

# 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<sup>®</sup> aftermarket retaining elements

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

**100 psi**  
**(7 bar)**  
**Return Line**  
**Filter**

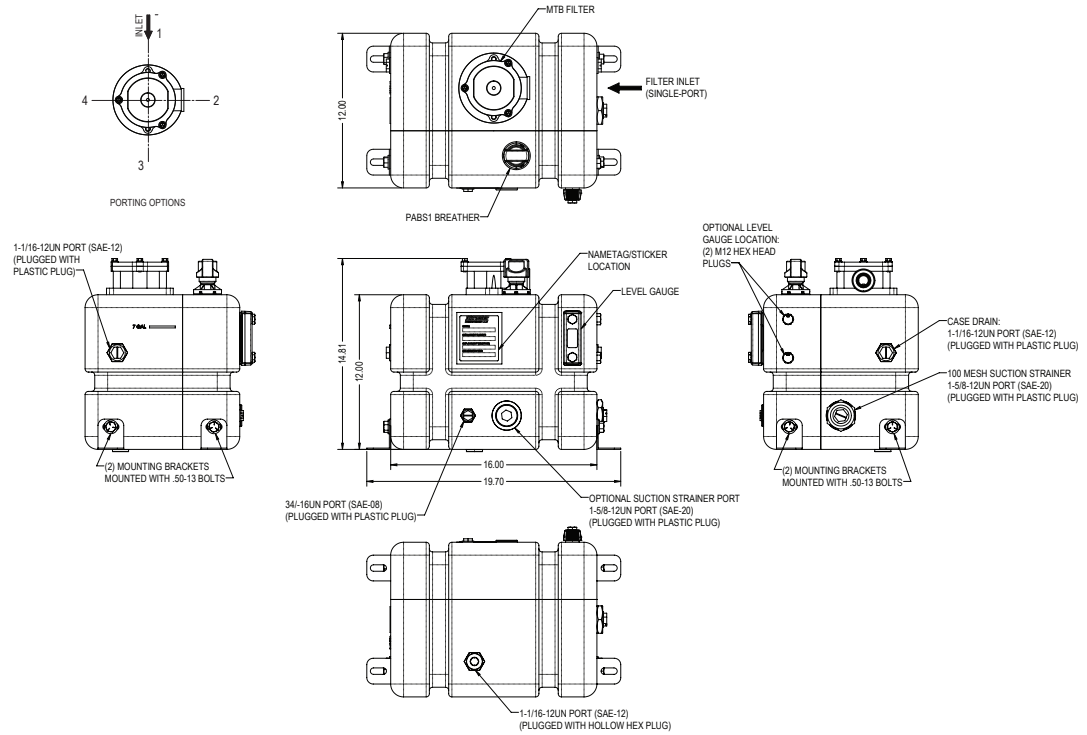
## Specifications

<b>Tank Materials:</b>	High Density Polyethylene (HDPE)
<b>Tank Volumes:</b>	7 gal (26L), 12 gal (45L), 18 gal (70L) or 25 gal (100L)
<b>Operating Temperature:</b>	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)
<b>Return Line Filter:</b>	TNK7: MTB TNK12: ZT & GZT TNK18: ZT & GZT TNK25: RT & GRT
<b>Max. Return Flow:</b>	TNK7: 35 gpm (135 L/min) TNK12: 40 gpm (150 L/min) TNK18: 40 gpm (150 L/min) TNK25: 75 gpm (284 L/min)
<b>Breather:</b>	3 µ phenolic resin impregnated paper element
<b>Suction Strainer:</b>	100 µ wire mesh SAE20: 20 gpm SAE24: 30 gpm
<b>Weight of TNK:</b>	TNK7: 16 lbs (7.3 kg) TNK12: 21 lbs (9.7 kg) TNK18: 33 lbs (15 kg) TNK25: 45 lbs (20 kg)
<b>Element Change Clearance:</b>	TNK7: 5" (127mm) TNK12: 10" (254mm) TNK18: 10" (254mm) TNK25: 9.5" (241mm)
<b>Ultra Violet Light Rating*:</b>	HDPE = UV-12 Nylon = UV-10
<b>Filter and Element Selection:</b>	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).

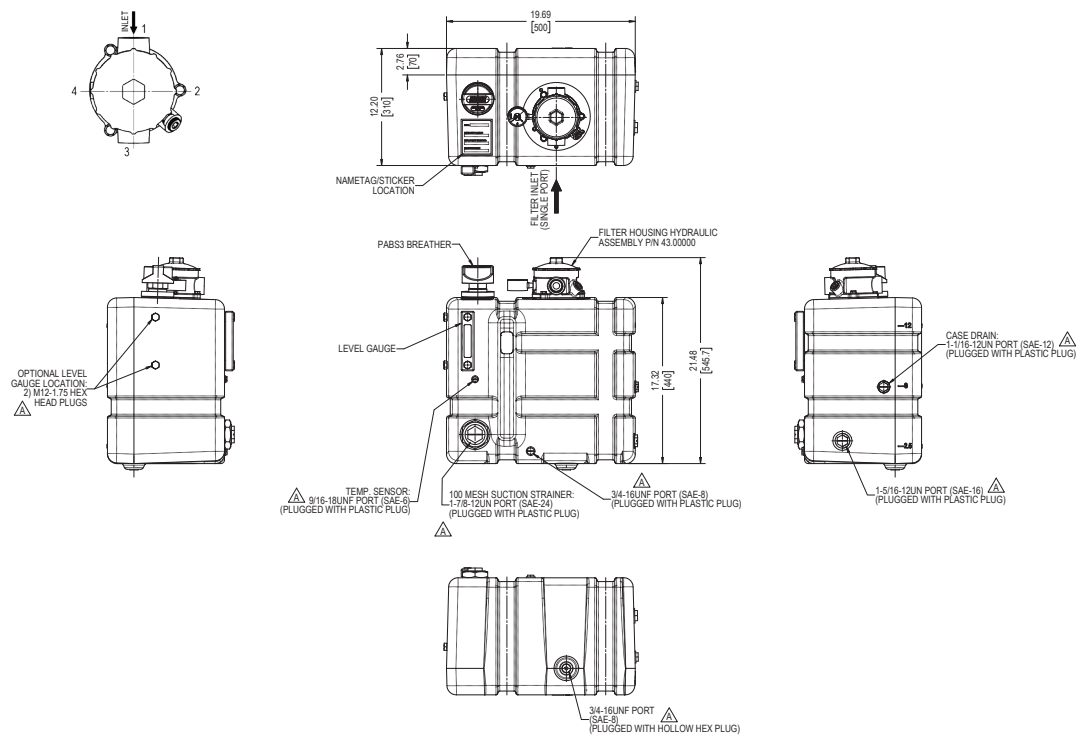
# Complete Tank Solutions

## TNK7



Metric dimensions in [ ].

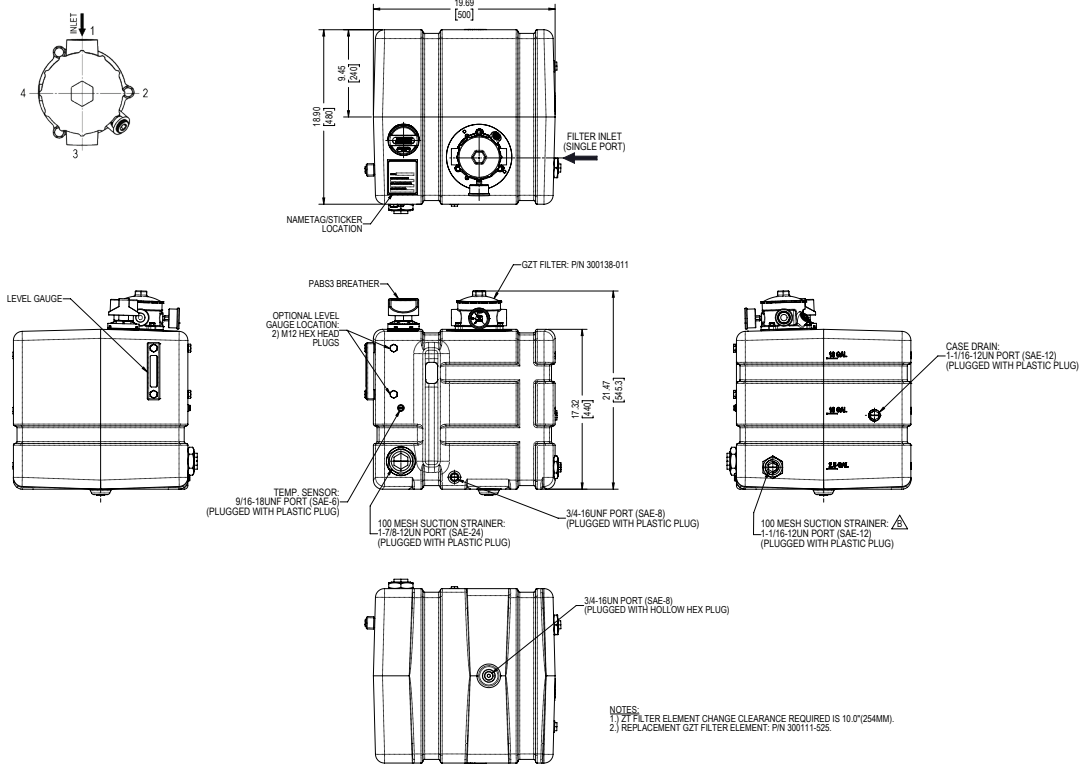
## TNK12



Metric dimensions in [ ].

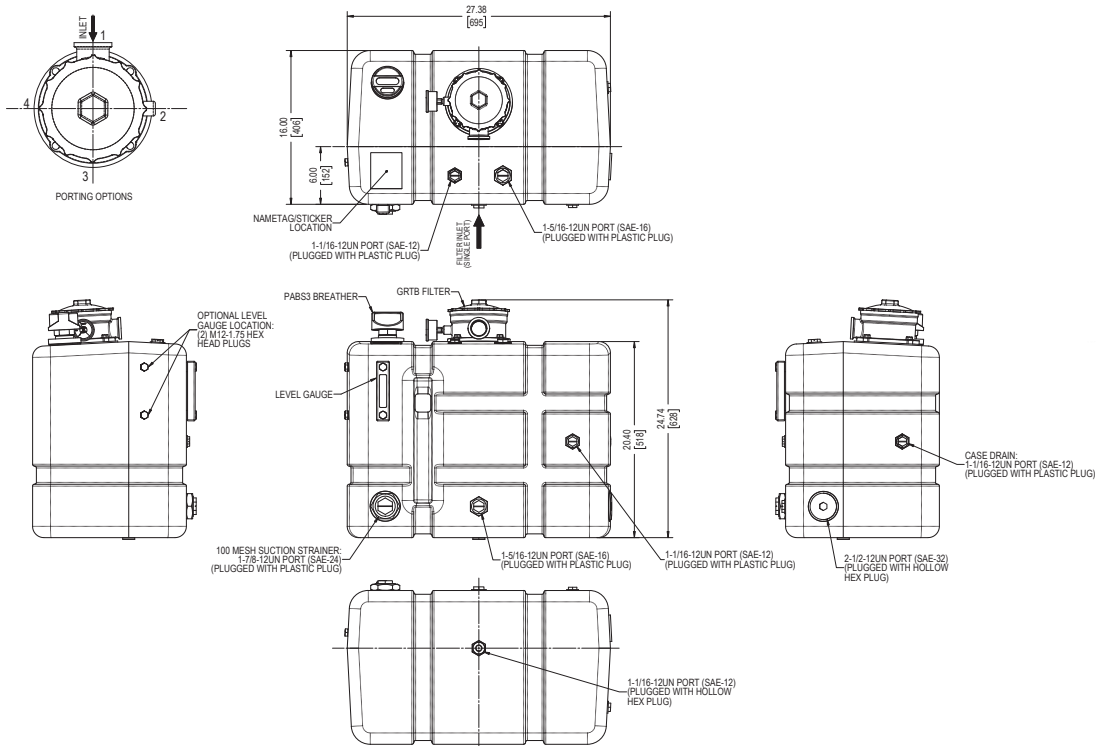
# Complete Tank Solutions

TNK18



Metric dimensions in [ ].

TNK25



Metric dimensions in [ ].

## 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										

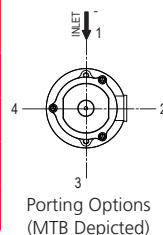
Example: NOTE: Only box 10 may contain more than one option

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		BOX 2		BOX 3		BOX 4											
Product Series		Size		Material		Return Filter & Element Micron Selection											
TNK		7 = 7 Gallon		HD = HDPE PA = Nylon		<table><tr><th colspan="2">MTB</th></tr><tr><td>MTB3 =</td><td>3 µm Excellement® Z-Media® (Synthetic)</td></tr><tr><td>MTB5 =</td><td>5 µm Excellement® Z-Media® (Synthetic)</td></tr><tr><td>MTB10 =</td><td>10 µm Excellement® Z-Media® (Synthetic)</td></tr><tr><td>MTB25 =</td><td>25 µm Excellement® Z-Media® (Synthetic)</td></tr></table>		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)
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	BOX 6	BOX 7
Inlet Porting (MTB)	Filter Inlet Port Orientation	Filter Options
P12 = ¾" NPTF	1 = Rear	Omit = None
P16 = 1" NPTF	2 = Right	Visual Y2C = Bottom-mounted gauge in cap
S12 = SAE-12	3 = Front	Y5 = Back-mounted gauge in cap
S16 = SAE-16	4 = Left	Electrical ESC = Electric pressure switch (2 terminals)
B12 = ISO 228 G-¾"		
B16 = ISO 228 G-1"		



BOX 8	BOX 9
Filler/Breather	Sight Glass
F = PABS1	S1 = Sight Glass Side S2 = Sight Glass Front N = No Sight Glass

S2 = side  
S1 = front

BOX 10	BOX 11
Suction Strainer	Options
S = SAE-20, side F = SAE-20, front N = No Strainers	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	BOX 2	BOX 3	BOX 4
<b>Product Series</b>	<b>Size</b>	<b>Material</b>	<b>Return Filter &amp; Element Micron Selection</b>
TNK	12 = 12 Gallon 18 = 18 Gallon	HD = HDPE PA = Nylon	<b>ZT/GZT (GeoSeal®)</b> 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	BOX 6
<b>Inlet Porting (ZT/GZT)</b>	<b>Filter Inlet Port Orientation</b>
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"	1 = Rear 2 = Right 3 = Front 4 = Left

BOX 7
<b>Filter Options</b>
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
<b>Filler/Breather</b>
F = PABS3

BOX 9
<b>Sight Glass</b>
S1 = Sight Glass Side S2 = Sight Glass Front N = No Sight Glass

BOX 10
<b>Suction Strainer</b>
S = SAE-20, 100 Mesh Strainer N = No Strainer / SAE-32 Open Port <div style="text-align: center;">For TNK18 Only</div> B = SAE-12 and SAE-24 Strainers

Porting Options (ZT Depicted)

## 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.

## 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	BOX 10
TNK	25	HD	RT10	S		3		Y2	F	S2	R

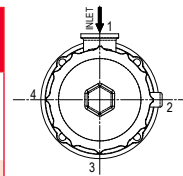
= TNK25HDRT10S3Y2FS2R

BOX 1	BOX 2	BOX 3
Product Series	Size	Material
TNK	25 = 25 Gallon	HD = HDPE PA = Nylon

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

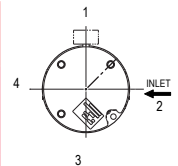


Porting Options (GRTB Depicted)

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).

or BOX 5B		
Inlet Porting (RT/GRT) Port A	Inlet Porting (RT/GRT) Port B	Inlet Porting (RT/GRT) Port C
P16 = 1" NPTF	N = None	N = None
P20 = 1¼" NPTF	P16 = 1" NPTF	P2 = ½" NPTF
P24 = 1½" NPTF	P20 = 1¼" NPTF	P16 = 1" NPTF
P32 = 2" NPTF	P24 = 1½" NPTF	S16 = SAE-16
S16 = SAE-16	P32 = 2" NPTF	
S20 = SAE-20	S16 = SAE-16	
S24 = SAE-24	S20 = SAE-20	
S32 = SAE-32	S24 = SAE-24	
F20 = 1¼" SAE 4-bolt flange Code 61	S32 = SAE-32	
F24 = 1½" SAE 4-bolt flange Code 61	F20 = 1¼" SAE 4-bolt flange Code 61	
F32 = 2" SAE 4-bolt flange Code 61	F24 = 1½" SAE 4-bolt flange Code 61	
B24 = ISO 228 G-½"	F32 = 2" SAE 4-bolt flange Code 61	
	B24 = ISO 228 G-½"	

BOX 6B
Filter Inlet Port Orientation
1 = Rear
2 = Right
3 = Front
4 = Left



Porting Options (RT/GRT Depicted)

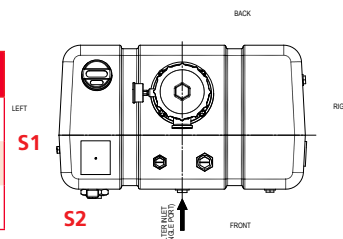
BOX 7
Filter Options
Omit = None
D = Diffuser
Visual
Y2 = Back-mounted tricolor gauge
Y2C = Bottom-mounted gauge in cap
Y5 = Back-mounted gauge in cap
Electrical
ES = Electric switch
ES1 = Heavy-duty electric switch with conduit connection

#### 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.

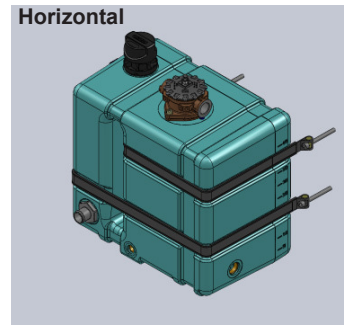
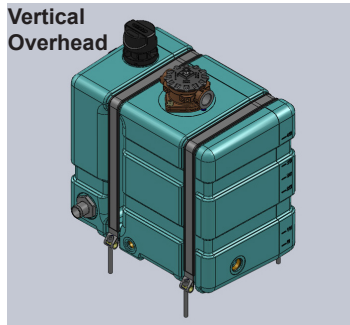
BOX 8	BOX 9
Filler/Breather	Sight Glass
F = PABS1	S1 = Sight Glass Side
	S2 = Sight Glass Front
	N = No Sight Glass



BOX 10
Options
N = No Suction Strainer
R = Mesh Strainer on front side
B = Mesh Strainer on both sides

# 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

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.

## Ordering Information: