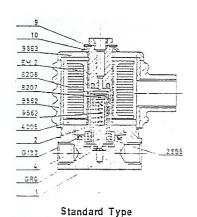
## MORREL INTERNATIONAL S.R.L.

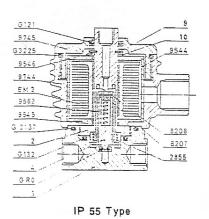


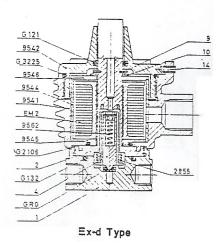
## DIRECT ACTING THREE WAY SOLENDID VALVES

Model E/303 INOX

Table 7611







1528 15 9873 9871-2 6101 16

Manual Operator

#### Nomenclature

1	Body iNOX	9545	Lower cover of Ex-d TS electromagnet
2	Core guide INOX	9546	Upper cover of Ex-d TS electromagnet
4	Core	9744	External TS skirt
9	Fastener		
10	Spring washer	9745	Cover of TS skirt
11	Internal spring	9862	External STD skirt
12	Pin 100X	9863	Upper cover of STD electromagnet
13	Bush	9871-2	Pin
14	UNI5927 M4x6 screw	9873	Pin .
15	3/16" ball	EM2	Coil
16	DIN915 M3x5 dowel	GR0	O-Ring gasket
1529	Spring	G101	O-Ring gasket
2855	Spring	G121	O-Ring gasket
4005	Lower cover of STD electromagnet	G132	
9541	Ex-d outer skirt		O-Ring gasket
9542		G2106	O-Ring gasket
	Cover of Ex-d skirt	G3225	O-Ring gasket
9544	External TS skirt	G4137	O-Ring gasket

### Operation

Core 4, which is an integral part of solenoid, bears the inlet block and the outlet gasket. Spring 11 provides the stress for the preload of the outlet gasket.

By exciting the coil, core 4 is drawn upwards. The inlet is thus connected with the using circuit and the outlet is closed by gasket 6.

De-excitation of the coil causes spring 2855 to move the core back to its original position, connecting the using circuit with the outlet.

The reciprocal operation applies in case of normally open models.

#### Maintenance

The simple design of these valves and the absence of a packing gland ensure long periods of operation not re-

quiring any maintenance.

Should some component be replaced or the interior cleaned, proceed as follows.

Remove fastener 9 and withdraw the whole electromagnet assembly.

In case of waterproofed TS valves or explosion-proof Ex-d valves, you must first unscrew housing cover 9745 or 9542, respectively.

Unscrew core guide 2 using a spanner using only the two holes at the base of this component.

After having performed the required maintenance, reassemble following the same steps in reverse.

Should any component part need replacement, contact Morrel Srl making reference to drawing No. 7611, indicating the relevant component number and the full model and version numbers of the valve.

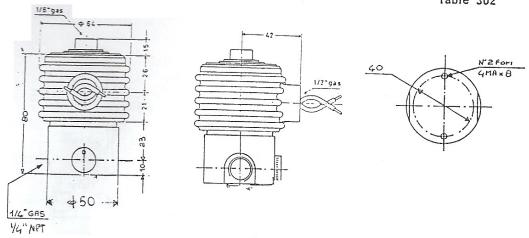
# MORREL INTERNATIONAL S.R.L.



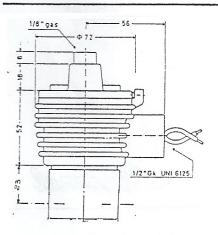
## DIRECT ACTING THREE WAY SOLENDID VALVES

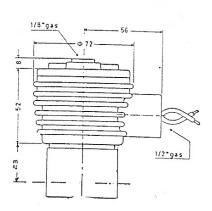
Model E,'303

Table 302



Standard Type.

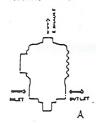


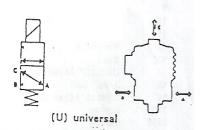


Ex-d Type

TS IP 55 Type

### Version





### Specifications

Direct acting three-way solenoid valves model E/303 are particularly suitable for controlling small simple-action pistons or spring-loaded, pneumatically operated valves. Version B can be directly screwed on top of pneumatically operated valves.

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

#### Usa

Suitable for air, water, oil or other fluids compatible with the materials used in the valve construction. Operating pressure from 0 to 12 Kg/sq.cm. for normally-closed and normally open valves, from 0 to 4 Kg/sq.cm. for universal valves.

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### Construction

Gaskets In Buna N (Viton optional on equest). Internal parts In stainless steel, forged brass body. Weight 1 Kg.

### Electrical characteristics

Solenoid coll wound with double-enamel Class H wire. Absorbed power for AC operation is 15 VA on closing and 50 VA at start, 12 Watts for DC operation. 12 to 380 V voltage. 10% tolerance.

## Optionals

AISI 316 or 304 stainless steel body.

IP55 waterproof solenoid enclosure.

Model EM2.A explosion-proof solenoid enclosure (CEI Standards 31.1 Gr. IIB T5).

CESI Certificate AD-910/74.