43 100/117 ED



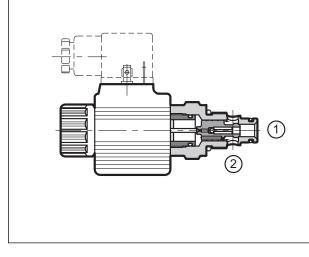


KT08 CARTRIDGE SOLENOID VALVE SERIES 10

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

p max 350 bar
Q nom 50 l/min

OPERATING PRINCIPLE



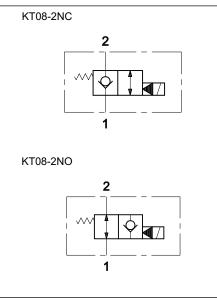
- The KT08 is a 2-ways solenoid valve, poppet type, cartridge execution, available in normally closed version (NC) and normally open version (NO) with nominal flow rate of 50 l/min.
- It ensures a low internal leakage, which decreases while the pressure increases.
- The valve can be ordered with direct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

PERFORMANCES

(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 paragraph 3			
Electrical characteristics	see paragraph 5			
Electrical connections	see paragraph 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			

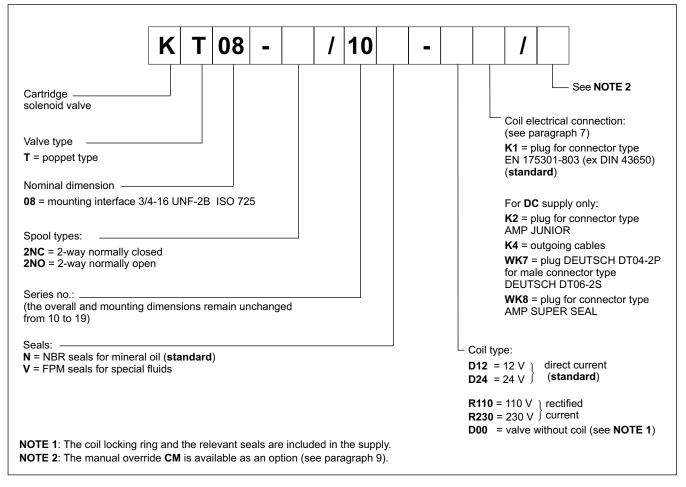
HYDRAULIC SYMBOLS



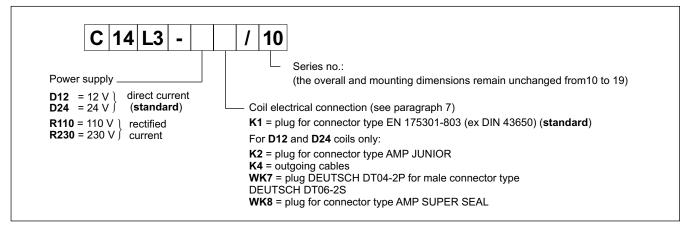


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1 - IDENTIFICATION CODE



1.1 - Coil identification code



2 - HYDRAULIC FLUIDS

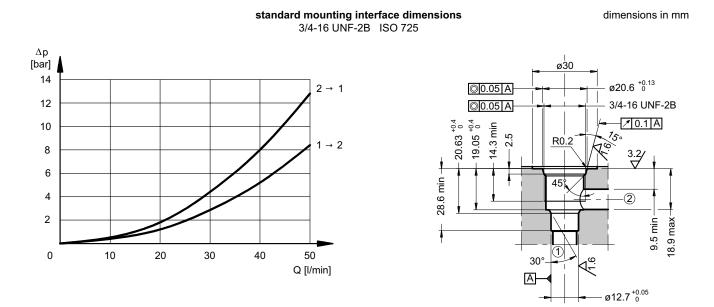
Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals (code N). For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other fluid types such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures 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.



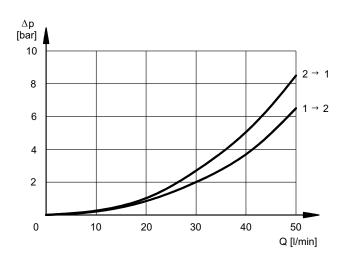
3 - PRESSURE DROPS Ap-Q

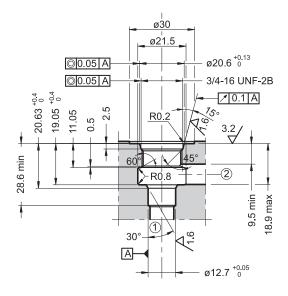
(obtained with viscosity of 36 cSt at 50 °C)

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



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

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.

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 grade, correctly connected and installed.

Versions with CM manual override are IP65 always.

Electric connection	IP65	IP66	IP67	IP68	IP69 IP69K (*)
K1 EN 175301-803	x	х			
K2 AMP JUNIOR	x		x		
K4 outgoing cables	x				
WK7 DEUTSCH DT04 male	x		x	х	x
WK8 AMP SUPER SEAL	х	х	х	х	х

(*) The protection degree IP69K is not taken into account in

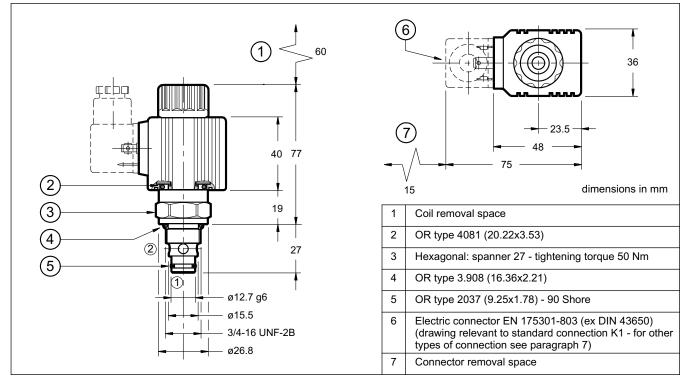
IEC 60529 but it is included in both ISO 20653.

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).

	Resistance at 20°C [Ω] (±1%)	Absorbed current [A] (±5%)		Absorbed power (±5%) [W] [VA]		K2	Coil code K4	WK7	WK8
D12	5,4	2,2	26,5		1902740	1902750	1902770	1903510	1903520
D24	20,7	1,16	27,8		1902741	1902751	1902771	1903511	1903521
R110	363	0,25		27,2	1902742				
R230	1640	0,11		26,4	1902743				

6 - OVERALL AND MOUNTING DIMENSIONS



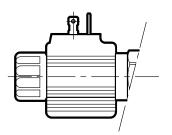


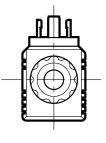
UAB "Domingos prekyba" www.dominga.lt/eshop email: info@dominga.lt

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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

7 - ELECTRIC CONNECTIONS





outgoing cable connections cable length = 1 mt

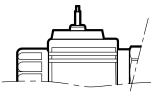
connection for AMP JUNIOR

connector type code K2

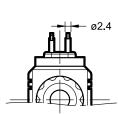
code K4

connection for EN 175301-803 (ex DIN 43650) connector type

code K1 (standard)

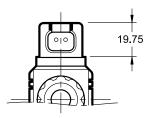


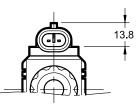
Β



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







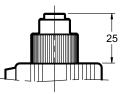
connection for AMP SUPER SEAL (two contacts) connector type code WK8

8 - ELECTRIC CONNECTORS

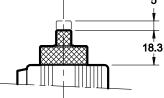
Solenoid valves are delivered without connectors. Connectors type EN 175301-803 (ex DIN 43650) for K1 connection can be ordered separately. See catalogue 49 000.

9 - MANUAL OVERRIDE

CM for NO version (pushing type)





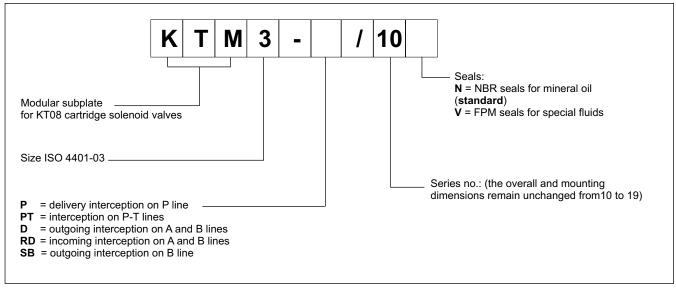




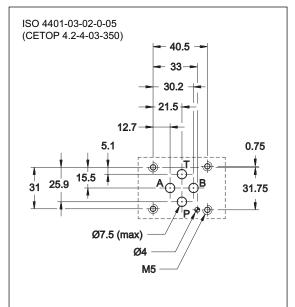
5/8

10 - SUBPLATES FOR MODULAR MOUNTING

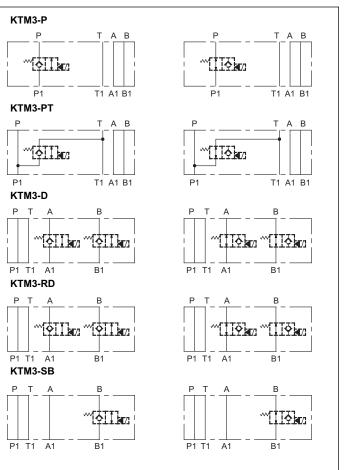
10.1 - Identification code



MOUNTING INTERFACE

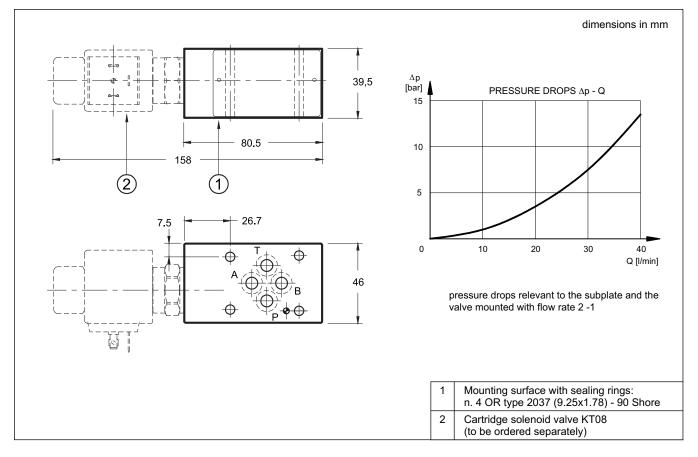


HYDRAULIC SYMBOLS

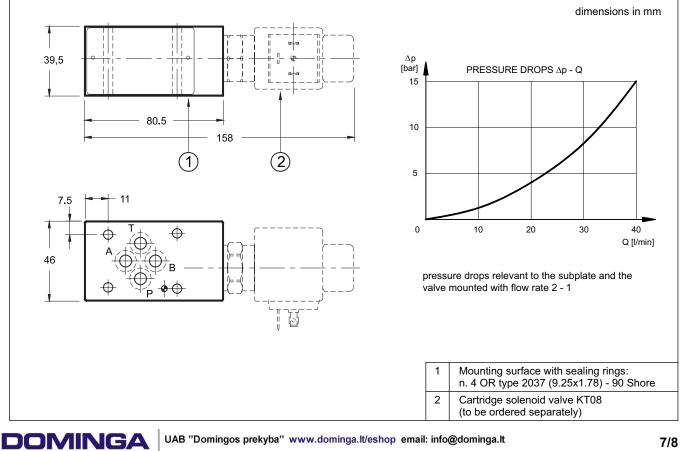




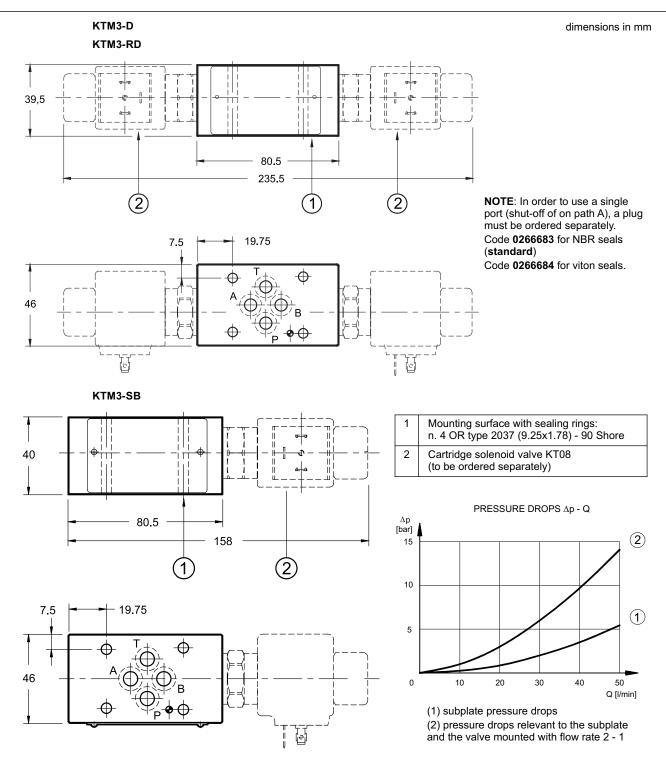
10.2 - Overall and mounting dimensions KTM3-P



10.3 - Overall and mounting dimensions KTM3-PT



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



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