S32 = SAE-32 <input type="checkbox"/> F20 = 1 1/4" SAE 4-Bolt Flange Code 61 <input type="checkbox"/> F24 = 1 1/2" SAE 4-Bolt Flange Code 61 <input type="checkbox"/> F32 = 2" SAE 4-Bolt Flange Code 61 <input type="checkbox"/> B24 = ISO 228 G-1/2" <input type="checkbox"/> Flange Port Option Only: M = Metric SAE 4 Bolt	<input type="checkbox"/> N = None <input type="checkbox"/> P16 = 1" NPTF <input type="checkbox"/> P20 = 1 1/4" NPTF <input type="checkbox"/> P24 = 1 1/2" NPTF <input type="checkbox"/> P32 = 2" NPTF <input type="checkbox"/> S16 = SAE-16 <input type="checkbox"/> S20 = SAE-20 <input type="checkbox"/> S24 = SAE-24 <input type="checkbox"/> S32 = SAE-32 <input type="checkbox"/> F20 = 1 1/4" SAE 4-Bolt Flange Code 61 <input type="checkbox"/> F24 = 1 1/2" SAE 4-Bolt Flange Code 61 <input type="checkbox"/> F32 = 2" SAE 4-Bolt Flange Code <input type="checkbox"/> B24 = ISO 228 G-1/2"	<input type="checkbox"/> N = None <input type="checkbox"/> P2 = 1/8" NPTF <input type="checkbox"/> P16 = 1" NPTF <input type="checkbox"/> S16 = SAE-16
Orientation <input type="checkbox"/> 1 = Rear <input type="checkbox"/> 2 = Right <input type="checkbox"/> 3 = Front <input type="checkbox"/> 4 = Left		Filter Options <input type="checkbox"/> OMIT = None <input type="checkbox"/> D = Diffuser <input type="checkbox"/> Y2 = Back-Mounted Tricolor Gauge <input type="checkbox"/> Y2C = Bottom-Mounted Gauge in Cap <input type="checkbox"/> Y5 = Back-Mounted Gauge in Cap <input type="checkbox"/> ES = Electric Switch <input type="checkbox"/> ES1 = Heavy-Duty Electric Switch with Conduit Connection		
Filter Option 4	Media & Micron Rating	Porting	Orientation	Filter Options
<input type="checkbox"/> GRTB	<input type="checkbox"/> 1 = 1 Micron <input type="checkbox"/> 3 = 3 Micron <input type="checkbox"/> 5 = 5 Micron <input type="checkbox"/> 10 = 10 Micron <input type="checkbox"/> 25 = 25 Micron <i>*All Media Options above are Z Synthetic Media</i>	<input type="checkbox"/> P = 1" NPTF <input type="checkbox"/> S = SAE-16 <input type="checkbox"/> B = ISO 228 G-1" <input type="checkbox"/> G = 1.25"	<input type="checkbox"/> 1 = Rear <input type="checkbox"/> 2 = Right <input type="checkbox"/> 3 = Front <input type="checkbox"/> 4 = Left	<input type="checkbox"/> OMIT = None <input type="checkbox"/> D = Diffuser <input type="checkbox"/> Y2 = Back-Mounted Tricolor Gauge <input type="checkbox"/> Y2C = Bottom-Mounted Gauge in Cap <input type="checkbox"/> Y5 = Back-Mounted Gauge in Cap <input type="checkbox"/> ES = Electric Switch <input type="checkbox"/> ES1 = Heavy-Duty Electric Switch with Conduit Connection
Filler/Breather	Sight Glass	Suction Strainer		
<input type="checkbox"/> F = PABS3 (in Tank) <input type="checkbox"/> B = Blocked Breather Port (AFTF Only)	<input type="checkbox"/> S1 = Sight Glass Side <input type="checkbox"/> S2 = Sight Glass Front <input type="checkbox"/> N = No Sight Glass	<input type="checkbox"/> N = No Suction Strainer <input type="checkbox"/> R = SAE-24, 100 Mesh Strainer on FRONT Side, Flow Rate:25 GPM <input type="checkbox"/> B = SAE-24, 100 Mesh Strainer on BOTH Sides, Flow Rate:25 GPM		

*Micron Rating refers to the return filter element rating.
Note: Tank Mounting Straps sold as a separate part number, please see next page for configurations and options.
Note: For fluids that have the potential for electrostatic discharge, please consult factory for anti-stat media options.



Sight Glass Options



Porting Options

Applicable to AFTF, GRT, and GRTB

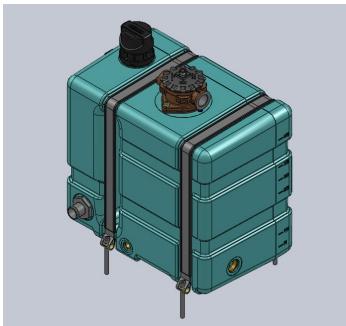
Plastic Tank Strap Arrangement

Introduction

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.

Mounting Possibility

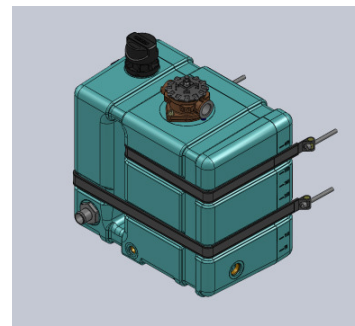
Represents 12, 18 & 25 Gallon Strap Locations



Vertical Overhead



Vertical Two-Sided



Horizontal

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.

Description

Schroeder Industries FTC (Filter/ Tank/ Cooler) integration is a fluid conditioning unit that cuts down on the use of hydraulic oil. With our advanced de-aeration filter, this package functions in the footprint of a 25 gallon reservoir.



Features and Benefits

- Optimized 7 gallon reservoir
- Cooler with up to 15hp of heat rejection
- Easily mounts to Truck Frame
- Patent pending De-aeration AFT Filter
- Complete Package to fit in a 25-gallon reservoir footprint
- Hydraulic or DC Fan Motor Available

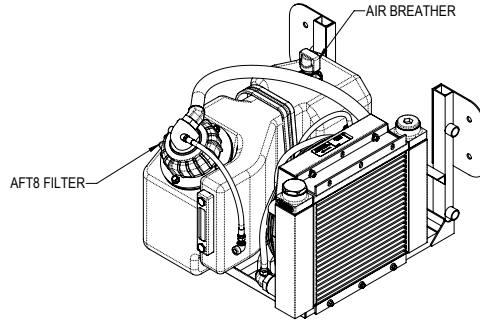
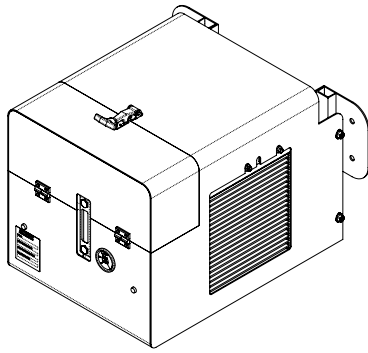
Markets Served

- Automotive
- Environmental
- Forestry
- Industrial
- Machine Tools
- Mobile Vehicles
- Refuse

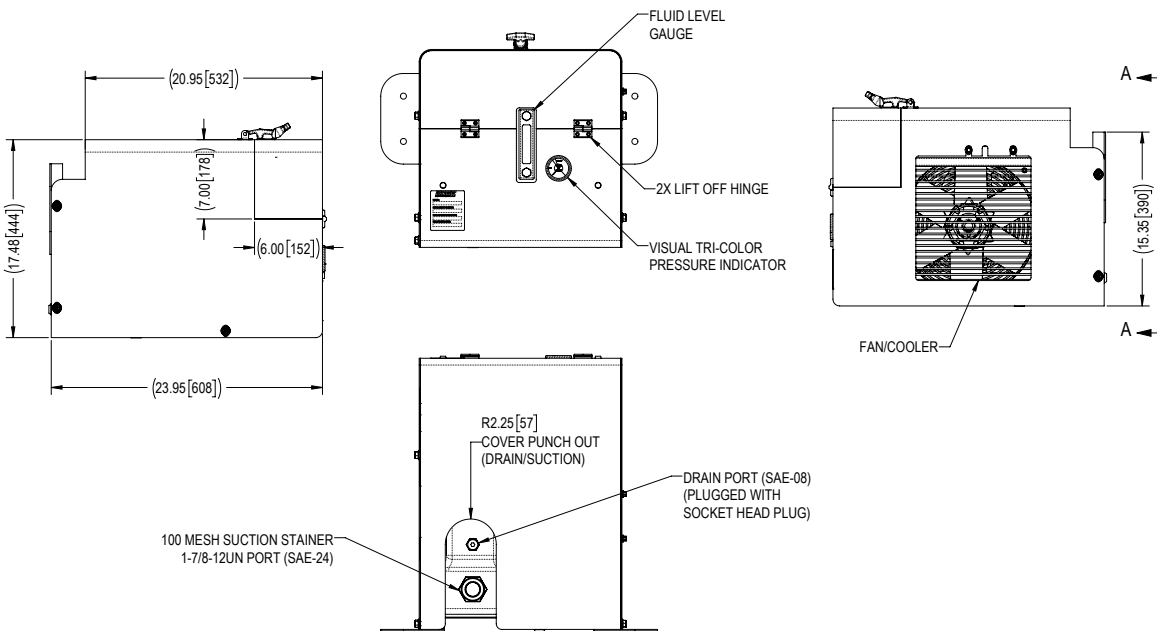
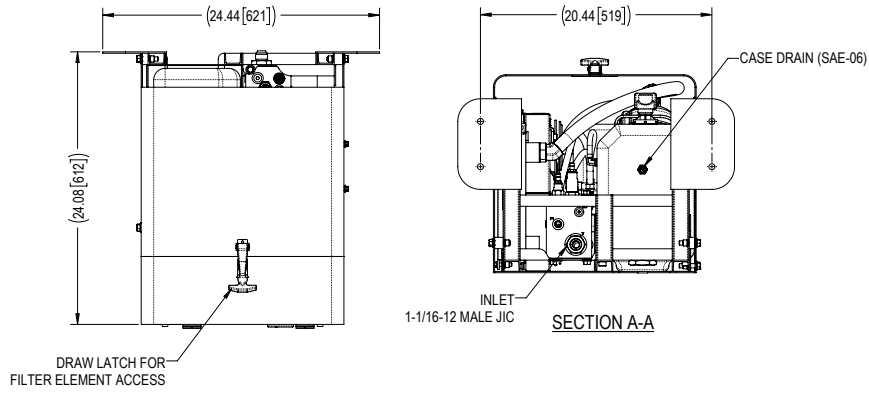
Specifications

Tank Material:	High Density Polyethylene (HDPE), Nylon (PA)
Tank Volume:	7 Gallon (26L)
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:	AFT Filter with either 4" or 8" element lengths
Max Return Flow:	40 GPM
Breather:	3 μ phenolic resin impregnated paper element
Suction Strainer:	100 Mesh Strainer
Weight:	Contact Factory
Element Change Clearance:	8" Element with Cover = 3.25" 8" Element with No Cover = 5.00" 4" Element with Cover = 0.50" 4" Element with No Cover = 2.00"
Ultra Violet Light Rating:	HDPE = UV-12 Nylon = UV-10
Cooler Material:	Housing: welded steel Heat exchanger: aluminum, brazed bar-and-plate Fan: plastic Motor: aluminum housing, steel gears and shaft
Max Cooler Pressure:	230 psi (16 bar)
Fan Noise Level:	69 dBa @ 1 meter

N (SAE-06)



INTERNAL VIEW



Filter Model Number Selection For FTC

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

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9	BOX 10
FTC									

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
FTC	7	HD	4LKZ5	Y2	FSA	S	ELD3	12	

= FTC7HD4LKZ5Y2FSAELD312

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5
FTC	Tank Size	Material	Return Filter and Element Micron Selection	Filter Indicator
FTC	7 = 7 Gallon	HD = HDPE PA = Nylon	4LKZ5 = 5 micron, 4" element (20 GPM) 4LKZ10 = 10 micron, 4" element (20 GPM) 8LKZ5 = 5 micron, 8" element (40 GPM) 8LKZ10 = 10 micron, 8" element (40 GPM)	Y2 = Tricolor visual indicator ES = Electrical Indicator ES1 = Heavy Duty Electrical Switch ES2 = Heavy-duty electric switch with conduit connection ES3 = Electric switch with DIN connector

BOX 6	BOX 7	BOX 8	BOX 9
Sight Glass	Suction Strainer	Cooler	Cooler Voltage
FSA = FSA Sight Glass FSK = FSK Sight Glass	S = 100 Mesh Strainer N = No Strainer	ELD3 = DC motor with 15 HP Heat Rejection ELH3 = Hydraulic Motor with 22 HP of Heat Rejection	*12 = 12 volt DC *24 = 24 volt DC **Omit = Hydraulic Motor

BOX 10
Cover
Omit = Include N = None

* ELD3 only available with 12 or 24 Volt DC
** ELH3 only available with the Hydraulic Motor