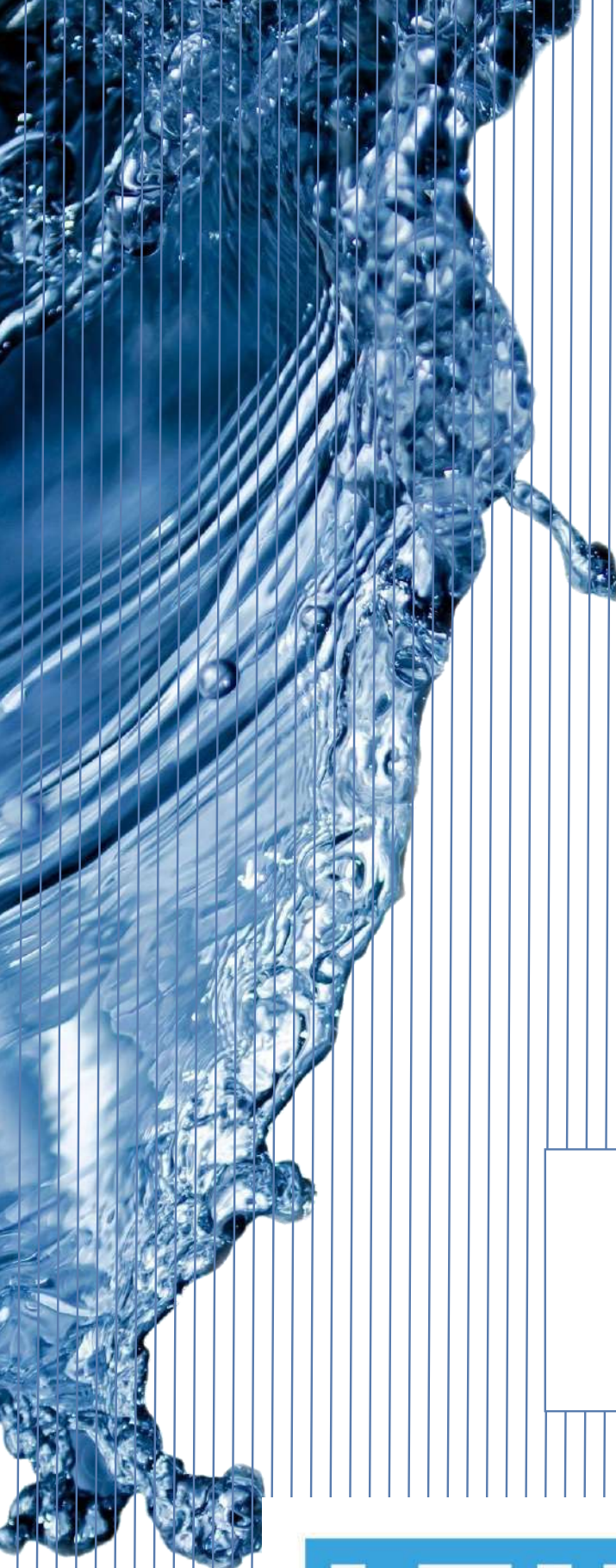




STAUFF
Return-line filters
RTF-40



 HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL



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Return-Line Filters ■ Type RTF-40



D

Product Description

STAUFF RTF-40 Return-Line Filters are designed as tank top filters with a maximum operating pressure of 6,9 bar / 100 PSI. The filter bowl is designed to return the oil beneath the surface thus preventing entrainment of air.

Technical Data

Construction

- Tank Top flange mounting

Materials

- Filter head: Aluminium
- Filter bowl: Bowl length 1: Polyamide
Bowl length 2: Steel
- Sealings: NBR (Buna-N®)
Other sealing materials on request

Port Connections

- BSP
- NPT
- SAE O-ring thread
- SAE flange

Flow Rating

- Up to 378 l/min / 100 US GPM

Operating Pressure

- Max. 6,9 bar / 100 PSI

Temperature Range

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

Filter Elements

- RTE-47 with integrated bypass valve, single stack length
- RTE-48 bypass valve integrated in the filter head, equivalent to the HF-4 elements, single and double stack lengths
- RTE-49 bypass valve integrated in the filter head, single and double stack lengths
- Specifications see page 114

Media Compatibility

- Mineral oils, other fluids on request

Options and Accessories

Valve

- Bypass valve: Opening pressures 1 bar / 14.5 PSI $\pm$ 10 % or 1,7 bar / 25 PSI $\pm$ 10 %
RTF-47: Bypass integrated in the filter element
RTF-48/49: Bypass integrated in the filter head

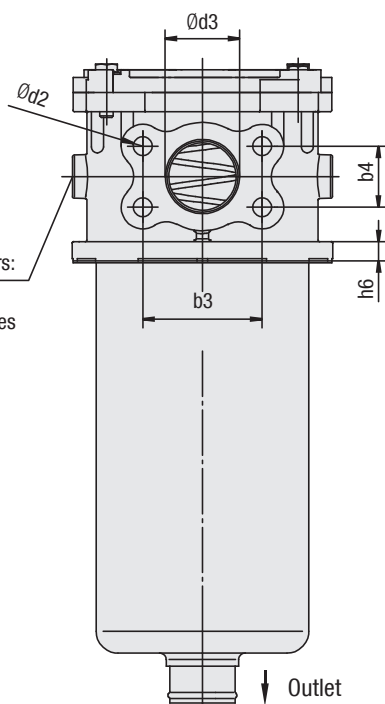
Clogging Indicators

- For clogging indicator types please see page 125

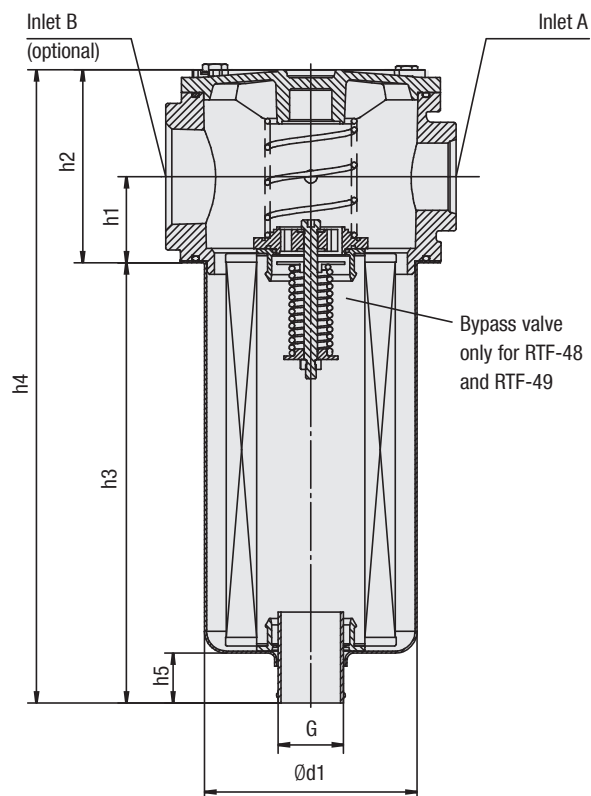
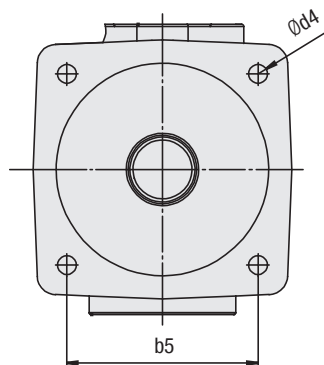


Return-Line Filters ■ Type RTF-40

Port for clogging indicators:
G 1/8 for BSP-types
1/8 NPT for non-BSP-types



Bottom View

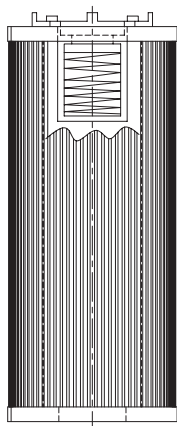


Bypass valve
only for RTF-48
and RTF-49

Filter Elements ■ Types RTE-47 / RTE-48 / RTE-49

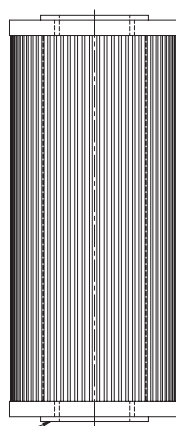
RTE-47

- with integrated bypass valve
- single stack length



RTE-48

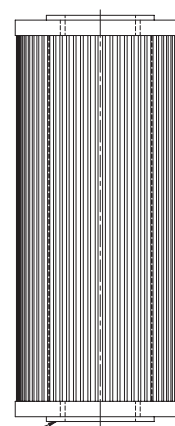
- bypass valve integrated in the filter head
- equivalent to the HF-4 elements
- single and double stack lengths



Seal: NBR (Buna®)

RTE-49

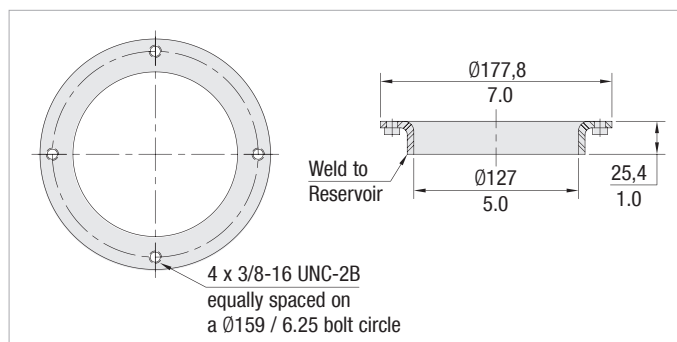
- bypass valve integrated in the filter head
- single and double stack lengths



Seal: NBR (Buna®)



Return-Line Filters ■ Type RTF-40



RTF-40 Series Weld Ring WR-40

The WR-40 weld ring is welded directly to the hydraulic reservoir, eliminating the need for drilling and tapping mounting holes in the reservoir.

Material: Carbon Steel

Thread Connection Combinations	Filter Size RTF			
	4...S1		4...S2	
	Inlet A	Inlet B	Inlet A	Inlet B
BSP	1-1/4 and 1-1/2 SAE Flange	None	1-1/4 and 1-1/2 SAE Flange	None
BSP	1-1/4 and 1-1/2 SAE Flange	1-1/4	1-1/4 and 1-1/2 SAE Flange	1-1/4
NPT	1-1/4 and 1-1/2 SAE Flange	None	1-1/4 and 1-1/2 SAE Flange	None
NPT	1-1/4 and 1-1/2 SAE Flange	1-1/4	1-1/4 and 1-1/2 SAE Flange	1-1/4
NPT	1-1/2	None	1-1/2	None
NPT	1-1/2	1-1/4	1-1/2	1-1/4
NPT	1-1/2	1-1/2	1-1/2	1-1/2
SAE	1-5/8-12	None	1-5/8-12	None
SAE	1-5/8-12	1-5/8-12	1-5/8-12	1-5/8-12
SAE	1-5/8-12	1-7/8-12	1-5/8-12	1-7/8-12
SAE	1-5/8-12	2-1/2-12	1-5/8-12	2-1/2-12
SAE	1-7/8-12	1-7/8-12	1-7/8-12	1-7/8-12
Combination SAE & NPT	1-5/8-12	2	1-5/8-12	2

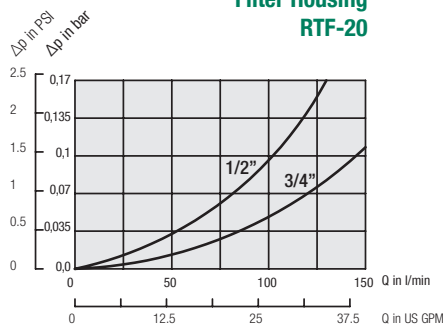
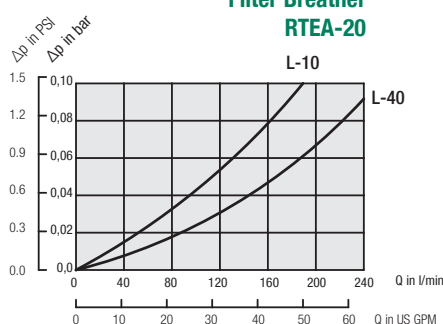
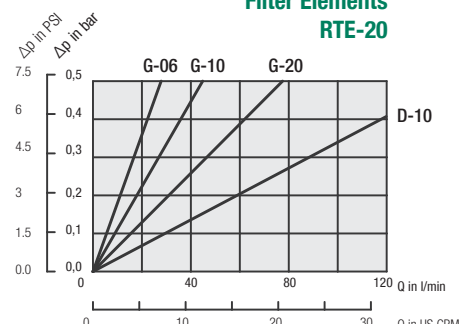
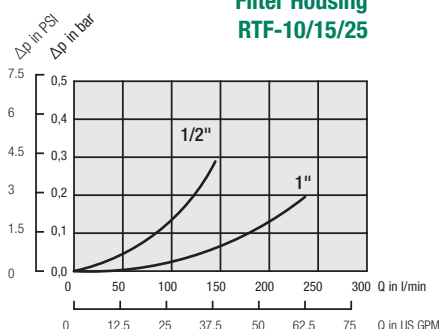
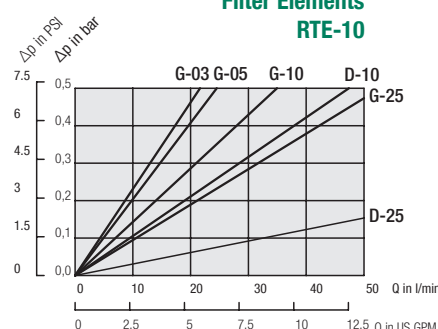
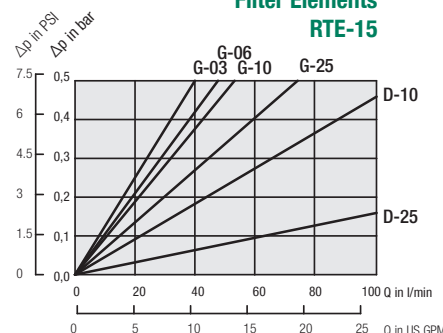
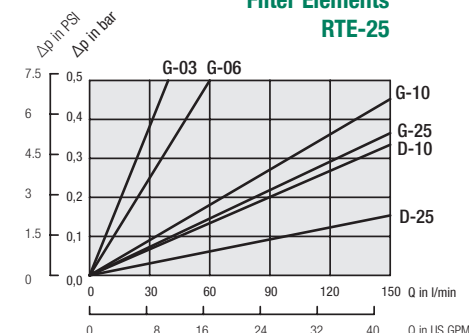
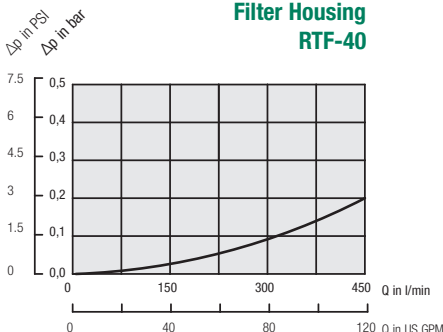
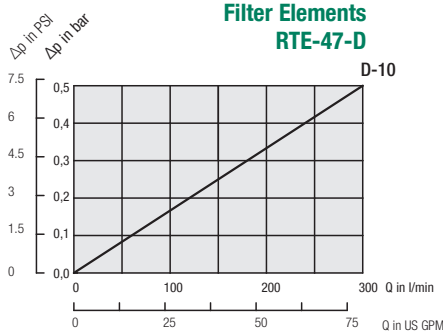
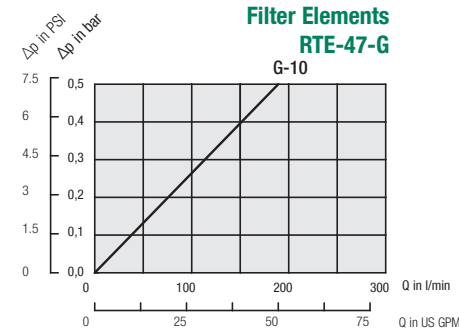
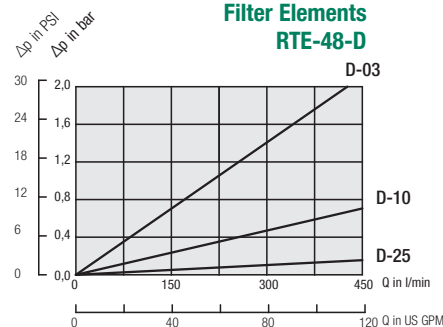
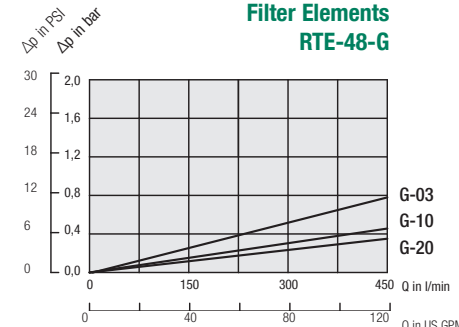
Dimensions (mm/in)	Filter Size RTF	
	4...S1	4...S2
h1	50	50
	1.97	1.97
h2	112	112
	4.41	4.41
h3	263	475
	10.35	18.70
h4	385	587
	15.16	23.11
h5	21	38
	.83	1.50
h6	11	11
	.43	.43
b1	170	170
	6.70	6.70
b2	152	152
	5.98	5.98
b3	69.9	69.9
	2.75	2.75
b4	35.6	35.6
	1.40	1.40
b5	112	112
	4.41	4.41
d1	122	126
	4.80	4.96
d2	M12 or 1/2-13 UN	M12 or 1/2-13 UN
d3	38,1	38,1
	1.50	1.50
d4	11	11
	.43	.43
G	G1-1/2 or 1-1/2 NPT	G1-1/2 or 1-1/2 NPT

Dimensions in mm / in



Return-Line Filters • Type RTF Flow Characteristics

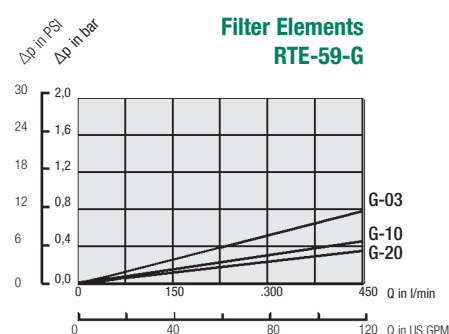
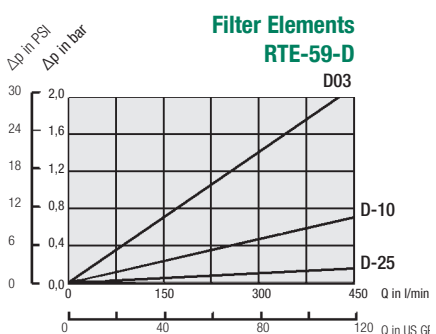
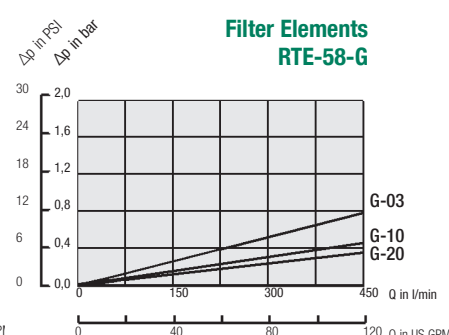
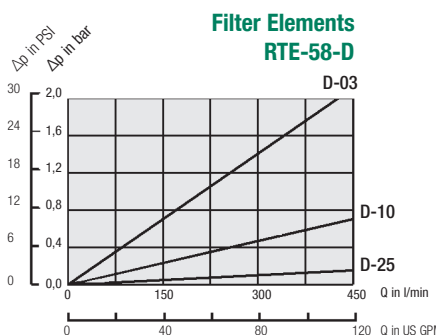
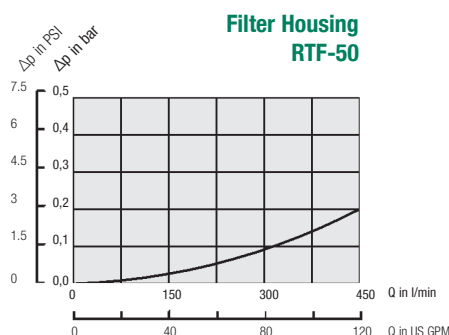
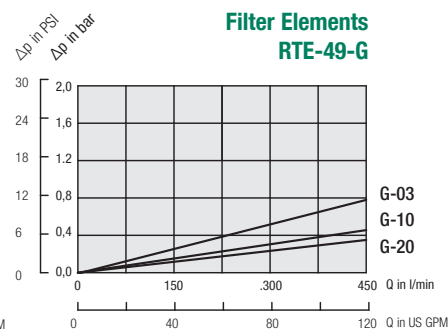
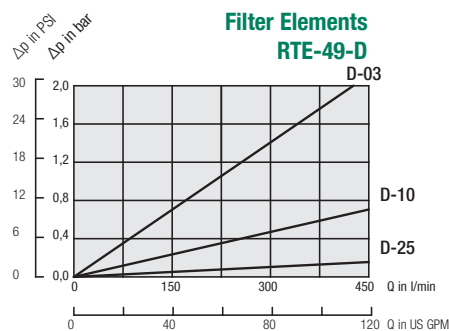
The following characteristics are valid for mineral oils with a density of 0,85 kg/dm³ and the kinematic viscosity of 30 mm²/s (30cSt). The characteristics have been determined in accordance to ISO 3968. Multipass filter ratings have been obtained in accordance to ISO 16889. The housing pressure drop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

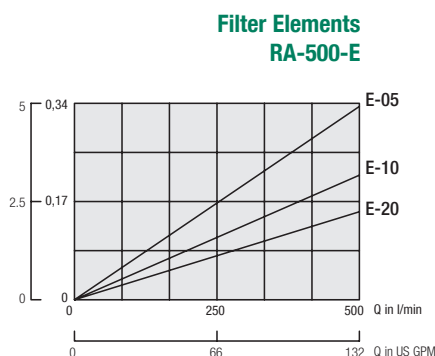
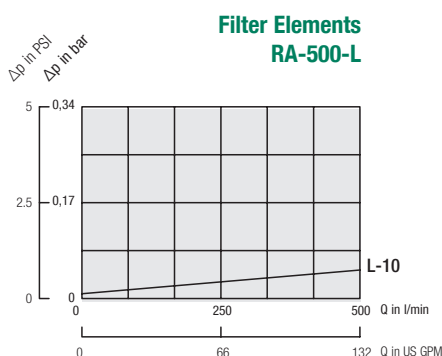
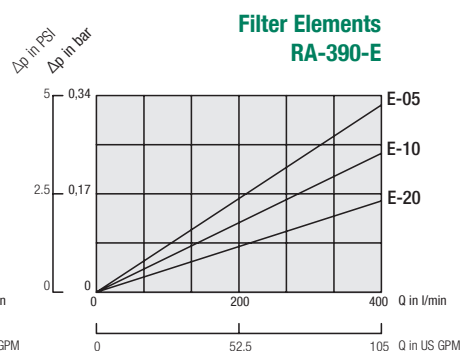
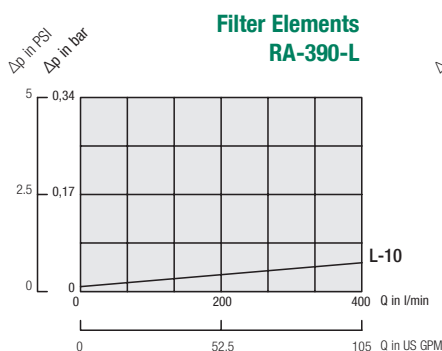
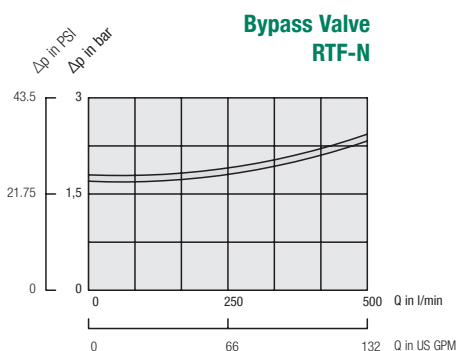
Return-Line Filters ■ Type RTF Flow Characteristics

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D



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



LubeTeam Hydraulic S.r.l.

Administration and Headquarter:

Via Tufara Scautieri, 6

83018 - San Martino Valle Caudina (AV)

Office and Warehouse:

S.S. 7 Appia, Km. 237,00

82011 - Airola BN

ITALY

Tel. +39 0823 950 994

Fax +39 0823 412 546

www.lubeteam.it info@lubeteam.it

Italian VAT / C.F. e P.IVA: 01251720627

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