

# PNEUMATIC ACTUATOR FLANGE END THREE PIECE BALL VALVE

## Design Feature:

- 3 Pc Body Construction
- Investment Cast Components
- Full Port
- Blow Out Proof Stem
- Actuator Mounting Pad available on request
- Flanges Ends

## Conformity to Standards & Codes :

Design & Face to Face Dimensions :

BS 5351 / ISO 17292 / ASME B 16.10

Valve Testing : API 598

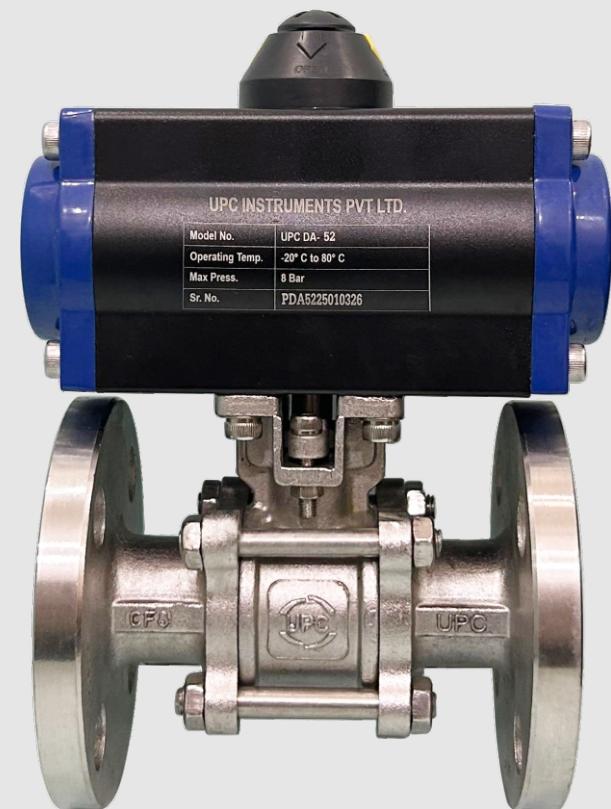
## Flange Ends Conformity:

ASME B16.5 CL 150 #

All valves can be direct mounted with Pneumatic actuators and accessories for complete on- off automation or modulating control. Our valves are meticulously crafted in an ISO 9001 certified facility, utilizing a rigorous quality management system.

## Standard Design Features:-

- Double pistons driven, rack and gear transmission with impact structure, symmetry assembling position, quick action and the rotation direction of output shaft can be changed simply by piston reversion. Angular travel output:  $0^\circ \sim 90^\circ$
- DA means double action and SR means single action i.e. Spring returning type.
- The Cylinder body adopts extruded aluminium alloy cylinder body with anode oxidation surface treatment which largely improves the hardness and corrosion resistance. The internal surface of the cylinder has gone through fine honing treatment which brings low friction coefficient and long service life.
- Output Shaft: high quality bearing with good reliability and leak tightness with low friction coefficient is adopted which has a wide temperature application range and long service life.
- Two independent screws for travel adjustment are on front face of the cylinder body.  $\pm 5^\circ$  precise adjustment is available when the stroke is on  $0^\circ$  and  $90^\circ$  position which shall be in consistent with the open and close position of the valve.



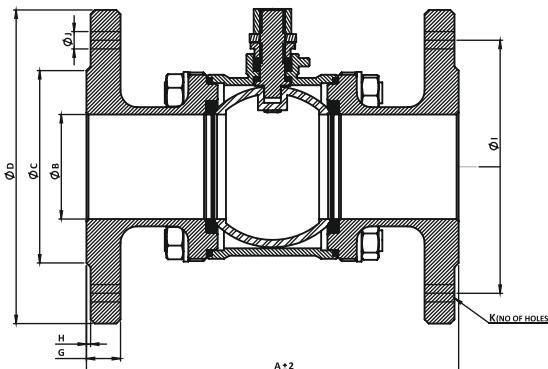
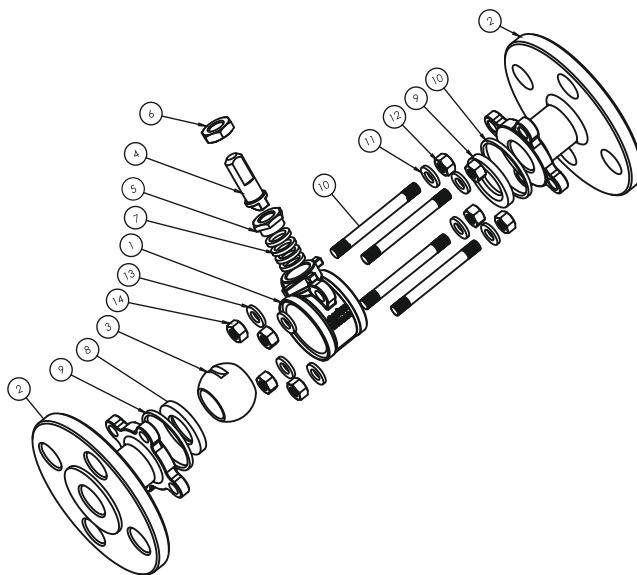
## Size Range:

15mm (1/2") to 200mm (8")

**UPC INSTRUMENTS PVT.LTD.**

AN ISO 9001:2015, 14001-2015 CE & TÜV SÜD CERTIFIED COMPANY

# PNEUMATIC ACTUATOR THREE PIECE FLANGE END BALL VALVE



## PART LIST

S.NO.	PART NAME	MATERIAL	SPECIFICATIONS	QTY.
1.	BODY	STAINLESS STEEL	ASTM A351 GR. CF8/CF8M/ ASTM A216 GR. WCB	1
2.	FLANGE	STAINLESS STEEL	ASTM A351 GR. CF8/CF8M/ ASTM A216 GR. WCB	2
3.	BALL	STAINLESS STEEL	ASTM A351 GR. CF8/CF8M/ ASTM A276 GR. 304/316	1
4.	STEM	STAINLESS STEEL	ASTM A276 GR. 304/316	1
5.	GLAND NUT	STAINLESS STEEL	AISI 304	1
6.	LOCK NUT	STAINLESS STEEL	AISI 304	1
7.	GLAND PACKING	PTFE	BS 6564	4
8.	SEAT RING	PTFE	BS 6564	2
9.	BODY SEAL	PTFE	BS 6564	2
10.	STUD	STAINLESS STEEL	AISI 304	4
11.	WASHER	STAINLESS STEEL	AISI 304	8
12.	NUT	STAINLESS STEEL	AISI 304	8

\*Lockable handles are available on request.

\*Stem seals, body seals and seat ring, other than PTFE are available on request.

## Pneumatic Actuator Torque Chart (DA)

MODEL	3.0	4.0	5.0	6.0	7.0	8.0
	TORQUE (N.M.)					
UPCD52	12	16	20	24	28.0	32
UPCD63	21.7	28.9	36.1	43.4	50.6	54.6
UPCD75	35	46.6	58.3	69.9	81.6	93.2
UPCD83	42.8	57	71.3	85.5	99.8	114
UPCD92	67.6	90.1	112.3	135.2	157.7	180.2
UPCD105	97.7	130.3	162.9	195.5	228.0	260.6
UPCD125	173.3	231	288.8	346.5	404.3	462
UPCD140	260.7	347.6	434.5	521.4	608.3	695.2
UPCD160	397.2	529.6	662	794.4	926.8	1059.2
UPCD190	640.2	853.6	1067	1280.4	1493.8	1707.2
UPCD210	798	1064	1330	1596	1682.0	2128

## DIMENSIONS

SIZE	A	B	C	D	G	H	I	J	K
15	108	14	35	90	10.0	2	60.3	16	4
20	117	19	43	100	10.9	2	69.9	16	4
25	127	24	51	110	11.6	2	79.4	16	4
32	140	31	63.5	115	13.2	2	88.9	16	4
40	165	38	73	125	14.7	2	98.4	16	4
50	178	50	92	150	16.3	2	120.7	19	4
65	190	63	105	180	17.9	2	139.7	19	4
80	203	76	127	190	19.5	2	152.4	19	4
100	229	100	157	230	24.3	2	190.5	19	8

\*All dimensions are in mm unless and otherwise specified.

## TEST PRESSURE:

Hydraulic Body Test	29.0 Kg/Cm <sup>2</sup>
Hydraulic Seat Test	21.5 Kg/Cm <sup>2</sup>
Pneumatic Seat Test (Optional)	4-7 Kg/Cm <sup>2</sup>

## WARRANTY

All valves are guaranteed against any manufacturing defects for a period of 12 months from date of supply, provided the valves have not been misused, damaged or installed for services they are not recommended. The company shall be liable to furnish part / parts thereof or full valve as the company may deem fit.

## Applications

- Chemical & Solvent Industries
- Process Industries
- Petrochemical Industries
- Oil Refineries
- Food and pharmaceuticals

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