



1.0 PRODUCT DESCRIPTION

Available Sizes

- 10 – 16"/DN250 – DN400

Pipe Material

- Duplex or Super Duplex Stainless Steel

Maximum Working Pressure

- 1200psi/8274 kPa

Operating Temperature

- Maximum operating temperature of 180°F/82°C.

Function

- Typically for use in reverse osmosis desalination applications.
- Intended for use in on-off or control services dependent on plug options, see below.

Service

Plug Options

- Victaulic offers the Series 465 Plug Valve with various plugs for different operating conditions.
- ON/OFF: For system and component isolation
- CONTROL: Victaulic offers several types of control valve solutions.

NOTE

- Please contact Victaulic for details on how we can provide a valve engineered to meet your system requirements.

Pipe Preparation

- Designed specifically for use on Victaulic StrengThin System formed ends. For additional information contact Victaulic

DISCONTINUED PRODUCT

2.0 CERTIFICATION/LISTINGS

UL Classified in accordance with ANSI/NSF 61 for cold +73°F/+23°C high flow, high velocity applications such as public water treatment facilities and ANSI/NSF 372.¹

¹ Reference ANSI/NSF - 2012, sec.3.3.2.

NOTES

- Refer to Victaulic [submittal publication 02.06](#) for potable water approvals if applicable.

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

| | | | |
|--------------|--|----------|--|
| System No. | | Location | |
| Submitted By | | Date | |

| | | | |
|--------------|--|-----------|--|
| Spec Section | | Paragraph | |
| Approved | | Date | |

3.0 SPECIFICATIONS – MATERIAL

- Body:** ASTM A890 Grade 5A Super Duplex.
- Bonnet:** ASTM A890 Grade 5A Super Duplex.
- Plug:** ASTM A890 Grade 5A Super Duplex.
- Bonnet Coupling:** ASTM Grade A536 Ductile Iron VC-200 Coated.
- Sleeve and Seals:** PTFE.

NOTE

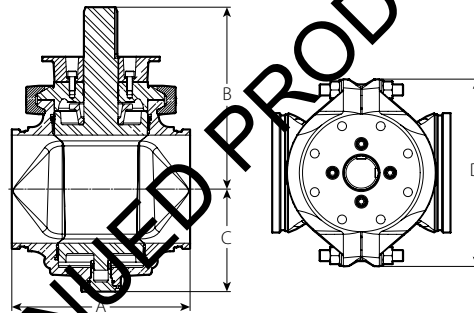
- Additional casting materials available on request.

3.1 SPECIFICATIONS – TECHNICAL

- Ends:** Victaulic Original Grooved System (OGS), Victaulic StrenghThin™ System Ends.
- Production Hydrostatic Test:** In accordance with API 598.
- Service:** ON/OFF (isolating) and Flow Control configurations available.
- Operation:** Manual (gearbox), Pneumatic, Hydraulic and Electric actuators.
- Accessories:** Many actuation accessories are available; Limit Switches, Positioners, Solenoids, Positions Transmitters, Communication Buses, Control Panels

4.0 DIMENSIONS

Series 466



| Valve Size | | Dimensions | | | |
|------------------|-------------------------|----------------------------|--------------|--------------|--------------|
| Nominal Diameter | Actual Outside Diameter | A | B | C | D |
| inches DN | inches mm | End to End inches mm | inches mm | inches mm | inches mm |
| 10 250 | 10.750 273.1 | 18.3 465 | 17.6 446 | 11.5 292 | 19.0 483 |
| 12 300 | 12.750 323.9 | 20.0 508 | 18.7 474 | 12.8 326 | 21.5 546 |
| 14 350 | 14.000 355.6 | 22.0 559 | 20.5 520 | 13.2 336 | 23.5 597 |
| 16 400 | 16.000 406.4 | 25.3 643 | 23.9 607 | 14.2 361 | 26.0 660 |

- Plug Options:** Victaulic offers the Series 466 Plug Valve with various plugs for different operating conditions:
- ON/OFF:** For system and component isolation
- CONTROL:** Victaulic offers several types of control valve solutions.
- Typical Specifications:** Victaulic Series 466 Plug valves 10 – 16"/250 – 400 mm sizes shall be both bi-directional and dead-end service capable to full rated pressure. Body and bonnet material shall be stainless steel according to internationally recognized material standards. Sleeve, seal and seat material shall be PTFE. Valve shall have standard ISO flange mounting for ease of actuation. Ends shall be Victaulic StrenghThin™ System or OGS (Original Grooved System).

NOTE

- Please contact Victaulic for details on how we can provide a valve engineered to meet your system requirements.

5.0 PERFORMANCE

Valve Numbering System:

V0466 100 1 A A 4A P B

| Series | Size | | Plug Type | End Type 1 | End Type 2 | Body/Bonnet Material | Seat Material | Operator | |
|--------|--------|------|------------|------------------|--|----------------------|---------------|-----------------|---------------|
| | In./mm | Code | | | | | | | |
| V0466 | 10/250 | 100 | 1 - On/Off | A - AGS Grooved | A - AGS Grooved | 4A - ASTM A-890 | P - PTFE | B - Bare Shaft | |
| | 12/300 | 120 | | G - OGS Grooved | G - OGS Grooved | Grade 4A | | E - Electric | |
| | 14/350 | 140 | | S - StrenghThin™ | S - StrenghThin™ | 5A - ASTM A-890 | | G - Gear Box | |
| | 16/400 | 160 | | | | | | Grade 5A | H - Hydraulic |
| | | | | | | | | 6A - ASTM A-890 | Grade 6A |
| | | | | | CK - ASTM A-351 CK3CuN (254 SMO) | | P - Pneumatic | | |
| | | | | | C8 - ASTM A-351 CF8M (316SS) | | | | |
| | | | | | C3 - ASTM A-351 CF8M (316L) | | | | |
| | | | | | 5B - ASTM A-995 Grade 5A | | | | |

6.0 NOTIFICATIONS

⚠ WARNING

Verify that the valve's mating ends are supplied with the same groove profile as the adjoining pipe:

- Valves with Original Groove System (OGS) mating ends must be used only with pipe prepared to OGS specifications.
- Valves with StrenghThin™ mating ends must be used only with pipe prepared to StrenghThin specifications with the Victaulic VSF216 equipment.
- DO NOT attempt to assemble this valve with pipe that has been prepared to any other grooved system.

Failure to follow these instructions will cause product failure, resulting in death or serious personal injury and property damage.

7.0 REFERENCE MATERIALS

[02.06: Potable Water Approvals](#)

DISCONTINUED PRODUCT

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.

Intellectual Property Rights

No statement contained herein concerning a possible or suggested use of any material, product, service, or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Victaulic or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product, service, or design in the infringement of any patent or other intellectual property right. The terms "Patented" or "Patent Pending" refer to design or utility patents or patent applications for articles and/or methods of use in the United States and/or other countries.

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

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

Trademarks

Victaulic and all other Victaulic marks are the trademarks or registered trademarks of Victaulic Company, and/or its affiliated entities, in the U.S. and/or other countries.