

Section 1: COMPLETE TANK PACKAGES

### **Reservoir Accessories**

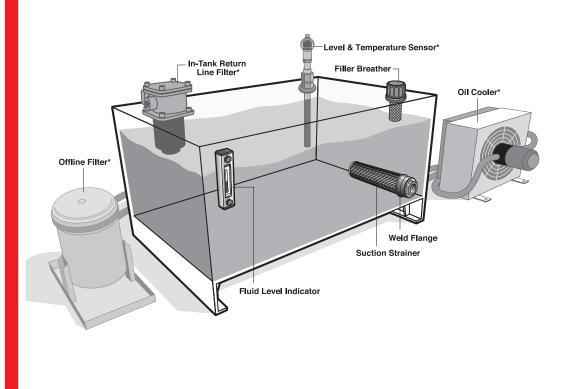
A hydraulic systems' reservoir can play a significant role in the ingression of contamination into the system. Concurrently, the reservoir presents great opportunities to correct the negative fluid conditions. The proper application of Schroeder reservoir accessories will greatly increase a system's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

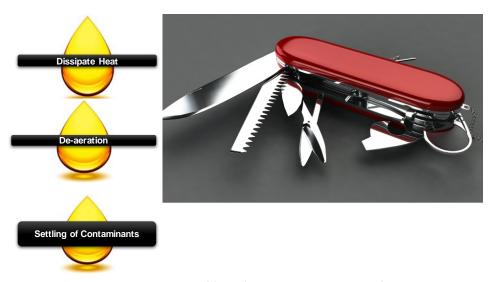
Protecting the pump is an integral step in ensuring system longevity. Installing a suction strainer will stop the larger pieces of unwanted debris from entering the suction line causing catastrophic problems downstream. Schroeder's magnetic suction separators offer unique protection for pumps suction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

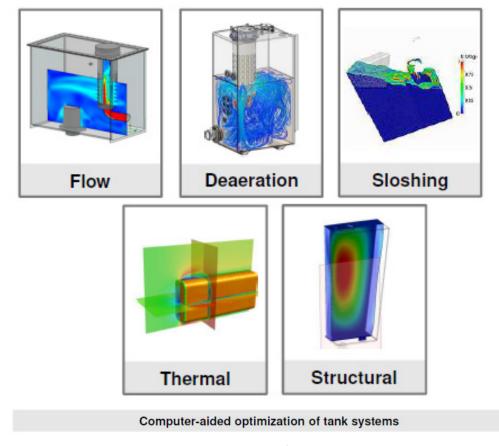


# **Tank Optimization - Purpose**

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.

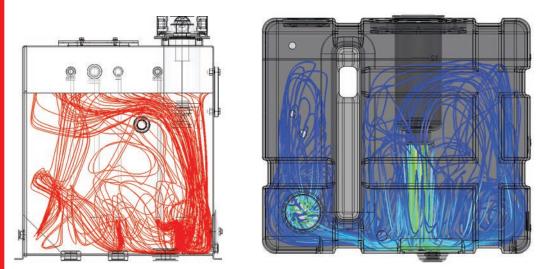


Stimulation and Analysis

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

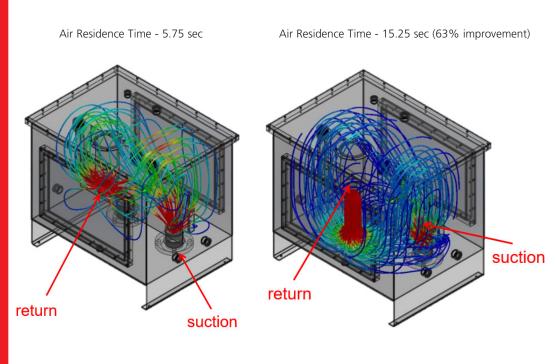
Initial Approach: Study of flow trajection an residence time using single-phase CFD.





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.



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.

### **Features and Benefits**

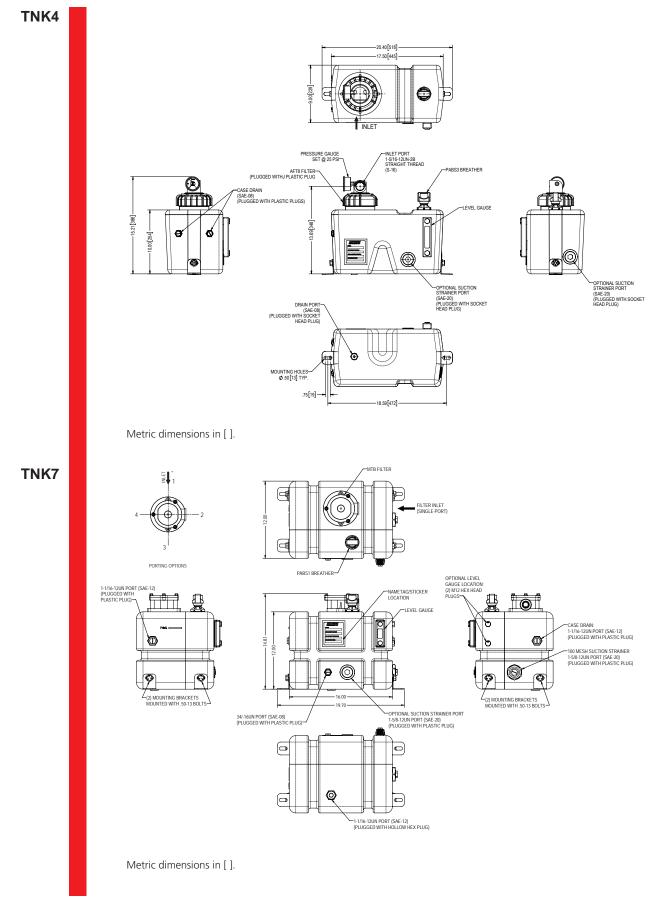
- Complete hydrau accessories like g breathers already
  Patented insertio mounting prever
  Patented integrar zone for returnin simultaneous complete hydrau accessories like g breathers already
  - Complete hydraulic reservoir solution with accessories like gauges, in-tank filters, and air breathers 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 five (5) performance optimized sizes (4, 7, 12, 18, & 25 gal.)
  - Return-line filter options available with GeoSeal<sup>®</sup> aftermarket retaining elements

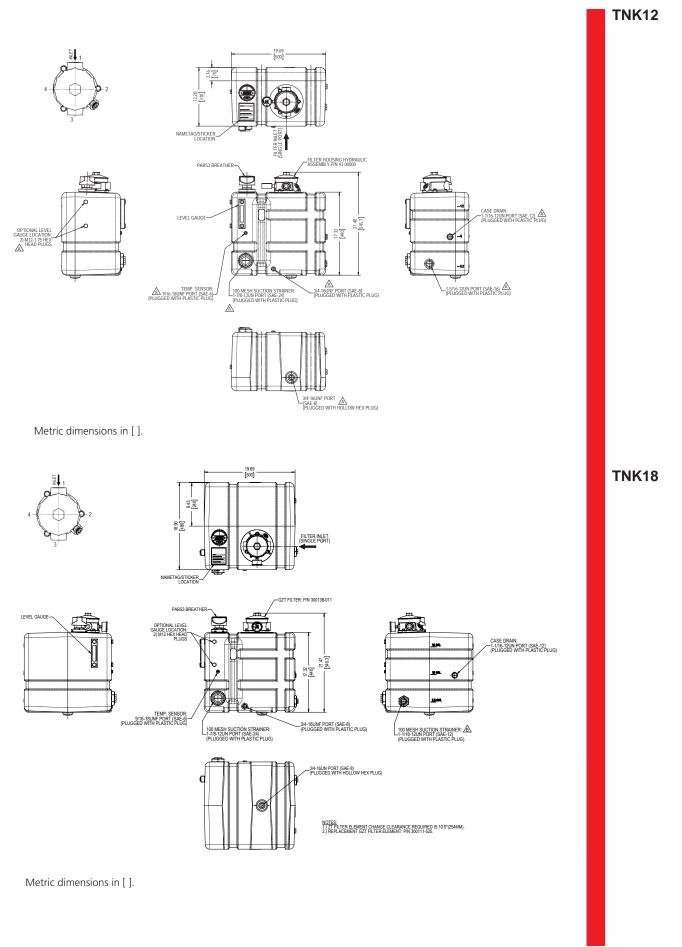
Tank Materials:	High Density Polyethylene (HDPE)			
Tank Volumes:	4 gal (15L), 7 gal (26L), 12 gal (45L), 18 gal (70L) or 25 gal (100L)			
Operating Temperature:	High Density Polyethylene (HDPE) - Nylon (PA) - 32°F to 240°F (0°C to			
Return Line Filter:	TNK4: AFT TNK7: MTB TNK12: ZT & GZT	TNK18: ZT & GZT TNK25: RT & GRT		
Max. Return Flow:	TNK4: 25 gpm 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:	$3 \ \mu$ phenolic resin impregnated paper	per element		
Suction Strainer:	100 μ wire mesh SAE20: 20 gpm SAE24: 30 gpm			
Weight of TNK:	TNK4 (AFT4): 11.5 lbs TNK4 (AFT8): 11.5 lbs 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:	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).

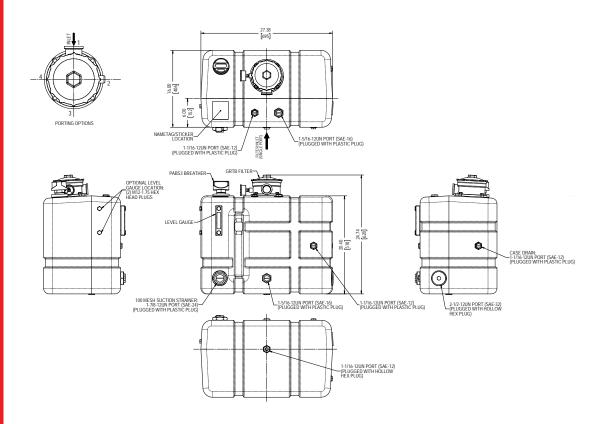
100 psi (7 *bar)* Return Line Filter

### Specifications





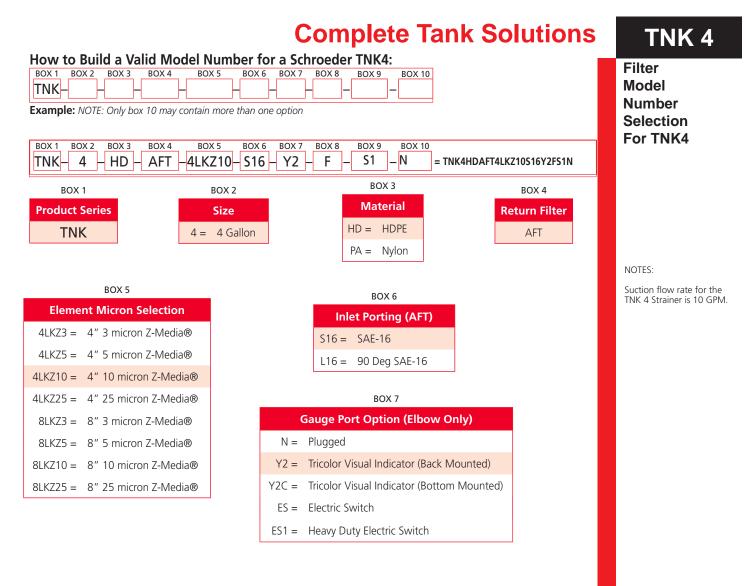
TNK25



Metric dimensions in [ ].

Usable Fluid		Middle Level of Gauge (gal)	Top Level of Gauge (gal)
Levels	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	SAE-06 PORT: 8ftlbs.	M12 PORT: 8ftlbs.	1/4-20 PORT: 2ftlbs.
Specifications	SAE-08 PORT: 10ftlbs.	M14 PORT: 10ftlbs.	3/8-16 PORT: 6ftlbs.
	SAE-10 PORT: 20ftlbs.		1/2-13 PORT: 8ftlbs.
	SAE-12 PORT: 25ftlbs.		
	SAE-16 PORT: 25ftlbs.		
	SAE-20 PORT: 28ftlbs.		
	SAE-24 PORT: 30ftlbs.		
	SAE-32 PORT: 30ftlbs.		

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





#### 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.

### TNK7

**Complete Tank Solutions** 

Filter Model Number Selection For TNK7

How to Build a Valid Model Number for a Schroeder TNK7:					
BOX 1 BOX 2 BOX 3 BOX 4 BOX 5 BOX 6 BOX 7 BOX 8 BOX 9 BOX 10 BOX 11 TNK					
<b>Example:</b> 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 F S1 S = S1 S S S S S S S S S S S S S S S					

BOX 1	BOX 2	BOX 3		BOX 4		
<b>Product Series</b>	Size	Materi	al	Return Filter & Element Micron Selection		
TNK	7 = 7 Gallon	HD = HD	PE	МТВ		
L]		PA = Ny	on	MTB3 =	3 µm Excelle	ement <sup>®</sup> Z-Media <sup>®</sup> (Synthetic)
				MTB5 =	5 µm Excelle	ement <sup>®</sup> Z-Media <sup>®</sup> (Synthetic)
				MTB10 =	10 µm Exce	llement <sup>®</sup> Z-Media <sup>®</sup> (Synthetic)
				MTB25 =	25 µm Exce	llement <sup>®</sup> Z-Media <sup>®</sup> (Synthetic)
BOX 5	1	BOX 6				BOX 7
BOX 5	ITB) Filt	er Inlet				BOX 7 Filter Options
	ITB) Filt Port O	er Inlet rientation		I NNET		
Inlet Porting (N	ITB) Filt Port O	er Inlet			Viewel	Filter Options
Inlet Porting (N           P12 = 34" NPTF           P16 = 1" NPTF	ITB) Filt Port O 1 =	er Inlet rientation	4		Visual	Filter Options Omit = None
Inlet Porting (M           P12 = ¾" NPTF           P16 = 1" NPTF           S12 = SAE-12	ITB)         Filt           Port O         1 =           2 =         1	er Inlet rientation Rear	4		Visual Electrical	Filter Options Omit = None Y2C = Bottom-mounted gauge in ca
Inlet Porting (N           P12 = 34" NPTF           P16 = 1" NPTF	TTB)         Filt           Port O         1 =           2 =         3 =           4 =         4 =	<b>er Inlet</b> rientation Rear Right				Filter Options Omit = None Y2C = Bottom-mounted gauge in ca Y5 = Back-mounted gauge in cap

S2 = front

BOX 8	BOX 9	
Filler/Breather	Sight Glass	
F = PABS1	S1 = Sight Glass Side	(SINGLE-PORT)
	S2 = Sight Glass Front	
	N = No Sight Glass	S1 = side

	BOX 10			BOX 11
Suction Strainer			(	Options
S =	SAE-20, Side - Flow Rate: 25 GPM		Omit =	No Feet
F =	SAE-20, Front - Flow Rate: 25 GPM		M =	Mounting Feet
N =	No Strainers			

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.

B16 = ISO 228 G-1"

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						
BOX 1 Product Series	BOX 2 Size	BOX 3 Material		Return	BOX 4 Filter & Element Micron Selection	
<b>TNK</b> 12	= 12 Gallon	HD = HDPE			ZT/GZT (GeoSeal®)	
18		PA = Nylon		ZT1/G	iZT1 = 1 µm Excellement® Z-Media® (Synthetic)	
				ZT3/G	ZT3 = 3 μm Excellement® Z-Media® (Synthetic)	
BOX 5		BOX 6		ZT5/G	ZT5 = 5 μm Excellement® Z-Media® (Synthetic)	
P = 1" NPTF	• /	ilter Inlet Orientation		ZT10/GZ	T10 = 10 μm Excellement® Z-Media® (Synthetic)	
PP = Dual 1" NPTF	1 = 2 =	Rear Right		ZT25/GZ	T25 = 25 μm Excellement® Z-Media® (Synthetic)	
S = SAE-16		5			BOX 7	
SS = Dual SAE-16	3 =	Front			Filter Options	
B = ISO 228 G-1"	4 =	Left				
BB = Dual ISO 228 G	-1″	1			Omit = None D = Diffuser	
		2			Y2 = Back-mounted tricolor gauge	
BOX 8	4 -			Visual	Y2C = Bottom-mounted gauge in cap	
Filler/Breather	N N				Y5 = Back-mounted gauge in cap	
					ES = Electric switch	
F = PABS3		orting Options ZT Depicted)		Electrical	ES1 = Heavy-duty electric switch with conduit connection	
BOX 9		PORT)			BOX 10	
Sight Glass		SINGLE PO			Suction Strainer	
S1 = Sight Glass Side			S = SAE-20, 100 Mesh Strainer (25 GPM Flow Rate)			
S2 = Sight Glass Front			、		N = No Strainer / SAE-32 Open Port	
N = No Sight Glass		{ (-()	>)		For TNK18 Only	
			•/		B = SAE-12 Flow Rate: 10 GPM SAE-24 Flow Rate: 25 GPM	
		52				

# TNK12/18

#### Filter Model Number Selection For TNK12 & TNK18

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.

#### SCHROEDER INDUSTRIES | ACCESSORIES 19

# **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					
	BOX 1     BOX 2     BOX 3     BOX 4       Product Series     Size     Material     Return Filter & Element Micron Selection					
	TNK     25 = 25 Gallon     HD = HDPE     GRTB/RT/GRT (G= GeoSeal®)					
	PA = Nylon GRTB1/RT1/GRT1 = 1 µm Excellement® Z-Media® (Synthetic)					
	Choose BOX 5A/6A or 5B/6B     Image: Choose BOX 5A     BOX 6A     GRTB3/RT3/GRT3 =     3 µm Excellement <sup>®</sup> Z-Media <sup>®</sup> (Synthetic)					
	Inlet Porting (GRTB)     Filter Inlet Port Orientation     Image: System 2       P = 1.25" NPT     GRTB5/RT5/GRT5 = 5 μm Excellement® Z-Media® (Synthetic)					
	S = SAE-20 1 = Rear $2 = Right$ $3 = R$					
	B = ISO 228 G-1.25" 3 = Front Porting Options GRTB25/RT25/GRT25 = 25 μm Excellement <sup>®</sup> Z-Media <sup>®</sup> (Synthetic)					
	4 = Left       (GRTB Depicted)       Filters chosen here, go to the corresponding inlet porting options in either Box 5A (GRTB) or Box 5B (RT/GRT).					
	BOX 5B BOX 6B					
	Inlet Porting (RT/GRT) Port AInlet Porting (RT/GRT) Port BInlet Porting (RT/GRT) Port CFilter Inlet Port OrientationN =NoneN =NoneP16 =1" NPTFP16 =1" NPTFP2 = $1 =$ Rear2 =Right					
	$P20 = 1\frac{1}{4}$ " NPTF $P20 = 1\frac{1}{4}$ " NPTF $P16 = 1$ " NPTF $3 = $ Front $3$					
	P24 =     1½" NPTF     P24 =     1½" NPTF     S16 =     SAE-16       P32 =     2" NPTF     P32 =     2" NPTF     Yes     4 =     Left					
	S16 = SAE-16 BOX 7					
	S20 =         SAE-20         S20 =         SAE-20         Filter Options					
	S24 = SAE-24 S24 = SAE-24 Omit = None					
	S32 = SAE-32 S32 = SAE-32 D = Diffuser					
	$F20 = \frac{114'' \text{ SAE 4-bolt}}{\text{flange Code 61}} F20 = \frac{114'' \text{ SAE 4-bolt}}{\text{flange Code 61}} Visual Y2 = Back-mounted tricolor gauge in cap$					
	$F24 = \begin{array}{c} 11/2" \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{array} \\ F24 = \begin{array}{c} 11/2" \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{array} \\ Y5 = \text{Back-mounted gauge in cap} \end{array}$					
	$F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\ \text{flange Code 61} \end{cases} F32 = \begin{cases} 2'' \text{ SAE 4-bolt} \\  S$					
NOTES:	$B24 = ISO 228 G - \frac{1}{2}" B24 = ISO 228 G - \frac{1}{2}"$					
ox 4. Micron Rating refers to the	BOX 8 BOX 9 BOX 10					
return filter element rating. Box 7. Y2C and Y5 options for	Filler/Breather     Sight Glass     Options       F =     PABS1     S1 =     Sight Glass Side     M					
RT/GRT only. THER INFORMATION:	S2 = Sight Glass Front S2 = Sight Glass Front					
Tank Mounting Straps sold as a separate	N =     No Sight Glass     S2     Flow Rate: 25 GPM       SAE-24, 100 Mesh Strainer of     SAE-24, 100 Mesh Strainer of					

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

B = both sides

(25 GPM Flow Rate)

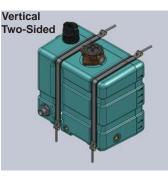
Horizontal

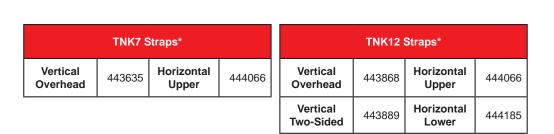
Mobile applications have unique requirements for hydraulic components. Often, these components need to be small, compact and as lightweight as possible. Making sure these reservoirs are secure is often overlooked. Schroeder Industries has taken the steps to ensure that customers have all the tools necessary 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







	TNK18	Straps*			TNK25 \$	Straps*	
Vertical Overhead	3054998	Horizontal Upper	444490	Vertical Overhead	4231789	Horizontal Upper	444490
Vertical Two-Sided	444183	Horizontal Lower	3521866	Vertical Two-Sided	444183	Horizontal Lower	4389641

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

#### Ordering Information:

### Filter/Tank/Cooler

### Description

**FTC** 

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 5 or 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**

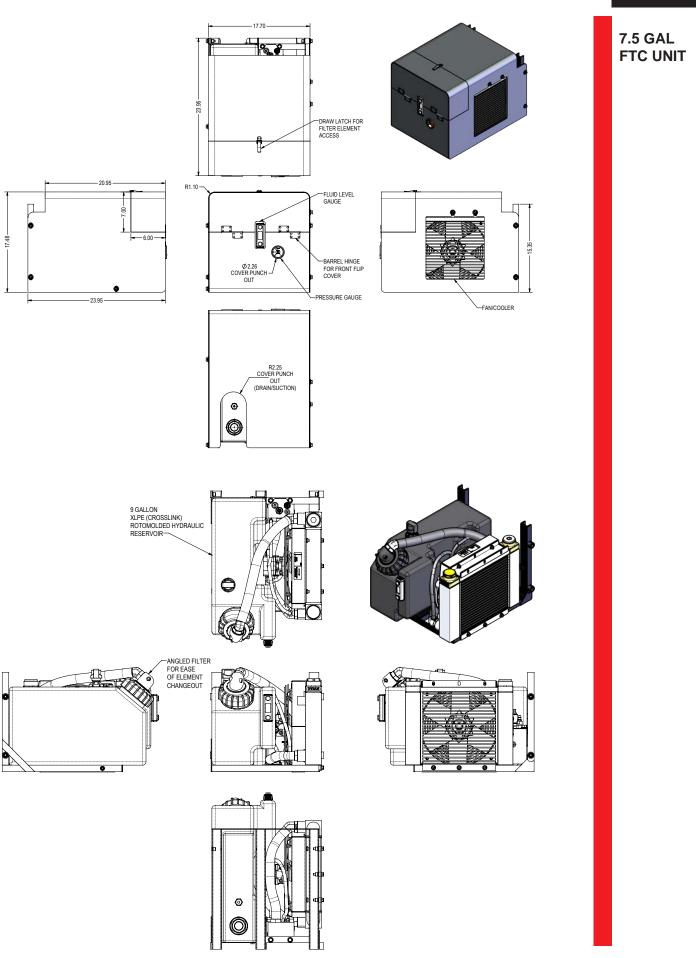
- Automotive
- Environmental
- Forestry
- Industrial
- Machine Tools
- Mobile Vehicles
- Refuse

Cn	ocif	loat	ions
SU	ยนแ	ιcaι	IUIIS

Tank Material:	High Density Polyethylene (HDPE), Nylon (PA)
Tank Volume:	5 Gallon (19L) 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″
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

Filter/Tank/Cooler

## FTC



# FTC Filter/Tank/Cooler

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					
	2012					
	BOX 1 BOX 2 BOX 3 FTC Tank Size Material	BOX 4 Return Filter and Element	BOX 5 Filter Indicator			
	FTC 7 = 7 Gallon HD = HDPE	Micron Selection	$Y2 = \frac{\text{Tricolor visual}}{\text{indicator}}$			
	5 = 5 Gallon PA = Nylon	4LKZJ = element (20 GPM) 4LKZ10 = 10 micron, 4" element (20 GPM)	ES = Electrical Indicator			
		8LKZ5 = 5 micron, 8" element (40 GPM)	ES1 = Heavy Duty Electrical Switch			
		8LKZ10 = 10 micron, 8" element (40 GPM)	ES2 = Heavy-duty electric switch with conduit			
			connection Electric switch ES3 = with DIN connector			
	BOX 6 BOX 7	BOX 8	BOX 9			
	Sight Glass Suction Strainer	Cooler	Cooler Voltage			
	FSA = FSA Sight Glass S = 100 Mesh Strainer	ELD 3 = DC motor with 15 HP	12 = 12 volt DC			
	FSK = FSK Sight Glass N = No Strainer	Heat Rejection Hydraulic Motor ELH 3 = with 22 HP of Heat	24 = 24 volt DC Omit = Hydraulic Motor			
		Rejection	Motor			
	BOX 10					
	Cover					
	Omit = Include					
	N = None					