

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 five (5) performance optimized sizes (4, 7, 12, 18, & 25 gal.)
- Return-line filter options available with GeoSeal® aftermarket retaining elements

TNK18: 40 gpm (150 L/min)

TNK18: 10" (254mm)

TNK25: 9.5" (241mm)

TNK4 - 4 Gallons TNK7 - 7 Gallons

TNK12 - 12 Gallons

TNK18 - 18 Gallons

TNK25 - 25 Gallons

100 psi

(7 bar)

Return Line Filter

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) - 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: TNK4: AFT TNK18: ZT & GZT

TNK7: MTB TNK25: RT & GRT

TNK12: ZT & GZT

Max. Return Flow: TNK4: 25 gpm

TNK7: 35 gpm (135 L/min) TNK25: 75 gpm (284 L/min)

TNK12: 40 gpm (150 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: TNK4 (AFT4): 11.5 lbs

TNK18: 33 lbs (15 kg) TNK4 (AFT8): 11.5 lbs TNK25: 45 lbs (20 kg)

TNK7: 16 lbs (7.3 kg) TNK12: 21 lbs (9.7 kg)

Element Change Clearance: TNK4 (AFT4): 5.3" (134mm)

TNK4 (AFT8): 8.6" (219 mm)

TNK7: 5" (127mm)

TNK12: 10" (254mm)

Ultra Violet Light Rating*: HDPE = UV-12

Nylon = UV-10

Filter and Element Selection: For proper filter and element selection, information and pressure drop

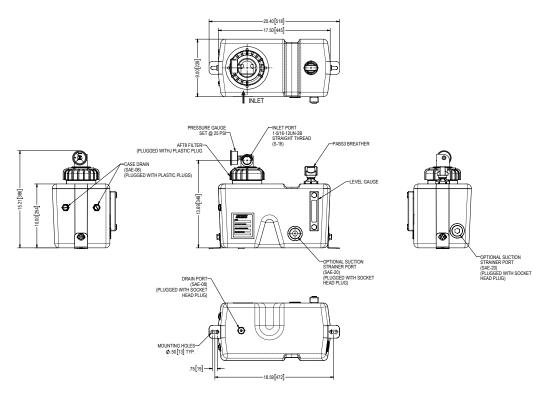
calculations, please refer to the individual filters (MTB, ZT, GZT, RT & GRTB)

sections in the Schroeder Hydraulic and Lube Catalog (L-2520).

Specifications

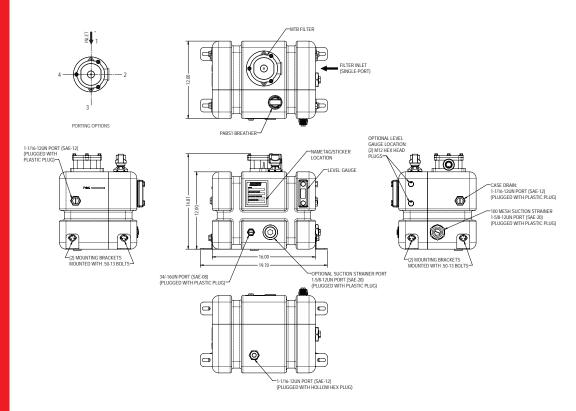
^{*}UV Rating is determined by the number of years a material can be exposed to direct sunlight and retain a minimum of 50% of its original mechanical properties (ex. High Density Polyethylene with a UV-12 rating would be recommended to be replaced every 12 years if not painted or coated).

TNK4



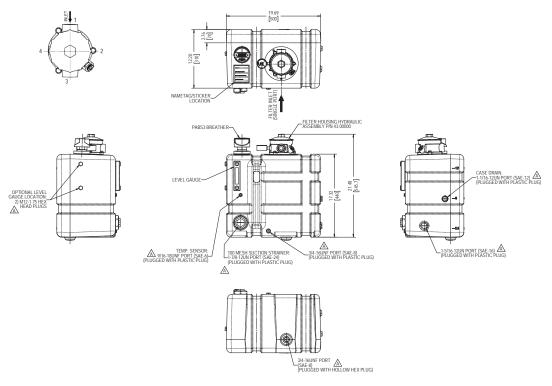
Metric dimensions in [].

TNK7

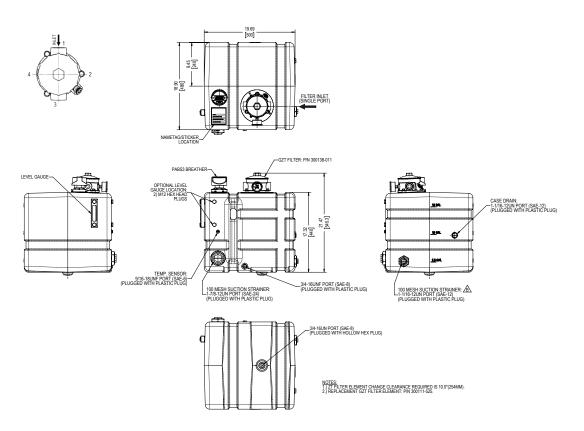


Metric dimensions in [].

TNK12



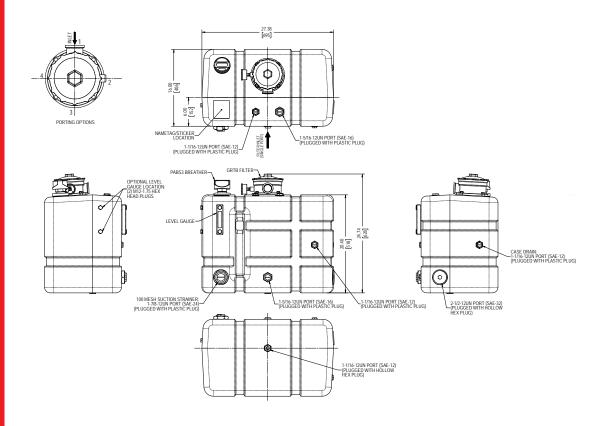
Metric dimensions in [].



Metric dimensions in [].

TNK18

TNK25



Metric dimensions in [].

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

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.		

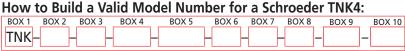
^{*} NOT RECOMMENDED TO EXCEED 30ft.-lbs. TORQUE

TNK 4

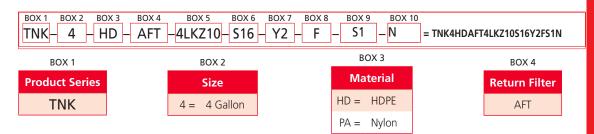
Filter Model Number Selection For TNK4



Suction flow rate for the TNK 4 Strainer is 10 GPM.



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



BOX 5

Element Micron Selection

4LKZ3 = 4" 3 micron Z-Media®

4LKZ5 = 4" 5 micron Z-Media®

4LKZ10 = 4" 10 micron Z-Media®

4LKZ25 = 4" 25 micron Z-Media®

8LKZ3 = 8" 3 micron Z-Media®

8LKZ5 = 8" 5 micron Z-Media®

8LKZ10 = 8" 10 micron Z-Media®

8LKZ25 = 8" 25 micron Z-Media®

BOX 6
Inlet Porting (AFT)

S16 = SAE-16 L16 = 90 Deg SAE-16

BOX 7

Gauge Port Option (Elbow Only)

N = Plugged
 Y2 = Tricolor Visual Indicator (Back Mounted)
 Y2C = Tricolor Visual Indicator (Bottom Mounted)
 ES = Electric Switch
 ES1 = Heavy Duty Electric Switch

BOX 8

Filler/Breather

F = PABS1

BOX 9

Sight Glass

S1 = Sight Glass Side

N = No Sight Glass

BOX 10

Suction Strainer

S = SAE-20, Side - Flow Rate: 25 GPM

F = SAE 20, Front - Flow Rate: 25 GPM

N = No Strainer

NOTES:

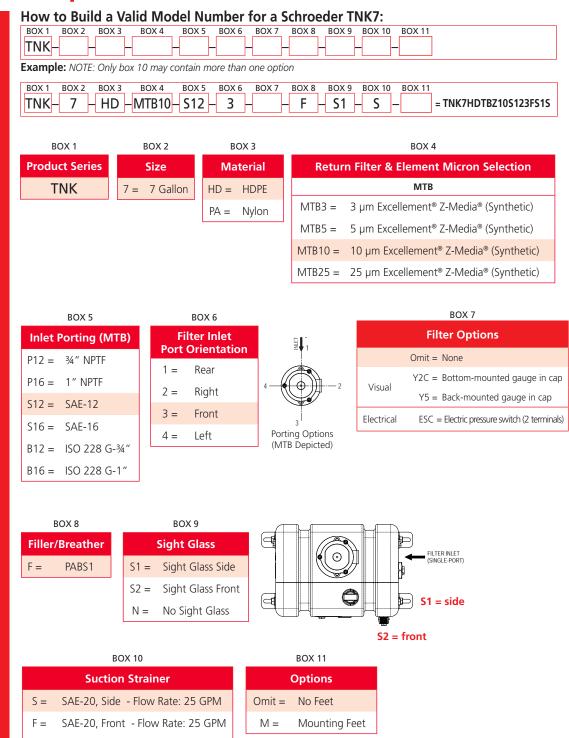
Box 4. Micron Rating refers to the return filter element rating.

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

TNK7

Filter Model Number Selection For TNK7

Complete Tank Solutions



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. No Strainers

TNK12/18

Filter Model Number

Selection For TNK12 & TNK18

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

Γ	BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	ROX 9	BOX 10
	DOAL	DOME	BOKS	DOX 4	DONS	DONO	DOM	DOMO	DONS	DO/(10
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н										

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

BOX 1 BOX 2 BOX 3 B	OX 4 BOX 5 BOX 6 BOX	(7 BOX 8 BOX 9 BOX 10	
TNK- 12 - HD - Z	T10 – S – 3 – Y	2 - F - S2 - S = TNK12HDZT10S3Y2F	S2S

BOX 1

Product Series TNK

Size			
12 =	12 Gallon		
18 –	18 Gallon		

ROX 2

ВОХ	(3

Material			
HD =	HDPE		
PA =	Nylon		

BOX 6

Filter Inlet

Port Orientation

Rear

Right

Front

Left

1 =

2 =

3 =

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"

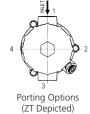
BOX 7

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

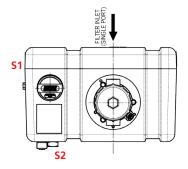
Filler/Breather

PABS3



BOX 9

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



BOX 10

Suction Strainer

SAE-20, 100 Mesh Strainer S = (25 GPM Flow Rate)

No Strainer / SAE-32 Open Port N =

For TNK18 Only

SAE-12 Flow Rate: 10 GPM B = SAE-24 Flow Rate: 25 GPM

NOTES:

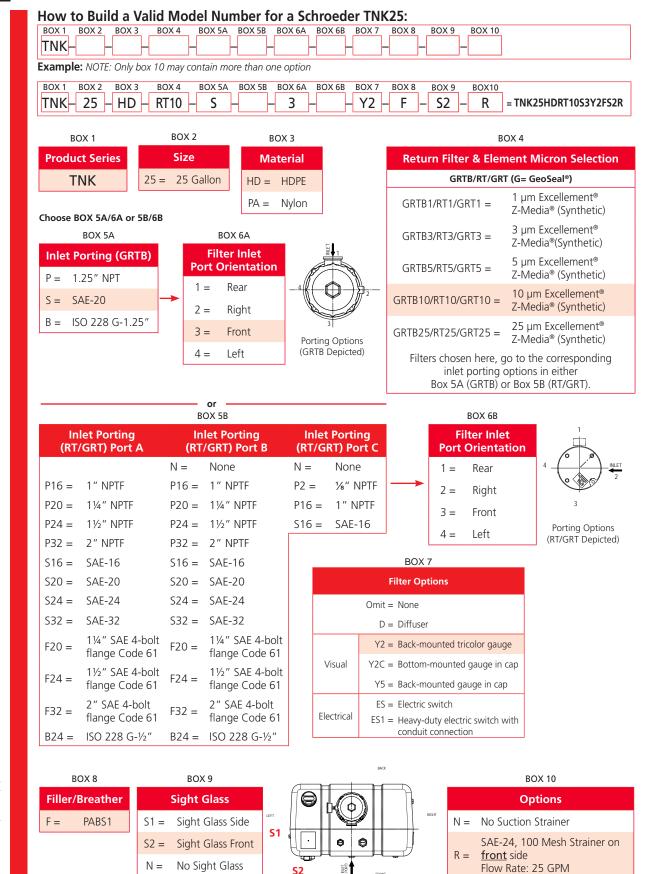
Box 4. Micron Rating refers to the return filter element rating.

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



SAE-24, 100 Mesh Strainer on

both sides

(25 GPM Flow Rate)

NOTES:

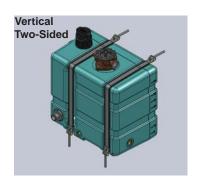
Box 4. Micron Rating refers to the return filter element rating. *Box 7. Y2C and Y5 options for RT/GRT only.

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

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

	TNK7 S	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.

Ordering Information: