

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[®] aftermarket retaining elements

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

100 psi
(7 bar)
Return Line
Filter

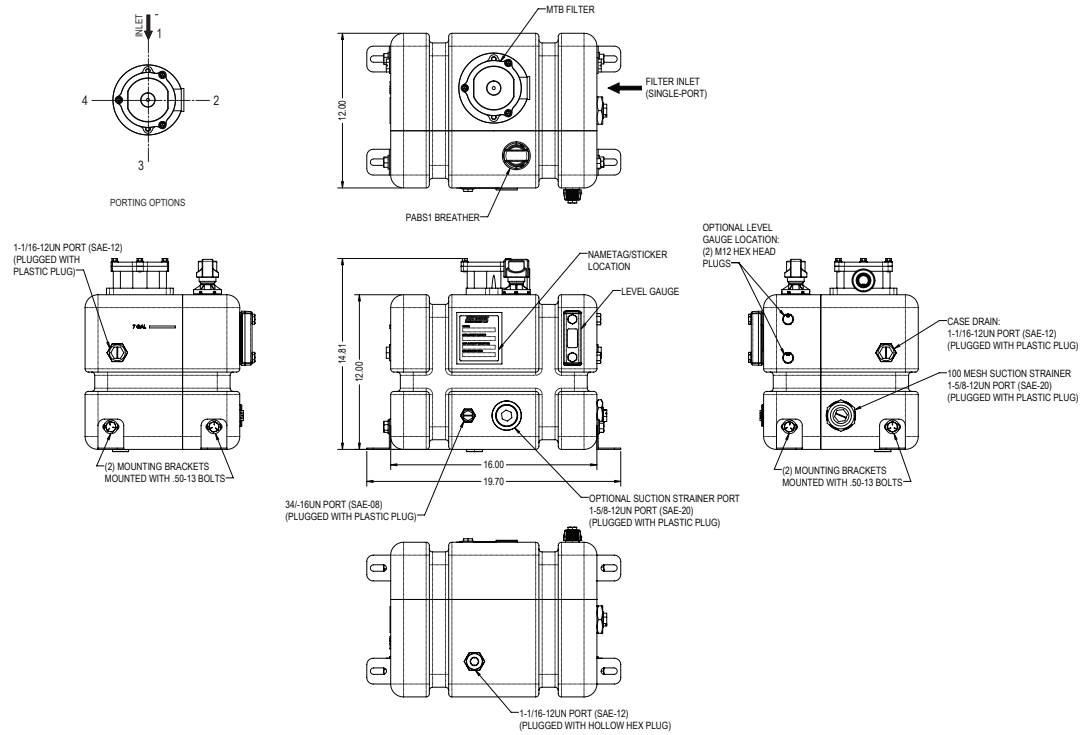
Specifications

| | |
|--------------------------------------|--|
| Tank Materials: | High Density Polyethylene (HDPE) |
| Tank Volumes: | 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) Polypropylene (Polypro) - 32°F to 240°F (0°C to 116°C) |
| Return Line Filter: | TNK7: MTB TNK12: ZT & GZT TNK18: ZT & GZT TNK25: RT & GRT |
| Max. Return Flow: | 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: | 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: | TNK7: 5" (127mm) TNK12: 10" (254mm) TNK18: 10" (254mm) TNK25: 9.5" (241mm) |
| Ultra Violet Light Rating*: | HDPE = UV-12 Polypro = 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).

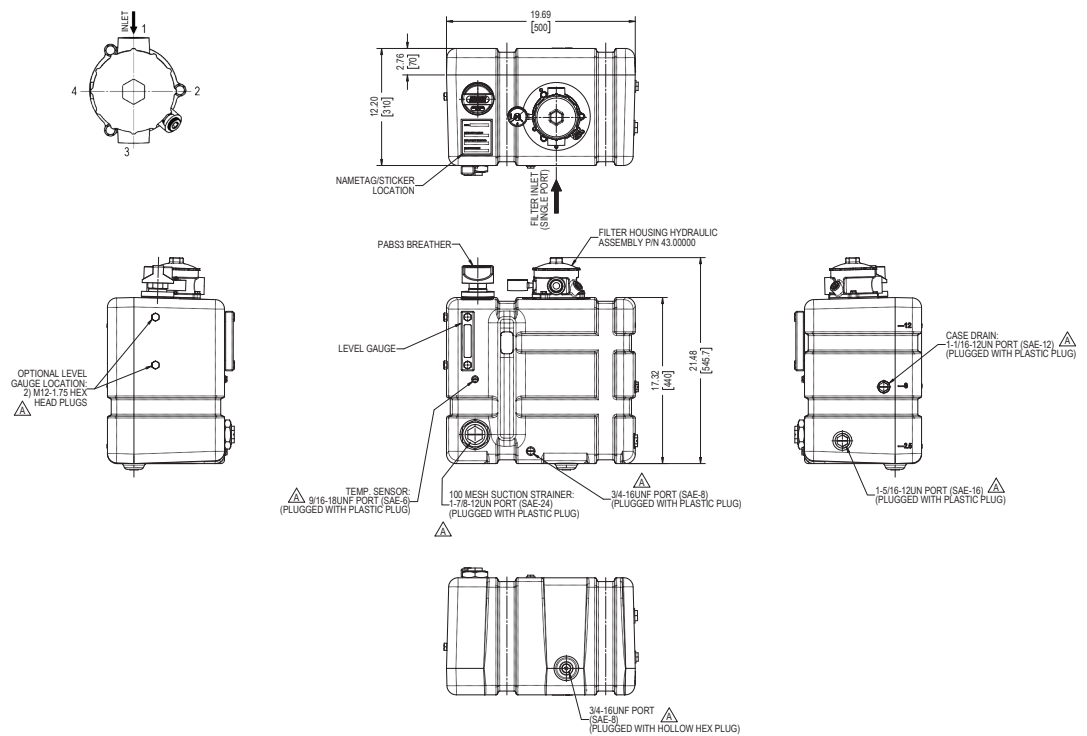
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TNK7



Metric dimensions in [].

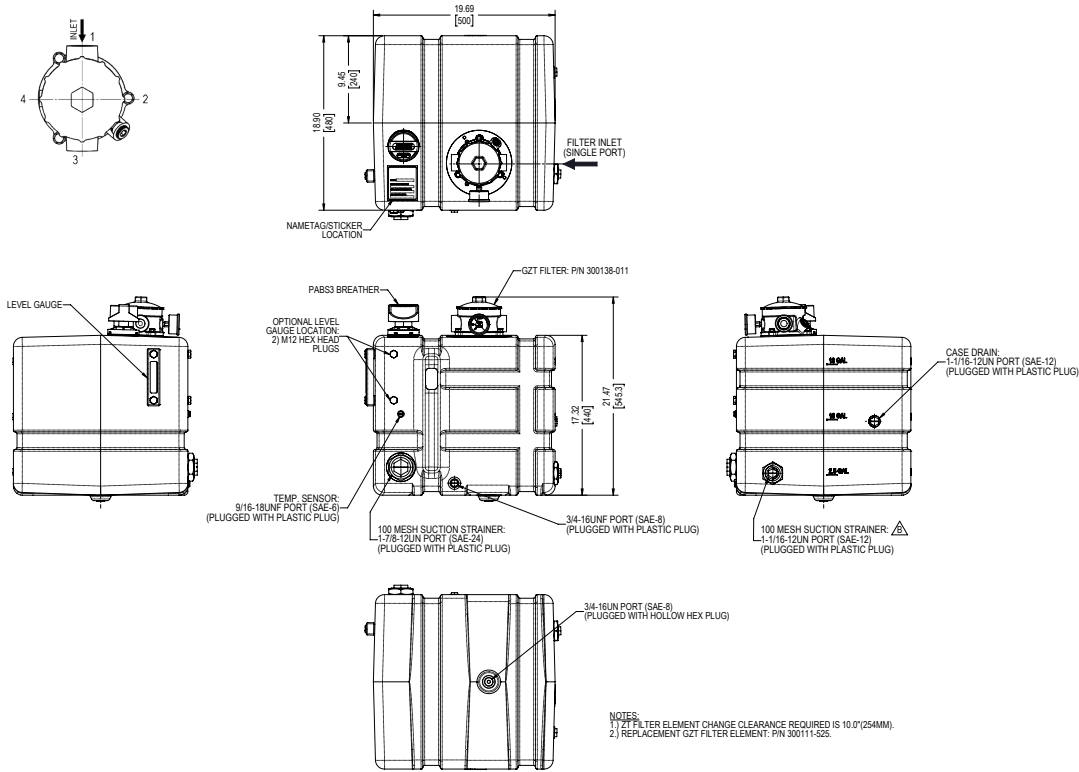
TNK12



Metric dimensions in [].

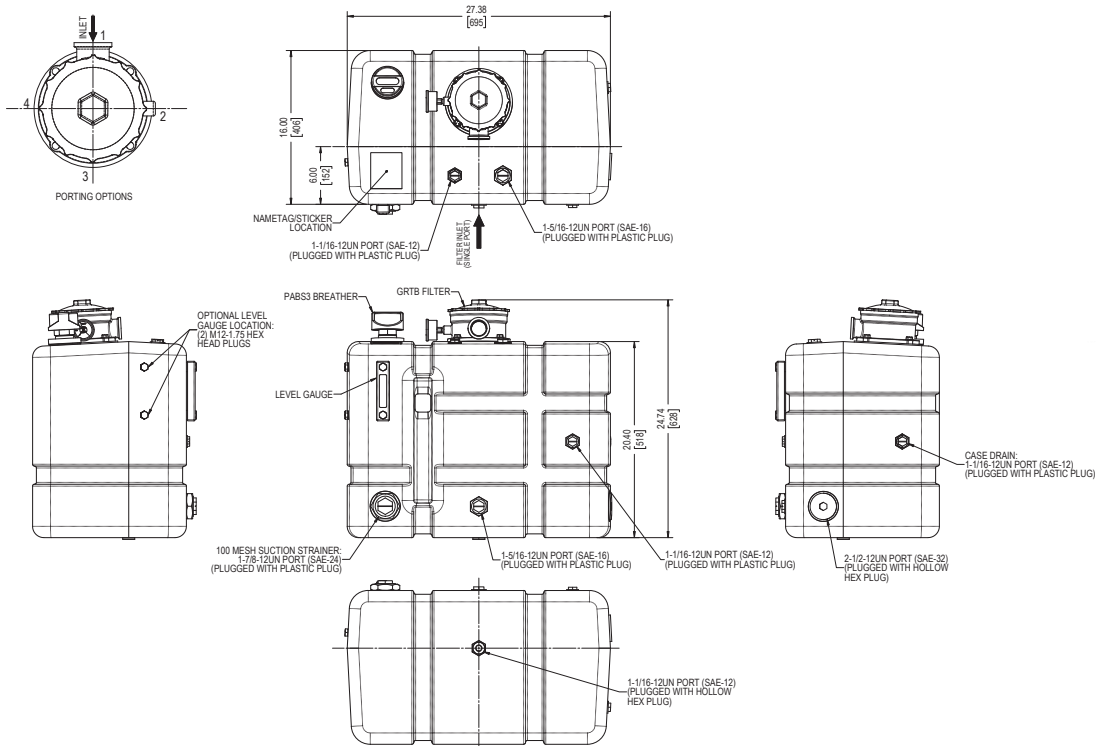
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TNK18



Metric dimensions in [].

TNK25



Metric dimensions in [].

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 | 7 | | | | | | | | | |

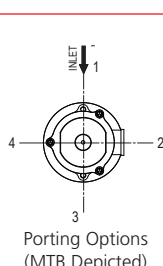
Example: Note: One option per box

| 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 | |

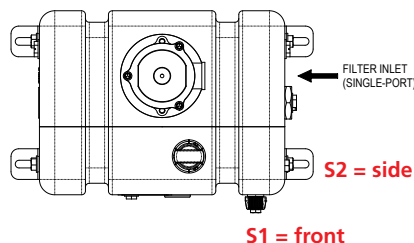
= TNK7HDTBZ10S123FS1S

| BOX 1 | BOX 2 | BOX 3 | BOX 4 |
|----------------|--------------|---------------------------|--|
| Product Series | Size | Material | Return Filter & Element Micron Selection |
| TNK | 7 = 7 Gallon | HD = HDPE PP = Polypro | 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 P16 = 1" NPTF S12 = SAE-12 S16 = SAE-16 B12 = ISO 228 G-¾" B16 = ISO 228 G-1" | 1 = Rear 2 = Right 3 = Front 4 = Left | 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 | BOX 9 |
|-------------------------------|---|
| Filler/Breather | Sight Glass |
| N = No breathers F = PABS1 | S1 = Sight Glass side S2 = Sight Glass front N = No Sight Glass |



| BOX 10 | BOX 11 |
|--|-------------------------------------|
| Suction Strainer | Options |
| S = SAE-20, side B = SAE-20, both 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.

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TNK12/18

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

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 | 12 | | | | | | | | |

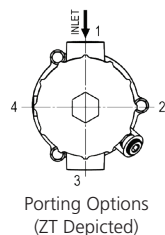
Example: Note: One option per box

| 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 |

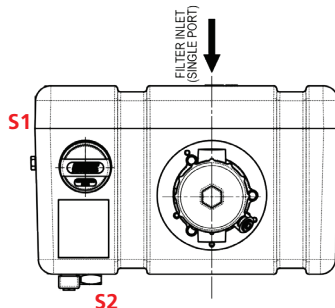
= TNK12HDZT10S3Y2FS2S

| BOX 1 | BOX 2 | BOX 3 | BOX 4 |
|----------------|----------------------------------|---------------------------|---|
| Product Series | Size | Material | Return Filter & Element Micron Selection |
| TNK | 12 = 12 Gallon 18 = 18 Gallon | HD = HDPE PP = Polypro | 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 | BOX 6 | BOX 7 |
|--|--|--|
| Inlet Porting (ZT/GZT) | Filter Inlet Port Orientation | Filter Options |
| 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 | 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 | BOX 9 |
|-------------------------------|---|
| Filler/Breather | Sight Glass |
| N = No breathers F = PABS3 | S1 = Sight Glass Left S2 = Sight Glass Front N = No Sight Glass |



| BOX 10 |
|--|
| Suction Strainer |
| S = SAE-24, 100 Mesh Strainer N = No Strainer / SAE-32 Open Port For TNK18 Only B = SAE-12 and SAE-24 Strainers |

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 6 | BOX 7 | BOX 8 | BOX 9 | BOX 10 |
| TNK | 25 | | | | | | | | | |

Example: Note: One option per box

| | | | | | | | | | | | | |
|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|-------|--------|------------------------|
| 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 | = TNK25HDRT10S3-Y2FS2R |

| BOX 1 | BOX 2 | BOX 3 | BOX 4 |
|----------------|----------------|---------------------------|---|
| Product Series | Size | Material | Return Filter & Element Micron Selection |
| TNK | 25 = 25 Gallon | HD = HDPE PP = Polypro | 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). |

Choose BOX 5A/6A or 5B/6B

| BOX 5A | BOX 6A |
|--|--|
| Inlet Porting (GRTB) | Filter Inlet Port Orientation |
| P = 1.25" NPT S = SAE-20 B = ISO 228 G-1.25" | 1 = Rear 2 = Right 3 = Front 4 = Left |

Porting Options (GRTB Depicted)

| BOX 5B | | | BOX 6B |
|--|--|---|--|
| Inlet Porting (RT/GRT) Port A | Inlet Porting (RT/GRT) Port B | Inlet Porting (RT/GRT) Port C | Filter Inlet Port Orientation |
| 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 B24 = ISO 228 G-1 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 61 B24 = ISO 228 G-1 1/2" | N = None P2 = 1/8" NPTF P16 = 1" NPTF S16 = SAE-16 | 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 |

| BOX 8 | BOX 9 | BOX 10 |
|-------------------------------|---|---|
| Filler/Breather | Sight Glass | Suction Strainer |
| N = No breathers F = PABS3 | S1 = Sight Glass Left S2 = Sight Glass Front N = No Sight Glass | N = No suction strainer R = SAE-24, 100 Mesh Strainer on <u>front</u> side B = SAE-24, 100 Mesh Strainer on <u>both</u> sides |

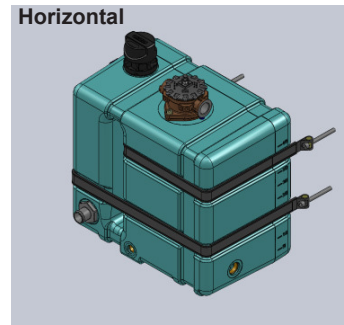
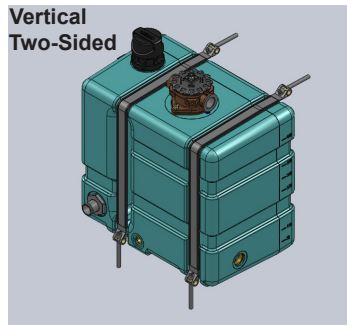
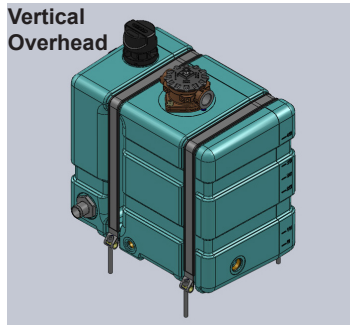
NOTES:

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.

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 | 444066 | Horizontal Upper | 444184 |

| 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: