

"COMPO CARE" - Pressure filters

PH



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DIMENSIONS OF THE FILTER ELEMENT

"COMPO CARE" PRESSURE FILTERS

MATERIALS

Head	Aluminium alloy
Bowl	Steel
Bypass valve	Polyammide
Seals	NBR - Nitrile (FKM - Fluoroelastomer on request)
Indicator housing	Brass

COMPATIBILITY

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.

PRESSURE

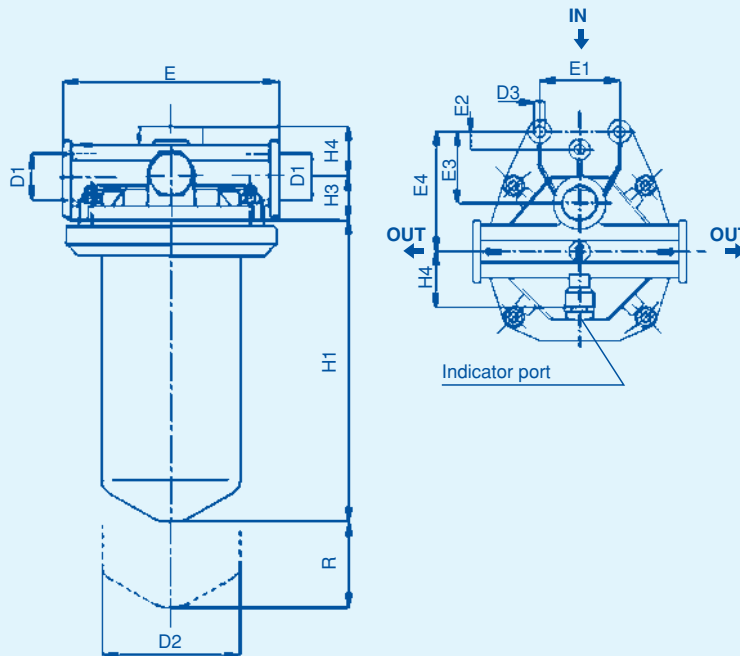
Max working	2 MPa (20 bar)
Test	4 MPa (40 bar)
Bursting	6 MPa (60 bar)
Collapse, differential for the filter element	300 kPa (3 bar)

BYPASS VALVE

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

From -25° to +110° C



	D1	D2	D3	E	E1	E2	E3	E4	H1	H2	H3	H4	R	Weight Kg.
F PH31	3/8" - 1/2"	81	8,5	114	50	=	42	70	114	44	19	27	20	1,3
F PH40	3/4" - 1"	114	10,5	150	50	=	50	85	204	58	30	35	20	3,2
F PH50	1 1/4"	156	13	240	90	20	80	135	180	62	38	45	25	6,1
F PH52	1 1/2"	156	13	240	90	20	80	135	250	62	38	45	25	6,8

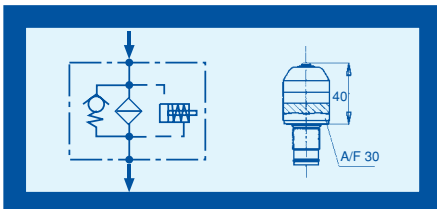
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"COMPO CARE" PRESSURE FILTERS

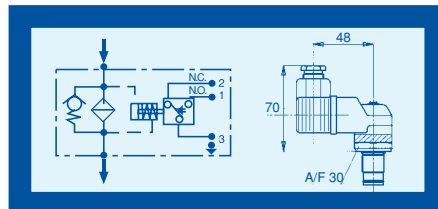
ORDERING AND OPTIONS CHART

F FILTER COMPLETE					ELEMENT			
P	H	FAMILY, NOMINAL SIZE & LENGTH	31	40	50	52	FAMILY SIZE & LENGTH	
		PORT TYPE					R	A
		B = BSP thread	B	B	B	B		
		N = NPT thread	N	N	N	N		
		M = metric thread	M	-	-	-		
		PORT SIZE						
		03 = 3/8"	03	-	-	-		
		04 = 1/2"	04	-	-	-		
		06 = 3/4"	-	06	-	-		
		08 = 1"	-	08	-	-		
		10 = 1" 1/4	-	-	10	-		
		12 = 1" 1/2	-	-	-	12		
		18 = M18 x 1,5	18	-	-	-		
		B BYPASS VALVE						
		B = 170 kPa (1,7 bar)	B	B	B	B		
		SEALS					SEALS	
		N = NBR Nitrile	N	N	N	N	N = NBR	
		F = FKM Fluoroelastomer	F	F	F	F	F = FKM	
		FILTER MEDIA					FILTER MEDIA	
		FA = fiber 3 μ β >200	FA	FA	FA	FA	FA = fiber 3 μ	
		FB = fiber 6 μ β >200	FB	FB	FB	FB	FB = fiber 6 μ	
		FC = fiber 12 μ β >200	FC	FC	FC	FC	FC = fiber 12 μ	
		FD = fiber 25 μ β >200	FD	FD	FD	FD	FD = fiber 25 μ	
		CC = cellulose 10 μ β >2	CC	CC	CC	CC	CC = cell. 10 μ	
		CD = cellulose 25 μ β >2	CD	CD	CD	CD	CD = cell. 25 μ	
		CLOGGING INDICATORS						
		03 = port, plugged	03	03	03	03		
		50 = diff. visual 1,3 bar (130 kPa)	50	50	50	50		
		60 = diff., electrical 1,3 bar (130 kPa)	60	60	60	60		
		T0 = 60 + thermostat 30°C	T0	T0	T0	T0		
		70 = diff.vis.electrical 1,3 bar (130 kPa)	70	70	70	70		
		0R = 1/8" predisposition	0R	0R	0R	0R		
		31 = pressure gauge	31	31	31	31		
		80 = pressure switch, N.O. contacts	80	80	80	80		
		81 = pressure switch, N.C. contacts	81	81	81	81		
		X ACCESSORIES						
		X = no accessory available	X	X	X	X		

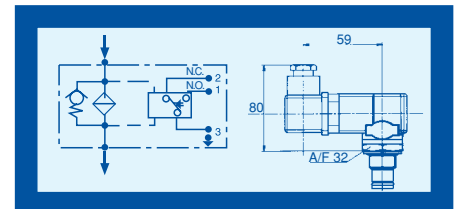
CLOGGING INDICATORS



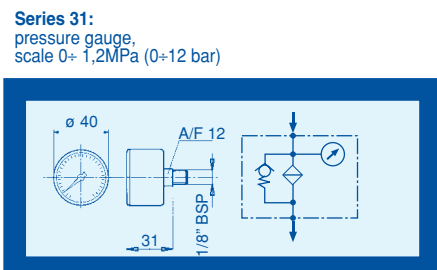
Series 50:
differential visual indicator,
set 130 kPa (1,3 bar) +/-10%



Series 70:
differential visual-electrical indicator, set 130 kPa (1,3 bar)
+/-10% - 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. 30-50-75-125V
> max resistive load 2-0,5-0,25-0,2A resp.
> max inductive load 2-0,5-0,25-0,03A resp.

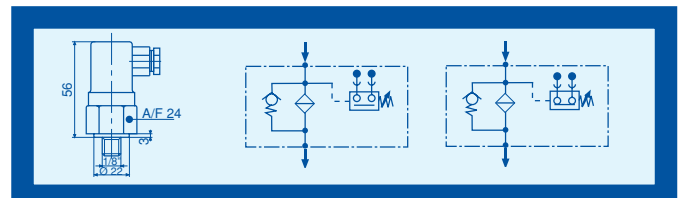


Series 60 & series T0:
differential electrical indicator, set 130 kPa (1,3 bar) +/- 10%.
Connector according to DIN 43650. Protection IP65
according to DIN 40050 (thermostat 30°C for T0).
SPDT: C.A. 125-250 V
>max resistive or inductive load 1A;
C.C. 30-50-75-125V
> max resistive load 2-0,5-0,25-0,2A resp.
> max inductive load 2-0,5-0,25-0,03A resp.



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

**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,

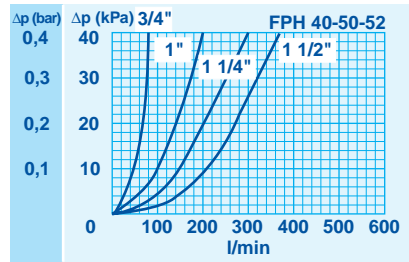
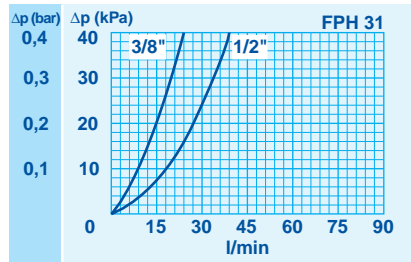


PRESSURE DROP (Δp) CURVES

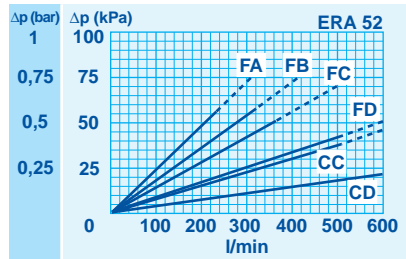
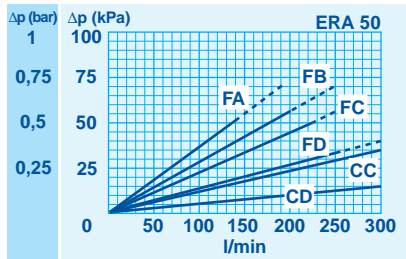
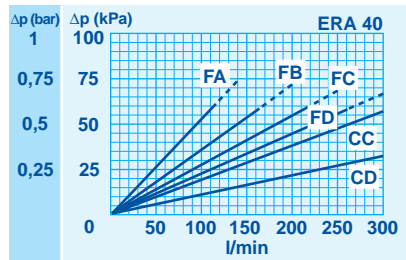
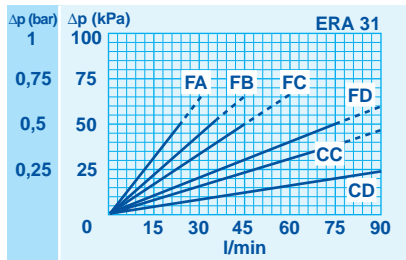
The "Assembly Pressure Drop (Δp)" is obtained by adding the pressure drop values of the filter Housing and of the Clean Filter Element corresponding to the

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

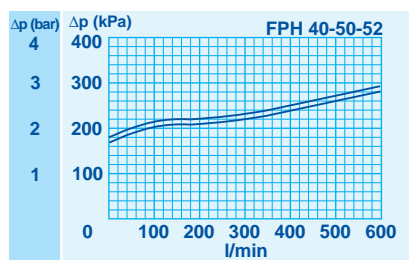
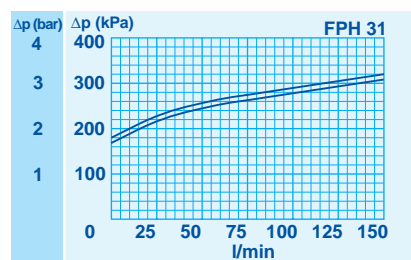


N.B. All the curves have been obtained with mineral oil having a kinematic viscosity 30 cSt and specific gravity 0,9; for fluids with different features, please consider the factors described in the first part of this catalogue.

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.

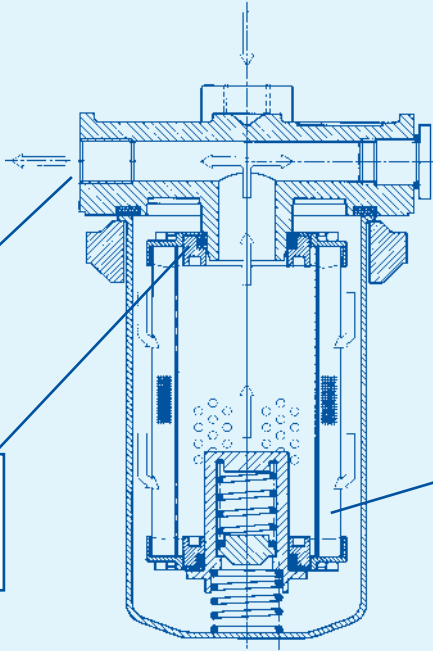


N.B. All the curves are obtained from test done at the UFI HYDRAULIC DIVISION Laboratory, according to the specification ISO 3968. In case of discrepancy, please check the contamination level, viscosity and features of the fluid in use.

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"COMPO CARE" PRESSURE FILTERS

CROSS FUNCTIONAL VIEW



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 variety of applications.

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

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

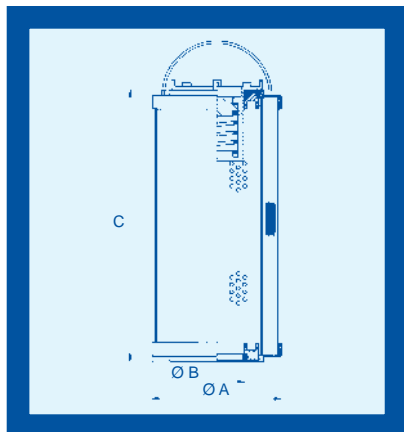
"LONG LIFE" FILTER ELEMENT
The filter elements are designed with a very large filter area giving a highest dirt holding capacity.

SPARE PARTS ORDERING INFORMATION

(from the code of the complete filter, fill the digits corresponding to the boxes)

Filter housing	B	P	H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Head	S	P	H	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	X	<input type="checkbox"/>	<input type="checkbox"/>	X
Bowl	S	P	H	<input type="checkbox"/>	<input type="checkbox"/>	X	X	X	X	<input type="checkbox"/>	X	X	X	X	X
Seal kit	S	P	H	<input type="checkbox"/>	X	X	X	X	X	<input type="checkbox"/>	X	X	X	X	X

DIMENSIONS OF THE FILTER ELEMENTS



Type	A	B	C	Area (cm ²)	
				Media F+	Media C+
E RA31	70	28	93	620	990
E RA40	99	40	178	3.010	3.390
E RA50	130	63	148	4.140	4.360
E RA52	130	63	208	6.190	6.520