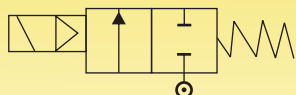




AVCON SERIES R641E SOLENOID VALVES FOR AUTOMATION

2/2 WAY – NORMALLY CLOSED – INTERNAL PILOT OPERATED WITHOUT MANUAL OVERRIDE.

SERIES R641E

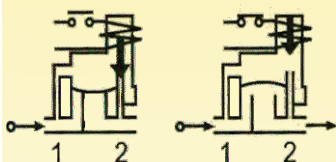


N.C.

Normally Closed

Coil energised - Open

Coil de-energised - Closed



General Description:

Series R641E Solenoid Valves are Diaphragm Pilot Operated and require very low minimum differential pressure to operate. Valves are used for application where High Flow Rate is required. Valves are suitable for general application with media such as Water at room temperature. Filtered Water without suspended or dissolved impurities must be used.

End connection: 'G'-ISO-228 (BSP-F) & Optional: RP (1507/1) BSPT.

Max. Temperature range: Working temperature for media is (-)5°C & Max. with EPDM Diaphragm: 80°C. Max. ambient temperature with Class 'H' insulated (180°C) coil; temperature range of fluid: Minimum (-)5°C and maximum 65°C.

Manual override: Not available.

Mounting: Valves are self mountable on pipeline.

Coils: Series R641E Solenoid Valves with M30 having typical characteristics of Pulse to Close, Pulse to Open function. Solenoid need not be energized throughout. Coils are available in Class 'H' insulated (180°C) coil; encapsulated in Thermo Plastic containing 30% Glass filled.

Rated voltage: :4.5 to 12V, using 9V Dry Cell Battery.

Coil consumption: : 4.0 Watts.

Tolerance limit: : (+)3/(-)3 Volts.

For switching circuit: Refer to Connection Diagram.

Approval: M30-RD Coil - Approval awaited.

Materials:

Size	: 15 mm (1/2") to 50 mm (2") BSP or BSPT.
Valve Body	: Glass filled Nylon PA6.
Seals (Seating)	: EPDM
Tube Nut	: St.St. 316.
Plunger & Stopper	: AISI SS 430 FR.
Spring	: AISI SS 302
Shading Ring	: DC: No shading ring.
Standard Coil Type	: DC-M30-RD 50 Hz. Rating: 4 Watts.
Sales Points	: Most reliable maintenance free on-off valve for low cost automation.

Note

- : 1) Normally Open design Not Available.
- : 2) Use of fine gauge filter in the inlet side is highly recommended.
- 3) Do not install bigger size of Solenoid Valve on smaller size pipeline.

Installation: Valves can be mounted in any position, except "Inverted", preferably in Horizontal pipeline with magnetic construction in vertical and upright position.

Series R641E Solenoid Valves are not designed for Back Pressure coming from downstream side.



CAUTION: VALVES ARE NOT TO BE USED ON OIL, STEAM, FUEL GAS, HOT WATER, WATER BELOW (-)15°C, VIBRATING MACHINERY.

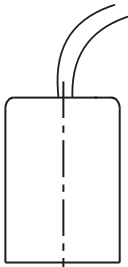
SPECIFICATIONS:

Series	Size 'G' thr	Orifice Size	Flow Factor Kv	Body Material	Seat	BTP	Working Pr.(bar)		Coil Type	Coil Rating		Constr. Ref. No	Weight kgs
							230V AC	24V DC		VA	Watt		
R641E	Inch	mm	M ³ /hr.			bar	min	max		~	=		
15	1/2	15	4.0	PA 6	EPDM	10	-	6	M 30-RD	-	4.8	760	0.735
20	3/4	20	5.2	PA 6	EPDM	10	-	6	M 30-RD	-	4.8	760	0.735
25	1	25	8.6	PA 6	EPDM	10	-	6	M 30-RD	-	4.8	760	0.756
35	1 1/2	35	17.3	PA 6	EPDM	10	-	6	M 30-RD	-	4.8	760	1.233
50	2	50	30.5	PA 6	EPDM	10	-	6	M 30-RD	-	4.8	760	1.304

Minimum details required for submitting offer : Size, Body material, seating, medium name, Flow (M3/hr), pressure (bar), temp. Deg.C, coil voltage DC., Quantity (Nos), etc.

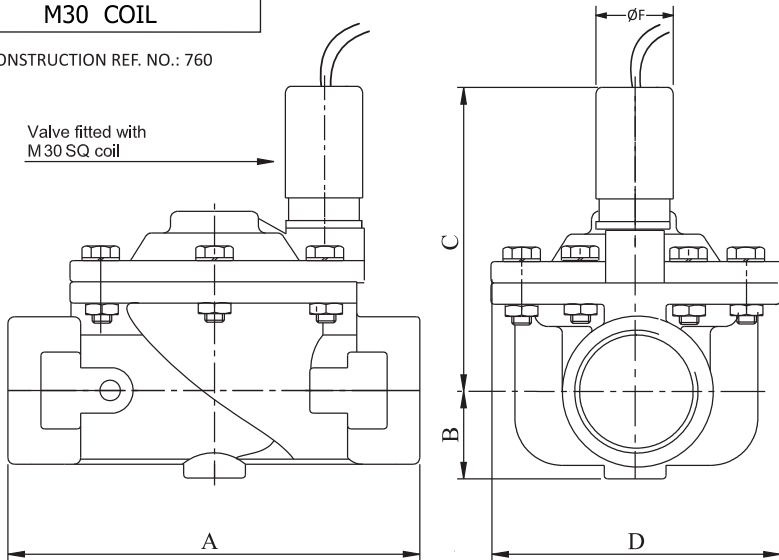


COIL TYPE	POWER CONSUMPTION & WATT RATING			Class of Insulation	Protection	Certification Standard
	AC		DC			
	VA Holding	Watts	Watts			
M30	—	—	4.8	H	WP-IP-67	Approval Awaited

 M30 COIL	CATALOGUE NO.	Size (Inch)	DIMENSION IN MM.				
			A	B	C	D	ØF
	R641E 15	1/2	110	20	93	81	29
	R641E 20	3/4	110	20	93	81	29
	R641E 25	1	110	22	93	81	29
	R641E 35	1 1/2	162	30	115	126	29
	R641E 50	2	172	37	115	126	29

CONSTRUCTION REF. NO.: 760

Valve fitted with M30 SQ coil



Note:

Technical specifications, details & dimensions are subject to change without prior notice.
Dimensions in the table are approximate subject to final confirmation by AVCON.

WESTERN			EASTERN		
Mumbai Plot No. 65, Road No. 13, MIDC Marol, Andheri (East), Mumbai - 400 093 Tel.No.: 022-6915 6100 / 83909 17431 E-mail : acplmumbai.sales@avconcontrols.com	Pune Plot No. T - 108, MIDC Bhosari, Pune - 411 026. Maharashtra (INDIA). Tel.No.: 020-2712 0776 / 2712 0540 E-mail : acplmumbai.sales@avconcontrols.com	Baroda 307, Mangaldeep Complex, Sampatrao Colony, Productivity Road, Baroda - 390 005. Tel.No.: 022-6915 6100 / 83909 17431 E-mail : acplmumbai.sales@avconcontrols.com	Kolkata 720, 7th Floor, 33/1, N.S. Road, Marshal House, Kolkata-700 001. Tel.No.: 033-4068 1180 / 77109 00889 E-mail : acplmumbai.sales@avconcontrols.com		
SOUTHERN			NORTHERN		
Chennai 249, First Floor, Tiny Sector Ambattur Industrial Estate, Chennai - 600 058 Tel.No.: 044-4807 4107 / 089393 12809 E-mail : acplmumbai.sales@avconcontrols.com	Hyderabad SSR ENCLAVE, Plot No. 81, Road No.4, Vasanth Nagar, Nizampet X Roads (Near JNTU College Metro Station.) Hyderabad - 500085. Tel.No.: 7995086416 E-mail : acplmumbai.sales@avconcontrols.com	Bangalore Tel.No.: 084312 56574 E-mail : acplmumbai.sales@avconcontrols.com	New Delhi Unit No. 708, 7th Floor, 94 Meghdoot, Nehru Place, New Delhi - 110019 Tel.No.: 011-42639736 / 88282 69844 E-mail : acplmumbai.sales@avconcontrols.com		