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

Specifications

<table>
<thead>
<tr>
<th>Tank Materials:</th>
<th>High Density Polyethylene (HDPE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tank Volumes:</td>
<td>7 gal (26L), 12 gal (45L), 18 gal (70L) or 25 gal (100L)</td>
</tr>
<tr>
<td>Operating Temperature:</td>
<td>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)</td>
</tr>
<tr>
<td>Max. Return Flow:</td>
<td>TNK7: 35 gpm (135 L/min)&lt;br&gt; TNK12: 40 gpm (150 L/min)&lt;br&gt; TNK18: 40 gpm (150 L/min)&lt;br&gt; TNK25: 75 gpm (284 L/min)</td>
</tr>
<tr>
<td>Breather:</td>
<td>3 µ phenolic resin impregnated paper element</td>
</tr>
<tr>
<td>Suction Strainer:</td>
<td>100 µ wire mesh&lt;br&gt; SAE20: 20 gpm&lt;br&gt; SAE24: 30 gpm</td>
</tr>
<tr>
<td>Weight of TNK:</td>
<td>TNK7: 16 lbs (7.3 kg)&lt;br&gt; TNK12: 21 lbs (9.7 kg)&lt;br&gt; TNK18: 33 lbs (15 kg)&lt;br&gt; TNK25: 45 lbs (20 kg)</td>
</tr>
<tr>
<td>Element Change Clearance:</td>
<td>TNK7: 5” (127mm)&lt;br&gt; TNK12: 10” (254mm)&lt;br&gt; TNK18: 10” (254mm)&lt;br&gt; TNK25: 9.5” (241mm)</td>
</tr>
<tr>
<td>Ultra Violet Light Rating*:</td>
<td>HDPE = UV-12&lt;br&gt; Polypro = UV-10</td>
</tr>
<tr>
<td>Filter and Element Selection:</td>
<td>For proper filter and element selection, information and pressure drop calculations, please refer to the individual filters (MTB, ZT, GZT, RT &amp; GRT) sections in the Schroeder Hydraulic and Lube Catalog (L-2520).</td>
</tr>
</tbody>
</table>

*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**

<table>
<thead>
<tr>
<th>PORTING OPTIONS</th>
<th>FILTER HOUSING HYDRAULIC ASSEMBLY PART N 09000</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/16&quot; GUN PORT (SAE-12) (PLUGGED WITH PLASTIC PLUG)</td>
<td>FILTER INLET (SINGLE PORT)</td>
</tr>
<tr>
<td>MOUNTING BRACKETS MOUNTED WITH 3D HEX HEAD BOLTS</td>
<td></td>
</tr>
</tbody>
</table>

**TNK12**

<table>
<thead>
<tr>
<th>PORTING OPTIONS</th>
<th>FILTER HOUSING HYDRAULIC ASSEMBLY PART N 09000</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; HUN-FORT (SAE-08) (PLUGGED WITH PLASTIC PLUG)</td>
<td>FILTER INLET (SINGLE-PORT)</td>
</tr>
<tr>
<td>(2) MOUNTING BRACKETS MOUNTED WITH .50-13 BOLTS</td>
<td></td>
</tr>
</tbody>
</table>

Metric dimensions in [ ].
TNK18

Metric dimensions in [ ].

TNK25

Metric dimensions in [ ].
# Complete Tank Solutions

## How to Build a Valid Model Number for a Schroeder TNK7:

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
<th>BOX 7</th>
<th>BOX 8</th>
<th>BOX 9</th>
<th>BOX 10</th>
<th>BOX 11</th>
</tr>
</thead>
<tbody>
<tr>
<td>TNK</td>
<td>7</td>
<td>HD</td>
<td>MTB10</td>
<td>S12</td>
<td>3</td>
<td>F</td>
<td>S1</td>
<td>S</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example:** Note: One option per box

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
<th>BOX 7</th>
<th>BOX 8</th>
<th>BOX 9</th>
<th>BOX 10</th>
<th>BOX 11</th>
</tr>
</thead>
<tbody>
<tr>
<td>TNK</td>
<td>7</td>
<td>HD</td>
<td>MTB10</td>
<td>S12</td>
<td>3</td>
<td>F</td>
<td>S1</td>
<td>S</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

= TNK7HDTBZ10S123FS1S

### Return Filter & Element Micron Selection

<table>
<thead>
<tr>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
<th>BOX 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTB</td>
<td>P12</td>
<td>½” NPTF</td>
<td>Filter Inlet Port Orientation</td>
</tr>
<tr>
<td></td>
<td>P16</td>
<td>1” NPTF</td>
<td>1 = Rear</td>
</tr>
<tr>
<td></td>
<td>S12</td>
<td>SAE-12</td>
<td>2 = Right</td>
</tr>
<tr>
<td></td>
<td>S16</td>
<td>SAE-16</td>
<td>3 = Front</td>
</tr>
<tr>
<td></td>
<td>B12</td>
<td>ISO 228 G-¾”</td>
<td>4 = Left</td>
</tr>
<tr>
<td></td>
<td>B16</td>
<td>ISO 228 G-1”</td>
<td></td>
</tr>
</tbody>
</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)

### Filter Options

- **Omit** = None
- D = Diffuser
- Visual
  - Y2 = Back-mounted tricolor gauge
  - Y2C = Bottom-mounted gauge in cap
  - YS = Back-mounted gauge in cap
- Electrical
  - ES = Electric switch
  - ES1 = Heavy-duty electric switch with conduit connection

### Suction Strainer

- S = SAE-20, side
- B = SAE-20, both
- N = No Strainers

### Filler/Breather

- N = No breathers
- F = PABS1

### Sight Glass

- S1 = Sight Glass side
- S2 = Sight Glass front
- N = No Sight Glass

### Filter Inlet Port Orientation

- 1 = Rear
- 2 = Right
- 3 = Front
- 4 = Left

---

**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:

Example: Note: One option per box

Example: = TNK12HDZT10S3Y2FS2S

Notations:
- BOX 1: Product Series
- BOX 2: Size
- BOX 3: Material
- BOX 4: Return Filter & Element Micron Selection
- BOX 5: Inlet Porting (ZT/GZT)
- BOX 6: Filter Inlet Port Orientation
- BOX 7: Filter Options
- BOX 8: Filler/Breather
- BOX 9: Sight Glass
- BOX 10: Suction 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.
# Complete Tank Solutions

## How to Build a Valid Model Number for a Schroeder TNK25:

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5A</th>
<th>BOX 5B</th>
<th>BOX 6A</th>
<th>BOX 6B</th>
<th>BOX 7</th>
<th>BOX 8</th>
<th>BOX 9</th>
<th>BOX 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>TNK</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Example: Note: One option per box

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5A</th>
<th>BOX 5B</th>
<th>BOX 6A</th>
<th>BOX 6B</th>
<th>BOX 7</th>
<th>BOX 8</th>
<th>BOX 9</th>
<th>BOX 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>TNK</td>
<td>25</td>
<td>HD</td>
<td>RT10</td>
<td>S</td>
<td>3</td>
<td>Y2</td>
<td>F</td>
<td>S2</td>
<td>R</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Return Filter & Element Micron Selection

<table>
<thead>
<tr>
<th>GRTB/RT/GRT (G= GeoSeal®)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRTB1/RT1/GRT1 = 1 µm Excellement® Z-Media® (Synthetic)</td>
</tr>
<tr>
<td>GRTB2/RT2/GRT2 = 3 µm Excellement® Z-Media® (Synthetic)</td>
</tr>
<tr>
<td>GRTB5/RT5/GRT5 = 5 µm Excellement® Z-Media® (Synthetic)</td>
</tr>
<tr>
<td>GRTB10/RT10/GRT10 = 10 µm Excellement® Z-Media® (Synthetic)</td>
</tr>
<tr>
<td>GRTB25/RT25/GRT25 = 25 µm Excellement® Z-Media® (Synthetic)</td>
</tr>
</tbody>
</table>

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

**Inlet Porting (GRTB)**

- \( P = 1.25" \) NPT
- \( S = \text{SAE-20} \)
- \( B = \text{ISO 228 G-1.25"} \)

**Filter Inlet Port Orientation**

- 1 = Rear
- 2 = Right
- 3 = Front
- 4 = Left

### BOX 5B

**Porting Options (GRTB Depicted)**

**Inlet Porting (RT/GRT) Port A**

- \( P16 = 1" \) NPTF
- \( P20 = 1\frac{3}{4}" \) NPTF
- \( P24 = 1\frac{1}{2}" \) NPTF
- \( P32 = 2" \) NPTF
- \( S16 = \text{SAE-16} \)
- \( S20 = \text{SAE-20} \)
- \( S24 = \text{SAE-24} \)
- \( S32 = \text{SAE-32} \)

**Inlet Porting (RT/GRT) Port B**

- \( F20 = 1\frac{3}{4}" \) SAE 4-bolt flange Code 61
- \( F24 = 1\frac{1}{2}" \) SAE 4-bolt flange Code 61
- \( F32 = 2" \) SAE 4-bolt flange Code 61
- \( B24 = \text{ISO 228 G-1\frac{1}{2}"} \)

**Inlet Porting (RT/GRT) Port C**

- \( N = \text{None} \)
- \( P16 = 1" \) NPTF
- \( P20 = 1\frac{3}{4}" \) NPTF
- \( P24 = 1\frac{1}{2}" \) NPTF
- \( P32 = 2" \) NPTF
- \( S16 = \text{SAE-16} \)
- \( S20 = \text{SAE-20} \)
- \( S24 = \text{SAE-24} \)
- \( S32 = \text{SAE-32} \)

## BOX 6B

**Filter Inlet Port Orientation**

- 1 = Rear
- 2 = Right
- 3 = Front
- 4 = Left

**Filter Options**

- Omit = None
- \( D = \text{Diffuser} \)
- Visual
- \( Y2 = \text{Back-mounted tricolor gauge} \)
- \( Y2C = \text{Bottom-mounted gauge in cap} \)
- \( Y5 = \text{Back-mounted gauge in cap} \)
- Electrical
- \( ES = \text{Electric switch} \)
- \( ES1 = \text{Heavy-duty electric switch with conduit connection} \)

## BOX 8

**Filler/Breather**

- \( N = \text{No breathers} \)
- \( F = \text{PABS3} \)

## BOX 9

**Sight Glass**

- \( S1 = \text{Sight Glass Left} \)
- \( S2 = \text{Sight Glass Front} \)
- \( N = \text{No Sight Glass} \)

## BOX 10

**Suction Strainer**

- \( N = \text{No suction strainer} \)
- \( R = \text{SAE-24, 100 Mesh Strainer on front side} \)
- \( B = \text{SAE-24, 100 Mesh Strainer on both sides} \)
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.

<table>
<thead>
<tr>
<th>Vertical Overhead</th>
<th>Vertical Two-Sided</th>
<th>Horizontal</th>
</tr>
</thead>
<tbody>
<tr>
<td>444066</td>
<td>444184</td>
<td></td>
</tr>
<tr>
<td>443868</td>
<td>444066</td>
<td></td>
</tr>
<tr>
<td>443889</td>
<td>444490</td>
<td></td>
</tr>
<tr>
<td>3054998</td>
<td>444183</td>
<td></td>
</tr>
<tr>
<td>3054998</td>
<td>444490</td>
<td></td>
</tr>
<tr>
<td>3521866</td>
<td>4389641</td>
<td></td>
</tr>
</tbody>
</table>

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