



VSM3

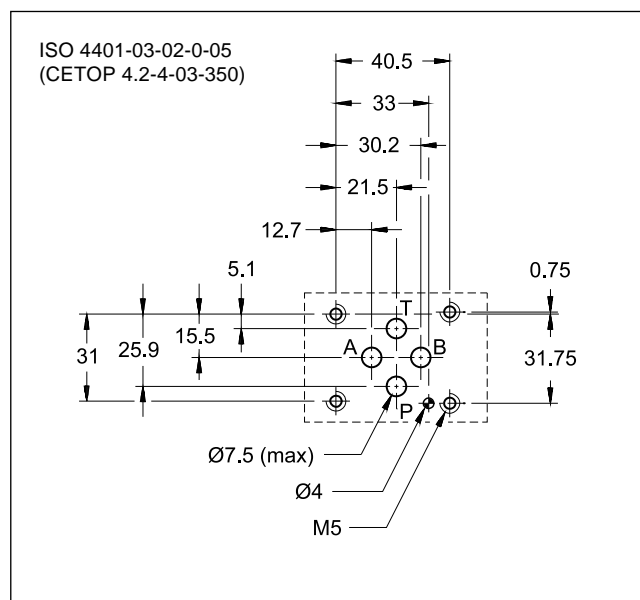
SHUTTLE VALVE

SERIES 10

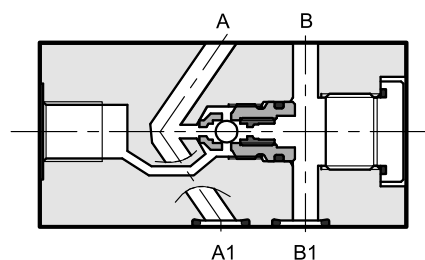
**MODULAR VERSION
ISO 4401-03**

p max **350** bar
Q max **40** l/min

MOUNTING SURFACE



OPERATING PRINCIPLE



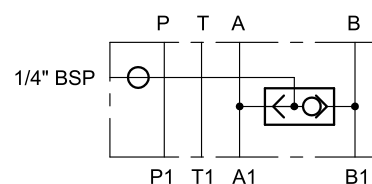
- The VSM3 is a shuttle valve for pilot signals made as a modular version with mounting surface according to the ISO 4401-03 standards.
- The valve regulates the passage of the signal with higher pressure between A and B towards the outlet side port 1/4" BSP.
- The shuttle valve VSM3 has been designed with purpose of pilot signal with flowrate up to 3 l/min

PERFORMANCES

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

Maximum operating pressure	bar	350
Maximum flow rate through the cartridge	l/min	3
Maximum flow rate to A, B, P and T port	l/min	40
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	0,95

HYDRAULIC SYMBOL



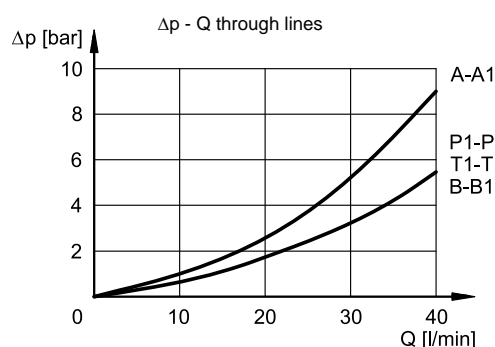
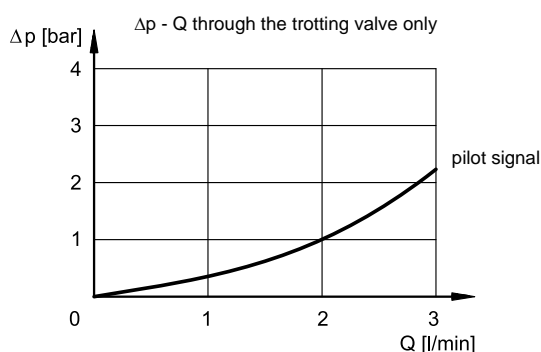
1 - IDENTIFICATION CODE

	V	S	M	3	/	10	
Shuttle valve _____							Seals: N =Seals in NBR for mineral oils (standard) V = Seals in FPM for special fluids
Modular version _____							Series No. (the overall and mounting dimensions remain unchanged from 10 to 19)
ISO 4401-03 size _____							

2 - CHARACTERISTIC CURVES

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

PRESSURE DROPS Δp - Q



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

