



# CFP

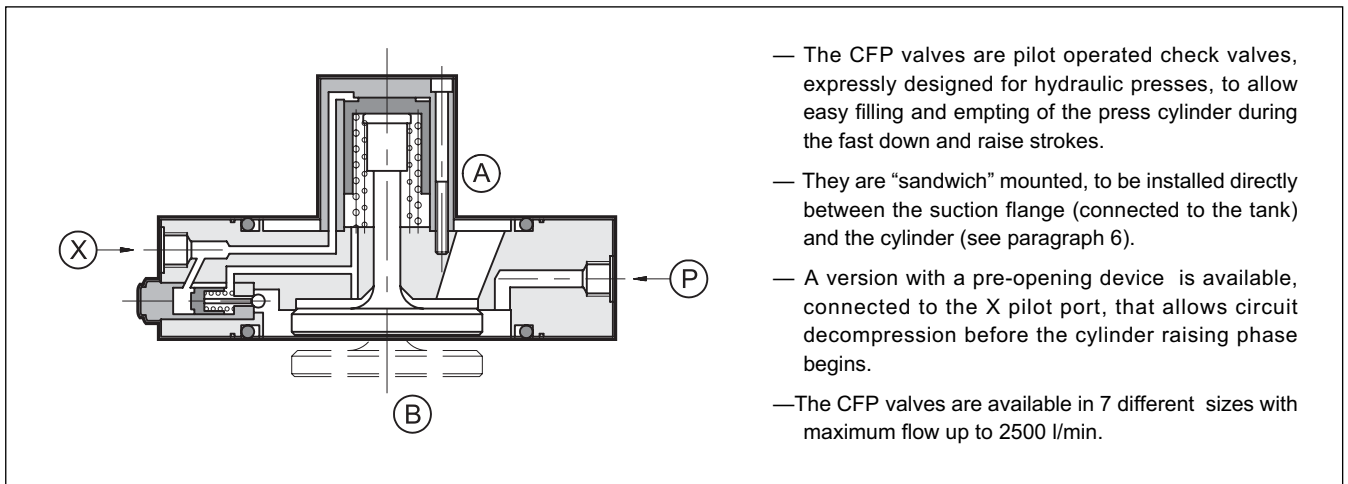
## FILLING VALVES SERIES 10

### SANDWICH MOUNTING

**p** max 350 bar

**Q** max (see table of performances)

### OPERATING PRINCIPLE

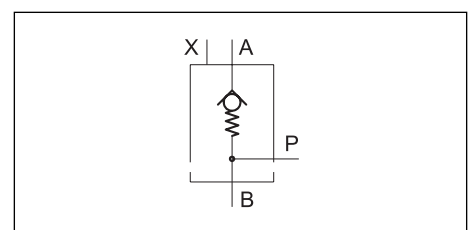


### PERFORMANCES

VALVE CODE		CFP-S032	CFP-S040	CFP-S050	CFP-S063	CFP-S080	CFP-S100	CFP-S125	
Nominal size		DN-32	DN-40	DN-50	DN-63	DN-80	DN-100	DN-125	
Maximum flow (with $\Delta p = 0,3$ bar and viscosity 36 cSt)		l/min	160	250	400	600	1000	1600	2500
Maximum pressure	Ports P and B	bar	350						
	Port X	bar	100						
	Port A	bar	16						
Cracking and pilot pressure			see par. 4						
Mass	kg	1,2	1,7	2,4	3,4	5,2	11,7	19,6	

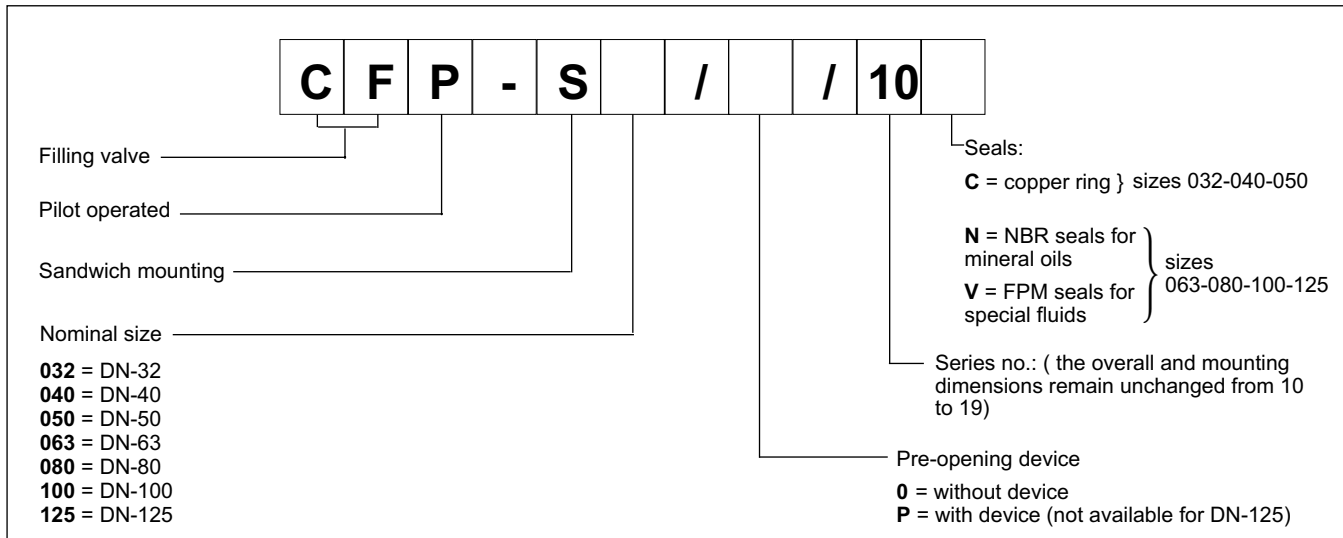
Ambient temperature range	°C	-20 / +50
Fluid temperature range	°C	-20 / +80
Fluid viscosity range	cSt	10 ÷ 400
Recommended viscosity	cSt	25
Fluid contamination degree	according to ISO 4406:1999 class 20/18/15	

### HYDRAULIC SYMBOL



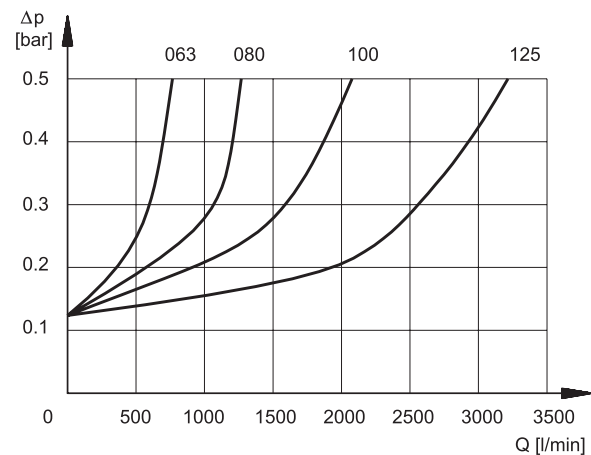
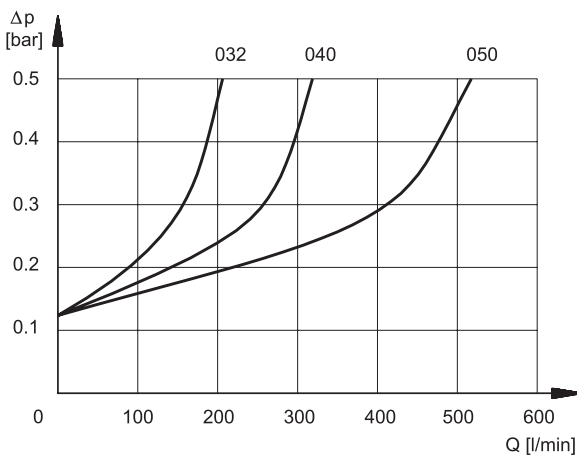


## 1 - IDENTIFICATION CODE



## 2 - CHARACTERISTIC CURVES (values measured with viscosity of 36 cSt at 50°C)

$\Delta p$  - Q characteristic relevant to the different valve sizes



## 3 - HYDRAULIC FLUIDS

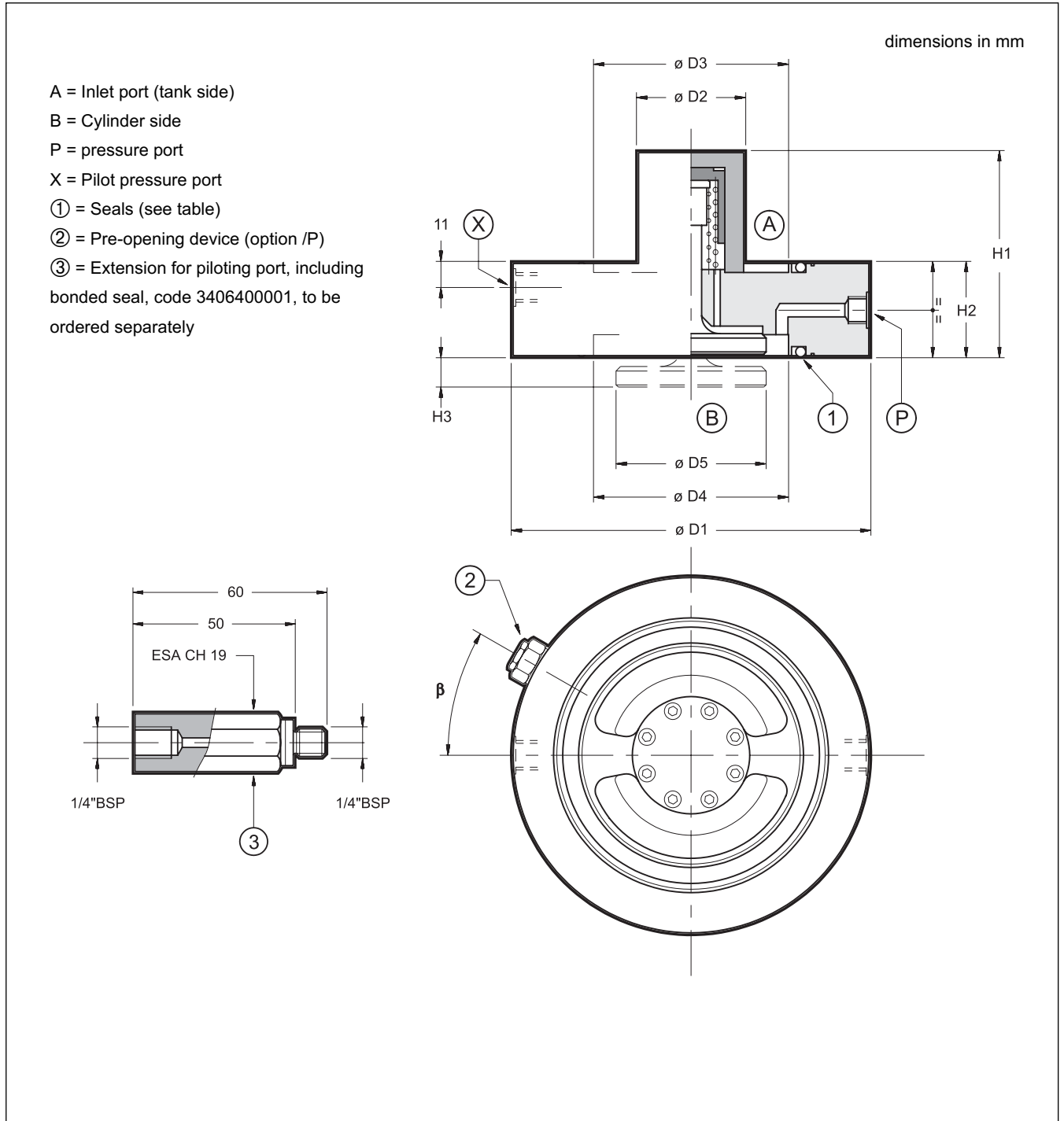
Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals. For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics. The fluid must be preserved in its physical and chemical characteristics.

## 4 - OPENING AND PILOTING PRESSURES

valve code	cracking pressure A - B [bar]	minimum pilot pressure [bar]	pilot pressure ratio: p (B) / p (X)	pre-opening pressure (option /P) [bar]
CFP-S032	0,13	8,0	3,6	$p(X) = 0,18 \times p(B) + 7$
CFP-S040			3,9	
CFP-S050			4,2	
CFP-S063			4,2	
CFP-S080			4,5	
CFP-S100			4,3	
CFP-S125			4,3	-



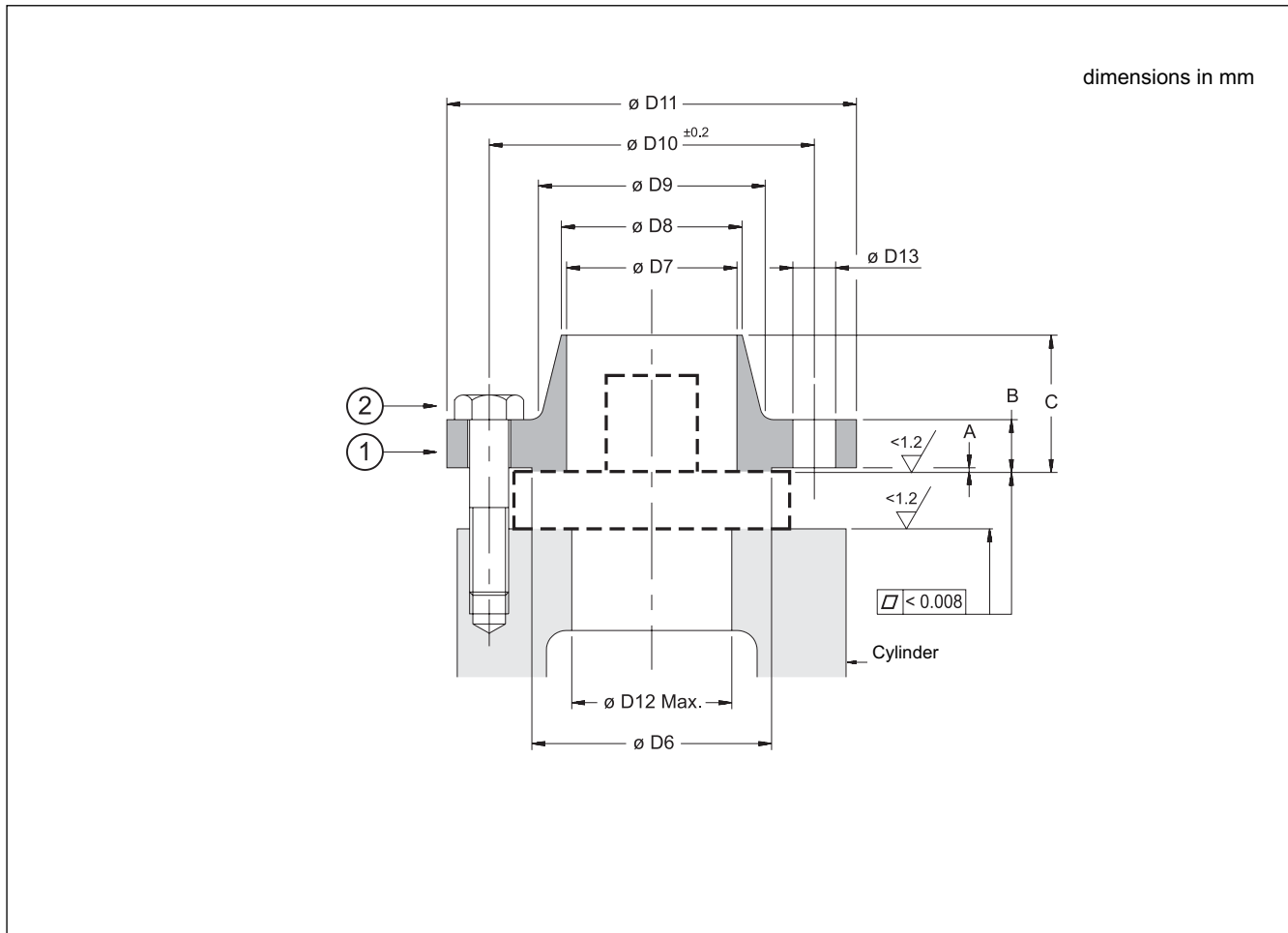
## 5 - OVERALL DIMENSIONS



	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]	D5 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	B	P	X	①	
<b>CFP-S032</b>	93	32	43	43	32	55	27	7,5	60°	1/4" BSP	1/4" BSP	Copper ring "A" shape DIN 7603	52x45x2
<b>CFP-S040</b>	108	39	54	57	41,5	60	28	10	45°				68x60x2
<b>CFP-S050</b>	128	43	73	73	53	72	29	12	45°				85x75,5x2
<b>CFP-S063</b>	143	50	87	87	63	83	34	14	45°			O-ring type	OR 6375 (94,62x5,34)
<b>CFP-S080</b>	169	56	107	107	80	97	38,5	17	45°				OR 6450 (113,70x5,34)
<b>CFP-S100</b>	212	69	130	130	100	118	44	22	45°	OR 8550 (139,10x6,99)			
<b>CFP-S125</b>	248	88	168	151	127	155	51	30	-	3/8" BSP	-	OR 8725 (183,50x6,99)	



**6 - INSTALLATION**



	① Suggested dimensions for connection flange (see NOTE 2)											max pressure on port B [bar]	②		
	D6 [mm]	D7 [mm]	D8 [mm] NOTE 1	D9 [mm]	D10 [mm]	D11 [mm]	D12 [mm]	D13 [mm]	A [mm]	B [mm]	C [mm]		Fastening bolts (type A 12.9)	Q.ty	Tightening torque [Nm]
<b>CFP-S032</b>	88	42	48,3	88	110	150	42	18	3	18	45	350	M16	4	285
<b>CFP-S040</b>	102	53	60,3	102	125	165	56	18	3	26	62		M16	4	285
<b>CFP-S050</b>	122	69	76,1	122	145	185	71	18	3	26	68		M16	8	285
<b>CFP-S063</b>	138	82	88,9	138	160	200	86	18	3	28	72		M16	8	285
<b>CFP-S080</b>	162	107	114,3	162	190	235	108	22	3	30	78		M20	8	560
<b>CFP-S100</b>	188	131	139,7	188	240	295	132	29	3	40	105		M27	8	1400
<b>CFP-S125</b>	218	160	168,3	218	280	338	168	32	3	44	115		M30	8	1900

**NOTE 1:** Calculated diameters for PN 16 - DIN 2448 steel pipes

**NOTE 2:** For application with standard connection flange type UNI2284 - UNI2285 - UNI2286, special bushings to fit on fastening bolts must be provided in order to ensure a correct valve mounting.

For information about the installation with UNI connector flange, please consult our technical department.

	<p><b>DIPLOMATIC OLEODINAMICA SpA</b> 20025 LEGNANO (MI) - P.le Bozzi, 1 / Via Edison Tel. 0331/472111-472236 - Fax 0331/548328</p>
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