

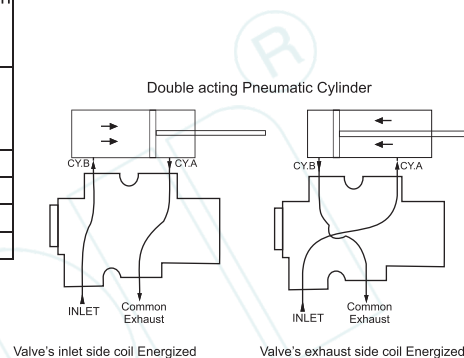
4/2 Way Pilot Operated Poppet Type Solenoid Valves.

2 POSITION DUAL SOLENOID VALVES,
4 WAY / 4 PORT (COMMON EXHAUST) / 2 POSITION.

DATA SHEET
9442E-CF8/CF8M

SPECIFICATIONS

Sizes	: 1/4" (6 mm) & 1" (25 mm).
End Connections	: Standard-G-ISO-228(BSP-F), Optional-NPT.
Body & Piston	: Investment Casted CF8 / CF8M.
Body Test Pressure	: 40 Bar.
Max.Wkg.Pressure	: 9 Bar & 19 Bar (Refer table below).
Seat Material	: Std. : Buna Nitrile, 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 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.	: From 0.7 to 9 bar (9442E06-25) & from 2 to 19 bar (9442E07-26).
Coil Insulation	: Class 'H' upto 155Deg.C.
Fluids	: Air, Gas, Light Oil.
Manual Override	: Standard.
Mounting Bracket	: Not Applicable.
Sales Point	: Heavy duty, high flow, reliable, semi-poppet valve for multimillion operations. Rugged construction, design Investment Casted CF8/CF8M with BN seat.
Application	: For operating Double Acting Cylinders, forging and moulding processes, machine tools, power generation, Ash handling plant, LPG bottling equipment and others.
Mounting	: In horizontal pipeline, keeping solenoid upright and vertical.
Note	: 1) Use of Filter in the inlet size is highly recommended. 2) Not suitable for back pressure from outlet side. 3) Available with special Weatherproof and Flameproof coils.



SPECIFICATION TABLE

4/2 POSITION DOUBLE SOLENOID (Low pressure 10 bar.)

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	Air/Gas	Light Oil	Air/Gas	Light Oil		Body	Seat		AC	AC	Type	
9442E06	1/4	6.3	0.7	0.7	17	9	9	7	40	CF8M	BN	500	18	12	M45.1	SQ
9442E10	3/8	12.7	1.9	0.7	17	9	9	7	40	CF8M	BN	500	18	12	M45.1	SQ
9442E15	1/2	12.7	1.9	0.7	17	9	9	7	40	CF8M	BN	500	18	12	M45.1	SQ
9442E20	3/4	19	4.8	0.7	17	9	9	7	40	CF8M	BN	500	18	12	M45.1	SQ
9442E25	1	19	4.8	0.7	17	9	9	7	40	CF8M	BN	500	18	12	M45.1	SQ

◆ Above pressure range can be improved with higher wattage coil.

4/2 POSITION DOUBLE SOLENOID (High pressure 19 bar.)

9442E07	1/4	6.3	0.7	2	19	24	24	9	7	40	CF8	BN	501	34	20	M50	SQ
9442E11	3/8	12.7	1.9	2	19	24	24	9	7	40	CF8	BN	501	34	20	M50	SQ
9442E16	1/2	12.7	1.9	2	19	20	14	9	7	40	CF8	BN	501	34	20	M50	SQ
9442E21	3/4	19	4.8	2	19	20	14	9	7	40	CF8	BN	501	34	20	M50	SQ
9442E26	1	19	4.8	2	19	20	14	9	7	40	CF8	BN	501	34	20	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)

CONSTRUCTION REF.: 500 Valve fitted with M45 SQ. coil 60 (RADIALY) 60 (RADIALY) A B J crs D crs 2Nos. Holes FOR MOUNTING L crs C EX PR K crs BOTTOM VIEW WITHOUT COIL											
CONSTRUCTION REF.: 501 Valve fitted with M50 SQ. coil 63 (RADIALY) 63 (RADIALY) A B J crs D crs 2Nos. Holes FOR MOUNTING L crs C EX PR K crs BOTTOM VIEW WITHOUT COIL											
Valve fitted with M45 / M50 RD GP coil - General purpose enclosure as per IP-20 E (RADIALY) F G (APPROX.) 1/2" NPT Valve fitted with M45 / M50 RD coil - Waterproof metallic enclosure as per IS/IEC 60529-2001 IP-67 E (RADIALY) F G (APPROX.) 1/2" NPT Valve fitted with M45 / M50 FLP IIC coil - Flameproof metallic enclosure as per IS/IEC 60079-1:2014. E (RADIALY) F G (APPROX.) 1/2" NPT											
Catalogue Number	Pipe Size (Inch)	Constr. Ref.	A	B	C	D	K	J	L	H	Weight (Approx.) Kgs. ◇
9442E06	1/4	500	133	125	80	26	36	48	61	7	2.3
9442E10	3/8	500	165	127	82	38	48	67	79	7	3.2
9442E15	1/2	500	165	127	82	38	48	67	79	8.5	3.2
9442E20	3/4	500	210	142	116	54	53	99	97	8.5	6.6
9442E25	1	500	210	142	116	54	53	99	97	8.5	6.6
Catalogue Number	Pipe Size (Inch)	Constr. Ref.	A	B	C	D	K	J	L	H	Weight (Approx.) Kgs. ◇
9442E07	1/4	501	122	130	80	26	36	48	61	7	2.3
9442E11	3/8	501	155	132	82	38	48	67	79	7	3.2
9442E16	1/2	501	155	132	82	38	48	67	79	8.5	3.2
9442E21	3/4	501	200	200	116	54	53	99	97	8.5	6.6
9440E26	1	501	200	200	116	54	53	99	97	8.5	6.6

Catalogue Number		Pipe Size	E (RADIALLY)			F			G (APPROX.)		
		Inch	RD GP	RD WP	FLP	RD GP	RD WP	FLP	RD GP	RD WP	FLP
9442E06	9442E07	1/4	60	96	96	48	62	80	135	139	213
9442E10	9442E11	3/8	60	96	96	48	62	80	137	141	215
9442E15	9442E16	1/2	60	96	96	48	62	80	137	141	215
9442E20	9442E21	3/4	60	96	96	48	62	80	152	160	230
9442E25	9442E26	1	60	96	96	48	62	80	152	160	230

◇ 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.

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