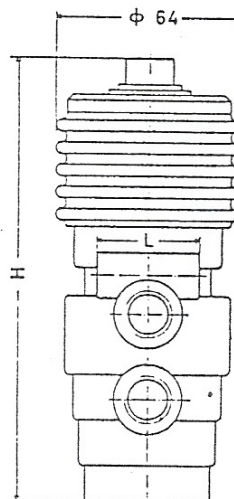
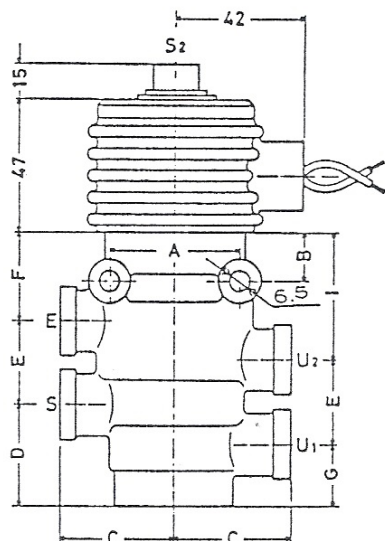


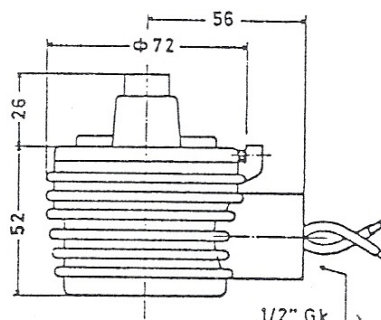
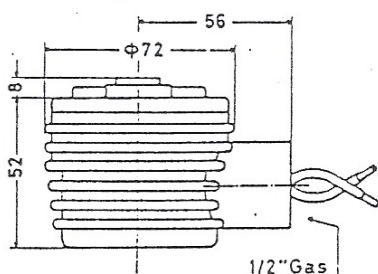
## FOUR WAY INTERNAL PILOT SOLENOID VALVES

Model E/ 452 + 4502

Table 411



### Coil housings



Weather proof TS IP-55

Explosion proof EEXD

Model code	Net orifice				Overall dimension									
	Connections	area	Kv	Weight	A	B	C	D	E	F	G	H	I	L
E/452	1/4" gas	50 mmq.	16	1,9	48	17	43	36	30	32	22	160	46	36
E/482	3/8" gas	80 mmq.	25	1,9	48	17	43	36	30	32	22	160	46	36
E/4152	1/2" gas	150 mmq.	48	2,4	52	17	47	43	38	35	24	178	54	40
E/4302	3/4" gas	300 mmq.	90	3,5	62	15	55	57	53	39	31	211	65	42
E/4502	1" gas	500 mmq.	150	4	64	15	56	61	60	39	30	222	70	42

### Specifications

The main characteristics of these valves for lubricated air only, are great strenght and fast action, over 1000 shifts for minute. Suitable for controlling double action air rams operating within 1.5 and 12 BAR. When solenoid is not energized, inlet E is connected with outlet U1 and outlet U2 is connected with exhaust S; when solenoid is energized, connections are inverted.

### Constructive details

Bronze body, brass and st. st. internal parts Buna-N seals, coil protection IP-40 according to IEC standards.

### Electrical characteristics

Solenoid coil made according to CEI standards with two coats enameled class H wire; available for direct current from 12 to 120 V, adsorbed power 12 W, or for alternating current from 12 up to 380 V, adsorbed power 15 VA (50 VA in-rush) for continuous service.

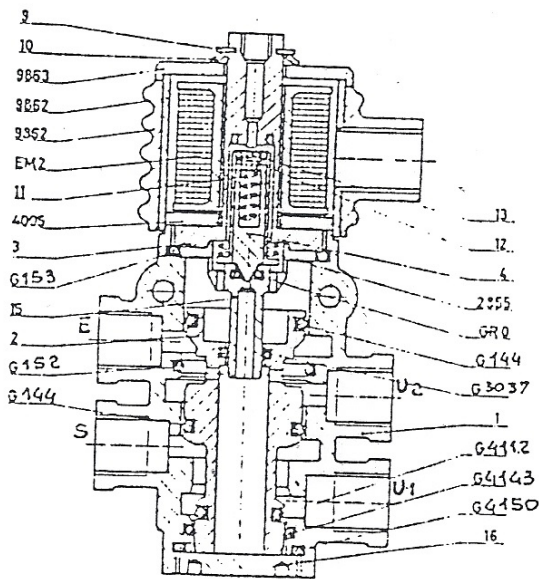
### Optionals

Viton seals- IP-55 waterproof solenoid enclosure-EEXD explosion proof solenoid enclosure according to CEI standards with CESI certificate for GR II B T5 n° AD.82-203- Condulets as in table 610.

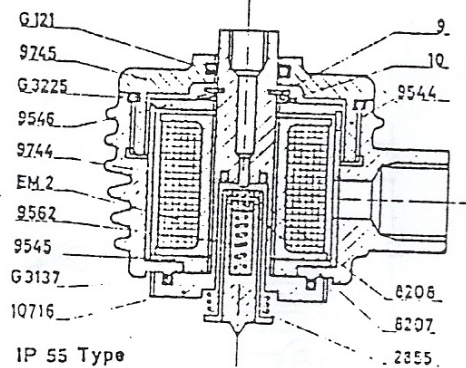
## FOUR WAY INTERNAL PILOT SOLENOID VALVES

Model E/452 ÷ 4152-

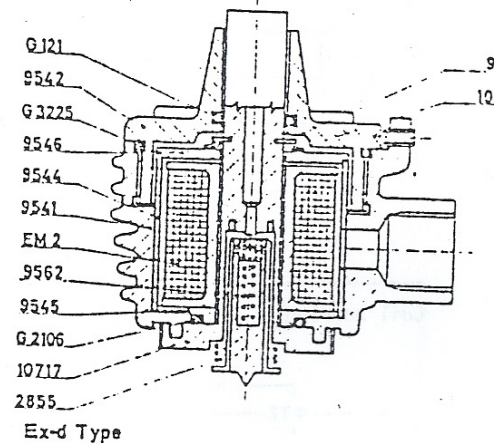
Table 411 A



Standard Type



IP 55 Type



Ex-d Type

### Nomenclatura

1- 1406	Body E/ 452
1- 1325	Body E/ 4152
16-1369	Bottom plug
2-1367	Stem E/4152
2-1850	Stem E/452
2855	Spring
15-7297	Nozzle
4-10351	Moving core
8207	Core bushing
8208	Core pin
11-9562	Inside core spring
3-10722	Core guide EEXD
3-10721	Core guide TS-STD
9	Fastener
10	Spring washer
9541	EM2A EEXD External skirt
9744	EM2A TS external skirt

9862	EM2A STD external skirt
9542	EEXD skirt cover
9745	TS skirt cover
9544	Internal skirt
9545	EM2A EEXD-TS bottom washer
9546	EM2A EEXD-TS top washer
4005	EM2A STD bottom washer
9863	EM2A STD top washer
EM2	Coil
G153	O-Ring seal
G152	O-Ring seal
G144	O-Ring seal
G3037	O-Ring seal
G4112	O-Ring seal
G4143	O-Ring seal
G4150	O-Ring seal
GRO	O-Ring seal

### Operating Principle

When coil is not energized, outlet U1 is connected with inlet E, exhaust S with outlet U2. By energizing the coil, moving core 10351 moves upward thus opening the orifice on nozzle 15; pressure operates downward the stem 2, which connects inlet E with outlet U2, exhaust S with outlet U1.

### Maintenance

Should any component be replaced or the interior be cleaned, proceed as follows: remove fastener 9 and draw out the whole electromagnetic assembly. In case of waterproof TS or

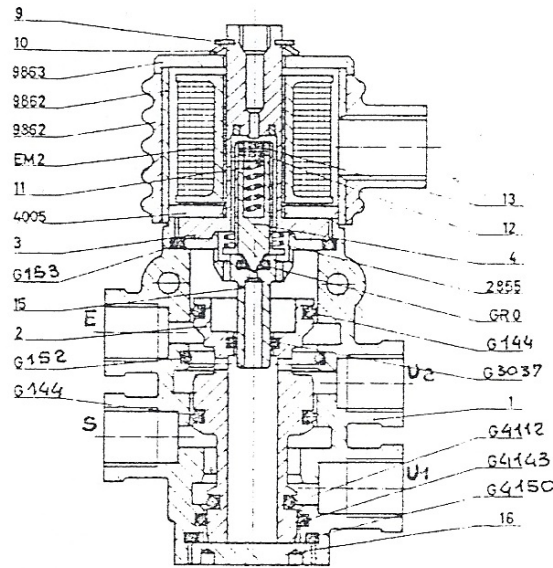
explosion-proof EEXD valves, firstly unscrew housing cover 9745 or 9542. After that, unscrew the core guide 3 by means of a key Gedore, clamping only the two holes existing on the base of this component. By means of an expandable key, draw out nozzle 15 and stem 2 in order to change seals or the same components. After having performed the required maintenance, reassemble the valve by following the reverse procedure. When spare parts are ordered, always specify the number of this drawing, the part number and the full code of the valve.



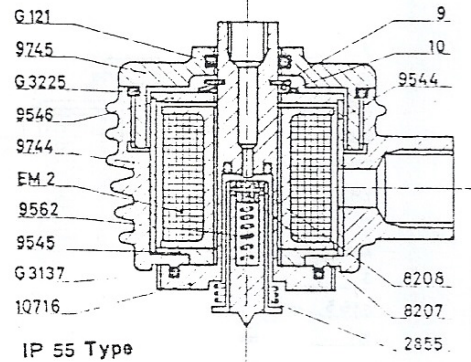
## FOUR WAY INTERNAL PILOT SOLENOID VALVES

Model E/4302 - 4502

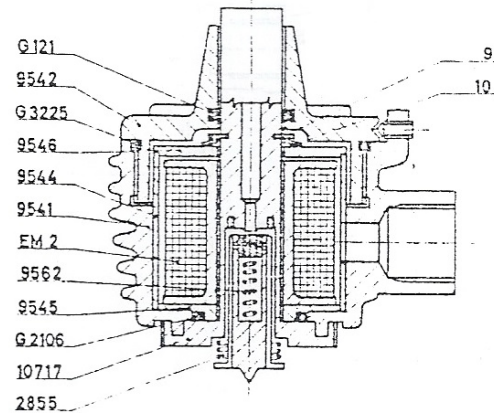
Table 411 B



Standard Type



IP 55 Type



Ex-d Type

### Nomenclatura

1-1365	Body E/4302	9862	EM2A STD external skirt
1-1848	Body E/4502	9542	EEXD skirt cover
16-1369	Bottom plug	9745	TS skirt cover
2-1367	Stem E/4302	9544	Internal skirt
2-1850	Stem E/4502	9545	EM2A EEXD-TS bottom washer
2855	Spring	9546	EM2A EEXD-TS top washer
15-7297	Nozzle	4005	EM2A STD bottom washer
4-10351	Moving core	9863	EM2A STD top washer
8207	Core bushing	EM2	Coil
8208	Core pin	G153	O-Ring seal
11-9562	Inside core spring	G152	O-Ring seal
3-10722	Core guide EEXD	G144	O-Ring seal
3-10721	Core guide TS-STD	G3037	O-Ring seal
9	Fastener	G4112	O-Ring seal
10	Spring washer	G4143	O-Ring seal
9541	EM2A EEXD External skirt	G4150	O-Ring seal
9744	EM2A TS external skirt	GRO	O-Ring seal

### Operating Principle

When coil is not energized, outlet U1 is connected with inlet E, exhaust S with outlet U2. By energizing the coil, moving core 10351 moves upward thus opening the orifice on nozzle 15; pressure operates downward the stem 2, which connects inlet E with outlet U2, exhaust S with outlet U1.

### Maintenance

Should any component be replaced or the interior be cleaned, proceed as follows: remove fastener 9 and draw out the whole electromagnet assembly. In case of waterproof TS or

explosion-proof EEXD valves, firstly unscrew housing cover 9745 or 9542. After that, unscrew the core guide 3 by means of a key Gedore, clamping only the two holes existing on the base of this component. By means of an expandable key, draw out nozzle 15 and stem 2 in order to change seals or the same components. After having performed the required maintenance, reassemble the valve by following the reverse procedure. When spare parts are ordered, always specify the number of this drawing, the part number and the full code of the valve.