

4 NOTES

1 Options

- A** = Solenoid mounted at side of port B (only for single solenoid valves). In standard versions, solenoid is mounted at side of port A.
WP = prolonged manual override protected by rubber cap - see section 11.



The manual override operation can be possible only if the pressure at T port is lower than 50 bar - see section 11.

WPD/H = manual override with detent, to be ordered separately, see tab. K150

FI, FV = with proximity or inductive position switch for monitoring spool position: see tab. E110.

MV, MO = auxiliary hand lever positioned vertically (MV) or horizontally (MO). For available configuration and dimensions see table E138.

2 Type of electric/electronic connector DIN 43650, to be ordered separately

666 = standard connector IP-65, suitable for direct connection to electric supply source.

667 = as 666, but with built-in signal led.

669 = with built-in rectifier bridge for supplying DC coils by alternate current (AC 110V and 230V - I_{max} 1A).

E-SD = electronic connector which eliminates electric disturbances when solenoid valves are de-energized.

3 Special shaped spools

- spools type **0** and **3** are also available as **0/1** and **3/1** with restricted oil passages in central position, from user ports to tank.
- spools type **1, 4, 5** and **58** are also available as **1/1, 4/8, 5/1** and **58/1**. They are properly shaped to reduce water-hammer shocks during the switching.
- spools type **1, 3, 8** and **1/2** are available as **1P, 3P, 8P** and **1/2P** to limit valve internal leakages.
- spool type **1/9** has closed center in rest position but it avoids the pressurization of A and B ports due to the internal leakages.
- Other types of spools can be supplied on request.

5 ELECTRIC FEATURES

External supply nominal voltage ± 10%	Voltage code	Type of connector	Power consumption (2)	Code of spare coil	Colour of coil label
				DHI	
6 DC	6 DC	666 or 667	33 W	COU-6DC/80	brown
9 DC	9 DC			COU-9DC/80	light blue
12 DC	12 DC			COU-12DC/80	green
14 DC	14 DC			COU-14DC/80	brown
18 DC	18 DC			COU-18DC/80	blue
24 DC	24 DC			COU-24DC/80	red
28 DC	28 DC			COU-28DC/80	silver
48 DC	48 DC			COU-48DC/80	silver
110 DC	110 DC			COU-110DC/80	black
125 DC	125 DC			COU-125DC/80	silver
220 DC	220 DC			COU-220DC/80	black
24/50 AC	24/50/60 AC		60 VA (3)	COI-24/50/60AC/80 (1)	pink
24/60 AC				COI-48/50/60AC/80 (1)	white
48/50 AC				COI-110/50/60AC/80 (1) COI-120/60AC/80	yellow
48/60 AC	white				
110/50 AC	230/50/60 AC 230/60 AC			COI-230/50/60AC/80 (1) COI-230/60AC/80	light blue
120/60 AC		silver			
230/50 AC	669	33 W	COU-110RC/80	gold	
230/60 AC			COU-230RC/80	blue	

(1) Coil can be supplied also with 60 Hz of voltage frequency: in this case the performances are reduced by 10 ÷ 15% and the power consumption is 55 VA.

(2) Average values based on tests performed at nominal hydraulic condition and ambient/coil temperature of 20°C.

(3) When solenoid is energized, the inrush current is approx 3 times the holding current. Inrush current values correspond to a power consumption of about 150 VA.

10 COILS WITH SPECIAL CONNECTORS only for voltage supply 12, 14, 24, 28 Vdc

AMP Junior timer connector	Deutsch connector DT-04-2P	Lead Wire connection
<p>Options -XJ Coil type COUJ, AMP Junior Timer connector Protection degree IP67</p>	<p>Options -XK Coil type COURK Deutsch connector DT-04-2P male Protection degree IP67</p>	<p>Options -XS Coil type COUS, Lead Wire connection Cable length = 180 mm</p>

Note: For the electric characteristics refer to standard coils features - see section 5

13 ELECTRIC CONNECTORS ACCORDING TO DIN 43650 (to be ordered separately)

666, 667 (for AC or DC supply)	669 (for AC supply)	CONNECTOR WIRING	
		666, 667 1 = Positive ⊕ 2 = Negative ⊖ ⊕ = Coil ground	669 1,2 = Supply voltage V _{AC} 3 = Coil ground
		SUPPLY VOLTAGES	
666 All voltages	667 24 AC or DC 110 AC or DC 220 AC or DC	669 110/50 AC 110/60 AC 230/50 AC 230/60 AC	

Note: for electronic connectors type **E-SD**, see tab. K500