

Tank-Mounted Filter Kit

LTK



Features and Benefits

- Special tank-mounted filter kit
- Includes: cap assembly, weld ring assembly, element and bushing
- Available with standard 18L sized element
- Bypass valve in cap assembly

150 gpm
570 L/min
100 psi
7 bar

Model No. of filter in photograph is LTK-18LZ3.



**MOBILE
VEHICLES**

Applications

- IRF
- TF1
- KF3
- KL3
- LF1-2"
- MLF1
- RLD
- GRTB
- MTA
- MTB
- ZT
- KFT
- RT
- RTI
- LRT
- ART
- BFT
- QT
- KTK
- LTK**
- MRT

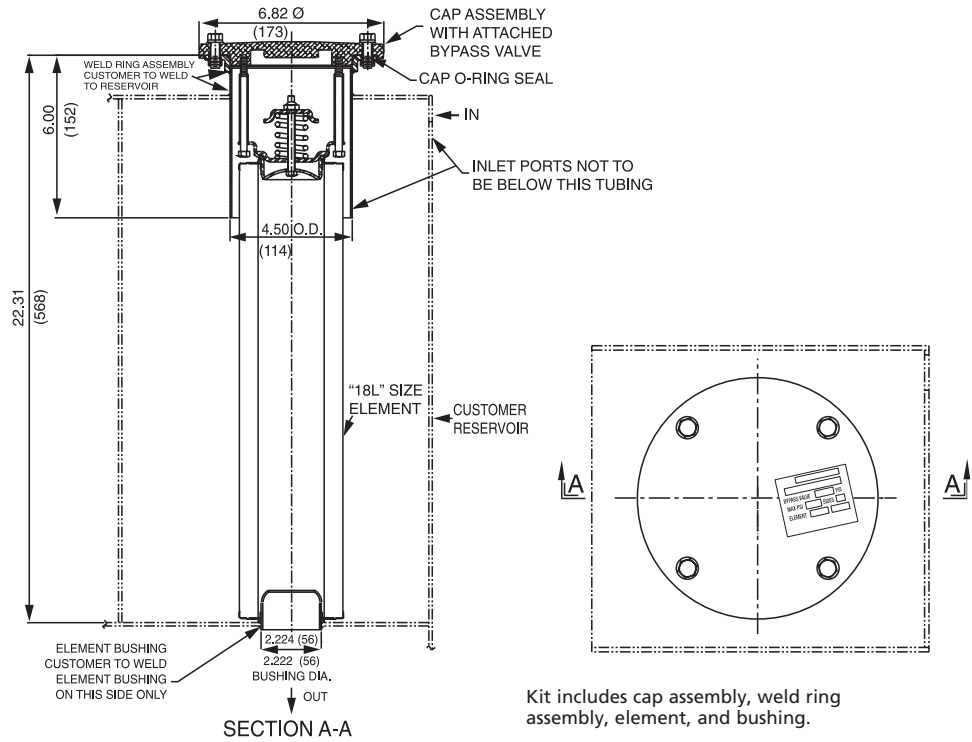
Flow Rating:	Up to 150 gpm (570 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	100 psi (7 bar) exclusive of tank design
Min. Yield Pressure:	Contact factory
Rated Fatigue Pressure:	Contact factory
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 25 psi (1.7 bar) Full Flow: 47 psi (3.2 bar)
Porting Cap:	Die Cast Aluminum
Weld Ring:	Steel
Element Change Clearance:	17.0" (435 mm)

Filter Housing Specifications

Accessories for Tank-Mounted Filters

- PAF1
- MAF1
- MF2

Tank-Mounted Filter Kit



Metric dimensions in ().

Element Performance Information

Element	Filtration Ratio Per ISO 4572/NFPA T3.10.8.8 Using automated particle counter (APC) calibrated per ISO 4402			Filtration Ratio wrt ISO 16889 Using APC calibrated per ISO 11171	
	$\beta_x \geq 75$	$\beta_x \geq 100$	$\beta_x \geq 200$	$\beta_x(c) \geq 200$	$\beta_x(c) \geq 1000$
18L3	6.8	7.5	10.0	N/A	N/A
18L10	15.5	16.2	18.0	N/A	N/A
18LZ1	<1.0	<1.0	<1.0	<4.0	4.2
18LZ3	<1.0	<1.0	<2.0	<4.0	4.8
18LZ5	2.5	3.0	4.0	4.8	6.3
18LZ10	7.4	8.2	10.0	8.0	10.0
18LZ25	18.0	20.0	22.5	19.0	24.0

Dirt Holding Capacity

Element	DHC (gm)
18L3	110
18L10	88
18LZ1	249
18LZ3	255
18LZ5	191
18LZ10	240
18LZ25	217

Element Collapse Rating: 150 psid (10 bar)
 Flow Direction: Outside In
 Element Nominal Dimensions: 4.0" (100 mm) O.D. x 18.5" (470 mm) long

Tank-Mounted Filter Kit



Type Fluid	Appropriate Schroeder Media
Petroleum Based Fluids	All E media (cellulose) and Z-Media® (synthetic)
High Water Content	All Z-Media® (synthetic)
Invert Emulsions	10 and 25 µ Z-Media® (synthetic)
Water Glycols	3, 5, 10 and 25 µ Z-Media® (synthetic)
Phosphate Esters	All Z-Media® (synthetic) with H (EPR) seal designation and 3 and 10 µ E media (cellulose) with H (EPR) seal designation
Skydrol®	3, 5, 10 and 25 µ Z-Media® (synthetic) with H.5 seal designation (EPR seals and stainless steel wire mesh in element, and light oil coating on housing exterior)

Fluid Compatibility

Skydrol® is a registered trademark of Solutia Inc.

IRF

TF1

KF3

KL3

LF1-2"

MLF1

RLD

GRTB

MTA

MTB

ZT

KFT

RT

RTI

LRT

ART

BFT

QT

KTK

LTK

MRT

Accessories for Tank-Mounted Filters

PAF1

MAF1

MF2

$\Delta P_{\text{element}}$

$$\Delta P_{\text{element}} = \text{flow} \times \text{element } \Delta P \text{ factor} \times \text{viscosity factor}$$

El. ΔP factors @ 150 SUS (32 cSt):

	18L
18LZ1	.10
18LZ3	.05
18LZ5	.04
18LZ10	.03
18LZ25	.02

If working in units of bars & L/min, divide above factor by 54.9.

Viscosity factor: Divide viscosity by 150 SUS (32 cSt).

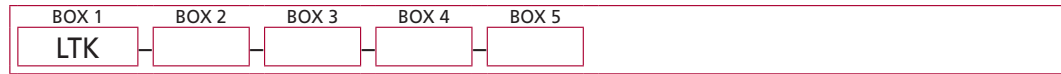
Pressure Drop Information

Based on Flow Rate and Viscosity

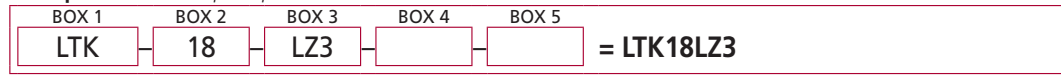
Notes

Filter Model Number Selection

How to Build a Valid Model Number for a Schroeder LTK:



Example: NOTE: One option per box



BOX 1	BOX 2	BOX 3	BOX 4
Filter Series	Length of Element (in)	Element Size and Media	Seal Material
LTK	18	L3 = L size 3 μ E media (cellulose) L10 = L size 10 μ E media (cellulose) L25 = L size 25 μ E media (cellulose) LZ1 = L size 1 μ Excellement® Z-Media® (synthetic) LZ3 = L size 3 μ Excellement® Z-Media® (synthetic) LZ5 = L size 5 μ Excellement® Z-Media® (synthetic) LZ10 = L size 10 μ Excellement® Z-Media® (synthetic) LZ25 = L size 25 μ Excellement® Z-Media® (synthetic)	Omit = Buna N H = EPR W = Buna N H.5 = Skydrol® Compatibility

BOX 5	
Dirt Alarm® Options	
	Omit = None
Visual	Y2C = Bottom-mounted gauge in cap

NOTES:

Box 2. Replacement element part numbers are a combination of Boxes 2, 3, and 4.
 Example: 18LZ3H

Box 4. For options H and W, cap is anodized.
 H.5 seal designation includes the following:
 EPR seals, stainless steel wire mesh on elements, and light oil coating on housing exterior.
 Skydrol® is a registered trademark of Solutia Inc.