SS 3PC BALL VALVE FB

3-Piece Full Bore Threaded Ball Valve · Stainless Steel CF8M (316) · Lever Operated

BRAND: SW FLOW CONTROLS | SKU: P-0036 | SIZE 1/2" TO 4" | 1000 PSI / PN63



FIG. 1 | SS 3PC BALL VALVE FB, VINYL COATED LEVER HANDLE

PRODUCT OVERVIEW

The SW Flow Controls SS 3PC Ball Valve is a quarter-turn, three-piece full bore valve with investment cast CF8M (316) stainless steel body and end caps. The bolted three-piece construction allows the centre section to be removed for servicing and seat replacement without disturbing the pipeline connections.

A floating ball in PTFE seats gives tight shut-off, and the blow-out proof stem and quarter-turn lever give safe, repeatable operation. Female threaded ends suit oil and gas, chemical, petrochemical and fluid processing lines, as well as commercial and industrial building services.

Valve type	**3-piece ball valve, full port**
Operation	**Manual, 90° quarter-turn lever**
Body material	**CF8M (SS 316), investment cast**
End connection	**Female NPT threaded**
Pressure rating	**1000 psi / PN63**
Size range	**1/2" to 4" (DN15 to DN100)**

TECHNICAL SPECIFICATION

Body design	**3-piece, bolted, swing-out centre**	Working pressure	**1000 psi / PN63**
Port	**Full bore**	Working temperature	**-20°C to +180°C**
End connection	**Female NPT (SWBM listing)**	Testing	**API 598, EN 12266-1**
Manufacturer threads	**DIN 2999 / 259, ISO 228-1, ISO 7-1**	Pressure equipment	**PED 2014/68/EU**
Stem	**Blow-out proof**	Casting approval	**AD2000-W0**
Seats	**PTFE or RPTFE**	Locking handle	**Optional**

BILL OF MATERIALS

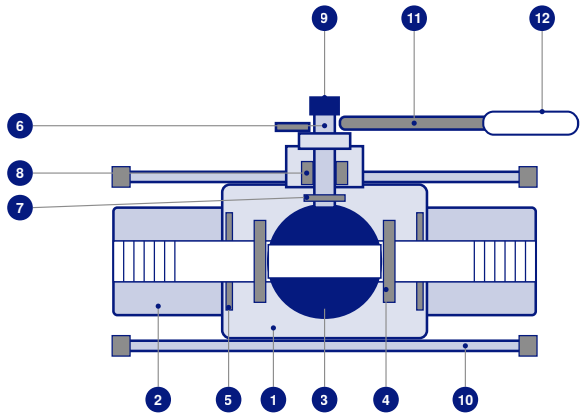


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL
1	Body	CF8M (SS 316)
2	End cap (2 nos.)	CF8M (SS 316)
3	Ball	SS 316
4	Ball seat (2 nos.)	PTFE / RPTFE
5	End seal (2 nos.)	PTFE
6	Stem (blow-out proof)	SS 316
7	Thrust washer	PTFE
8	Stem packing	PTFE
9	Gland nut, stem nut, spring washer	SS 304
10	Body bolts, nuts, washers (4 to 6 sets)	SS 304
11	Handle and lock device	SS 304
12	Handle cover	Plastic

Materials shown for the CF8M (316) build. The manufacturer also offers WCB and CF8 bodies. RPTFE seats for higher temperature duty on request.

DIMENSIONS

SIZE	DN	BORE D (MM)	L (MM)	H (MM)	W (MM)
1/2"	15	15	63.3	56.5	108.5
3/4"	20	20	70.6	62.2	108.5
1"	25	25	82	70.5	130.5
1.1/4"	32	32	97	78.5	130.5
1.1/2"	40	38	108.6	92	162.5
2"	50	50	124.5	101	162.5
2.1/2"	65	64	162	121.5	230
3"	80	76	175	132	230
4"	100	100	216	175	320

D = bore, L = face to face length, H = centreline to top of handle, W = handle length. Dimensions are taken from manufacturer data, are nominal and are given for guidance only. Weights are confirmed on request. Size 1/4" and 3/8" can be offered against enquiry.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	P-0036
Size	1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"
Thread	Female NPT
Material	CF8M (SS 316) body and end caps
Seat	PTFE standard. RPTFE on request
Order example	**P-0036 / 2" / NPT / PTFE / LEVER**

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.

PRESSURE AND TEMPERATURE

Rated pressure	**1000 psi / PN63**
Working temperature	**-20°C to +180°C**
PTFE seat, approx.	**Full rating to 65°C, 14 bar at 150°C**
RPTFE seat, approx.	**Full rating to 110°C, 28 bar at 150°C**

Seat derating values are read from the manufacturer pressure-temperature chart and are indicative. Confirm duty with SWBM before use on steam or at elevated temperature.

TYPICAL APPLICATIONS

- Oil and gas process and utility lines
- Chemical and petrochemical plant
- Fluid processing and transfer systems
- Water and wastewater treatment
- Commercial and industrial building services
- Lines that need in-line seat maintenance

COMPLIANCE AND QUALITY

- Inspection testing to API 598 and EN 12266-1
- Pressure Equipment Directive PED 2014/68/EU
- Castings approved to AD2000-W0
- Investment cast body and end caps
- Blow-out proof stem, full port design
- Material test certificates available on request

INSTALLATION AND OPERATION

- Flush the line thoroughly before installation to clear debris, scale and thread swarf
- Install with the valve in the fully open position
- Apply PTFE tape or an approved sealant to the male pipe thread only
- Tighten on the end cap hexagon flats, never on the handle or stem
- For seat replacement, remove the body bolts and swing out the centre section
- The valve is open when the lever is in line with the pipe, and closed at 90°

COMPANY

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