DUPLOMATIC
HYDRAULICS

CHM7

PILOT OPERATED CHECK VALVE

SERIES 10

MODULAR VERSION

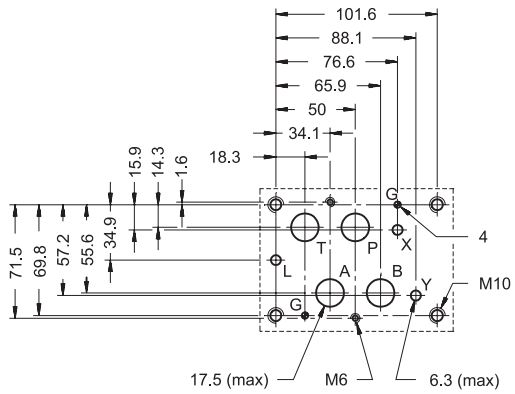
CETOP 07

p max **350** bar

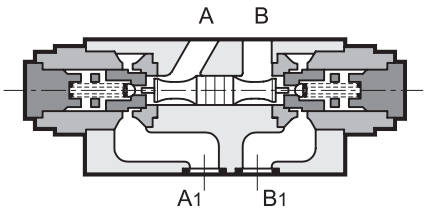
Q max **250** l/min

MOUNTING INTERFACE

CETOP 4.2-4-07



OPERATING PRINCIPLE



— This is a hydraulically released check valve with spring closing and with cone on edge seals, the mounting surface is according to the CETOP and ISO 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 CHM7 valves are always mounted downstream of the DSP7 type directional solenoid valves (see catalogue 41 420) and can be assembled with all other CETOP 07 valves.

CONFIGURATIONS (see Hydraulic symbols table)

— Configuration “SA” -”SB”: is used to lock the actuator in one direction.

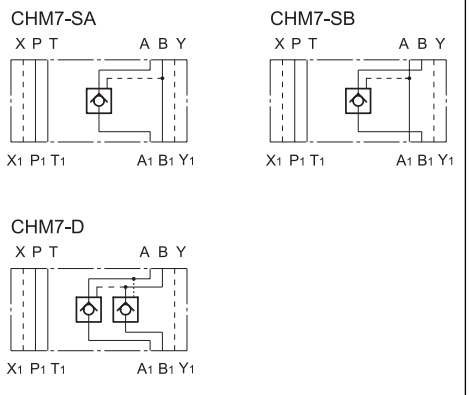
— Configuration “D”: is used to lock the position of the actuator in both directions.

The opening of the valve is gradual and occurs with the preopening of the main shutter that permits decompression of the plant.

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

Maximum operating pressure	bar	350
Maximum flow rate	l/min	250
Ratio between the pressure of the sealed chambers and the piloting pressure		13 : 1
Opening pressure	bar	2
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 NAS 1638 class 10	
Mass: CHM7-S*	kg	7,2
CHM7-D	kg	7,3

HYDRAULIC SYMBOLS



1 - IDENTIFICATION CODE

C	H	M	7	-		/	10	

Flow control valve

Modular version

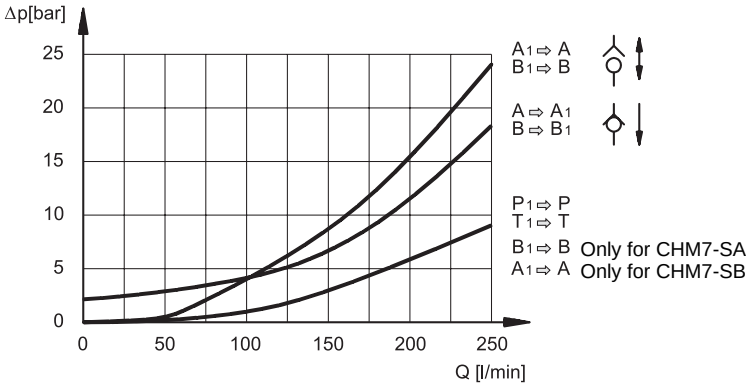
CETOP 07 size

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

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

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

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

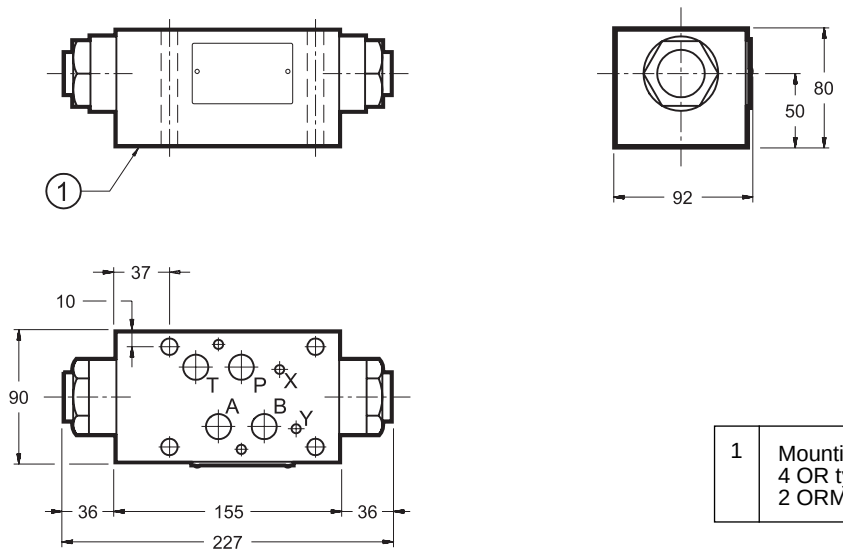


3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids, with the addition of suitable anti-frothing and anti-oxidizing agents.
For the use of other types (water glycol, phosphate esters and others), please consult our technical department.

4 - OVERALL AND MOUNTING DIMENSIONS

dimensions in mm



1	Mounting surface with sealing rings: 4 OR type 3087 2 ORM - 0100 - 20

DUPLOMATIC HYDRAULICS

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