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

Filter and Element Selection:

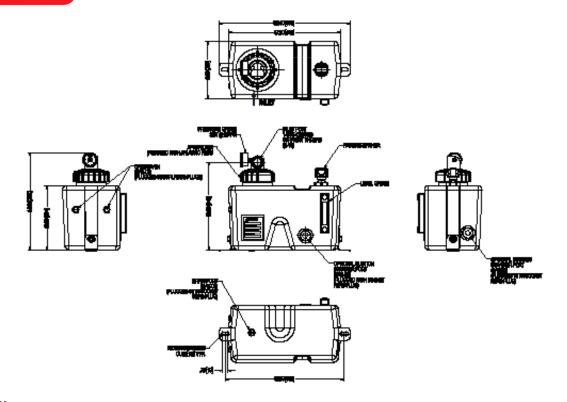
Tank Materials:	High Density Crosslink Polyethylene (XLPE), Nylon (PA)			
Tank Volumes:	4 gal (15L), 7 gal (26L), 12 gal (45L), 18 gal (68L), or 25 gal (95L), 1 gal (4L)			
Operating Temperature:	High Density Polyethylene (HDPE): -40°F to 180°F (-40°C to 82°C) Nylon (PA): -40°F to 240°F (-40°C to 116°C)			
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:	TNK4: 25 gpm TNK18: 40 gpm (150 L/min) TNK7: 35 gpm (135 L/min) TNK25: 75 gpm (284 L/min) TNK12: 40 gpm (150 L/min) TNK1C: 15 GPM (57 L/min)			
Breather:	3 μ phenolic resin impregnated paper ele	ement		
Suction Strainer:	100 μ wire mesh SAE20: 20 gpm SAE24: 30 gpm			
Weight of TNK:	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) TNK1C: 8.00 lbs (3.6 kg)		
Element Change Clearance:	TNK4 (AFT4): 5.3" (134mm) TNK4 (AFT8): 8.6" (219 mm) TNK7: 5" (127mm) TNK12: 10" (254mm) TNK12: 10" (254mm)			
Ultra Violet Light Rating*:	HDPE = UV-12 Nylon = UV-10			
	For proper filter and element selection, in	nformation and pressure drop		

*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).

Schroeder Hydraulic and Lube Catalog (L-2520).

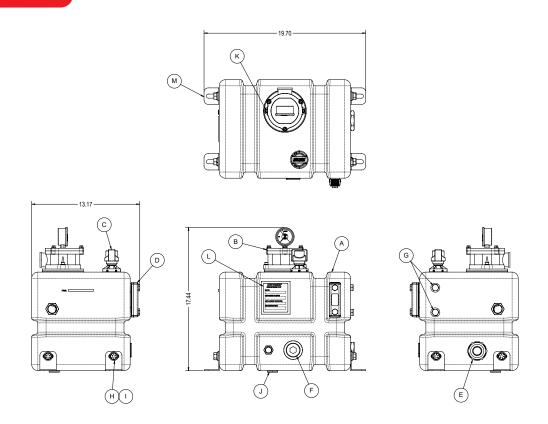
calculations, please refer to the individual filters (MTB, ZT, GZT, RT & GRTB) sections in the

TNK4



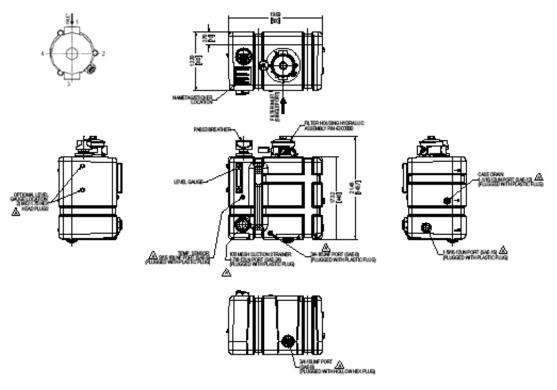
Metric dimensions in [].

TNK7



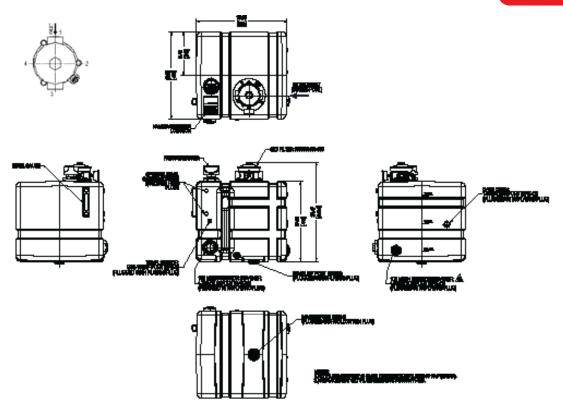
Metric dimensions in [].

TNK12



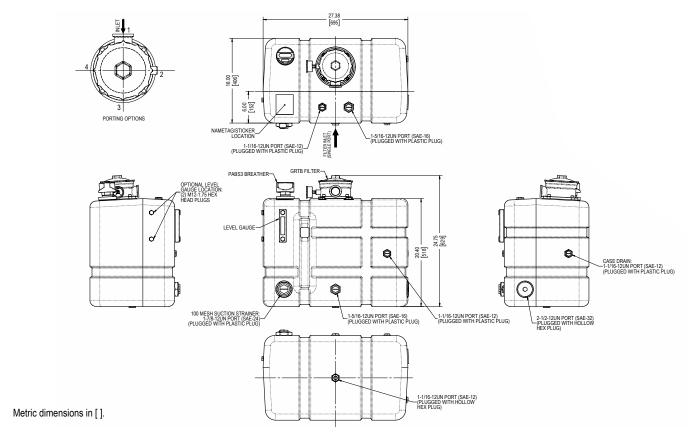
Metric dimensions in [].

TNK18



Metric dimensions in [].

TNK25



Usable Fluid Levels

	Middle Level of Gauge (gal)	Top Level of Gauge (gal)
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
TNK1C		

Torque Specifications

SAE-06 PORT: 8ftlbs.	M12 PORT: 8ftlbs.	1/4-20 PORT: 2ftlbs.
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

TNK1C

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

TNK1C				
TNK Size	Material	Filter Selection	Filler/Breather	Sight Glass

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

*Micron Rating refers to the return filter element rating.

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

TNK4

Material

TNK4
TNK Size

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

Filter Selection

**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				
☐ TNK4 = 4 Gallon	☐ HD = XLPE☐ PA = Nylon				
Filter Option	Element Selection				
Filter Option	Element Length	Element Med	ia & Micron*	Porting	Gauge Port Option
☐ AFT	☐ 4LK = 4" ☐ 8LK = 8"	☐ Z3 = 3 Micron ☐ Z5 = 5 Micron ☐ Z10 = 10 Micron		☐ S16 = SAE-16 ☐ L16 = 90 Deg SAE-16	 N = Plugged Y2 = Tricolor Visual Inidicator (Back Mounted)
		☐ Z25 = 25 N	MICION		Y2C = Tricolor Visual Indicator (Bottom Mounted)
					ES = Electric Switch
					☐ ES1 = Heavy Duty Electric Switch
Filler/Breather	Sight Glass		Suction Str	ainer	
☐ F = PABS1	☐ S2 = Sight Glass Fro☐ N = No Sight Glass	nt		0, Side - Flow Rate: 25 GPM 0, Front - Flow Rate: 25 GPM	

Filler/Breather

Sight Glass

Suction Strainer

*Micron Rating refers to the return filter element rating.

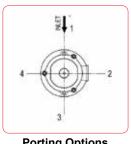
TNK7

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

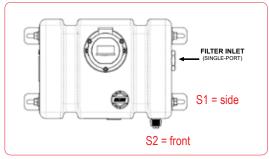
TNK7						
TNK Size	Material	Filter Selection	Filler/Breather	Sight Glass	Suction Strainer	Options

		l			
TNK Size	Material				
☐ TNK7 = 7 Gallon	☐ HD = XLPE☐ PA = Nylon				
Filter Option 1	Element Selection				
Filler Option i	Element Length	Element Media & Micron*	Porting	Gauge Port Option	
☐ AFT	☐ 4LK = 4" ☐ 8LK = 8"	 Z3 = 3 Micron Z5 = 5 Micron Z10 = 10 Micron Z25 = 25 Micron 	☐ S16 = SAE-16 ☐ L16 = 90 Deg SAE-16	 N = Plugged Y2 = Tricolor Visual Inic (Back Mounted) Y2C = Tricolor Visual In (Bottom Mounted) ES = Electric Switch ES1 = Heavy Duty Electric 	ndicator
Filter Option 2	Media & Micron Rating	Porting	Orientation	Filter Options	
Filter Option 2		Porting P12 = 3/4" NPTF P16 = 1" NPTF S12 = SAE-12 S16 = SAE-16 B12 = ISO 228 G-3/4" B16 = ISO 228 G-1"	Orientation □ 1 = Rear □ 2 = Right □ 3 = Front □ 4 = Left		d Gauge in Cap auge in Cap
	Rating ☐ Z3 = 3 Micron ☐ Z5 = 5 Micron ☐ Z10 = 10 Micron	 P12 = 3/4" NPTF P16 = 1" NPTF S12 = SAE-12 S16 = SAE-16 B12 = ISO 228 G-3/4" 	☐ 1 = Rear ☐ 2 = Right ☐ 3 = Front ☐ 4 = Left	Filter Options OMIT = None Y2C = Bottom-Mounted Y5 = Back-Mounted Ga ESC = Electric Pressur (2 Terminals)	d Gauge in Cap auge in Cap

*Micron Rating refers to the return filter element rating.



Porting Options (MTB Depicted)



Sight Glass Options

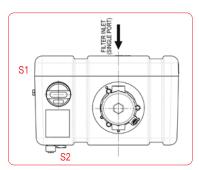
^{**}Starting from the left to the right you will choose your TNK Size and work your way through each category as illustrated above.

TNK12/18

TNK12

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

TNK Size Mate	rial Filter S	Selection Filler/Bre	ather Sight G	lass Suction Strainer	
**Starting from the left to the	e right you will choose you	ır TNK Size and work your way	through each category a	as illustrated above.	
TNK Size	Material				
☐ TNK12 = 12 Gallon	☐ HD = XLPE				
■ TNK18 = 18 Gallon	☐ PA = Nylon				
	Element Selection	n			
Filter Option 1	Element Length	Element Media & Micron*	Porting	Gauge Port Option	
☐ AFT	☐ 4LK = 4"	Z3 = 3 Micron	☐ S16 = SAE-16	☐ N = Plugged	☐ ES = Electric Switch
	☐ 8LK = 8"	Z5 = 5 Micron	☐ L16 = 90 Deg	Y2 = Tricolor Visual Inidicator	☐ ES1 = Heavy Duty
	12LK = 12"	Z10 = 10 Micron	SAE-16	(Back Mounted)	Electric Switch
	☐ 16LK = 16"	Z25 = 25 Micron		Y2C = Tricolor Visual Indicator (Bottom Mounted)	
	Element Selection	on		(the truly	
Filter Option 2	Element Length		Element Media & Micron*		Porting
☐ AFTF	☐ 4LK = 4"	☐ 12LK = 12"	Z3 = 3 Micron	Z10 = 10 Micron	☐ S16 = SAE-16
	■ 8LK = 8"	☐ 16LK = 16"	Z5 = 5 Micron	Z25 = 25 Micron	
	Orientation	Gauge Port Option			Breather
	☐ 1 = Rear	☐ N = Plugged		☐ ES = Electric Switch	☐ B = Breather
	□ 2 = Right	☐ Y2 = Tricolor Visual Inidic	ator (Back Mounted)	☐ ES1 = Heavy Duty	(in filter Head)
	3 = Front	Y2C = Tricolor Visual Indi	cator	Electric Switch	Omit = None
	☐ 4 = Left	(Bottom Mounted)			
Filter Option 3	Media & Micron Rating	Porting	Orientation	Filter Options	
☐ GZT	☐ Z1 = 1 Micron	☐ P = 1" NPTF	☐ 1 = Rear	OMIT = None	Y5 = Back-Mounted
	Z3 = 3 Micron	PP = Dual 1" NPTF	☐ 2 = Right	D = Diffuser	Gauge in Cap
	Z5 = 5 Micron Z10 = 10 Micron	S = SAE-16 SS = Duel SAE-16	 3 = Front 4 = Left	☐ Y2 = Back-Mounted Tricolor Gauge	ES = Electric Switch
	Z25 = 25 Micron	☐ B = ISO 228 G-1"	4 - Leit	Y2C = Bottom-Mounted	☐ ES1 = Heavy-Duty Electric Switch with
		☐ BB = Duel ISO 228 G-1"		Gauge in Cap	Conduit Connection
Filler/Breather		Sight Glass		Suction Strainer	
F = PABS1 (in tank)		☐ S1 = Sight Glass Side		☐ S = SAE-20, Side - Flow Rate: 2	5 GPM
☐ B = Blocked Breather	Port (AFTF Only)	S2 = Sight Glass Front		F = SAE-20, Front - Flow Rate: 2	25 GPM
		☐ N = No Sight Glass		☐ N = No Strainer	



Sight Glass Options

*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.

TNK25

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

TNK25								
TNK Size	Material	F	ilter Selection	Filler/Breather	Sight G	lass Su	uction Strainer	
**Starting from the l	eft to the rig	ght you will choo	se your TNK Size and v	vork your way through	each category a	as illustrated abo	ve.	
TNK Size		Material						
☐ TNK25 = 25	Gallon	☐ HD = XLP☐ PA = Nylor	_					
Filter Option	1	Element S	election					
i liter Option		Element Ler	igth	Eler	nent Media 8	& Micron*	Port	ting
☐ AFT		☐ 4LK = 4" ☐ 8LK = 8"	☐ 12LK =☐ 16LK =	—	23 = 3 Micron 25 = 5 Micron	Z10 = 10Z25 = 25		16 = SAE-16 16 = 90 Deg SAE-16
		Orientatio	n	Gai	uge Port O	ption		
		 1 = Rear 2 = Right 3 = Front 4 = Left 				sual Inidicator (Ba Visual Indicator (E witch	•	
Filter Option	2	Element S	election					
Tiller Option		Element Ler	gth	Eler	nent Media 8	& Micron*	Port	ting
☐ AFTF		☐ 4LK = 4" ☐ 8LK = 8"	☐ 12LK = ☐ 16LK =	-	23 = 3 Micron 25 = 5 Micron	Z10 = 10Z25 = 25		16 = SAE-16
		Orientatio	n Gauge Po	ort Option		Breather		
		☐ 1 = Rear ☐ 2 = Right ☐ 3 = Front ☐ 4 = Left	☐ ES = Ele☐ ES1 = H	ged color Visual Inidicator (Ba ectric Switch leavy Duty Electric Switc lectrical Switch with Deu	:h	☐ Omit = N	ther (in filter Head) None	

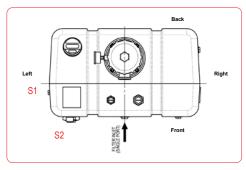
TNK25 Continued on next page:

TNK25

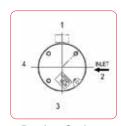
TNK25 Continued:

Filter Option 3	Media & Micron Rating	Porting A	Porting B	Porting C
☐ GRT	☐ Z1 = 1 Micron ☐ Z3 = 3 Micron ☐ Z5 = 5 Micron ☐ Z10 = 10 Micron ☐ Z25 = 25 Micron	 P16 = 1" NPTF P20 = 1 1/4" NPTF P24 = 1 1/2" NPTF P32 = 2" NPTF S16 = SAE-16 S20 = SAE-20 S24 = SAE-24 S32 = SAE-32 F20 = 1 1/4" SAE 4-Bolt Flange Code 61 F24 = 1 1/2" 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-1/2" 	 N = None P16 = 1" NPTF P20 = 1 1/4" NPTF P24 = 1 1/2" NPTF P32 = 2" NPTF S16 = SAE-16 S20 = SAE-20 S24 = SAE-24 S32 = SAE-32 F20 = 1 1/4" SAE 4-Bolt Flange Code 61 F24 = 1 1/2" SAE 4-Bolt Flange Code 61 F32 = 2" SAE 4-Bolt Flange Code 	N = None P16 = 1" NPTF P20 = 1 1/4" NPTF P24 = 1 1/2" NPTF P32 = 2" NPTF S16 = SAE-16 S20 = SAE-20 S24 = SAE-24 S32 = SAE-32 F20 = 1 1/4" SAE 4-Bolt Flange Code 61 F24 = 1 1/2" SAE 4-Bolt Flange Code 61 F32 = 2" SAE 4-Bolt Flange Code
	Orientation		Filter Options	
	1 = Rear 2 = Right 3 = Front 4 = Left		 ☐ OMIT = None ☐ D = Diffuser ☐ Y2 = Back-Mounted Tricolor Omega	
Filter Option 4	Media & Micron Rating	Porting	Orientation Filter O	ptions
☐ GRTB	☐ Z1 = 1 Micron ☐ Z3 = 3 Micron ☐ Z5 = 5 Micron ☐ Z10 = 10 Micron ☐ Z25 = 25 Micron	☐ P = 1" NPTF ☐ S = SAE-16 ☐ B = ISO 228 G-1" ☐ G = 1.25"	□ 2 = Right □ D = D □ 3 = Front □ Y2 = □ 4 = Left □ Y2C = □ Y5 = □ ES =	= None iffuser Back-Mounted Tricolor Gauge = Bottom-Mounted Gauge in Cap Back-Mounted Gauge in Cap Electric Switch = Heavy-Duty Electric Switch with Conduit Connection
Filler/Breather		Sight Glass	Suction Strainer	
☐ F = PABS3 (in Tank) ☐ B = Blocked Breather	Port (AFTF Only)	S1 = Sight Glass Side S2 = Sight Glass Front N = No Sight Glass		er on FRONT Side, Flow Rate:25 GPM er on BOTH Sides, Flow Rate:25 GPM

*Micron Rating refers to the return filter element rating.



Sight Glass Options



Porting Options (GRT Depicted)

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 timesaving 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.