

SOLENOID VALVES FOR AUTOMATION

5/2, 3/2-WAY (CONVERTIBLE) PILOT OPERATED, NAMUR MOUNTING SINGLE SOLENOID VALVE WITH M22-SQ COIL.

SERIES R485E/R385E

For Further Approvals PTO.



Namur Single Solenoid Valve with M22 coil



General Description:

Series R485E & R385E Solenoid Valves are convertible 4-Way and 3-Way, Pilot Operated Solenoid Valves, requires minimum pressure differential to operate. Valves are used on application such as Pneumatic Rotary Actuator, where High Flow rate is required. They are also suitable on Air or Gas, provided 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 Buna Nitrile seals: 80°C. Max. ambient temperature with Class 'H' coil (+)42°C.

Manual override: Valve is provided with Lockable/Resettable Manual override. Valve can be operated manually to open the valve when there is No Electric supply to the coil. Manual Override consist of slotted head screw for Screw Driver with Two possible position to Open the valve and Close the valve. Manual Override is to be positioned at Close Position when valve is operated through coil.

BEFORE ATTEMPTING ELECTRICAL OPERATION: CHECK THE MANUAL OVERRIDE IS AT CLOSE POSITION.

Mounting: Valves can be mounted directly on the Pneumatic Rotary Actuator with the Screws provided as accessory.

Application: When using as a 5-way valve, can operate double acting actuator. When using as 3-way valve, can operate single acting, spring return actuator. While exhausting, portion of air is re-introduced in spring chamber to boost operating speed of return stroke.

Coils : Series R485E & R385E Solenoid Valves are available in Class 'H' insulated (180°C) encapsulated in Thermo Plastic, containing 30% Glass filled. All coils are for continuous service for intermittent duty, 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 : M22 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. 86.

Materials:

- Valve Body : Aluminium HE 30 Hard Anodized.
- Seals/Poppets : Buna Nitrile.
- Tube Nut : Brass .
- Plunger & Stopper: AISI SS 430FR,
- Spring : AISI SS 302.
- Shading Ring : For AC: Copper. For DC: No shading ring.
- Standard Coil Type: AC – M22-SQ: 240, 110V 50Hz, Rating: 5 VA, DC – M22-SQ: Rating: 6.5 Watts.
- Sales Point : Valve type 3-way or 5-way is selectable by using the orientation of plastic Disc in No. 2 port (Refer Overleaf) Coils are supplied with DIN Connector.

NOTE

- 1) Use of fine gauge filter in the inlet side is highly recommend.
- 2) No Flameproof enclosure available.
- 3) No other electrical cable entry except PG 11, available in DIN Connector.

Installation : Valves can be mounted in any position except "Inverted", preferably in Horizontal pipeline with magnetic construction in vertical and upright position.

SPECIFICATIONS

Series	Pipe Size	Orifice Size	Flow Factor Kv	Body Material	Seat	BTP		Working Pr.(bar)		Coil Rating		Constr. Ref.	Weight Kgs
						bar	min	max	Type	VA	Watt		
R485E/R385E	Inch	mm	M ³ /hr.							~	=		
R485E06	¼	6	0.5	AL	BN	15	2	10	M22-SQ	5	6.5	745	0.470
R385E06	¼	6	0.5	AL	BN	15	2	10	M22-SQ	5	6.5	745	0.470

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				
M22-SQ/WP67	VA Holding	Watts	Watts	H	WP-IP-67	IS/IEC 60529-2001
	5	5	6.5			

CATALOGUE NO.	Size	Dimensions in mm.					
		A	B	C	D	H	ØK
R485E06	1/4	40	147	27	32	24	5.2
R385E06	1/4	40	147	27	32	24	5.2

CATALOGUE NO.	PIPE SIZE	CONSTR. REF.	E (RADIALLY)	F	G
			SQ	SQ	SQ
R485E06	1/4	745	50	22	40
R385E06	1/4	745	50	22	40

List Of Approvals							
PESO	CE	EAC	IECEX	ATEX	SIL-3	IS for Flame Proof Product	KLPL
✓	✓	✓			✓	✓	✓
						Ex db mb IIC T6 Gb	Ex tb IIC T85°C Db

M22 SQ COIL

CONSTRUCTION REF. NO.:745

Valve Fitted with M22 SQ. coil

50(RADIALLY)

H C/C

3/2

D C/C

A

5/2

W

2Nos., Ø'K' HOLES FOR MOUNTING

B

C

Details "W"

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

Office At.:
 PUNE (BR)
 NEW DELHI (BR)
 KOLKATA (BR)
 CHENNAI (BR)
 BENGALURU (BR)
 HYDERABAD (BR)
 BARODA (BR)

Contact No.:
 020-27120776
 (011)-26460811
 09831904444
 08939312809
 08431256574
 07995086416
 07043044334

AVCON CONTROLS PVT. LTD.
REGD OFFICE & WORKS:
 Plot No.65, Road No.13, MIDC Marol Area,
 Andheri (E), Mumbai-400 093.
 Tel. No. :91(22)-69156100, 28221505, (020)27120776
 E-mail :avcon@avconcontrols.com