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) Nylon (PA) - 32°F to 240°F (0°C to 116°C)</td>
</tr>
</tbody>
</table>
| 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  
                          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). |

*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**

<table>
<thead>
<tr>
<th>Porting Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/16&quot; SAE-12 PORT (PLUGGED WITH PLASTIC PLUG)</td>
</tr>
<tr>
<td>9/16&quot; SAE-12 PORT (PLUGGED WITH PLASTIC PLUG)</td>
</tr>
</tbody>
</table>

**Optional Level Gauge Location:**
- 2) M12-1.75 HEX HEAD PLUGS

**Gauge Location:**
- 9/16-18UNF PORT (SAE-6) (PLUGGED WITH PLASTIC PLUG)
- 3/4-16UNF PORT (SAE-8) (PLUGGED WITH HOLLOW HEX PLUG)

**NAMETAG/STICKER LOCATION:**
- LEVEL GAUGE
- FILTER INLET (SINGLE-PORT)

**Level Gauge:**
- 1-7/8-12UN PORT (SAE-24) (PLUGGED WITH PLASTIC PLUG)
- 3/4-16UNF PORT (SAE-8) (PLUGGED WITH HOLLOW HEX PLUG)

**Optional Level Drain Port:**
- 1-1/16-12UN PORT (SAE-12) (PLUGGED WITH PLASTIC PLUG)

**Optional Oil Filter Drain Port:**
- 1-5/16-12UN PORT (SAE-16) (PLUGGED WITH PLASTIC PLUG)

**Case Drain:**
- 1-1/16-12UN PORT (SAE-12) (PLUGGED WITH HOLLOW HEX PLUG)

**Metric dimensions in [ ]:**

**TNK12**

<table>
<thead>
<tr>
<th>Porting Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; SAE-12 PORT (PLUGGED WITH PLASTIC PLUG)</td>
</tr>
<tr>
<td>1/2&quot; SAE-12 PORT (PLUGGED WITH PLASTIC PLUG)</td>
</tr>
</tbody>
</table>

**Optional Level Gauge Location:**
- 2) M12 HEX HEAD PLUGS

**Gauge Location:**
- 9/16-18UNF PORT (SAE-6) (PLUGGED WITH PLASTIC PLUG)
- 3/4-16UNF PORT (SAE-8) (PLUGGED WITH HOLLOW HEX PLUG)

**NAMETAG/STICKER LOCATION:**
- LEVEL GAUGE
- FILTER INLET (SINGLE-PORT)

**Level Gauge:**
- 1-7/8-12UN PORT (SAE-24) (PLUGGED WITH PLASTIC PLUG)
- 3/4-16UNF PORT (SAE-8) (PLUGGED WITH HOLLOW HEX PLUG)

**Optional Level Drain Port:**
- 1-1/16-12UN PORT (SAE-12) (PLUGGED WITH PLASTIC PLUG)

**Optional Oil Filter Drain Port:**
- 1-5/16-12UN PORT (SAE-16) (PLUGGED WITH PLASTIC PLUG)

**Case Drain:**
- 1-1/16-12UN PORT (SAE-12) (PLUGGED WITH HOLLOW HEX PLUG)

**Metric dimensions in [ ]:**
Metric dimensions in [ ].

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TNK18

Metric dimensions in [ ].

TNK25

Metric dimensions in [ ].
**Complete Tank Solutions**

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

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Series</td>
<td>Size</td>
<td>Material</td>
<td>Return Filter &amp; Element Micron Selection</td>
</tr>
<tr>
<td>TNK</td>
<td>7</td>
<td>HD</td>
<td>MTB</td>
</tr>
</tbody>
</table>

**Example:**

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>TNK</td>
<td>7</td>
<td>HD</td>
<td>MTB10</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>BOX 5</th>
<th>BOX 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet Porting (MTB)</td>
<td>Filter Inlet Port Orientation</td>
</tr>
<tr>
<td>P12 = (\frac{3}{4})&quot; NPTF</td>
<td>1 = Rear</td>
</tr>
<tr>
<td>P16 = 1&quot; NPTF</td>
<td>2 = Right</td>
</tr>
<tr>
<td>S12 = SAE-12</td>
<td>3 = Front</td>
</tr>
<tr>
<td>S16 = SAE-16</td>
<td>4 = Left</td>
</tr>
<tr>
<td>B12 = ISO 228 G-(\frac{3}{4})&quot;</td>
<td></td>
</tr>
<tr>
<td>B16 = ISO 228 G-1&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BOX 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter Options</td>
</tr>
<tr>
<td>Omit = None</td>
</tr>
<tr>
<td>Visual</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Electrical</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BOX 8</th>
<th>BOX 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filler/Breather</td>
<td>Sight Glass</td>
</tr>
<tr>
<td>F = PABS1</td>
<td>S1 = Sight Glass Side</td>
</tr>
<tr>
<td></td>
<td>S2 = Sight Glass Front</td>
</tr>
<tr>
<td></td>
<td>N = No Sight Glass</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BOX 10</th>
<th>BOX 11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suction Strainer</td>
<td>Options</td>
</tr>
<tr>
<td>S = SAE-20, side</td>
<td>Omit = No Feet</td>
</tr>
<tr>
<td>F = SAE-20, front</td>
<td>M = Mounting Feet</td>
</tr>
<tr>
<td>N = No Strainers</td>
<td></td>
</tr>
</tbody>
</table>

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

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

TNK - 12 HD ZT10 S 3 Y2 F S2 S = TNK12HDZT10S3Y2FS2S

BOX 1: Product Series
- TNK

BOX 2: Size
- 12 = 12 Gallon
- 18 = 18 Gallon

BOX 3: Material
- HD = HDPE
- PA = Nylon

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 6: Filter Inlet Port Orientation
- 1 = Rear
- 2 = Right
- 3 = Front
- 4 = Left

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
- F = PABS3

BOX 9: Sight Glass
- S1 = Sight Glass Side
- S2 = Sight Glass Front
- N = No Sight Glass

BOX 10: Suction Strainer
- S = SAE-20, 100 Mesh Strainer
- N = No Strainer / SAE-32 Open Port
- 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.
**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>
</tr>
</thead>
<tbody>
<tr>
<td>TNK</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example:** Note: Only box 10 may contain more than one option

<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>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>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Only box 10 may contain more than one option.

**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

**BOX 6B**

**Porting Options (GRTB Depicted)**

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

**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).

**Notation:**

- **N**: None
- **S**: Sight Glass
- **F**: Filler/Breather
- **S1**: Sight Glass Side
- **S2**: Sight Glass Front
- **N**: No Sight Glass
- **Y2**: Back-mounted tricolor gauge
- **D**: Diffuser
- **Y2C**: Bottom-mounted gauge in cap
- **Y5**: Back-mounted gauge in cap
- **ES**: Electric switch
- **ES1**: Heavy-duty electric switch with conduit connection
- **SAE-24**: SAE-24, 100
- **SAE-24**: SAE-24, 100
- **R**: Mesh Strainer on both sides

**Options**

- **N**: No Suction Strainer
- **R**: Mesh Strainer on front side
- **SAE-24, 100**: SAE-24, 100
- **B**: Mesh Strainer on both 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.
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.

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