

3-Piece Ball Valve for Type 316 Stainless Steel

Victaulic® Vic-Press™ Series P569



1.0 PRODUCT DESCRIPTION

Available Sizes

- ½ – 2"/DN15 – DN50

Pressure Class

- Up to 400 psi/2758 kPa

Application

- Joins ASTM A312 Schedule 10S Stainless Steel Pipe

Pipe Materials

- Stainless Steel Type 316

Codes and Requirements

- Support hanger spacing corresponds to ASME B31.1 Power Piping Code and ASME B31.9 Building Services Piping Code
- Meets ASME requirements for ANSI Class 150 systems for water, oil, gases and general chemical services
- Meets MSS SP-110 requirements with the exception of the end connection
- Pressure tested in accordance with API 598

NOTE

- To maintain integrity of lubrication, components should remain in factory sealed bag until ready for use.

2.0 CERTIFICATION/LISTINGS



NOTES

- Download [Publication 10.01](#) for Fire Protection Certifications/Listings Reference Guide.
- Product manufactured by Victaulic and/or certified suppliers in accordance with ISO-9001.

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.



3.0 SPECIFICATIONS – MATERIAL

Body: Stainless Steel, CF8M, ASTM A351

Ball: Stainless Steel, CF8M, ASTM A351

Stem: Stainless Steel, Type 316

Seats: (PTFE) Polytetrafluoroethylene

Locking Handle: Stainless Steel, Type 304

Stem Nut: Stainless Steel, Type 304

Stem Washer: Stainless Steel, Type 304

Stem Packing and Thrust Washer: (PTFE) Polytetrafluoroethylene

Bolt/Nut/Washer: 300 Series Stainless Steel

Cap: Stainless Steel, CF8M, ASTM A351

Extended Ends: Schedule 10S Stainless Steel, Type 316

Specify End Style:

- Vic-Press™ Schedule 10S × Vic-Press™ Schedule 10S (P × P)
- Grooved End (G × G)
- Vic-Press™ Schedule 10S × Grooved End (P × G)

Press Seals:

Grade	Temp. Range ¹	Compound	Color Code	General Service Recommendations
H	–20°F to +210°F –29°C to +98°C	Hydrogenated Nitrile Butadiene Rubber (HNBR)	Two Orange Stripes	May be specified for hot petroleum/water mixtures, hydrocarbons, air with oil vapors, vegetable and mineral oils, engine oil, transmission oil. UL Classified in accordance with ANSI/NSF 61 for cold +73°F/+23°C and hot +180°F/+82°C potable water service and ANSI/NSF 372.
				Standard Seal - Vic-Press™ products will ship with Grade "H" seal unless otherwise specified on your order
E	–30°F to +250°F –34°C to +121°C	EPDM Ethylene Propylene Diene Monomer	Green Stripe	May be specified for hot water service, dilute acids, oil-free air, chemical services. UL Classified in accordance with ANSI/NSF 61 for cold +73°F/+23°C and hot +180°F/+82°C potable water service and ANSI/NSF 372. NOT COMPATIBLE FOR USE WITH PETROLEUM OR STEAM SERVICES.
O	+20°F to +300°F –7°C to +149°C	Fluoroelastomer	Blue Stripe	May be specified for oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids, and air with hydrocarbons. NOT COMPATIBLE FOR USE WITH HOT WATER OR STEAM SERVICES.

¹ For specific chemical and temperature compatibility, refer to the [Gasket Chemical Services Guide Long Report](#) (GSG-100) located on victaulic.com. The information shown defines general ranges for all compatible fluids.

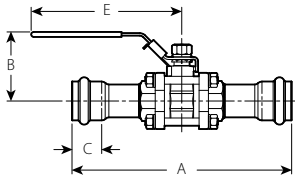
NOTE

- Vic-Press™ Seals are pre-lubricated. No additional lubrication is required for installation.

4.0 DIMENSIONS

Series P569²
Working Pressure: 400 psi/2758 kPa

Vic-Press™ for Schedule 10S × Vic-Press™ Schedule 10S (P × P)



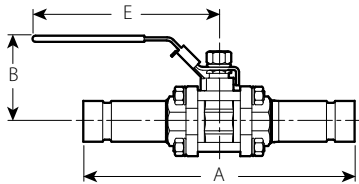
Size		Dimensions				Weight
Nominal	Actual Outside Diameter	A End to End	B	C	E	Approximate (Each)
inches DN	inches mm	inches mm	inches mm	inches mm	inches mm	lb kg
1/2 DN15	0.840 21.3	8.44 214.3	2.24 56.9	1.06 26.9	4.02 102.1	1.5 0.7
3/4 DN20	1.050 26.7	8.63 219.2	2.64 67.0	1.06 26.9	4.96 126.0	2.4 1.1
1 DN25	1.315 33.4	9.23 234.4	2.76 70.1	1.19 30.2	5.00 127.0	3.6 1.6
1 1/2 DN40	1.900 48.3	10.11 256.8	3.74 95.0	1.38 35.1	6.14 156.0	6.9 3.1
2 DN50	2.375 60.3	10.46 265.7	4.02 102.1	1.63 41.4	7.52 191.0	9.5 4.3

² Not approved for use in maritime services

4.0 DIMENSIONS (CONTINUED)

Series P569²
Working Pressure: 400psi/2758kPa

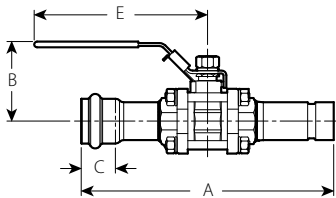
Groove x Groove (G x G)



Size		Dimensions			Weight
Nominal	Actual Outside Diameter	A End to End	B	E	Approximate (Each)
inches	inches	inches	inches	inches	lb
DN	mm	mm	mm	mm	kg
¾	1.050	8.81	2.64	4.96	2.4
DN20	26.7	223.8	67.0	126.0	1.1
1	1.315	9.21	2.76	5.00	3.6
DN25	33.4	234.0	70.1	127.0	1.6
1 ½	1.900	11.25	3.74	6.14	6.9
DN40	48.3	285.8	95.0	156.0	3.1
2	2.375	12.74	4.02	7.52	9.5
DN50	60.3	323.6	102.1	191.0	4.3

² Not approved for use in maritime services

Vic-Press™ Schedule 10S x Groove (P x G)



Size		Dimensions				Weight
Nominal	Actual Outside Diameter	A End to End	B	C	E	Approximate (Each)
inches	inches	inches	inches	inches	inches	lb
DN	mm	mm	mm	mm	mm	kg
¾	1.050	8.72	2.64	1.06	4.96	2.4
DN20	26.7	221.5	67.0	26.9	126.0	1.1
1	1.315	9.21	2.76	1.19	5.00	3.6
DN25	33.4	234.0	70.1	30.2	127.0	1.6
1 ½	1.900	10.68	3.74	1.38	6.14	6.9
DN40	48.3	271.3	95.0	35.1	156.0	3.1
2	2.375	11.60	4.02	1.63	7.52	9.5
DN50	60.3	294.6	102.1	41.4	191.0	4.3

² Not approved for use in maritime services

5.0 PERFORMANCE

Flow Characteristics

- Flow testing for the Vic-Press™ Series P569 three-piece Ball Valve demonstrated superior flow characteristics.
- Testing was performed in our own engineering laboratory facilities with systems and equipment calibrated to National Bureau of Standards.
- C_v/K_v values for flow of water at +60°F/+16°C with a fully open valve are shown in tables below.

Formulas for C_v Values:

$$\Delta P = \frac{Q^2}{C_v^2}$$

$$Q = C_v \times \sqrt{\Delta P}$$

Where:

Q = Flow (GPM)

ΔP = Pressure Drop (psi)

C_v = Flow Coefficient

Formulas for K_v Values:

$$\Delta P = \frac{Q^2}{K_v^2}$$

$$Q = K_v \times \sqrt{\Delta P}$$

Where:

Q = Flow (m³/hr)

ΔP = Pressure Drop (Bar)

K_v = Flow Coefficient

Valve Size		Full Open
Nominal inches DN	Actual Outside Diameter inches mm	Flow Coefficient C _v K _v
½ DN15	0.840 21.3	10 9
¾ DN20	1.050 26.7	17 14
1 DN25	1.315 33.4	45 39
1 ½ DN40	1.900 48.3	125 107
2 DN50	2.375 60.3	365 314

Series P569 Repair Kits

- Kits and replacement parts are available for the Series P569 valve.
- The Repair Kit consists of one CF8M stainless steel ball, two seats, two gaskets, one stem seal and one thrust washer, all made of PTFE.
- For replacement stem information, contact Victaulic.

Size		Repair Kit
Nominal inches DN	Actual Outside Diameter inches mm	Part No.
½ DN15	0.840 21.3	K-004-569-0P2
¾ DN20	1.050 26.7	K-006-569-0P2
1 DN25	1.315 33.4	K-010-569-0P2
1 ½ DN40	1.900 48.3	K-014-569-0P2
2 DN50	2.375 60.3	K-020-569-0P2

6.0 NOTIFICATIONS

⚠ WARNING



- Read and understand all instructions before attempting to install any Victaulic products.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Confirm that any equipment, branch lines, or sections of piping that may have been isolated for/during testing or due to valve closures/positioning are identified, depressurized, and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Wear safety glasses, hardhat, and foot protection.

Failure to follow these instructions could result in death or serious personal injury and property damage.

- It is the system designer's responsibility to verify suitability of materials for use with the intended fluid media within the piping system and external environment.
- The material specifier shall evaluate the internal and external effect of chemical composition, pH level, operating temperature, chloride level, oxygen level, and flow rate on materials to confirm system life will be acceptable for the intended service.

Failure to follow these instructions could compromise system integrity or cause system failure, resulting in death or serious personal injury and property damage.

7.0 REFERENCE MATERIALS

[02.06: Approvals for Potable Water Products](#)

[05.01: Victaulic® Seal Selection Guide](#)

[10.01: Victaulic Fire Protection Certifications/Listings Guide](#)

[18.11: Vic-Press™ for Schedule 10S Type 316 Stainless Steel](#)

[18.12: Vic-Press for Schedule 10S Type 304 Stainless Steel](#)

[18.13: Vic-Press for Schedule 10S Qualification Test Data](#)

[18.16: Vic-Press for Schedule 10S ASME B31.1 Compliance](#)

[18.17: Vic-Press for Schedule 10S ASME B31.3 Compliance](#)

[18.18: Vic-Press for Schedule 10S ASME B31.9 Compliance](#)

[I-P500: Victaulic Field Installation Handbook Vic-Press Schedule 10S System Products](#)

[I-ENDCAP: Victaulic End Cap Installation Instructions](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for determining the suitability of Victaulic products for their end-use application, in accordance with industry standards, project specifications, and Victaulic's published performance, maintenance, and safety data, as well as all warnings and installation instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, warranty, installation instructions, or this disclaimer.

Installation

Always refer to and follow the [Victaulic Installation Handbook](#) or installation instructions for the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at [victaulic.com](#).

Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

Intellectual Property Rights

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Note

All products bearing a Victaulic trademark are manufactured by Victaulic or to Victaulic specifications. All products are to be installed only in accordance with the applicable Victaulic installation instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.