



Bare Valve

Valve with Lever Handle

1.0 PRODUCT DESCRIPTION

Available Sizes

• 2 - 6"/DN50 - DN150

Pipe Material

Carbon steel

Maximum Working Pressure

• Rated up to 1500 psi/10350 kPa/103 bar

Operating Temperature

• Reference section 3.0 for gasket performance options

Function

- High pressure enhanced port NACE compliant ball valve
- Offers up to 1/3 better flow when compared with competitive standard port ball valves
- Integral/tamper resistant lock

Pipe Preparation

• Cut or roll groove pipe in accordance with <u>Publication 25.01</u>: Original Groove System (OGS) Groove Specifications

2.0 CERTIFICATION/LISTINGS

Product designed and manufactured under Victaulic's Quality Management System, as certified by LPCB in accordance with ISO -9001:2008.

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

System No.	Location	Spec Section	Paragraph	
Submitted By	Date	Approved	Date	

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3.0 SPECIFICATIONS – MATERIAL

Body and End Cap: Ductile iron conforming to ASTM A395/395M-99 Grade 60-40-18.

Standard: Grooved end by grooved end.

Optional: 2 – 4"/DN50 – DN100 grooved end by male threaded end and grooved end by female threaded end.

Stem: AISI 1020 Carbon Steel Electroless Nickel Plated to ASTM B733-04 to SC4 Severe Service.

Optional: UNS31600 Type 316 per ASTM A351/351M stainless steel.

Ball: ASTM A105 Carbon Steel. Electroless Nickel Plated to ASTM B733-04 to SC4 Severe Service.

Optional: UNS31600 Type 316 per ASTM A351/351M stainless steel.

Optional Ball: Uni-Directional to equalize upstream line pressure.

Seats: Lubricated Nylon Temperature range -20°F to 150°F/-29°C to + 66°C continuous.

Seals: Nitrile.

Operators:

Lever Handle: 2 - 6"/DN50 - DN150

Ductile Iron per ASTM A 536 Grade 65-45-12, enamel paint

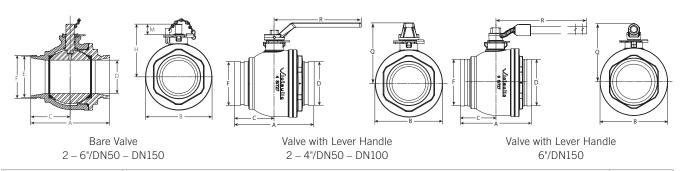
Integral Locking Drive Components:

Stamped carbon steel ASTM A1008 zinc plated ASTM B633 SCII Type 3



4.0 **DIMENSIONS**

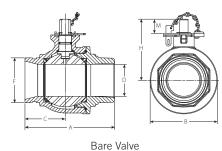
Series 727 Grooved Ball Valve

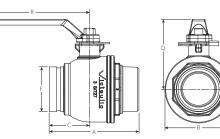


Si	ze	Dimensions									Weight	
Nominal	Actual Outside Diameter	A	В	С	D	E	F	Н	М	Q	R	Approximate (Each)
inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	lb
DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
2	2.375	5.63	4.00	2.63	1.75	2.25	2.38	3.63	0.75	4.63	9.00	7.2
DN50	60.3	140	102	67	45	57	61	92	19	118	228	3.3
3	3.500	6.63	5.25	3.13	2.50	3.38	3.50	4.50	1.13	5.50	9.00	16.8
DN80	88.9	168	133	80	64	86	89	114	29	140	228	7.6
4	4.500	8.25	7.00	4.13	3.50	4.38	4.50	5.50	1.13	6.38	9.00	36.3
DN100	114.3	210	178	105	89	111	114	140	29	160	228	16.5
6	6.625	10.13	9.63	5.13	5.00	6.63	6.63	7.75	1.88	8.38	18.00	86.5
DN150	168.3	257	245	130	127	168	168	197	48	213	457	39.2

4.1 DIMENSIONS

Series 727 Male Threaded Ball Valve





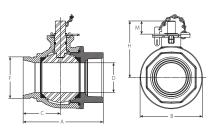
Valve with Lever Handle

Si	ze	Dimensions								Weight	
Nominal	Actual Outside Diameter	A	В	С	D	F	Н	м	Q	R	Approximate (Each)
inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	lb
DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
2	2.375	5.50	4.00	2.63	1.75	2.38	3.63	0.75	4.63	9.00	7.4
DN50	60.3	140	102	67	45	61	92	19	118	228	3.4
3	3.500	7.00	5.25	3.25	2.50	3.50	4.75	1.13	5.50	9.00	17.4
DN80	88.9	178	133	80	64	89	121	29	140	228	7.9
4	4.500	8.75	7.00	4.13	3.50	4.50	5.50	1.13	6.38	9.00	37.5
DN100	114.3	222	178	105	89	115	140	29	160	228	17.0

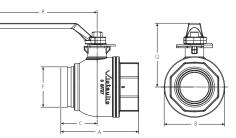


4.1 DIMENSIONS (CONTINUED)

Series 727 Female Threaded Ball Valve



Bare Valve



Valve with Lever Handle

Si	ze	Dimensions								Weight	
Nominal	Actual Outside Diameter	A	В	С	D	F	н	м	Q	R	Approximate (Each)
inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	lb
DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
2	2.375	5.50	4.00	2.63	1.75	2.38	3.63	0.75	4.63	9.00	7.5
DN50	60.3	140	100	67	45	61	92	19	118	228	3.5
3	3.500	6.75	5.25	3.13	2.50	3.50	4.75	1.13	5.50	9.00	17.8
DN80	88.9	171	133	80	64	89	121	29	140	228	8.0
4	4.500	8.50	7.00	4.13	3.50	4.50	5.50	1.13	6.38	9.00	38.8
DN100	114.3	214	177	104	89	114	140	29	160	228	17.6

5.0 PERFORMANCE

Flow Characteristics

 C_{ν} values for flow of water at +60°F/+16°C with a fully open value are shown in tables below.

Formulas for C_v values:

$$\begin{array}{ll} \Delta P &= & Q^2 & \mbox{Where:} \\ & & Q = \mbox{Flow (GPM)} \\ & & \Delta P = \mbox{Pressure Drop (psi)} \\ Q &= & C_v \times \sqrt{\Delta P} & \mbox{C}_v = \mbox{Flow Coefficient} \end{array}$$

Si		
Nominal	Actual Outside Diameter	(Full Open)
inches	inches	
DN	mm	Cv
2	2.375	325
DN50	60.3	525
3	3.500	650
DN80	88.9	020
4	4.500	2000
DN100	114.3	2000
6	6.625	2500
DN150	168.3	2300



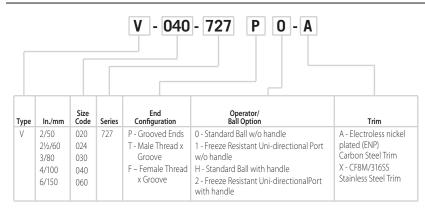
6.0 NOTIFICATIONS



- Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Wear safety glasses, hardhat, and foot protection.

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

7.0 REFERENCE MATERIALS



NOTE

• End configurations dependent on sizes. See Section 4.0 for details.

25.01: Original Groove System (OGS) Groove Specifications 29.01: Terms and Conditions/Warranty I-100: Field Installation Handbook

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, and the applicable building codes and related regulations as well as Victaulic performance, maintenance, safety, and warning 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, installation guide, or this disclaimer.

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Note

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

Installation

Reference should always be made to the Victaulic installation handbook or installation instructions of 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 www.victaulic.com.

Warranty

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