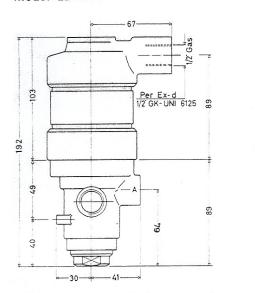
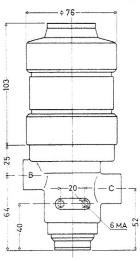
# MORREL INTERNATIONAL S.R.L.

# DIRECT ACTING THREE WAY SOLENOID VALVES

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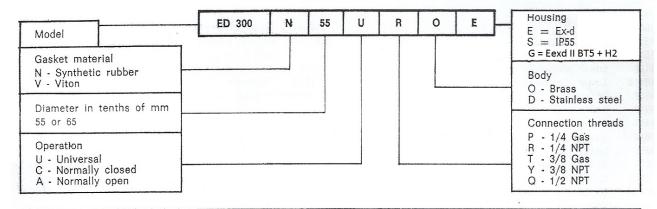
Model ED 300 Table 308





Model	Maximum Operating Pressure Kg/sq.cm.	Kv flow factor	Operation
ED 300 - 55 U	10	7,4	
ED 300 - 65 U	7	10	MZ I
ED 300 - 55 C	15	7,4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ED 300 - 65 C	12	10	M/ II

### Identification symbols



### Specifications

Solenoid valves model ED/300 are specifically designed for fluid systems, and in particular for systems operated by dry air. Their rugged construction makes them suitable for field installation.

The absence of any packing gland and the fact that moving parts are in direct contact with the controlled fluid prevent any possibility of trouble due to oxidation caused by atmospheric substances.

#### Construction

Valve-seat gaskets consist of O-ring not subject to axial movements. Internal parts in stainless steel, brass body. Weight: 3,15 Kg.

#### Morrel International S.r.I Tel. +39 023560433

Tel. +39 023560433 Tel. +39 023560452 Fax +39 023562627 E-mail: morrel\_int\_srl@yahoo.it

#### Electrical characteristics

Solenoid coil wound with double-enamel Class H wire, absorbed power 28 Watts. 12 to 380 V voltage. 10% tolerance. Due to their particular design, these valves can only operate with direct current. In case of alternating current, a terminal board can be provided which includes a bridge rectifier and a recycling diode.

Model R2/L for normal and waterproofing sealing, R2/E for Ex-d. (CESI Certificate AD/82-204).

# Optionals

IP55 waterproof solenoid enclosure.

Ex-d explosion-proof solenoid enclosure (CEI Standards 31.1 IIB T5) CESI Certificate AD82-203 and AD83-231 for Gr. IIb + H2 T5.

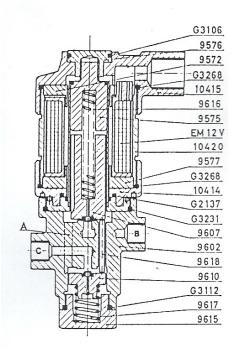
# MORREL INTERNATIONAL S.R.L.

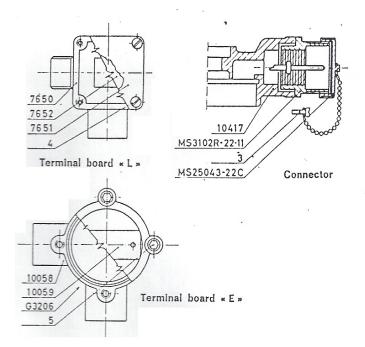


# DIRECT ACTING THREE WAY SOLENOID VALVES

Model ED 300

Table 308 A





#### Nomenclature

9602	Body	10420	Skirt
9572	Upper washer	G3231	OR gasket
10415	Upper electromagnet cover	G3268	OR gaskets (2 pieces)
9575	Core guide	R2	Rectifier plate for AC operation
9576	Electromagnet locking ring	3	3MA x 10 UNI 6107 screw (4 pieces)
9577	Lower washer	10417	Upper electromagnet cover
10414	Lower electromagnet cover	MS3102	Connector
9607	Movable core	MS25043	Terminal board « L »
9610	Lower plug	7650	Connector cover
9615	Stopper	7651	Terminal board « L » cover
9616	Upper spring	7652	Terminal board « L » gasket
9617	Lower spring	4	TCB 2.9 x 13 screws (4 pieces)
9618	Pins (3 pieces)	10058	Terminal board « E »
EM12	Coil	10059	Terminal board « E » cover
G2137	OR gasket	G3206	Terminal board « E » gasket
G3106	OR gasket	5	DIN 912 - 5MA x 15 screws
G3112	OR gasket		

# Operation

The three 9618 pins transmit the axial movement of movable core 9607 to plug 9610. Spring 9616, having a higher load, keeps spring 9617 compressed, passegeway A-C open and passageway A-B closed. By exciting the coil, core 9607 is withdrawn, spring 9616 is compressed, valve seat 9610 is displaced and blocks passageway A-C while opening passageway A-B.

### Maintenance

Due to the absence of friction and parts requiring lubrication, this valve can operate for long periods of time with no maintenance. Should foreign matter penetrate

within the valve, it can be removed after the latter is disassembled.

Use a spanner to unscrew locking ring 9576 and core guide 9575.

The coil assembly can be completely withdrawn after removal of ring 9576.

The lower locking ring can be removed after stopper 9615 has been unscrewed.

Valve seat O-rings need not be replaced because they are practically not subjected to mechanical stresses and their wear is therefore irrelevant.

Should any part need replacement, address your requests to Morrel S.r.l. making reference to drawing no. 9601, indicating the relevant part number and specifying the full valve model number.

Morrel International S.r.l. Tel. +39 023560433

Tel. +39 023560452 Fax +39 023562627 E-mail: morrel\_int\_srl@yahoo.it