

2-Way, Full Port, Ball Valve, 3-Piece Design With Pneumatic Rotary Actuator.

DATA SHEET
2370 F

AVCON is producing 3-piece Ball Valve with ISO 5211 mounting pad. The valves are provided with mounting bracket, couplers for fitting Pneumatic Rotary Actuators, either Double Acting or Spring Return Type. (For Pneumatic Actuator details, Please refer to AVCON leaflet ACT-Range). Flanged end valves having Face to face dimension as per DIN 3202-1-1984; also DN/EN 558-1-1995. But for Screwed End Ball Valves, face to face dimensions as per our this leaflet. Model 3400 Pneumatic Actuators having Namur mounting interface, are available with AVCON Namur 5-way, 2-Position, Solenoid Valves type 9484E, 9384E, 9485E, 9385E.

SPECIFICATIONS:

Size	: 15mm (1/2") to 100mm (4").
Body and End Piece	: Investment Casted Cast Steel ASTM A 216 WCB (DIN 1.0619 GS-C 25) or Stainless Steel ASTM A351 CF8 (DIN 1.4301) or CF8M (DIN1.4408) (GX6 Cr.Ni MO1810).
Ball	: Stainless Steel AISI 316. (Hcr - Hardchrome plated).
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-temperature	: As per BS 5351 Class 150 and rating Class 300.
Body pressure rating	: As per ANSI B 16.5 Class 150 and Class 300.
End connection	: Screwed to BSP/NPT. Flanged to ASME B16.5 Class 150 or 300 RF, Spigot weldable end to ISO 4200 and BS 4825 .
Leakage Class	: As per ANSI FCI-70-02 Teflon seating Class VI.
Characteristics	: On-Off.
Temperature	: Continuous 180°C. Intermittent 200°C.

ACTUATOR:

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



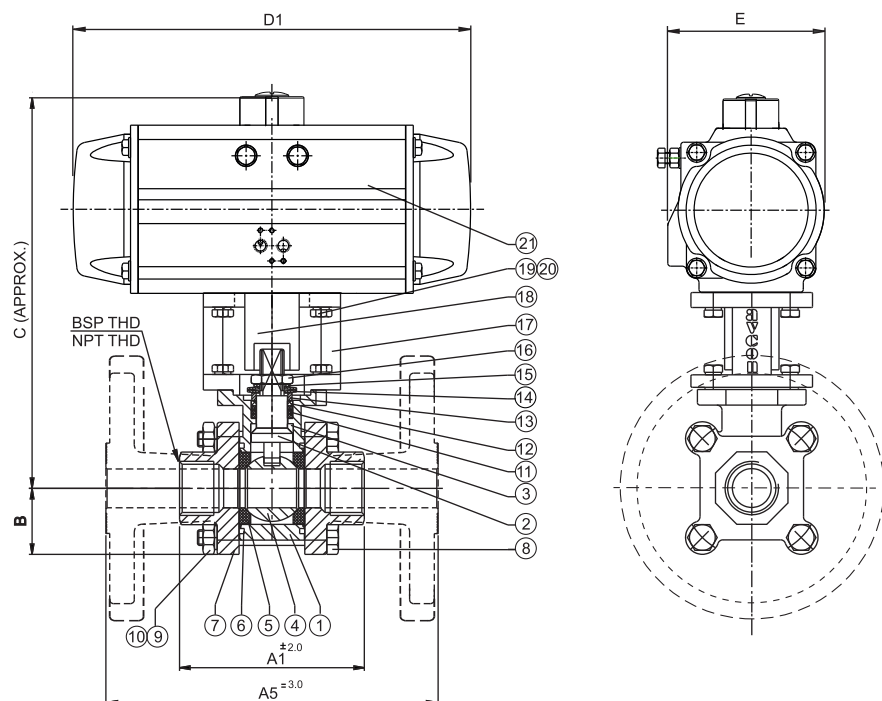
Air supply requirement	: 4 to 8 bar (Line fluid pressure dependent).
Manual Operation (optional)	: Provision for manual operation Hand -lever type for ACT-63- D/S actuator. Manual hand gear operator for ACT-90-D/S onward.
Accessories	: Local position indicator, rotary limit switch box, air lock relay, Solenoid Valve, Valve positioner, etc.
Sales Point	: Highly reliable, long life, simple in construction and maintenance free Ball Valve.
Application	: For air, water, oil, Steam gas, corrosive chemicals, combustion equipment, power stations, Hydro electric, chemicals and Petrochemicals industries.

SPECIFICATION TABLE FOR FULL PORT BALL VALVES.

Catalogue Number *	Size		Orifice Size (mm)	Flow Factor Kv	Body Test Pressure	Working Pressure	Actuator Type		Open Time (Approx.)		Air Consumption (litres)			
	Inch	mm					S	D	Secs.		S		D	
			mm	m3/h	bar	bar	Sp. Rt.	Double	S	D	Open	Close	Open	Close
2370 F 15X	1/2	15	15	10.40	40	12	ACT-63	ACT-63	0.3	0.3	0.30	-	0.2	0.3
2370 F 20X	3/4	20	20	27.52	40	12	ACT-63	ACT-63	0.3	0.3	0.30	-	0.2	0.3
2370 F 25X	1	25	25	48.00	40	12	ACT-63	ACT-63	0.3	0.3	1.10	-	0.2	0.3
2370 F 40X	1 1/2	40	40	103.00	40	12	ACT-90	ACT-90	0.3	0.3	1.10	-	0.2	0.3
2370 F 50X	2	50	50	206.00	40	12	ACT-145	ACT-90	0.5	0.4	2.00	-	0.5	0.8
2370 F 65X	2 1/2	65	65	275.00	40	12	ACT-145	ACT-145	6.00	1.4	1.2	-	2.4	3.8
2370 F 80X	3	80	80	498.00	30	12	ACT-190	ACT-145	6.00	1.4	1.2	-	2.4	3.8
2370 F 100X	4	100	100	875.00	30	12	ACT-240	ACT-240	9.00	1.2	1.2	-	2.4	3.8

Note * XX1 - Screwed ends XX5 - Flanged end XX6 - Spigot end

SECTIONAL VIEW



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	Refer Note no. 3*
5	Seat	PTFE	12	Bush Gland	SS AISI 304	19	Spring Washer	
6	Flat Ring	PTFE	13	Bushing	RPTFE	20	Hex. bolt	Refer Note no. 3*
7	End Piece	Refer Note no. 1*	14	Belleville Washer	SS AISI 301	21	Actuator	ACT-XXXD/S

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

Catalogue Number	Valve Size		A1	A5	B	C		D1		E		Screwed End Weight (Kgs) Cl. 150		Flange End / Spigot End Weight (Kgs)			
	Inch	mm				Max.	S	D	S	D	S	D	S	D	S	D	S
2370 F 15X	½	15	71	130	26	155	155	173	173	82	82	1.82	1.64	2.00	1.80	2.18	1.96
2370 F 20X	3/4	20	96	150	30	160	160	173	173	82	82	2.34	2.16	2.57	2.38	2.80	2.59
2370 F 25X	1	25	109	160	34	194	194	173	173	82	82	3.98	2.38	4.37	2.61	4.77	2.85
2370 F 40X	1 ½	40	129	200	44	220	220	260	260	104	104	5.30	4.85	5.83	5.33	6.36	5.82
2370 F 50X	2	50	142	230	70	261	261	421	260	168	104	9.20	8.80	10.78	9.68	11.76	10.56
2370 F 65X	2 ½	65	174	290	77	352	302	421	260	168	168	18.50	16.00	20.35	17.60	22.20	19.20
2370 F 80X	3	80	193	310	90	355	355	550	421	215	168	25.00	22.50	27.5	24.75	30.00	27.00
2370 F 100X	4	100	222	350	110	453	368	691	691	261	261	30.50	27.00	33.5	29.70	36.50	32.50

Note: Open Tolerance ± 3 all over. A 1 = Screwed, A5 = Flanged ends / Spigot ends. D = Double Acting, D1= Spring Return /Single Acting. Weight given screwed Valves only. 2370FXX1= Screwed End. 2370FXX5= Flange End. 2370Fxx6= Spigot End.

- * Note: 1. Bodies are Investment casted in ASTM A216 WCB, ASTM A351-CF8 or CF8M.
2. Brackets and Adaptors are Investment casted in WCB. As an optional can be supplied with CF8 material.
3. For 150 # rated valves - 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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