



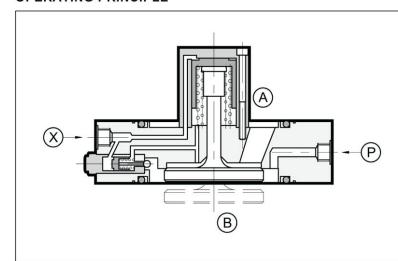


SANDWICH MOUNTING

p max 350 bar

Q max (see table of performances)

OPERATING PRINCIPLE



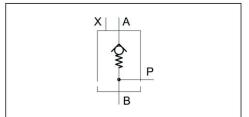
- The CFP valves are pilot operated check valves, expressly designed for hydraulic presses, to allow easy filling and empting of the press cylinder during the fast down and raise strokes.
- They are "sandwich" mounted, to be installed directly between the suction flange (connected to the tank) and the cylinder (see paragraph 6).
- A version with a pre-opening device is available, connected to the X pilot port, that allows circuit decompression before the cylinder raising phase begins.
- —The CFP valves are available in 7 different sizes with maximum flow up to 2500 l/min.

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 Δp =0,3 bar and viscosity 36 cSt) | | l/min | 160 | 250 | 400 | 600 | 1000 | 1600 | 2500 | |
| | Ports P and B | bar | 350 | | | | | | | |
| Maximum pressure | 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 | | |

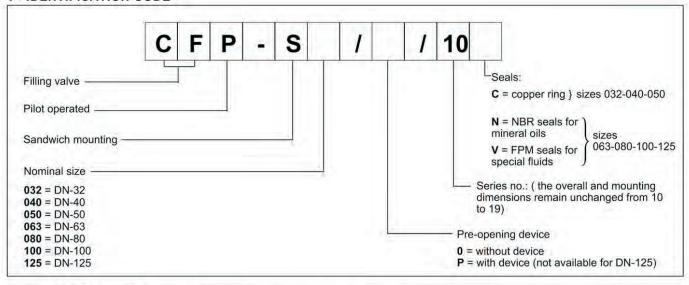
Ambient temperature range °C -20 / +50 HYDRAULIC SYMBOL

| The second terriporates of terrigo | | | | | | |
|------------------------------------|----------------------|---|--|--|--|--|
| Fluid temperature range | °C | -20 / +80 | | | | |
| Fluid viscosity range | cSt | 10 ÷ 400 | | | | |
| Recommended viscosity | cSt 25 | | | | | |
| Fluid contamination degree | according to ISO 440 | according to ISO 4406:1999 class 20/18/15 | | | | |



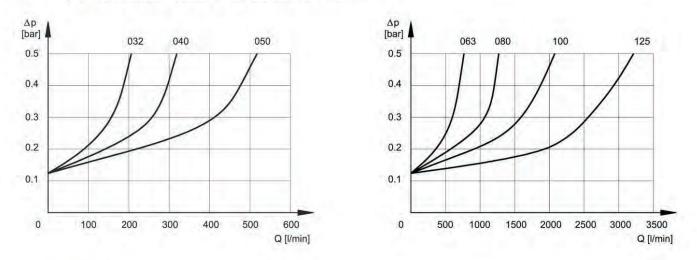


1 - IDENTIFICATION CODE



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

Δp - Q characteristic relevant to the different valve sizes



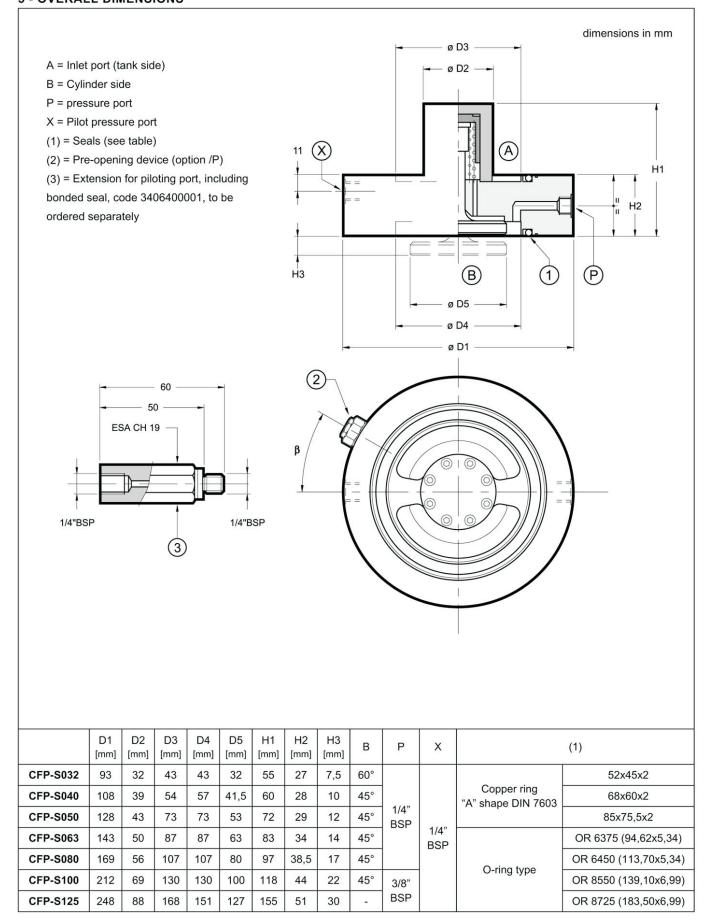
3 - HYDRAULIC FLUIDS

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

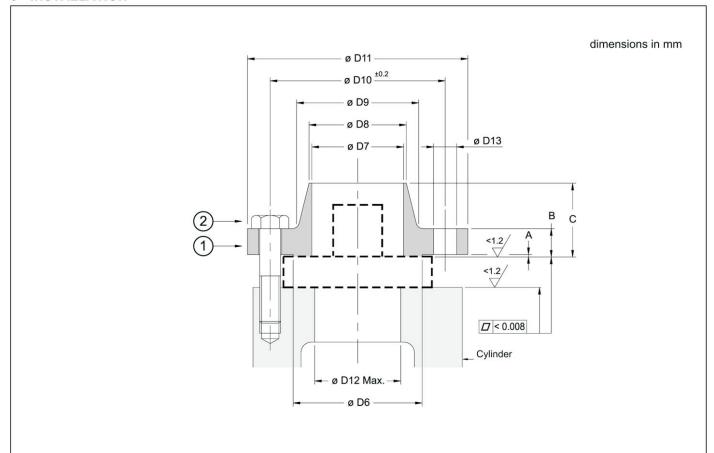
| valve code | cracking pressure A - B [bar] | minimum pilot pressure [bar] | pilot pressure ratio: p (B) / p (X) | pre-opening pressure (option /P) [bar] | | | |
|---------------|-------------------------------------|------------------------------------|--|--|--|--|--|
| CFP-S032 | 1 44 - 1 | | 3,6 | | | | |
| CFP-S040 | | | 3,9 | p(X) = 0,18 x p(B) +7 | | | |
| CFP-S050 | | | 4,2 | | | | |
| CFP-S063 | 0,13 | 8,0 | 4,2 | | | | |
| CFP-S080 | | | 4,5 | | | | |
| CFP-S100 | | | 4,3 | | | | |
| CFP-S125 | | | 4,3 | | | | |

5 - OVERALL DIMENSIONS





6 - INSTALLATION



| | (1) Suggested dimensions for connection flange (see NOTE 2) | | | | | | | | | max pressure | (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] | on port B [bar] | 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 | | 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 | 350 | 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 | 1 | 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.