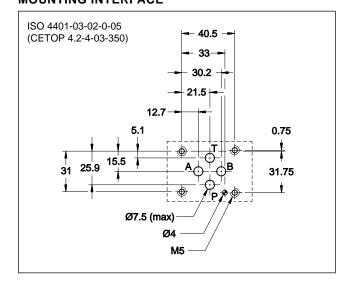




MOUNTING INTERFACE

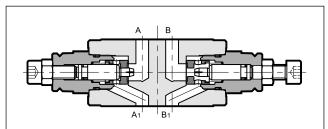


QTM3 FLOW RESTRICTOR VALVE SERIES 10

MODULAR VERSION ISO 4401-03

p max 350 barQ max (see table of performances)

OPERATING PRINCIPLE

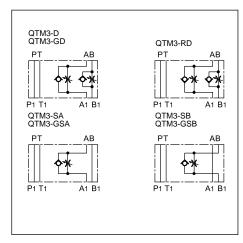


- This is a non-compensated flow control valve with a check valve for reverse free flow. It is made in modular version and with mounting surface according to the ISO 4401 standards; it can be assembled quickly without the use of pipes, but using only suitable tie-rods or bolts, thus forming compact modular 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-in check valve allows the reverse free flow (cracking pressure of 0.5 bar).
- It can be supplied with adjustment by hexagonal socket screw or by knob.

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

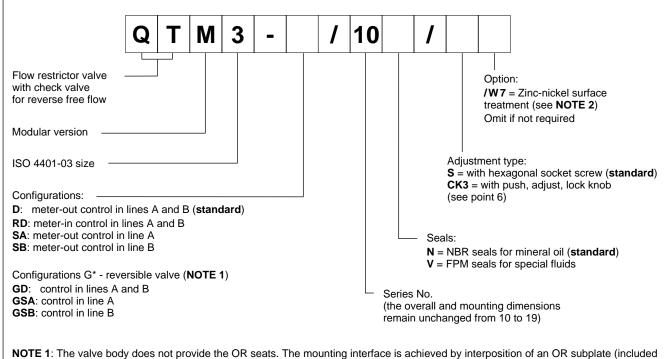
Maximum operating pressure Check valve cracking pressure	bar	350 0.5
Maximum flow rate in the controlled lines Maximum flow rate in the free lines Min. controlled flowrate with Δp 10 bar	l/min	50 75 ≤0.060
Ambient temperature range	°C	-20 / +60
Fluid temperature range	°C	-20 / +80
Fluid viscosity range	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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1 - IDENTIFICATION CODE



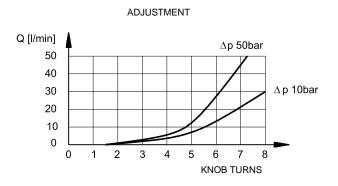
NOTE 1: The valve body does not provide the OR seats. The mounting interface is achieved by interposition of an OR subplate (included in the delivery). The control of flow (meter-in or meter-out) is depending on the way of assembly the valve on the subplate.

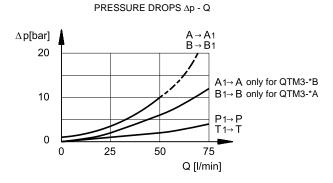
NOTE 2: The standard valve is supplied with surface treatment of phosphating black.

The zinc-nickel finishing on the valve body makes the valve suitable to ensure a salt spray resistance up to **240** hours. (test operated according to UNI EN ISO 9227 standards and test evaluation operated according to UNI EN ISO 10289 standards).

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. 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.

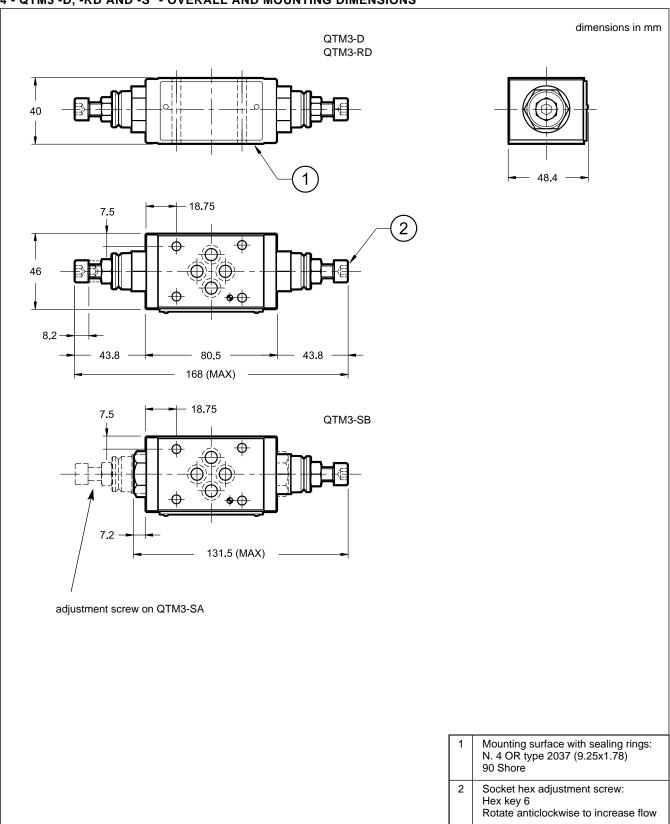
Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics. The fluid must be preserved in its physical and chemical characteristics.

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QTM3

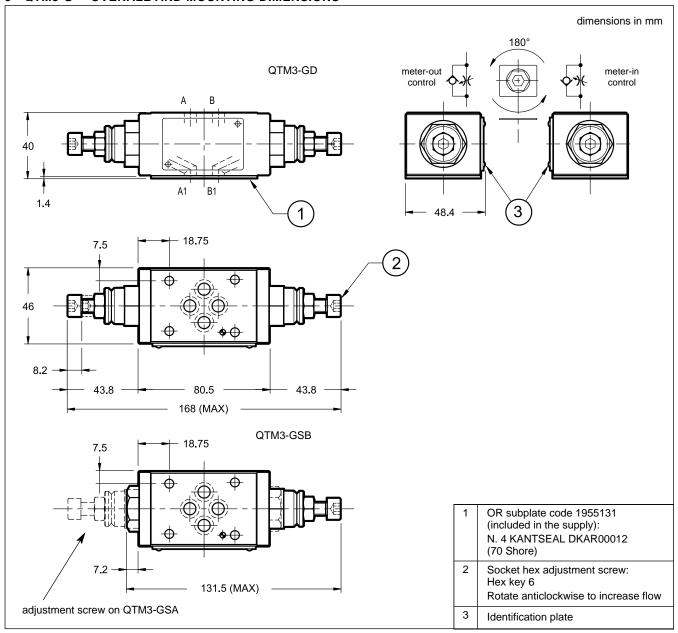
4 - QTM3 -D, -RD AND -S* - OVERALL AND MOUNTING DIMENSIONS



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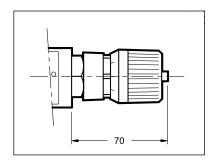
5 - QTM3-G* - OVERALL AND MOUNTING DIMENSIONS



6 - ADJUSTMENT KNOB

Valves can be supplied with adjustment knob, which is engaged by pushing and twisting at the same time. When released, the knob disengages to secure the adjustment from involuntary tampering.

Add CK3 in the identification code to order this version (see point 1).





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