



MDT

POPPET TYPE SOLENOID OPERATED DIRECTIONAL CONTROL VALVE

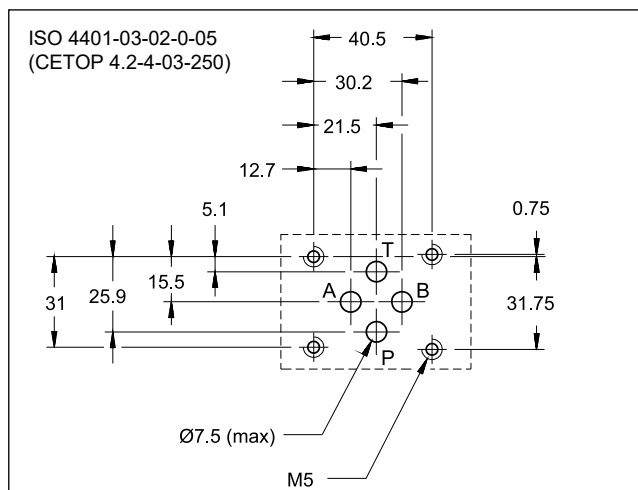
SERIES 11

MODULAR VERSION ISO 4401-03

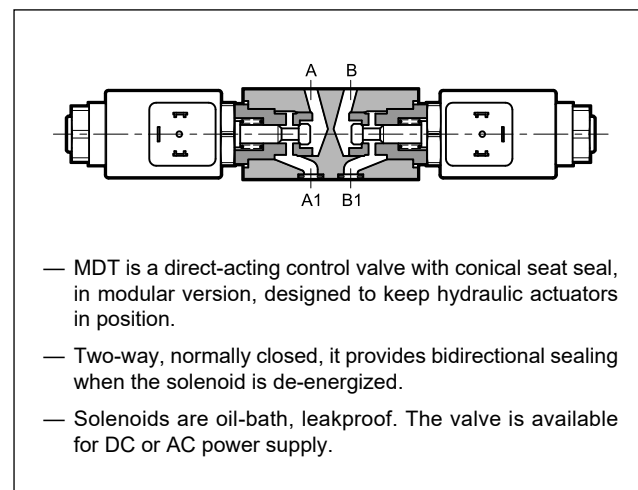
p max **250** bar

Q max **25** l/min

MOUNTING INTERFACE



OPERATING PRINCIPLE



VALVE CONFIGURATIONS

(see hydraulic symbols table)

Configuration "SA": used to control flow in line A.

Configuration "SB": used to control flow in line B.

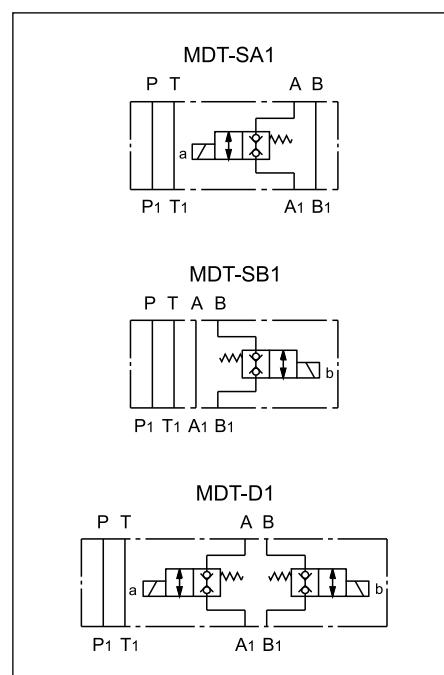
Configuration "D": used to control flow in lines A and B

PERFORMANCES

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

Maximum operating pressure	bar	250
Maximum flow rate in controlled lines	l/min	25
Maximum flow rate in free lines		65
Ambient temperature range	°C	-20 / +50
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 MDT-D1	kg	1,7
Mass MDT-SA1/SB1		1,2

HYDRAULIC SYMBOLS

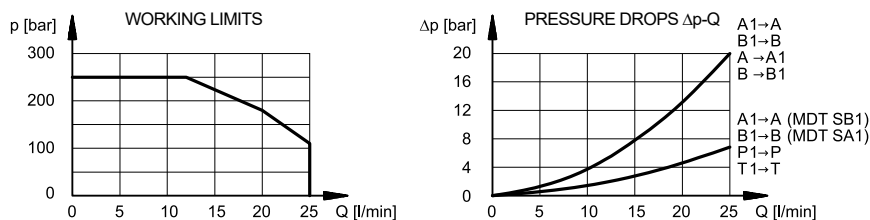


1 - IDENTIFICATION CODE

M	D	T	-	1	/	11	-	K1
Modular valve ISO 4401-03			Poppet type solenoid operated directional control valve			Coil electrical connection for EN 175301-803 connector		
Configurations: SA = control on line A			SB = control on line B			DC power supply: D24 = 24 V		
D = control on lines A and B			Double seal - normally closed			AC power supply to be rectified R110 = 110 V		
Series No.: (the overall and mounting dimensions remain unchanged from 10 to 19)			Seals: N = NBR seals for mineral oil (standard)			V = FPM seals for special fluids		
						R220 = 220 V		

NOTE: Solenoid valves are delivered without connectors. Connectors type EN 175301-803 (ex DIN 43650) can be ordered separately. See catalogue 49 000.

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



3 - ELECTRICAL FEATURES AND SWITCHING TIMES

Please refer to catalogue 42 200 - DT03.

4 - 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.

5 - OVERALL AND MOUNTING DIMENSIONS

