



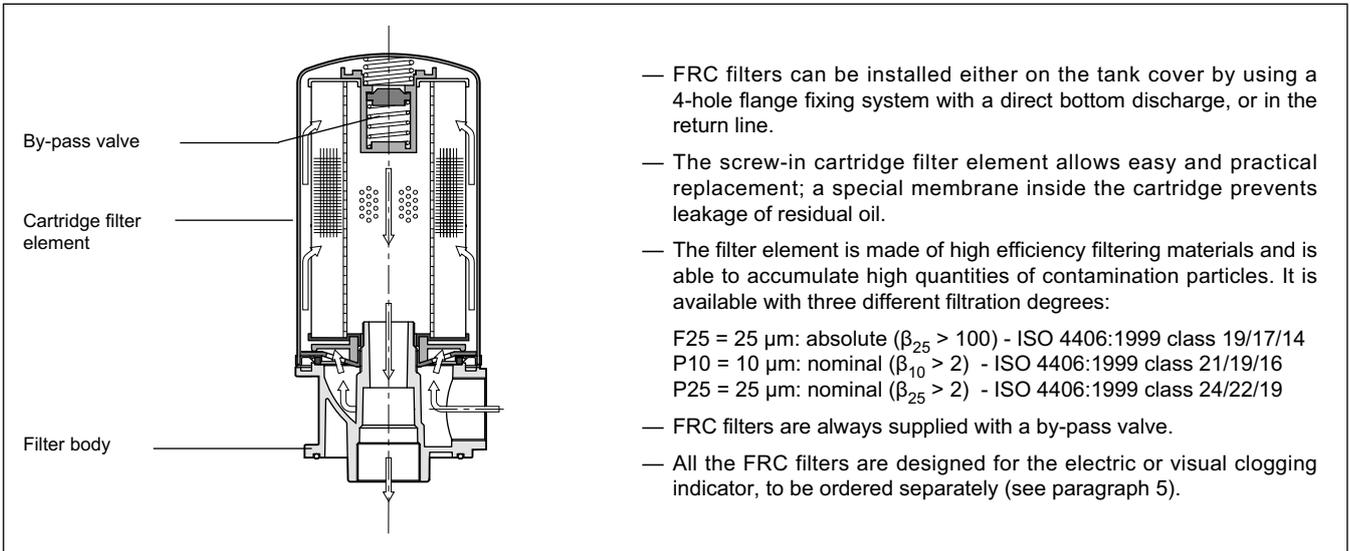
FRC

RETURN FILTER FOR TANK TOP OR IN-LINE MOUNTING

SERIES 10

p max 7 bar
Q max (see table of performances)

OPERATING PRINCIPLE



PERFORMANCES

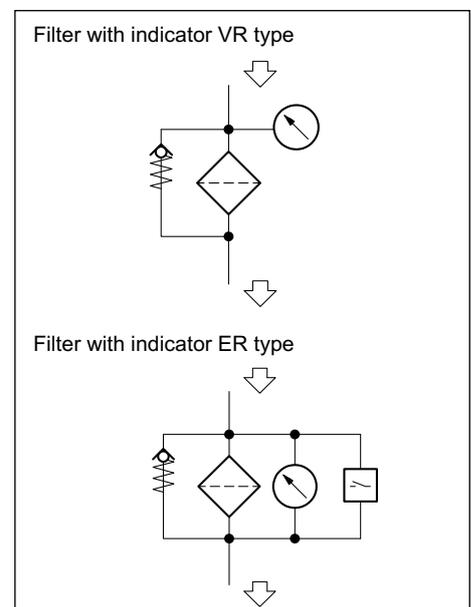
Filter code	BSP port dimensions	Mass [kg]	Rated flow (indicative) [l/min]				
			F25L	P10S	P10L	P25S	P25L
FRC-TB034	3/4"	1.6	65	65	70	70	75
FRC-TB112	1 1/2"	2.2	180	150	200	200	200

NOTE 1: the flow rates stated in the table correspond to a 0.5 bar pressure drop measured with mineral oil of viscosity 36 cSt at 50°C.

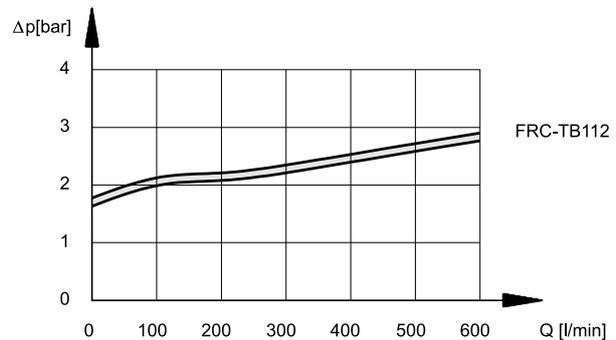
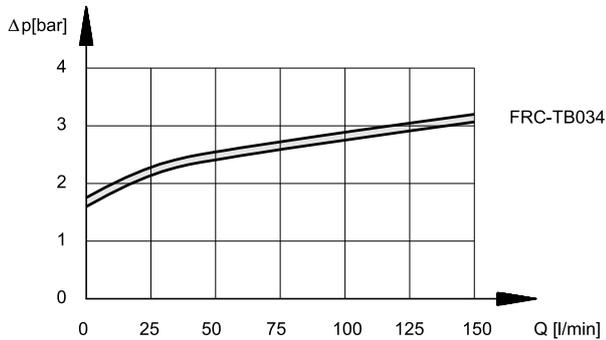
As for a different viscosity range, see **NOTE 2** - par. 2.2.

Maximum pressure	bar	7
Collapsing differential pressure of the filter element	bar	3.0
Differential pressure for the opening of the by-pass valve ($\pm 10\%$)	bar	1,7
Ambient temperature range	°C	-25 / +50
Fluid temperature range	°C	-25 / +110
Fluid viscosity range	cSt	10 + 400

HYDRAULIC SYMBOL



2.3 - Pressure drops through the by-pass valve

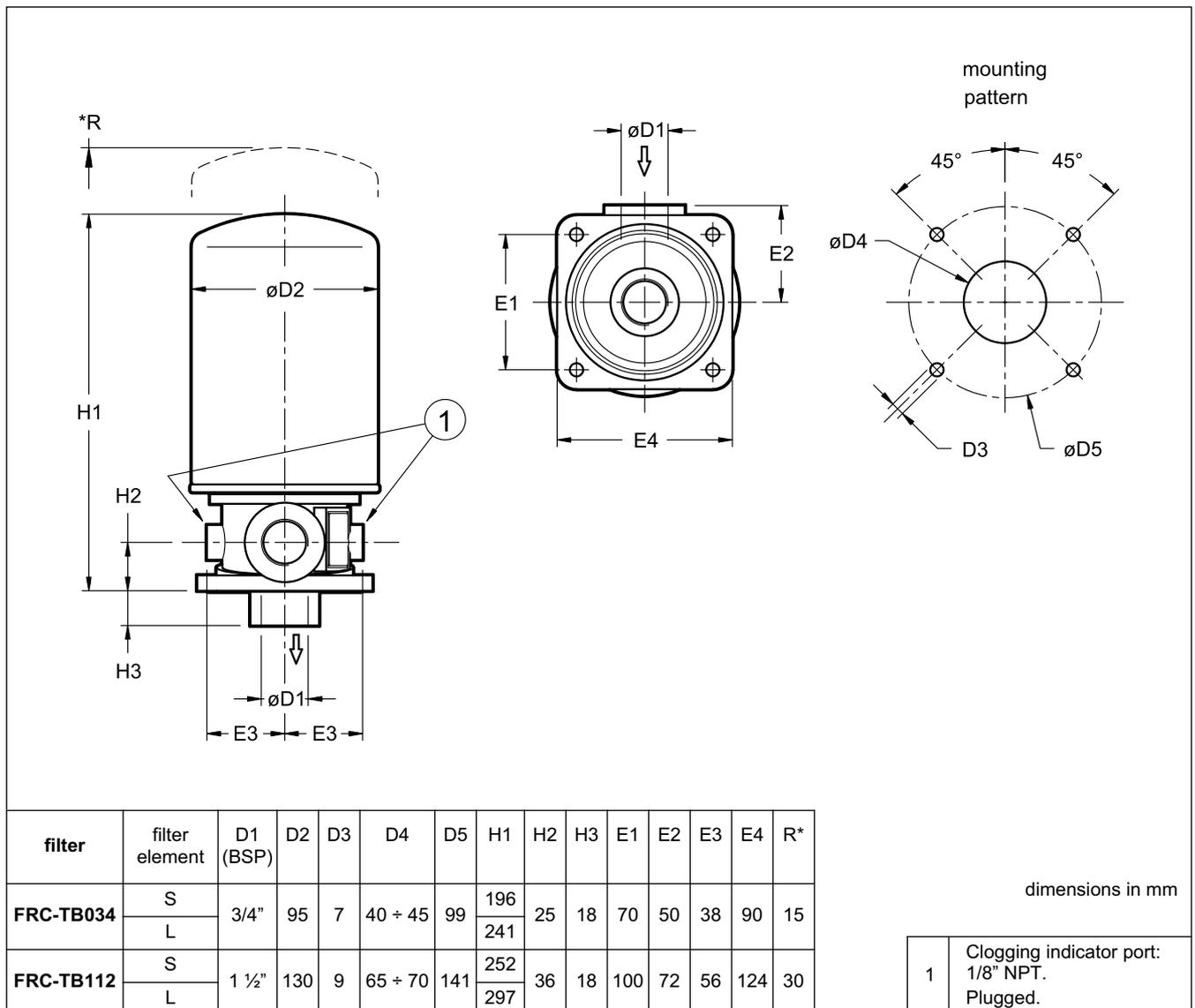


3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals. For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics.

The fluid must be preserved in its physical and chemical characteristics.

4 - OVERALL AND MOUNTING DIMENSIONS

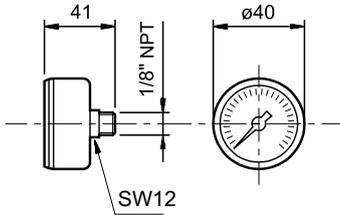


5 - CLOGGING INDICATORS

The filters are designed to incorporate clogging indicators, which have to be ordered separately.

5.1 - Visual indicator for return filters

Identification code: **VR/10**



This type of indicator is a pressure gauge sensitive to the filter inlet pressure.

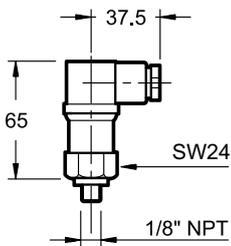
The indicator is preset with a 0 ÷ 6 bar relative scale and with a two-colour reading scale, which provide an indication of the clogging status of the filter element:

GREEN: efficient filter element (0 ÷ 1.7 bar)

RED: the filter element has to be replaced (> 1.7 bar)

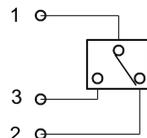
5.2 - Electric indicator for return filters

Identification code: **ER/11**



This type of indicator is an SPDT pressure switch, sensitive to the filter inlet pressure, which intervenes by modifying the state of the electrical contact when the filter element has reached the clogging limit.

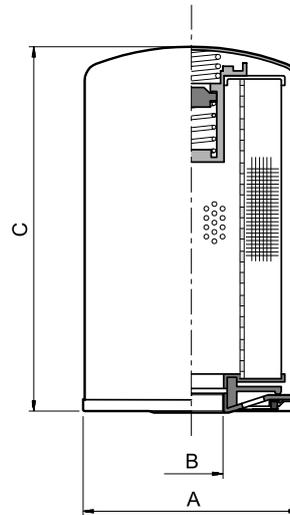
The contact can be wired normally open or closed (see diagram).



TECHNICAL SPECIFICATIONS

		AC	DC
Operating pressure	bar	1,5	
Operating voltage	V	250	110
Max. load on contacts	A	0.5	0.15
Electric connector	EN 175301-803 (ex DIN 43650)		
Class of protection according to EN 60529 (atmospheric agents)	IP65		
ATEX suitability	3 GD EEx e T6		

6 - FILTER ELEMENTS



Filter element code	ØA	ØB	C	Average filtering surface [cm ²]
FRCE-034-P*S	96,5	3/4" BSP	146	3305
FRCE-034-P*L	96,5	3/4" BSP	191	4745
FRCE-034-F25L	96,5	3/4" BSP	191	3630
FRCE-112-P*S	129	1 1/4" BSP	181	5560
FRCE-112-P*L	129	1 1/4" BSP	226	7360
FRCE-112-F25L	129	1 1/4" BSP	226	5890

FILTER ELEMENT IDENTIFICATION CODE

