

Stainless Steel Pipe System



SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS

VIC-PRESS™ FOR SCHEDULE 10S TYPE 304 STAINLESS STEEL

Vic-Press for Schedule 10S Type 304/304L stainless steel pipe provides a fast, easy, clean and reliable means for joining ½ – 2”/15 – 50mm standard ASTM A-312 Schedule 10S stainless steel pipe. Vic-Press for Schedule 10S products meet ASME requirements and ratings for ANSI Class 150 systems for water, oil, gases and general chemical services and is pressure rated up to a maximum of 500 psi/3450 kPa.†

The Vic-Press for Schedule 10S system requires no flame or arc as with welding, and no cutting oil, chips or preparation time as with threading or flanging. Off-the-shelf Type 304 ASTM A-312 Schedule 10S stainless steel pipe is cut to length, inserted into the coupling/fitting and the fitting is pressed onto the pipe in seconds.

The Vic-Press for Schedule 10S system meets the requirements of ASME B31.1, B31.3 and B31.9. Request publication 18.16 for ASME B31.1, 18.17 for B31.3 and 18.18 for B31.9 requirements.

Vic-Press for Schedule 10S Type 304 couplings and fittings are recommended for varying concentrations of hot petroleum/water mixtures, hydrocarbons, air with oil vapors, 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 seal material selected. ANSI/NSF 61 Annex G Certified for cold (+86°F/+30°C) and hot (+180°F/+82°C) potable water service for Grade H, E and O seal materials. FM Approved to 175 psi/1205 kPa.

For product installation instructions, refer to Victaulic Product Assembly Instructions (I-P500) and the Tool Operating and Maintenance Instructions Manual (TM-PFT510).

† Pressure rating up to 300 psi/2065 kPa when used with Schedule 5S pipe.



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

VIC-PRESS JOINING SYSTEM FOR SCHEDULE 10S STAINLESS STEEL PIPE

INSERTION MARK

A witness mark made by installer prior to installation allows for visual verification that the pipe has been fully inserted for proper installation.

UNPRESSED JOINT SEAL POCKET

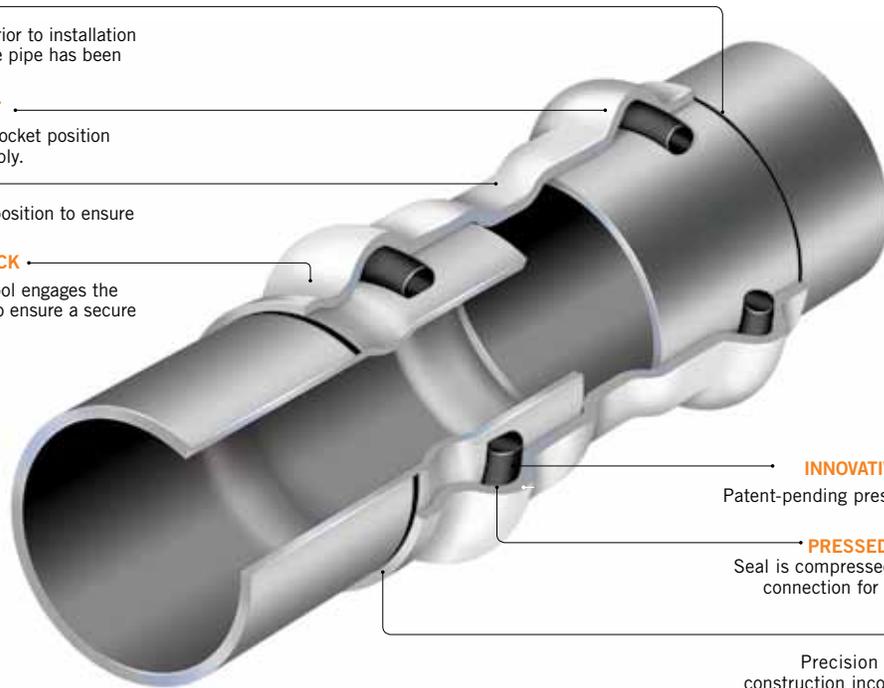
Sized to contain the seal, the seal pocket position helps protect the seal during assembly.

PIPE STOP

An internal pipe stop locates pipe position to ensure positive joining.

POSITIVE MECHANICAL INTERLOCK

The Vic-Press PFT510 hand-held tool engages the entire circumference of the fitting to ensure a secure attachment of pipe to fitting.



INNOVATIVE SEAL TECHNOLOGY

Patent-pending press detection technology

PRESSED JOINT SEAL POCKET

Seal is compressed to provide a leak-free connection for a variety of wet and dry services.

HOUSING

Precision formed stainless steel construction incorporating the pipe stop and seal.

JOB/OWNER

System No. _____

Location _____

CONTRACTOR

Submitted By _____

Date _____

ENGINEER

Spec Sect _____ Para _____

Approved _____

Date _____

www.victaulic.com

VICTAULIC IS A REGISTERED TRADEMARK OF VICTAULIC COMPANY. © 2012 VICTAULIC COMPANY. ALL RIGHTS RESERVED.

REV_E



Stainless Steel Pipe System

VIC-PRESS™ FOR SCHEDULE 10S TYPE 304 STAINLESS STEEL

MATERIAL SPECIFICATIONS

Housing Body: Made from Type 304 stainless steel.

Threaded Outlets: Made from stainless steel bar conforming to ASTM A-276, Grade 304, or stainless steel pipe conforming to ASTM A-312, Grade 304.

Plain End or Grooved End Products: Stainless steel pipe conforming to ASTM A-312, Grade 304.

Flanges for Style P595 and P565: ANSI Class 150, Grade 304.

Seals:

GRADE	TEMP. RANGE	COMPOUND	COLOR CODE	GENERAL SERVICE RECOMMENDATIONS
H	-20°F to +210°F -29°C to +98°C	HNBR Hydrogenated Nitrile Butadiene Rubber	Two Orange Stripes	Recommended for hot petroleum/water mixtures, hydrocarbons, air with oil vapors, vegetable and mineral oils, engine oil, transmission oil.
				ANSI/NSF 61 Annex G Certified for potable water up to 180°F/82°C.
***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	Recommended for hot water service, dilute acids, oil-free air, chemical services.
				NOT RECOMMENDED FOR PETROLEUM SERVICES. NOT RECOMMENDED FOR STEAM SERVICES.
ANSI/NSF 61 Annex G Certified for potable water up to 180°F/82°C.				
O	+20°F to +300°F -7°C to +149°C	Fluoroelastomer	Blue Stripe	Recommended for oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids, and air with hydrocarbons.
				NOT RECOMMENDED FOR HOT WATER OR STEAM SERVICES.
ANSI/NSF 61 Annex G Certified for potable water up to 180°F/82°C.				

* Services listed are General Service Recommendations only.

WARNING



WARNING

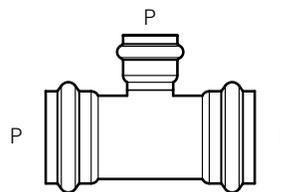
- Vic-Press for Schedule 10S products for Type 304 stainless steel must only be used on services compatible with seal and fitting materials.
- Incompatible services may result in leakage. Always reference the latest Victaulic Gasket Selection Guide (05.01) for specific seal service recommendations and for a listing of services which are not recommended.

Dimensional Information

Products in the Vic-Press for Schedule 10S system for Type 304 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 = Vic-Press Schedule 10S
- F = Female Pipe Thread
- M = Male Pipe Thread
- T = Plain End
- L = Flanged
- G = Grooved
- W = Welded
- EOB= End of Branch

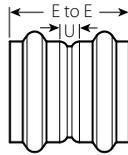
Stainless Steel Pipe System

VIC-PRESS™ FOR SCHEDULE 10S TYPE 304 STAINLESS STEEL

Standard Coupling

STYLE P597 (P × P)

Working pressure: 500 psi/3450 kPa



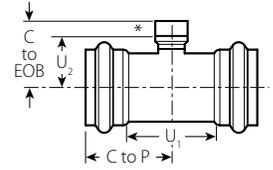
STYLE P597

Size		Dimensions – Inches/mm		Approx. Weight Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	E to E	U Takeout	Lbs. kg
½ 15	0.840	2.78	0.65	0.2
	21.3	70.6	16.5	0.1
¾ 20	1.050	2.78	0.65	0.3
	26.7	70.6	16.5	0.1
1 25	1.315	3.11	0.73	0.5
	33.4	79.0	18.5	0.2
1½ 40	1.900	3.48	0.72	0.7
	48.3	88.4	18.3	0.3
2 50	2.375	3.96	0.71	1.0
	60.3	100.6	18.0	0.5

Tee with Threaded Branch

STYLE P588 (P × P × F†)

Working pressure: 500 psi/3450 kPa



STYLE P588

Size			Dimensions – Inches/mm				Approx. Wgt. Each
Nominal Size Inches mm	C to P	U ₁ Takeout	C to EOB	U ₂ Takeout	Lbs. kg		
½ 15	½ 15	½ 15	1.71	1.29	1.46	0.93	0.4
			43.4	32.8	37.1	23.6	0.2
¾ 20	¾ 20	½ 15	2.01	1.89	1.57	1.04	0.5
			51.1	48.0	39.9	26.4	0.2
		¾ 20	2.01	1.89	1.56	1.02	0.6
			51.1	48.0	39.6	25.9	0.3
1 25	1 25	½ 15	2.27	2.17	1.70	1.17	0.9
			57.7	55.1	43.2	29.7	0.4
		¾ 20	2.27	2.17	1.70	1.15	0.9
			57.7	55.1	43.2	29.2	0.4
1½ 40	1½ 40	½ 15	2.72	2.68	1.99	1.46	1.4
			69.1	68.1	50.5	37.1	0.6
		¾ 20	2.72	2.68	1.99	1.44	1.5
			69.1	68.1	50.5	36.6	0.7
2 50	2 50	1 25	2.72	2.68	2.12	1.44	1.5
			69.1	68.1	53.8	36.6	0.7
		¾ 20	3.21	3.17	2.23	1.70	1.7
			85.1	80.5	56.6	43.2	0.8
2 50	2 50	¾ 20	3.21	3.17	2.23	1.68	1.7
			85.1	80.5	56.6	42.7	0.8
		1 25	3.21	3.17	2.36	1.68	2.0
			85.1	80.5	59.9	42.7	0.9

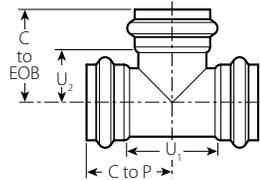
* Length of effective thread

† Available with British Standard Pipe Threads. Specify BSPT on order.

Tee

STYLE P592 (P × P × P)

Working pressure: 500 psi/3450 kPa



STYLE P592

Size		Dimensions – Inches/mm				Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Dia. Inches mm	C to P	U ₁	C to EOB	U ₂	Lbs. kg
½ 15	0.840	1.71	1.29	1.91	0.84	0.4
	21.3	43.4	32.8	48.5	21.3	0.2
¾ 20	1.050	2.01	1.89	1.93	0.87	0.5
	26.7	51.1	48.0	49.0	22.1	0.2
1 25	1.315	2.27	2.17	2.24	1.05	0.9
	33.4	57.7	55.1	56.9	26.7	0.4
1½ 40	1.900	2.72	2.68	2.74	1.37	1.5
	48.3	69.1	68.1	69.6	34.8	0.7
2 50	2.375	3.21	3.17	3.36	1.73	2.1
	60.3	81.5	80.5	85.3	43.9	1.0

Stainless Steel Pipe System

VIC-PRESS™ FOR SCHEDULE 10S TYPE 304 STAINLESS STEEL

Elbows

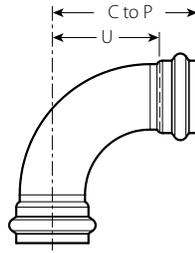
STYLE P586 90° Elbow (P × P)

STYLE P542 90° Street Elbow (P × T)

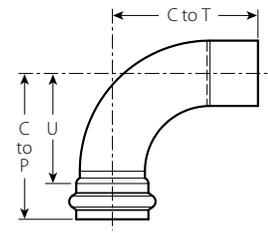
STYLE P591 45° Elbow (P × P)

STYLE P543 45° Street Elbow (P × T)

Working pressure: 500 psi/3450 kPa

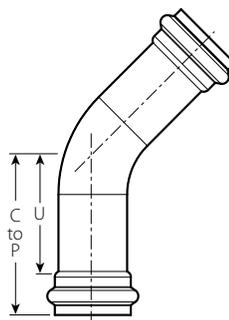


STYLE P586

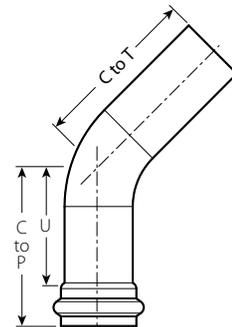


STYLE P542

Size		Style P586 90° Elbow			Style P542 90° Street Elbow			
Nominal Size Inches mm	Actual Outside Diameter Inches mm	C to P Inches mm	U Takeout Inches mm	Approx. Weight Each Lbs. kg	C to P* Inches mm	U Takeout Inches mm	C to T Inches mm	Approx. Weight Each Lbs. kg
½ 15	0.840 21.3	2.64 67.1	1.53 38.9	0.3 0.1	2.64 67.1	1.53 38.9	3.04 77.2	0.3 0.1
¾ 20	1.050 26.7	2.95 74.9	1.89 48.0	0.4 0.2	2.95 74.9	1.89 48.0	3.35 85.1	0.4 0.2
1 25	1.315 33.4	3.52 89.4	2.33 59.2	0.8 0.4	3.52 89.4	2.33 59.2	4.32 109.7	0.7 0.3
1½ 40	1.900 48.3	4.55 115.6	3.18 80.8	1.4 0.6	4.55 115.6	3.18 80.8	4.55 115.6	1.4 0.6
2 50	2.375 60.3	5.52 140.2	3.90 99.1	2.0 0.9	5.52 140.2	3.90 99.1	5.52 140.2	2.0 0.9



STYLE P591



STYLE P543

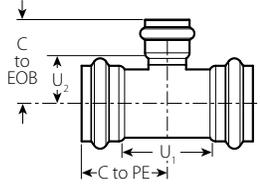
Size		Style P591 45° Elbow			Style P543 45° Street Elbow			
Nominal Size Inches mm	Actual Outside Diameter Inches mm	C to P Inches mm	U Takeout Inches mm	Approx. Weight Each Lbs. kg	C to P* Inches mm	U Takeout Inches mm	C to T Inches mm	Approx. Weight Each Lbs. kg
½ 15	0.840 21.3	1.89 48.0	0.83 21.1	0.2 0.1	1.89 48.0	0.83 21.1	1.89 48.0	0.2 0.1
¾ 20	1.050 26.7	2.56 65.0	1.50 38.1	0.4 0.2	2.56 65.0	1.50 38.1	2.56 65.0	0.4 0.2
1 25	1.315 33.4	3.27 83.1	2.09 53.1	0.8 0.4	3.27 83.1	2.09 53.1	3.27 83.1	0.8 0.4
1½ 40	1.900 48.3	4.96 126.0	3.59 91.2	1.7 0.8	4.96 126.0	3.59 91.2	4.96 126.0	1.7 0.8
2 50	2.375 60.3	5.84 148.3	4.22 107.2	2.5 1.1	5.84 148.3	4.22 107.2	5.84 148.3	2.5 1.1

Stainless Steel Pipe System

VIC-PRESS™ FOR SCHEDULE 10S TYPE 304 STAINLESS STEEL

Tee with Reducing Branch

STYLE P593 (P × P × P)
Working pressure: 500 psi/3450 kPa

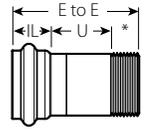


STYLE P593

Size			Dimensions – Inches/mm				Approx. Weight Each		
Nominal Size Inches mm			C to PE	U ₁	C to EOB	U ₂	Lbs. kg		
				Takeout		Takeout			
¾ 20	×	¾ 20	×	½ 15	2.01	1.89	2.01	0.5	
					51.1	48.0	51.1	0.2	
1 25	×	1 25	×	½ 15	2.27	2.17	2.14	1.08	
					57.7	55.1	54.4	0.4	
					¾ 20	2.27	2.17	2.07	1.00
					57.7	55.1	52.6	0.4	
1½ 40	×	1½ 40	×	½ 15	2.72	2.69	2.44	1.17	
					69.1	68.3	62.0	0.5	
					¾ 20	2.72	2.69	2.36	1.29
					69.1	68.3	59.9	0.6	
2 50	×	2 50	×	½ 15	3.21	3.16	2.67	1.61	
					81.5	80.3	67.8	0.8	
					¾ 20	3.21	3.16	2.60	1.53
					81.5	80.3	66.0	0.8	
1 25	×	1 25	×	¾ 20	2.72	2.69	2.53	1.34	
					69.1	68.3	62.3	0.6	
					1	2.72	2.69	2.53	1.34
1½ 40	×	1½ 40	×	1	2.72	2.69	2.53	1.34	
					69.1	68.3	62.3	0.6	
					1	2.72	2.69	2.53	1.34
2 50	×	2 50	×	1	2.72	2.69	2.53	1.34	
					69.1	68.3	62.3	0.6	
					1	2.72	2.69	2.53	1.34

Male Threaded Adapter

STYLE P596 (P × M†)
Working pressure: 500 psi/3450 kPa



STYLE P596

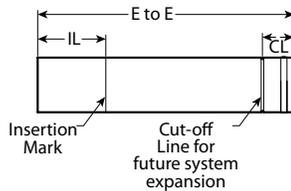
Size		Dimensions – Inches/mm			Approx. Weight Each		
Nominal Size Inches mm		E to E	U Takeout	IL Insert. Length	Lbs. kg		
½ 15	×	½ 15	3.93	2.32	1.06	0.3	
			99.8	58.9	26.9	0.1	
¾ 20	×	½ 15	3.34	1.75	1.06	0.4	
			84.8	44.5	26.9	0.2	
			¾ 20	3.85	2.22	1.06	0.4
			97.8	56.4	26.9	0.2	
1 25	×	¾ 20	3.34	1.60	1.06	0.5	
			84.8	40.6	26.9	0.2	
1 25	×	1 25	3.50	1.77	1.19	0.5	
			88.9	45.0	30.2	0.2	
1 25	×	1 25	4.19	2.32	1.19	0.6	
			106.4	58.9	30.2	0.3	
1½ 40	×	¾ 20	3.65	1.73	1.38	0.8	
			92.7	43.9	35.1	0.4	
			1½ 40	4.38	2.28	1.38	1.0
			111.3	57.9	35.1	0.5	
2 50	×	2 50	4.86	2.46	1.63	1.4	
			123.4	62.5	41.4	0.6	

* Length of effective thread

† Available with British Standard Pipe Threads. Specify BSPT on order.

End Cap

STYLE P540
Working pressure: 500 psi/3450 kPa



STYLE P540

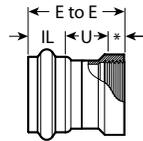
Size		Dimensions – Inches/mm			Approx. Wgt. Each
Nominal Size Inches mm		E to E	IL Insertion Length	CL Cut-off Line	Lbs. kg
½ 15		4.00	1.06	0.5	0.24
		101.60	26.9	12.7	0.11
¾ 20		4.00	1.06	0.5	0.30
		101.60	26.9	12.7	0.14
1 25		4.38	1.19	0.5	0.54
		111.25	30.2	12.7	0.24
1½ 40		4.75	1.38	0.5	0.87
		120.65	35.1	12.7	0.39
2 50		5.25	1.63	0.5	1.22
		133.35	41.4	12.7	0.55

Stainless Steel Pipe System

VIC-PRESS™ FOR SCHEDULE 10S TYPE 304 STAINLESS STEEL

Female Threaded Adapter

STYLE P599 (P × Ft)
Working pressure: 500 psi/3450 kPa



STYLE P599

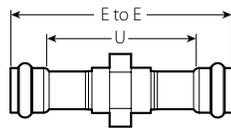
Size		Dimensions – Inches/mm			Approx. Weight Each	
Nominal Size Inches mm		E to E	U Takeout	IL Insert Length	Lbs. kg	
½ 15	× 15	2.39 60.7	0.79 20.1	1.06 26.9	0.3 0.1	
		¾ 20	× 15	2.31 58.7	0.71 18.0	1.06 26.9
¾ 20	× 20			2.31 58.7	0.79 20.1	1.06 26.9
		1 25	× 15	2.47 62.7	0.75 19.1	1.19 30.2
¾ 20	× 20			2.47 62.7	0.73 18.5	1.19 30.2
			1 25	× 25	2.60 66.0	0.88 22.4
1½ 40	× 25				2.92 74.2	0.91 23.1
		1¼ 30	× 30	2.92 74.2	0.86 21.8	1.38 35.1
	1½ 40			× 40	2.92 74.2	0.86 21.8
2 50		× 1¼ 30	3.57 90.7		1.24 31.5	1.63 41.4
	1½ 40		× 40	3.57 90.7	1.24 31.5	1.63 41.4
		2 50		× 50	3.57 90.7	1.24 31.5

* Length of effective thread

† Available with British Standard Pipe Threads. Specify BSPT on order.

Threaded Union

STYLE P584 (P × P)
Working pressure: 500 psi/3450 kPa

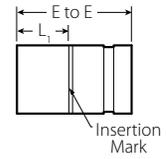


STYLE P584

Size		Dimensions – Inches/mm			Approx. Weight Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	E to E	U Takeout	Lbs. kg	
½ 15	0.840 21.3	7.5 190.5	5.37 136.4	3.0 1.4	
		¾ 20	1.050 26.7	7.37 187.2	5.24 133.1
1 25	1.315 33.4			7.59 192.8	5.21 132.3
		1½ 40	1.900 48.3	8.36 212.3	5.61 142.5
2 50	2.375 60.3			8.01 203.5	4.76 120.9

Transition Nipple

STYLE P587 (G × T)
Working pressure: 500 psi/3450 kPa

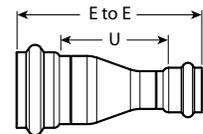


STYLE P587

Size		Dimensions – Inches/mm			Approx. Weight Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	E to E	L1 Minimum	Lbs. kg	
¾ 20	1.050 26.7	4.00 101.6	1.06 26.9	0.3 0.1	
		1 25	1.315 33.4	4.00 101.6	1.19 30.2
1½ 40	1.900 48.3			4.00 101.6	1.38 35.1
		2 50	2.375 60.3	4.00 101.6	1.63 41.4

Concentric Reducer

STYLE P594 (P × P)
Working pressure: 500 psi/3450 kPa



STYLE P594

Size		Dimensions – Inches/mm			Approx. Weight Each
Nominal Size Inches mm		E to E	U Takeout	Lbs. kg	
¾ 20	× 15	4.25 108.0	2.13 54.1	0.5 0.2	
		1 25	× 15	4.92 125.0	2.67 67.8
¾ 20	× 20			4.84 122.9	2.59 65.8
		1½ 40	× 15	5.57 141.5	3.13 79.5
¾ 20	× 20			5.49 139.4	3.06 77.7
			1 25	× 25	5.66 143.8
2 50	× 15	6.52 165.6			3.84 97.5
		¾ 20	× 20	6.44 163.6	3.76 95.5
	1 25			× 25	6.60 167.6
		1½ 40	× 40		6.75 171.5

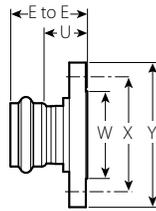
Stainless Steel Pipe System

VIC-PRESS™ FOR SCHEDULE 10S TYPE 304 STAINLESS STEEL

Flange Adapter

Raised face one-piece stainless steel flange adapter

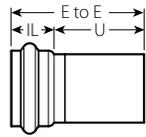
STYLE P595 (P × L)
Working pressure: 275 psi/1876 kPa



STYLE P595

Weld Adapter

STYLE P561 (P × T)
Working pressure: 500 psi/3450 kPa



STYLE P561

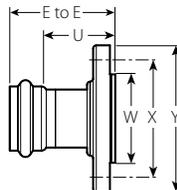
ANSI Class 150 Flange Adapter							
Size		Dimensions - Inches/mm					Approx. Weight Each
Nominal Size Inches/mm	Actual Out. Dia. Inches/mm	W	X	Y	E to E	U Takeout	Lbs. kg
½ 15	0.840 21.3	1.38 35.0	2.38 60.5	3.50 88.9	3.46 87.9	2.39 60.7	2.2 1.0
¾ 20	1.050 26.7	1.69 42.9	2.75 69.9	3.88 98.6	3.34 84.8	2.27 57.7	2.3 1.0
1 25	1.315 33.4	2.00 50.8	3.12 79.3	4.25 108.0	3.46 87.9	2.27 57.7	2.8 1.3
1 ½ 40	1.900 48.3	2.88 73.2	3.88 98.6	5.00 127.0	3.45 87.6	2.07 52.3	3.6 1.6
2 50	2.375 60.3	3.62 92.0	4.75 120.7	6.00 152.4	3.42 86.9	1.79 45.5	5.8 2.6

Size		Dimensions - Inches/mm			Approx. Weight Each
Nominal Size Inches/mm	Actual Outside Dia. Inches/mm	E to E	U Takeout	IL Insert Length	Lbs. kg
½ 15	0.840 21.3	3.92 99.6	2.85 72.4	1.06 26.9	0.3 0.1
¾ 20	1.050 26.7	3.84 97.5	2.77 70.4	1.06 26.9	0.4 0.2
1 25	1.315 33.4	4.18 106.2	3.00 76.2	1.19 30.2	0.6 0.3
1 ½ 40	1.900 48.3	4.37 111.0	2.98 75.7	1.38 35.1	0.9 0.4
2 50	2.375 60.3	4.85 123.2	3.22 81.8	1.63 41.4	1.4 0.6

Van Stone Flange Adapter

Carbon Steel raised face slip on flange, with stainless steel stub end

STYLE P565 (P × L)
Working pressure: 275 psi/1876 kPa



STYLE P565

Size		Dimensions - Inches/mm					Approx. Weight Each
Nominal Size Inches/mm	Actual Out. Dia. Inches/mm	W	X	Y	E to E	U Takeout	Lbs. kg
½ 15	0.840 21.3	1.38 35.0	2.38 60.5	3.50 88.9	3.37 85.6	2.30 58.4	2.4 1.1
¾ 20	1.050 26.7	1.69 42.9	2.75 69.9	3.88 98.6	3.29 83.6	2.22 56.4	2.5 1.1
1 25	1.315 33.4	2.00 50.8	3.12 79.3	4.25 108.0	3.45 87.6	2.26 57.4	3.0 1.4
1 ½ 40	1.900 48.3	2.88 73.2	3.88 98.6	5.00 127.0	3.61 91.7	2.22 56.4	4.1 1.9
2 50	2.375 60.3	3.62 92.0	4.75 120.7	6.00 152.4	4.55 115.6	2.92 74.2	6.8 3.1

Stainless Steel Pipe System

VIC-PRESS™ FOR SCHEDULE 10S TYPE 304 STAINLESS STEEL

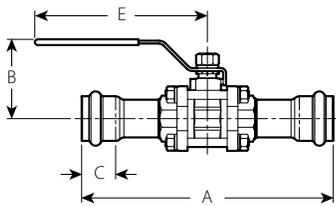
Vic-Press Schedule 10S Type 304 Stainless Steel Ball Valve

SERIES P569**Working pressure:** 400 psi/2750 kPa

Series P569 Vic-Press for Schedule 10S System Ball Valves with Type 316 ends feature full stainless steel body and trim, rated for service up to 400psi/2750kPa.

The valves are constructed of rugged Type 316 (CF8M) stainless steel with PTFE seats. The valves feature a blow-out proof stem and self-adjusting floating ball which provides uniform sealing. The full port design minimizes pressure drop for maximum flow efficiency. The three-piece swing-out design permits easy in-line maintenance.

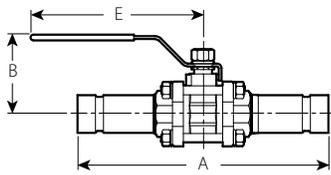
Vic-Press for Schedule 10S x Vic-Press Schedule 10S (P x P)



Size		Dimensions – Inches/mm				Approx. Weight Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A End to End	B	C	E	Lbs. kg
½ 15	0.840 21.3	8.26 209.8	2.17 55.1	1.06 26.9	5.24 133.1	1.5 0.7
¾ 20	1.050 26.7	8.36 212.3	2.32 58.9	1.06 26.9	5.24 133.1	2.4 1.1
1 25	1.315 33.4	8.77 222.8	2.76 70.1	1.19 30.2	6.02 152.9	3.6 1.6
1½ 40	1.900 48.3	9.76 247.9	3.31 84.1	1.38 35.1	7.52 191.0	6.9 3.1
2 50	2.375 60.3	9.83 249.7	3.62 91.9	1.63 41.4	7.52 191.0	9.5 4.3

For dimensions and weights with gear operator contact Victaulic.

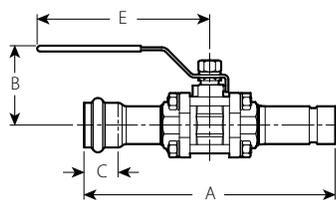
Groove x Groove (G x G)



Size		Dimensions – Inches/mm			Approx. Weight Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A End to End	B	E	Lbs. kg
¾ 20	1.050 26.7	8.54 216.9	2.32 58.9	5.24 133.1	2.4 1.1
1 25	1.315 33.4	8.75 222.3	2.76 70.1	6.02 152.9	3.6 1.6
1½ 40	1.900 48.3	10.90 276.9	3.31 84.1	7.52 191.0	6.9 3.1
2 50	2.375 60.3	12.11 307.6	3.62 91.9	7.52 191.0	9.5 4.3

For dimensions and weights with gear operator contact Victaulic.

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



Size		Dimensions – Inches/mm				Approx. Weight Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A End to End	B	C	E	Lbs. kg
¾ 20	1.050 26.7	8.44 214.4	2.32 58.9	1.06 26.9	5.24 133.1	2.4 1.1
1 25	1.315 33.4	8.76 222.5	2.76 70.1	1.19 30.2	6.02 152.9	3.6 1.6
1½ 40	1.900 48.3	10.32 262.1	3.31 84.1	1.38 35.1	7.52 191.0	6.9 3.1
2 50	2.375 60.3	10.92 277.4	3.62 91.9	1.63 41.4	7.52 191.0	9.5 4.3

For dimensions and weights with gear operator contact Victaulic.

Stainless Steel Pipe System

VIC-PRESS™ FOR SCHEDULE 10S TYPE 304 STAINLESS STEEL

SERIES 569 MATERIAL SPECIFICATIONS**Body:** Stainless steel, CF8M, ASTM A-351**Ball:** Stainless steel, CF8M, ASTM A-351**Stem:** Stainless steel, Type 316**Seats:** (PTFE) Polytetrafluoroethylene**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:** Stainless steel, Type 304**Cap:** Stainless steel, CF8M, ASTM A-351**Extended Ends:** Schedule 10S Stainless steel, Type 316**Specify end style:**

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

WARNING**WARNING**

- Vic-Press for Schedule 10S products for Type 304 stainless steel must only be used on services compatible with seal and fitting materials.
- Incompatible services may result in leakage. Always reference the latest Victaulic Gasket Selection Guide (05.01) for specific seal service recommendations and for a listing of services which are not recommended.

Stainless Steel Pipe System

VIC-PRESS™ FOR SCHEDULE 10S TYPE 304 STAINLESS STEEL

PERFORMANCE

FLOW CHARACTERISTICS

Flow testing for the Vic-Press Style P569 3-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 and 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 and K_v values:

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

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

where:

Flow Coefficient Q (Flow)	C_v GPM	K_v m ³ /hr
ΔP (Pressure Drop)	psi	bar

Size		Full Open
Nominal Size Inches mm	Actual Outside Diameter Inches mm	Flow Coefficient C_v K_v
½ 15	0.840 21.3	10 9
¾ 20	1.050 26.7	17 14
1 25	1.315 33.4	45 39
1½ 40	1.900 48.3	125 107
2 50	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 two seats, two gaskets, one stem seal and one thrust washer, all made of PTFE.

A replacement ball of CF8M stainless steel is also available.

For replacement stem information, contact Victaulic.

Size		Repair Kit	Replacement Ball
Nominal Size Inches mm	Actual Out. Dia. Inches mm	Part No.	Part No.
½ 15	0.840 21.3	K-004-569-001	K-004-569-000
¾ 20	1.050 26.7	K-006-569-001	K-006-569-000
1 25	1.315 33.4	K-010-569-001	K-010-569-000
1½ 40	1.900 48.3	K-014-569-001	K-014-569-000
2 50	2.375 60.3	K-020-569-001	K-020-569-000

WARNING



WARNING

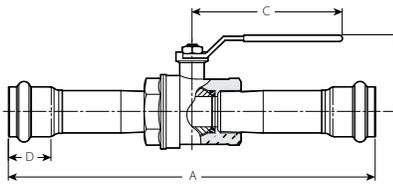
- It is the responsibility of designers of piping systems to verify the suitability of Schedule 10S, Type 304 stainless steel pipe for use with the intended fluid media. The fluid's chemical composition, pH level, operating temperature, chloride level, oxygen level and flow rate and their effect on AISI Type 304 stainless steel must be evaluated by the material specifier to confirm system life will be adequate for the intended service.

Failure to do so may cause serious personal injury or property damage.

Stainless Steel Pipe System

VIC-PRESS™ FOR SCHEDULE 10S TYPE 304 STAINLESS STEEL

Vic-Press Brass Body Ball Valve with Stainless Steel Vic-Press Schedule 10S Ends

SERIES P589 (P × P)**Working pressure:** 300 psi/2065 kPa

Series 589 Ball Valve is a full port valve with Vic-Press Schedule 10S ends for fast, easy installation. The valve, with Vic-Press Schedule 10S, ends is designed for service to 300 psi/ 2068 kPa.

The valve body is constructed from forged brass. The ball is chrome plated brass and seals on PTFE seats. A hollow ball design eliminates unnecessary weight while maintaining flow and mechanical strength. PTFE seats and washers reduce the friction coefficient which eases valve operation.

The Vic-Press Schedule 10S ends are of ASTM A-312 Type 304 stainless steel.

Size		Dimensions - Inches/mm				Approx. Weight Each	Flow Coefficient@ (Fully Open) CV Values KV Values
Nominal Size Inches mm	Actual Outside Diameter Inches/mm	A ± 0.125 3.18	B	C	D	Lbs. kg	
½ 15	0.840 21.3	9.030 229.36	1.42 36.1	3.03 77.0	1.06 26.9	1.0 0.5	11 9.4
¾ 20	1.050 26.7	9.120 234.65	1.90 48.3	3.74 95.0	1.06 26.9	1.6 0.7	25 21.3
1 25	1.315 33.4	10.108 256.74	2.05 52.1	3.74 95.0	1.19 30.2	2.8 1.3	36 30.7
1½ 40	1.900 48.3	11.180 283.97	2.76 70.1	5.40 137.2	1.38 35.1	4.7 2.1	112 95.5
2 50	2.375 60.3	12.690 322.33	3.15 80.0	5.40 137.2	1.63 41.4	6.9 3.1	195 166.3

@ C_v/K_v values for flow of water at +60°F/+16°C with valve fully open.

SERIES 589 MATERIAL SPECIFICATIONS

Valve Body: Forged Brass ASTM B-30

Ball: Brass ASTM B-30, chrome plated

Stem: Brass ASTM B-16

Seats: (PTFE) Polytetrafluoroethylene

Handle: Carbon steel, zinc plated

Stem Nut: Carbon steel, zinc plated

Stem Washer: (PTFE) Polytetrafluoroethylene

Extended Ends: Schedule 10S Stainless Steel, Type 304

Stainless Steel Pipe System

VIC-PRESS™ FOR SCHEDULE 10S TYPE 304 STAINLESS STEEL

WARNING



WARNING

- Vic-Press for Schedule 10S products for Type 304 stainless steel must only be used on services compatible with seal and fitting materials.
- Incompatible services may result in leakage. Always reference the latest Victaulic Gasket Selection Guide (05.01) for specific seal service recommendations and for a listing of services which are not recommended.

PIPE SUPPORT

Piping joined with Vic-Press Schedule 10S System products for Type 304 stainless steel, like all other piping systems, requires support to carry the weight of pipes and equipment. As for other methods of joining pipes, the support or hanging method must be such as to eliminate undue stresses on joints, piping and other components. Additionally, the method of support must be such as to allow movement of the pipes where required and to provide drainage, etc., as may be specified by the designer.

The maximum hanger spacing corresponds to ASME B31.1, B31.3 or B31.9 as noted, and should be used in conjunction with Victaulic Vic-Press Schedule 10S System products on approved Type 304 Schedule 10S stainless steel pipe.

Pipe Size		Suggested Max. Span Between Supports - Feet/meters					
Nominal Size Inches mm	Actual Out. Dia. Inches mm	Water Service			Gas/Air Service		
		B31.1	B31.3	B31.9	B31.1	B31.3	B31.9
½	0.840	6.5	6.5	7.0	7.0	7.0	7.5
15	21.3	2.0	2.0	2.1	2.1	2.1	2.3
¾	1.050	7.5	7.5	8.5	8.0	8.0	9.0
20	26.7	2.3	2.3	2.6	2.4	2.4	2.7
1	1.315	8.5	8.5	10.0	9.0	9.0	10.5
25	33.4	2.6	2.6	3.1	2.7	2.7	3.2
1½	1.900	10.0	10.0	12.5	11.0	11.0	13.5
40	48.3	3.1	3.1	3.8	3.6	3.6	4.1
2	2.375	11.0	11.0	13.0	12.5	12.5	15.5
50	60.3	3.6	3.6	4.0	3.8	3.8	4.7

Stainless Steel Pipe System

VIC-PRESS™ FOR SCHEDULE 10S TYPE 304 STAINLESS STEEL

Vic-Press Tool



PFT510

Vic-Press PFT510

- The PFT-510 Vic-Press tool is specifically designed to join Vic-Press components to Schedule 10S* stainless steel pipe.
* Can also be used for Schedule 5S pipe using Vic-Press components.
- Tool package includes one (1) Vic-Press PFT510 tool, two (2) 18V Lithium Ion batteries, one (1) battery charger, one (1) tool carrying case, one (1) jaw carrying case, one (1) ½"/15mm jaw, one (1) ¾"/20mm jaw, one (1) 1"/25mm jaw, one (1) 1½"/40mm hinged jaw, one (1) 2"/50mm hinged jaw, and one (1) adapter jaw, one (1) set of insertion gauges, one (1) cleaning brush, and one (1) marker.
- Jaws are included with every tool purchase.
- Vic-Press PFT510 is designed for industrial and trade use only

Capacity: ½"/15mm, ¾"/20mm, 1"/25mm, 1 ½"/40mm, 2"/50mm Sch10S stainless steel pipe

Power Charger Requirements: 110 volt/60 cycle/6.5 amp

Optional: 220 volt

Note: The Vic-Press for Schedule 10S System is not compatible with PFT505 and/or PFT509 tools/components. The Vic-Press Schedule 10S System requires the use of a Vic-Press FT510 tool package.

WARRANTY

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

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.

For complete contact information, visit www.victaulic.com

18.12 6390 REV E UPDATED 08/2012

VICTAULIC IS A REGISTERED TRADEMARK OF VICTAULIC COMPANY. © 2012 VICTAULIC COMPANY. ALL RIGHTS RESERVED.

18.12

