

SCHROEDER INDUSTRIES: TNK SERIES COMPLETE PLASTIC TANK SOLUTION

Overview - Hydraulic Tanks

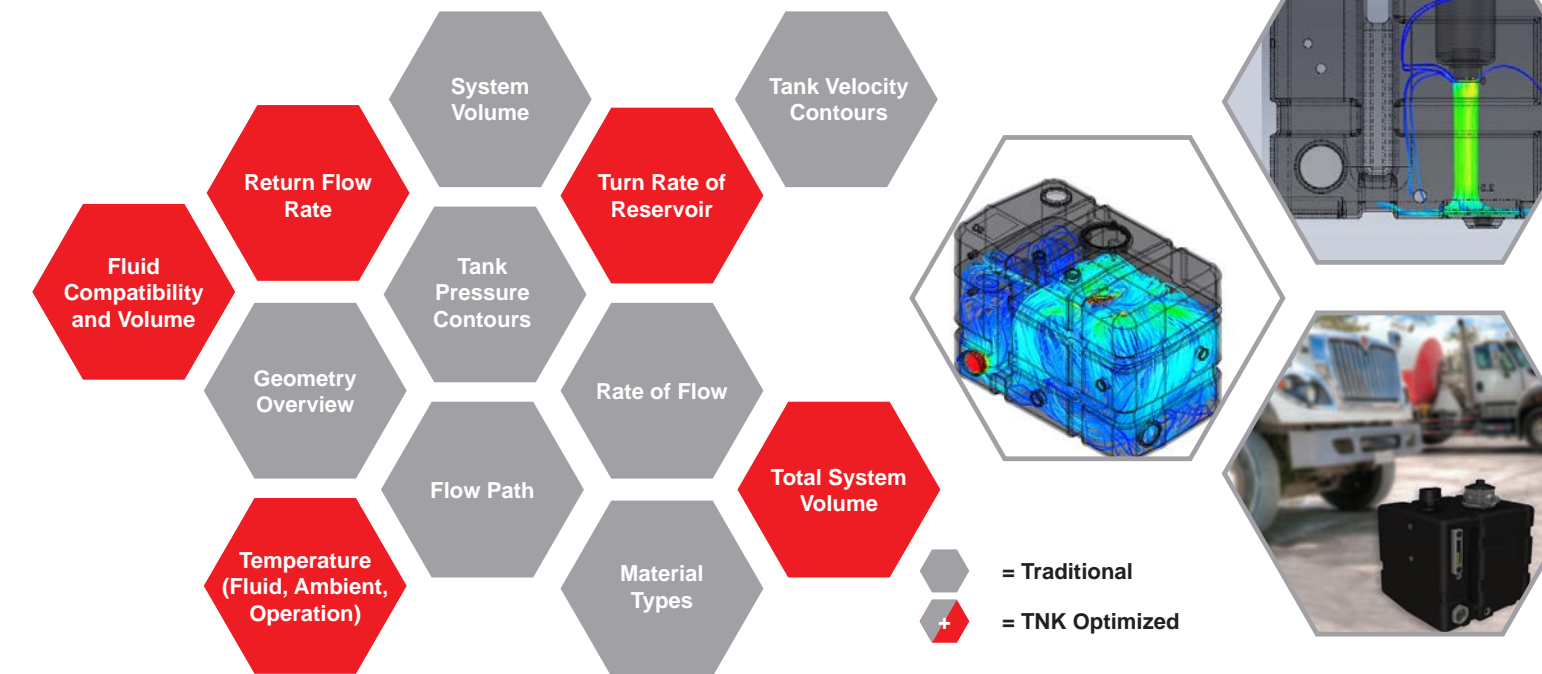
Schroeder Industries believes that a hydraulic tank is much more than a container of fluid. If properly designed, a hydraulic tank can improve the performance of the entire hydraulic system. Functions such as heat dissipation, de-aeration, and settling of contaminants can be improved with a properly designed hydraulic tank.

Schroeder Industries inspects and ensures that every TNK Series Complete Plastic Tank Solution performs at the highest level possible!

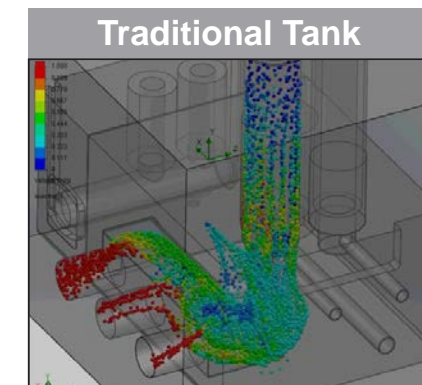
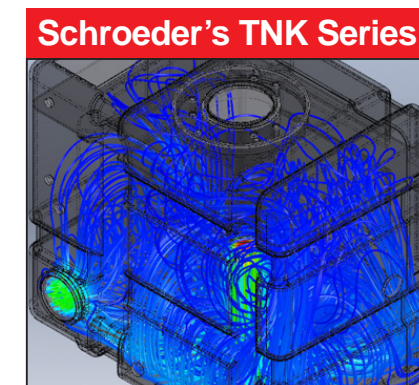
Our TNK Solutions endure the most stringent of test conditions and hold an added bonus against the competition - they come in both HDPE and Polypropylene options. This has added benefits when compared to traditional metal tanks:



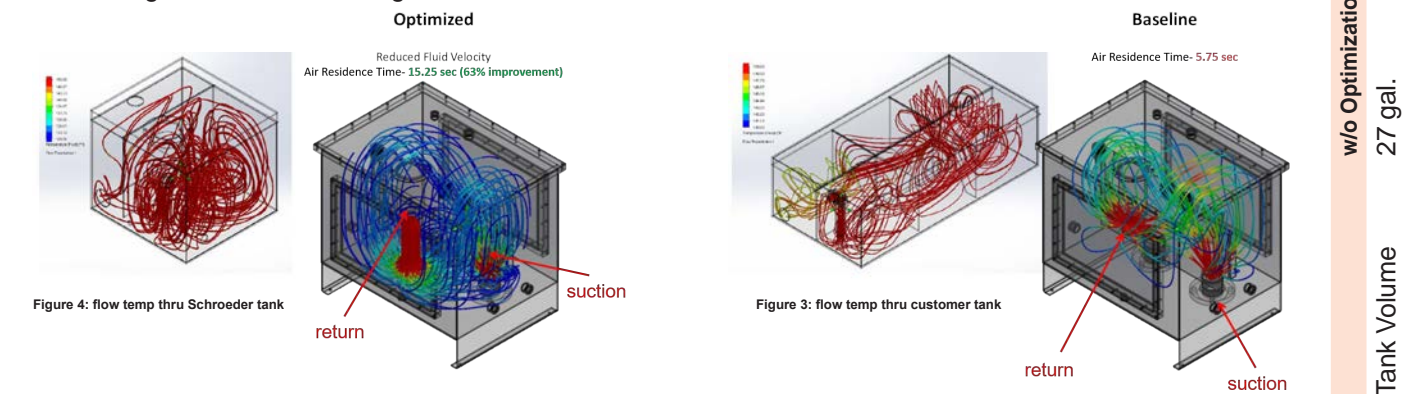
Traditional Tank vs. TNK Optimized Design Considerations



Study of Flow Trajectories and Residence Time Using Single-Phase CFD



A customer came to Schroeder seeking additional room in their hydraulics' equipment space. The customer was using a system reservoir sized at 27 gallons (Figure 3). Upon further evaluation and from the power of a single-phase CFD, we were able to optimize their system to an 18 gallon TNK18 (Figure 4) without losing productivity and adding a 34% oil cost savings.



Hydraulic Accessories:



In addition to a high-performing hydraulic tank solution, Schroeder also includes hydraulic accessories with each TNK Complete Plastic Tank, including:

- ◆ Tank Straps
- ◆ Oil Sight Glasses
- ◆ Indicators
- ◆ Test Points\
- ◆ Test Equipment
- ◆ Particulate & Desiccant Filter Breathers

The TNK Series is part of Schroeder Industries' Energy Sustainability Initiative, our mission to provide filtration solutions that contribute to a cleaner world and help organizations reach their sustainability goals.



- The light weight of TNKs compared to typical steel tanks increases the energy efficiency of the hydraulic system.
- Made with recyclable High Density Polyethylene (HDPE), considered among the easiest plastic materials to recycle.
- HDPE products require less energy to produce than a comparable product made from steel.

TNK SERIES COMPLETE PLASTIC TANK SOLUTION

Order Information

Schroeder's TNK Series Complete Plastic Tank Solutions come in four (4) performance optimized sizes, all with added options such as tooling, SAE fittings and connections, and top-of-the-line breather, gauges, and return-line filter products. At Schroeder, our TNK products come readily available with an 8-week lead time, no lengthy development and tooling period, and in a single purchase order:

TNK7

Complete hydraulic tank solution (7 gal.) with included accessories.

Options: Filter, breather, sight glass, strainer, & band strap options

Desc.	Unit
Vol.	7 gal.
Filter	MTB
Flow	35 gpm
Weight	16 lbs.

Element Clearance: 5" (127 mm)

TNK12

Complete hydraulic tank solution (12 gal.) with included accessories.

Options: Filter, breather, sight glass, strainer, & band strap options

Desc.	Unit
Vol.	12 gal.
Filter	ZT/GZT
Flow	40 gpm
Weight	21 lbs.

Element Clearance: 10" (254 mm)

TNK18

Complete hydraulic tank solution (18 gal.) with included accessories.

Options: Filter, breather, sight glass, strainer, & band strap options

Desc.	Unit
Vol.	18 gal.
Filter	ZT/GZT
Flow	40 gpm
Weight	33 lbs.

Element Clearance: 10" (254 mm)

TNK25

Complete hydraulic tank solution (25 gal.) with included accessories.

Options: Filter, breather, sight glass, strainer, & band strap options

Desc.	Unit
Vol.	25 gal.
Filter	RT/GRT
Flow	75 gpm
Weight	45 lbs.

Element Clearance: 12" (305 mm)

Metric dimensions in inches

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Markets Served



TNK SERIES

TNK with TRT next generation filter technology



- Patented deaeration windows around the housing offer superior air bubble coalescence in a 360 degree discharge.
- Naturally helps with liquid and particulate filtration.
- Ability to reduce footprint of fluid storage in innovative design of the reservoirs.
- Quality Protected Element Design
- Complete hydraulic reservoir solution with accessories like gauges, in-tank filters, and air breathers already installed.
- Tank is certified clean, eliminating time-consuming flushing processes and testing.

www.schroederindustries.com

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