



CFP

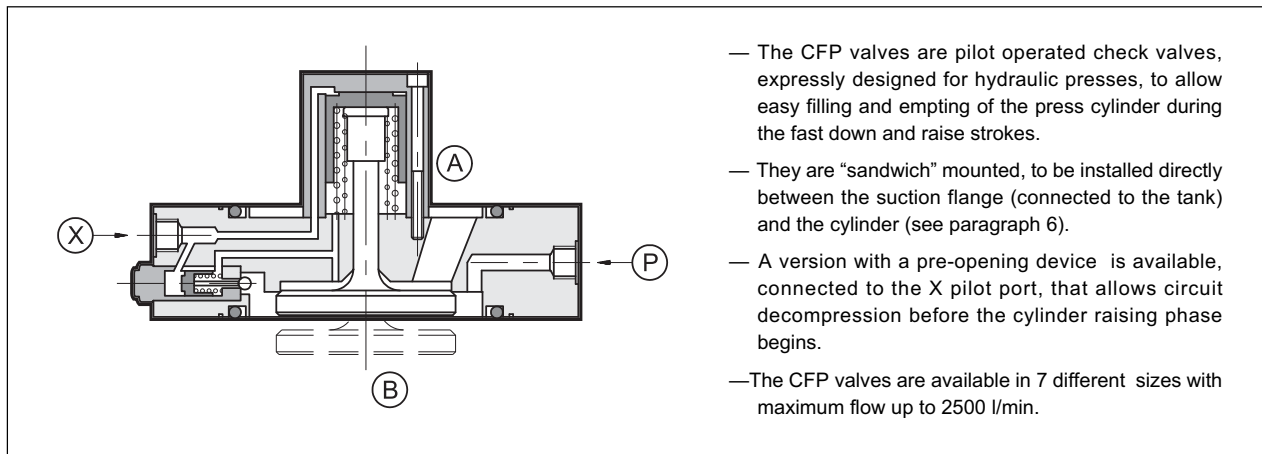
FILLING VALVES SERIES 10

SANDWICH MOUNTING

p max 350 bar

Q max (see table of performances)

OPERATING PRINCIPLE

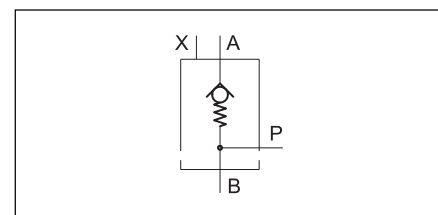


PERFORMANCES

| 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 |

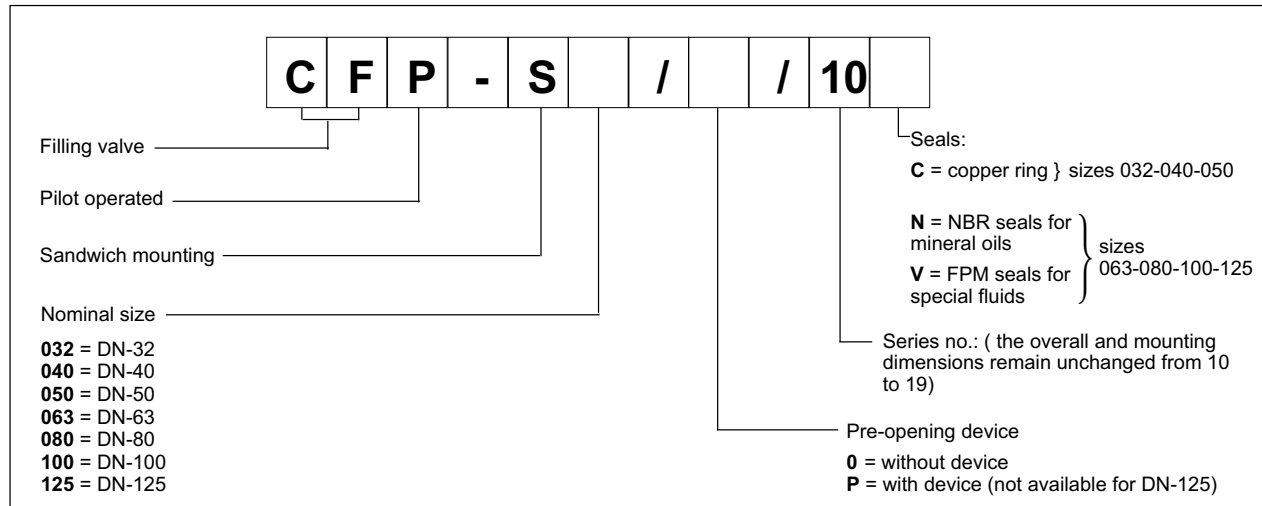
| | | |
|----------------------------|---|-----------|
| Ambient temperature range | °C | -20 / +50 |
| Fluid temperature range | °C | -20 / +80 |
| Fluid viscosity range | cSt | 10 + 400 |
| Recommended viscosity | cSt | 25 |
| Fluid contamination degree | according to ISO 4406:1999 class 20/18/15 |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

HYDRAULIC SYMBOL



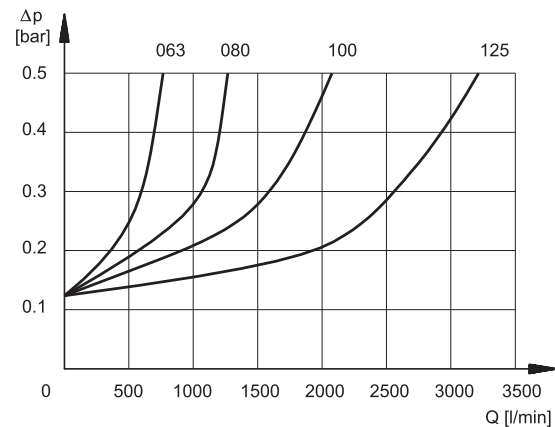
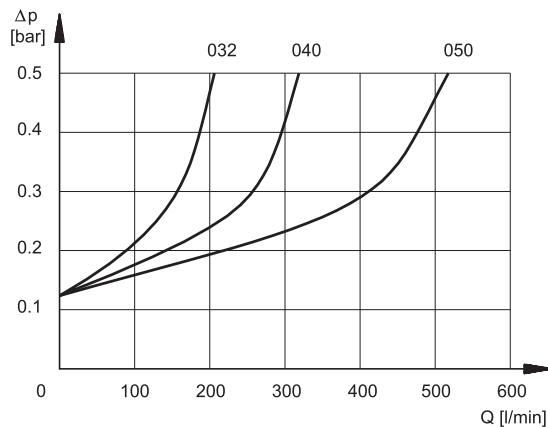


1 - IDENTIFICATION CODE



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

Δp - Q characteristic relevant to the different valve sizes



3 - HYDRAULIC FLUIDS

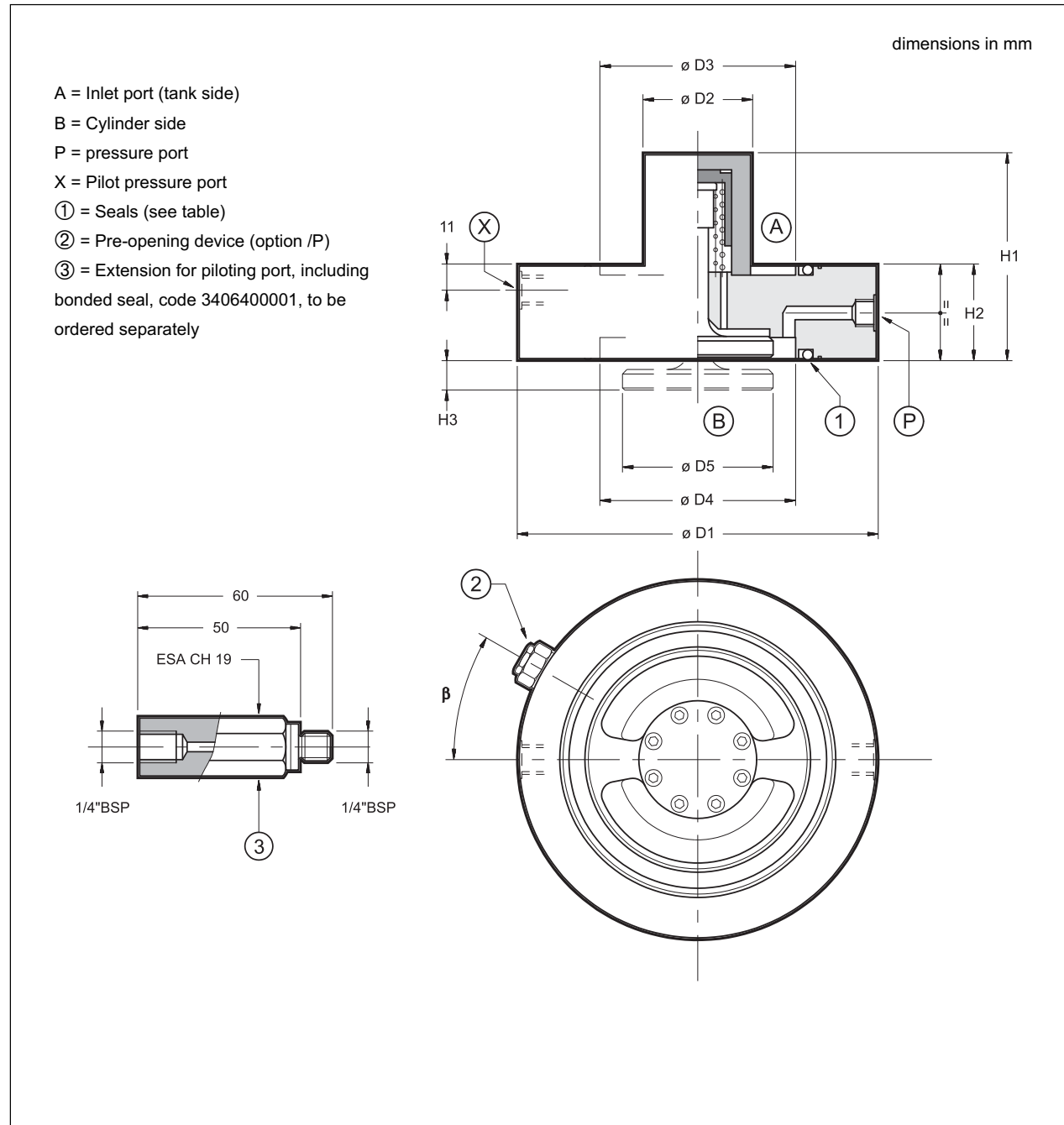
Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals. For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures 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 | - |



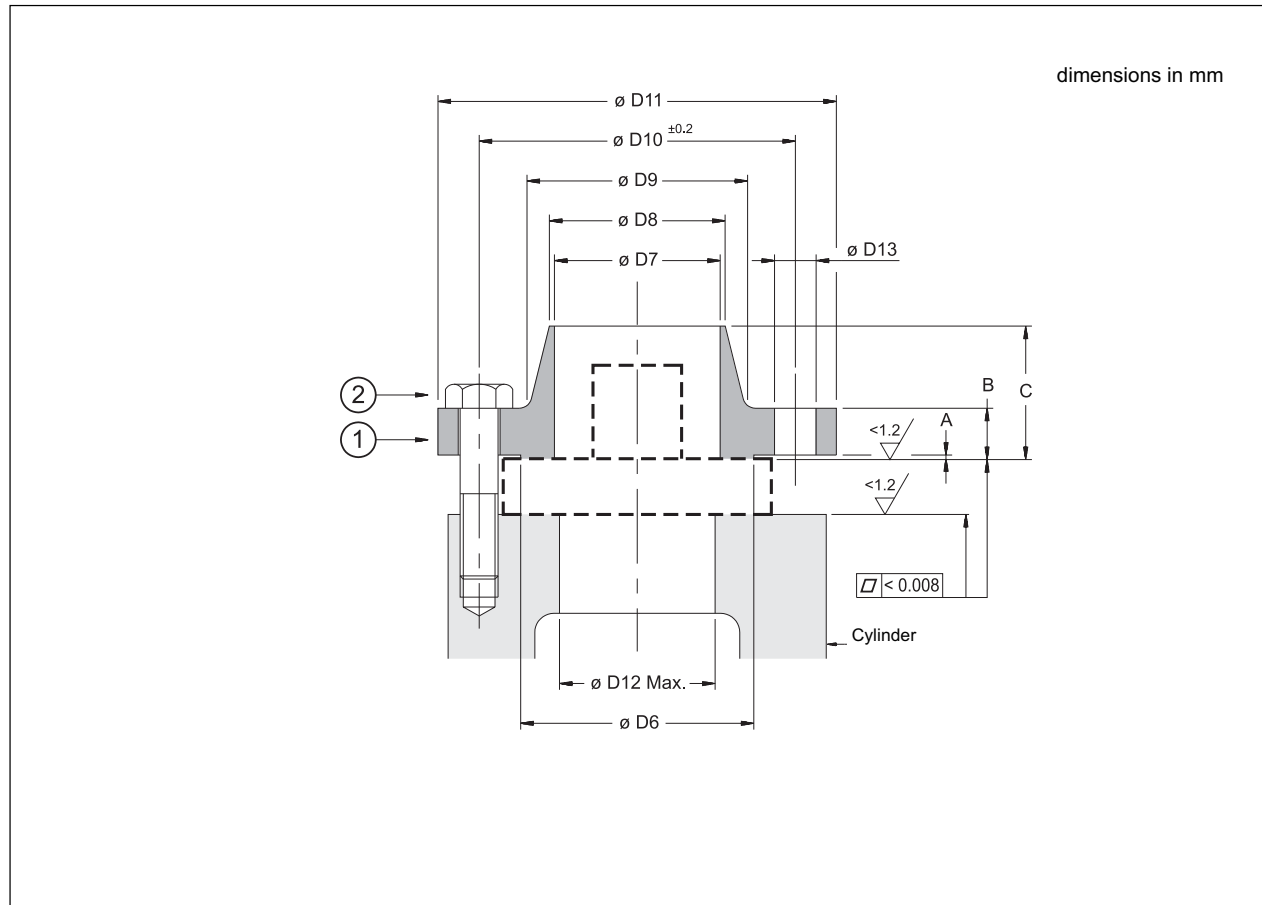
5 - OVERALL DIMENSIONS



| | D1 [mm] | D2 [mm] | D3 [mm] | D4 [mm] | D5 [mm] | H1 [mm] | H2 [mm] | H3 [mm] | B | P | X | ① | |
|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|-----|-----------------------|-------------|-----------------------------------|----------------------|
| CFP-S032 | 93 | 32 | 43 | 43 | 32 | 55 | 27 | 7,5 | 60° | 1/4" BSP | 1/4" BSP | Copper ring "A" shape DIN 7603 | 52x45x2 |
| CFP-S040 | 108 | 39 | 54 | 57 | 41,5 | 60 | 28 | 10 | 45° | | | | 68x60x2 |
| CFP-S050 | 128 | 43 | 73 | 73 | 53 | 72 | 29 | 12 | 45° | | | | 85x75,5x2 |
| CFP-S063 | 143 | 50 | 87 | 87 | 63 | 83 | 34 | 14 | 45° | | | O-ring type | OR 6375 (94,62x5,34) |
| CFP-S080 | 169 | 56 | 107 | 107 | 80 | 97 | 38,5 | 17 | 45° | OR 6450 (113,70x5,34) | | | |
| CFP-S100 | 212 | 69 | 130 | 130 | 100 | 118 | 44 | 22 | 45° | OR 8550 (139,10x6,99) | | | |
| CFP-S125 | 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] |
| CFP-S032 | 88 | 42 | 48,3 | 88 | 110 | 150 | 42 | 18 | 3 | 18 | 45 | 350 | M16 | 4 | 285 |
| CFP-S040 | 102 | 53 | 60,3 | 102 | 125 | 165 | 56 | 18 | 3 | 26 | 62 | | M16 | 4 | 285 |
| CFP-S050 | 122 | 69 | 76,1 | 122 | 145 | 185 | 71 | 18 | 3 | 26 | 68 | | M16 | 8 | 285 |
| CFP-S063 | 138 | 82 | 88,9 | 138 | 160 | 200 | 86 | 18 | 3 | 28 | 72 | | M16 | 8 | 285 |
| CFP-S080 | 162 | 107 | 114,3 | 162 | 190 | 235 | 108 | 22 | 3 | 30 | 78 | | M20 | 8 | 560 |
| CFP-S100 | 188 | 131 | 139,7 | 188 | 240 | 295 | 132 | 29 | 3 | 40 | 105 | | M27 | 8 | 1400 |
| CFP-S125 | 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>DIPLOMATIC OLEODINAMICA SpA 20025 LEGNANO (MI) - P.le Bozzi, 1 / Via Edison Tel. 0331/472111-472236 - Fax 0331/548328</p> |
|--|---|