43 100/104 ED



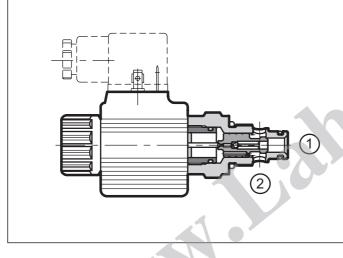


KT08 CARTRIDGE SOLENOID VALVE SERIES 10

CARTRIDGE TYPE seat 3/4-16 UNF-2B ISO 725

p max **350** bar **Q** nom **50** l/min

OPERATING PRINCIPLE



- The KT08 is a 2-ways solenoid valve, poppet type, cartridge execution, available in normally closed version (NC) and normally open version (NO) with nominal flow rate of 50 l/min.

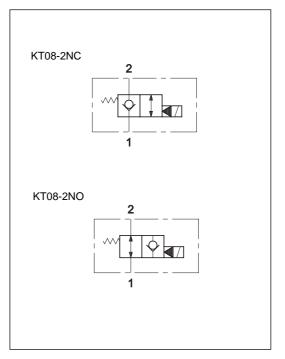
It ensures a low internal leakage, which decreases while the pressure increases.

- The valve can be ordered with direct current or rectified current solenoids and with four different types of electrical connections, in order to cover many installation requirements (see par. 8).

- For every version, the emergency manual override is an available option (see par. 7).

PERFORMANCE RATINGS (working with mineral oil of viscosity of 36 cSt at 50°C)		
Maximum operating pressure	bar	350
Nominal flow rate	l/min	50
Pressure drops ∆p-Q	see par. 3	
Electrical characteristics	see par. 5	
Electrical connections	see par. 8	
Ambient temperature range	°C	-20 ÷ +50
Fluid temperature range	°C	-20 ÷ +80
Fluid viscosity range	cSt	10 ÷ 400
Recommended viscosity	cSt	25
Fluid contamination degree	according to NAS 1638 class 10	
Mass	kg	0,32
Surface treatment with white colour zinc	Fe / Zn 8c 1B UNI ISO 2081/4520	

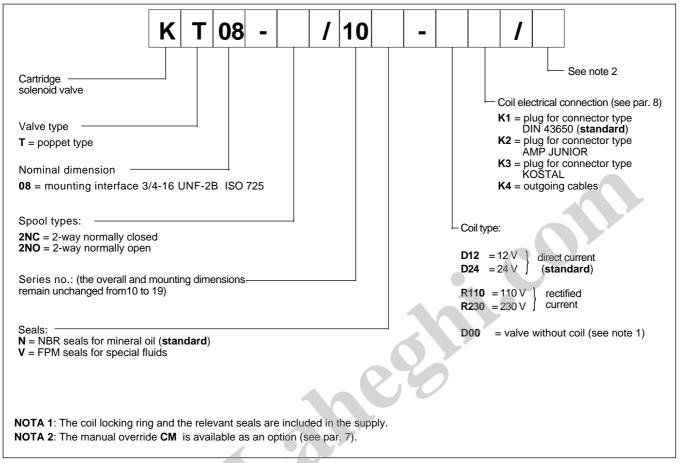
HYDRAULIC SYMBOLS



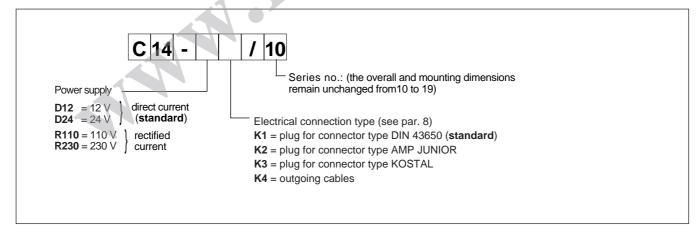




1 - IDENTIFICATION CODE



1.1 - COIL IDENTIFICATION CODE



2 - HYDRAULIC FLUIDS

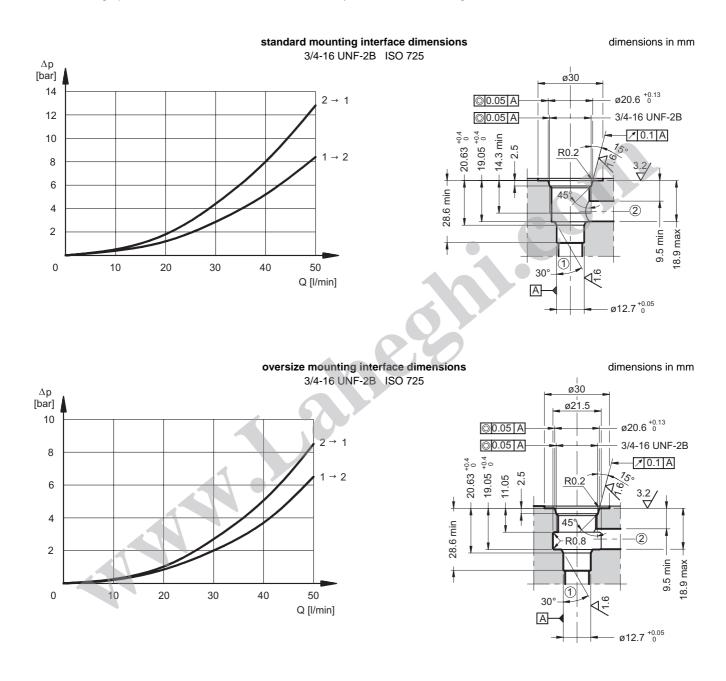
Use mineral oil-based hydraulic fluids HL or HLP type, according to ISO 6743/3. For fluids HFD-R type (phosphate esters) use FPM seals (code V). For the use of other fluid types such as HFA, HFB, HFC, please consult our technical department.

Using fluids at temperatures higher than 70°C causes a faster degradation of the fluid and of the seals characteristics. The fluid must be preserved in its physical and chemical characteristics.



3 - PRESSURE DROPS Δp -Q (obtained with viscosity of 36 cSt at 50 °C)

The values in graphs refer to both NC and NO valves and they differ for the mounting interface used.



4 - SWITCHING TIMES

The values indicated refer to a valve tested with Q=25 l/min, p=350 bar, working with mineral oil at a temperature of 50°C and a viscosity of 36 cSt.

TIMES (±10%)		
	ENERGIZING	DE-ENERGIZING
KT08-2NC	60 ms	85 ms
KT08-2NO	85 ms	60 ms

KT08 SERIES 10

5 - ELECTRICAL FEATURES

5.1 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 rotated according to the available space.

The interchangeability of coils of different voltages both D or R type is possible without removing the tube.

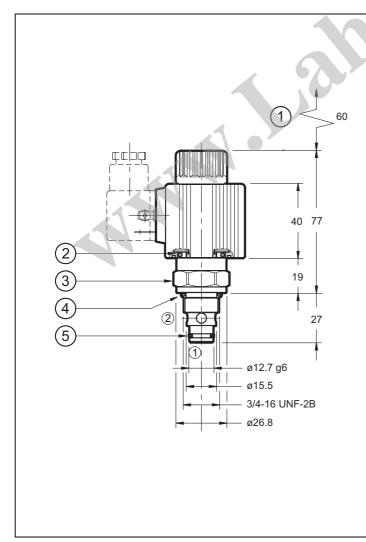
VOLTAGE SUPPLY FLUCTUATION		± 10% Vnom	
MAX SWITCH ON FREQUENCY		10.000 ins/hr	
DUTY CYCLE		100%	
ELECTROMAGNETIC C	ELECTROMAGNETIC COMPATIBILITY (EMC)		
EMISSIONS IMMUNITY	EN 50081-1 EN 50082-2	in compliance with 89/336 CEE	
LOW VOLTAGE		in compliance with 73/23/CEE 96/68/CEE	
Class of protection accord Atmospheric agents Coil insulation Impregnation	ling to IEC 144	IP 65 class H class H	

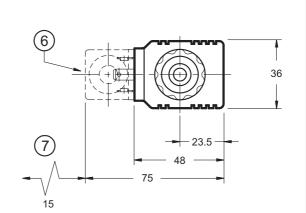
5.2 Current and absorbed power

In the table are shown current and power consumption values relevant to the different coil types. "R" coil must be used when the valve is fed with AC power supply subsequently rectified by means of rectifier bridge, externally or incorporated in the "D" type connector (see cat. 49 000).

Coi	il type	Resistance at 20°C [Ω] ±1%	Absorbed current A (± 5%)	Power W	(± 5%) VA
C14	4-D12*	5,4	2,2	26,5	
C14	4-D24*	20,7	1,16	27,8	
C14	4-R110*	363	0,25		27,2
C14	4-R230*	1640	0,11		26,4

6 - OVERALL AND MOUNTING DIMENSIONS





dimensions in mm

1	Coil removal space
2	O-Ring type 4081
3	Hexagonal: spanner 22 tightening torque 50 Nm
4	O-Ring type 3.908
5	O-Ring type 2037
6	Electric connector DIN 43650 (drawing relevant to standard connection K1 - for other types of connection see par. 8)
7	Connector removal space

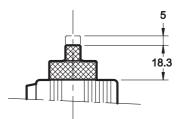




7 - MANUAL OVERRIDE

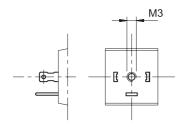
CM for NO version (pushing type)

CM for NC version (screw type)

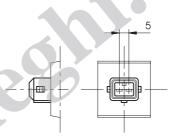


8 - ELECTRIC CONNECTIONS

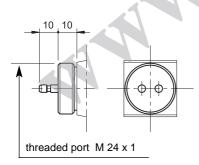
connection for DIN 43650 connector code **K1** (standard)



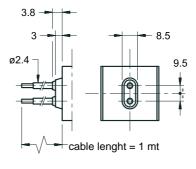
connection for AMP JUNIOR connector code K2



connection for KOSTAL connector code **K3**



outgoing cables connection codice **K4**



9 - ELECTRIC CONNECTORS

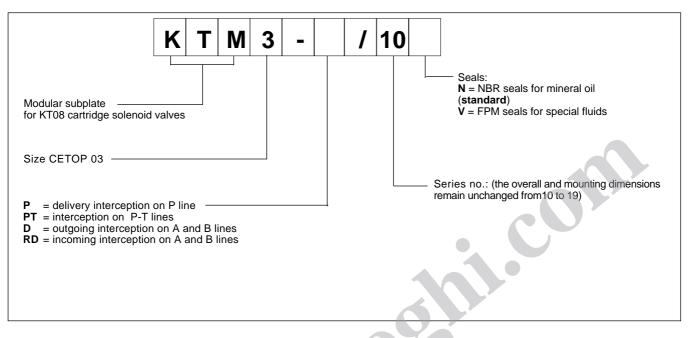
The solenoid valves are supplied without connectors.

For coils with standard electrical connections K1 type (DIN 43650) the connectors can be ordered separately. For the identification of the connector type to be ordered please see cat. 49 000. For K2 and K3 connection type the relative connectors are not available.

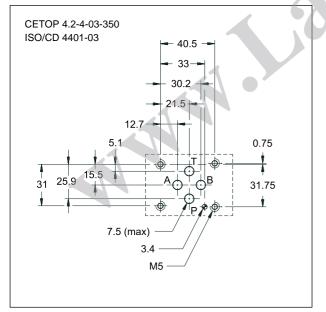


10 - SUBPLATES FOR MODULAR MOUNTING

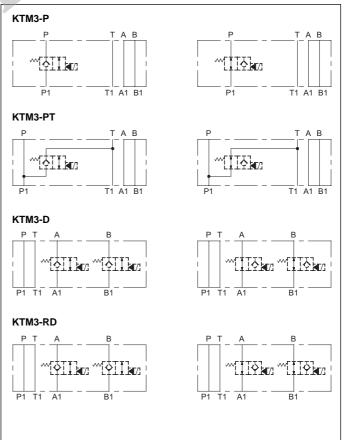
10.1 - Identification code



MOUNTING INTERFACE

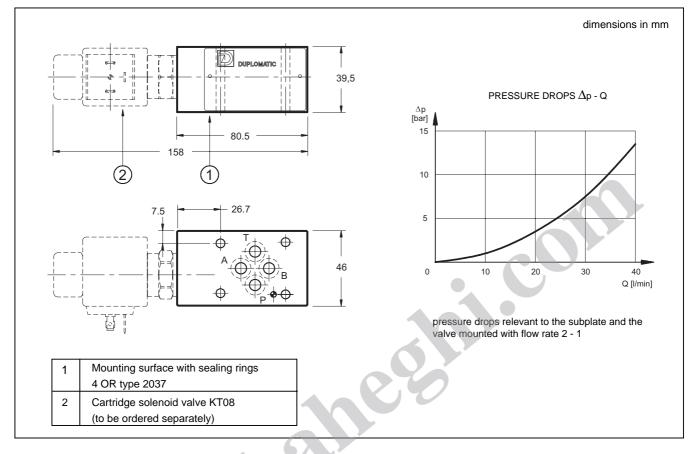


HYDRAULIC SYMBOLS

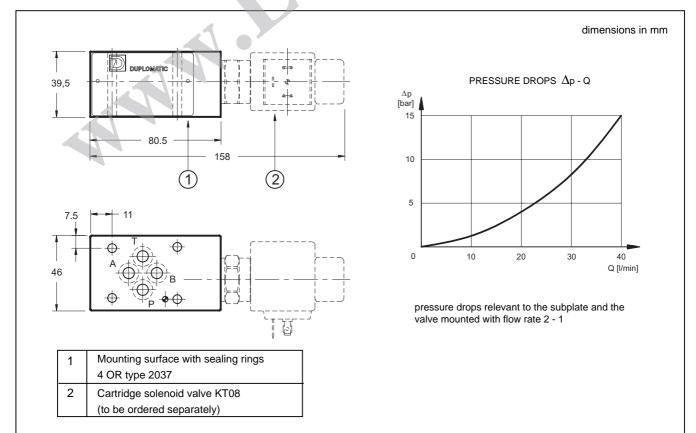




10.2 - OVERALL AND MOUNTING DIMENSIONS KTM3-P



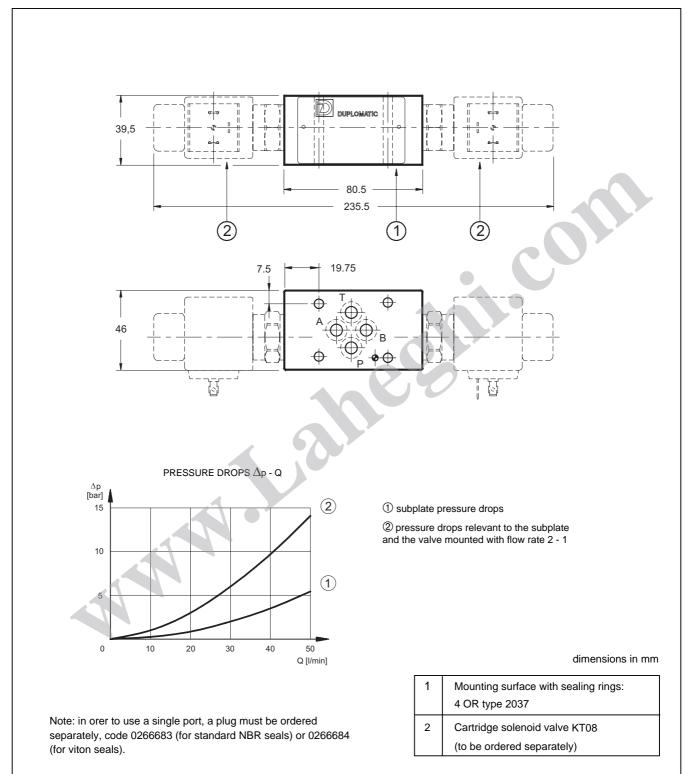
10.3 - OVERALL AND MOUNTING DIMENSIONS KTM3-PT







10.4 - OVERALL AND MOUNTING DIMENSIONS KTM3-D and KTM3-RD





DUPLOMATIC OLEODINAMICA SpA

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