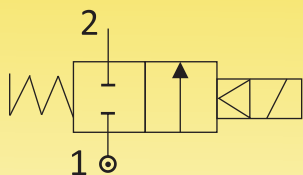




SOLENOID VALVES FOR STEAM DUTY.

2/2 WAY – NORMALLY CLOSED – INTERNAL PILOT OPERATED DIAPHRAGM TYPE, WITHOUT MANUAL OVERRIDE.

SERIES R170D

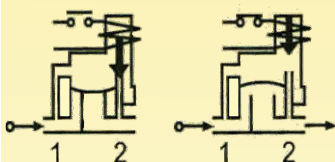


N.C.

Normally Closed

Coil energised - Open

Coil de-energised - Closed



General Description:

Series R170D Solenoid Valves are Diaphragm Pilot Operated and require very low minimum differential pressure to operate. Valves are used on application with High Flow Rate. Valves are suitable for general application with media such as Water, Hot Water, Steam provided they are compatible with construction material of the valve.

End connection:

'G'-ISO-228 (BSP)& NPT.

Max. Temperature range:

For media is (-)5°C & Max. with Silicon Diaphragm: 150°C. Max. with Viton Diaphragm: 150°C. ambient temperature with Class 'H' coil (+)42°C.

Mounting Bracket: Mounting Brackets are available as accessory.

Application: Chemical, Textile, Pharma Machinery, air dryer, Cleaning equipment and others.

Coils: Series R170D Solenoid Valves are available in Class 'H' insulated (180°C) coil; encapsulated in Thermo Plastic, containing 30% Glass filled. All coils are for continuous service for intermittent 100% duty (E.D). Rated voltage tolerances are +10%/-15% for all AC power coils; +10%/-15% for DC supply. SQ-Coils are suitable for Connectors Form 'A' & 'B' (ISO4400) according to EN 175301-803 and Protection Class IP 67 as per IEC-60529-2001.

Approvals: M36 Coils are CE, EMI/EMC approved. Available for voltage range 220/230/240/110/48/24V 50/60Hz AC and 220/110/24V DC. For approval information, please refer to page no.22.

Materials:

Valve Body : ASTM A351 Gr.CF8 and ASTM A351 Gr.CF8M.
Seals (Seating) : Silicon / Viton.
Tube Nut : AISI SS 316.
Plunger & Stopper : AISI SS 430FR,
Spring : AISI SS 302.
Shading Ring : For AC: Copper
: For DC: No shading ring.
Standard Coil Type: AC - M36-SQ: 240, 110 V
50 Hz, Rating: 14 VA,
DC- M36-SQ:
Rating: 10.5 Watts.

NOTE

- : 1) Use of fine gauge filter in the inlet side is highly recommended.
- : 2) Valves not recommended for installation in inlet side of Pump.
- : 3) Do not install bigger size of Solenoid Valve on smaller size pipeline.
- : 4) Manual Override Not Available.
- : 5) Valve may not function if prime steam (Wet steam) is supplied.

Installation: Valves can be mounted in any position except "Inverted", preferably in Horizontal pipeline with magnetic construction in vertical and upright position. Series R170D Solenoid valves are not designed for Back Pressure coming from downstream side.

SPECIFICATIONS:

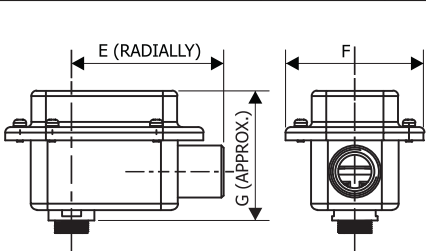
Series	Size 'G' thr	Orifice Size	Flow Factor Kv	Body Material	Seat	BTP	Working Pr.(bar)		Coil Type (HT)	Coil Rating		Constr. Ref. No	Weight (kgs)
										VA	Watt		
R170D	Inch	mm	M ³ /hr.			bar	min	max		~	=		
10	3/8	15	3.0	CF8	Si / V	25	0.3	6	M36-SQ	14	10.5	711	0.533
15	1/2	15	3.0	CF8	Si / V	25	0.3	6	M36-SQ	14	10.5	711	0.589
20	3/4	20	8.0	CF8	Si / V	25	0.3	6	M36-SQ	14	10.5	711	0.859
25	1	25	9.5	CF8	Si / V	25	0.3	6	M36-SQ	14	10.5	711	0.942
35	1 1/2	35	30	CF8	Si / V	25	0.3	6	M36-SQ	14	10.5	711	2.5
50	2	50	37.5	CF8	Si / V	25	0.3	6	M36-SQ	14	10.5	711	2.5

*Weight of CF8 Valve Body with SQ coil.

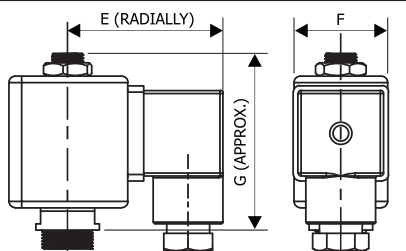


NOTE: Valves suitable for AC and DC supply are different in characteristics and construction. No Interchanging of coils between DC to AC or AC to DC possible. DO NOT INTERCHANGE COILS.
Minimum details required for submitting offer: Size, Body material, seating, medium name, Flow (M3/hr), pressure (bar), temp. Deg.C, coil voltage AC or DC, Quantity (Nos), etc.

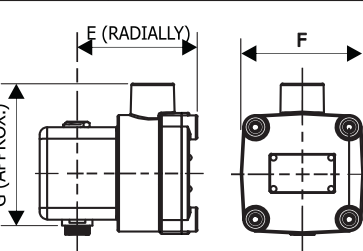
COIL TYPE	POWER CONSUMPTION & WATT RATING			Class of Insulation	Protection	Certification Standard
	AC		DC			
	VA Holding	Watts	Watts			
M36-SQ-GP/SQ-WP67	13.5	8	10.5	H	GP/WP-IP-67	IS/IEC 60529-2001
M36-RD/WP67	13.5	8	10.5	H	WP-IP-67	IS/IEC 60529-2001
M36-RD/FLP-IIC + IP66/IP67	13.5	8	10.5	H	FLP-IIC+IP66/IP67	IS/IEC 60079-1-2014



M36 WP

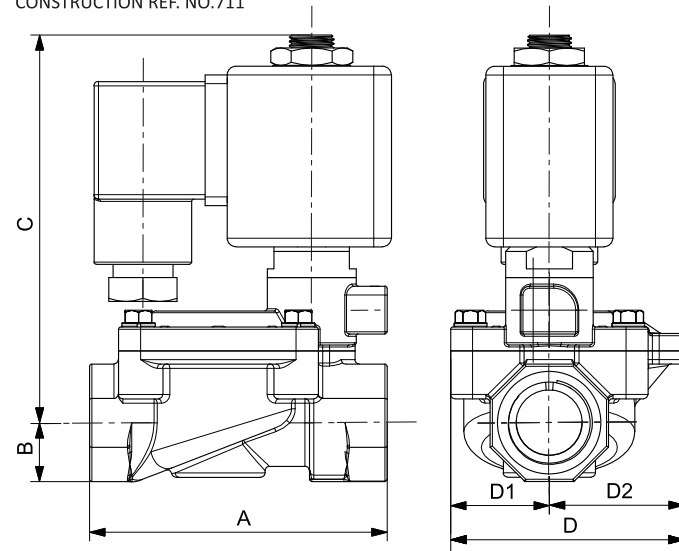


M36 SQ COIL



M36 FLP

CONSTRUCTION REF. NO.711



CATALOGUE NO.	Size	DIMENSION IN MM					
		A	B	C	D	D1	D2
R170D 10	3/8"(IC)	67	13	89	53	22	31
R170D15	1/2"(IC)	67	13	89	53	22	31
R170D 20	3/4"(IC)	93	17	95	76	33	43
R170D 25	1"(IC)	102	20	98	76	33	43
R170D 35	1 1/2"(IC)	135	30	105	104	50	54
R170D 50	2"(IC)	160	35	115	132	64	68

List Of Approvals

APPROVAL	IP 67	TYPE 4X, 6P	Exd mb IIC T6 Gb	Exia IIC T6	Exd Tb IIIC T6 Gb	DGMS	PESO
ISI	✓		✓	✓			✓
CE	✓		✓		✓		✓
UL							
GOST							
IECEX			✓		✓		
ATEX			✓		✓		

CATALOGUE NO.	PIPE SIZE	CONSTR. REF.	E (RADIALLY)			F			G		
			SQ	RD WP	FLP	SQ	RD WP	FLP	SQ	RD WP	FLP
			M36	M36	M36	M36	M36	M36	M36	M36	M36
R170D10	3/8	711	49	73	80	30	67	62	56	58	78
R170D15	1/2	711	49	73	80	30	67	62	56	58	78
R170D20	3/4	711	49	73	80	30	67	62	56	58	78
R170D25	1	711	49	73	80	30	67	62	56	58	78
R170D35	1-1/2	711	49	73	80	30	67	62	56	58	78
R170D50	2	711	49	73	80	30	67	62	56	58	78

Note:
 Technical specifications, details & dimensions are subject to change without prior notice.
 Dimensions in the table are approximate subject to final confirmation by AVCON.

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