

PD



MATERIALS

Head:
Cast iron

Bowl:
Steel

Bypass valve:
Steel

Seals:
NBR Nitrile
(FKM - on request fluoroelastomer)

Indicator housing:
Brass

PRESSURE (ISO 10771-1:2002)

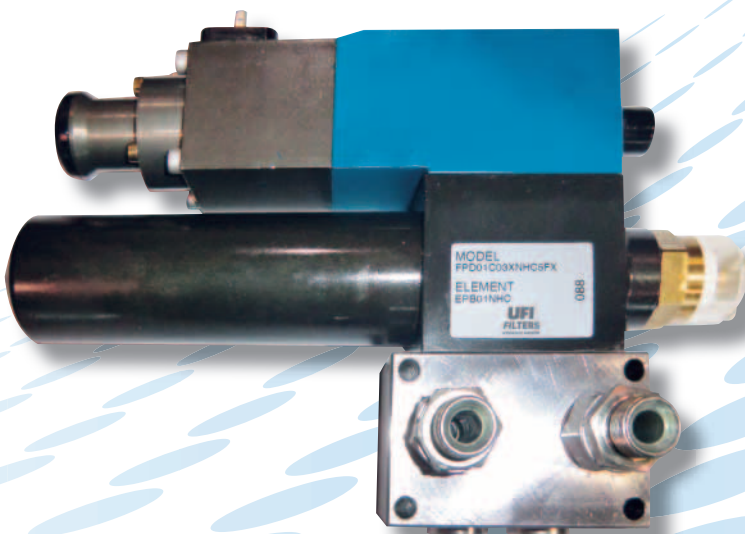
Max. working: 31,5 MPa (315 bar)

Test: 47 MPa (470 bar)

Bursting: 95 MPa (950 bar)

Collapse, differential
for the filter element (ISO 2941):
21 MPa (210 bar)

APPLICATION EXAMPLE



WORKING TEMPERATURE

From -25° to + 110° C

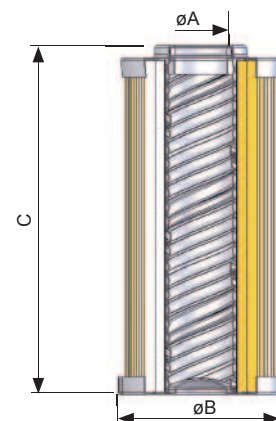
COMPATIBILITY (ISO 2943:1999)

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

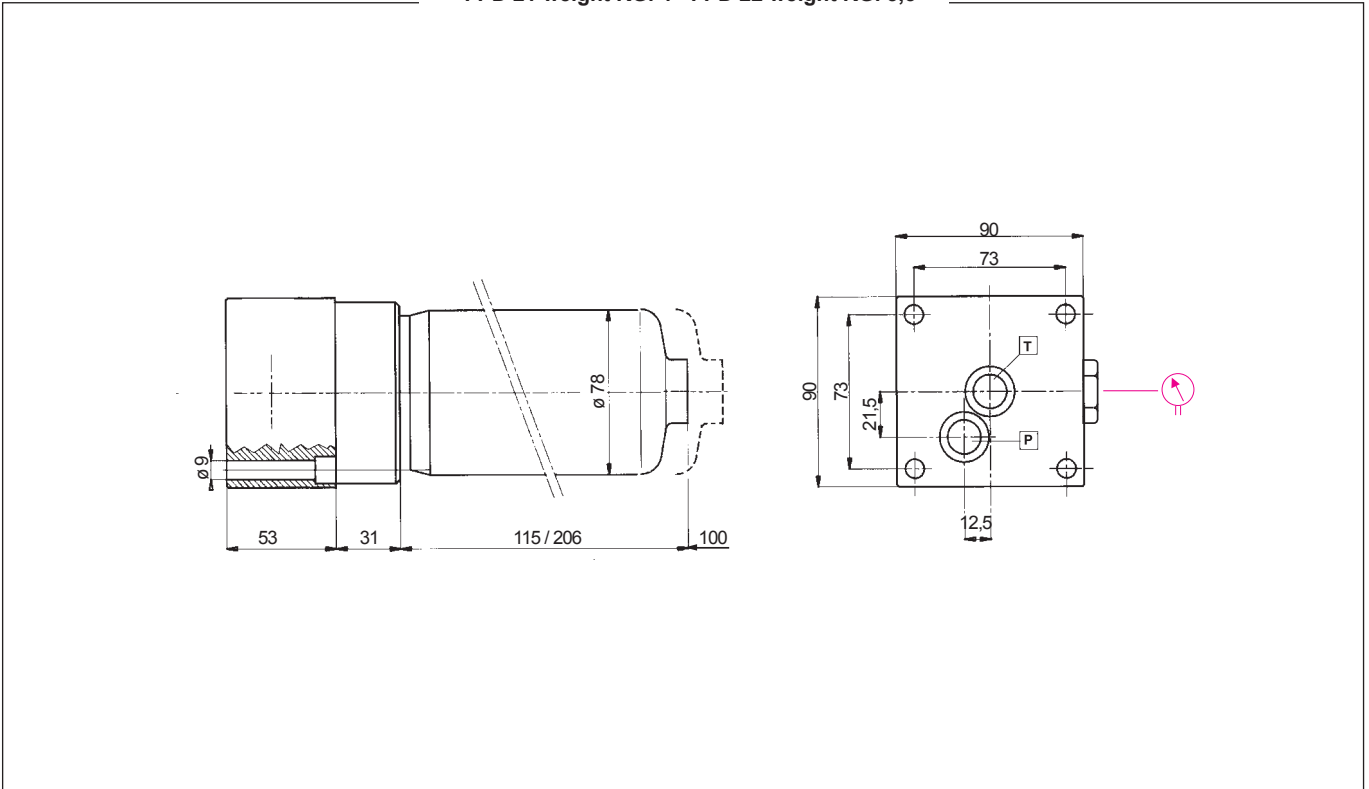
TYPE					
F = FILTER COMPLETE		F	F	F	
B = FILTER HOUSING		B	B	B	ELEMENT E
P D	FAMILY,	01	02	12	
	NOMINAL SIZE & LENGTH	01	12	12	FAMILY SIZE & LENGTH P B
PORT TYPE					
C = CETOP interface		C	C	C	
Y = bowl side B		Y	Y	-	
PORT SIZE					
03 = CETOP 3 (size 6)		03	03	-	
05 = CETOP 5 (size 10)		-	-	05	
X	BYPASS VALVE				
X = not available		X	X	X	
SEALS					SEALS
N = NBR Nitrile		N	N	N	N = NBR
F = FKM Fluoroelastomer		F	F	F	F = FKM
FILTER MEDIA					FILTER MEDIA
HA = fiber 5 $\mu\text{m}_{(e)}$ $\beta > 1.000 \Delta p_{21}$ MPa (210 bar)		HA	HA	HA	HA = fiber 5 $\mu\text{m}_{(e)}$
HB = fiber 7 $\mu\text{m}_{(e)}$ $\beta > 1.000 \Delta p_{21}$ MPa (210 bar)		HB	HB	HB	HB = fiber 7 $\mu\text{m}_{(e)}$
HC = fiber 12 $\mu\text{m}_{(e)}$ $\beta > 1.000 \Delta p_{21}$ MPa (210 bar)		HC	HC	HC	HC = fiber 12 $\mu\text{m}_{(e)}$
HD = fiber 21 $\mu\text{m}_{(e)}$ $\beta > 1.000 \Delta p_{21}$ MPa (210 bar)		HD	HD	HD	HD = fiber 21 $\mu\text{m}_{(e)}$
CLOGGING INDICATOR					
03 = port, plugged		03	03	03	When the filter is ordered with FKM seals, the first digit of the indicator code is a letter (please see page 182 - 183).
5F = visual differential 800 kPa (8 bar)		5F	5F	5F	
6F = electrical differential 800 kPa (8 bar)		6F	6F	6F	
7F = indicator 6F with LED		7F	7F	7F	
T3 = elect. diff. 800 kPa (8 bar) with thermostat 30°C		T3	T3	T3	
X X	ACCESSORIES				N.B. Indicator series 73 only on request
XX = no accessory available		XX	XX	XX	

FILTER ELEMENT

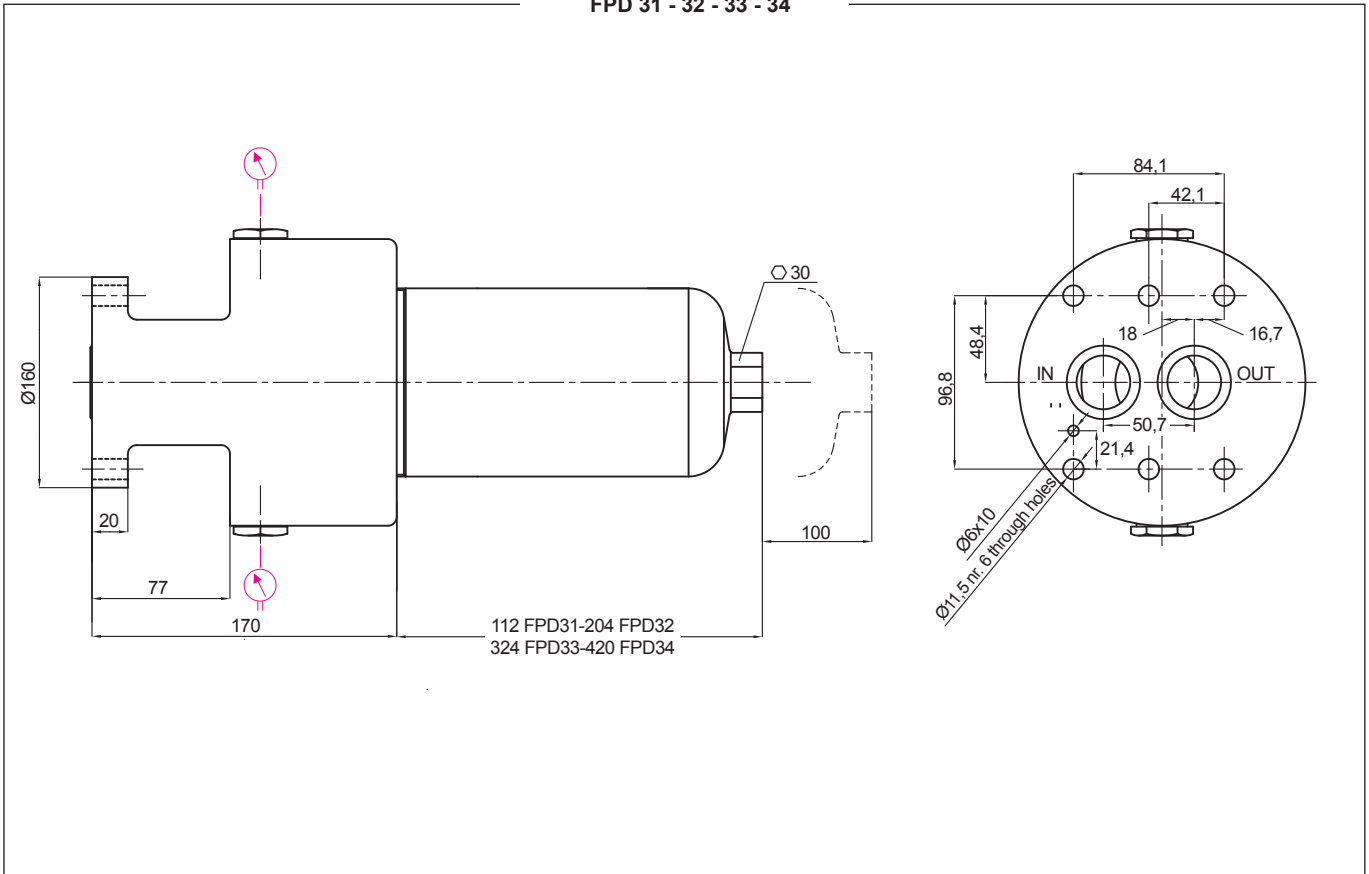
	A	B	C	kg	Area (cm ²) Media H+
EPB01	16	33	100	0,14	270
EPB12	25	45	115	0,55	475



FPD 21 weight KG. 4 - FPD 22 weight KG. 5,5



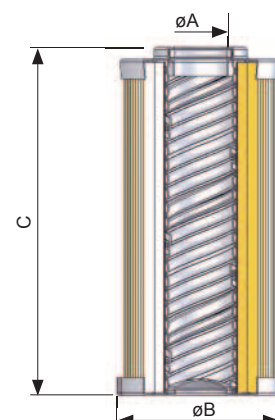
FPD 31 - 32 - 33 - 34



	TYPE								
	F = FILTER COMPLETE	F	F	F	F	F	F		
	B = FILTER HOUSING	B	B	B	B	B	B	ELEMENT	E
P D	FAMILY NOMINAL SIZE & LENGTH							FAMILY SIZE & LENGTH	P B
		21	22	31	32	33	34		
C	PORT TYPE								
	C = CETOP interface	C	C	C	C	C	C		
	PORT SIZE								
	07 = CETOP 7 size 16	07	07	-	-	-	-		
	30 = SIZE 30	-	-	30	30	30	30		
X	BYPASS VALVE								
	X = not available	X	X	X	X	X	X		
	SEALS							SEALS	
	N = NBR Nitrile	N	N	N	N	N	N	N = NBR	
	F = FKM Fluoroelastomer	F	F	F	F	F	F	F = FKM	
	FILTER MEDIA							FILTER MEDIA	
	HA = fiber 5 μm _(e) β > 1.000 Δp21 MPa (210 bar)	HA	HA	HA	HA	HA	HA	HA = fiber 5 μm _(e)	
	HB = fiber 7 μm _(e) β > 1.000 Δp21 MPa (210 bar)	HB	HB	HB	HB	HB	HB	HB = fiber 7 μm _(e)	
	HC = fiber 12 μm _(e) β > 1.000 Δp21 MPa (210 bar)	HC	HC	HC	HC	HC	HC	HC = fiber 12 μm _(e)	
	HD = fiber 21 μm _(e) β > 1.000 Δp21 MPa (210 bar)	HD	HD	HD	HD	HD	HD	HD = fiber 21 μm _(e)	
	CLOGGING INDICATOR								
	03 = port, plugged	03	03	03	03	03	03	When the filter is ordered with FKM seals, the first digit of the indicator code is a letter (please see page 182 - 183).	
	5F = visual differential 800 kPa (8 bar)	5F	5F	5F	5F	5F	5F		
	6F = electrical differential 800 kPa (8 bar)	6F	6F	6F	6F	6F	6F		
	7F = indicator 6F with LED	7F	7F	7F	7F	7F	7F		
	T3 = elect. diff. 800 kPa (8 bar) with thermostat 30°C	T3	T3	T3	T3	T3	T3		
								N.B. Indicator series 73 only on request	
X X	ACCESSORIES								
	XX = no accessory available	XX	XX	XX	XX	XX	XX		

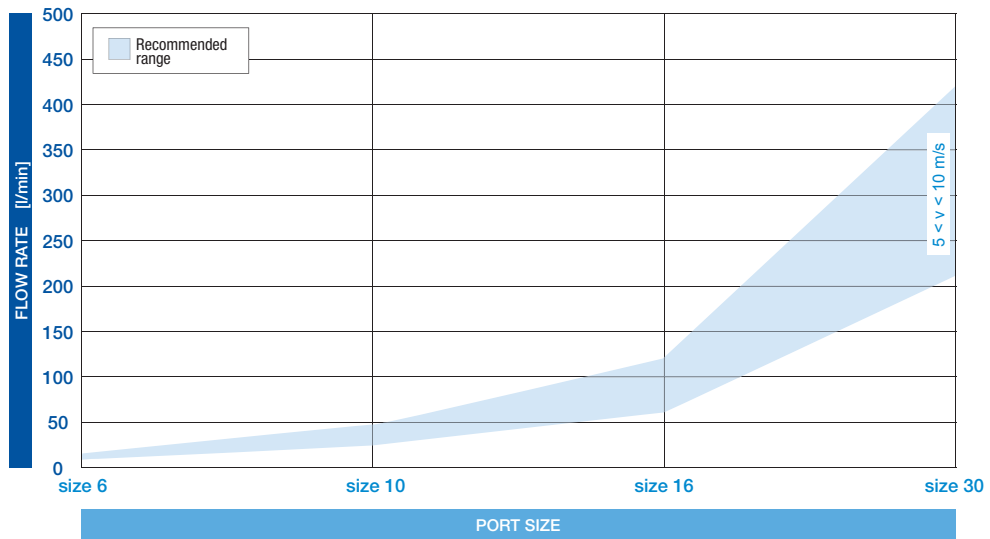
FILTER ELEMENT

	A	B	C	kg	Area (cm²) Media H+
EPB21	23,5	52	115	0,40	975
EPB22	23,5	52	210	0,55	1.785
EPB31	42,5	78	118	0,70	1.470
EPB32	42,5	78	210	1,30	2.695
EPB33	42,5	78	330	1,60	4.325
EPB34	42,5	78	430	1,80	5.685



FLUID SPEED

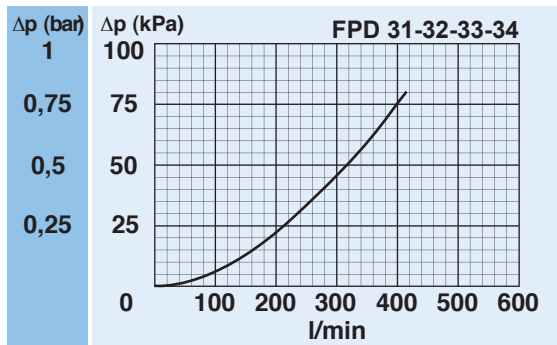
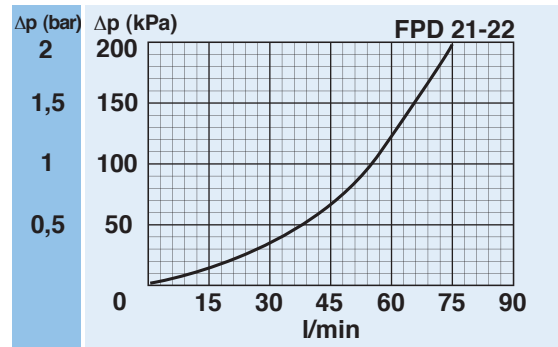
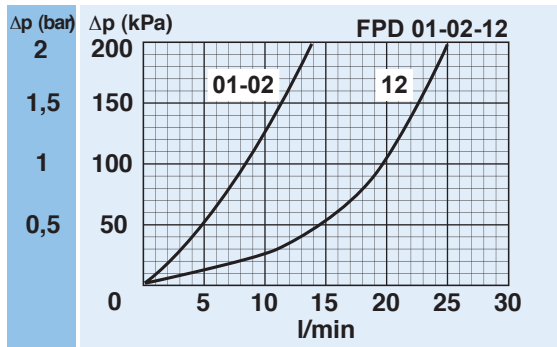
(when selecting the filter size, we suggest to consider also the max recommended fluid speed (in pressure lines normally $5 < v < 10$ m/s).



PRESSURE DROP CURVES (Δp)

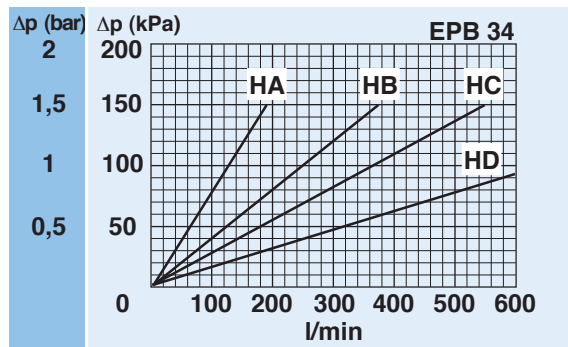
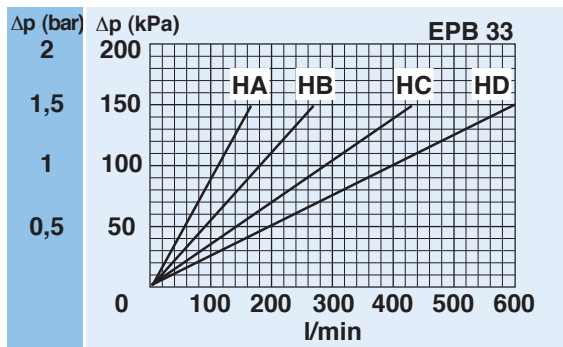
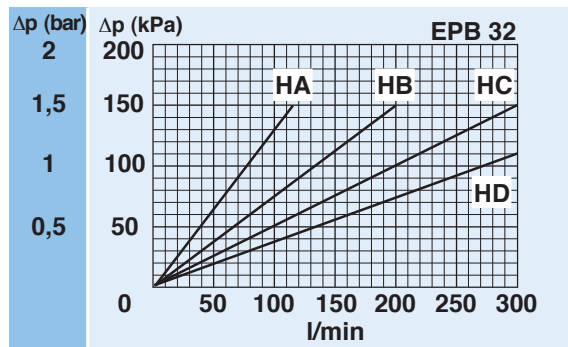
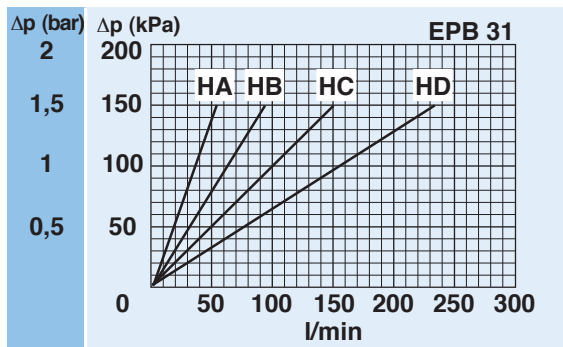
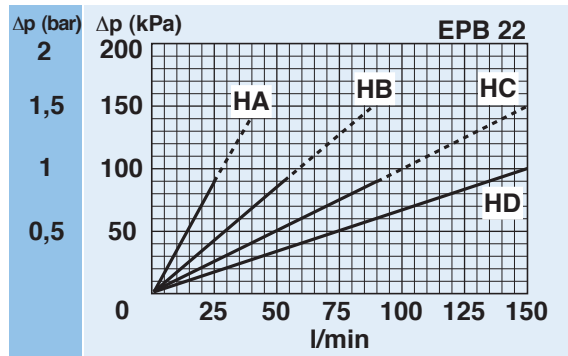
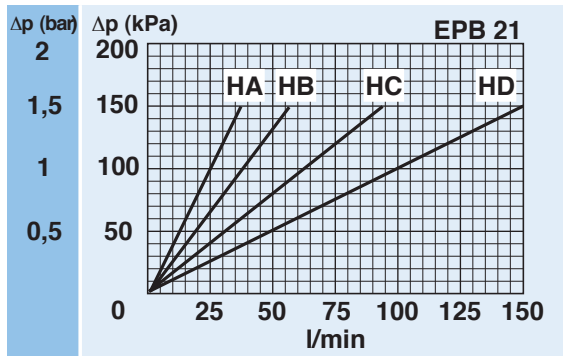
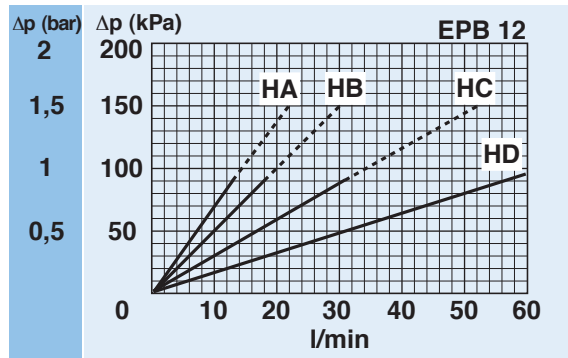
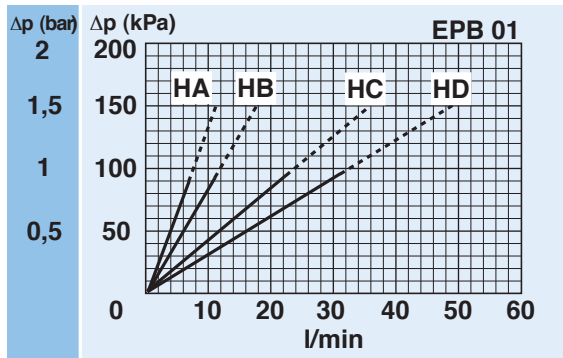
The “Assembly Pressure Drop (Δp)” is obtained by adding the pressure drop values of the Filter Housing and of the Clean Filter Element corresponding to the considered Flow Rate and it must be lower than 120 kPa (1,2 bar).

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



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.

CLEAN FILTER ELEMENT PRESSURE DROP WITH H+ MEDIA
 (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 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.

