

Part number:

**HYDROMA**

HYDRAULICKÉ SYSTÉMY

**HIDROMA  
SYSTEMS**

UKŁADY HYDRAULICZNE

**HYDROMA**

ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

## 7 - ELECTRICAL FEATURES

### 7.1 Solenoids

These are essentially made up of two parts: tube and coil. The tube is threaded into 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 ring, and can be rotated 360°, to suit the available space.

**NOTE 1:** In order to further reduce the emissions, use of type H connectors is recommended. These prevent voltage peaks on opening of the coil supply electrical circuit (see cat. 49 000).

#### Protection from atmospheric agents CEI EN 60529

Plug-in type	IP 65	IP 69 K
K1 DIN 43650	x	
K7 DEUTSCH DT04 male	x	x

**NOTE:** The protection degree is guaranteed only with the connector correctly connected and installed.

### 7.2 Current and absorbed power for DC solenoid valve

The table shows current and power consumption values relevant to the different coil types for DC.

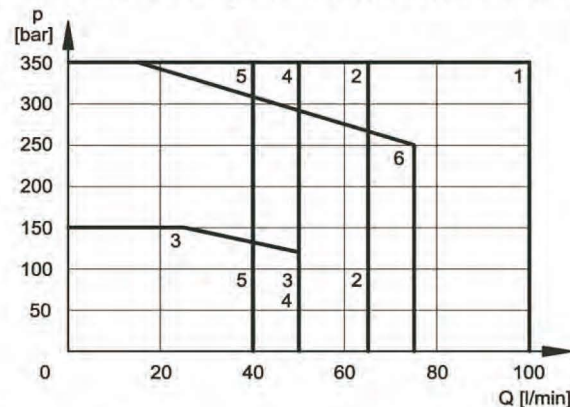
The rectified current supply takes place by fitting the valve (with the exception of D12 coil) with an alternating current source (50 or 60 Hz), rectified by means of a bridge built-in to the "D" type connectors (see cat. 49 000), by considering a reduction of the operating limits (see diagram below).

#### Coils for direct current (values ±5%)

	Nominal voltage [V]	Resistance at 20°C [Ω]	Current consumpt. [A]	Power consumpt. [W]	Coil code	
					K1	K7
<b>D12</b>	12	4,4	2,72	32,6	1902860	1902940
<b>D24</b>	24	18,6	1,29	31	1902861	1902941
<b>D48</b>	48	78,6	0,61	29,3	1902863	
<b>D110</b>	110	423	0,26	28,6	1902864	
<b>D220</b>	220	1692	0,13	28,6	1902865	

#### Operating limits for DC solenoid valves fed with AC by means of connectors with built-in rectifier bridge.

SPOOL TYPE	CURVE	
	P-A	P-B
S1. SA1. SB1	1	1
S2. SA2. SB2	2	2
S3. SA3. SB3	3	3
S4. SA4. SB4	4	4
S9	6	6
TA. TB	5	5
RK	1	1



### 7.3 Current and absorbed power for AC solenoid valve

The table shows current and power consumption values at inrush and at holding, relevant to the different coil types for AC current.

#### Coils for alternating current (values ± 5%)

Suffix	Nominal voltage [V]	Frequency [Hz]	Resistance at 20°C [ohm]	Current consumption at inrush [A]	Current consumption at holding [A]	Power consumption at inrush [VA]	Power consumption at holding [VA]	Coil code
<b>A24</b>	24	50	1,46	8	2	192	48	1902830
<b>A48</b>	48	50	5,84	4,4	1,1	204	51	1902831
<b>A110</b>	110V-50Hz	50/60	32	1,84	0,46	192	48	1902832
	120V-60Hz			1,56	0,39	188	47	
<b>A230</b>	230V-50Hz		140	0,76	0,19	176	44	1902833
	240V-60Hz			0,6	0,15	144	36	
<b>F110</b>	110	60	26	1,6	0,4	176	44	1902834
<b>F220</b>	220		106	0,8	0,2	180	45	1902835