

CVM5

DIRECT CHECK VALVE

SERIES 10

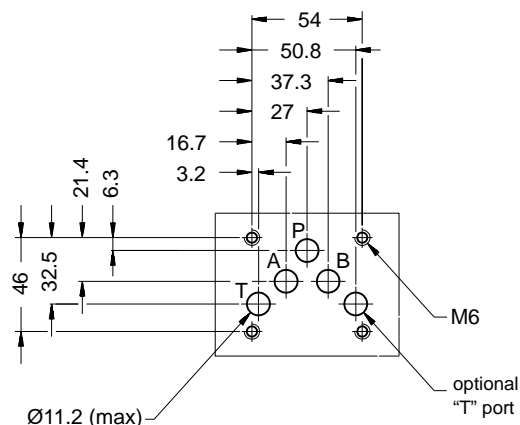


MODULAR VERSION ISO 4401-05

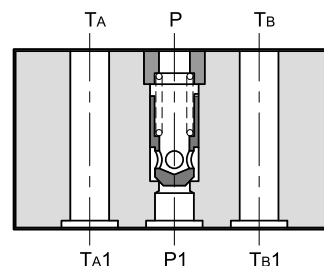
p max **350** bar
Q max **100** l/min

MOUNTING INTERFACE

ISO 4401-05-04-0-05
(CETOP 4.2-4-05-350)



OPERATING PRINCIPLE



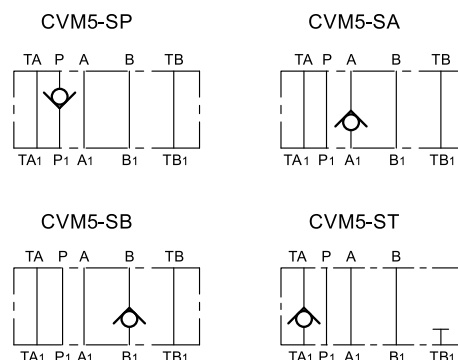
- The CVM5 valve is a check valve made as a modular version with mounting surface according to the ISO 4401 standards.
- Its function is to avoid oil backflows and self-emptying of lines, or to generate backpressures.
- It can be assembled quickly under the ISO 4401-05 directional solenoid valves without use of pipes, using suitable tie-rods or bolts.
- It is available in four versions: with check valve in line P, in line T, in line A or in line B.

PERFORMANCES

(measured with mineral oil of viscosity 36 cSt at 50°C)

Maximum operating pressure	bar	350
Check valve cracking pressure	bar	0.5 - 8
Maximum flow rate in the controlled lines and in the free lines	l/min	100
Ambient temperature range	°C	-20 / +60
Fluid temperature range	°C	-20 / +80
Fluid viscosity range	cSt	10 ÷ 400
Degree of fluid contamination	According to ISO 4406:1999 class 20/18/15	
Recommended viscosity	cSt	25
Mass	kg	2.3

HYDRAULIC SYMBOLS

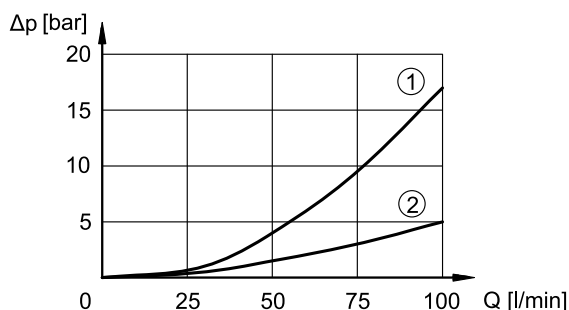


1 - IDENTIFICATION CODE

C	V	M	5	-			/ 10	
Check valve	Modular version	ISO 4401-05 size					Seals: N = NBR seals for mineral oil (standard) V = FPM seals for special fluids	Series No. (the overall and mounting dimensions remain unchanged from 10 to 19)
SP = check valve on line P SA = check valve on line A SB = check valve on line B ST = check valve on line T							Cracking pressure: 0.5 = 0,5 bar 8 = 8 bar	

2 - CHARACTERISTIC CURVES

(values obtained with viscosity of 36 cSt at 50°C)



1) pressure drops of controlled lines

2) pressure drops of free lines

NOTE: Add the valve cracking pressure to the values shown by the curve 1 of the diagram

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 - OVERALL AND MOUNTING DIMENSIONS

	<p>dimensions in mm</p> <p>49.8</p> <p>72</p> <p>90</p> <p>18</p> <p>12</p> <p>70</p>
1	Mounting surface with sealing rings: 5 OR type 2050 (12.42x1.78) - 90 Shore
2	Only for CVM5-ST: TB non-through hole