



# 2/2-Way Pilot Operated, Piston Type, Solenoid Valves. For steam and hot water application upto 9 bar pressure

**DATA SHEET** 9130 H

Normally Closed, Energised To Open.

## **SPECIFICATIONS**

: 10mm (3/8") to 50mm (2"). Sizes : Standard-G-ISO-228 (BSP-F) **End Connections** Construction-Body

: Upto 20mm (3/4") Brass forged IS 6912 and above in SS ASTM

A351 Gr. CF8. or CF8M.

-Seat : Standard-PTFE

Optional-PTFE backed by EPDM.

Differential Pressure Coil Voltage

: 1.4 to 9 bar (See table). : Standard-230-volts,

50Hz. A C.

Optional - 24,110, 240 V AC 50Hz or 60Hz & 24 V DC.

Coil Insulation and

Application

: Ambient upto 42°C. Temperature.

Class 'H' insulated upto 155°C. Class 'C' insulated upto 180°C.

Coil Rating : Continuously rated. Enclosure

: Standard-General purpose SQ. moulded coil upto IP-20,

Optional-Weatherproof SQ. moulded coil upto IP-67, Flameproof coil upto FLP IIC.

: CIMFR Dhanbad, CCOE. Approvals Fluids : Steam temp. upto 180°C.

Hot water temp. upto 95°C

Sales Point : Pilot operated, standard valve for high pressure steam application.

: Steaming equipment, textile, processing equipment, laundry equipment, kitchen equipment

and others.



Note

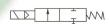
: Not suitable for back pressure working from outlet side. Hot water temperature limited upto 95 °C only.

Not suitable for wet steam. Not available in Normally Open

Manual override not available For application where the steam pressure is below 6 bar, we recommend use of 9130D design valves with Silicon seat,

(Refer to data sheet 9130D). USE OF FILTER IN THE INLET SIDE IS HIGHLY RECOMMENDED.

## **SPECIFICATION TABLE** 2/2 WAY NORMALLY CLOSED



Catalogue Number	Pipe Size	Orifice Size	Flow Factor Kv	Minimum Pressure	Maximum Operating Pressure (bar)		ВТР	Mat	erial	Constr. Ref.	VA Rating	Coil	Housing
rambor	Inch	mm	M³/hr.	bar	Hot Water*	Steam	bar	Body	Seat		AC	Type	
9130H104	3/8	16	2.6	1.4	9	9	40	BR	PTFE	160	36	M50-HT	SQ
9130H154	1/2	16	3.6	1.4	9	9	40	BR	PTFE	160	36	M50-HT	SQ
9130H204	3/4	20	5.3	1.4	9	9	40	BR	PTFE	160	36	M50-HT	SQ
9130H254	1	25	8.6	1.4	9	9	40	CF8	PTFE	160	36	M50-HT	SQ
9130H304	1 1/4	28	14.0	1.4	9	9	40	CF8	PTFE	160	36	M50-HT	SQ
9130H354	1 1/2	34	17.3	1.4	9	9	40	CF8	PTFE	160	36	M50-HT	SQ
9130H504	2	45	30.5	1.4	9	9	40	CF8	PTFE	160	36	M50-HT	SQ

<sup>\*</sup>Hot water at 95°C only

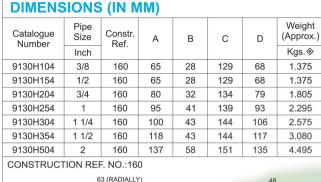
## **ELECTRICAL REFERENCE**

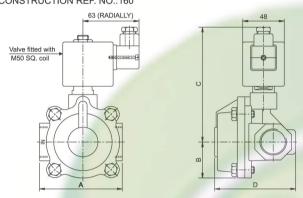
	· ·	ion & Watt Rating	Class of				
Coil Type	A	C			Protection		
	VA Inrush VA Holding			ation			
M 50 HT SQ	50	36	Н	С	GP/WP IP-67		
M 50 HT RD	50	36	Н	С	GP/WP IP-67		
M 50 HT FLP IIC	50	50 36		С	IS/IEC 60079-1:2007, Group IIC. IS 12063-1987 IP-67 (IEC 60529:1989).		

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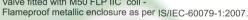


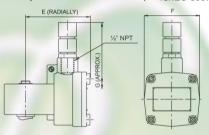




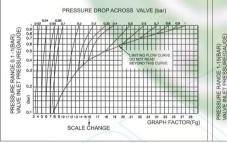
Weight with SQ enclosure only, ask AVCON for other weights.

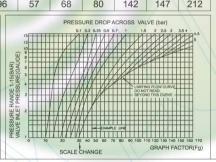
# Valve fitted with M50 RD GP coil General purpose enclosure as per IP-20 E(RADIALLY) Valve fitted with M50 RD WP coil Waterproof metallic enclosure as per IS 12063-1987 IP-67 E(RADIALLY) Valve fitted with M50 FLP IIC coil -





Catalogue Number	Pipe Size	Constr. Ref.	E (RADIALLY)			F			G (APPROX.)		
Tramber	Inch		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





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Pressure	Temp	Pressure	Temp

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 Kv=1, If one cubic meter  $(m^3)$  water (at  $30^{\circ}$ C) is passing through the valve per hour with a pressure drop ( $\Delta p$ ) of 1 bar. To select the right valve with certain Kv value, read the steam flow graphs as follows.

EXAMPLE: A valve is required to pass 400 Kg/h (Qm) of saturated steam at inlet pressure of 7 bar (g) ( $\Delta$ p) of 0.5 bar: What is the Kv?

SOLUTION: Read the steam graph to find the graph factor(Fg) and use the formula :  $Kv = \frac{Qm}{Fg} = \frac{400}{45} = 8.5$ 

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 ( $\Delta p$ ) 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.



## Authorised Distributor :

## Priyal Corporation

"PRIYAL HOUSE", 14, Kameshwar Estate, Plot No. 3609, Phase-4, Nikatube Cross Road, GIDC, Vatva, Ahmedabad - 382 445. Phone: 079-25841150 / 51 Fax: 079-25841150 Mobile: 98240 15888

E-mail: edirect@priyalcorporation.com Website: www.priyalcorporation.com