

'AVCON' 2-Way Tight Shut Off Butterfly Valves Sleeved Design with Quarter Turn Pneumatic Actuators.

(Wafer Type, Centric Design, with Elastomer Liner)

DATA SHEET
BFV-4322B

SPECIFICATIONS

Design as per API 609.

Valve Sizes	: 40mm (1 1/2") to 300mm (12").
Face to Face	: As per API 609-A.
Testing & Inspection	: In accordance to EN-12266-1, API 598.
Pressure Temp. Rating	: As per ASTM A 16.34.
Pressure Rating	: Body-ANSI, Class 150, holding between flanges.
Bodies	: CI -ASTM 126-04 Class B, SGI-ASTM-A-536-65-45-12, CS- ASTM A216 WCB(DIN1.0619) (GS-C 25),SS-ASTM A351CF8M (DIN 1.4408)(GX6 Cr.Ni MO 1810), SS-ASTM A351CF8 (DIN 1.4301).
Shaft Disc	: ASTM A511 Gr.TP- 410/420. SGI-ASTM-A-536-65-45-12, CS- ASTM A216 WCB(DIN1.0619) (GS-C 25), SS- ASTM A351CF8M or CF8.
Liner & Temperature	: EPDM-ISO 1691, (-)20°C to 120°C BN-ISO 1691(-)5°C to 80°C.
Shaft Packing	: PTFE.
End Connection	: Suitable for holding between the flanges of ANSI Cl.150, ISO 7005-1, BS 5811, DIN 2533 PN16.
Leakage	: Tight shut-off, Class V on Water, Class VI on Air.
Characteristic Velocity (Max.)	: On-Off and Control. Size: 40 mm to 200 mm:4m/sec. for liquid and 35m/sec. for gases. Size: 250 & 300 mm 3m/sec. for 250 & 300 mm 30m/sec.
Pneumatic Supply Pres.	: For Double Acting or Spring Return Actuator signal pressure 4.0 to 8.5 bar.
Manual Operation	: Can be provided as additional feature.
Accessories	: Air Lock Relay, Valve Positioner (P to P),Valve Positioner (E to P) Positioner Indicator, Rotary Limit Switches, Proximity Switches Solenoid Valves, etc.



ACTUATOR

: Refer to Specification table, For further details of Actuators, refer to Actuator leaflet.

Sales points

: Highly reliable, long life, simple in construction and maintenance free valve. Investment casted /machine moulded Body and Disc, Machined on In-House CNC Machining facility, Ensures easy replacement of components. Field Proven, highly reliable Valve and Actuator combination.

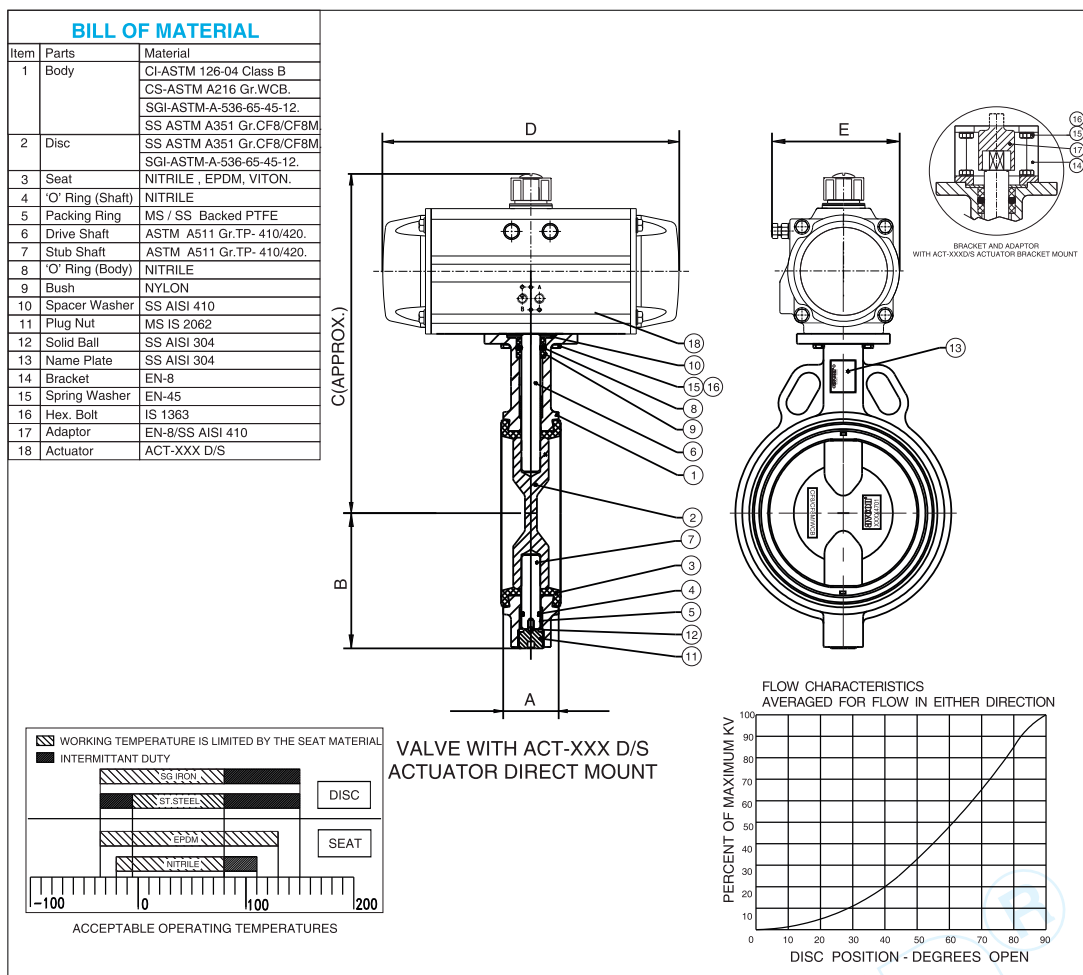
Application

: For Air, Water, Oil, Gas, some Chemicals, Low pressure steam. Valve can be used on Combustion Equipments, Power Stations, Chemicals, Petro-chemicals, Pharmaceuticals and Textile Process Industries, Water Treatment etc.

SPECIFICATION TABLE

Catalogue Number	Size		Flow Factor Kv.	ACT Actuator Model				Opening Time (Sec.)				Air consumption (Litres)					
				Working Pressure				Working Pressure				Working Pressure					
				6 bar		12 bar		6 bar		12 bar		6 bar		12 bar		12 bar	
				Double	Single	Double	Single	Double	Single	Double	Single	To Open	To Close	To Open	To Close	To Open	To Close
4322B40 x ACT-50-D ACT-63-S	1 1/2	40	49	ACT-50-D	ACT-63-S	ACT-50-D	ACT-63-S	0.2	0.3	0.2	0.3	0.1	0.2	0.2	0.1	0.2	0.2
4322B50 x ACT-50-D ACT-63-S	2	50	91	ACT-50-D	ACT-63-S	ACT-50-D	ACT-63-S	0.2	0.3	0.2	0.3	0.1	0.2	0.2	0.1	0.2	0.2
4322B65 x ACT-63-D ACT-90-S	2 1/2	65	206	ACT-63-D	ACT-90-S	ACT-63-D	ACT-90-S	0.3	0.5	0.3	0.5	0.2	0.5	0.3	0.2	0.5	0.3
4322B80 x ACT-75-D ACT-90-S	3	80	436	ACT-75-D	ACT-90-S	ACT-75-D	ACT-90-S	0.3	0.5	0.3	0.5	0.3	0.5	0.5	0.3	0.5	0.5
4322B100 x ACT-75-D ACT-100-S	4	100	660	ACT-75-D	ACT-100-S	ACT-90-D	ACT-115-S	0.3	0.6	0.4	0.8	0.5	1.2	0.8	0.3	1.2	0.8
4322B125 x ACT-90-D ACT-115-S	5	125	1300	ACT-90-D	ACT-115-S	ACT-90-D	ACT-125-S	0.4	0.8	0.4	1.1	0.5	1.2	0.8	0.5	1.5	0.8
4322B150 x ACT-100-D ACT-125-S	6	150	2100	ACT-100-D	ACT-125-S	ACT-100-D	ACT-125-S	0.5	1.1	0.5	1.1	0.7	1.5	1.1	0.7	1.5	1.1
4322B200 x ACT-115-D ACT-145-S	8	200	4100	ACT-115-D	ACT-145-S	ACT-115-D	ACT-145-S	0.7	1.4	0.7	1.4	1.2	2.4	1.8	1.2	2.4	1.8
4322B250 x ACT-125-D ACT-190-S	10	250	6090	ACT-125-D	ACT-190-S	ACT-145-D	ACT-190-S	0.9	2.2	1.2	2.2	1.5	4.3	3.8	2.4	4.3	3.8
4322B300 x ACT-145-D ACT-190-S	12	300	9570	ACT-145-D	ACT-190-S	ACT-160-D	ACT-210-S	1.2	2.2	1.5	3.2	2.4	4.3	9.5	3.1	5.9	9.5

Note: (1) Valve and actuator table is calculated fitting AVCON Namur based solenoid valve, type 9484E06 or 9384E06. Valve for using any other models from other manufacturers, please use 6 bar pneumatic pressure. (2) For regulating duty disc can only be positioned between 20° to 70° opening or controlling. (3) Safe body working pressure across all the sizes will be 15 bar. (4) No air is required to close the single acting Actuator.



DIMENSIONS IN MM.

TABLE FOR WORKING PRESSURE 6 BAR.	Catalogue Number	Size		A	B	C		D		E		Wt. Kgs.(Approx.)	
		Inch	mm			Double	Single	Double	Single	Double	Single	Double	Single
	4322B40 x ACT-50-D x ACT-63-S	1 1/2	40	33	65.5	210	210	157	173	70	82	2.4	3.2
	4322B50 x ACT-50-D x ACT-63-S	2	50	43	80	220	220	157	173	70	82	3.1	3.9
	4322B65 x ACT-63-D x ACT-90S	2 1/2	65	46	87.5	235	235	173	260	82	104	3.9	4.6
	4322B80 x ACT-75-D x ACT-90-S	3	80	46	95	260	260	221	260	97	104	6.4	6.8
	4322B100 x ACT-75-D x ACT-100-S	4	100	52	115	280	335	221	290	97	122	8.3	16.2
	4322B125 x ACT-90-D x ACT-115-S	5	125	56	120	355	355	260	312	104	132	17.9	19.1
	4322B150 x ACT-100-D x ACT-125-S	6	150	56	144	370	370	290	368	122	149	19.7	21.0
	4322B200 x ACT-115-D x ACT-145-S	8	200	60	204.5	500	500	312	421	132	168	40.2	44.7
	4322B250 x ACT-125-D x ACT-190-S	10	250	68	212	515	515	368	550	149	215	43.0	48.0
	4322B300 x ACT-145-D x ACT-190-S	12	300	78	248	245	545	421	550	168	215	52.0	56.5

• OPEN TOLERANCE ± 3 ALL OVER

DIMENSIONS IN MM.

TABLE FOR WORKING PRESSURE 12 BAR.	Catalogue Number	Size		A	B	C		D		E		Wt. Kgs.(Approx.)	
		Inch	mm			Double	Single	Double	Single	Double	Single	Double	Single
	4322B40 x ACT-50-D x ACT-63-S	1 1/2	40	33	65.5	210	210	157	173	70	82	2.4	3.2
	4322B50 x ACT-50-D x ACT-63-S	2	50	43	80	220	220	157	173	70	82	3.1	3.9
	4322B65 x ACT-63-D x ACT-90S	2 1/2	65	46	87.5	235	235	173	260	82	104	3.9	4.6
	4322B80 x ACT-75-D x ACT-90-S	3	80	46	95	260	260	221	260	97	104	6.4	6.8
	4322B100 x ACT-90-D x ACT-115-S	4	100	52	115	280	335	260	312	104	132	8.3	16.2
	4322B125 x ACT-90-D x ACT-125-S	5	125	56	120	355	355	260	368	104	149	17.9	19.1
	4322B150 x ACT-100-D x ACT-125-S	6	150	56	144	370	370	290	368	122	149	19.7	21.0
	4322B200 x ACT-115-D x ACT-145-S	8	200	60	204.5	500	500	312	421	132	168	40.2	44.7
	4322B250 x ACT-145-D x ACT-190-S	10	250	68	212	515	515	421	550	168	215	43.0	48.0
	4322B300 x ACT-160-D x ACT-210-S	12	300	78	248	245	545	450	620	185	236	52.0	56.5

• OPEN TOLERANCE ± 3 ALL OVER

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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