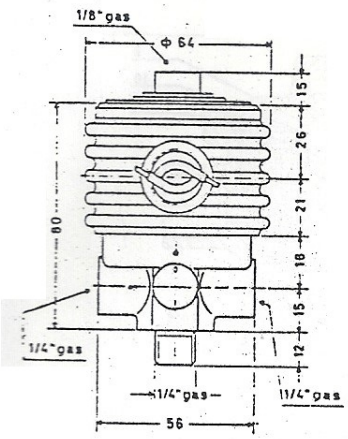
MORREL INTERNATIONAL S.R.L.

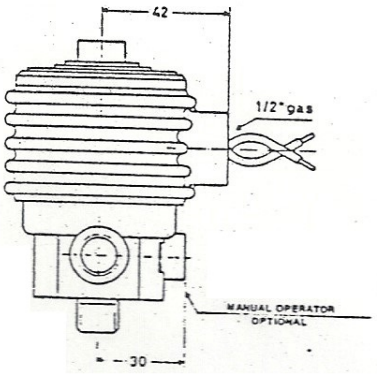
Ex dal 1953 Since

DIRECT ACTING TWO WAY SOLENOID VALVES

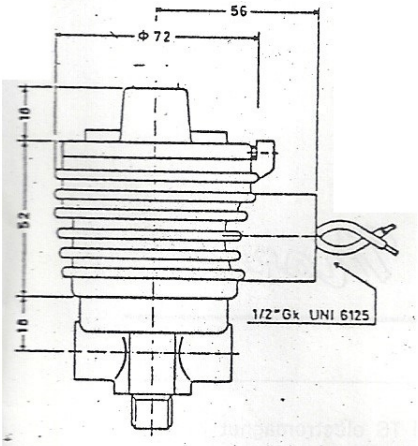
Model E/203

Table 201



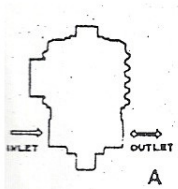


Standard Type.

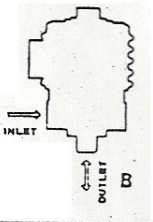


Ex-d Type TS IP-55

Version



A



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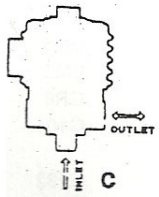

C

Specifications

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.
1/4" body joints

Use

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.

Construction

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

Electrical characteristics

Solenoid coil 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

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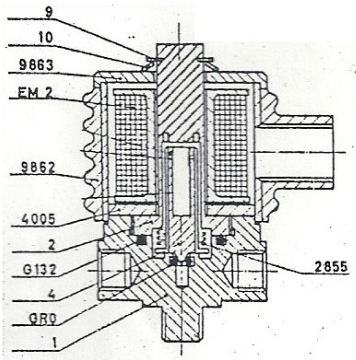
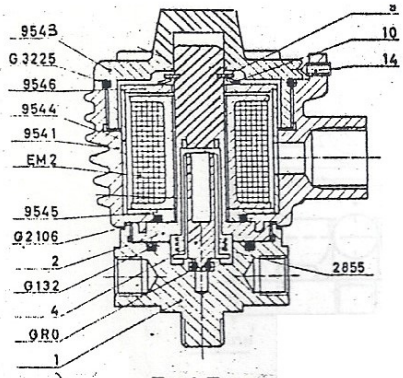
DIRECT ACTING TWO WAY SOLENOID VALVES

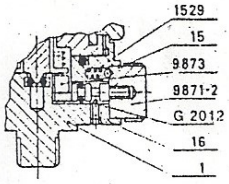
Model E/203 **Table** 201-A



Standard Type



Ex-d Type



Manual Operator

Nomenclature

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

Operation

Core 4, which is an integral part of solenoid, bears the inlet gasket.

By exciting the coil, core 4 is drawn upwards. The inlet is thus connected with the using circuit

De-excitation of the coil causes spring 2855 to move the core back to its original position, closing the inlet.

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 requiring 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 9543

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. 201-A, indicating the relevant component number and the full model of the valve.

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