

# Stainless Steel Pipe System

## Vic-Press™ for Schedule 10S Type 316/316L Stainless Steel



The Victaulic® PFT510 tool is the only press tool approved for use on the Vic-Press™ for Schedule 10S System.

### 1.0 PRODUCT DESCRIPTION

#### Available Sizes:

- ½ – 2"/DN15 – DN50

#### Maximum Working Pressure:

- Accommodates pressures ranging from full vacuum (29.9 in Hg/760 mm Hg) up to 500 psi/3447 kPa
- Rated up to 300 psi when used with Schedule 5S pipe
- FM Approved to 300 psi/2068 kPa

#### Application:

- Joins ASTM A312 Schedule 10S Types 316/316L stainless steel pipe
- Recommended on services conveying water, hydrocarbons, water/hydrocarbon mixtures, air (wet/dry/with oil vapors), other gases, vegetable and mineral oils, as well as automotive fluids such as engine oil and transmission fluid within the temperature range of -30°F to +300°F/-34°C to +149°C, depending on service and seal material selected.

#### Pipe Materials:

- Standard ASTM A312 Schedule 10S Types 316/316L stainless steel pipe

#### Codes and Requirements:

- Support hanger spacing correspond to ASME B31.1 Power Piping Code, ASME B31.3 Process Piping, and ASME B31.9 Building Services Piping Code.
- Meets ASME requirements and ratings for ANSI Class 150 systems for water, oil, gases and general chemical services
- Meets the requirements of ASME B31.1, B31.3 and B31.9 for Schedule 10S systems
- Request publications [18.16](#), [18.17](#) and [18.18](#) for details.

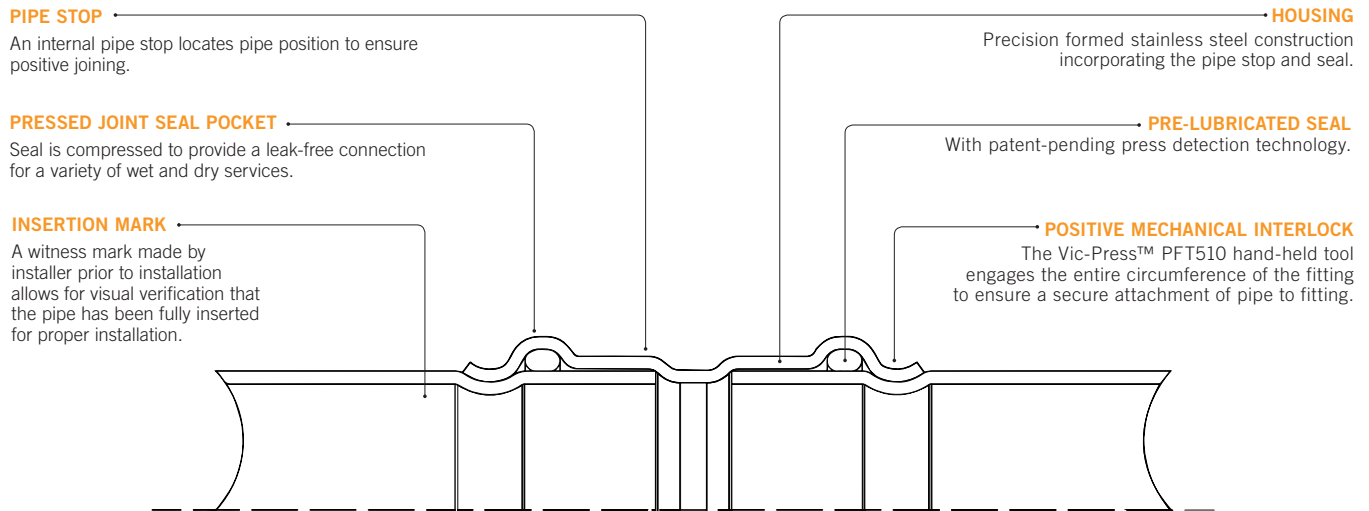
ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	

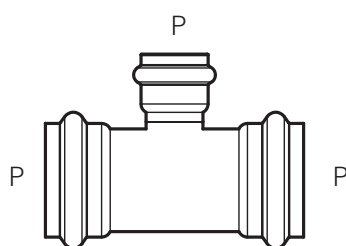
## 1.1 PRODUCT DESCRIPTION

### Vic-Press™ Joining System for Schedule 10S Type 316/316L Stainless Steel Pipe



#### Dimensional Information

- Products in the Vic-Press™ for Schedule 10S system for Type 316/316L stainless steel have unique center-to-end or end-to-end dimensions which incorporate specific, “takeout” dimensions for easy fabrication calculations.
- Use of threaded products employing special features such as probes, escutcheon cups, etc., should be checked to be certain the thread standard and length of insertion are compatible with fitting dimensions.
- Failure to verify dimensional suitability in advance may result in difficulties in assembly.



#### End Type Code

P = Press  
F = Female Thread  
M = Male Thread  
T = Plain End  
L = Flanged  
G = Grooved  
EOB = End of Branch  
W = Weld Ends

## 2.0 CERTIFICATION/LISTINGS



#### NOTES

- See [publication 02.06](#): Victaulic Potable Water Approvals ANSI/NSF for potable water approvals if applicable.
- For complete information on Maritime approvals, visit <https://www.victaulic.com/maritime-approvals/>

### 3.0 SPECIFICATIONS - MATERIAL

**Housing:** Made from Type 316L stainless steel.

**Threaded Outlets:** Made from stainless steel bar, or stainless steel pipe conforming to ASTM A312, Type 316L.

**Plain End or Grooved End Products:** Stainless steel pipe conforming to ASTM A312, Type 316L.

**Style P575 Flange Adapter:** ANSI Class 150 or AS 2129 Table E, Type 316L raised face one-piece Type 316L stainless steel flange adapter.

**Style P566 Van Stone Flange Adapter:** ANSI Class 150 or AS 2129 Table E, carbon steel raised face slip on flange with Type 316 stainless steel stub end.

**Style P574 Concentric Reducer:** Reducer body made from Type 316 stainless steel, press ends made from Type 316L stainless steel.

#### Seal:

##### ☐ Victaulic Grade “H” HNBR

HNBR (Two orange stripes color code). Temperature range -20°F to +210°F/-29°C to +98°C. 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.

#### Optional Seal: (specify choice<sup>1</sup>)

##### ☐ Victaulic Grade “E” EPDM

EPDM (Green stripe color code). Temperature range -30°F to +250°F/-34°C to +121°C. 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.**

##### ☐ Victaulic Grade “O” Fluoroelastomer

Fluoroelastomer (Blue stripe color code). Temperature range +20°F to + 300°F/-7°C to +149°C. May be specified for many oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids and air with hydrocarbons. **NOT COMPATIBLE FOR HOT WATER OR STEAM SERVICES.**

##### ☐ Others

For alternate gasket selection, reference [publication 05.01](#): Victaulic Seal Selection Guide - Elastomeric Seal Construction.

<sup>1</sup> Services listed are General Service Guidelines only. It should be noted that there are services for which these gaskets are not compatible. Reference should always be made to the latest [Victaulic Seal Selection Guide](#) for specific gasket service guidelines and for a listing of services which are not compatible.

#### NOTE

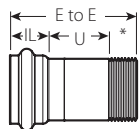
- Vic-Press™ for Schedule 10S seals are pre-lubricated to further simplify the installation process. To maintain the integrity of the lubrication, components are shipped in factory sealed bags and should remain bagged until ready for use. For more information regarding the lubricant used, please refer to [publication 05.07](#).

## 4.4 DIMENSIONS

### Male Threaded Adapter<sup>2</sup>

Style P576 (P x M)

Working Pressure: 500psi/3447 kPa



\*Length of effective thread

Style P576

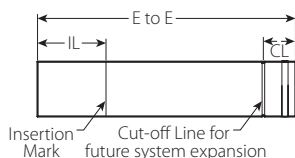
Size		Dimensions			Weight
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	U Takeout inches mm	IL Insertion Length inches mm	Approx. (Each) lb kg
1/2 x 1/2 DN15 x DN15	0.840 x 0.840 21.3 x 21.3	3.93 99.8	2.32 58.9	1.06 26.9	0.3 0.1
3/4 x 1/2 DN20 x DN15	1.050 x 0.840 26.7 x 21.3	3.34 84.8	1.75 44.5	1.06 26.9	0.4 0.2
3/4 DN20	1.050 26.7	3.85 97.8	2.22 56.4	1.06 26.9	0.4 0.2
1 DN25	1.315 33.4	3.34 84.8	1.60 40.6	1.06 26.9	0.5 0.2
1 x 3/4 DN25 x DN20	1.315 x 1.050 33.4 x 26.7	3.50 88.9	1.77 45.0	1.19 30.2	0.5 0.2
1 DN25	1.315 33.4	4.19 106.4	2.32 58.9	1.19 30.2	0.6 0.3
1 1/2 x 3/4 DN40 x DN20	1.900 x 1.050 48.3 x 26.7	3.65 92.7	1.73 43.9	1.38 35.1	0.8 0.4
1 1/2 DN40	1.900 48.3	4.38 111.3	2.28 57.9	1.38 35.1	1.0 0.5
2 x 2 DN50 x DN50	2.375 x 2.375 60.3 x 60.3	4.86 123.4	2.46 62.5	1.63 41.4	1.4 0.6

<sup>2</sup> Available with British Standard Pipe Threads. Specify BSPT on order.

### End Cap

Style P560

Working Pressure:  
500 psi/3447 kPa



Insertion Mark Cut-off Line for future system expansion

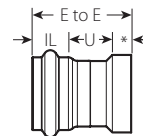
Style P560

Size		Dimensions			Weight
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	IL Insertion Length inches mm	CL Cut-off Line inches mm	Approx. (Each) lb kg
1/2 DN15	0.840 21.3	4.00 101.6	1.06 26.9	0.5 12.7	0.24 0.11
3/4 DN20	1.050 26.7	4.00 101.6	1.06 26.9	0.5 12.7	0.30 0.14
1 DN25	1.315 33.4	4.38 111.3	1.19 30.2	0.5 12.7	0.54 0.24
1 1/2 DN40	1.900 48.3	4.75 120.7	1.38 35.1	0.5 12.7	0.87 0.39
2 DN50	2.375 60.3	5.25 133.4	1.63 41.4	0.5 12.7	1.22 0.55

### Female Threaded Adapter<sup>2</sup>

Style P579 (P x F)

Working Pressure: 500psi/3447 kPa



\*Length of effective thread

Style P579

Size		Dimensions			Weight
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	U Takeout inches mm	IL Insertion Length inches mm	Approx. (Each) lb kg
1/2 x 1/2 DN15 x DN15	0.840 x 0.840 21.3 x 21.3	2.39 60.7	0.79 20.1	1.06 26.9	0.3 0.1
3/4 x 1/2 DN20 x DN15	1.050 x 0.840 26.7 x 21.3	2.31 58.7	0.71 18.0	1.06 26.9	0.3 0.1
3/4 DN20	1.050 26.7	2.31 58.7	0.79 20.1	1.06 26.9	0.4 0.2
1 x 1/2 DN25 x DN15	1.315 x 0.840 33.4 x 21.3	2.47 62.7	0.75 19.1	1.19 30.2	0.7 0.3
3/4 DN20	1.050 26.7	2.47 62.7	0.73 18.5	1.19 30.2	0.6 0.3
1 DN25	1.315 33.4	2.60 66.0	0.88 22.4	1.19 30.2	0.6 0.3
1 1/2 x 1 DN40 x DN25	1.900 x 1.315 48.3 x 33.4	2.92 74.2	0.91 23.1	1.38 35.1	1.0 0.5
1 1/4 DN32	1.660 42.4	2.92 74.2	0.86 21.8	1.38 35.1	0.8 0.4
1 1/2 DN40	1.900 48.3	2.92 74.2	0.86 21.8	1.38 35.1	1.0 0.5
2 x 1 1/4 DN50 x DN32	2.375 x 1.660 60.3 x 42.4	3.57 90.7	1.24 31.5	1.63 41.4	1.1 0.5
1 1/2 x DN40	1.900 48.3	3.57 90.7	1.24 31.5	1.63 41.4	1.3 0.6
2 x DN50	2.375 60.3	3.57 90.7	1.24 31.5	1.63 41.4	1.2 0.5

<sup>2</sup> Available with British Standard Pipe Threads. Specify BSPT on order.