

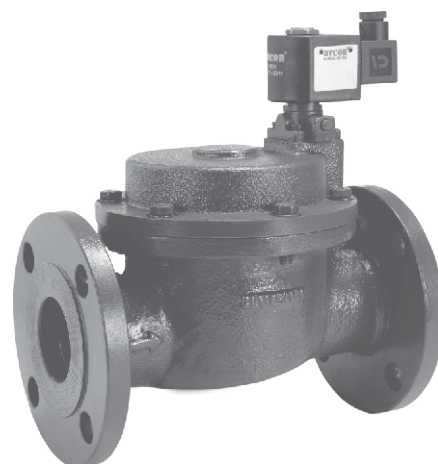
2/2-Way Pilot Operated, Flanged Piston Type, Solenoid Valves.

DATA SHEET
9160P
9162P

9160P - Normally Closed, Energised To Open,
9162P - Normally Open, Energised To Close.

SPECIFICATIONS

Sizes	: 25 mm to 200 MM	25 mm to 200 mm
End Connections	: Flanged to ASA 150 RF, Optional-Drilled to other standard.	
Face to Face	: As per DIN 3202 Part 1 Series F1.	
Body Material	: SGI (DI) IS 1865-400/15, Stainless Steel Seat.	WCB/CF8/CF8M, Stainless Steel Seat
Body Test Pressure	: 15 Bar(Refer to table below)	40 Bar
Max. Wkg. Pressure	: 20 Bar (Refer to table below).	
Seat Material	: PTFE (Teflon).	
Core Tube	: 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)	: 220, 110,24, 12.	
Enclosures	: General Purpose (IP20), Weatherproof- RD-WP-67. Flameproof-RD-FLP-IIC+WP67.	
Approvals	: KLPL/PESO/CE/ATEX/BIS.	
Differential Pr.	: 2 to 25 bar (Refer to table below).	
Coil Insulation	: Class 'H' upto 155Deg.C.	
Fluids	: Air,Water,Gas,Light Oil.	
Manual Override	: Only for 9160P-Normally Closed. Not available for 9162P-Normally Open.	
Sales Point	: Reliable and maintenance free, On-Off valve in Flanged construction.	
Application	: Furnaces, Boilers,Textile machinery,Treatment Plant, Ash handling plant, Sugar Machinery plant, etc.	
Mounting	: In horizontal pipeline, keeping solenoid upright and vertical.	
Note	1) Use of Filter in the inlet side is highly recommended. 2) For DC Valves - No Shading ring & For AC Valves - Aluminium, Optional -Silver shading ring available. 3) Not suitable for back pressure from outlet side.	

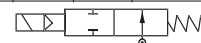


SPECIFICATION TABLE 2/2 WAY NORMALLY CLOSED



Catalogue Number	Pipe Size	Orifice Size	Flow Factor Kv	Minimum Pressure	Maximum Operating Pressure (bar)						BTP	Material		Constr. Ref.	VA Rating	Watt Rating	Coil	Housing
					AC			DC							AC	DC		
	Inch	mm	M3/hr.	bar	Air/Gas	Water	Light Oil	Air/Gas	Water	Light Oil	bar	Body	Seat		AC	DC	Type	
9160P255	1	25	11	2	24	22	20	25	22	20	15	SGI	PTFE	34.1	18	12	M45.1	SQ
9160P405	1 ½	35	23	2	24	22	20	25	22	20	15	SGI	PTFE	34.1	18	12	M45.1	SQ
9160P505	2	50	39	2	20	18	16	20	18	16	15	SGI	PTFE	34.1	18	12	M45.1	SQ
9160P655	2 ½	63	46	2	18	16	14	20	18	14	15	SGI	PTFE	162	36	22	M50	SQ
9160P755	3	76	64	2	18	16	14	18	16	14	15	SGI	PTFE	162	36	22	M50	SQ
9160P1005	4	94	101	2	14	14	12	14	14	12	15	SGI	PTFE	162	36	22	M50	SQ
9160P1505	6	146	230	2	12	8	8	12	8	8	15	SGI	PTFE	162	36	22	M50	SQ
9160P2005	8	194	300	2	5	5	5	5	5	5	15	SGI	PTFE	162	36	22	M50	SQ

2/2 WAY NORMALLY OPEN



9162P255	1	25	11	2	22	20	18	23	20	18	15	SGI	PTFE	34.1	18	12	M45.1	SQ	
9162P405	1 ½	35	23	2	22	20	18	23	20	18	15	SGI	PTFE	34.1	18	12	M45.1	SQ	
9162P505	2	50	39	2	18	16	14	18	16	14	15	SGI	PTFE	34.1	18	12	M45.1	SQ	
9162P655	2 ½	63	46	2	16	14	12	18	16	12	15	SGI	PTFE	162	36	22	M50	SQ	
9162P755	3	76	64	2	16	14	12	16	14	12	15	SGI	PTFE	162	36	22	M50	SQ	
9162P1005	4	94	101	2	8	6	4	8	6	4	15	SGI	PTFE	162	36	22	M50	SQ	
9162P1505	6	146	230	2	8	5	3	8	5	3	15	SGI	PTFE	162	36	22	M50	SQ	
9162P2005	8	194	300	2	3.5	3.5	3.5	3.5	3.5	3.5	15	SGI	PTFE	162	36	22	M50	SQ	

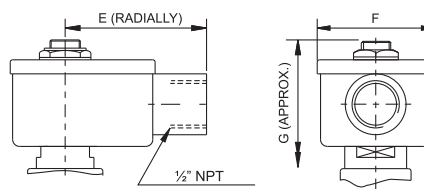
ELECTRICAL REFERENCE

Coil Type	Power Consumption & Watt Rating			Class of Insulation	Protection	Certification Standard
	AC		DC			
	VA Inrush	VA Holding	Watts			
M 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		

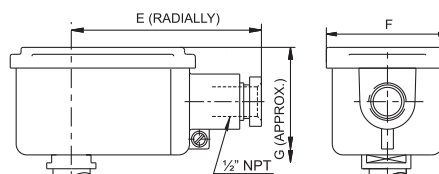
DIMENSIONS IN (MM)

Catalogue Number		Pipe Size Inch	Constr. Ref.	A DIN 3202	B	C	ØD	Weight (Approx.)
Normally Closed	Normally Open							Kgs. ♦
9160P255	9162P255	1	34.1	160	54	158	105	5.90
9160P405	9162P405	1 ½	34.1	200	64	166	135	8.60
9160P505	9162P505	2	34.1	230	76	176	160	13.80
9160P655	9162P655	2 ½	162	290	89	208	180	20.60
9160P755	9162P755	3	162	310	96	223	200	25.60
9160P1005	9162P1005	4	162	350	115	238	225	44.00
9160P1505	9162P1505	6	162	480	140	268	316	63.00
9160P2005	9162P2005	8	162	600	172.5	229.5	395	139.00

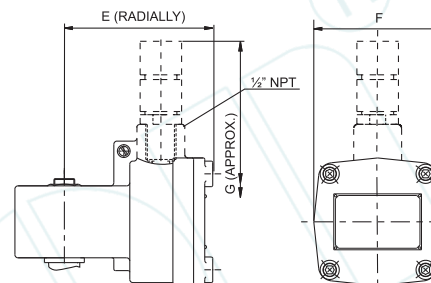
Valve fitted with M45 / M50 RD GP coil - General purpose enclosure as per IP-20



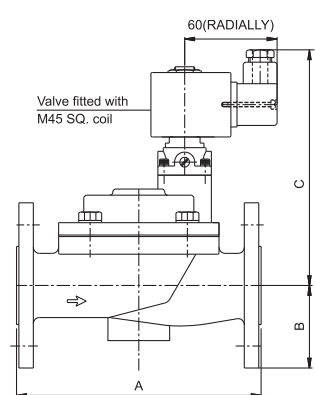
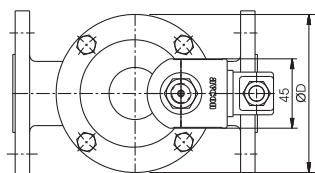
Valve fitted with M45 / M50 RD coil - Waterproof metallic enclosure as per IS/IEC 60529-2001 IP-67



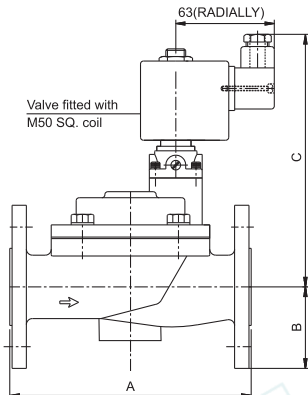
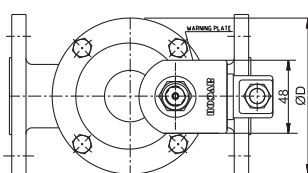
Valve fitted with M45 / M50 FLP IIC coil - Flameproof metallic enclosure as per IS/IEC 60079-1-2014 IP-67.



CONSTRUCTION REF. NO.: 34.1



CONSTRUCTION REF. NO.: 162



Catalogue Number		Pipe Size Inch	Constr. Ref.	E (RADIALLY)			F			G (APPROX.)		
Normally Closed	Normally Open			RD GP	RD WP	FLP	RD GP	RD WP	FLP	RD GP	RD WP	FLP
9160P255	9162P255	1	34.1	60	96	96	48	62	80	145	153	223
9160P405	9162P405	1 ½	34.1	60	96	96	48	62	80	153	161	231
9160P505	9162P505	2	34.1	60	96	96	48	62	80	163	171	241
9160P655	9162P655	2 ½	162	66	96	96	57	68	80	199	205	269
9160P755	9162P755	3	162	66	96	96	57	68	80	214	219	284
9160P1005	9162P1005	4	162	66	96	96	57	68	80	229	234	299
9160P1505	9162P1505	6	162	66	96	96	57	68	80	259	264	329
9160P2005	9162P2005	8	162	66	96	96	57	68	80	402	402	402

♦ 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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