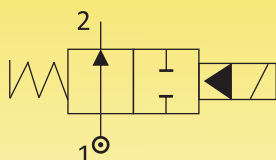


SOLENOID VALVES FOR STEAM DUTY.

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

SERIES R172D

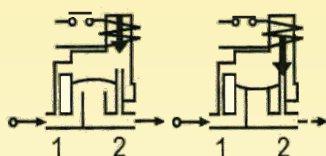


N.O.

Normally Open

Coil de-energised - Closed

Coil energised - Open



General Description:

Series R172D 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 : General application with medium such as Water, Hot Water, Steam.

Coils : Series R172D 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 220/110/24 V DC. For approval information, please refer to page no.24

Materials:

Valve Body : ASTM A351 Gr.CF8 and ASTM A 351 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 R172D 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 bar	Working Pr.(bar)		Coil Type (HT)	Coil Rating		Constr. Ref. No	* Weight (kgs)
							min	max		VA	Watt		
R172D	Inch	mm	M ³ /hr.										
10	3/8	15	3.0	CF8	Si / V	25	0.3	6	M36-SQ	14	10.5	712	0.530
15	1/2	15	3.0	CF8	Si / V	25	0.3	6	M36-SQ	14	10.5	712	0.580
20	3/4	20	8.0	CF8	Si / V	25	0.3	6	M36-SQ	14	10.5	712	0.880
25	1	25	9.5	CF8	Si / V	25	0.3	6	M36-SQ	14	10.5	712	0.935
35	1 1/2	35	30	CF8	Si / V	25	0.3	6	M36-SQ	14	10.5	712	2.5
50	2	50	37.5	CF8	Si / V	25	0.3	6	M36-SQ	14	10.5	712	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.:712

CATALOGUE NO.	Size	DIMENSION IN MM					
		A	B	C	D	D1	D2
R172D 10	3/8" (IC)	67	13	95	53	22	31
R172D 15	1/2" (IC)	67	13	95	53	22	31
R172D 20	3/4" (IC)	93	17	101	76	33	43
R172D 25	1" (IC)	102	20	104	76	33	43
R172D 35	1 1/2" (IC)	135	30	105	104	50	54
R172D 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 IIC T6 Gb	DGMS	PESO
ISI	✓		✓	✓			✓
CE	✓		✓		✓		✓
UL							
GOST							
IECEX			✓		✓		
ATEX			✓		✓		

CATALOGUE NO.	PIPE SIZE INCH	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
R172D10	3/8	712	49	73	80	30	67	62	56	58	78
R172D15	1/2	712	49	73	80	30	67	62	56	58	78
R172D20	3/4	712	49	73	80	30	67	62	56	58	78
R172D25	1	712	49	73	80	30	67	62	56	58	78
R172D35	1-1/2	712	49	73	80	30	67	62	56	58	78
R172D50	2	712	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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