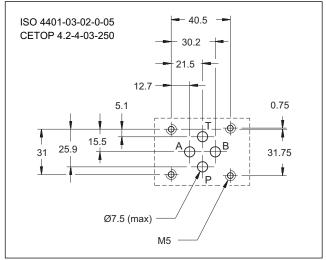
42 200/110 ED





MOUNTING INTERFACE



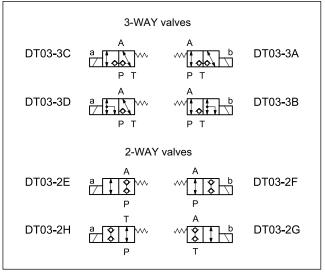
CONFIGURATIONS (see hydraulic symbols table below)

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

Maximum operating pressure	bar	250
Maximum flow rate	l/min	25
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	kg	1,3

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

HYDRAULIC SYMBOLS

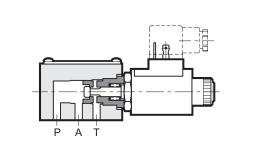


DT03 POPPET TYPE SOLENOID OPERATED DIRECTIONAL CONTROL VALVE SERIES 10

SUBPLATE MOUNTING ISO 4401-03 (CETOP 03)

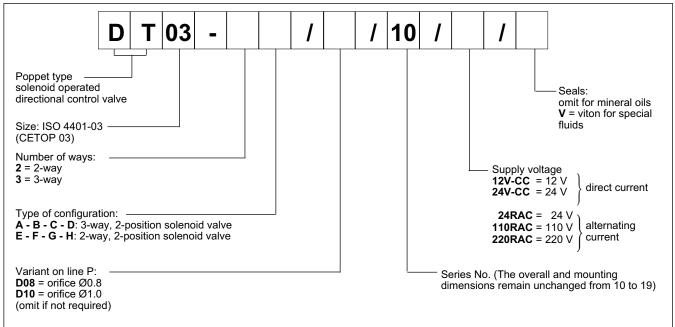
p max 250 bar
Q max 25 l/min

OPERATING PRINCIPLE

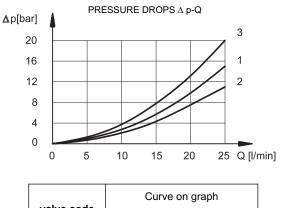


- Direct-acting control valve with conical seat seal.
- Two- or three-way versions with possibility of seal in both directions for two-way valves.
- Leakproof solenoids in oil bath, available in alternating and direct current supply voltages.

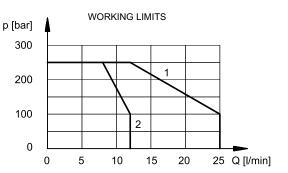
1 - IDENTIFICATION CODE



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



	Curve or	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	-	



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.

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 its axis, compatible with space available. The interchangeability of coils of different voltages is allowed within the same type of supply current: alternating or direct (DC / RAC).

VOLTAGE SUPPLY FLUCTUATION	± 10% Vnom
DUTY CYCLE	100%
ELECTROMAGNETIC COMPATIBILITY (EMC) (NOTE 1)	In compliance with 2004/108/CE
LOW VOLTAGE	In compliance with 2006/95/CE
CLASS OF PROTECTION: Atmospheric agents (CEI EN 60529) Coil insulation (VDE 0580) Impregnation	IP 65 (NOTE 2) class H class F

4.2 - Current and power consumption

The table shows the consumption values for the different coil type.

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.

Coil	Voltage [V]	Resistance at 20°C [Ω]	Current consumption [A]	Power consumption [W]	Coil code
12V-CC	12	5,6	2,14	25,7	1902050
24V-CC	24	21,8	1,10	26,4	1902051
24RAC	24	17	1,23	26	1902052
110RAC	110	420	0,23	22	1902053
220RAC	220	1750	0,11	22	1902054

4.3 - Switching times

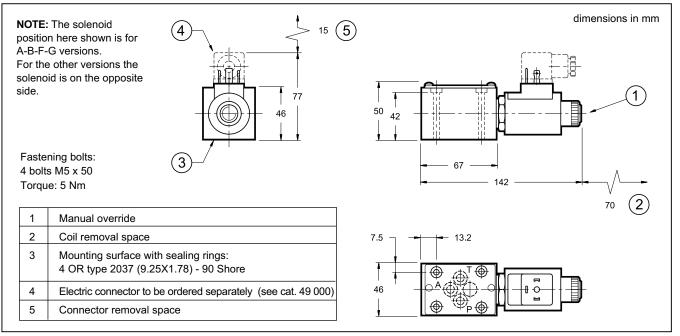
The values indicated refer to a flow rate of Q = 10 l/min, p = 210 bar working with mineral oil at a temperature of 50° C, a viscosity of 36 cSt and supply voltage equal to 90% of the nominal voltage.

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

4.4 - 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.

5 - OVERALL AND MOUNTING DIMENSIONS



6 - APPLICATION EXAMPLES

