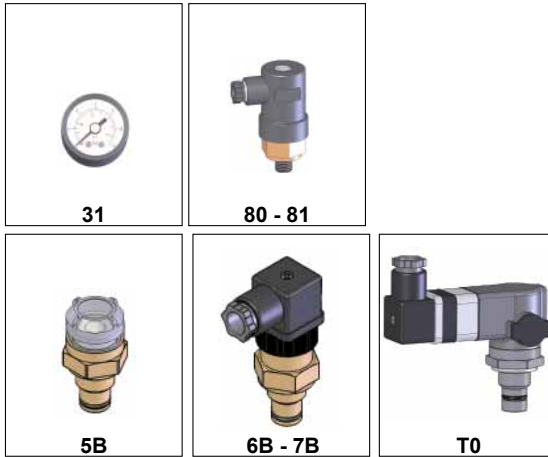


COMPO CARE
Pressure Filters

PH



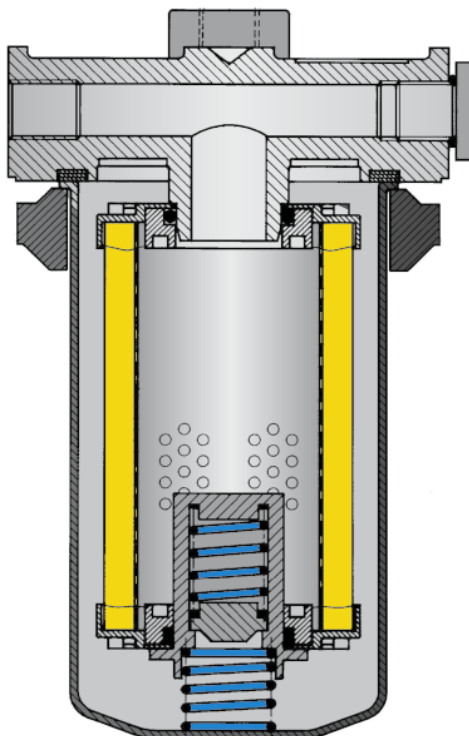
CLOGGING INDICATOR
A visual or visual-electrical differential indicator is available as an option and allows monitoring of the element conditions, giving an exact indication of the right time to replace the element.

FLEXIBILITY OF MOUNTING
A second outlet, usually plugged, provides an optional mounting configuration allowing a common PH series unit to be used on a variety of applications.

NO LEAKS
The end caps with captive O-rings ensure a perfect seal between filter element and housing.

"LONG LIFE" FILTER ELEMENT
The filter elements are designed with a very large filter area giving a highest dirt holding capacity.

STRONG CONSTRUCTION
The materials and the design ensure a very good resistance even at working pressures up to 2000 kPa (20 bar).



MATERIALS

Head:
Aluminium alloy

Bowl:
Steel

Bypass valve:
Polyamide

Seals:
NBR - Nitrile

Indicator housing:
Brass

PRESSURE (ISO 10771-1:2002)

Max working:
2 MPa (20 bar)

Test:
4 MPa (40 bar)

Bursting:
6 MPa (60 bar)

Collapse, differential
for the filter element (ISO 2941): 300 kPa (3 bar)

BYPASS VALVE

Setting: 170 kPa (1,7 bar) +/-10%

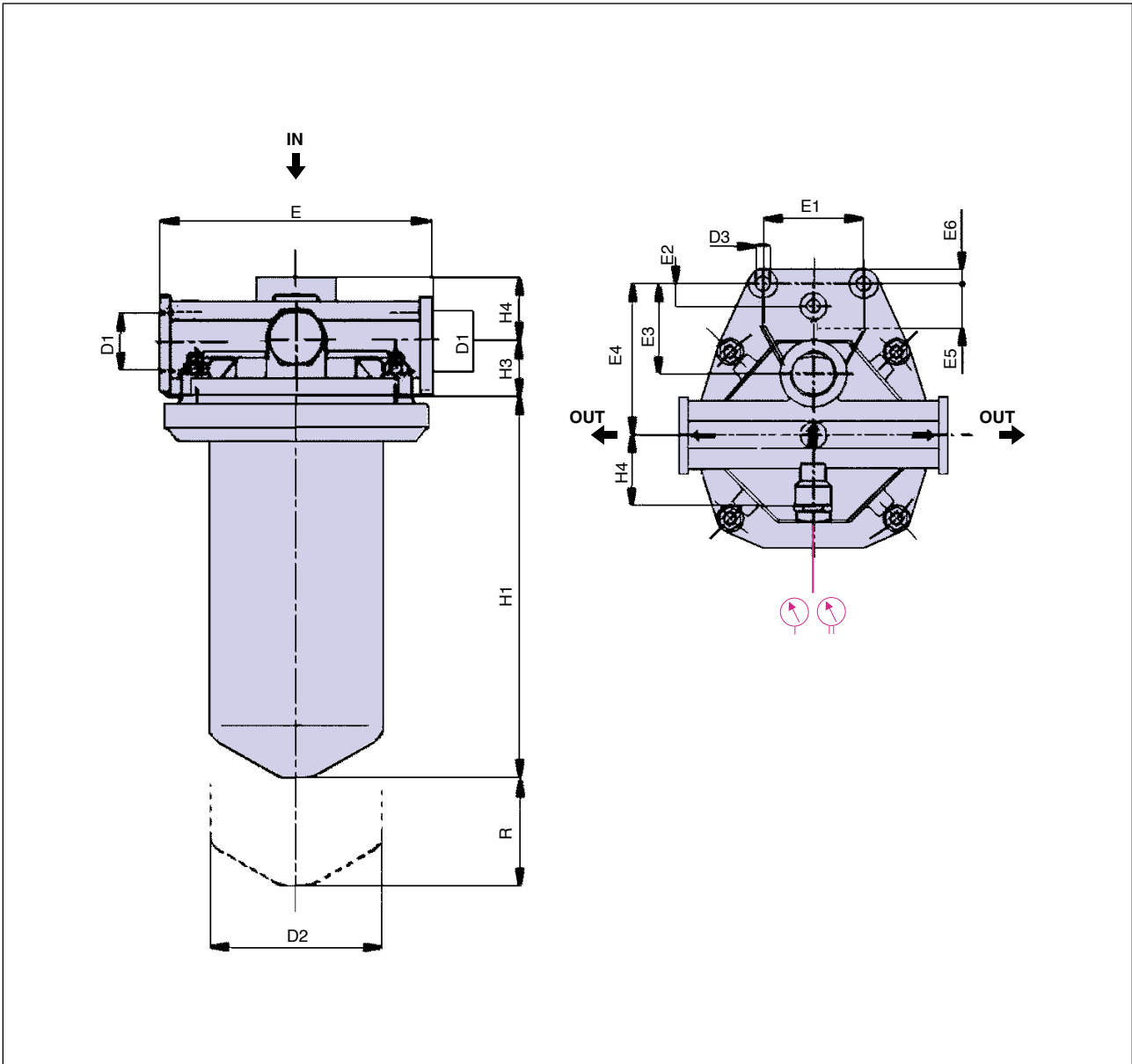
WORKING TEMPERATURE

From -25° to +110° C

COMPATIBILITY (ISO 2943:1999)

Full with fluids: HH-HL-HM-HR-HV-HG
(according to ISO 6743/4)
For fluids different than the above mentioned,
please contact our Sales Department.

INSTALLATION DRAWING



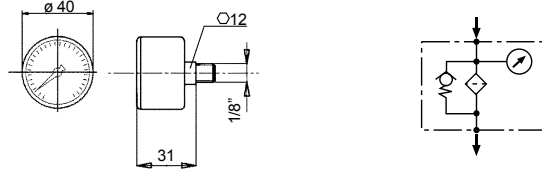
DIMENSIONS AND WEIGHTS

FILTER HOUSING

	D1	D2	D3	E	E1	E2	E3	E4	E5	E6	H1	H2	H3	H4	R	kg
FPH31	3/8" - 1/2"	81	8,5	114	50	-	42	70	15	10	114	44	19	27	20	1,3
FPH40	3/4" - 1"	114	10,5	150	50	-	50	85	12	13	204	58	30	35	20	3,2
FPH50	1 1/4"	156	13	240	90	20	80	135	56	13	180	62	38	45	25	6,1
FPH52	1 1/2"	156	13	240	90	20	80	135	56	13	250	62	38	45	25	6,8

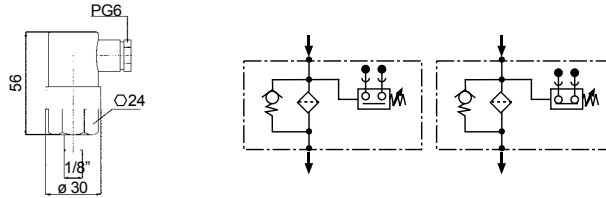
CLOGGING INDICATORS

SERIES 31



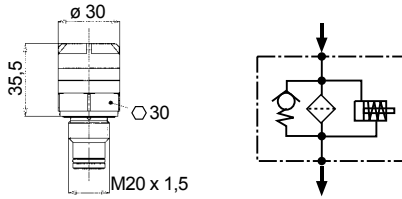
Series 31:
pressure gauge,
scale 0+ 1,2MPa (0+12 bar)

SERIES 80 & 81



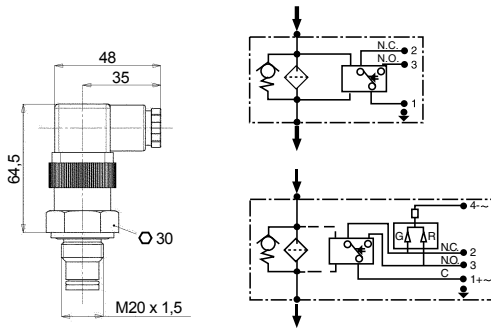
**Series 80 (contacts N.O.)
& Series 81 (contacts N.C.)**
pressure switch,
setting 150 kPa (1,5 bar)
max 220 V ca 50-60 Hz,
max 0,5A resistive, 0,25A inductive
switching power 100VA.

SERIES 5B



Series 5B:
differential visual indicator
130 kPa (1,3 bar)

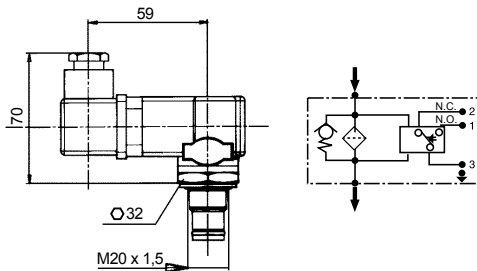
**SERIES 6B
& SERIES 7B**



Series 6B (series 7B with LED - 24V):
differential electrical indicator
130 kPa (1,3 bar)

Connector according to DIN 43650.
Protection IP65 according to DIN 40050.
SPDT: C.A. 125-250 V
> max resistive or inductive load 1A;
C.C. 14-30 V
> max resistive or inductive load 4-3 A resp.

SERIES T0



Series T0:
differential electrical indicator
with thermostat 30°C,
130 kPa (1,3 bar)

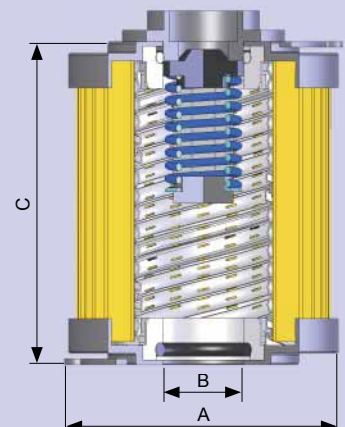
Connector according to DIN 43650.
Protection IP65 according to DIN 40050.
SPDT: C.A. 125-250 V
> max resistive or inductive load 1A;
C.C. 14-30 V
> max resistive or inductive load 4-3 A resp.

SERIES 70 AVAILABLE ONLY ON REQUEST - SEE SUMMING UP OF THE CLOGGING INDICATORS

Differential indicator: recommended tightening torque 90 Nm

FILTER ELEMENT

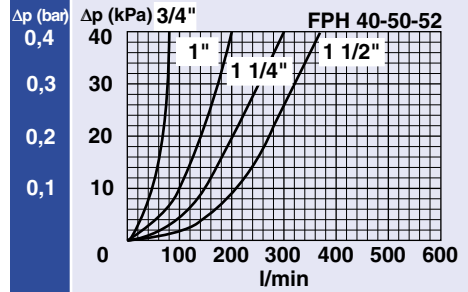
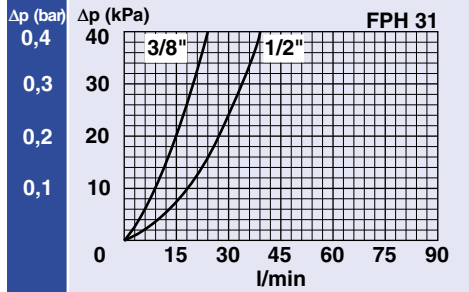
	A	B	C	kg	Area (cm ²)	
					Media F+	Media C+
ERA31	70	28	93	0,20	620	990
ERA40	99	40	178	0,60	3.010	3.390
ERA50	130	63	148	1,00	4.140	4.360
ERA52	130	63	208	1,35	6.190	6.520



PRESSURE DROP CURVES (Δp)

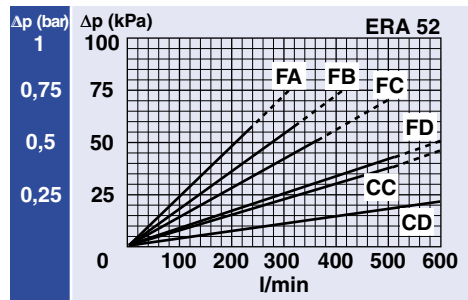
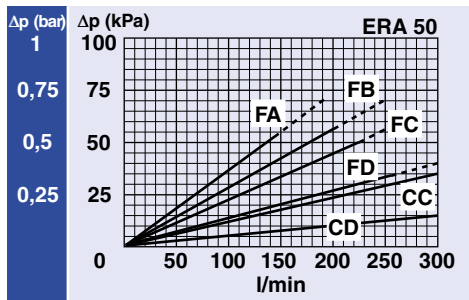
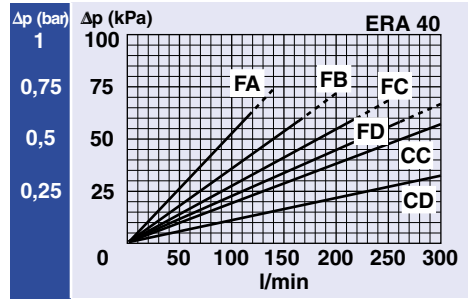
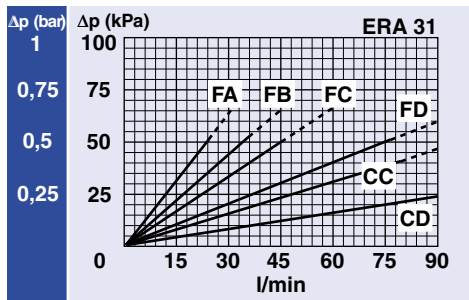
The "Assembly Pressure Drop (Δp)" is obtained by adding the pressure drop values of the Filter Housing and of the Clean Filter Element corresponding to the considered Flow Rate and it must be lower than 50 kPa (0,5 bar).

FILTER HOUSING PRESSURE DROP (mainly depending on the port size)



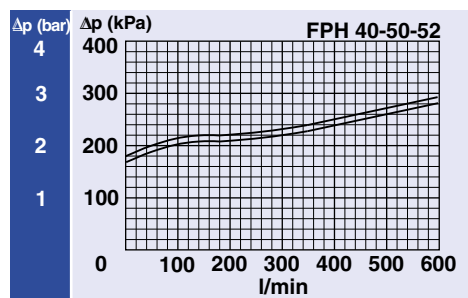
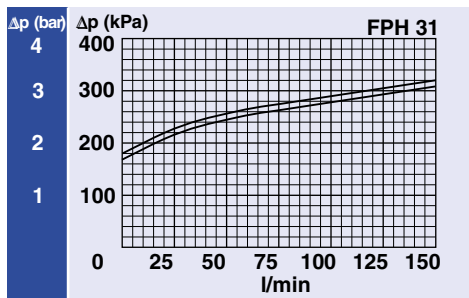
CLEAN FILTER ELEMENT PRESSURE DROP WITH F+ AND C+ MEDIA

(depending both on the internal diameter of the element and on the filter media)



BYPASS VALVE PRESSURE DROP

When selecting the filter size, these curves must be taken into account if it is foreseen that any flow peak is to be absorbed by the bypass valve, it also must be of proper configuration to avoid pressure peaks. The valve pressure drop is directly proportional to fluid specific gravity.



N.B. All the curves have been obtained with mineral oil having a kinematic viscosity 30 cSt and specific gravity 0,9 kg/dm³; for fluids with different features, please consider the factors described in the first part of this catalogue. All the curves are obtained from test done at the UFI HYDRAULIC DIVISION Laboratory, according to the specification ISO 3968:2005. In case of discrepancy, please check the contamination level, viscosity and features of the fluid in use.

