

BALL VALVE (THREE PIECE DESIGN)

INTRODUCTION:

FLOCON INDUSTRIES have an extensive experience in manufacturing of sanitary BALL VALVES. Sanitary ball valve designed with bore diameter same as of pipe diameter.



WORKING PRINCIPLE:

The Flocon Industries sanitary ball valve has a precision-made ball with full bore positioned inside the valve body and two PTFE valve seats and one retainer. A 90° rotation of the valve stem enables opening or closing the valve. A specially selected PTFE-grade material secures long lifetime. Manually-operated handle enables valve operation. Valve retainer enable assembly and disassembly for easy inspection cleaning and maintenance.

STANDARD DESIGN:

The Flocon Industries sanitary ball valve consists of a valve body and two body flanges, a ball fitting into sealing seats, and a stem connecting to a manual handle. The valve comes with standard Triclover ends, SMS union ends and Butt weld ends. Standard design enables cleaning and product recovery using pigging systems. Flocon Three Piece Design ball valve is designed for use in sanitary applications with OD Standards.

DESIGN CODE:

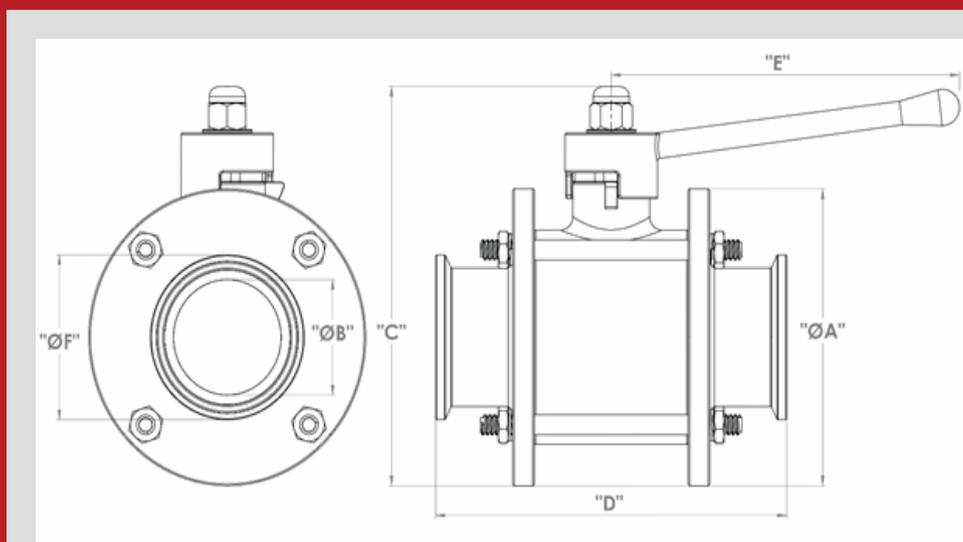
Confirming to ASME
B16 / ASME BPE &
Equiv Standards.

BENEFITS:

- Reliable full-flow performance.
- Compact hygienic design
- Versatile operation manual control
- Durable and water hammer-safe
- Easy to clean

APPLICATION:

The Flocon Industries sanitary ball valve is ideal for use as a hygienic product valve across the dairy, food, beverage, chemical, Pharmaceutical and many other allied industries.



TECHNICAL SPECIFICATION:

Size	1/2" to 4" OD
Max. Operating Pressure	14 Bar
Max. Operating Temperature	140°C
Material of Construction	SS304, SS316L
Seat	Teflon
Surface Finish Internally	Ra <0.4 µm
External Finish Internally	Ra <0.8 µm

THREE PIECE BALL VALVE SIZE CHART

3 PIECE BALL VALVE TC END						
Size	A	B	C	D	E	F
±2mm	RETAINER OD	INNER DIAMETER	OVERALL HEIGHT	OVERALL LENGTH	HANDLE LENGTH	TC OD
1/2"	60	9.5	80	93	120	25
3/4"	65	16	100	100	150	25/50.5
1"	72	22.1	105	105	150	50.5
1.5"	90	35	128	118	150	50.5
2"	110	48	150	130	190	64
2.5"	135	60	175	152	190	77.5
3"	156	72	189	178	250	91
4"	208	98	262	206	300	119

3 PIECE BALL VALVE BUTT WELD END

Size	A	B	C	D	E	F
±2mm	RETAINER OD	INNER DIAMETER	OVERALL HEIGHT	OVERALL LENGTH	HANDLE LENGTH	PIPE OD
1/2"	60	9.5	80	93	120	12.7
3/4"	65	16	100	100	150	19
1"	72	22.1	105	105	150	25.4
1.5"	90	35	128	118	150	38.1
2"	110	48	150	130	190	50.8
2.5"	135	60	175	152	190	63.5
3"	156	72	189	178	250	76.2
4"	208	98	262	206	300	101.6

3 PIECE BALL VALVE SMS NUT END

Size	A	B	C	D	E	F
±2mm	RETAINER OD	INNER DIAMETER	OVERALL HEIGHT	OVERALL LENGTH	HANDLE LENGTH	SMS MALE PART
1/2"	NA	NA	NA	NA	NA	NA
3/4"	NA	NA	NA	NA	NA	NA
1"	72	22.1	105	105	150	40
1.5"	90	35	128	118	150	60
2"	110	48	150	130	190	70
2.5"	135	60	175	152	190	85
3"	156	72	189	178	250	98
4"	208	98	262	206	300	132

PART LIST

Item No.	Part Name	MOC	Qty
1	Body	SS316L/SS304	1 no.
2	Ball	SS316L/SS304	1 no.
3	Ball Seat	Teflon	2 nos.
4	Retainer	SS316L/SS304	2 nos.
5	Handle	SS304	1 no.
6	Gland Nut	SS304	1 no.
7	Spindle	SS316L/SS304	1 no.
8	Steel Washer	SS304	1 no.
9	Stud	SS304	4 nos
10	Body Seal	Teflon	2 nos.
11	Dome Nut	SS304	1 no.
12	Bottom Spindle Packing	Teflon	1 no.
13	Top Spindle Packing	Teflon	1 no.
14	Spring Washer	SS304	8 nos.
15	Hex Nut	SS304	8 nos.
16	O-Ring	EPDM	1 no.

