

# 2/2-Way Semi Pilot, Diaphragm Type, Solenoid Valves.

DATA SHEET  
9230 D

Normally Closed, Energised To Open.

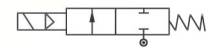
## SPECIFICATIONS

Sizes	: 10mm (3/8") to 50mm (2").
End Connections	: Standard-G-ISO-228 (BSP-F), Optional - NPT.
Construction-Body	: Upto 20mm (3/4") Brass forged IS 6912, above in SS ASTM A351 Gr.CF8 or CF8M.
Diaphragm-Seat	: Standard-Nitrile (Buna 'N'), Optional-Neoprene, Viton, EPDM.
Differential Pressure	: 0 to 6 bar,
Temperature of Fluid	: -5°C to 80°C.
Coil Voltage	: Standard-230-volts, 50Hz. A C. Optional - 24, 110, 240 V DC & AC 50Hz or 60Hz..
Coil Insulation and Temperature.	: Ambient upto 42°C. Class 'H' insulated upto 155°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.
Fluids	: Air, water, gas, vacuum, light oil, mild corrosive fluid, etc.
Optional features	: Manual override(BOTTOM),
Sales Point	: High volume flow, low pressure application-Only normally closed design available.



Application	: Gas burning equipments, autoclaves, oil centrifuge plants, vacuum plants. Pump seal water application, low pressure water circulation system, solar heating system, gas generator and others.
Note	: 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)						BTP	Material		Constr. Ref.	VA Rating	Watt Rating	Coil	Housing	
					AC			DC				bar	Body						Seat
					Air/Gas	Water	Light Oil	Air/Gas	Water	Light Oil									
9230D104	3/8	16	2.6	0	6	4	3	6	5	3	40	BR	BN	166	36	22	M50	SQ	
9230D154	1/2	16	3.4	0	6	4	3	6	5	3	40	BR	BN	166	36	22	M50	SQ	
9230D204	3/4	19	4.3	0	6	3.5	3	6	4	3	40	BR	BN	166	36	22	M50	SQ	
9230D254	1	25	8.6	0	6	3.5	2	6	4	2.5	40	CF8	BN	166	36	22	M50	SQ	
9230D304	1 1/4	28	14.6	0	5	3.5	2	5	4	2	40	CF8	BN	166	36	22	M50	SQ	
9230D354	1 1/2	34	17.3	0	5	3	2	5	4	2	40	CF8	BN	167	36	22	M50	SQ	
9230D504	2	45	30.5	0	4	3	2	4	3	2	40	CF8	BN	167	36	22	M50	SQ	

**ELECTRICAL REFERENCE**

Coil Type	Power Consumption & Watt Rating			Class of Insulation	Protection
	AC		DC		
	VA Inrush	VA Holding	Watts		
M 50 SQ	50	36	22	H	GP/WP IP-67
M 50 RD	50	36	22	H	GP/WP IP-67
M 50 FLP IIB / FLP IIC	50	36	22	H	IS/IEC 60079-1:2007, Group IIC. IS/IEC 60529-2001 IP-67

**DIMENSIONS IN (MM)**

Catalogue Number	Pipe Size	Constr. Ref.	A	B	C	D	Weight (Approx.)	Valve fitted with M50 RD GP coil - General purpose enclosure as per IP-20 				
	Inch						Kgs. ♦					
9230D104	3/8	166	65	14.5	119	72	1.12	Valve fitted with M50 RD WP coil - Waterproof metallic enclosure as per IS/IEC 60529-2001 IP-67 				
9230D154	1/2	166	65	14.5	119	72	1.12					
9230D204	3/4	166	80	26	124	80	1.495					
9230D254	1	166	95	27	129	96	1.65					
9230D304	1 1/4	166	100	30	138	101	2.275					
9230D354	1 1/2	167	118	34	144	102	2.38					
9230D504	2	167	137	42	154	133	3.715					
CONSTRUCTION REF. NO.: 166 								Valve fitted with M50 FLP IIB / FLP IIC coil - Flameproof metallic enclosure as per IS/IEC 60079-1:2007. 				
CONSTRUCTION REF. NO.: 167 												
Catalogue Number	Pipe Size	Constr. Ref.	E (RADIALLY)			F			G (APPROX.)			
	Inch		RD GP	RD WP	FLP	RD GP	RD WP		FLP	RD GP	RD WP	FLP
9230D104	3/8	166	66	96	96	57	68		80	110	115	180
9230D154	1/2	166	66	96	96	57	68		80	110	115	180
9230D204	3/4	166	66	96	96	57	68		80	115	120	185
9230D254	1	166	66	96	96	57	68	80	120	125	190	
9230D304	1 1/4	166	66	96	96	57	68	80	129	134	199	
9230D354	1 1/2	167	66	96	96	57	68	80	135	140	205	
9230D504	2	167	66	96	96	57	68	80	145	150	215	

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

**Note:**

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