

2/2-Way Pilot Operated, Diaphragm Type, Solenoid Valves.

For steam and hot water application upto 9 bar pressure,

Normally Closed, Energised To Open.

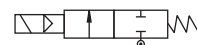
Normally Open, Energised To Close.

SPECIFICATIONS

Sizes	: 3/8" (10 mm) to 1" (25 mm).
End Connections	: Standard-G-ISO-228(BSP-F) Optional - NPT.
Body Material	: Brass forged IS-6912.
Body Test Pressure	: 40 Bar (Refer to table below)
Max.Wkg.Pressure	: 9 Bar (Refer table below).
Diaphragm Material	: Glass filled PTFE
Pilot Seat	: PTFE
Core Tube Nut	: St.St.304/St.St.316
Plunger/Stopper	: St.St.430FR.
Spring	: St.St.302
Shading Ring	: Copper.
Temp.(ambient)	: 42Deg.C
Max.Wkg.Temp.	: (-)5 to 155Deg.C.
Voltage (AC)	: 230, 110, 48, 24 V - 50/60 Hz.
(DC)	: 24, 110, 240 V.
Enclosures	: General Purpose (IP20), Weatherproof- RD-WP-67. Flameproof-RD-FLP-IIC+WP67.
Approvals	: KLPL/PESO/CE/ATEX/BIS.
Differential Pr.	: 0.5 to 9 bar,(Refer to table below).
Coil Insulation	: Class 'H' upto 155Deg.C, Class 'C' upto 180Deg.C.
Fluids	: Steam temp.upto 155Deg.C, Hot water temp.upto 95Deg.C.
Manual Override	: Not Available.
Sales Point	: Diaphragm Pilot Operated Standard valve for medium pressure steam application.
Application	: Steaming equipment, Textile processing equipment, Laundry equipment, Kitchen equipment, Sterilizers, Tanning plant, Tobacco Plants and others.
Mounting	: In horizontal pipeline, keeping solenoid upright and vertical.
Note:	: 1) Use of Filter in the inlet size is highly recommended. 2) Not suitable for back pressure from outlet side. 3) Hot water temperature limited upto 95Deg.C only. 4) Not suitable for Wet steam. 6) For high pressure steam, use valve type 9130H.

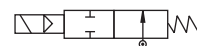


SPECIFICATION TABLE 2/2 WAY NORMALLY CLOSED



Catalogue Number	Pipe Size	Orifice Size	Flow Factor Kv	Minimum Pressure	Maximum Operating Pressure (bar)		BTP	Material		Constr. Ref.	VA Rating	Watt Rating	Coil	Housing
	Inch	mm	M ³ /hr.	bar	Hot Water*	Steam	bar	Body	Seat		AC	DC	Type	
9131E104	3/8	10	1.4	0.5	9	9	40	BR	PTFE	107	18	12	M45-HT	SQ
9131E154	1/2	10	1.4	0.5	9	9	40	BR	PTFE	107	18	12	M45-HT	SQ
9131E204	3/4	18	2.25	0.5	9	9	40	BR	PTFE	107	18	12	M45-HT	SQ
9131E254	1	18	2.25	0.5	9	9	40	BR	PTFE	107	18	12	M45-HT	SQ

2/2 WAY NORMALLY OPEN



9132E104	3/8	10	1.4	0.5	9	9	40	BR	PTFE	107	18	12	M45-HT	SQ
9132E154	1/2	10	1.4	0.5	9	9	40	BR	PTFE	107	18	12	M45-HT	SQ
9132E204	3/4	18	2.25	0.5	9	9	40	BR	PTFE	107	18	12	M45-HT	SQ
9132E254	1	18	2.25	0.5	9	9	40	BR	PTFE	107	18	12	M45-HT	SQ

*Hot water at 95°C only.

ELECTRICAL REFERENCE

Coil Type	Power Consumption & Watt Rating		Class of Insulation	Protection	Certification Standard
	AC				
	VA Inrush	VA Holding			
M 45 HT SQ	20	18	H	GP/WP IP-67	IS/IEC 60529-2001
M 45 HT RD	20	18	H	GP/WP IP-67	IS/IEC 60529-2001
M 45 HT FLP IIC	20	18	H	FLP-IIC-IP-67	IS/IEC 60079-1-2014

DIMENSIONS (IN MM)

Catalogue Number		Pipe Size	Constr. Ref.	A	B	C	D	Weight (Approx.)	Valve fitted with M45 RD GP coil - General purpose enclosure as per IP-20
Normally Closed	Normally Open	Inch						kgs.◇	
9131E104	9132E104	3/8	107	48	15	91	48.5	0.723	
9131E154	9132E154	1/2	107	48	15	91	48.5	0.673	Valve fitted with M45 RD WP coil - Waterproof metallic enclosure as per IS/IEC 60529-2001 IP-67
9131E204	9132E204	3/4	107	65	16.5	99	51	0.903	
9131E254	9132E254	1	107	68	18.5	99	51	0.953	

Catalogue Number		Pipe Size	Constr. Ref.	E (RADIALLY)			F			G (APPROX.)		
Normally Closed	Normally Open	Inch		RD GP	RD WP	FLP	RD GP	RD WP	FLP	RD GP	RD WP	FLP
9131E104	9132E104	3/8	107	60	96	96	48	62	80	78	86	156
9131E154	9132E154	1/2	107	60	96	96	48	62	80	78	86	156
9131E204	9132E204	3/4	107	60	96	96	48	62	80	86	94	164
9131E254	9132E254	1	107	60	96	96	48	62	80	86	94	164

TABLE FOR SATURATED STEAM UNDER ABSOLUTE PRESSURE.

Outlet Pres. bar (abs)	Temp. (°C)	Sp. Volume m³/Kg.	Outlet Pres. bar (abs)	Temp. (°C)	Sp. Volume m³/Kg.
0.5	80.9	3.30	8.0	169.6	0.25
1.0	99.1	1.73	8.5	172.1	0.23
1.5	110.8	1.18	9.0	174.5	0.22
2.0	119.6	0.90	9.5	176.8	0.21
2.5	126.8	0.73	10.0	179.0	0.20
3.0	132.9	0.62	11.0	183.2	0.181
3.5	138.2	0.53	12.0	187.1	0.176
4.0	142.9	0.47	13.0	190.7	0.155
4.5	147.2	0.42	14.0	194.1	0.144
5.0	151.1	0.38	15.0	197.4	0.135
5.5	154.7	0.35	16.0	200.4	0.126
6.0	158.1	0.32	17.0	203.4	0.119
6.5	161.2	0.30	18.0	206.2	0.113
7.0	164.2	0.28	19.0	208.8	0.107
7.5	167.0	0.26	20.0	211.4	0.102

APPROVAL AND CERTIFICATIONS

KLPL	: For Flame/ Explosion proof Enclosure for Group IIC & IIIC.
PESO	: For Flame/ Explosion proof Enclosure for Group IIC.
BIS LICENCE	: For ISI Mark - Flame/ Explosion proof Enclosure for Group IIC.
NAMSA	: Approval to supply products for use in Food and Beverages industries.
CE	: For Square Moulded Coils.
ATEX	: For Flame/ Explosion Proof Enclosure for Group IIC & IIIC.
IECEx	: For Flame / Explosion proof Enclosure for Group IIC & IIIC.

INSTALLATION

- 1) Use good quality pipe line strainer before solenoid valve; Use of NON RETURN VALVE after valve is recommended.
- 2) Valve can be mounted in any position, but keeping solenoid upright and vertical.
- 3) Available for 24 V DC also.

◇ Weight with SQ enclosure only, ask AVCON for other weights.

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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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