

ELECTRIC ON/OFF GLOBE VALVES EV15 (ASME)

DESCRIPTION

The ADCATrol EV15 is a series of single seated, two-way electric on/off globe valves with electric actuator. These valves are suitable for use with the most common process fluids such as steam, water, superheated water, air, neutral gases and oils.

MAIN FEATURES

Easy to service.
Compact and cost-effective.
Ambient temperature from -10 to 60 °C (others on request).
24 V AC, 115 V AC, 230 V AC, 400 V AC 50/60 Hz and 24 V DC supply voltages.
Manual operation with disengagement of the actuator motor.
Valve protection against excessive force due to load-dependent seating.
Defined closing force at the end positions leading to tight valve shutoff.
Mechanical stroke indication via anti-rotation bar.

OPTIONS AND

ACCESSORIES: Limit switches.
Heating resistor.

USE: Saturated steam.
Hot and superheated water.
Air, gases and others.

AVAILABLE MODELS: EV15S – carbon steel.
EV15i – stainless steel.

SIZES: 1/2" to 6".

CONNECTIONS: Flanged ASME B16.5 Class 150 or 300.



CE MARKING – GROUP 2 (PED – EUROPEAN DIRECTIVE)		
CLASS 150	CLASS 300	CATEGORY
1/2" to 2"	1/2" to 1"	SEP
2 1/2" to 6"	1 1/2" to 4"	1 (CE marked)
–	6"	2 (CE marked)

BODY LIMITING CONDITIONS *

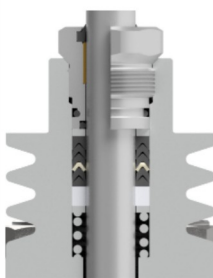
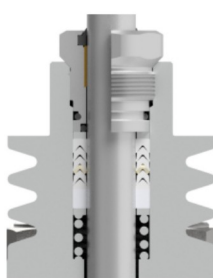
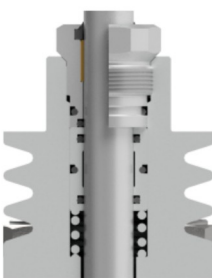
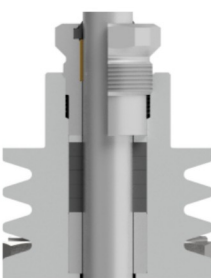
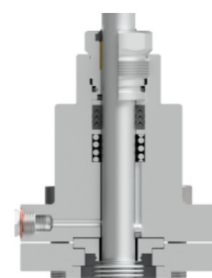
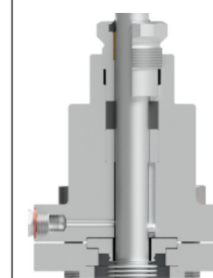
EV15S				EV15i			
CLASS 150		CLASS 300		CLASS 150		CLASS 300	
ALLOW. PRESS.	RELAT. TEMP.	ALLOW. PRESS.	RELAT. TEMP.	ALLOW. PRESS.	RELAT. TEMP.	ALLOW. PRESS.	RELAT. TEMP.
19,3 bar	-10 / 50 °C	50 bar	-10 / 50 °C	18,4	-10 / 50 °C	48,1	-10 / 50 °C
15,8 bar	150 °C	43,9 bar	200 °C	14,4	200 °C	35,8	200 °C
12,1 bar	250 °C	36,9 bar	350 °C	12	350 °C	30,4	350 °C
8,4 bar	350 °C	34,6 bar	400 °C	8,4	400 °C	29,3	400 °C

* Rating according to EN 1759-1:2004.

BONNET DESIGN

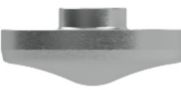
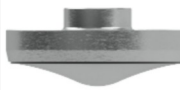
STANDARD	EXTENDED
 -10 °C to 250 °C	 Above 250 °C

STEM SEALING

PTFE/GR V-RINGS (V1.2)	PTFE V-RINGS (V2.2)	EPDM (EP1)	GRAPHITE (G1)	BELLOWS	
				(BV1)	(BG1)
					
-10 to 220 °C	-10 to 180 °C	-10 to 150 °C *	-10 to 400 °C	- 60 to 220 °C **	- 60 to 400 °C **

* Up to 180 °C in steam and hot water applications; ** Maximum operating pressure: 25 bar.

PLUG DESIGN

PARABOLIC	PARABOLIC (SOFT SEALING)
 Sealing: Metal to metal Characteristic: Quick-opening (On/Off) Flow direction: From below Leakage: Class V, acc. to IEC 60534-4	 Sealing: PTFE/GR Characteristic: Quick-opening (On/Off) Flow direction: From below Leakage: Class VI, acc. to IEC 60534-4 Max. temp.: 200 °C

FLOW RATE COEFFICIENTS (m³/h)

SIZES	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"
Kvs	5,1	6,3	10	25	40	63	100	160	370
SEAT Ø (mm)	19,2	19,2	25	38	48	65	76	96	150
STROKE (mm)	5	8	8	10	12,5	20	20	25	38

For conversion Kvs = Cv (US) x 0,865.