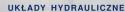




HYDRAULICKÉ SYSTÉMY



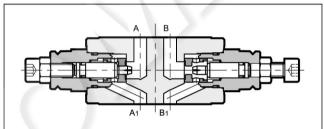


MERS FLOW RESTRICTOR VALVE **SERIES 50**

MODULAR VERSION ISO 4401-03

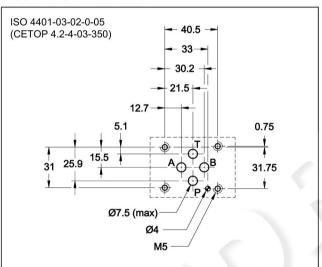
p max **350** bar **Q** max (see table of performances)

OPERATING PRINCIPLE



- This is a non-compensated flow control valve with a check valve for reverse free flow. It is made in modular version and with mounting surface according to the ISO 4401 standards; it can be assembled quickly without use of pipes, but using only suitable tie-rods or bolts, thus forming compact modular groups.
- It is also available as a reversible valve (G* versions). The control takes place as meter-in or meter-out, depending on the way in which the valve is facing the OR subplate.
- The built-it check valve allows the reverse free flow (cracking pressure of 0,5 bar).
- It is supplied with a hexagon socket adjustment screw.

MOUNTING INTERFACE



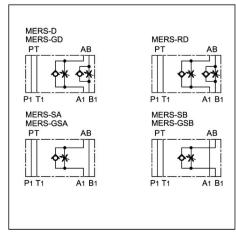
CONFIGURATIONS (see hydraulic symbols table)

- "D": independently controls the output flow from the two actuator chambers.
- "RD": independently controls the inlet flow in the two actuator chambers.
- "SA": controls the output flow from the actuator on line A.
- "SB": controls the output flow from the actuator on line B.
- "G*": reversible valve. See par. 1.

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

Maximum operating pressure Check valve cracking pressure	bar	350 0,5
Maximum flow rate in the controlled lines Maximum flow rate in the free lines Min. controlled flowrate with Δp 10 bar	l/min	50 75 ≤0,060
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	1,3

HYDRAULIC SYMBOLS



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A1→ A only for MERS-*B

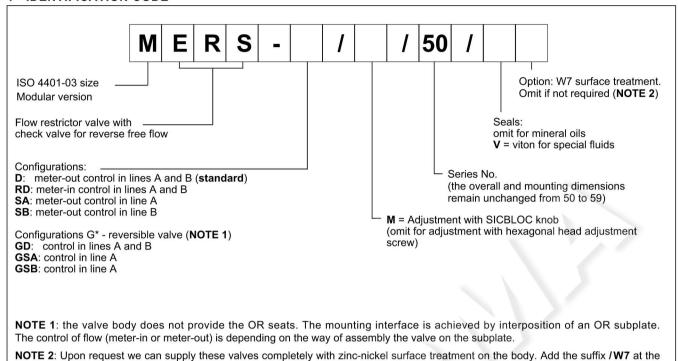
B1→B only for MERS-*A

T 1→ T

75

Q [l/min]

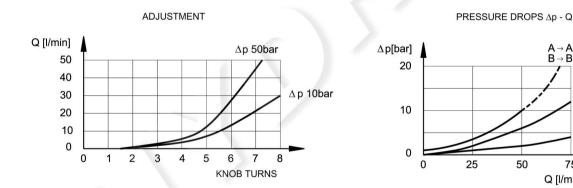
1 - IDENTIFICATION CODE



2 - CHARACTERISTIC CURVES

end of the identification code.

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



3 - HYDRAULIC FLUIDS

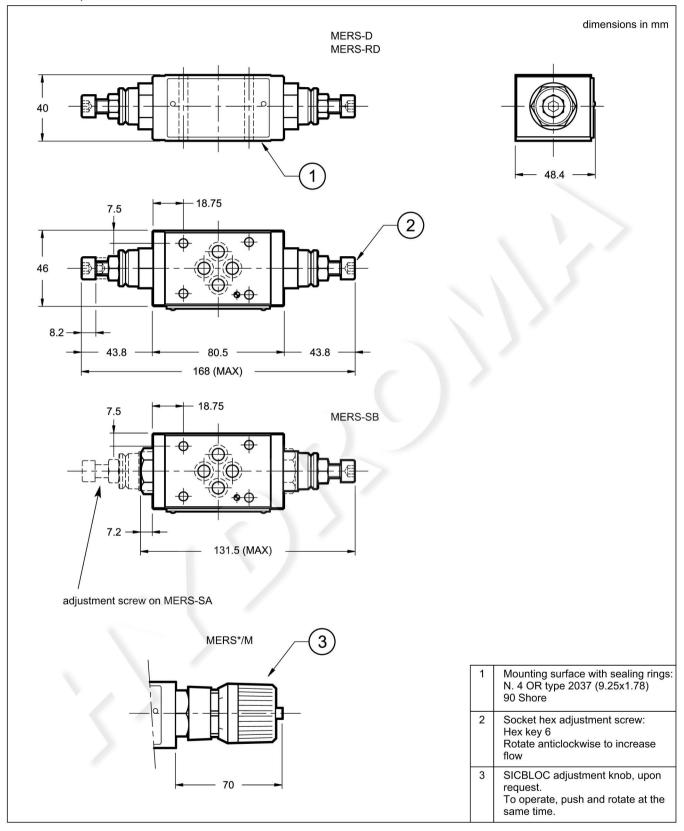
Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals. For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department.

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.

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MERS SERIES 50

4 - MERS -D, -RD and -S* - OVERALL AND MOUNTING DIMENSIONS



64 200/119 ED 3/4

MERS SERIES 50

4 - MERS-G* - OVERALL AND MOUNTING DIMENSIONS

