

CARTEN®

High Performance Valves & Flow Solutions

BVM Series

1/4 Turn Stainless Steel 2-way Ball Valves



For High Purity Non Process Gas Applications

1/4 TURN STAINLESS STEEL 2-WAY BALL VALVE SERIES

Product Applications



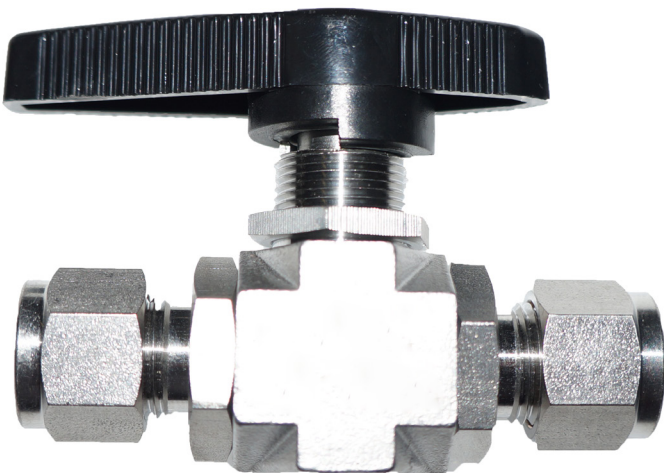
The Carten BVM series stainless steel ball valves are intended for non-process gas applications. The BVM series are assembled and pressure tested in a class 10 cleanroom and double bagged after testing. Applications include:

- Utility Nitrogen (UN2) systems
- Clean Dry Air (CDA) systems
- House Nitrogen (HN2) systems
- Instrument Air (IA) systems
- Instrumentation Services
- Laboratory Systems
- Utilities and Facilities

Product Features

- 316 Body and 316L Barstock Flanges Design for High Integrity
- Purged and Final packaged in Class 10 Cleanroom
- Available 1/4" to 1" line sizes
- Available with twin ferrule compression connections (C/LOK)

Material of Construction



Item	Material
HANDWHEEL	Nylon
BODY	St. St. 316
C/LOK CONNECTION	St. St. 316
BALL	St. St. 316
STEM	St. St. 316
STEM PACKING	PTFE



BVM Series Technical Specifications

Maximum Operating Pressure	BVM Series	0-250 psig (0-17.2 bar) See below for pneumatic actuation pressures
Maximum Operating Temperature	PTFE Seat	-65°F (-54°C) to 302°F (150°C)
Inch Model		Cv
Description	Body Size	
BVM 250	1/4"	0.7
BVM 375	3/8"	2.0
BVM 500	1/2"	4.2
BVM 750	3/4"	4.2
BVM 1000	1"	9.2
Helium Leak Test	Across the Seat Outboard Pressure Test	<1 x 10 ⁻⁶ scc/s He (1 x 10 ⁻⁷ Pa-M ³ /s) <1 x 10 ⁻⁶ scc/s He (1 x 10 ⁻⁷ Pa-M ³ /s)
Cleanliness and Packaging	Assembled and tested in Class 10 Cleanroom. Purged and Final Packaged in Class 10 Cleanroom using Double-bag Vacuum Packing.	
Standard Finish	30Ra (0.80 µm) cleaned for oxygen service (CFOS)	

Standard BVM Valves and Descriptions

Model	Description	Cv Value
BVM250-1/4" C/LOK	6.35mm (1/4") manually operated ball valve with (1/4") twin ferrule compression connections inlet and outlet	0.7
BVM375- 3/8" C/LOK	9.52mm (3/8") manually operated ball valve with (3/8") twin ferrule compression connections inlet and outlet	2.0
BVM500- 1/2" C/LOK	12.7mm (1/2") manually operated ball valve with (1/2") twin ferrule compression connections inlet and outlet	4.2
BVM750- 3/4" C/LOK	19.05mm (3/4") manually operated ball valve with (3/4") twin ferrule compression connections inlet and outlet	4.2
BVM1000- 1" C/LOK	25.4mm (1") manually operated ball valve with (1") twin ferrule compression connections inlet and outlet	9.2

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