

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

For steam and hot water application upto 9 bar pressure
9130H- Normally Closed, Energised To Open.

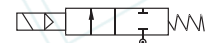
DATA SHEET
9130 H

SPECIFICATIONS

Sizes	: 3/8" (10 mm) to 2" (50 mm).
End Connections	: Standard-G-ISO-228(BSP-F), Optional:NPT.
Body Material	: SS ASTM A351 Gr.CF8/CF8M.
Body Test Pressure	: 40 Bar (Refer to table below).
Max.Wkg.Pressure	: 9 Bar (Refer to table below).
Seat Material	: Standard - PTFE, Optional: PTFE backed by EPDM.
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.	: 1.4 to 9 bar, (Refer to Table below).
Coil Insulation	: Class 'H' upto 155Deg.C, Class 'C' upto 180Deg.C.
Fluids	: Steam temp.upto 120Deg.C, Hot water temp.upto 95Deg.C.
Manual Override	: Not available.
Sales Point	: Pilot Operated standard valve for high pressure steam application.
Application	: Steaming equipment, Textile processing equipment, Laundry equipment, Kitchen equipment and others.
Mounting	: In horizontal pipeline, keeping solenoid upright and vertical.
Note	: 1) Use of Filter in the inlet side is highly recommended. 2) Not suitable for back pressure from outlet side. 3) Hot water temperature limited upto 95°Deg.C only. 4) Not suitable for Wet steam. 5) Not available in Normally Open design. 6) For application where steam pressure is below 6 bar, we recommend use of 9130D design valve with Silicon seat.



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	
9130H104	3/8	16	2.6	1.4	9	9	40	CF8	PTFE	160	36	22	M50-HT	SQ
9130H154	1/2	16	3.6	1.4	9	9	40	CF8	PTFE	160	36	22	M50-HT	SQ
9130H204	3/4	20	5.3	1.4	9	9	40	CF8	PTFE	160	36	22	M50-HT	SQ
9130H254	1	25	8.6	1.4	9	9	40	CF8	PTFE	160	36	22	M50-HT	SQ
9130H304	1 1/4	28	14.0	1.4	9	9	40	CF8	PTFE	160	36	22	M50-HT	SQ
9130H354	1 1/2	34	17.3	1.4	9	9	40	CF8	PTFE	160	36	22	M50-HT	SQ
9130H504	2	45	30.5	1.4	9	9	40	CF8	PTFE	160	36	22	M50-HT	SQ

*Hot water at 95°C only

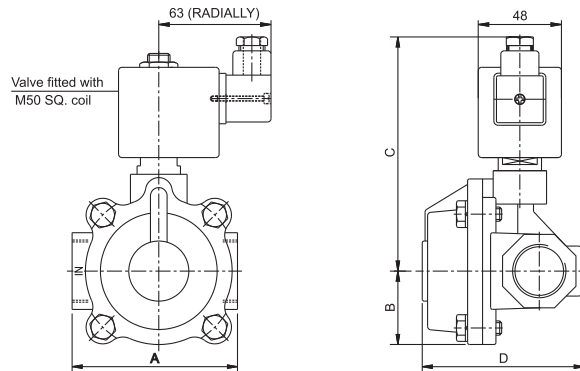
ELECTRICAL REFERENCE

Coil Type	Power Consumption & Watt Rating		Class of Insulation		Protection	Certification Standard
	AC					
	VA Inrush	VA Holding				
M 50 HT SQ	50	36	H	C	GP/WP IP-67	IS/IEC 60529-2001
M 50 HT RD	50	36	H	C	GP/WP IP-67	IS/IEC 60529-2001
M 50 HT FLP IIC	50	36	H	C	FLP-IIC-IP-67	IS/IEC 60079-1-2014

DIMENSIONS (IN MM)

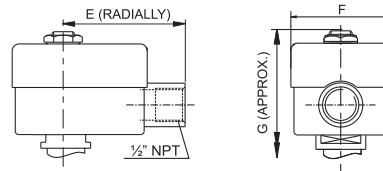
Catalogue Number	Pipe Size	Constr. Ref.	A	B	C	D	Weight (Approx.)
	Inch						Kgs. ◇
9130H104	3/8	160	65	28	129	68	1.375
9130H154	1/2	160	65	28	129	68	1.375
9130H204	3/4	160	80	32	134	79	1.805
9130H254	1	160	95	41	139	93	2.295
9130H304	1 1/4	160	100	43	144	106	2.575
9130H354	1 1/2	160	118	43	144	117	3.080
9130H504	2	160	137	58	151	135	4.495

CONSTRUCTION REF. NO.:160

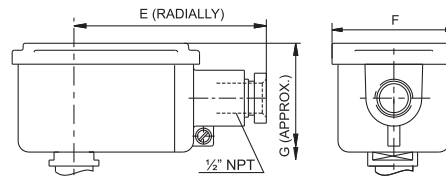


◇ Weight with SQ enclosure only, ask AVCON for other weights.

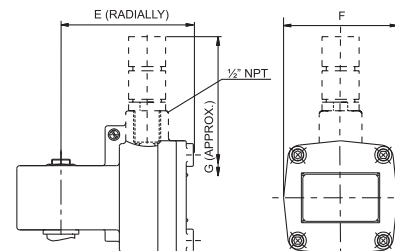
Valve fitted with M50 RD GP coil - General purpose enclosure as per IP-20



Valve fitted with M50 RD WP coil - Waterproof metallic enclosure as per IS/IEC 60529-2001 IP-67



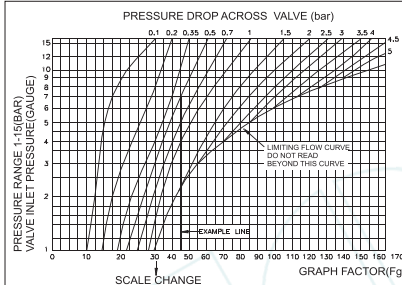
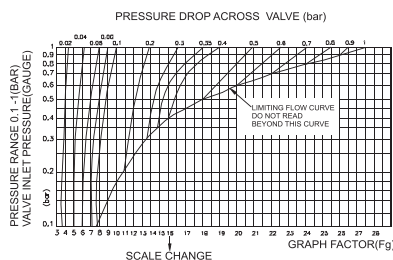
Valve fitted with M50 FLP IIC coil - Flameproof metallic enclosure as per IS/IEC 60079-1-2014 IP-67.



Catalogue Number	Pipe Size	Constr. Ref.	E (RADIALLY)			F			G (APPROX.)		
			RD GP	RD WP	FLP	RD GP	RD WP	FLP	RD GP	RD WP	FLP
9130H104	3/8	160	66	96	96	57	68	80	120	125	190
9130H154	1/2	160	66	96	96	57	68	80	120	125	190
9130H204	3/4	160	66	96	96	57	68	80	125	130	195
9130H254	1	160	66	96	96	57	68	80	130	135	200
9130H304	1 1/4	160	66	96	96	57	68	80	135	140	205
9130H354	1 1/2	160	66	96	96	57	68	80	135	140	205
9130H504	2	160	66	96	96	57	68	80	142	147	212

TEMPERATURE TABLE FOR SATURATED STEAM UNDER GAUGE PRESSURE

Pressure (bar)	Temp (°C)	Pressure (bar)	Temp (°C)
0.5	111	6	165
1	120	7	170
1.5	127	8	175
2	134	9	180
2.5	139	10	184
3	144	11	188
3.5	148	12	191
4	152	13	195
4.5	155	14	198
5	159	15	200



FLOW CALCULATION GRAPHS FOR SATURATED STEAM: The valve flow coefficient $K_v=1$, If one cubic meter (m^3) water (at $30^\circ C$) is passing through the valve per hour with a pressure drop (Δp) of 1 bar. To select the right valve with certain K_v value, read the steam flow graphs as follows.

EXAMPLE: A valve is required to pass 400 Kg/h (Q_m) of saturated steam at inlet pressure of 7 bar (g) (Δp) of 0.5 bar: What is the K_v ?

SOLUTION: Read the steam graph to find the graph factor (F_g) and use the formula : $K_v = \frac{Q_m}{F_g} = \frac{400}{45} = 8.5$

NOTE : Absolute pressure = gauge pressure plus atmospheric pressure of 1.033 bar. In most system it is desirable to keep the pressure drop to a minimum. Never use a (Δp) greater than 50% of the absolute inlet pressure because excessive pressure drop cause irregular flow.

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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WESTERN Mumbai Plot No. 65, Road No. 13, MIDC Marol, Andheri (East), Mumbai - 400 093 Tel.No.: 022-6915 6100 / 83909 17431 E-mail : acplmumbai.sales@avconcontrols.com	Pune Plot No. T - 108, MIDC Bhosari, Pune - 411 026. Maharashtra (INDIA). Tel.No.: 020-2712 0776 / 2712 0540 E-mail : acplmumbai.sales@avconcontrols.com	Baroda 307, Mangaldeep Complex, Sampatras Colony, Productivity Road, Baroda - 390 005. Tel.No.: 022-4915 6100 / 83909 17431 E-mail : acplmumbai.sales@avconcontrols.com
SOUTHERN Chennai 249, First Floor, Tiny Sector Ambattur Industrial Estate, Chennai - 600 059 Tel.No.: 044-4807 4107 / 089393 12809 E-mail : acplmumbai.sales@avconcontrols.com	Hyderabad SSR ENCLAVE, Plot No. 81, Road No.4, Vasanthi Nagar, Nizampet X Roads (Near JNTU College Metro Station), Hyderabad - 500085. Tel.No.: 7995086416 E-mail : acplmumbai.sales@avconcontrols.com	Bangalore Tel.No.: 084312 56574 E-mail : acplmumbai.sales@avconcontrols.com

EASTERN Kolkata 720, 7th Floor, 33/1, N.S. Road, Marshal House, Kolkata-700 001. Tel.No.: 033-4068 1180 / 77109 00889 E-mail : acplmumbai.sales@avconcontrols.com
NORTHERN New Delhi Unit No. 708, 7th Floor, 94 Meghdoot, Nehru Place, New Delhi - 110019 Tel.No.: 011-42639736 / 88282 69844 E-mail : acplmumbai.sales@avconcontrols.com

avcon®
Manufactured by:

AVCON CONTROLS PVT. LTD.
 Plot No. 65, Road No.13, MIDC Marol, Andheri (East), Mumbai - 400 093 (INDIA).
 Phone : +91-22-6915 6100.
 E-mail : avcon@avconcontrols.com
 acplmumbai.sales@avconcontrols.com
 Website : www.avconcontrols.com