

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

DATA SHEET
9123 M
9124 M

9123M - Normally Closed, Energised To Open,
9124M - Normally Open Energised To Closed,
Anti Hammer Design.

SPECIFICATIONS

Sizes	: 1/2" (15 mm) to 2" (20 mm).
End Connections	: Standard-G-ISO-228(BSP-F), Optional-NPT.
Body Material -Body	: SS ASTM A351 Gr.CF8 or CF8M.
Piston	: SS ASTM A351 Gr.CF8M.
Body Test Pressure	: 120 Bar (Refer to table below).
Max.Wkg.Pressure	: 45 Bar (Refer to table below).
Seat Material	: Standard - PTFE. Optional: Viton.
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 120Deg.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.	: 4 to 110 (Refer to table below).
Coil Insulation	: Class 'H' upto 155Deg.C.
Fluids	: Air, Water, Gas, Light Oil,Hydraulic oil etc.
Manual Override	: Not Available.
Sales Point	: Highly reliable, compact, maintenance free valve, suitable for thousands of operations.
Application	: Water treatment system, Combustion equipment, etc. Not suitable for steam duty.
Mounting	: In horizontal pipeline, keeping solenoid upright and vertical.
Note	: 1) Use of Filter in the inlet side is highly recommended. 2) All valves working on AC Supply voltage are supplied with Internal Rectifier with DC Coil. For DC voltage - No change. 3) 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)							Material		Constr. Ref.	VA Rating	Watt Rating	Coil	Housing
					AC			DC			BTP							
					Air/Gas	Water	Light Oil	Air/Gas	Water	Light Oil	bar	Body	Seat		AC	DC	Type	
9123M154	1/2	16	3.6	4	45	75	60	45	110	60	120	CF8	PTFE	155	36	22	M50	SQ
9123M204	3/4	20	5.3	4	45	75	60	45	110	60	120	CF8	PTFE	155	36	22	M50	SQ
9123M254	1	25	8.6	4	45	75	60	45	110	60	120	CF8	PTFE	155	36	22	M50	SQ
9123M354	1 1/2	34	17.3	4	45	75	60	45	110	60	120	CF8	PTFE	156	36	22	M50	SQ
9123M504	2	45	30.5	4	45	75	60	45	110	60	120	CF8	PTFE	156	36	22	M50	SQ

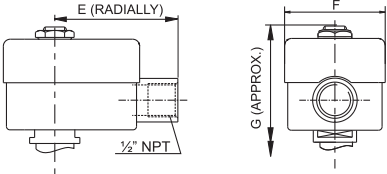
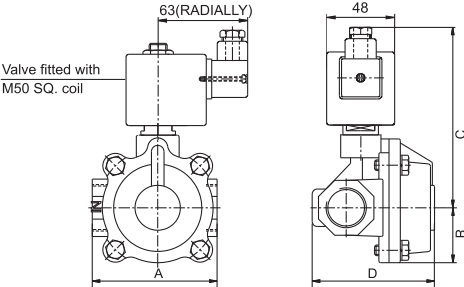
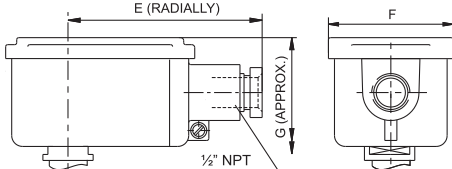
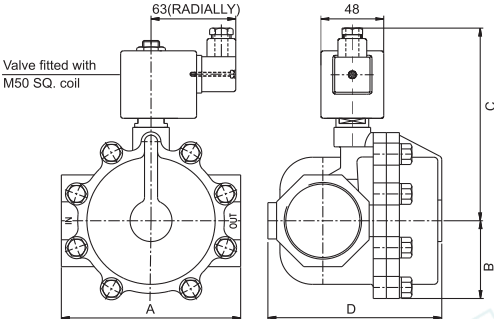
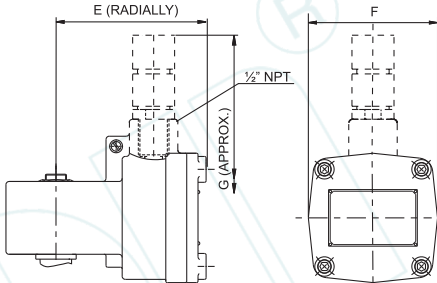
2/2 WAY NORMALLY OPEN

Catalogue Number	Pipe Size	Orifice Size	Flow Factor Kv	Minimum Pressure	Maximum Operating Pressure (bar)							Material		Constr. Ref.	VA Rating	Watt Rating	Coil	Housing
					AC			DC			BTP							
					Air/Gas	Water	Light Oil	Air/Gas	Water	Light Oil	bar	Body	Seat		AC	DC	Type	
9124M154	1/2	16	3.6	4	40	40	40	40	40	40	120	CF8	PTFE	155	36	22	M50	SQ
9124M204	3/4	20	5.3	4	40	40	40	40	40	40	120	CF8	PTFE	155	36	22	M50	SQ
9124M254	1	25	8.6	4	40	40	40	40	40	40	120	CF8	PTFE	155	36	22	M50	SQ
9124M354	1 1/2	34	17.3	4	40	40	40	40	40	40	120	CF8	PTFE	156	36	22	M50	SQ
9124M504	2	45	30.5	4	40	40	40	40	40	40	120	CF8	PTFE	156	36	22	M50	SQ

ELECTRICAL REFERENCE

Coil Type	Power Consumption & Watt Rating			Class of Insulation	Protection	Certification Standard
	AC		DC			
	VA Inrush	VA Holding	Watts			
M 50 SQ	50	36	22	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 50 FLP IIC	50	36	22	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 M50 RD GP coil - General purpose enclosure as per IP-20 
		Inch						Kgs. ♦	
9123M154	9124M154	1/2	155	65	38	122	75	1.825	
9123M204	9124M204	3/4	155	80	45	126	94	2.575	
9123M254	9124M254	1	155	95	53	134	102	3.435	
9123M354	9124M354	1 1/2	156	118	56	138	120	4.171	
9123M504	9124M504	2	156	137	73	158	136	5.425	
CONSTRUCTION REF. NO. : 155									
Valve fitted with M50 SQ. coil 									Valve fitted with M50 RD WP coil - Waterproof metallic enclosure as per IS/IEC 60529-2001 IP-67 
CONSTRUCTION REF. NO.: 156									
Valve fitted with M50 SQ. coil 									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.)		
		Inch		RD GP	RD WP	FLP	RD GP	RD WP	FLP	RD GP	RD WP	FLP
9123M154	9124M154	1/2	155	66	96	96	57	68	80	113	118	183
9123M204	9124M204	3/4	155	66	96	96	57	68	80	117	122	187
9123M254	9124M254	1	155	66	96	96	57	68	80	125	130	195
9123M354	9124M354	1 1/2	156	66	96	96	57	68	80	129	134	199
9123M504	9124M504	2	156	66	96	96	57	68	80	149	154	219

♦ 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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