

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

DATA SHEET  
9160KXX/SGI  
9162KXX/SGI

Normally Closed, Energised To Open,  
Normally Open, Energised To Close.

## SPECIFICATIONS

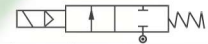
Sizes	: 25mm (1") to 150mm (6").
End Connections	: Flanged to ASA 150 RF, Optional-Drilled to other standards.
Face to Face	: As per DIN 3202 Part I Series F1.
Construction-Body	: Standard-SGI (DI) IS 1865-400/15. Stainless Steel Seat.
-Seat	: Standard - Hytrel, Optional - Nitrile (Buna 'N').
Differential Pressure	: 0.6 to 10 bar (Refer specs table).
Temperature of fluid	: -5°C to 90°C.
Coil Voltage	: Standard - 230-volts, 50Hz. AC. 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, gas, light oil, water.
Feature	: Manual override(Only for 9160K). No Manual Override in 9162K Design.
Sales Point	: Flanged valve body in SGI (DI) material, reliable and build around modular concept.
Application	: Textile processing machinery, sugar machinery, silo fluid station, dust suppression with wherever dependable on-off type control is required.



Mounting : In horizontal pipeline; keeping solenoid upright & vertical.

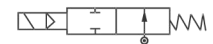
Note : 1) USE OF FILTER IN THE INLET SIDE IS HIGHLY RECOMMENDED.  
2) HYTREL DIAPHRAGMS ARE MANUFACTURED IN HOUSE WITH OUR PROPRIETARY FORMULAS

## SPECIFICATION TABLE 2/2 WAY NORMALLY CLOSED



Catalogue Number	Pipe Size	Orifice Size	Flow Factor K <sub>v</sub>	Minimum Pressure	Maximum Operating Pressure (bar)						BTP	Material Ref.		Constr. Rating	VA Rating		Watt	Coil	Housing
					AC			DC				Body	Seat		AC	DC			
					Air/Gas	Water	Light Oil	Air/Gas	Water	Light Oil									
9160K255	1	25	11	0.6	10	10	10	10	10	10	15	SGI	Hyt.	32.1	18	12	M45.1	SQ	
9160K405	1 ½	35	23	0.6	10	10	10	10	10	10	15	SGI	Hyt.	32.1	18	12	M45.1	SQ	
9160K505	2	50	39	0.6	10	10	10	10	10	10	15	SGI	Hyt.	32.1	18	12	M45.1	SQ	
9160K655	2 ½	63	46	0.6	10	10	10	10	10	10	15	SGI	Hyt.	161	36	22	M50	SQ	
9160K755	3	76	64	0.6	8	8	7	7	7	7	15	SGI	Hyt.	161	36	22	M50	SQ	
9160K1005	4	94	101	0.6	5	5	5	5	5	5	15	SGI	Hyt.	161	36	22	M50	SQ	
9160K1505	6	146	230	0.6	4	4	4	4	4	4	15	SGI	Hyt.	161	36	22	M50	SQ	

## 2/2 WAY NORMALLY OPEN



9162K255	1	25	11	0.6	10	10	10	10	10	10	15	SGI	Hyt.	32.1	18	12	M45.1	SQ
9162K405	1 ½	35	23	0.6	10	10	10	10	10	10	15	SGI	Hyt.	32.1	18	12	M45.1	SQ
9162K505	2	50	39	0.6	10	10	10	10	10	10	15	SGI	Hyt.	32.1	18	12	M45.1	SQ
9162K655	2 ½	63	46	0.6	10	10	10	10	10	10	15	SGI	Hyt.	161	36	22	M50	SQ
9162K755	3	76	64	0.6	8	8	7	7	7	7	15	SGI	Hyt.	161	36	22	M50	SQ
9162K1005	4	94	101	0.6	5	5	5	5	5	5	15	SGI	Hyt.	161	36	22	M50	SQ
9162K1505	6	146	230	0.6	4	4	4	4	4	4	15	SGI	Hyt.	161	36	22	M50	SQ

## ELECTRICAL REFERENCE

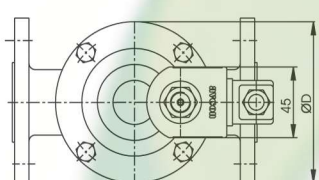
Coil Type	Power Consumption & Watt Rating			Class of Insulation	Protection
	AC		DC		
	VA Inrush	VA Holding	Watts		
M 45.1 SQ	25	18	12	H	GP/WP IP-67
M 50 SQ	50	36	22	H	GP/WP IP-67
M 45.1 RD	25	18	12	H	GP/WP IP-67
M 50 RD	50	36	22	H	GP/WP IP-67
M 45.1 FLP IIC	25	18	12	H	IS/IEC 60079-1:2007, Group IIC.
M 50 FLP IIC	50	36	22	H	IS 12063-1987 IP-66 (IEC 60529:1989).

## DIMENSIONS IN (MM)

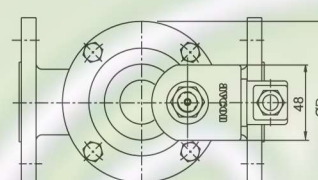
Catalogue Number		Pipe Size Inch	Constr. Ref.	A DIN 3202	B	C	ØD	Weight (Approx.)
Normally Closed	Normally Open							Kgs. ♦
9160K255	9162K255	1	32.1	160	54	148	105	5.300
9160K405	9162K405	1 ½	32.1	200	64	166	135	7.900
9160K505	9162K505	2	32.1	230	76	173	160	12.200
9160K655	9162K655	2 ½	161	290	89	198	180	18.800
9160K755	9162K755	3	161	310	96	192	200	23.600
9160K1005	9162K1005	4	161	350	115	228	225	40.000
9160K1505	9162K1505	6	161	480	140	268	316	55.000

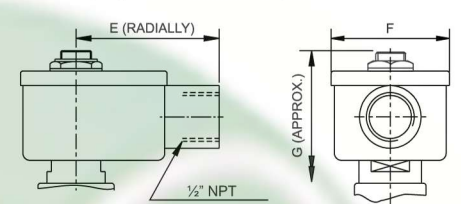
**CONSTRUCTION REF. NO.: 32.1**



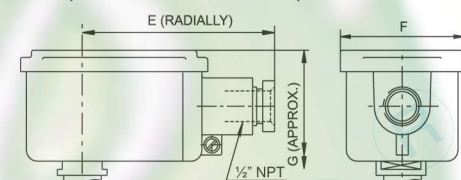
**CONSTRUCTION REF. NO.: 161**



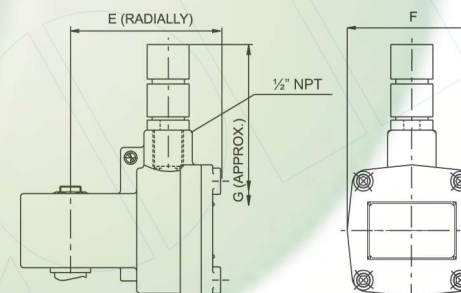
Valve fitted with M45 / M50 RD GP coil - General purpose enclosure as per IP-20



Valve fitted with M45 / M50 RD WP coil - Waterproof metallic enclosure as per IS 12063-1987 IP-67



Valve fitted with M45 / M50 FLP IIC coil - Flameproof metallic enclosure as per IS/IEC-60079-1:2007.



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
9160K255	9162K255	1	32.1	60	96	96	48	62	80	135	143	213
9160K405	9162K405	1 ½	32.1	60	96	96	48	62	80	153	161	231
9160K505	9162K505	2	32.1	60	96	96	48	62	80	160	168	238
9160K655	9162K655	2 ½	161	66	96	96	57	68	80	189	194	259
9160K755	9162K755	3	161	66	96	96	57	68	80	183	188	253
9160K1005	9162K1005	4	161	66	96	96	57	68	80	219	224	289
9160K1505	9162K1505	6	161	66	96	96	57	68	80	259	264	329

♦ 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.