093-10054a







UKŁADY HYDRAULICZNE

42 200/107 ED



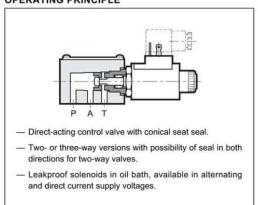
DT03

POPPET TYPE SOLENOID OPERATED DIRECTIONAL CONTROL VALVE SERIES 10

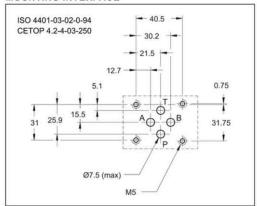
SUBPLATE MOUNTING ISO 4401-03 (CETOP 03)

p max 250 bar Q max 25 l/min

OPERATING PRINCIPLE



MOUNTING INTERFACE



CONFIGURATIONS (see Hydraulic symbols table below)

- Configurations "A", "B", "C", "D": 3-way, 2-position solenoid valves.
- Configurations "E", "F", "G", "H": 2-way, 2-position solenoid valves.

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

Maximum operating pressure	bar	250
Maximum flow rate	I/min	25
Ambient temperature range	°C	-20 / +50
Fluid temperature range	°C	-20 / +80
Fluid viscosity range	cSt	10 ÷ 400
Fluid contamination degree		to ISO 4406:1999 s 20/18/15
Recommended viscosity	cSt	25
Mass	kg	1,3

HYDRAULIC SYMBOLS

	3-WAY	valves	
DT03-3C	a A	P T	DT03-3A
DT03-3D	a A	PT	DT03-3B
	2-WAY	valves	
DT03-2E	a A	A D D	DT03-2F
DT03-2H	a Sim	~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	DT03-20

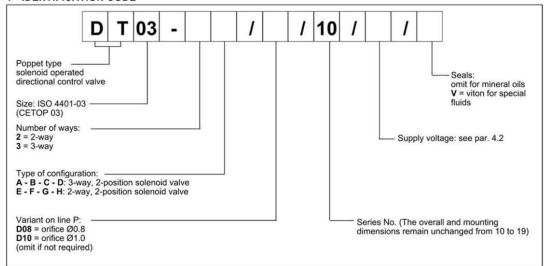
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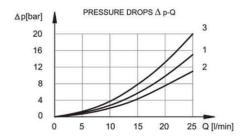
ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

DT03

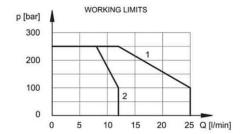
1 - IDENTIFICATION CODE



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



	Curve on graph	
valve code	De-energized solenoid	Energized solenoid
DT03-3A	1	3
DT03-3B	2	3
DT03-3C	1	3
DT03-3D	2	3
DT03-2E		3
DT03-2F	1	
DT03-2G	-	3
DT03-2H	1	10



Valve	Curve on graph	
DT03-3A	2	
DT03-3B	1	
DT03-3C	1	
DT03-3D	1	
DT03-2E	1	
DT03-2F	2	
DT03-2G	1	
DT03-2H	1	

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.

093-10054c



HYDRAULICKÉ SYSTÉMY





ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

DT03

4 - ELECTRICAL FEATURES

4.1 Solenoids

These are essentially made up of two parts: tube and coil. The tube is threaded onto the valve body and includes the armature that moves immersed in oil, without wear. The inner part, in contact with the oil in the return line, ensures heat dissipation. The coil is fastened to the tube by a threaded nut, and can be turned 360° on tis axis, compatibe with space available. The interchangeability of coils of different voltages is allowed within the same type of supply current: alternating or direct (DC / RAC).

4.2 Available voltages

It is necessary to always use "D" type connectors (with rectifier incorporated) and RAC coils for alternating current supply.

Rectified current supply takes place by using a bridge rectifier bridge, externally or fitted within the "D" type connectors, between the alternating current source (24V or 110V, /50 or /60 Hz) and the coil.

4.3 Current and power consumption

Voltage [V]	Frequency [Hz]	Current consumption (±5%) [A]	Power (±5%) [W]
12	DC	2,38	20.0
24	DC	1,19	28,8
24	RAC	1,4	
110	RAC	0,3	28,8
220	RAC	0,15	

4.4 Switching times

The values indicated refer to a flow rate of Q = 10 l/min, ρ = 210 bar working with mineral oil at a temperature of 50°C, a viscosity of 36 cSt and supply voltage equal to 90% of the nominal voltage.

	ENERGIZING	DE-ENERGIZING
TIMES (±10%)	30 ms	50 ms

4.5 Electric connectors

The solenoid valves are never supplied with connector.

Connectors must be ordered separately.

For the identification of the connector type to be ordered, please see catalogue 49 000.

SUPPLY VOLTAGE FLUCTUATION	± 10% Vnom
DUTY CYCLE	100%
CLASS OF PROTECTION:	
Atmospheric agents	IP 65
Coil insulation	class H
Impregnation	class F

DIRECT CURRENT COILS		
12V CC	24V CC	
	RAC COILS	
24V RAC	110V RAC	220V RAC



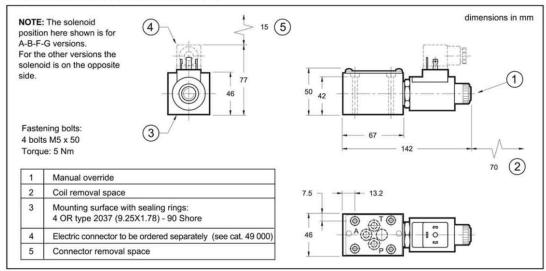


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5 - OVERALL AND MOUNTING DIMENSIONS



6 - APPLICATION EXAMPLES

