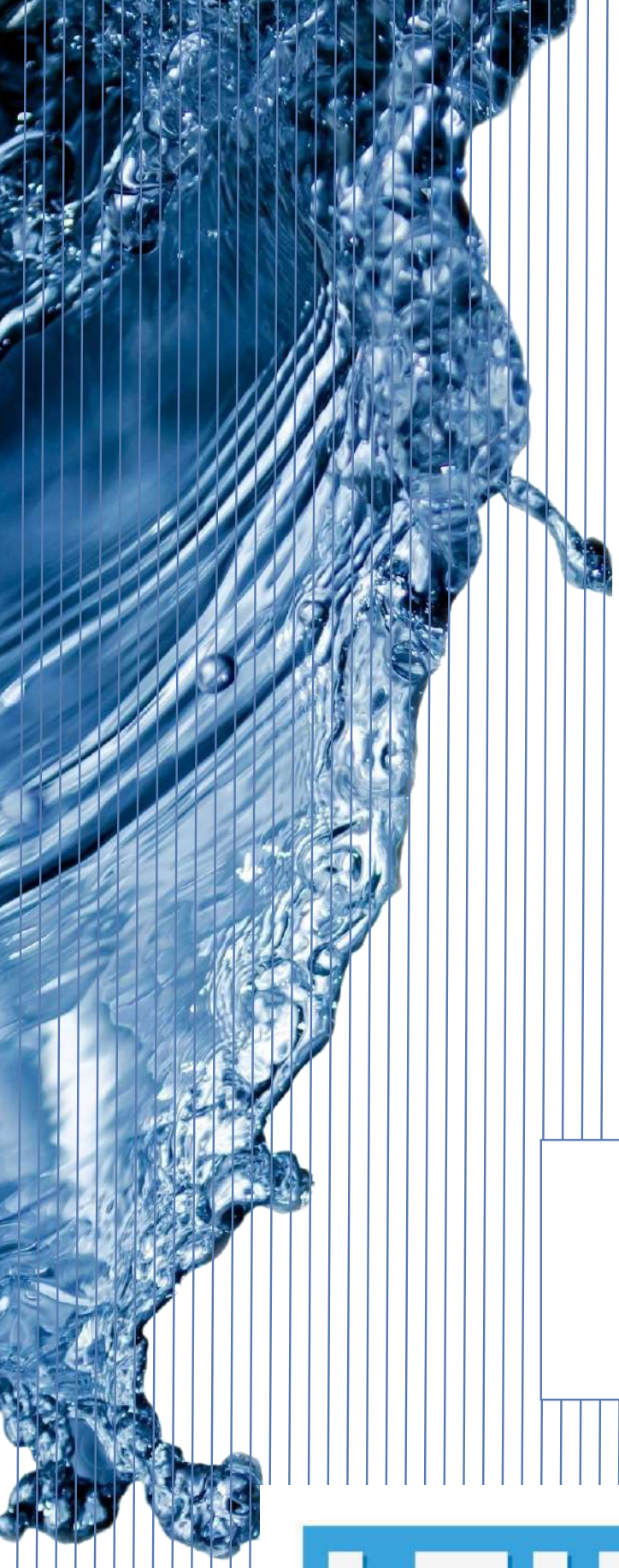


STAUFF
Return-line filters
RTF-20

LTH

HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL

Return-Line Filters ▪ Type RTF-20

D

Product Description

STAUFF RTF-20 Return-Line Filters are designed as tank top filters with a maximum operating pressure of 10 bar / 145 PSI and flow rates up to 115 l/min / 30 US GPM. The filter bowl is designed to return the oil beneath the surface thus preventing entrainment of air. RTF-20 series compact design and integral breather make them ideal for mobile hydraulic applications.

Technical Data

Construction
- Tank Top flange mounting

Materials
- Filter head: Aluminium
- Filter bowl & cap: Polyamide
- Sealings: NBR (Buna-N®)
  FKM (Viton®)
  Other sealing materials on request

Port Connections
- BSP
- NPT
- SAE O-ring thread

Flow Rating
- Up to 115 l/min / 30 US GPM

Operating Pressure
- Max. 10 bar / 145 PSI

Burst Pressure
- Min. 30 bar / 435 PSI

Temperature Range
- -25 °C ...+95 °C / -13 °F ... +203 °F

Integrated Breather
- Filter paper 10 µm
- Filter paper 40 µm

Filter Elements
- Specifications see page 110

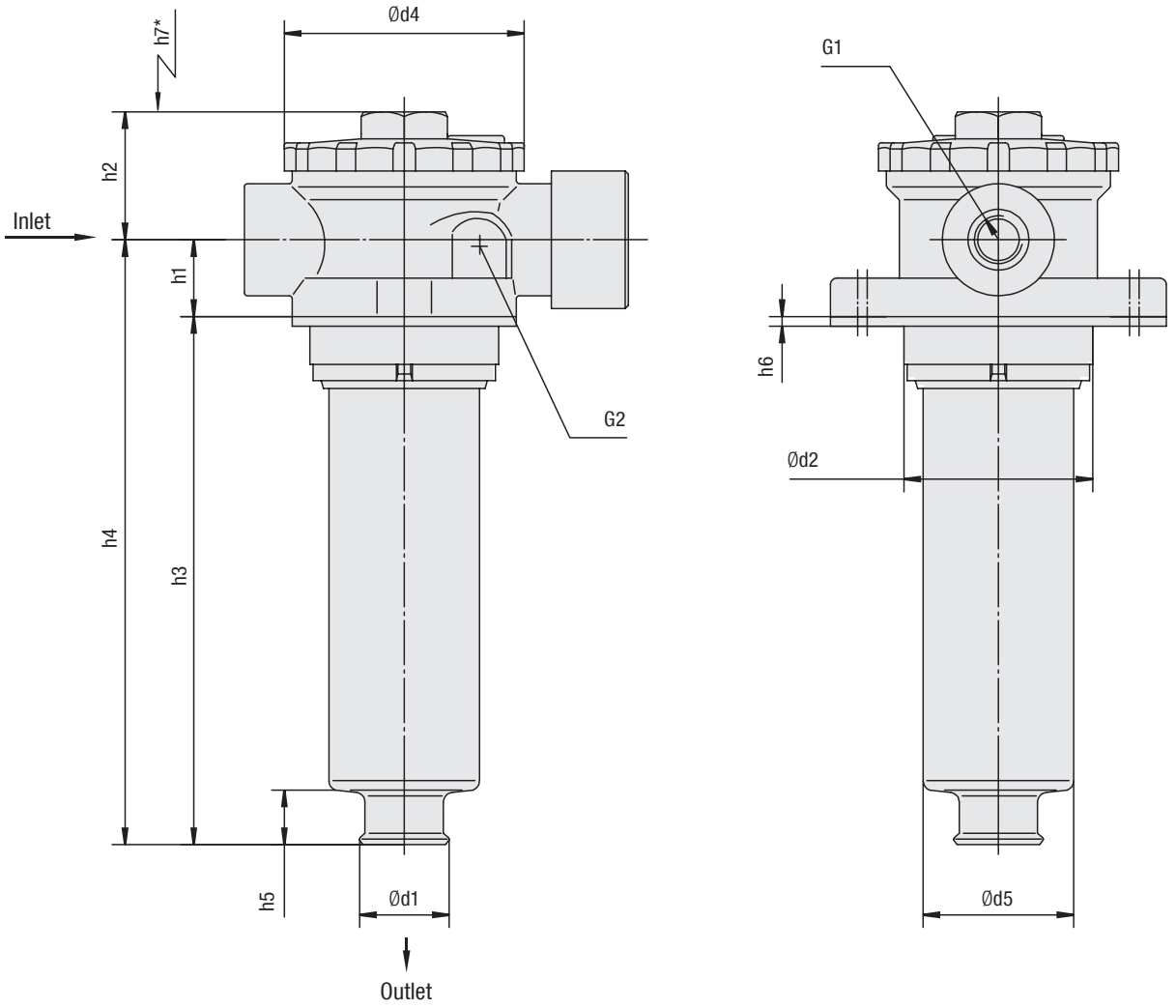
Media Compatibility
- Mineral oils, other fluids on request

Options and Accessories

Valve
- Bypass valve: Opening pressure 1,7 bar / 25 PSI
  (integrated in the filter element) Other settings available on request

Clogging Indicators
- For clogging indicator types please see page 125

Return-Line Filters ▪ Type RTF-20



* recommended space for element change

Return-Line Filters ▪ Type RTF-20

Thread Connection G1	Filter Size RTF	
	020	
BSP	1/2	3/4
NPT	1/2	3/4
SAE Thread	3/4–16	1–1/16

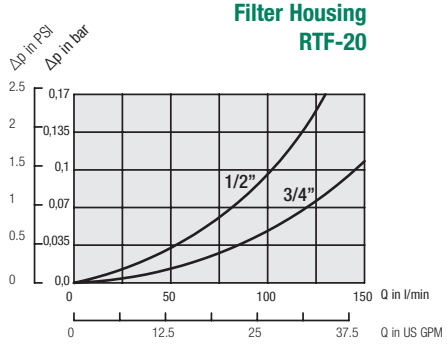
Dimensions (mm/in)	Filter Size RTF
	020
b1	50
	1.97
b2	70
	2.76
b3	82
	3.23
b4	88
	3.46
b5	11
	.43
d1	28
	1.10
d2*	Min. 60 / Max. 63
	Min. 2.36 / Max. 2.48
d3	77
	3.03
d4	75
	2.95
d5	48
	1.89
h1	24
	.94
h2	37,5
	1.48
h3	178
	7.01
h4	202
	7.95
h5	16
	.63
h6	2
	.07
h7	210
	8.27
G2	G1/8 or 1/8 NPT

* recommended diameter for mounting hole

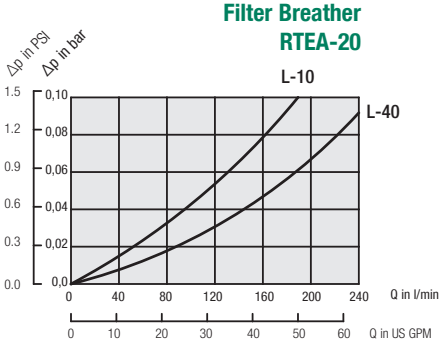
Return-Line Filters ▪ Type RTF Flow Characteristics

The following characteristics are valid for mineral oils with a density of 0,85 kg/dm³ and the kinematic viscosity of 30 mm²/s (30cSt). The characteristics have been determined in accordance to ISO 3968. Multipass filter ratings have been obtained in accordance to ISO 16889. The housing pressure drop is directly proportional to the oil density. Contact STAUFF for details.

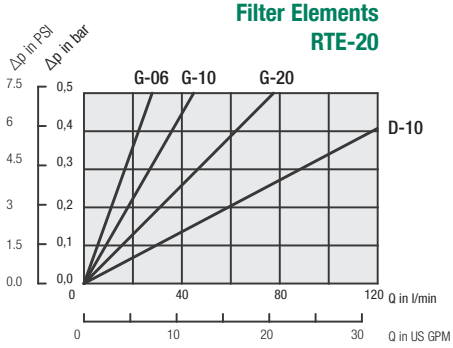
Filter Housing RTF-20



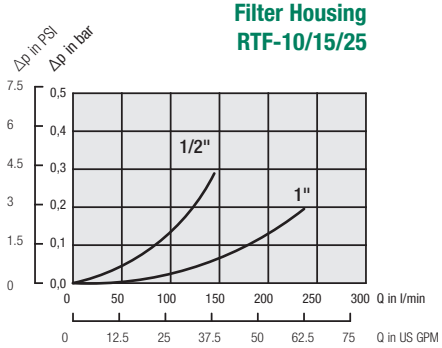
Filter Breather RTEA-20



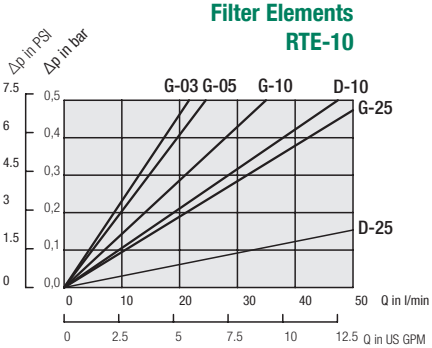
Filter Elements RTE-20



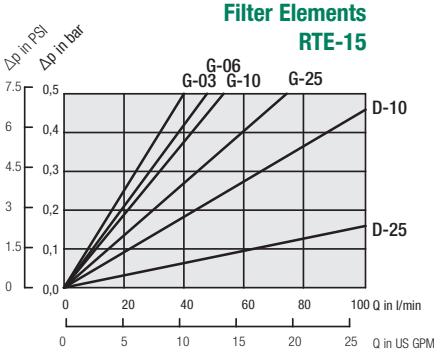
Filter Housing RTF-10/15/25



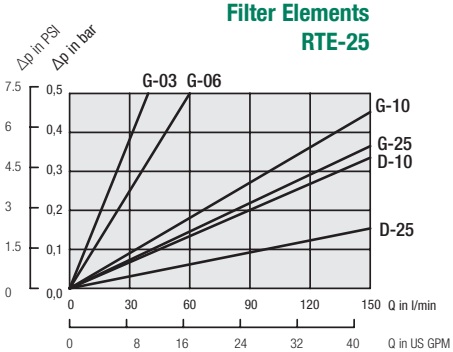
Filter Elements RTE-10



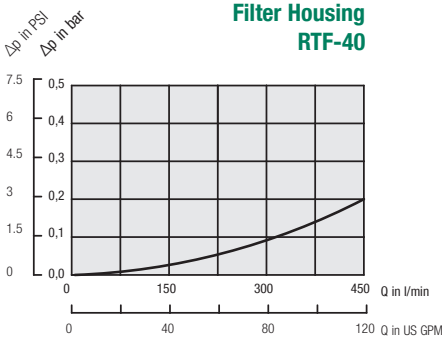
Filter Elements RTE-15



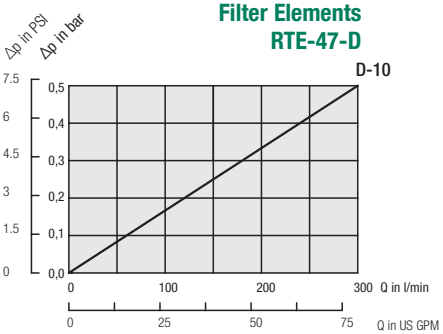
Filter Elements RTE-25



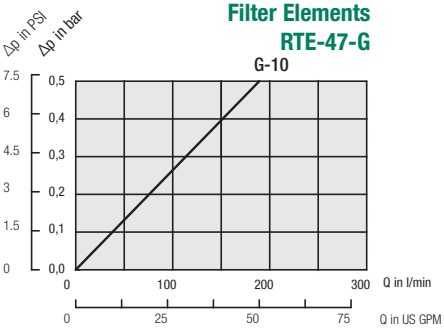
Filter Housing RTF-40



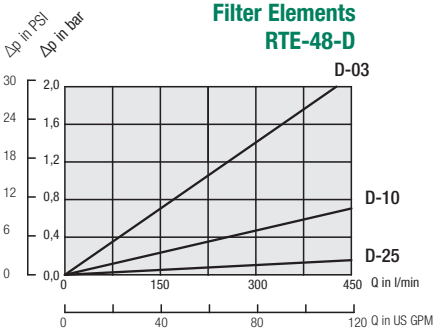
Filter Elements RTE-47-D



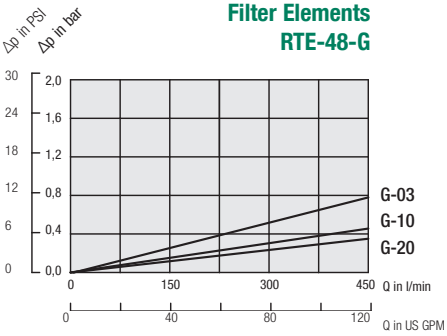
Filter Elements RTE-47-G



Filter Elements RTE-48-D



Filter Elements RTE-48-G



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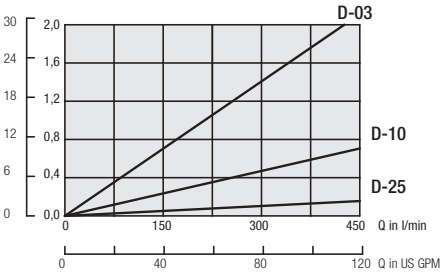
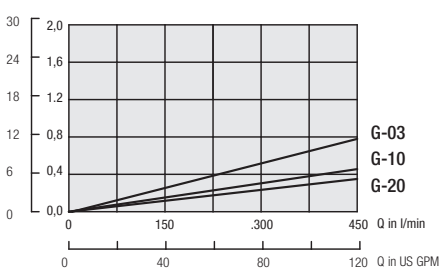
Return-Line Filters ▪ Type RTF Flow Characteristics

The following characteristics are valid for mineral oils with a density of 0,85 kg/dm³ and the kinematic viscosity of 30 mm²/s (30cSt). The characteristics have been determined in accordance to ISO 3968. Multipass filter ratings have been obtained in accordance to ISO 16889. The housing pressure drop is directly proportional to the oil density. Contact STAUFF for details.

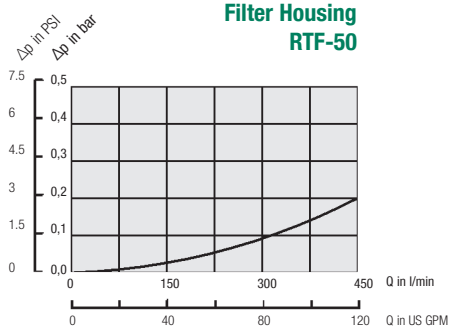
Filter Elements RTE-49-D



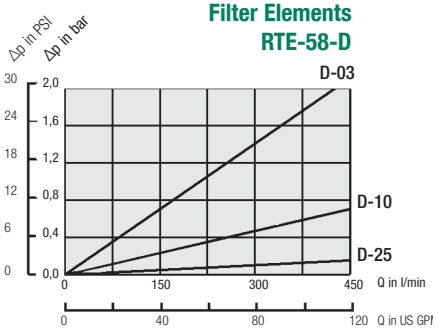
Filter Elements RTE-49-G



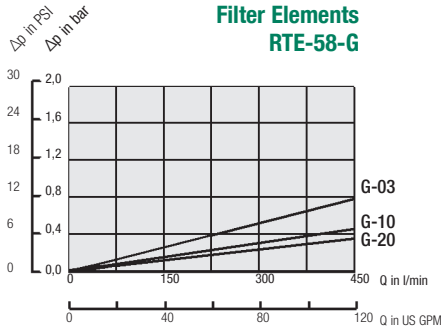
Filter Housing RTF-50



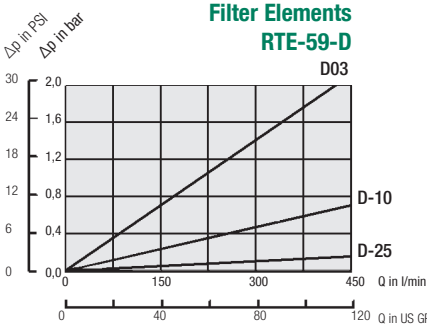
Filter Elements RTE-58-D



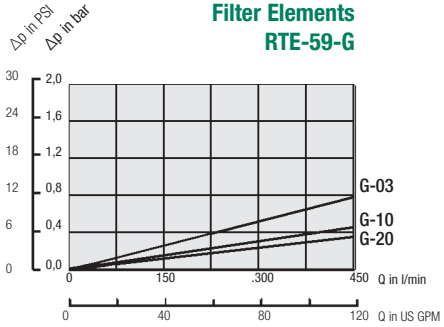
Filter Elements RTE-58-G



Filter Elements RTE-59-D

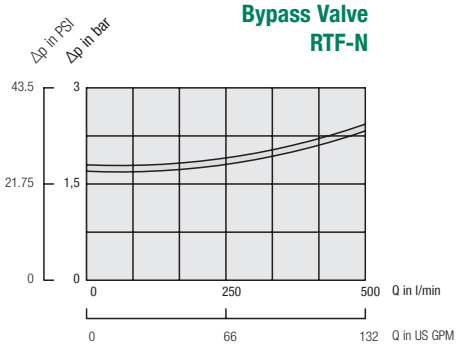


Filter Elements RTE-59-G

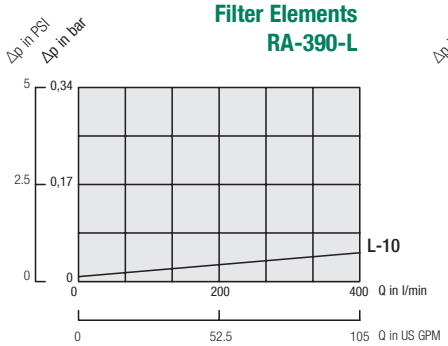


Note: Element pressure drop curves are for "S1" single elements. For "S2" double elements use 50% of the "S1" Value.

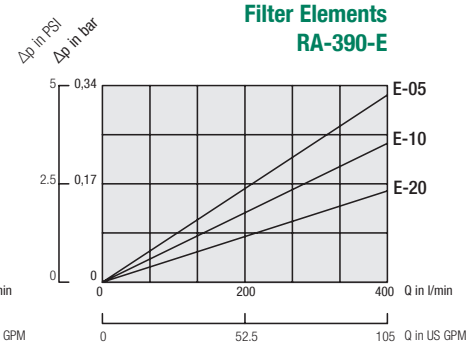
Bypass Valve RTF-N



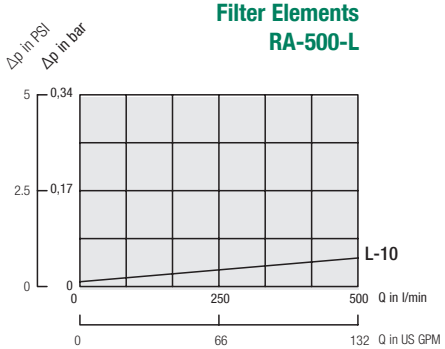
Filter Elements RA-390-L



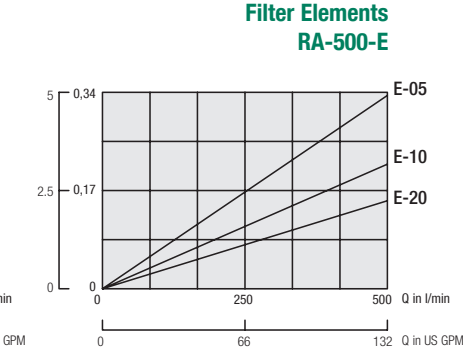
Filter Elements RA-390-E



Filter Elements RA-500-L



Filter Elements RA-500-E



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