

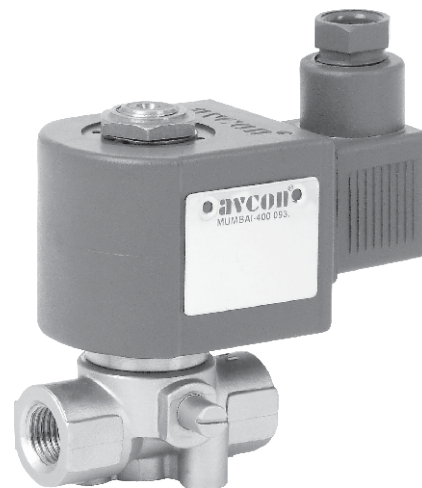
2/2-Way Midget Type, Direct Acting Solenoid Valves.

9210B-Normally Closed, Energised To Open,
9220B-Normally Open, Energised To Close.

DATA SHEET
9210 B
9220 B

SPECIFICATIONS

Sizes	: 1/4" (6 mm) to 1/2" (15 mm).
End Connections	: Standard-G-ISO-228(BSP-F) Optional-NPT.
Body Material	: Brass forged IS 6912 or ASTM A351.CF8/ CF8M.
Body Test Pressure	: 40 Bar(Refer to table below).
Max.Wkg.Pressure	: 10 Bar (Refer to table below).
Seat Material	: Std. : Buna Nitrile, Optional - Viton, Neoprene, PTFE and others.
Core Tube Nut	: St.St.304/St.St.316.
Plunger/Stopper	: St.St.430FR.
Spring	: St.St.302.
Shading Ring	: Copper. Optional: Silver for corrosive media.
Temp.(ambient)	: 42Deg.C
Max.Wkg.Temp.	: (-)5 to 80Deg.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 to 40 bar (Refer to table below).
Coil Insulation	: Class 'H' upto 155Deg.C.
Fluids	: Air,Water,Gas Light & Heavy oil, mild corrosive fluid, etc.
Manual Override	: Available only for 9210B-Normally Closed Valve. Not available for 9220B-Normally Open Valve.
Sales Point	: Most versatile and reliable valve for millions of trouble free operations.
Application	: Furnaces, Boilers, Textile machinery, Water Treatment plant, Ash handling, Sugar machinery 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.



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							AC	DC	Type	
	Inch	mm	M ³ /hr.	bar	Air/Gas	Water	Light Oil	Air/Gas	Water	Light Oil	bar	Body	Seat		AC	DC	Type	
9210B15	1/4	1.5	0.07	0	30	18	11	40	28	24	40	BR	BN	2.1	18	12	M45.1	SQ
9210B20	1/4	2.0	0.09	0	22	16	9	30	20	16	40	BR	BN	2.1	18	12	M45.1	SQ
9210B25	1/4	2.5	0.11	0	17	9	4.5	20	15	12	40	BR	BN	2.1	18	12	M45.1	SQ
9210B30	1/4	3.0	0.13	0	12	6	3	12	10	7	40	BR	BN	2.1	18	12	M45.1	SQ
9210B31	1/4	3.0	0.15	0	15	12	9	25	22	20	40	BR	BN	157	36	22	M50	SQ
9210B40	1/4	4.0	0.40	0	5	3.5	1.5	5	4.5	3.5	40	BR	BN	2.1	18	12	M45.1	SQ
9210B41	1/4	4.0	0.43	0	10	8	8	20	18	18	40	BR	BN	157	36	22	M50	SQ
9210B45	1/4	4.5	0.60	0	3.5	2.5	1	4.5	4	3	40	BR	BN	2.1	18	12	M45.1	SQ
9210B46	1/4	4.5	0.62	0	8	6	4	18	16	16	40	BR	BN	157	36	22	M50	SQ
9210B60	1/4	6.0	0.78	0	2.5	2	0.6	3.5	3	2	40	BR	BN	2.1	18	12	M45.1	SQ
9210B61	1/4	6.0	0.80	0	5	4.5	3.5	11	11	11	40	BR	BN	157	36	22	M50	SQ

2/2 WAY NORMALLY OPEN

9220B15	1/4	1.5	0.07	0	22	21	17	25	22	18	20	BR	BN	2.1	18	12	M45.1	SQ				
9220B25	1/4	2.5	0.11	0	10	9	8	12	10	8	20	BR	BN	2.1	18	12	M45.1	SQ				
9220B30	1/4	3.0	0.13	0	7	5	3.5	8	6	4	20	BR	BN	2.1	18	12	M45.1	SQ				

2/2 WAY NORMALLY CLOSED

9210B2510	3/8	2.5	0.11	0	17	9	4.5	20	15	12	40	CF8	BN	172	18	12	M45.1	SQ				
9210B3010	3/8	3.0	0.13	0	12	6	3	12	10	7	40	CF8	BN	172	18	12	M45.1	SQ				
9210B3110	3/8	3.0	0.15	0	15	12	9	25	22	20	40	CF8	BN	164	36	22	M50	SQ				
9210B4010	3/8	4.0	0.40	0	5	3.5	1.5	5	4.5	3.5	40	CF8	BN	172	18	12	M45.1	SQ				
9210B4110	3/8	4.0	0.43	0	10	8	8	20	18	18	40	CF8	BN	164	36	22	M50	SQ				
9210B4510	3/8	4.5	0.60	0	3.5	2.5	1	4.5	4	3	40	CF8	BN	172	18	12	M45.1	SQ				
9210B4610	3/8	4.5	0.62	0	8	6	4	18	16	16	40	CF8	BN	164	36	22	M50	SQ				
9210B6010	3/8	6.0	0.78	0	2.5	2	0.6	3.5	3	2	40	CF8	BN	172	18	12	M45.1	SQ				
9210B6110	3/8	6.0	0.80	0	5	4.5	3.5	11	11	11	40	CF8	BN	164	36	22	M50	SQ				
9210B8110	3/8	8.0	1.10	0	2	1.8	1	3	2.7	2.5	40	CF8	BN	164	36	22	M50	SQ				

2/2 WAY NORMALLY OPEN

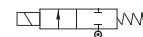
9220B2610	3/8	2.5	0.11	0	10	9	7	12	10	8	20	CF8	BN	164	36	22	M50	SQ				
9220B3110	3/8	3.0	0.13	0	7	5	3.5	8	6	4	20	CF8	BN	164	36	22	M50	SQ				

NOTE - For Higher port sizes in normally open design AVCON shall use different construction.

ELECTRICAL REFERENCE

Coil Type	Power Consumption & Watt Rating			Class of Insulation	Protection	Certification Standard
	AC		DC			
	VA Inrush	VA Holding	Watts			
M 45.1 SQ	25	18	12	H	GP/WP IP-67	IS/IEC 60529-2001
M 50 SQ	50	36	22	H	GP/WP IP-67	IS/IEC 60529-2001
M 45.1 RD	25	18	12	H	GP/WP IP-67	IS/IEC 60529-2001
M 50 RD	50	36	22	H	GP/WP IP-67	IS/IEC 60529-2001
M 45.1 FLP IIC	25	18	12	H	FLP-IIC-IP-67	IS/IEC 60079-1-2014
M 50 FLP IIC	50	36	22	H		

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	Watt	Coil	Housing
					AC			DC							Rating	Rating		
					Inch	mm	M ³ /hr.	bar	Air/Gas	Water					Light Oil	Air/Gas		
9210B4115	1/2	4.0	0.43	0	10	8	8	20	18	18	40	CF8	BN	164	36	22	M50	SQ
9210B6115	1/2	6.0	0.80	0	5	4.5	3.5	11	11	11	40	CF8	BN	164	36	22	M50	SQ
9210B8115	1/2	8.0	1.30	0	2	1.8	1	3	2.7	2.5	40	CF8	BN	164	36	22	M50	SQ
9210B9115	1/2	9.0	1.50	0	1.8	1	0.5	2.5	2	1	40	CF8	BN	164	36	22	M50	SQ
9210B1115	1/2	11.0	2.00	0	1	0.6	0.3	1	1	0.5	40	CF8	BN	164	36	22	M50	SQ

2/2 WAY NORMALLY OPEN



9220B3115	1/2	3.0	0.13	0	7	5	3.5	8	6	4	20	CF8	BN	164	36	12	M50	SQ		
-----------	-----	-----	------	---	---	---	-----	---	---	---	----	-----	----	-----	----	----	-----	----	--	--

DIMENSIONS (IN MM)

CONSTRUCTION REF. NO. :2.1

BRASS BODY

CONSTRUCTION REF. NO. :157

BRASS BODY

CONSTRUCTION REF. NO. :2.2

SS BODY

CONSTRUCTION REF. NO. :165

SS BODY

CONSTRUCTION REF. NO. :172

SS BODY Without MO

☐ Valve fitted with M45 SQ. coil.

CONSTRUCTION REF. NO. :164

SS BODY Without MO

☐ Valve fitted with M50 SQ. coil.

Valve fitted with M45 / M50 RD GP coil -
General purpose enclosure as per IP-20

Valve fitted with M45 / M50 RD coil -
Waterproof metallic enclosure as per
IS/IEC 60529-2001 IP-67

Valve fitted with M45 / M50
FLP IIC coil Flameproof metallic
enclosure as per IS/IEC 60079-1-2014 IP-67

Catalogue Number	Pipe Size Inch	Constr. Ref.	A	B	C	Weight (Approx.) Kgs. ⚡	E (RADIALLY)			F			G (APPROX.)		
							RD GP	RD WP	FLP	RD GP	RD WP	FLP	RD GP	RD WP	FLP
9210B15-30/40/45/60	1/4	2.1	39.5	10.5	85	0.518	60	96	96	48	62	80	72	80	150
9210B31/4/14/6/61	1/4	157	39.5	10.5	95	0.615	66	96	96	57	68	80	86	91	156
9220B15-30	1/4	2.1	39.5	10.5	85	0.518	60	96	96	48	62	80	72	80	150
9210B15-30/40/45/60	1/4	2.2	51	12.6	78	0.503	60	96	96	48	62	80	65	73	143
9210B31/4/14/6/61	1/4	165	51	12.6	108	0.605	66	96	96	57	68	80	79	104	163
9220B15-30	1/4	2.2	51	12.6	78	0.503	60	96	96	48	62	80	65	73	143
9210B2510-6010	3/8	172	68	16	93	0.583	60	96	96	48	62	80	80	88	158
9210B3110-8110	3/8	164	54	16	103	0.680	66	96	96	57	68	80	94	99	164
9220B 2610-3110	3/8	172	68	16	103	0.744	66	96	96	57	62	80	94	99	164
9210B4115-1115	1/2	164	54	16	103	0.690	66	96	96	57	68	80	94	99	164
9220B3115	1/2	172	54	16	93	0.593	60	96	96	48	62	80	80	88	158

⚡ 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.

Ed.9210B-9220B-Dec-2025

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, Sampatray Colony, Productivity Road, Baroda - 390 005. Tel.No.: 022-6915 6100 / 83909 17431 E-mail : acplmumbai.sales@avconcontrols.com
SOUTHERN		
Chennai 249, First Floor, Tiny Sector Ambattur Industrial Estate, Chennai - 600 058 Tel.No.: 044-4807 4107 / 08393 12809 E-mail : acplmumbai.sales@avconcontrols.com	Hyderabad SSR ENCLAVE, Plot No. 81, Road No.4, Vasantha 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	