

CHM2

PILOT OPERATED CHECK VALVE SERIES 10



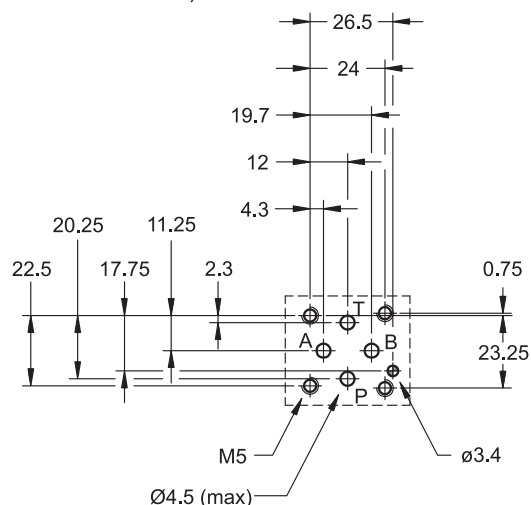
MODULAR VERSION ISO 4401-02

p max 320 bar

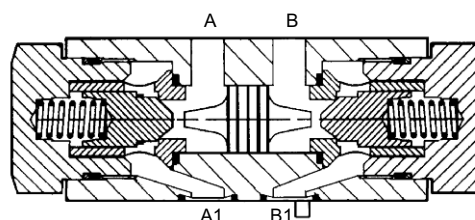
Q max 30 l/min

MOUNTING SURFACE

ISO 4401-02-01-0-05
(CETOP 4.2-4-R02-320)



OPERATING PRINCIPLE



— The CHM2 valve is a hydraulically released check valve with spring closing and with cone on edge seals; the mounting surface is according to the ISO 4401 standards.

— Its use allows:

- prevention of flow in one direction;
- flow in the same direction, if opened by a pilot pressure;
- free flow in the other direction.

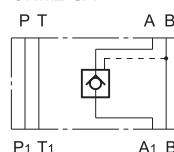
— The CHM2 valves are always mounted downstream of the DL2 type directional solenoid valves (see cat. 41 100) and can be assembled with all other ISO 4401-02) valves.

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

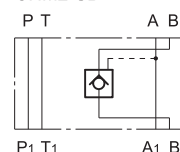
Maximum operating pressure	bar	320
Maximum flow rate	l/min	30
Ratio between pressure of the sealed chamber and the piloting pressure		3.5:1
Opening pressure	bar	2
Ambient temperature range	°C	-20 / +60
Fluid temperature range	°C	-20 / +80
Fluid viscosity range	cSt	10 ÷ 400
Fluid contamination degree	According to ISO 4406:1999 class 20/18/15	
Recommended viscosity	cSt	25
Mass	kg	0.75

HYDRAULIC SYMBOLS

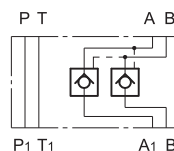
CHM2-SA



CHM2-SB



CHM2-D



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Астрахань (8512)99-46-04
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Брянск (4832)59-03-52
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Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

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Череповец (8202)49-02-64
Ярославль (4852)69-52-93

1 - IDENTIFICATION CODE

C	H	M	2	-		/	10	
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Pilot operated check valve Modular version
ISO 4401-02 size

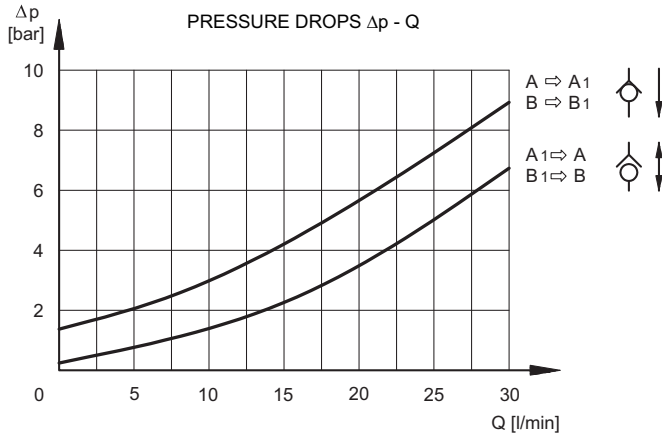
Seals:
N = Seals in NBR for mineral oils (**standard**)
V = Seals in FPM for special fluids

Series No. (the overall and mounting dimensions remain unchanged from 10 to 19)

D: seal on lines A e B of the actuator
SA: seal on line A of the actuator
SB: seal on line B of the actuator

2 - CHARACTERISTIC CURVES

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



3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. With this kind of fluids, use NBR seals type (code N). With HFDR fluids type (phosphate esters) use FPM seals (code V).

For the use of other fluid types 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 itself and of the seals characteristics.

The fluid must be preserved in its physical and chemical characteristics.

4 - OVERALL AND MOUNTING DIMENSIONS

dimensions in mm

1	Mounting surface with sealing rings: N. 4 OR type 2025 (6.07x1.78) 90 Shore
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