



Model No. of product in photograph is: TNK12HD8ZZ10P2FS2S.

#### **Features and Benefits**

- Package solution comes complete with all accessories 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
- Tested for leakage (no testing is required)
- High degree of cleanliness eliminates timeconsuming flushing processes
- Lightweight and cost efficient
- No risk of corrosion
- Available in two different sizes and configurations
- GeoSeal<sup>®</sup> patented element technology

#### TNK12 - 12 Gallons TNK18 - 18 Gallons TNK25 - 25 Gallons

100 psi (7 *bar*) Return Line Filter

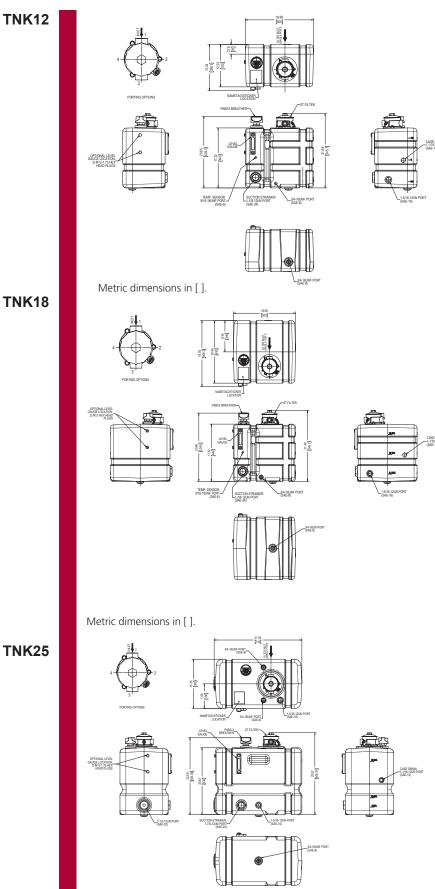
#### **Specifications**

Tank Materials:	High Density Polyethylene (HDPE) Nylon 6 (PA6)
Tank Volumes:	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) Nylon 6 (PA6) - 20°F to 220°F (-29°C to 105°C)
Return Line Filter:	ZT & GZT available
Max. Return Flow:	TNK12: 40 GPM (150 L/min) TNK18: 40 GPM (150 L/min) TNK25: 40 GPM (150 L/min)
Breather:	$3 \mu$ phenolic resin impregnated paper element
Suction Filter:	100 μ wire mesh
Weight of TNK:	TNK12: 21 lbs (9,7 kg) TNK18: 33 lbs (15 kg) TNK25: 42 lbs (19 kg)
Element Change Clearance:	TNK12: 10" (254mm) TNK18: 10" (254mm) TNK25: 10" (254mm)
Ultra Violet Light Rating:	HPDE = UV-12 PA6 = UV-4 (Tank requires painting or placed out of direct sunlight for PA6 material)

## TNK

**Complete Tank Solutions** 







		tio Per ISO 4572/N article counter (APC) cal	Filtration Ratio per ISO 16889 Using APC calibrated per ISO 11171			
Element	β <sub>∗</sub> ≥ 75	$\beta_{x} \ge 100$	$\beta_x(c) \ge 200$	$\beta_x(c) \ge 1000$		
8Z3	6.8	7.5	10.0	N/A	N/A	
8Z10	15.5	16.2	18.0	N/A	N/A	
8ZZ1	<1.0	<1.0	<1.0	<4.0	4.2	
8ZZ3	<1.0	<1.0	<2.0	<4.0	4.8	
8ZZ5	2.5	3.0	4.0	4.8	6.3	
8ZZ10	7.4	8.2	10.0	8.0	10.0	
8ZZ25	18.0	20.0	22.5	19.0	24.0	

Element Performance Information

Element	DHC (gm)	
8Z3	39	
8Z10	32	
8ZZ1	51	
8ZZ3	52	
8ZZ5	59	
8ZZ10	55	
8ZZ25	77	

Element Collapse Rating:150 psid (10 bar)Flow Direction:Outside InElement Nominal Dimensions:3.2" (81 mm) O.D. x 9.25" (235 mm) long

	El	ement	Element selections are predicated on the use of 150 SUS (32 cSt) petroleum based fluid and a 25 psi (1.7 bar) bypass valve.						
Pressure	Series	Part No.							
	E Media	8Z3 paper	8Z3	3 (cellulose medi	a)				
		8Z10 paper	8Z1	0 (cellulose med	ia)				
Return		8Z25 paper	8Z2	5 (cellulose med	ia)				
Line -Tank-	Z- Media®	8ZZ3		8ZZ3					
Mounted		8ZZ5		8ZZ5					
		8ZZ10		8ZZ10					
		8ZZ25		8ZZ25					
	Flow	gpm (	10	20	30	40			
	FIOw	(L/min) (	) 50	1	90	150			

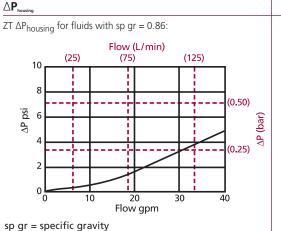
Shown above are the elements most commonly used in this housing.

Note: Contact factory regarding use of E media in High Water Content, Invert Emulsion and Water Glycol Applications. For more information, refer to Fluid Compatibility: Fire Resistant Fluids, pages 21 and 22.

#### Element Dirt Holding Capacity

Pressure Drop Information Based on Flow Rate and Viscosity

Pressure Drop Information Based on Flow Rate and Viscosity

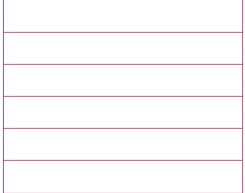


El. $\Delta P$ factors	s @ 150 SUS (32 cSt):
8Z3	.25
8Z10	.09
8Z25	.02
8ZZ1	.37
8ZZ3	.21
8ZZ5	.13
8ZZ10	.11
8ZZ25	.08
If working ir 54.9.	n units of bars & L/min, divide above factor b

sp gr = specific gravity

Sizing of elements should be based on element flow information provided in the Element Selection chart above.

#### Notes



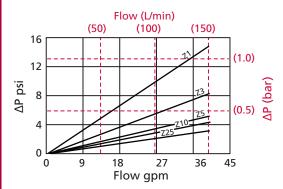
#### $\triangle \mathbf{P}_{\text{filter}} = \triangle \mathbf{P}_{\text{housing}} + \triangle \mathbf{P}_{\text{element}}$

Exercise: Determine  $\Delta P$  at 20 gpm (76 L/min) for ZT8ZZ1PES using 200 SUS (44 cSt) fluid.

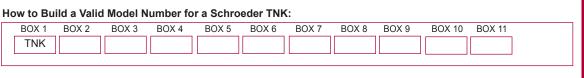
#### Solution:

ΔP <sub>housing</sub>	= 1 psi [.07 bar]
$\Delta P_{element}$	= 20 x .37 x (200÷150) = 9.8 psi
	or
	$= [76 \text{ x} (.37 \div 54.9) \text{ x} (44 \div 32) = 0.7 \text{ bar}]$
$\Delta P_{total}$	= 1.0 + 9.8 = 10.8 psi
	or
	= [.07 + .7 = .77 bar]

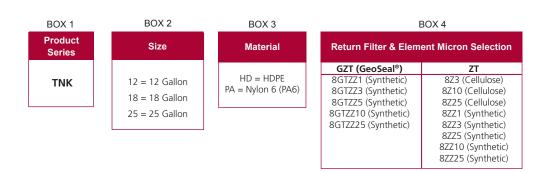
Element Pressure Drop Information

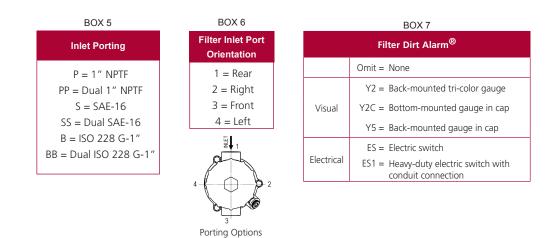


### TNK



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	12	HD	8ZZ10	S	3	Y2	F	S	2	S	= TNK12HD8ZZ
										-		10S3Y2FS2S





BOX 9

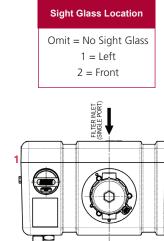
Sight Glass

S = SLG-5

N = No Sight Glass







BOX 10

#### NOTES:

Box 4. Micron Rating refers to the return filter element rating. Tank Mounting Straps sold as a separate part number, please see next page for configurations and options.

FURTHER INFORMATION: PA6 Material must be painted or placed in a location out of direct sunlight to avoid UV degradation.





### Plastic Tank Strap Arrangement Introduction

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 chasse of any mobile vehicle. These straps are offered in three configurations for both sizes of the Plastic Tank in either a steel strap or a rubber coated steel strap.

Mounting Possibility Standard Tank: 12 Gallon



Standard Steel Straps STR12VOS 41.9" (1063 mm)

Rubber Coated Steel Straps STR12VOB 41.9" (1063 mm)



Standard Steel Straps STR12VTS 25.8" (656 mm)

Rubber Coated Steel Straps STR12VTB 25.8" (656 mm)



Rubber Coated Steel Straps

STR12HUB 33.8" (859 mm) STR12HLB 40.2" (1022 mm)

Mounting Possibility Standard Tank: 18 Gallon



Rubber Coated Steel Straps STR18VOB 49.8" (1266 mm)



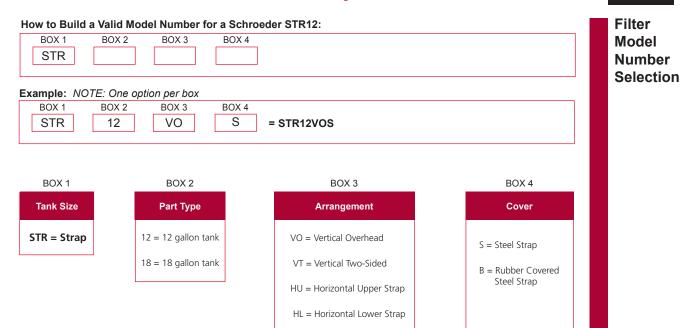
STR18VTS 32.2" (818 mm)

Rubber Coated Steel Straps STR18VTB 32.2" (818 mm)



STR18HLB 53.1" (1348 mm)

TNK



For TNK25 strap mounting options please consult factory.