

2-Way Full Port, Ball Valve, 2-Piece Design with Pneumatic Rotary Actuator (Available in Fire Safe and Non Fire Safe Designs).

DATA SHEET
2390 F

AVCON produces 2-way, 2-piece Ball Valves with ISO 5211 mounting pad. Valves can be provided with Direct Mount or Bracket mount couplers for fitting Pneumatic Rotary Actuators, either Double Acting or Spring Return type. For details of Pneumatic Actuators, Please refer to AVCON Leaflet 'ACT'- Range Series. These Flanged end Ball Valves are having face to face dimensions as per DIN/EN 558-2012. Pneumatic Actuators having NAMUR mounting interface, are available with AVCON NAMUR 5-way, 2-Position Solenoid Valves Type 9484E, 9384E, 9485E and 9385E.



SPECIFICATION:

Size	: 15mm (1/2") to 150mm (6").
Body and End Piece	: Investment Casted Cast Steel ASTM A 216 WCB (DIN 1.0619 GS-C 25). or Stainless Steel ASTM A351 CF8 (DIN1.4301) or CF8M(DIN1.4408) (GX6 Cr.Ni MO17.13.3).
Ball	: Stainless Steel AISI 316.
Design	: API-6D & API 607 Std. Fire safe design.
Stem and Stem nut	: Stainless Steel AISI 316.
Ball seat	: Reinforced PTFE.
Stem seals	: Reinforced PTFE.
Body gasket	: PTFE.
Antistatic device	: Stainless Steel SS 316.
Pressure-temp. Rating	: As per ASME B16.34 Class 300.
Body pressure Rating	: As per ASME B16.34 Class 300.
End connection	: Flanged to ASME B16.5 Class 150.
Leakage Class	: As per ANSI FCI-70-2. Teflon seating Class VI.
Characteristics	: On-Off.
Temperature	: Continuous 180°C with Bracket mount.

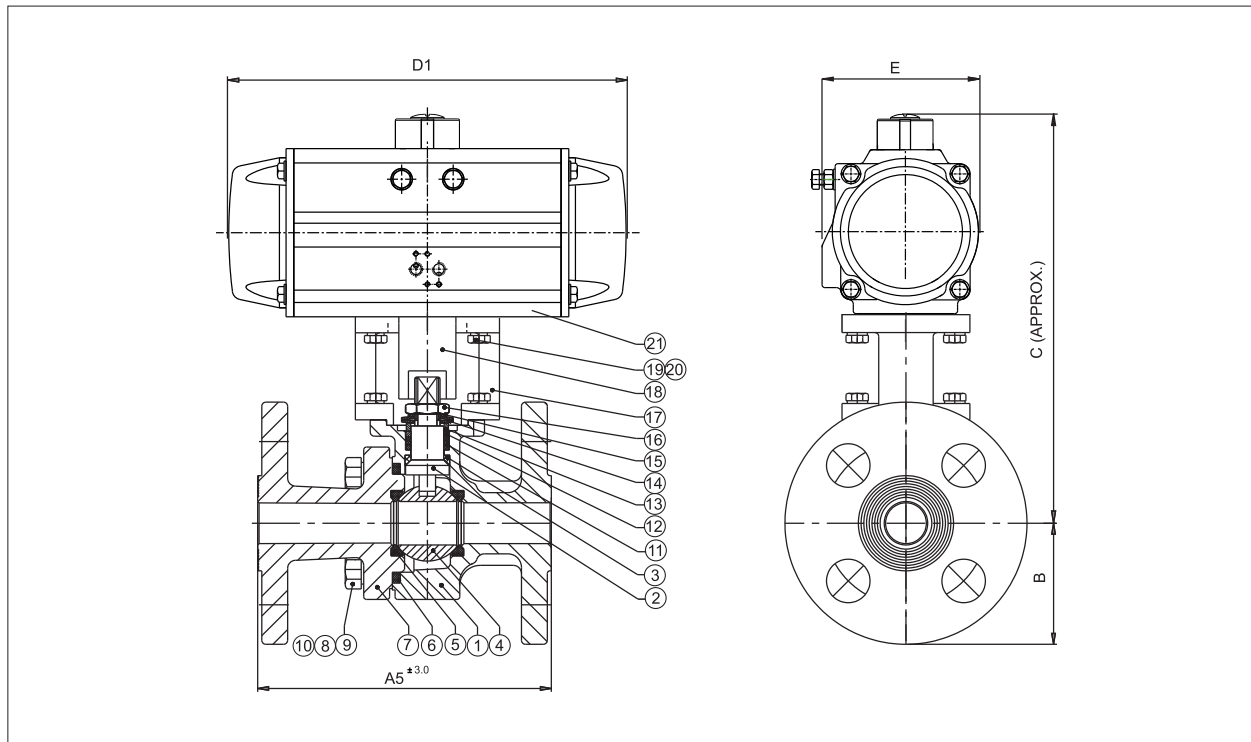
Air supply requirement	: 4 to 8.5 bar. (Line fluid pressure dependent).
Manual Operation (optional)	: Provision for manual Hand- lever type for ACT-63-D/S actuator. Manual hand gear operator for ACT-90-D/S onward.
Accessories	: Local position indicator, Rotary Limit Switch box, Air Lock Relay, Solenoid Valves, Valve Positioner, etc.
Sales Point	: Highly reliable, long life, Simple in construction and maintenance free Ball Valve.
Application	: For air, water, oil, gas, corrosive chemicals, Combustion equipment, Power Stations, Hydro-Electric, Power Generation, chemicals and petrochemicals industries, Water treatment plants. RO Plants, etc.

ACTUATOR :

Double Acting	: "D" - NC/NO
Spring Return	: "S" - NC/NO

SPECIFICATION TABLE FOR FULL PORT BALL VALVE:

Catalogue Number	Size		Orifice Size (mm)	Flow Factor Kv	Body Test Pressure	Working Pressure	Actuator Type		Open Time (Approx.)		Air Consumption (litres)			
							S	D	Secs.		S		D	
	Inch	mm	mm	m3/h	bar	bar	Spring Return	Double	S	D	Open	Close	Open	Close
2390 F 155	1/2	15	15	10.40	40	12	ACT-63	ACT-63	0.4	0.3	0.2	-	0.2	0.3
2390 F 205	3/4	20	20	27.52	40	12	ACT-63	ACT-63	0.4	0.3	0.2	-	0.2	0.3
2390 F 255	1	25	25	48.00	40	12	ACT-63	ACT-63	0.4	0.3	0.2	-	0.2	0.3
2390 F 405	1 1/2	40	40	103.00	40	12	ACT-63	ACT-63	0.4	0.3	0.2	-	0.2	0.3
2390 F 505	2	50	50	206.00	40	12	ACT-90	ACT-90	0.5	0.4	0.5	-	0.5	0.8
2390 F 655	2 1/2	65	65	275.00	40	12	ACT-145	ACT-90	1.4	0.4	2.4	-	0.5	0.8
2390 F 805	3	80	80	498.00	40	12	ACT-145	ACT-145	1.4	1.2	2.4	-	2.4	3.8
2390 F 1005	4	100	100	875.00	40	12	ACT-190	ACT-145	2.2	1.2	4.3	-	2.4	3.8
2390 F 1505	6	150	150	2297.00	40	12	ACT-240	ACT-240	4	3.5	10	-	10	15.2



BILL OF MATERIAL

Sr.No	Description	Material	Sr.No	Description	Material	Sr.No	Description	Material
1	Body	Refer Note no. 1*	8	Bolts/stud	Refer Note no.3*	15	Lock Washer	SS AISI 304
2	Stem	SS AISI 316 (Hcr)	9	Spring Washer		16	Lock Nut	SS AISI 304
3	Stem Seal	RPTFE	10	Hex.Nut		17	Bracket	Refer Note no. 2*
4	Ball	Refer Note no. 1*	11	Gland Packing	PTFE	18	Adaptor	
5	Seat	PTFE	12	Bush Gland	SS AISI 304	19	Spring Washer	Refer Note no. 3*
6	Flat Ring	PTFE	13	Bushing	RPTFE	20	Hex.bolt	
7	End Piece	Refer Note no. 1*	14	Belleville Washer	SS AISI 301	21	Actuator	

This bill of material is for Stainless Steel body valves.

DIMENSIONS IN (MM) FOR FULL PORT VALVE WITH PNEUMATIC ACTUATOR

Catalogue Number	Valve Size		Actuator Type		A5	B	C		D1		E		Weight (Approx.) Kgs.	
	Inch	mm	D	S			D	S	D	S	D	S	D	S
2390F155	1/2	15	ACT-63	ACT-63	108	45	225	241	173	173	82	82	2.60	2.80
2390F205	3/4	20	ACT-63	ACT-63	118	49	248	278	173	173	82	82	3.00	3.20
2390F255	1	25	ACT-63	ACT-63	127	54	267	297	173	173	82	82	3.3	2.5
2390F405	1 1/2	40	ACT-63	ACT-63	165	64	309	339	173	173	82	82	3.3	2.5
2390F505	2	50	ACT-90	ACT-90	178	76	347	360	260	260	104	104	4.7	4.0
2390F655	2 1/2	65	ACT-145	ACT-90	190	89	428	463	421	260	168	104	13.4	11
2390F805	3	80	ACT-145	ACT-145	203	96	490	497	421	421	168	168	19.1	15.5
2390F1005	4	100	ACT-190	ACT-145	229	115	558	599	550	421	215	168	39.6	33
2390F1505	6	150	ACT-240	ACT-240	394	139.5	694	751	691	691	261	261	45.1	35.5

*Note: 1. Bodies are Investment casted in ASTM A216 WCB, ASTM A351-CF8 or CF8M.
 2. Brackets and Adapters are Investment casted in WCB. As an optional can be supplied with CF8 material.
 3. Bolts /studs, hex nuts material are supplied in ASTM-A -193-B7 & B8.

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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avcon[®]

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