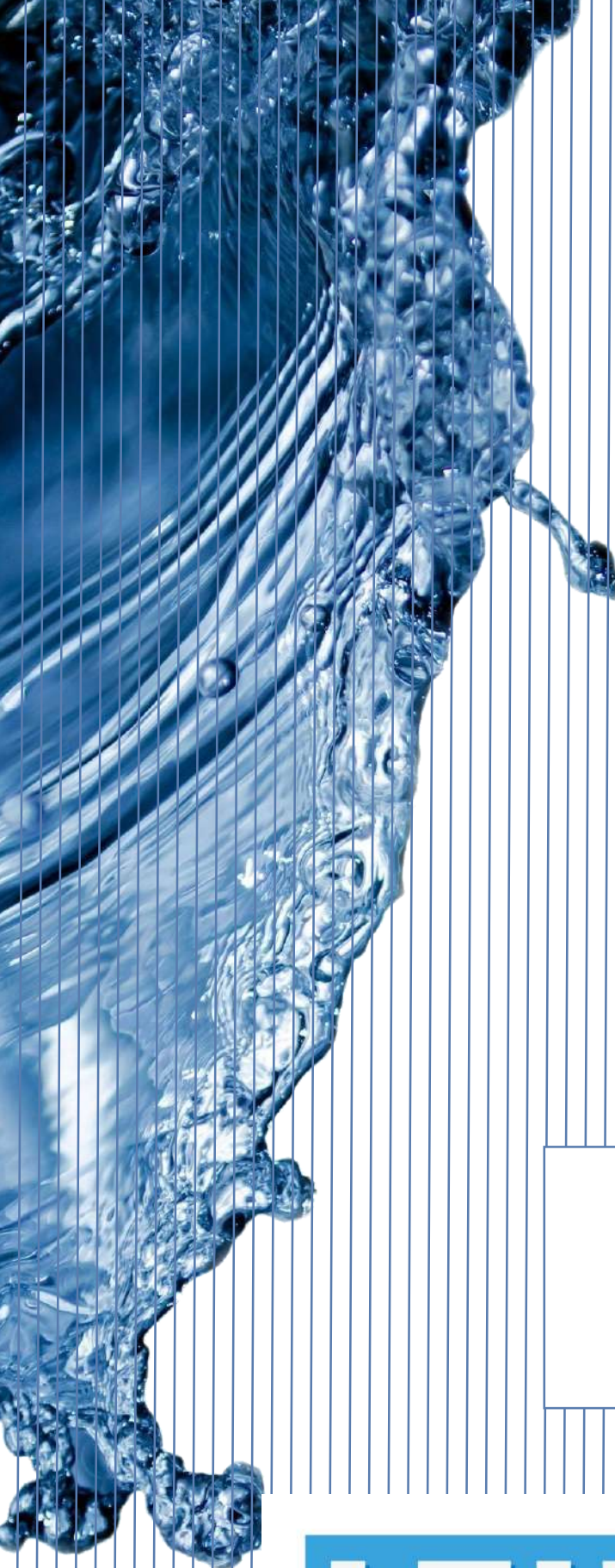




UFI FILTERS
FPD



 HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL



FPD

PRESSURE FILTERS

DESCRIPTION

Modular inline filter

MATERIALS

Head: Cast iron

Bowl: Steel

Bypass valve: Steel

Seals: NBR Nitrile (FKM Fluoroelastomer on request)

Indicator housing: Brass

PRESSURE

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

Collapse, differential for the filter element:

21 MPa (210 bar)

FLOW RATE

Qmax 400 l/min

WORKING TEMPERATURE

From -25° to +110° C

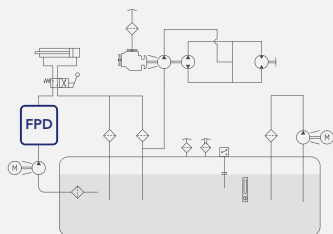
COMPATIBILITY (ISO 2943)

Full with fluids: HH-HL-HM-HV-HTG

(according to ISO 6743/4)

For fluids different than the above mentioned,
please contact our Customer Service

HYDRAULIC DIAGRAM



Is this datasheet the latest release? Please check on our website



FPD

PRESSURE FILTERS

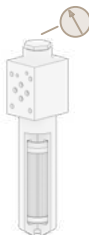
ORDERING AND OPTION CHART

F	P	D	COMPLETE FILTER FAMILY										FILTER ELEMENT FAMILY										E	P	B						
			SIZE & LENGTH										01	02	12	21	22	31	32	33	34	35									
													01	12	12	21	22	31	32	33	34	35	SIZE & LENGTH								
			PORT TYPE																												
			C = CETOP interface										C	C	C	C	C	C	C	C	C	C	C								
			Y = bowl side B										Y	Y	-	-	-	-	-	-	-	-	-								
			PORT SIZE																												
			03 = CETOP 3 (size 6)										03	03	-	-	-	-	-	-	-	-	-								
			05 = CETOP 5 (size 10)										-	-	05	-	-	-	-	-	-	-	-								
			07 = CETOP 7 (size 16)										-	-	-	07	07	-	-	-	-	-	-								
			30 = size 30										-	-	-	-	-	30	30	30	30	30	30								
X			BYPASS VALVE																												
			X = not available										X	X	X	X	X	X	X	X	X	X	X	X							
			SEALS																												
			N = NBR Nitrile										N	N	N	N	N	N	N	N	N	N	N	N							
			F = FKM Fluoroelastomer										F	F	F	F	F	F	F	F	F	F	F	F							
			FormulaUFI MEDIA																												
			HA = FormulaUFI.MICRON 5 μm _(c) β>1.000 Δp 21 MPa (210 bar)										HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA							
			HB = FormulaUFI.MICRON 7 μm _(c) β>1.000 Δp 21 MPa (210 bar)										HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB							
			HC = FormulaUFI.MICRON 12 μm _(c) β>1.000 Δp 21 MPa (210 bar)										HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC							
			HD = FormulaUFI.MICRON 21 μm _(c) β >1.000 Δp 21 MPa (210 bar)										HD	HD	HD	HD	HD	HD	HD	HD	HD	HD	HD	HD							
			CLOGGING INDICATOR**																												
			03 = port, plugged										03	03	03	03	03	03	03	03	03	03	03	03							
			5F = visual differential 800 kPa (8 bar)										5F	5F	5F	5F	5F	5F	5F	5F	5F	5F	5F	5F							
			6F = electrical differential 800 kPa (8 bar)										6F	6F	6F	6F	6F	6F	6F	6F	6F	6F	6F	6F							
			7F = indicator 6F with LED										7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F							
			T3 = elect. diff. 800 kPa (8 bar) with thermostat 30°C										T3	T3	T3	T3	T3	T3	T3	T3	T3	T3	T3	T3							
X	X		ACCESSORI / ACCESSORIES																												
			XX = no accessories available										XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX						

** When the filter is ordered with FKM seals, the first digit of the indicator code is a letter (please see Clogging Indicator Chapter for further details)

** When the filter is ordered with FKM seals, the first digit of the indicator code is a letter (please see Clogging Indicator Chapter for further details)

SPARE PARTS

FILTER HOUSING				FILTER ELEMENT				CLOGGING INDICATOR			
											
B	P	D		X				X	X		
E	P	B									

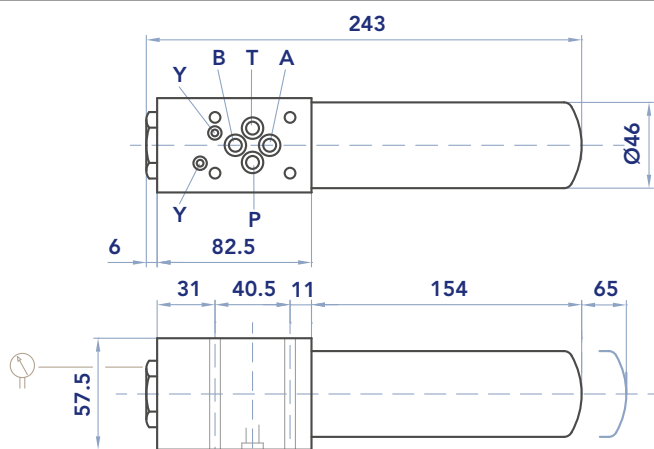
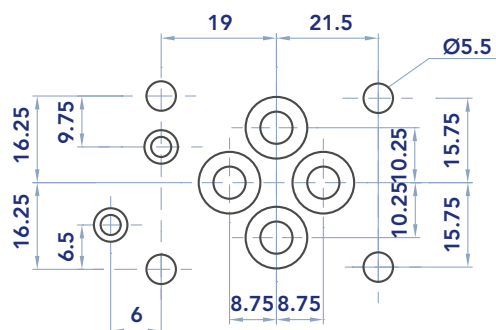
SPARE SEAL KIT

	NBR	FKM
FPD01	521.0005.2	521.0073.2
FPD02	521.0107.2	521.0108.2
FPD12	521.0071.2	521.0074.2

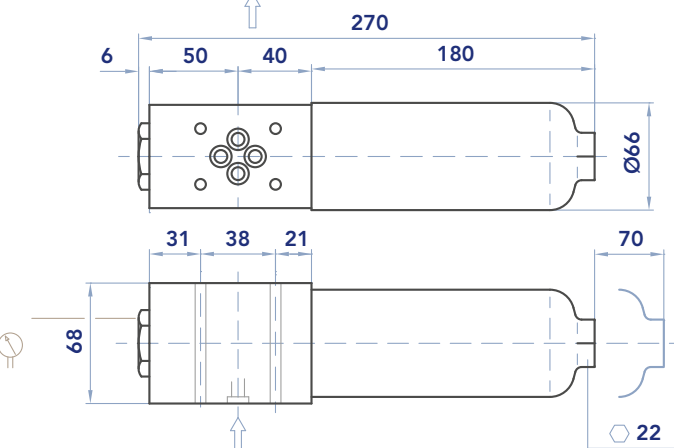
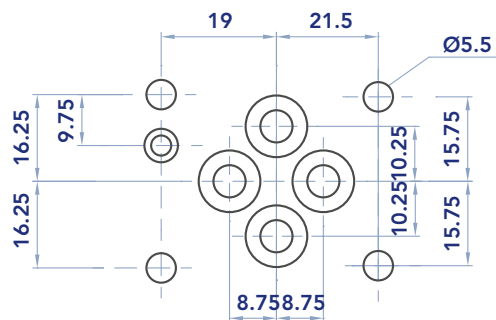
	NBR	FKM
FPD21-22	521.0072.2	521.0028.2
FPD31-32-33-34-35	521.0109.2	521.0110.2

INSTALLATION DRAWING

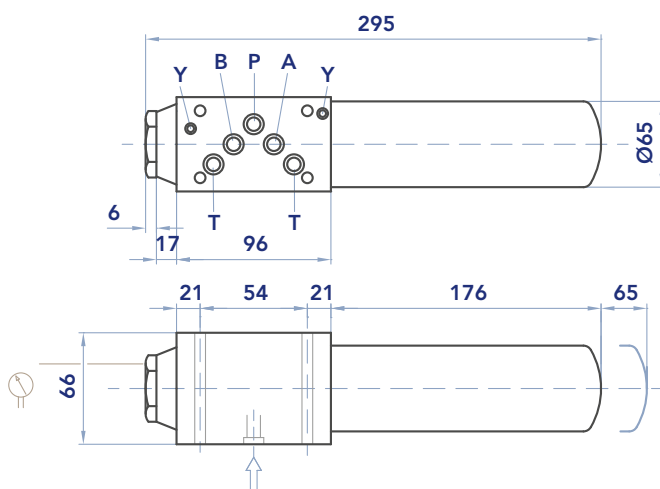
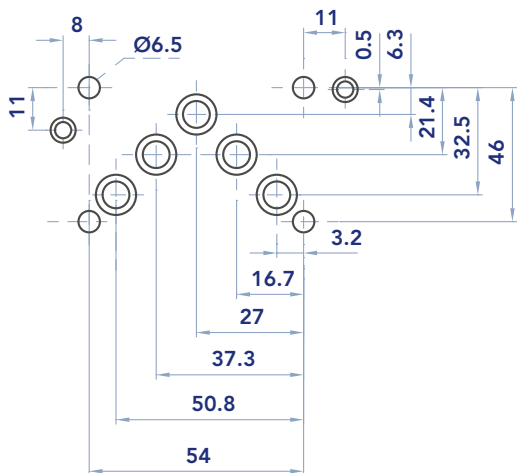
FPD 01 weight Kg. 2.5



FPD 02 weight Kg. 2.5

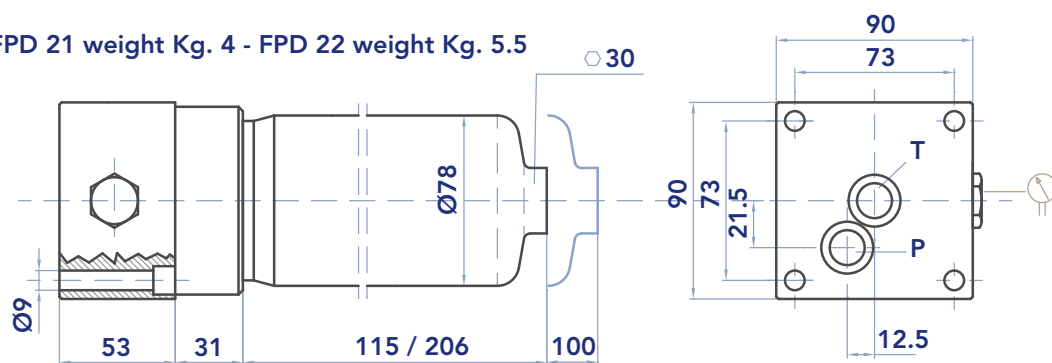


FPD 12 weight Kg. 4.2

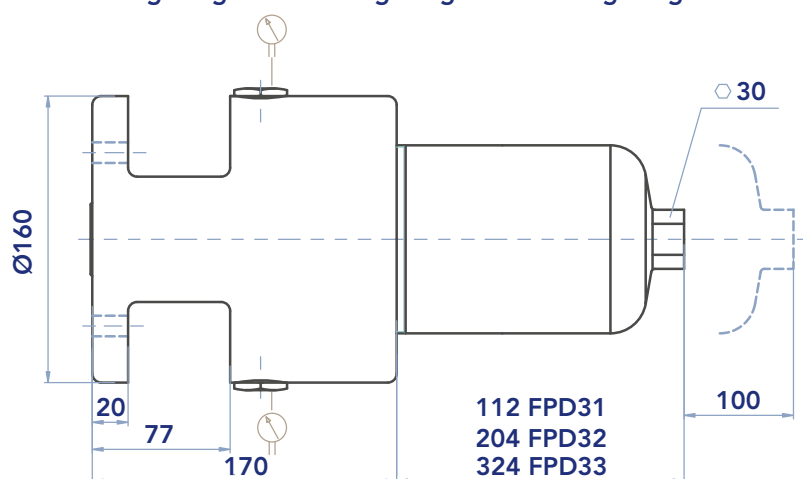


INSTALLATION DRAWING

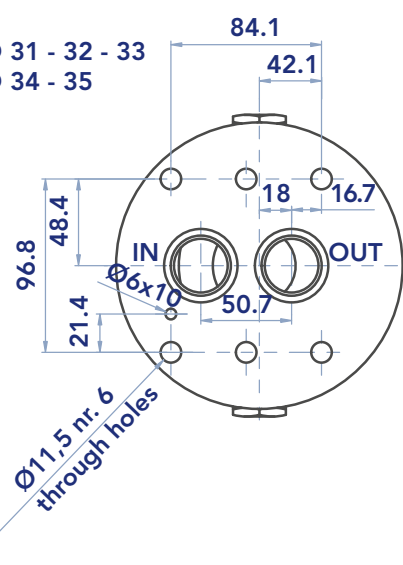
FPD 21 weight Kg. 4 - FPD 22 weight Kg. 5.5



FPD 31 weight Kg. 24 - 32 weight Kg. 27 - 33 weight Kg. 31



FPD 31 - 32 - 33
FPD 34 - 35

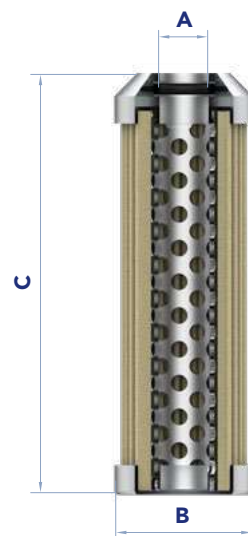


FPD 34 weight Kg. 35 - 35 weight Kg. 38.5



FILTER ELEMENT

	A	B	C	Kg	AREA (cm ²) Media H+
EPB01	33	16	100	0,14	270
EPB12	45	25	116	0,55	475
EPB21	52	23,5	115	0,40	975
EPB22	52	23,5	210	0,55	1.785
EPB31	78	42,5	118	0,70	1.470
EPB32	78	42,5	210	1,30	2.695
EPB33	78	42,5	330	1,60	4.325
EPB34	78	42,5	430	1,80	5.685
EPB35	78	42,5	530	2,00	7.045



MAINTENANCE

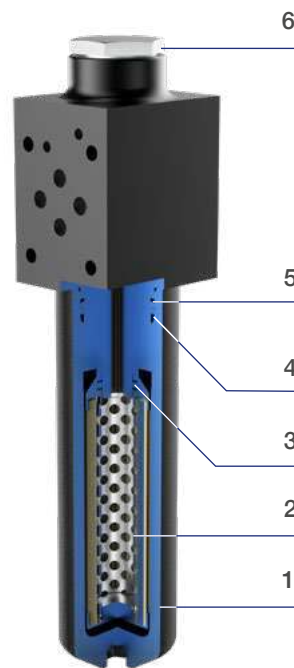
- 1) Stop the system and verify there is no pressure in the filter.
- 2) Collect the oil inside the filter with a suitable container.
- 3) Unscrew the bowl (1) and clean it.
- 4) Remove the dirty filter element (2).
N.B. The exhausted filter elements and the oil dirty filter parts are classified "Dangerous waste material" and must be disposed of according to the local laws, by authorized Companies.
- 5) Check the filter element part number on the filter label or in the ordering and option chart.
Use only original spare parts.
- 6) Lubricate the element o-ring gasket (3) with oil.
- 7) Insert the clean element into its seat with care.
- 8) Check the condition of the o-ring on the bowl (4) and lubricate with oil .
If damaged, check the seal kit part number in the spare seal kit table.
N.B. The anti-extrusion ring (5) must be positioned as follows:
FPD01-FPD02 upwards with the concave part downwards (seal side);
FPD2-FPD3 downwards (in this series the anti-extrusion ring has no concave part).
- 9) Screw the bowl (1) until it stops, with a tightening torque of 70 Nm + 5/0.

Accessories:

Clogging indicator (6).

If damaged, unscrew and replace it (check the part number in the ordering and option chart).

Lubricate the o-ring gasket with oil and tighten until it stops, with a tightening torque of 40 Nm +5/0.



FPD

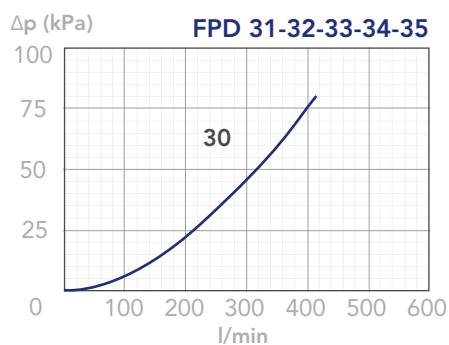
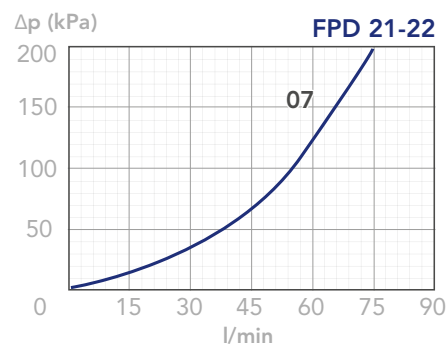
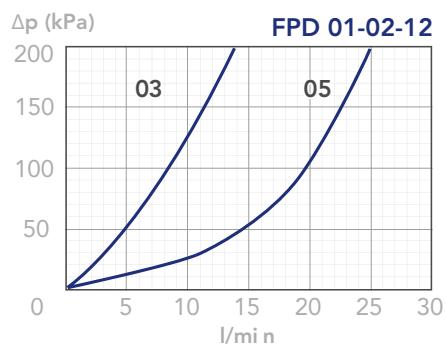
PRESSURE FILTERS

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

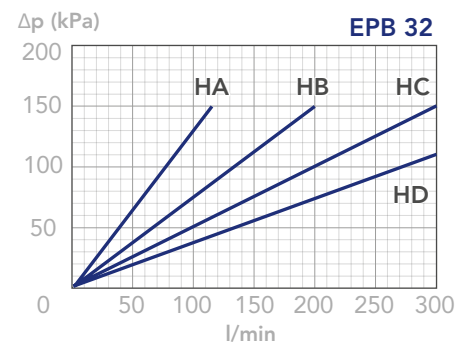
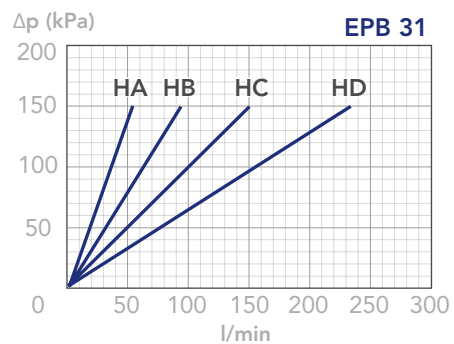
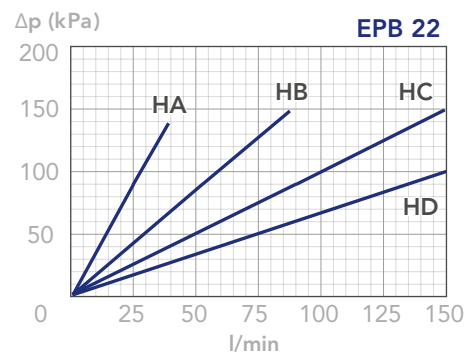
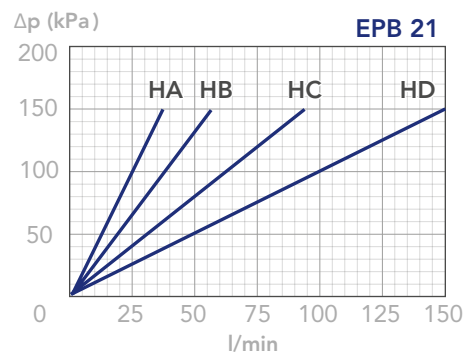
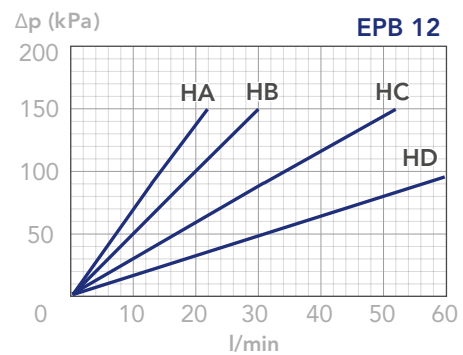
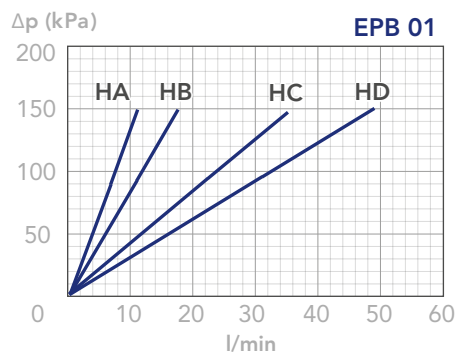
Element corresponding to the considered Flow Rate and it must be lower than 120 kPa (1,2 bar).

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



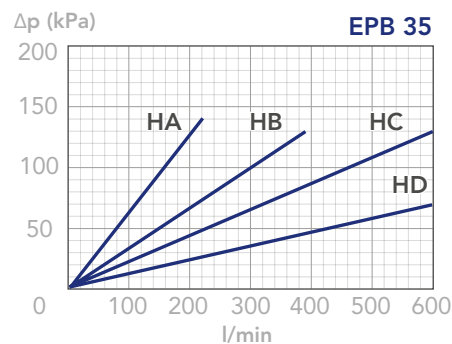
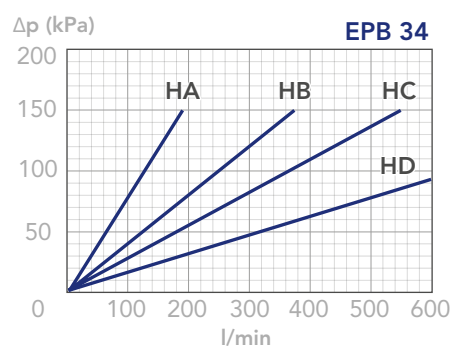
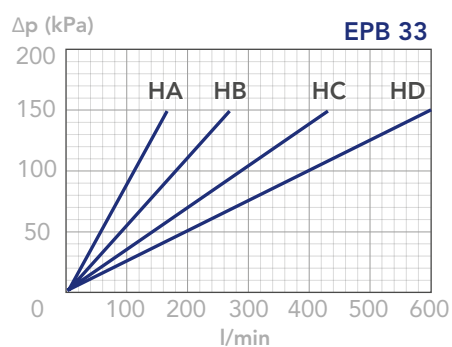


CLEAN FILTER ELEMENT PRESSURE DROP WITH H+ MEDIA
(depending both on the internal diameter of the element and on the filter media)



FPD

PRESSURE FILTERS



N.B.

All the curves have been obtained with mineral oil having a kinematic viscosity 30 cSt and specific gravity 0,86 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 FILTERS HYDRAULICS 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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