



**DIPLOMATIC
HYDRAULICS**

49 000/104 ED



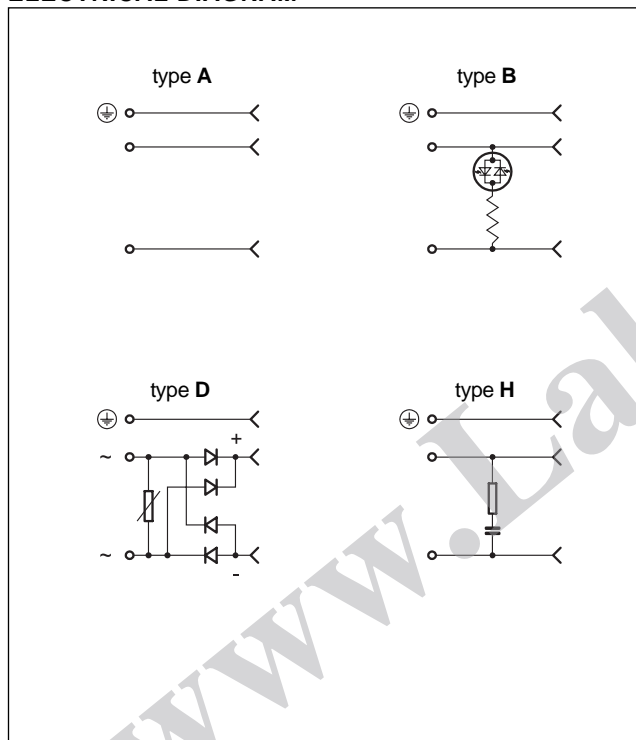
EC ELECTRIC CONNECTORS SERIES 10

DIN 43650

ISO 44000

type A

ELECTRICAL DIAGRAM



DESCRIPTION

- The EC connectors, according to DIN 43650 and ISO 44000, are in the model "A" configuration and are used mainly for the electrical connection of valve solenoids.
- When they are correctly installed and coupled they provide waterproof protection according to EN60529 specifications, class of protection IP65.
- The class of insulation is therefore in compliance with VDE 01101/89 specifications, operating voltage up to 250 Volt.
- The wire terminal block can be extracted from the external housing to allow the wire connections to the relative clamps to be made and allow the gland orientation as regards the electrical contacts to be turned through 90° as necessitated by the wiring (except version H).
- The EC connectors are available in four different types with specific functions:
 - type A, connector two poles + ground
 - type B, with lamp (available in 10 ÷ 50 and 70 ÷ 250 voltages)
 - type D, with bridge rectifier
 - type H, with RC damping circuit
- They are available in two colours, grey and black, to distinguish the mounting on solenoid "a" or "b" ports. (except version "b" in which they are transparent)
- They are supplied with M3 fastening bolt and NBR gasket.

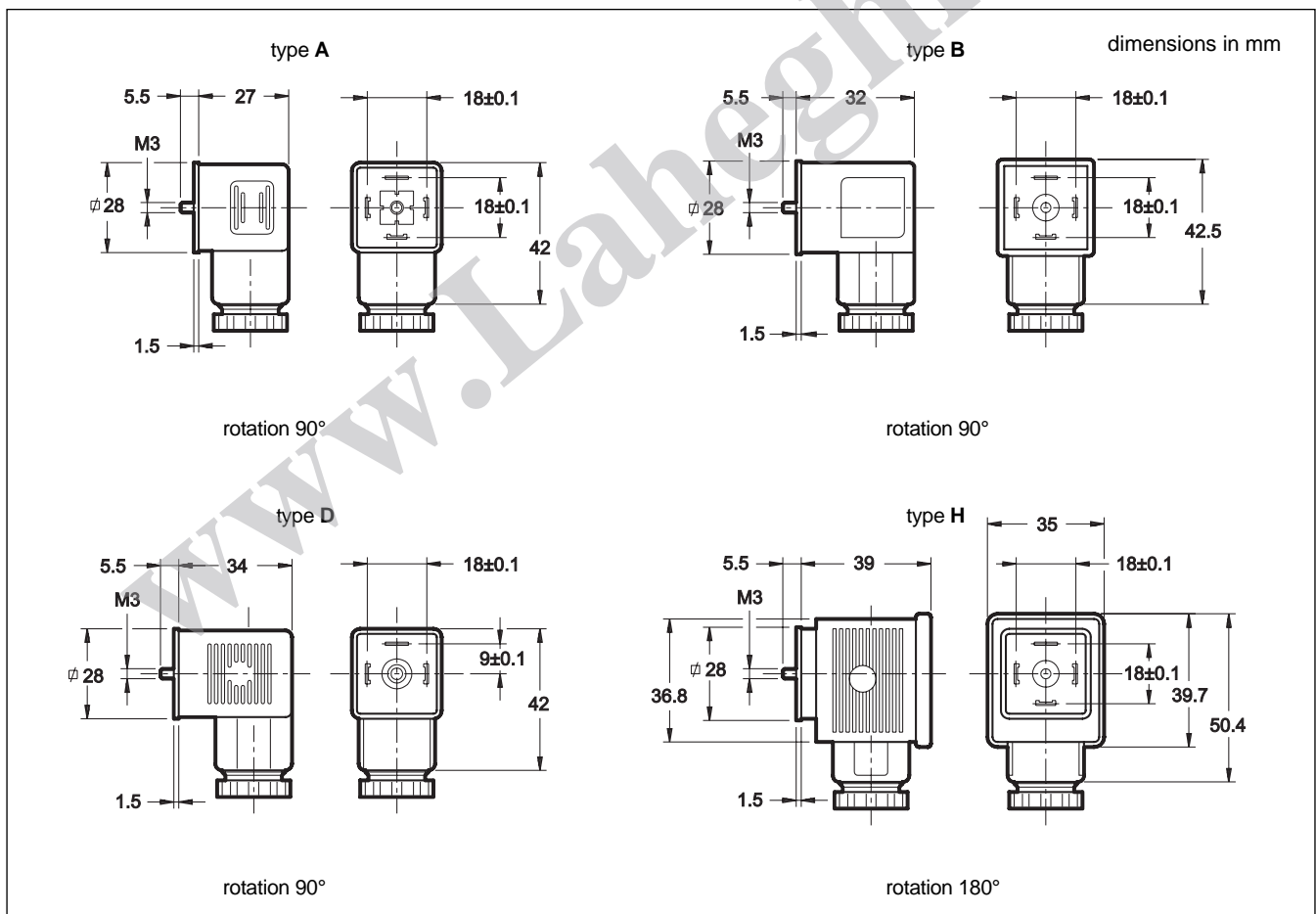
| SPECIFICATIONS | | type A | type B | type D | type H |
|---------------------------------|-----------------|----------------|--------------------|-----------|-----------|
| Operating voltage | VCC - VCA | up to 230 | 10 ÷ 50 / 70 ÷ 250 | up to 230 | up to 230 |
| Number of connections | | 2 + ground | | | |
| Current on connections | nominal | | 10 | | |
| | maximum | A | 16 | | |
| Contact resistance | mΩ | | ≤ 4 | | |
| Maximum conductor cross section | mm ² | | 1,5 | | |
| Wire external diameter | mm | | 6 ÷ 8 | | |
| Gland dimension | | Pg 9 | | | |
| Protection class | | IP 65 EN 60529 | | | |
| Insulation class | | VDE 0110-1/89 | | | |
| Operating temperature | ° C | - 40 ÷ + 90 | | | |



1 - IDENTIFICATION CODE

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|---|---|--|---|----|---|----|--|
| | <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">E</td> <td style="padding: 5px;">C</td> <td style="padding: 5px;">/</td> <td style="padding: 5px;">/</td> <td style="padding: 5px;">10</td> </tr> </table> | E | C | / | / | 10 | |
| E | C | / | / | 10 | | | |
| DIN 43650 electric connector | | Series No. (the overall and mounting dimensions remain unchanged from 10 to 19) | | | | | |
| Connector type | | A = grey colour for solenoid side a B = black colour for solenoid side b N = transparent for both solenoids | | | | | |
| A = connector two poles + ground B1 = connector two poles + ground with lamp which turns on when the solenoid is energized power supply voltage 10 ÷ 50 VDC/VAC B2 = connector two poles + ground with lamp which turns on when the solenoid is energized power supply voltage 70 ÷ 250 VDC/VAC D = connector two poles + ground with Graetz bridge rectifier: the choice of this type of connector need an alternating current power supply and the use of CCR and RAC direct current coils. H = connector two poles + ground with RC damping circuit , to avoid voltage peaks as circuit opening, suitable for alternating and direct current coils. | | | | | | | |
| N.B. For A - D - H connector types no need to specify operating voltage as the power supply voltage is up to 230 V. | | | | | | | |

2 - OVERALL AND MOUNTING DIMENSIONS



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| DIPLOMATIC HYDRAULICS | <p>DIPLOMATIC OLEODINAMICA SpA 20025 LEGNANO (MI) - P.le Bozzi, 1 / Via Edison Tel. 0331/472111 - Fax 0331/548328</p> |
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