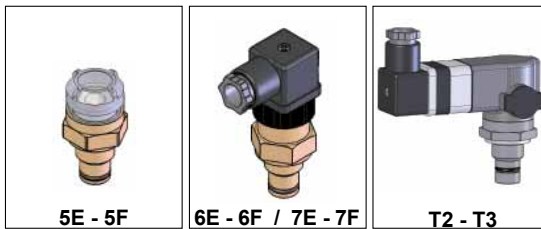


**COMPO CARE**  
 Pressure Filters

**PB**



**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.

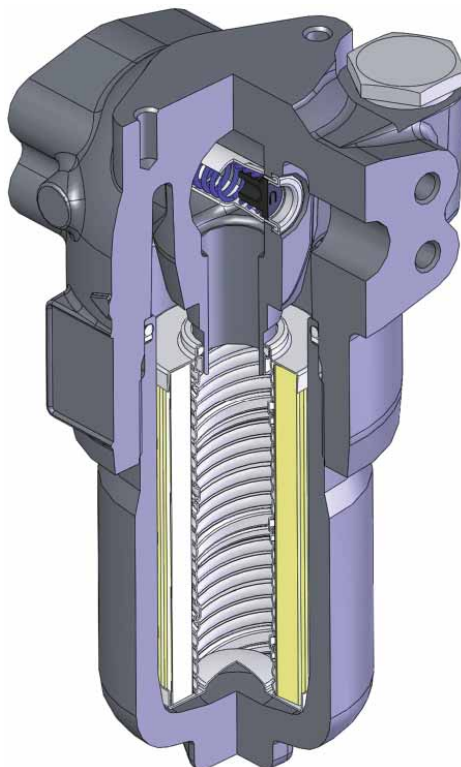


**FILTER HOUSING**  
 The head by high performance cast iron and the bowl by extruded steel ensure the best fatigue resistance to the working pressures.

**FILTER ELEMENT**  
 The filter element is manufactured with filter medias selected in the UFI laboratory and mechanically supported to maintain the highest performance even at high differential pressures.

**SEAL GUARANTEED**  
 A perfect O-ring seal is always ensured as it is not dependent on the tightening torque applied to the bowl.

**EASY MAINTENANCE**  
 The hexagon end of the bowl allows for easy maintenance by using a simple hexagon wrench.



**MATERIALS**

Head:  
 Cast iron

Bowl:  
 Steel

Bypass valve:  
 Steel

Seals:  
 NBR Nitrile  
 (FKM - on request fluoroelastomer)

Indicator housing:  
 Brass

**PRESSURE (ISO 10771-1:2002)**

Max. working: 42 MPa (420 bar)

Test: 62 MPa (620 bar)

Bursting: 126 MPa (1.260 bar)

Collapse, differential  
 for the filter element (ISO 2941):  
 series standard 2 MPa (20 bar)  
 serie H+ 21 MPa (210 bar)

**BYPASS VALVE**

Setting:  
 600 kPa (6 bar) +/-10%

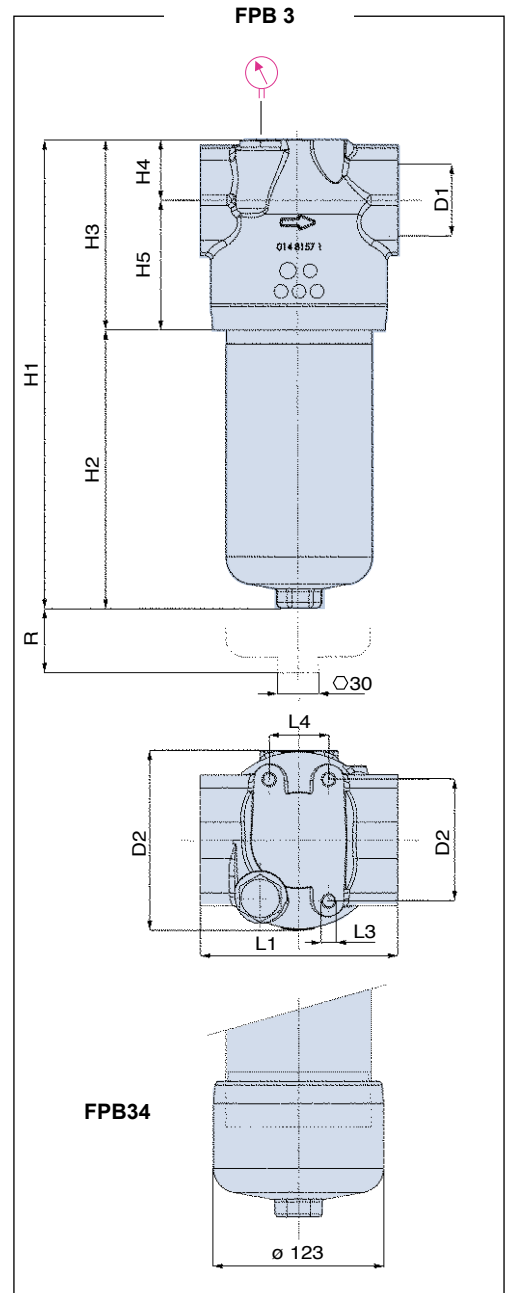
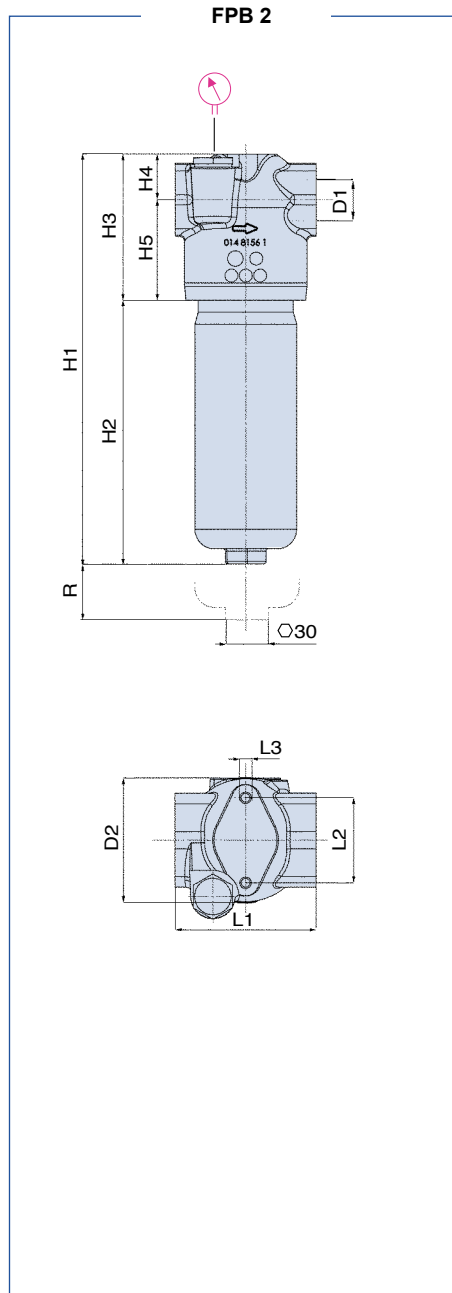
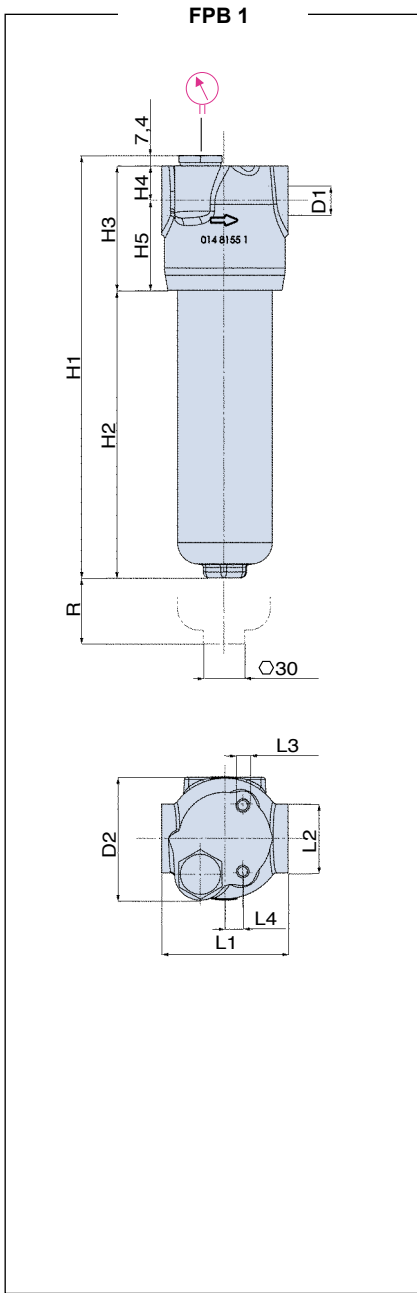
**WORKING TEMPERATURE**

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

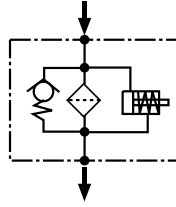
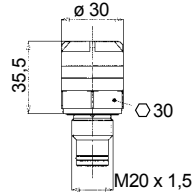
### FILTER HOUSING

	D1	D2	H1	H2	H3	H4	H5	L1	L2	L3	L4	R	kg
FPB11	1/2" - 3/4"	86	166	79	87	24	63	88	46	M8	12,5	100	4,4
FPB12	1/2" - 3/4"	86	196	109	87	24	63	88	46	M8	12,5	100	4,6
FPB13	1/2" - 3/4"	86	296	209	87	24	63	88	46	M8	12,5	100	5,2
FPB21	3/4" - 1"	94	226	116	112	35	77	108	65	M8	-	100	6,6
FPB22	3/4" - 1"	94	317	207	112	35	77	108	65	M8	-	100	8,2
FPB31	1" - 1 1/4" - 1 1/2"	128	245	107	138	44	94	143	88	M10	43	100	11,0
FPB32	1" - 1 1/4" - 1 1/2"	128	337	199	138	44	94	143	88	M10	43	100	13,9
FPB33	1" - 1 1/4" - 1 1/2"	128	457	319	138	44	94	143	88	M10	43	100	17,2
FPB34	1" - 1 1/4" - 1 1/2"	128	558	420	138	44	94	143	88	M10	43	100	22,0

## CLOGGING INDICATORS Differential

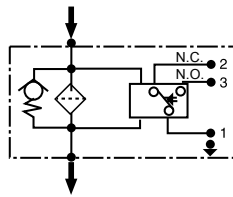
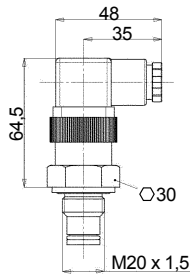
Recommended tightening torque 90 Nm

### SERIES 5E - 5F



**Series 5E & 5F:**  
differential visual indicator,  
set 500 kPa (5 bar) - 5E  
& 800 kPa (8 bar) - 5F +/-10%

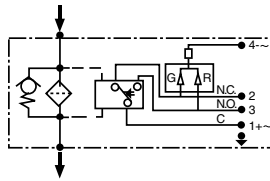
### SERIES 6E - 6F & SERIES 7E - 7F



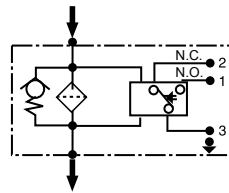
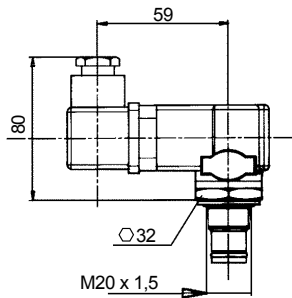
**Series 6E & 6F (series 7E & 7F with LED - 24V):**  
differential electrical indicator,  
set 500 kPa (5 bar) - 6E  
& 800 kPa (8 bar) - 6F +/-10%.

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. 14-30 V  
> max resistive or inductive load 4-3 A resp.



### SERIES T2 - T3



**Series T2 & T3:**  
differential electrical indicator  
with thermostat 30°C,  
set 500 kPa (5 bar) - T2 &  
800 kPa (8 bar) - T3 +/-10%.

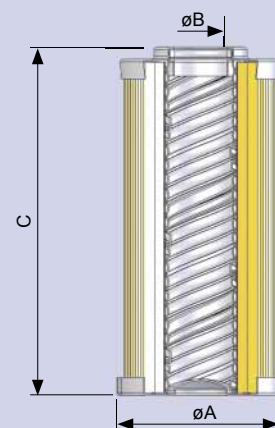
Connector according to DIN 43650.  
Protection IP65 according to DIN 40050.  
SPDT: C.A. 125-250 V

> max resistive or inductive load 1A;  
C.C. 14-30 V  
> max resistive or inductive load 4-3 A resp.

SERIES 72 - 73 AVAILABLE ONLY ON REQUEST - SEE SUMMING UP OF THE CLOGGING INDICATORS

### FILTER ELEMENT

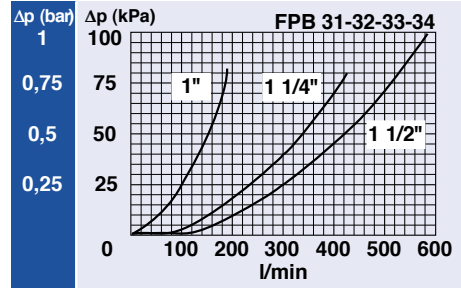
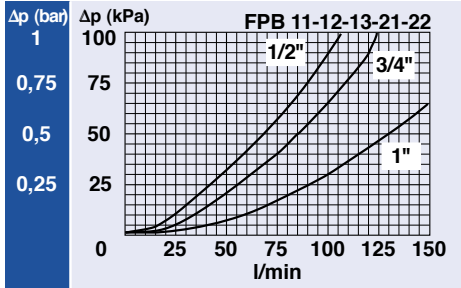
	A	B	C	kg media F+ & C+	kg media H+	Area (cm <sup>2</sup> )		
						Media F+	Media H+	Media C+
EPB11	45	25	85	0,15	0,25	355	340	310
EPB12	45	25	116	0,20	0,55	500	475	435
EPB13	45	25	211	0,30	0,45	935	915	815
EPB21	52	23,5	115	0,25	0,40	975	975	780
EPB22	52	23,5	210	0,35	0,55	1.830	1.785	1.465
EPB31	78	42,5	118	0,40	0,70	2.000	1.470	1.720
EPB32	78	42,5	210	0,80	1,30	3.695	2.695	3.170
EPB33	78	42,5	330	1,00	1,60	5.025	4.325	4.025
EPB34	78	42,5	430	1,20	1,80	6.585	5.685	6.585



## PRESSURE DROP CURVES ( $\Delta p$ )

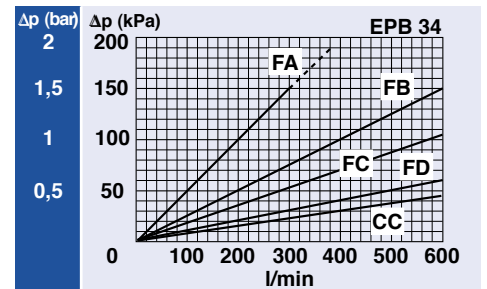
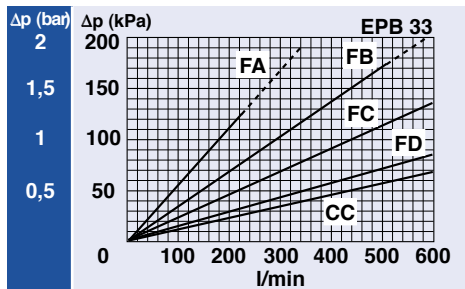
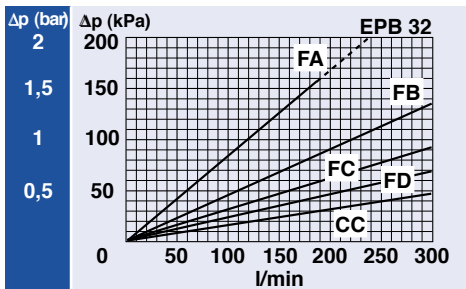
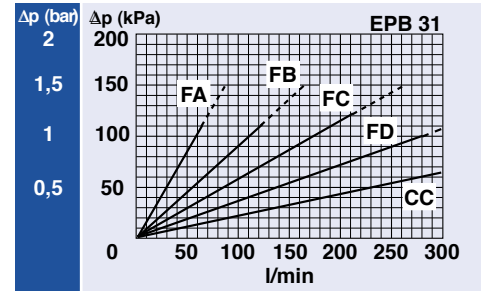
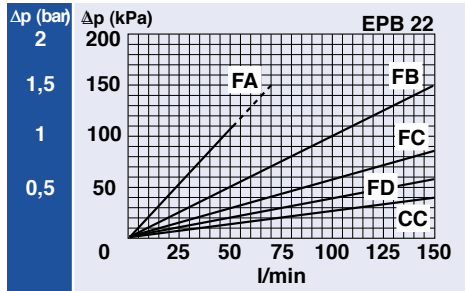
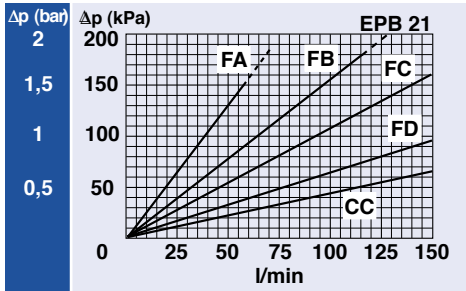
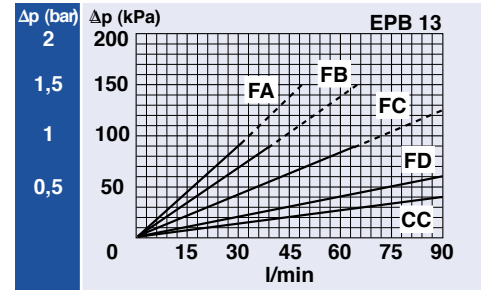
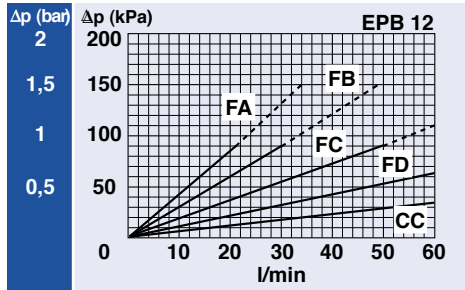
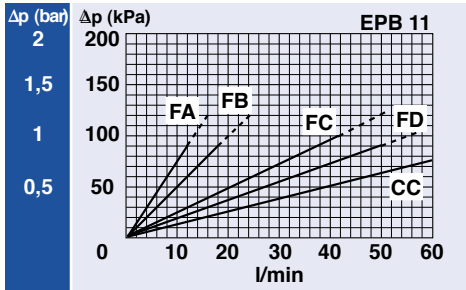
The "Assembly Pressure Drop ( $\Delta p$ )" is obtained by adding the pressure drop values of the Filter Housing and of the Clean Filter Element corresponding to the considered Flow Rate and it must be lower than 120 kPa (1,2 bar).

### 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)



## PRESSURE DROP CURVES ( $\Delta p$ )

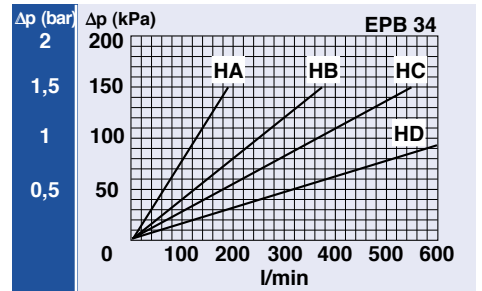
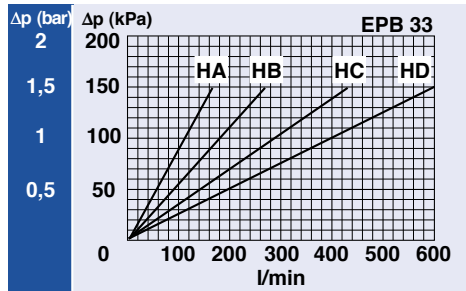
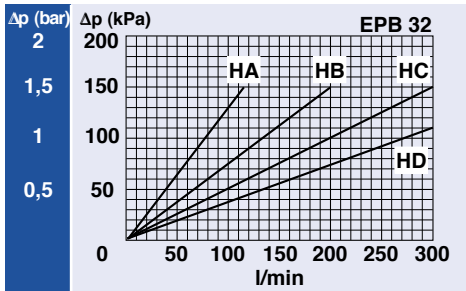
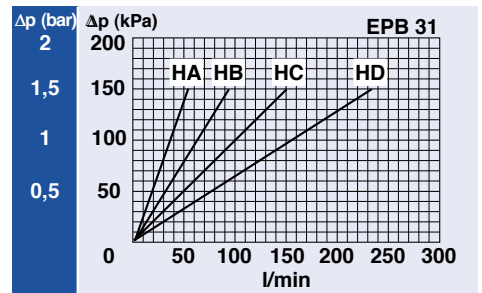
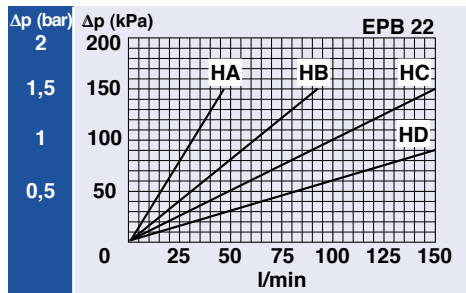
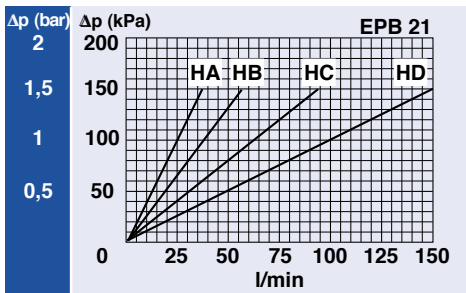
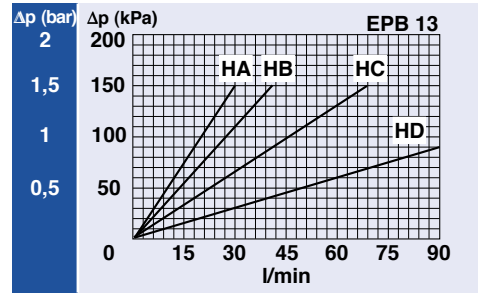
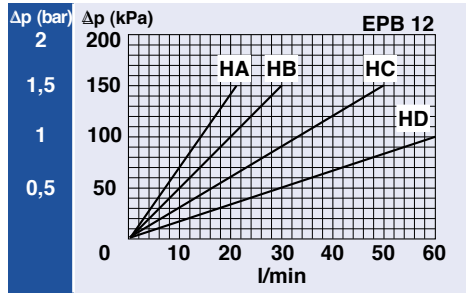
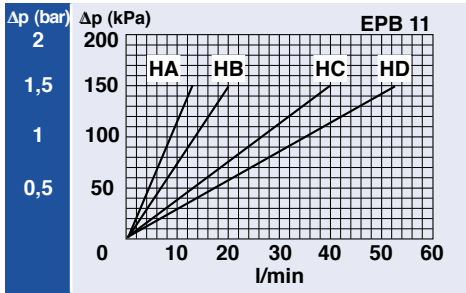
The "Assembly Pressure Drop ( $\Delta p$ )" is obtained by adding the pressure drop values of the Filter Housing and of the Clean Filter Element corresponding to the considered Flow Rate and it must be lower than 120 kPa (1,2 bar).

### CLEAN FILTER ELEMENT PRESSURE DROP

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

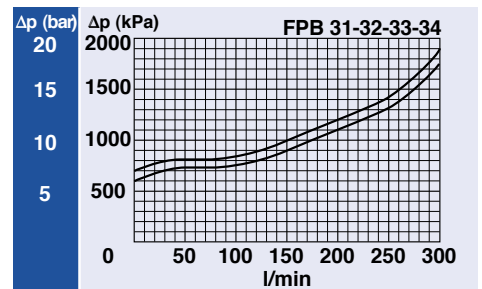
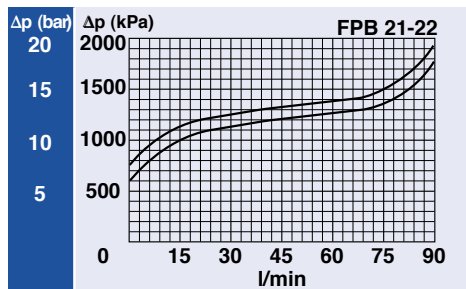
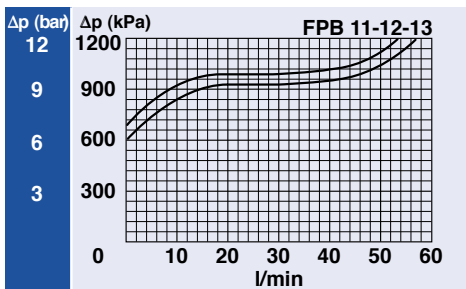
#### WITH H+ MEDIA

(recommended with no bypass option)



### 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/dm<sup>3</sup>; 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.

