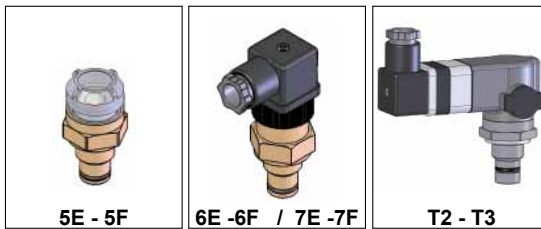


COMPO CARE
 Pressure Filters



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.

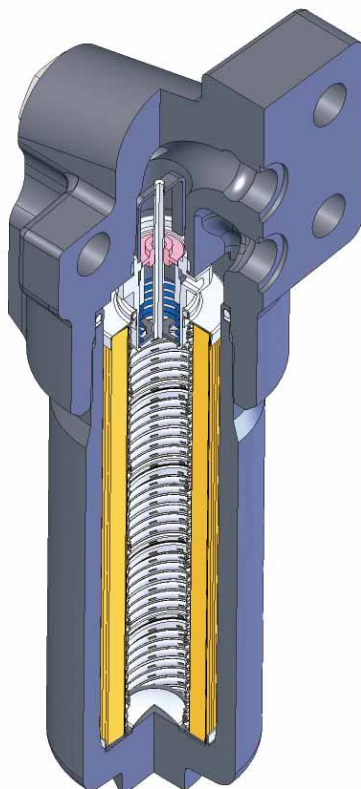


FILTER HOUSING
 The head by high performance cast iron and the bowl by extruded steel ensure the best fatigue resistance to the working pressures.

FILTER ELEMENT
 The filter element is manufactured with filter medias selected in the UFI laboratory and mechanically supported to maintain the highest performances 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 ASSEMBLING
 The CETOP head allows for modular assembly that is compact and leak free.



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):
 series standard: 2 MPa (20 bar)
 series H+: 21 Mpa (210 bar)

BYPASS VALVE

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

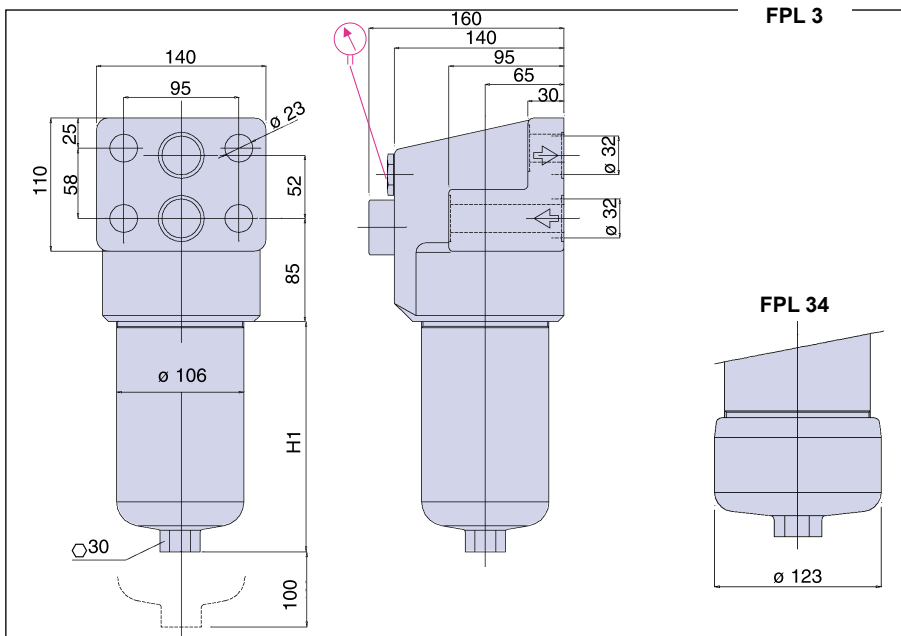
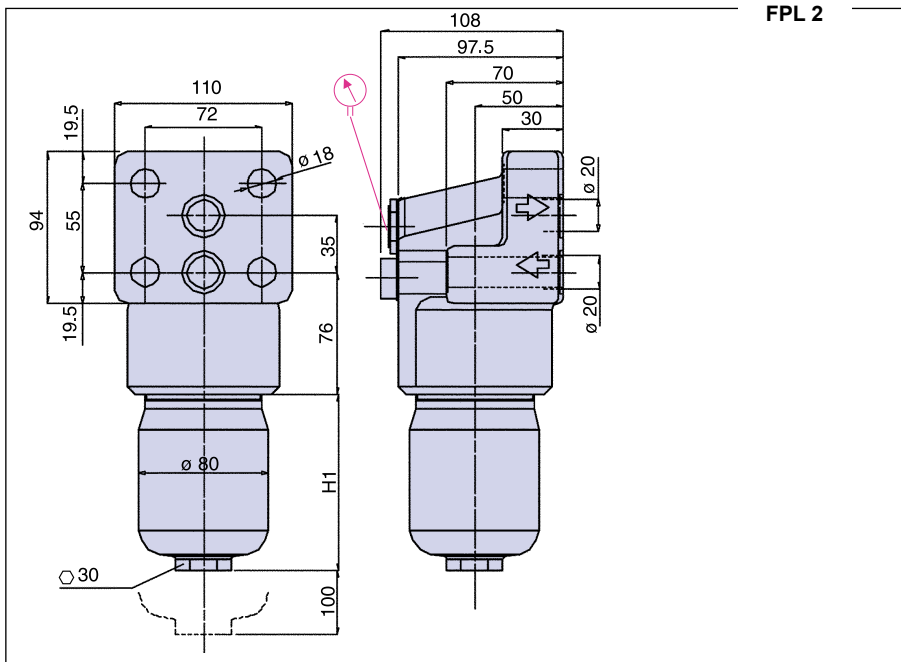
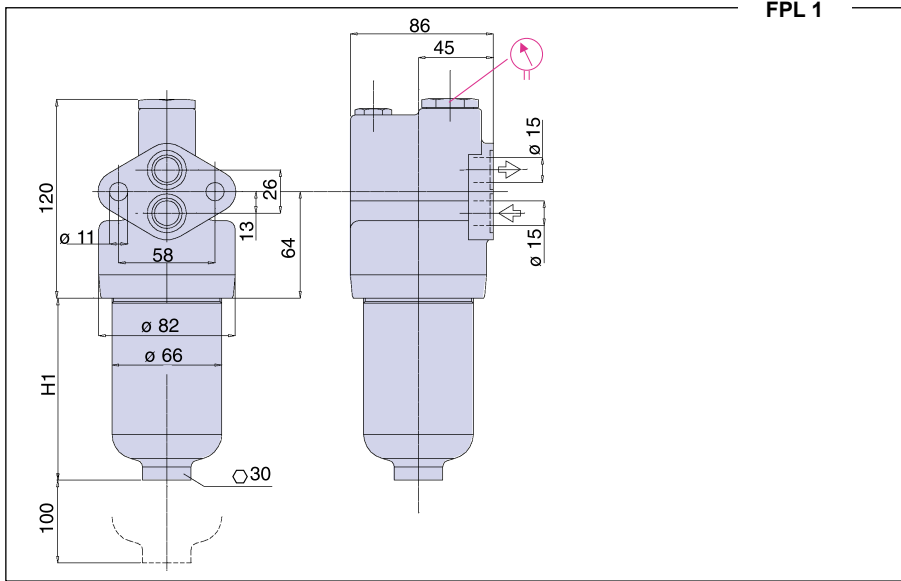
WORKING TEMPERATURE

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 DRAWINGS

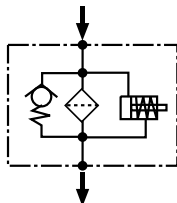
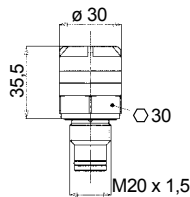


DIMENSIONS AND WEIGHTS

FILTER HOUSING		
	H1	kg
FPL11	79	4,4
FPL12	109	4,6
FPL13	209	5,2
FPL21	116	6,6
FPL22	207	8,2
FPL31	107	11,0
FPL32	199	13,9
FPL33	319	17,2
FPL34	420	22,0

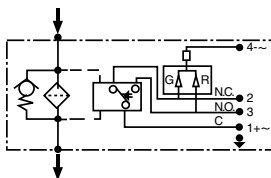
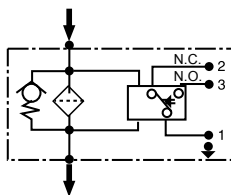
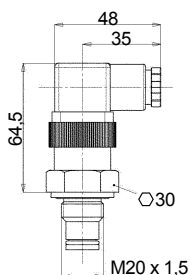
CLOGGING INDICATORS Differential

SERIES 5E - 5F



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

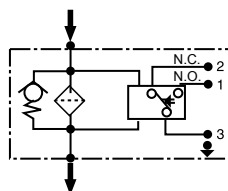
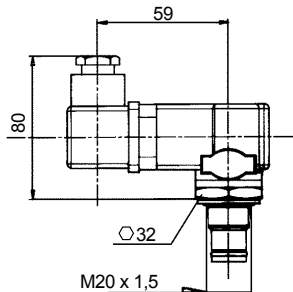
**SERIES 6E - 6F
& SERIES 7E - 7F**



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%.

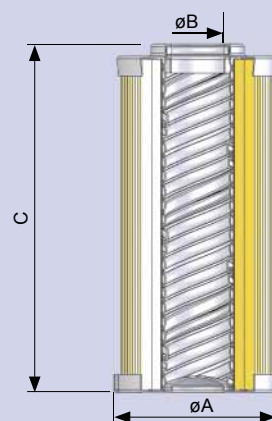
Connector according to DIN 43650.
Protection IP65 according to DIN 40050.
SPDT: C.A. 125-250 V
> max resistive or inductive load 1A;
C.C. 14-30 V
> max resistive or inductive load 4-3 A resp.

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

Recommended tightening torque 90 Nm

FILTER ELEMENT

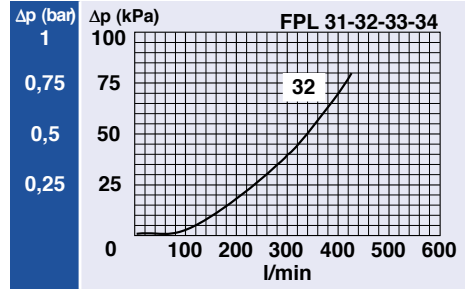
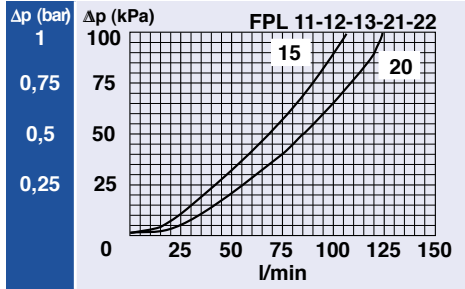
	A	B	C	kg media		Area (cm ²)		
				F+ & C+	H+	Media F+	Media H+	Media C+
EPB11	45	25	85	0,15	0,25	355	340	310
EPB12	45	25	116	0,20	0,55	500	475	435
EPB13	45	25	211	0,30	0,45	935	915	815
EPB21	52	23,5	115	0,25	0,40	975	975	780
EPB22	52	23,5	210	0,35	0,55	1.830	1.785	1.465
EPB31	78	42,5	118	0,40	0,70	2.000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

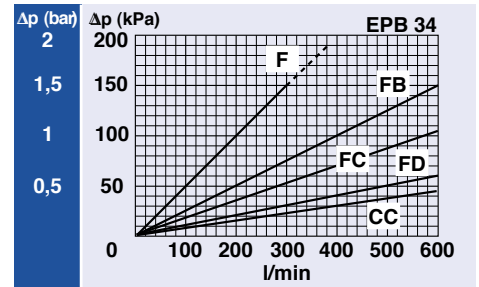
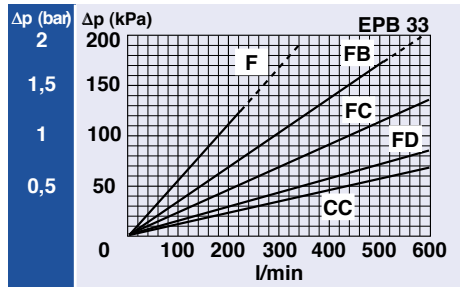
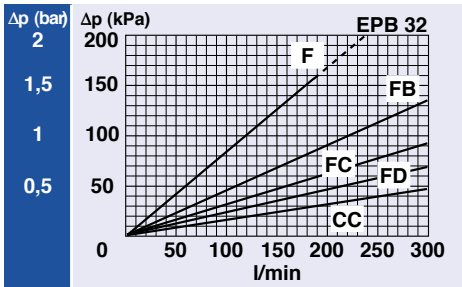
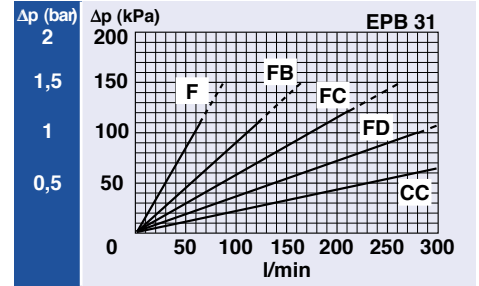
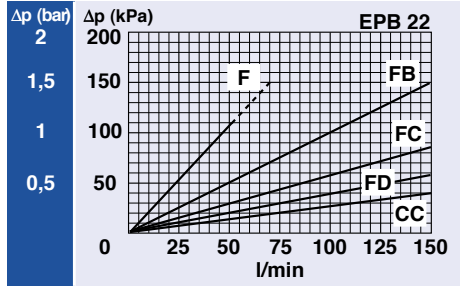
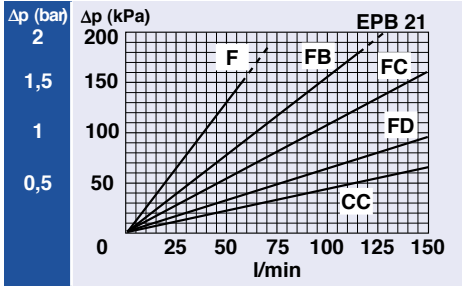
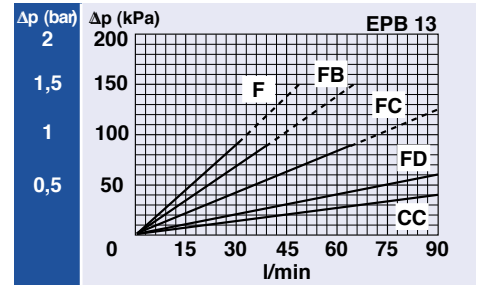
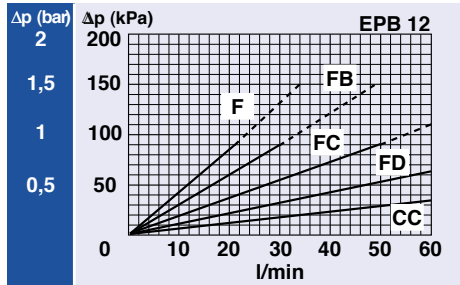
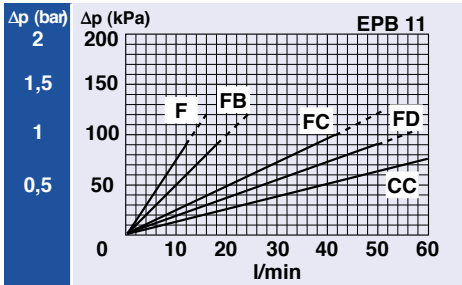
The "Assembly Pressure Drop (Δp)" is obtained by adding the pressure drop values of the Filter Housing and and of the Clean Filter Element corresponding to the considered Flow Rate and it must be lower than 120 kPa (1,2 bar).

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)



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.

PRESSURE DROP CURVES (Δp)

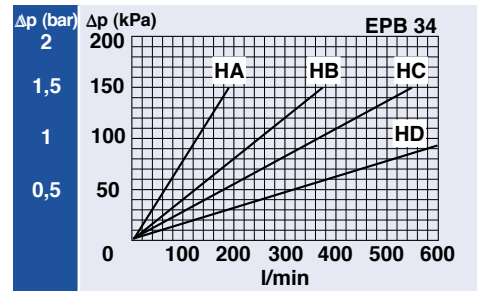
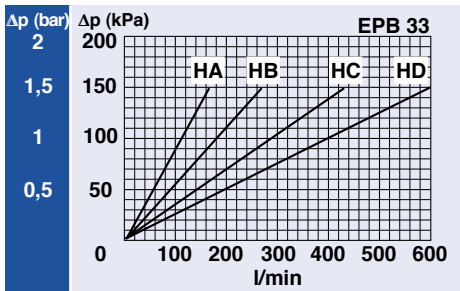
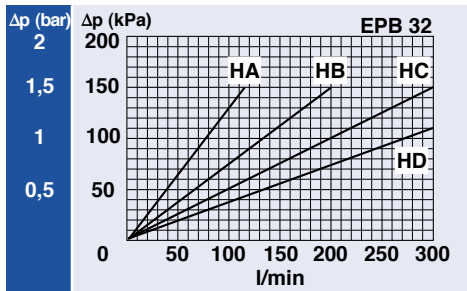
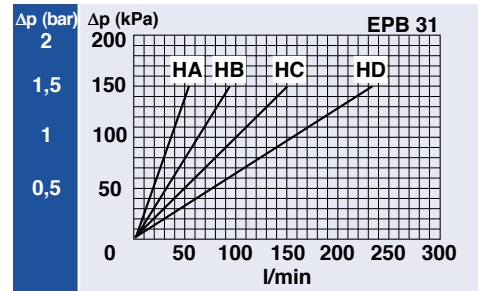
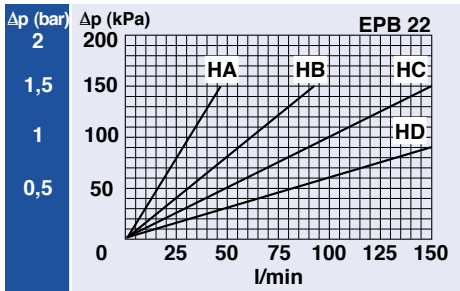
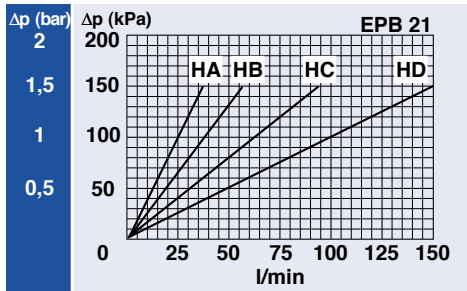
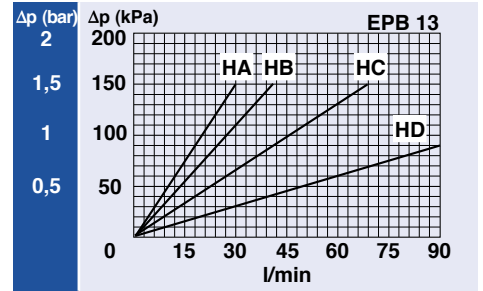
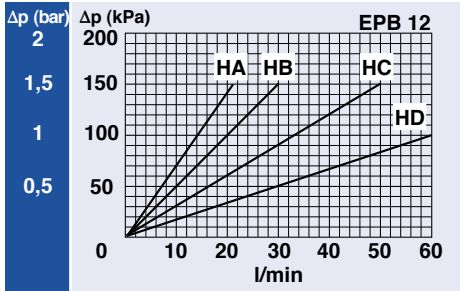
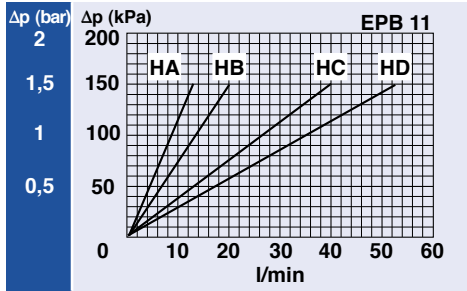
The “Assembly Pressure Drop (Δp)” is obtained by adding the pressure drop values of the Filter Housing and of the Clean Filter Element corresponding to the considered Flow Rate and it must be lower than 120 kPa (1,2 bar).

CLEAN FILTER ELEMENT PRESSURE DROP

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

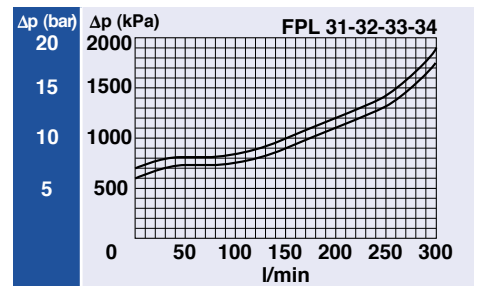
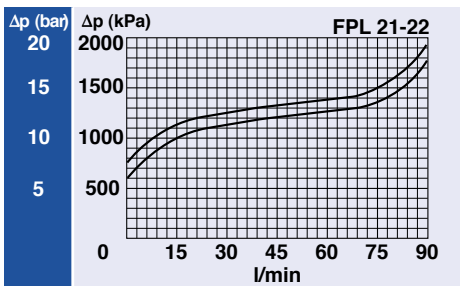
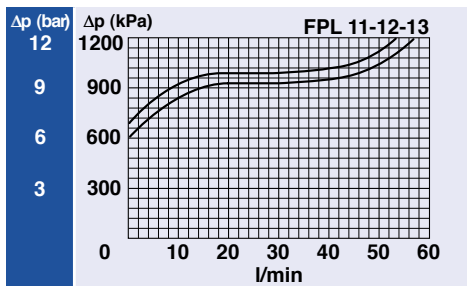
WITH H+ MEDIA

(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/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.

