

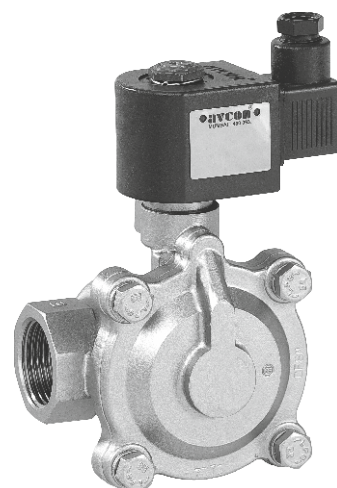
2/2-Way Pilot Operated, Diaphragm Type, Solenoid Valves.

DATA SHEET
9100F
9120F

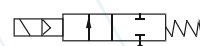
9100F- Normally Closed, Energised To Open,
9120F- Normally Open, Energised To Close.

SPECIFICATIONS

Sizes	: 3/8" (10 mm) to 3" (75 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	: 12 Bar (Refer to table below).
Seat Material	: Std. : Buna Nitrile, Optional - Viton, Neoprene 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 120 Deg.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.	: 0.6 to 10 bar. (Refer to table below).
Coil Insulation	: Class 'H' upto 155Deg.C.
Fluids	: Air,Water,Gas, Light Oil, Heavy oil, mild corrosive fluid, etc.
Manual Override	: Only for 9100F-Normally Closed Valve. Not available for 9120F-Normally Open Valve.
Optional	: Mounting Bracket.
Sales Point	: Most reliable, maintenance free, on-off valve in our range.
Application	: Chemical, Textile, Cement Machinery, Combustion equipments, Air dryer, Cleaning equipment and others. Not suitable for Steam.
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.

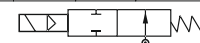


SPECIFICATION TABLE 2/2 WAY NORMALLY CLOSED



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
	Inch	mm	M³/hr.		bar	AC			DC						AC	DC	Type	
				Air/Gas		Water	Light Oil	Air/Gas	Water	Light Oil								
9100F104	3/8	16	2.6	0.5	12	12	10	12	12	10	40	CF8	BN	83.1	18	12	M45.1	SQ
9100F154	1/2	16	3.4	0.5	12	12	10	12	12	10	40	CF8	BN	83.1	18	12	M45.1	SQ
9100F204	3/4	20	5.2	0.5	12	12	10	12	12	10	40	CF8	BN	83.1	18	12	M45.1	SQ
9100F254	1	25	8.6	0.5	12	12	10	12	12	10	40	CF8	BN	83.1	18	12	M45.1	SQ
9100F304	1 1/4	28	14.0	0.5	12	12	10	12	12	10	40	CF8	BN	83.1	18	12	M45.1	SQ
9100F354	1 1/2	34	17.3	0.5	12	12	10	12	12	10	40	CF8	BN	83.1	18	12	M45.1	SQ
9100F504	2	45	30.5	0.5	12	12	10	12	12	10	40	CF8	BN	153	18	12	M45.1	SQ
9100F654	2 1/2	60	45	0.7	10	10	8	10	10	8	40	CF8	BN	153	36	22	M50	SQ
9100F754	3	72	66	0.7	10	10	8	10	10	8	40	CF8	BN	153	36	22	M50	SQ

2/2 WAY NORMALLY OPEN



9120F104	3/8	16	2.6	0.5	10	8	7	10	8	7	40	CF8	BN	83.1	18	12	M45.1	SQ	SQ	SQ
9120F154	1/2	16	3.4	0.5	10	8	7	10	8	7	40	CF8	BN	83.1	18	12	M45.1	SQ	SQ	SQ
9120F204	3/4	20	5.2	0.5	10	8	7	10	8	7	40	CF8	BN	83.1	18	12	M45.1	SQ	SQ	SQ
9120F254	1	25	8.6	0.5	10	8	7	10	8	7	40	CF8	BN	83.1	18	12	M45.1	SQ	SQ	SQ
9120F304	1 1/4	28	14	0.5	10	8	7	10	8	7	40	CF8	BN	83.1	18	12	M45.1	SQ	SQ	SQ
9120F354	1 1/2	34	17.3	0.7	10	8	7	10	8	7	40	CF8	BN	83.1	18	12	M45.1	SQ	SQ	SQ
9120F504	2	45	30.5	0.7	10	8	7	10	8	7	40	CF8	BN	153	18	12	M45.1	SQ	SQ	SQ
9120F654	2 1/2	60	45	0.7	7	7	7	7	7	4	40	CF8	BN	153	36	22	M50	SQ	SQ	SQ
9120F754	3	72	66	0.7	7	7	7	7	7	4	40	CF8	BN	153	36	22	M50	SQ	SQ	SQ

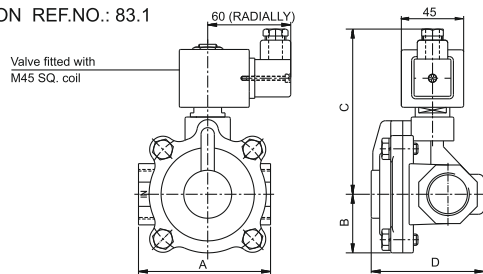
ELECTRICAL REFERENCE

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		

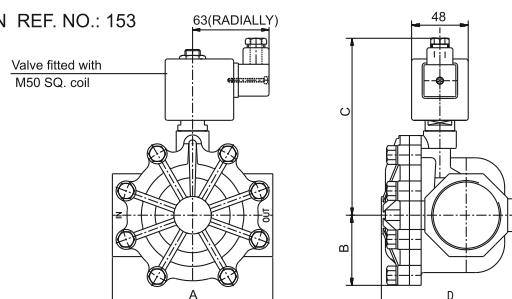
DIMENSIONS IN (MM)

Catalogue Number		Pipe Size Inch	Constr. Ref.	A	B	C	D	Weight (Approx.)
Normally Closed	Normally Open							Kgs. ◇
9100F104	9120F104	3/8	83.1	65	29	109	54	1.072
9100F154	9120F154	1/2	83.1	65	29	109	54	1.072
9100F204	9120F204	3/4	83.1	80	36	113	66	1.502
9100F254	9120F254	1	83.1	95	41	121	77	1.517
9100F304	9120F304	1 1/4	83.1	100	45	123	90	1.967
9100F354	9120F354	1 1/2	83.1	118	56.5	125	97	2.417
9100F504	9120F504	2	153	137	70	145	117	3.637
9100F654	9120F654	2 1/2	153	172	89	166	143	5.053
9100F754	9120F754	3	153	195	94	176	156	6.433

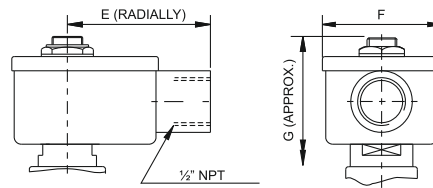
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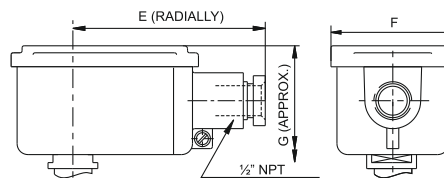
CONSTRUCTION REF. NO.: 153



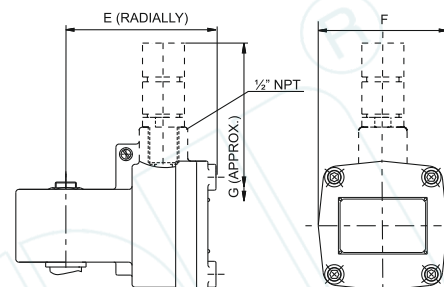
Valve fitted with M45 / M50 RD GP coil - General purpose enclosure as per IP-20



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.	E (RADIAL)			F			G (APPROX.)		
Normally Closed	Normally Open			RD GP	RD WP	FLP	RD GP	RD WP	FLP	RD GP	RD WP	FLP
9100F104	9120F104	3/8	83.1	60	96	96	48	62	80	96	104	174
9100F154	9120F154	1/2	83.1	60	96	96	48	62	80	96	104	174
9100F204	9120F204	3/4	83.1	60	96	96	48	62	80	100	108	178
9100F254	9120F254	1	83.1	60	96	96	48	62	80	108	116	186
9100F304	9120F304	1 1/4	83.1	60	96	96	48	62	80	110	118	188
9100F354	9120F354	1 1/2	83.1	60	96	96	48	62	80	112	120	190
9100F504	9120F504	2	153	60	96	96	48	62	80	132	140	210
9100F654	9120F654	2 1/2	153	66	96	96	57	68	80	157	162	227
9100F754	9120F754	3	153	66	96	96	57	68	80	167	172	237

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

Ed.9100F/9120F-Dec-2025

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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