

High-Pressure Stainless Steel Ball Valve

This high-pressure ball valve features a 316 cold-work stainless steel body. The one-piece, trunnion mounted stem design reduces the effects of side loading.



ADDITIONAL IMAGES



Overview

High-Performance Fluid Control

This high-pressure stainless steel ball valve is engineered for demanding industrial applications requiring reliable fluid control and zero leakage. Constructed from 316 cold-work stainless steel, it features a trunnion-mounted stem design to reduce side loading and extend service life. With pressure ratings up to 20,000 psig and versatile mounting options, it provides a robust solution for high-tensile hydraulic and pneumatic systems.

Core Performance

Working Pressure

15000 psig

Low Pressure Rating

20000 psig

Medium Pressure Rating

Operating Temperature

-40°F to 250°F (-40°C to 120°C) with standard Buna N seals

Material Specifications

Body Material	316 Cold-work Stainless Steel
Seat Material	PEEK soft seat for zero leakage
Available Seals	Buna N, Custom Options Available

Design & Construction

Body Patterns

- 2-way Straight
- 3-way 180°

Mounting Features

- Integral through-holes for bracket mounting
- Panel mounting available

Stem Design

One-piece, trunnion mounted

Technical Parameters

Technical Parameters				Ordering Code		
Work Pressure	Size	Ports	Orifice mm(in.)	2 Way Straight	3 Way 180°	2 Way, With Actuator
Low Pressure 15000 psig	1/4"	FN 4	6.35(0.25)	BV15FN4A	BV15FN4B	BV15FN4 <input type="checkbox"/>
	3/8"	FN 6	9.53(0.38)	BV15FN6A	BV15FN6B	BV15FN4 <input type="checkbox"/>
Medium Pressure 20000 psig	1/4"	MF 4	6.35(0.25)	BV20MF4A	BV20MF4B	BV20MF4 <input type="checkbox"/>
	3/8"	MF 6	9.53(0.38)	BV20MF6A	BV20MF6B	BV20MF6 <input type="checkbox"/>
	9/16"	MF 9	12.70(0.50)	BV20MF9A	BV20MF9B	BV20MF9 <input type="checkbox"/>

Detailed technical specifications including port sizes, orifice diameters, and ordering codes for 15,000 and 20,000 psig models.

Configuration Details

Pressure Level	Size	Ports	Orifice (mm)
15000 psig	1/4"	FN 4	6.35
15000 psig	3/8"	FN 6	9.53
20000 psig	1/4"	MF 4	6.35
20000 psig	3/8"	MF 6	9.53
20000 psig	9/16"	MF 9	12.7

Actuation

Actuation Options

Yes

Actuator Type

Pneumatic actuator options available for 2-way valves