

MVR-RS/P

DIRECT CHECK VALVE WITH FLOW RESTRICTOR

SERIES 50

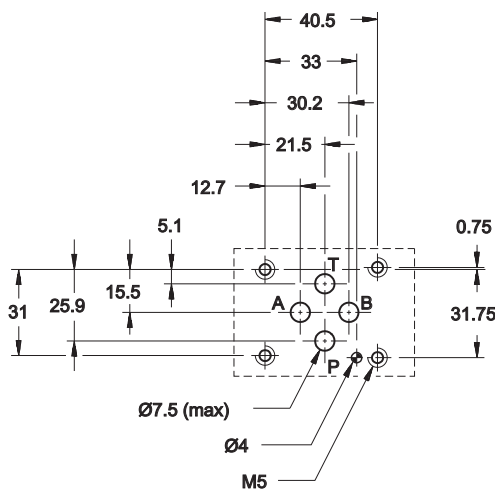


MODULAR VERSION ISO 4401-03

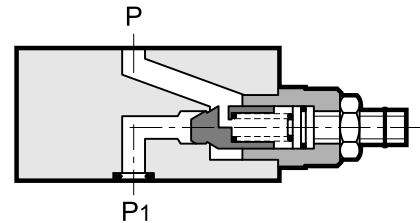
p max 350 bar
Q max (see table of performances)

MOUNTING INTERFACE

ISO 4401-03-02-0-05
(CETOP 4.2-4-03-350)



OPERATING PRINCIPLE

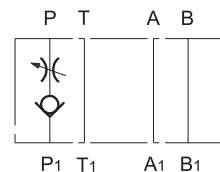


- The MVR-RS/P valve is a check valve that incorporates also the function of flow restriction.
- It is made as a modular version with mounting surface according to the ISO 4401-03 standards.
- It can be quickly assembled under the ISO 4401-03 directional solenoid valves and modular valves, without use of pipes and using suitable tie-rods or bolts.
- It is used when it is necessary to control the flow in a direction and to avoid backflows or the self-emptying of the lines in the opposite direction.
- Control of the flow is obtained with a socket hex screw with locking nut.

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

Maximum operating pressure	bar	350
Check valve cracking pressure		1
Maximum flow rate in controlled lines	l/min	50
Maximum flow rate in the free lines		75
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	1,1

HYDRAULIC SYMBOL



Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
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Ставрополь (8652)20-65-13

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Казахстан (772)734-952-31

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M V R - R S / P / 50 /

ISO 4401-03 size

Modular version

Check valve

Flow restrictor valve on line P

Check valve on line P

Seals: omit for mineral oils
V = viton for special fluids

Series No. (the overall and mounting dimensions remain unchanged from 50 to 59)

1) pressure drops $P_1 \rightarrow P$
 2) pressure drops on free lines (ex. $A \rightarrow A_1$)

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.

Technical drawing of the 2037 flow control valve showing three views: front, side, and top. The front view shows a hexagonal mounting flange with dimensions 48mm width, 40mm height, and 24mm central hole diameter. The side view shows the valve body with dimensions 7.5mm and 14mm. The top view shows the valve body with dimensions 80.5mm and 123mm. Callouts 1, 2, and 3 point to the locking nut, socket hex adjustment screw, and mounting surface respectively.

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