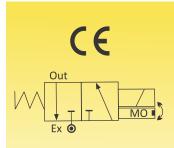


SOLENOID VALVES FOR AUTOMATION

3 - WAY MANIFOLD MOUNTED, SOLENOID VALVES, WITH M22 COILS.

SERIES R381D



On De-energization Normally Inlet Closed,

Outlet Connects to Exhaust
Port

On Coil Energization inlet is Connected to Outlet , Closing Exhaust Port.

NOTE:

For your requirement of valves with Flameproof Enclosure, please refer to catalogue no. 9381B.

General Description:

Series R381D Solenoid Valves are 3-Way Pilot Valves to be mounted on manifold to obtain, preferred number of outlets. Standard upto 8 Valves on manifold mounted are available. Large quantity can also be made by connecting accumulator in the inlet side to stop starving of the valves

End connection: Manifold are provided with inlet ¼" or 3/8" BSP/NPT Female threads. Outlets are available in ¼" BSP/NPT(F) threads.

Max. Temp. range: For media is (-)5°C & Max. with Buna Nitrile seals: 80°C. Max. ambient temperature with Class 'H' coil (+)42°C.

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

Coils: Series R381D Solenoid Valves with M22-SQ coils are available in Class 'H' insulated (180°C) coil; encapsulated in Thermo Plastic, containing 30% Glass filled. All coils are for continuous service 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 50/60 Hz AC and 220/110/24V DC. For approval information, please refer to page no. 66.

Materials:

Size : ¼" BSP or NPT.

Valve Body : Aluminium LM-24 Hard

Anodized.

Seals(Seating) : 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

50 Hz. Rating: 5 VA. DC-M22-SQ: 24V DC. Rating: 6.5 Watts.

Manual Override : Standard. Before

attempting electrical operation-Check the Manual Override is at 'Close' Position.

Application : Valves are very suitable

and useful for Piloting Diaphragm Control Valves, Bag Filter Valves, Angle Seated Valves, Any Pilot Operation.

NOTE:

- 1) Use of fine gauge filter in the inlet side is highly recommended.
- 2) Do not install bigger size of solenoid valve on smaller size pipeline.

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

Series R381D 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	ВТР	Pressure (Bar)		Coil Type	Ra		Constr. Ref.	Weight kgs
R381D	Inch	mm	M³/hr.	Material		bar			.,,,,,	VA ~	Watt =	No	
3006X2	1/4	3.0	0.12	AD	BN	10	0	6	M 22-SQ	5	6.5	733	0.256
3006X4	1/4	3.0	0.12	AD	BN	10	0	6	M 22-SQ	5	6.5	733	0.512
3006X6	1/4	3.0	0.12	AD	BN	10	0	6	M 22-SQ	5	6.5	733	0.768
3006X8	1/4	3.0	0.12	AD	BN	10	0	6	M 22-SQ	5	6.5	733	1.024



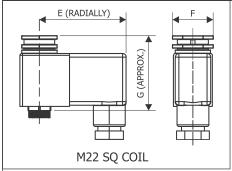
NOTE: Valves suitable for AC and DC supply are different in characteristics and construction.

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, diaphragm, medium name,
Flow (M3/hr), pressure (bar), temp. Deg.C, coil voltage AC or DC., Quantity (Nos), etc.



	POWER CO	NSUMPTION & W	ATT RATING	Class of				
COIL TYPE	A	С	DC	Class of Insulation	Protection	Certification Standard		
	VA Holding	Watts	Watts	in baration				
M22-SQ/WP67	5	5	6.5	Н	WP-IP-67	IS/IEC 60529-2001		

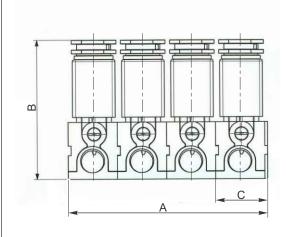


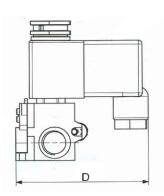
DIMENSION IN (MM)

CATALOGUE NO.	Number Of Valves	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kgs)
R381D 062	2	53	72	27	68	0.256
R381D 063	3	78	72	27	68	0.384
R381D 064	4	103	72	27	68	0.512
R381D 065	5	128	72	27	68	0.640
R381D 066	6	153	72	27	68	0.768
R381D 067	7	178	72	27	68	0.896
R381D 068	8	203	72	27	68	1.024

NOTE: Weight of each is 0.127. Multiple Weight X No of Valves.







						1								
CATALOGUE NO.	Number Of	CONSTR REF.	E (RADIALLY)	F	G	List Of Approvals								
			SQ	SQ	SQ	- AL			OII	16	2∭			
110.	Valves		M22	M22	M22	ROV		E 4X,	d mb Gb	≌		တ		
R381D 062	2	733	50	22	40	APPROVAL	IP 67	TYP 6P	EX D	Exia	Exd Tb T6 Gb	DGMS	PESO	
R381D 063	3	733	50	22	40	ISI	~		~	~			~	
R381D 064	4	733	50	22	40	C€	~		~		~		~	
R381D 065	5	733	50	22	40	UL								
R381D 066	6	733	50	22	40	C								
R381D 067	7	733	50	22	40	IECEx			~		~			
R381D 068	8	733	50	22	40	 ATEX			~		~			

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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