# 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 & GRT) 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

- Filter/Filter Housing: Single Port
- M12 Hex Head Plugs
- Mounting Brackets: M5 x 0.8 x 10

TNK12

- Filter/Filter Housing: Single Port
- 1/4"-16 UN Port (SAE-08) (Plugged with Plastic Plug)
- Optional Level Gauge Location: M12 Hex Head Plugs

Metric dimensions in [ ].

TNK12 HYDRAULIC TANK ASSEMBLY P/N 45.00000

Scale: 1:4

4/25/2017

TNK12

HDS FILTER

FILTER INLET

LEVEL GAUGE

OPTIONAL LEVEL GAUGE LOCATION: M12 HEX HEAD PLUGS

1-7/8-12UN PORT (SAE-24) (Plugged with Plastic Plug)

3/4-16UNF PORT (SAE-8) (Plugged with Plastic Plug)

9/16-18UNF PORT (SAE-6) (Plugged with Plastic Plug)

1-1/16-12UN PORT (SAE-12) (Plugged with Plastic Plug)

1-5/16-12UN PORT (SAE-16) (Plugged with Plastic Plug)

1-1/16-12UN PORT (SAE-12) (Plugged with Hollow Hex Plug)

100 MESH SUCTION STRAINER: 1-5/8-12UN PORT (SAE-20) (Plugged with Plastic Plug)

PABS3 BREATHER

NAMETAG/STICKER

LOCATION

FILTER INLET

(SINGLE PORT)

OPTIONAL SUCTION STRAINER PORT

1-5/8-12UN PORT (SAE-20) (Plugged with Plastic Plug)

34/-16UN PORT (SAE-08) (Plugged with Plastic Plug)

2.76

70

310

12.20

346

19.69

500

16.00

19.70

12.00

14.81

Metric dimensions in [ ].

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Metric dimensions in [ ].

Metric dimensions in [ ].
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How to Build a Valid Model Number for a Schroeder TNK7:

<table>
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<th>BOX 7</th>
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<th>BOX 11</th>
</tr>
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<tr>
<td>Product Series</td>
<td>Size</td>
<td>Material</td>
<td>Return Filter &amp; Element Micron Selection</td>
<td>Inlet Porting (MTB)</td>
<td>Filter Inlet Port Orientation</td>
<td>Filter Options</td>
<td>Filler/Breather</td>
<td>Sight Glass</td>
<td>Suction Strainer</td>
<td>Options</td>
</tr>
<tr>
<td>TNK</td>
<td>7 = 7 Gallon</td>
<td>HD = HDPE</td>
<td>MTB3 = 3 µm Excellement® Z-Media® (Synthetic)</td>
<td>P12 = ¾” NPTF</td>
<td>1 = Rear</td>
<td>Omit = None</td>
<td>F = PABS1</td>
<td>S1 = Side</td>
<td>S = SAE-20, side</td>
<td>Omit = No Feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MTB5 = 5 µm Excellement® Z-Media® (Synthetic)</td>
<td>P16 = 1” NPTF</td>
<td>2 = Right</td>
<td>Visual Y2C = Bottom-mounted gauge in cap</td>
<td></td>
<td></td>
<td>F = SAE-20, front</td>
<td>M = Mounting Feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MTB10 = 10 µm Excellement® Z-Media® (Synthetic)</td>
<td>S12 = SAE-12</td>
<td>3 = Front</td>
<td>Y5 = Back-mounted gauge in cap</td>
<td></td>
<td></td>
<td>N = No Strainers</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MTB25 = 25 µm Excellement® Z-Media® (Synthetic)</td>
<td>S16 = SAE-16</td>
<td>4 = Front</td>
<td>Electrical ESC = Electric pressure switch (2 terminals)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>B12 = ISO 228 G-¾”</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>B16 = ISO 228 G-1”</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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.

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

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

TNK - 7 - HD - MTB10 - 3 - F - S1 - S - = TNK7HDTHZ105123FS1S

- BOX 7
  - Filter Options
    - Omit = None
    - Visual Y2C = Bottom-mounted gauge in cap
    - Y5 = Back-mounted gauge in cap
    - Electrical ESC = Electric pressure switch (2 terminals)

- BOX 11
  - S2 = front
  - FILTER INLET (SINGLE-PORT)
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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 8
Filler/Breather
F = PABS3

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 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
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.
**How to Build a Valid Model Number for a Schroeder TNK25:**

**BOX 1**
- Product Series: TNK

**BOX 2**
- Size: 25 = 25 Gallon

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

**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)

**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**
- 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 = PABS1

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

**BOX 10**
- Options
  - N = No Suction Strainer
  - SAE-24, 100
  - 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

- **Vertical Overhead**
- **Vertical Two-Sided**
- **Horizontal**

#### Mounting Possibility

Represents 12, 18 & 25 Gallon

#### Strap Locations

<table>
<thead>
<tr>
<th>Straps</th>
<th>Vertical Overhead</th>
<th>Vertical Two-Sided</th>
<th>Horizontal Upper</th>
<th>Horizontal Lower</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TNK7 Straps</strong></td>
<td>443635</td>
<td>444066</td>
<td>443895</td>
<td>444185</td>
</tr>
<tr>
<td><strong>TNK12 Straps</strong></td>
<td>443868</td>
<td>444066</td>
<td>444185</td>
<td>444183</td>
</tr>
<tr>
<td><strong>TNK18 Straps</strong></td>
<td>3054998</td>
<td>444490</td>
<td>444183</td>
<td>3521866</td>
</tr>
<tr>
<td><strong>TNK25 Straps</strong></td>
<td>4231789</td>
<td>444490</td>
<td>444183</td>
<td>4389641</td>
</tr>
</tbody>
</table>

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