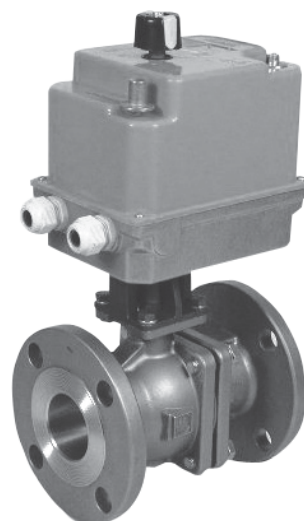


2-Way, Full Port, Ball Valve, 2-Piece Design with Electric Rotary Actuator.

DATA SHEET
2590 F with
'EA' Series

Motorised to open and closed No- Spring Return Action:

AVCON produces 2-piece Ball Valve available with ISO-5211 mounting pad. The valves are provided with mounting bracket, couplers for fitting Electric Rotary Actuators. The Valves are available with Electric Rotary Actuator. Motorised to Open and Motorised to Closed type (**No Fail Safe, Spring Return System available**). These Electric operated Ball valves are available with various options. For Electric Actuator details, please refer to AVCON leaflet (EA-21,EA-50/70). Flanged end valves are as per DIN 3202-1-1984 and EN 558-1-1995.



SPECIFICATIONS:

Size	: 15 mm (½") to 150 mm (6").
Body and End Piece	: Investment Casted Cast Steel ASTM A216 WCB (DIN 1.0619 GS-C25) or Stainless Steel ASTM A351 CF8 (DIN 1.4301) or CF8M (DIN 1.4408) (GX 6 Cr. Ni MO 1810).
Ball	: Stainless Steel AISI 316. (Hcr-Hardchrome plated).
Design	: As per API 607 Std. Fire Safe (but not tested).
Stem and Stem nut	: Stainless Steel AISI 316.
Ball seat	: Reinforced PTFE.
Stem seals	: Reinforced PTFE.
Body gasket	: PTFE
Antistatic device	: Stainless Steel SS1316.
Pressure-temperature rating	: As per BS 5351 Class 300
Body pressure rating	: ANSI B16.5 Class 300.
End connection	: Flanged to ANSI B16.5 Class 150.
Leakage Class	: As per ANSI B16.104 1976 Teflon seating Class VI.
Characteristics	: On-Off.
Temperature (max)	: Continuous 180°C. Intermittent 200°C

Note: If 24V DC voltage required, AVCON can supply but actuator models will be different than specified.

Manual Operation	: All Electric actuators are fitted with manual override as a standard.
Accessories	: All Motorised Ball Valves can be provided with accessories such as Extra Limit switch, Potentiometer, Remote Position Indicator, 4 to 20 mA interface unit, IP-56 Protection.
Sales Point	: Highly reliable, long life, Simple in construction and maintenance free ball valve.
Application	: For air, water, oil, gas, Steam, Corrosive chemicals, Combustion equipment, Power stations, Hydro Electric, Power Generation, Chemicals and Petrochemicals Industries, Water treatment plants, RO Plants. etc.

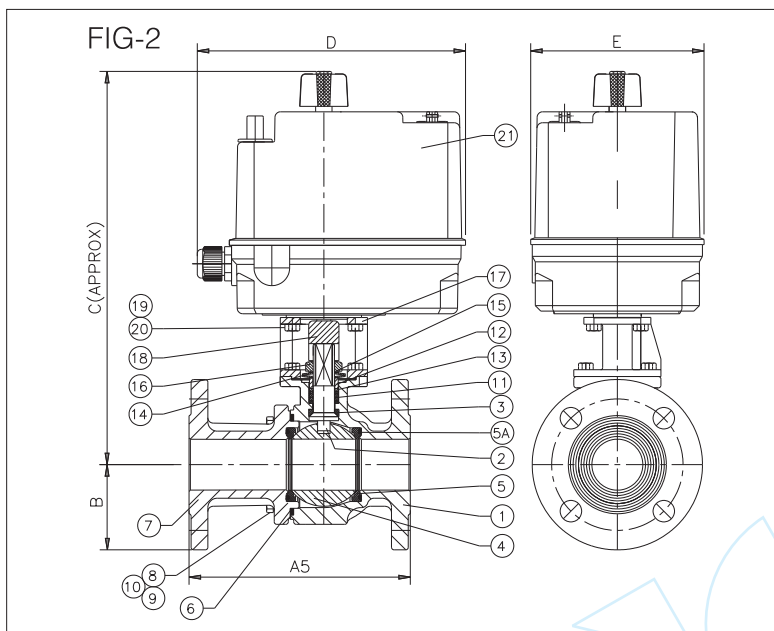
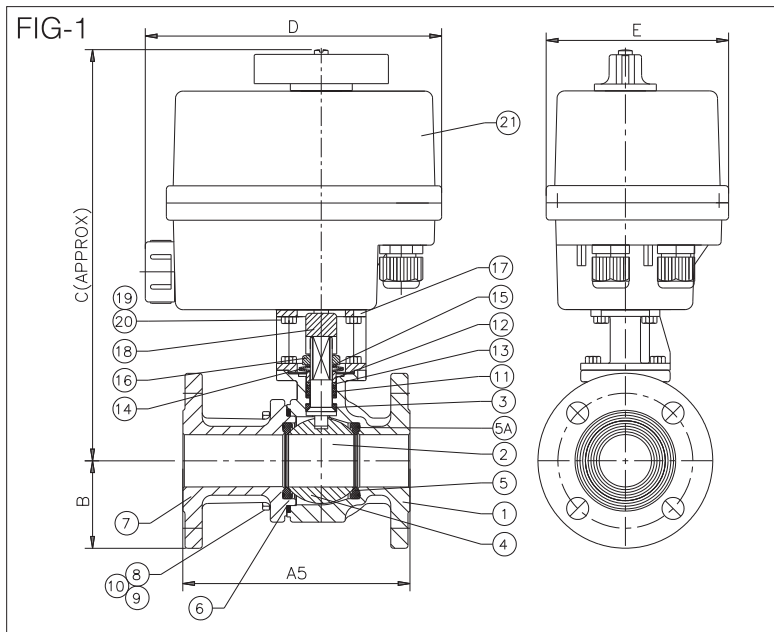
ACTUATOR:

For valve size and actuator refer table below:

Electric supply : 230, 110, 24 V 50 Hz AC.

SPECIFICATION TABLE FOR FULL PORT BALL VALVE:

Catalogue Number	Size		Orifice Size (mm)	Flow Factor Kv	Hydrostatic Test Pressure	Working Pressure Water	Actuator Model	Open/Close Time (Approx.)	Power Consumption
	Inch	mm	mm	m³/h	bar	bar	EA	Secs.	Watts
2590 F 155	½	15	15	10.40	40	12	EA-21	20	15
2590 F 205	¾	20	20	27.52	40	12	EA-21	20	15
2590 F 255	1	25	25	48.00	40	12	EA-21	20	15
2590 F 405	1 ½	40	40	103.00	40	12	EA-50	30	20
2590 F 505	2	50	50	206.00	40	12	EA-50/70	30	20



BILL OF MATERIAL

Item	Parts	Materials
1	Body	ReferNote no. 1*
2	Stem	S.S.AISI.316 (Hcr)
3	Stem Seal	RPTFE
4	Ball	Refer Note no. 1*
5	Seat	PTFE
5A	'O' Ring	Nitrile
6	Flatring	PTFE
7	End Piece	Refer Note no. 1*
8	Bolts /Studs	Refer Note no. 3*
9	Spring Washer	
10	Hex. NUT	
11	Gland Packing	PTFE
12	Bush Gland	S.S.AISI 304
13	Bushing	RPTFE
14	Belleville Washer	S.S.AISI 301
15	Lock washer	S.S.AISI 304
16	Lock Nut	S.S.AISI 304
17	Bracket	Refer Note no. 2*
18	Adapator	Refer Note no. 3*
19	Spring Washer	
20	Hex. Bolt	
21	Actuator	EA-21/EA-50/70

SPECIFICATION TABLE FOR FULL PORT BALL VALVE

Catalogue Number	Size		Constr. Ref.	A5	B	C	D	E	Weight (Kg)
	Inch	mm							
2590 F 155	1/2	15	Fig - 1	108	45	205	175	106	4.200
2590 F 205	3/4	20	Fig - 1	118	49	210	175	106	4.600
2590 F 255	1	25	Fig - 1	127	54	220	175	106	5.500
2590 F 405	1 1/2	40	Fig - 2	165	64	290	200	130	9.800
2590 F 505	2	50	Fig - 2	178	76	300	200	130	10.850

• OPEN TOLERANCE ± 3 ALL OVER

*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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