



MDD44

SOLENOID OPERATED DIRECTIONAL CONTROL VALVE

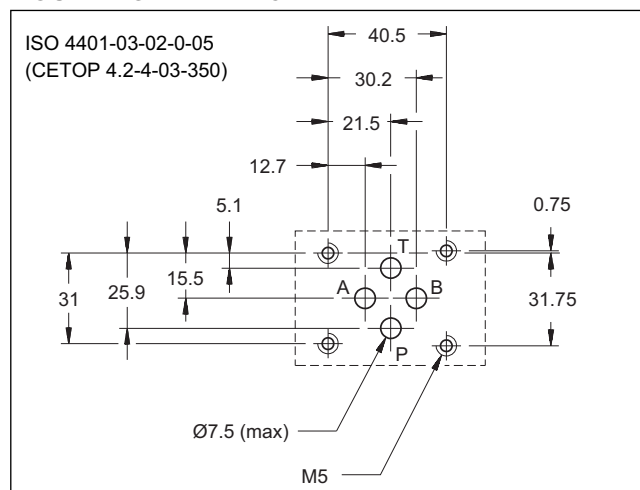
DIRECT CURRENT - SERIES 50 ALTERNATING CURRENT - SERIES 55

MODULAR VERSION
ISO 4401-03 (CETOP 03)

p max **350** bar

Q max **50** l/min

MOUNTING INTERFACE



VALVE CONFIGURATIONS (see Hydraulic symbols table)

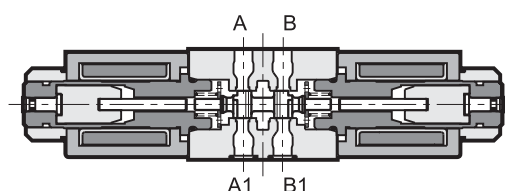
- Type “S”: a 4-double way, 3-position, 2-solenoid directional valve; positioning of the spool at rest is obtained with centering springs.
- Type “TA/TC”: a 4-double way, 2-position, one solenoid directional valve; positioning of the spool at rest is obtained with a return spring.

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

Maximum operating pressure:		
- ports P - A - B - T	bar	350
- port T (DC)		210
- port T (AC)		140
Maximum flow rate on ports P - A - B - T	l/min	50
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
Masse: MDD44-S	kg	2
MDD44-TA/TC		1,5

Operating limits (see catalogue 41200, par. 5): the indicated values must be reduced by 30%.

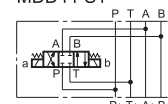
OPERATING PRINCIPLE



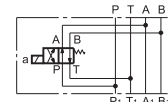
- MDD44 is used to switch multiple flow directions, or to select pressure values. Application examples can be seen at paragraph 10.3 of 41 200 datasheet (available upon request only).
- The oil passage holes pass right through the entire valve body and due to this particular design feature, the MDD44 can be assembled with all ISO 4401-03 (CETOP 03) modular valves.
- The special connection of the valve in parallel to the P, T, A and B lines of the circuit allows easy construction of different hydraulic configurations, reducing pressure drops to a minimum.

HYDRAULIC SYMBOLS

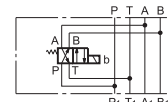
MDD44-S1



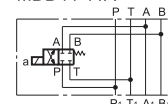
MDD44-TA



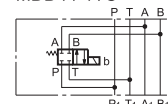
MDD44-TC



MDD44-1TA



MDD44-1TC



1 - IDENTIFICATION CODE

M	D	D	44	-			/		-		/		/	
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Modular solenoid
operated directional control valve
Size ISO 4401-03 (CETOP 03)

4-double way

Configuration: **S - TA - TC**
Type of centre and connection diagram
(See Hydraulic symbols table)

soft shift device (option G)
see catalogue 41 200 par 10.1 (omit if not required)

Series no.: **50** direct current
55 alternating current
(the overall and mounting dimensions remain unchanged
from 50 to 59)

CM = manual override,
boot protected (omit if
not required)

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

Electrical supply features:
24V-CC for direct current
110V-50HZ for alternating current
(for other available voltages see par.
6.2, catalogue 41 200, available upon
request)

NOTE: The solenoid valves are never supplied with connector. The connectors must be ordered separately. To identify the connector type to be ordered, please see catalogue 49 000.

2 - OVERALL AND MOUNTING DIMENSIONS

