



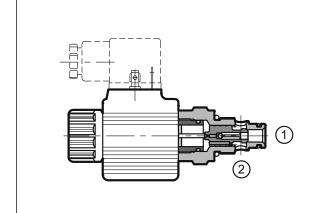
KT08 CARTRIDGE SOLENOID VALVE SERIES 10

CARTRIDGE TYPE

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

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

OPERATING PRINCIPLE



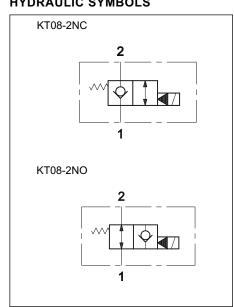
- The KT08 is a 2-way solenoid valve, poppet type, cartridge execution, available in normally closed version (NC) and normally open version (NO) with nominal flow rate of 50 l/min.
- It ensures a low internal leakage, which decreases while the pressure increases.
- The valve can be ordered with direct current solenoids and with five types of electrical connections, in order to cover many installation requirements (see point 7).
- For every version, the manual override is an available option (see point 9).

PERFORMANCES

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

Maximum operating pressure	bar	350			
Nominal flow rate	I/min 50				
Pressure drops ∆p - Q	see point 3				
Electrical characteristics	see point 5				
Electrical connections	see point 7				
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 0,32				
Surface treatment with white colour zinc	According to ISO 2081 Fe/Zn12/A				

HYDRAULIC SYMBOLS

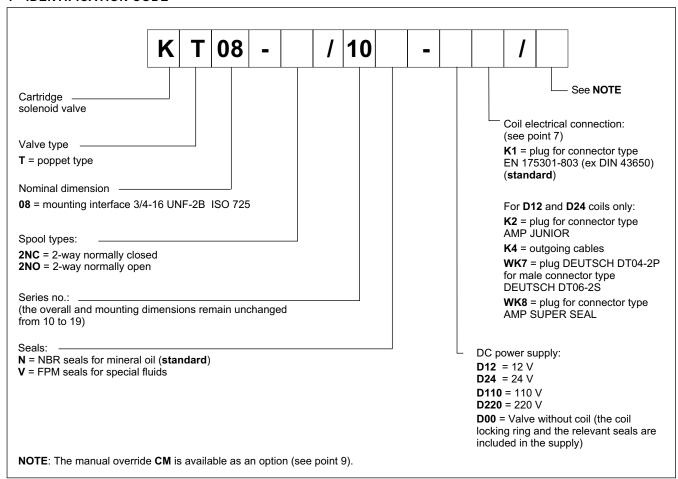


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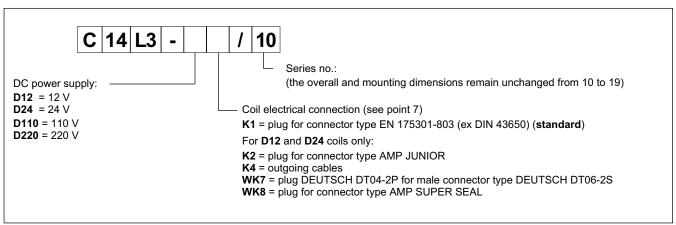


KT08 SERIES 10

1 - IDENTIFICATION CODE



1.1 - Coil identification code



2 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals (code N). For fluids HFDR 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 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.

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KT08 SERIES 10

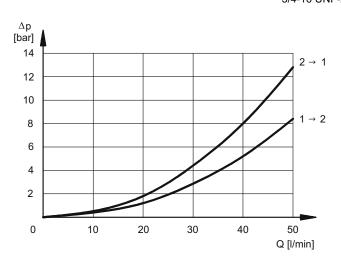
3 - PRESSURE DROPS Δp -Q

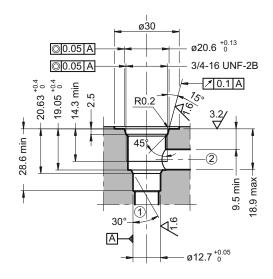
(obtained with viscosity of 36 cSt at 50 °C)

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

standard mounting interface dimensions 3/4-16 UNF-2B ISO 725

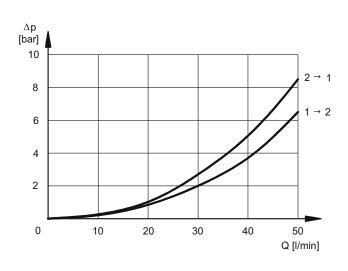
dimensions in mm

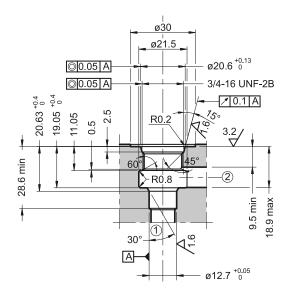




oversize mounting interface dimensions 3/4-16 UNF-2B ISO 725

dimensions in mm





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-ENERGIZIN					
KT08-2NC	60 ms	85 ms			
KT08-2NO	85 ms	60 ms			

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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 is possible without replace the tube.

Protection from atmospheric agents IEC 60529

The IP protection degree is intended for the whole valve. It is guaranteed only with both valve and connectors of an equivalent IP degree, correctly connected and installed.

Versions with CM manual override are IP65 always.

Electric connection	IP65	IP66	IP67	IP68	IP69 IP69K (*)
K1	х	х			
K2	х		х		
K4	х				
WK7	х		х	х	х
WK8	х	х	х	х	х

(*) The protection degree IP69k	is not	taken	into ac	count i	n
`, .				Count	• •
IEC 60529 but it is included in b	oth IS	0.2065	3.		

SUPPLY VOLTAGE FLUCTUATION	± 10% Vnom
MAX SWITCH ON FREQUENCY	10.000 ins/hr
DUTY CYCLE	100%
ELECTROMAGNETIC COMPATIBILITY (EMC)	In compliance with 2014/30/EU
LOW VOLTAGE	In compliance with 2014/35/EU
CLASS OF PROTECTION Coil insulation (VDE 0580) Impregnation:	class H class H

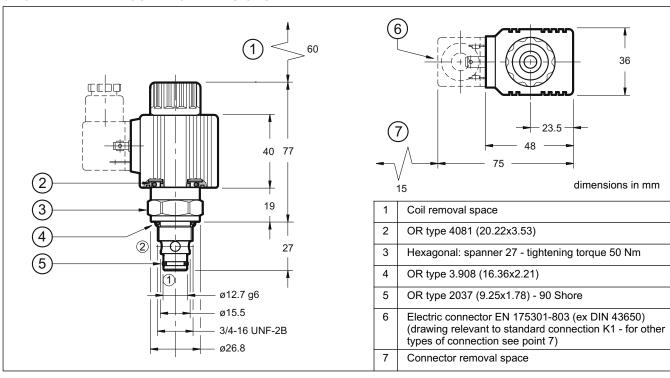
5.2 - Current and absorbed power for DC solenoid valve

The table shows current and power consumption values of the DC coils.

Using connectors type "D" (see cat. 49 000) with embedded bridge rectifier it is possible to feed DC coils (starting from 110V voltage) with alternating current (50 or 60 Hz), considering a reduction of the operating limits.

	Resistance at 20°C [Ω]	Current consumption [A]	Power consumption [W]	K1	K2	Coil code K4	WK7	WK8
D12	5,4	2,20	26,5	1902740	1902750	1902770	1903510	1903520
D24	20,7	1,16	27,8	1902741	1902751	1902771	1903511	1903521
D110	424	0,26	28,5	1902746				
D220	1856	0,12	26,1	1902747				

6 - OVERALL AND MOUNTING DIMENSIONS



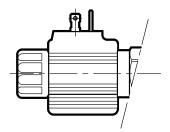
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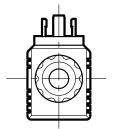




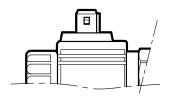
7 - ELECTRIC CONNECTIONS

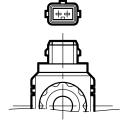
connection for EN 175301-803 (ex DIN 43650) connector type code **K1 (standard)**





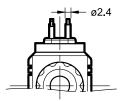
connection for AMP JUNIOR connector type code **K2**



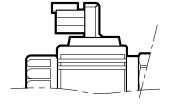


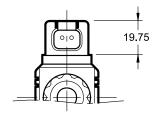
outgoing cable connections cable length = 1 mt code **K4**





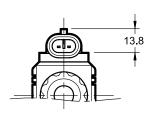
connection for DEUTSCH DT04-2P for male connector type DEUTSCH DT06 code **WK7**





connection for AMP SUPER SEAL (two contacts) connector type code **WK8**



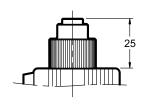


8 - ELECTRIC CONNECTORS

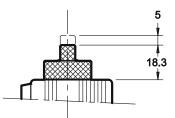
Solenoid valves are delivered without connectors. Connectors type EN 175301-803 (ex DIN 43650) for K1 connection can be ordered separately. See catalogue 49 000.

9 - MANUAL OVERRIDE

CM for NO version (pushing type)



CM for NC version (screw type)



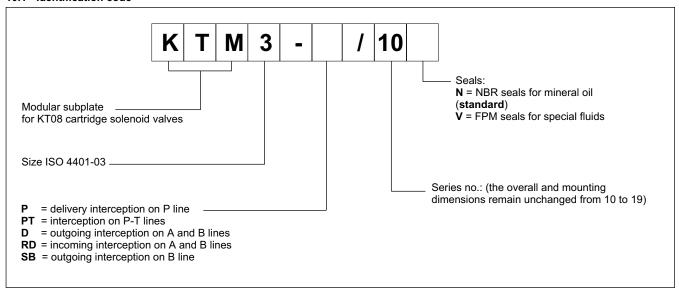
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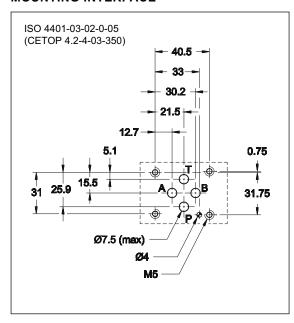
KT08

10 - SUBPLATES FOR MODULAR MOUNTING

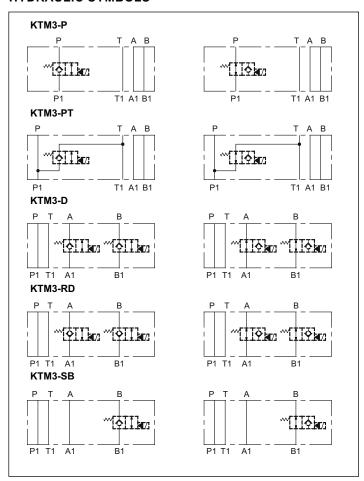
10.1 - Identification code



MOUNTING INTERFACE



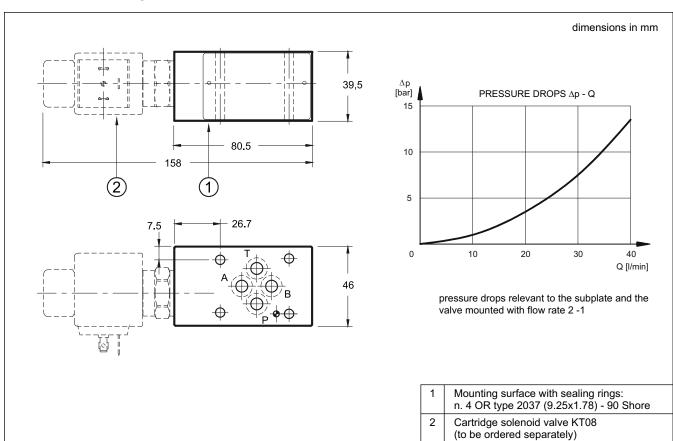
HYDRAULIC SYMBOLS



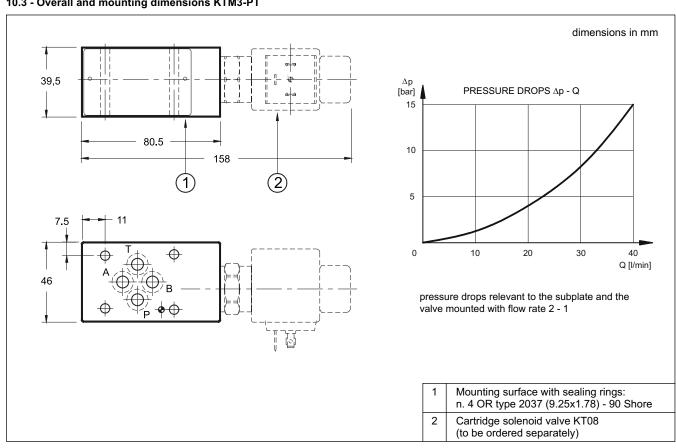
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10.2 - Overall and mounting dimensions KTM3-P



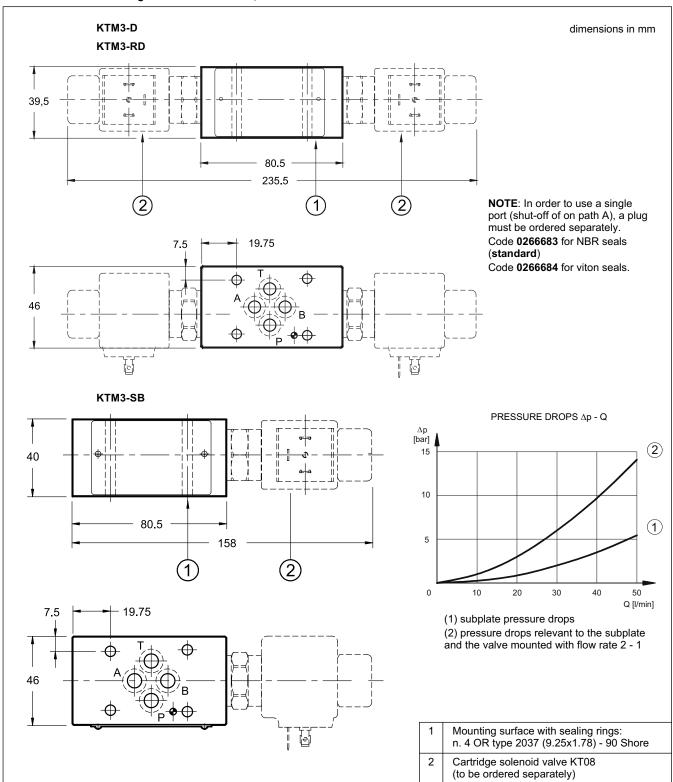
10.3 - Overall and mounting dimensions KTM3-PT



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10.4 - Overall and mounting dimensions KTM3-D, KTM3-RD and KTM3-SB





DUPLOMATIC MS S.p.A.

via M. Re Depaolini 24 • 20015 PARABIAGO (MI) • ITALY tel. +39 0331.895.111 • www.duplomatic.com • e-mail: sales.exp@duplomatic.com