

QTM2

FLOW RESTRICTOR VALVE

SERIES 10

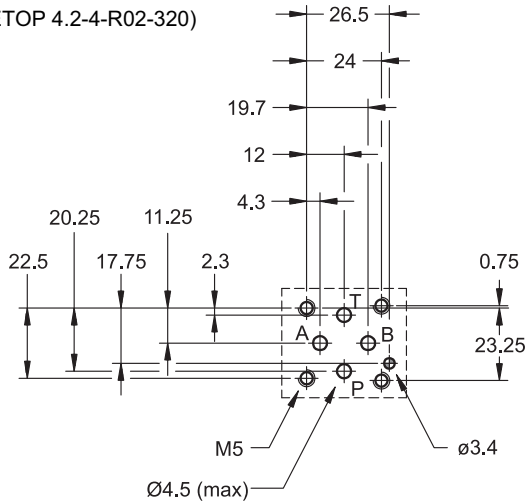


MODULAR VERSION ISO 4401-02

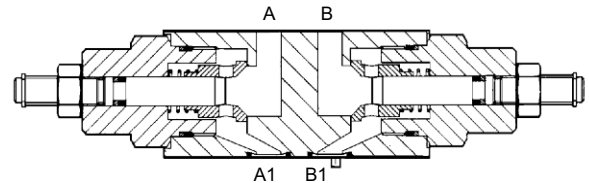
p max 320 bar
Q max 30 l/min

MOUNTING SURFACE

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



OPERATING PRINCIPLE

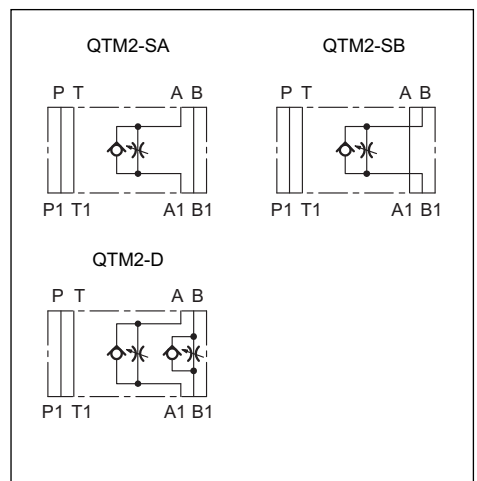


- The QTM2 valve is a flow restrictor valve with built in check valve for reverse free flow, made as a modular version with mounting surface according to the ISO 4401 standards.
- It can be assembled with all ISO 4401-02 modular valves without use of pipes, using suitable tie-rods or bolts.
- It is supplied with countersunk hex adjustment screw and locking nut. Rotate anticlockwise to increase the flow rate.

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

Maximum operating pressure	bar	320
Maximum flow rate	l/min	30
Ambient temperature range	°C	-20 / +60
Check valve opening pressure	bar	0,4
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	0,8

HYDRAULIC SYMBOLS



Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
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Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

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Россия (495)268-04-70

Казахстан (772)734-952-31

<https://diplomatic.nt-rt.ru/> || dcw@nt-rt.ru

1 - IDENTIFICATION CODE

Q

T

M

2

-

/

10

Flow restrictor valve

Modular version

ISO 4401-02 size

Seals:

N = Seals in NBR for mineral oils (**standard**)

V = Seals in FPM for special fluids

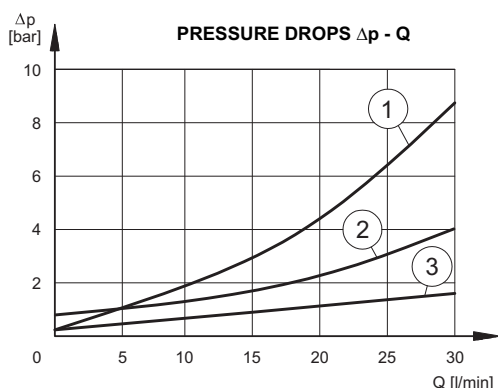
Series No. (the overall and mounting dimensions remain unchanged from 10 to 19)

D: meter out control on lines A and B

SA: meter out control on line A

SB: meter out control on line B

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



Typical Δp - Q curves obtained with QTM2-D valve, with throttling axis at full retraction.

- 1) pressure drops $A_1 - A$ ($B_1 - B$)
- 2) pressure drops $A - A_1$ ($B - B_1$)
- 3) pressure drops through the free ports

3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals (code N). 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

	1	Locking nut: spanner 13
	2	Socket hex adjustment screw: spanner 3 Rotate anticlockwise to increase the flow
	3	Mounting surface with sealing rings: N. 4 OR type 2031 (7.66x1.78)
adjustment screw on QTM2-SA		
dimensions in mm		

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