Groove Dimensions for Rubber Lining for corrosive services

RUBBER OR URETHANE LINED PIPE

Rubber or urethane lined pipe, connected with Victaulic couplings, has proven to be a most practical and economical method of conveying corrosive fluids and slurries, showing savings in maintenance cost over unlined metal pipe in such services. The use of rubberlined metal pipe combines the high-corrosive and abrasive-resistant properties of rubber or urethane with the rigidity and strength of metal.

Urethane or rubber-lined pipe is available with Victaulic grooved ends from leading companies in different types of linings for corrosive services. The type of lining selected for a particular operation is determined by the conditions under which the system will operate. Request publication 25.03 for use of rubber lined fittings on abrasive services.

Job/Owner

System No.	
Location	

Contractor

Submitted By	
Date	

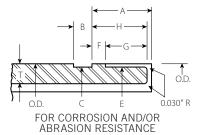
Engineer

Spec Section	
Paragraph	
Approved	
Date	









NOTE: Dimensions apply to steel pipe and Victaulic fittings. *Based on nominal dimensions

(without tolerances).

Column 1 - Nominal IPS Pipe Size. Nominal Metric (ISO) Pipe Size. Column 2 - IPS Outside Diameter. Metric (ISO) Outside Diameter. The outside diameter of cut grooved pipe shall not vary more than the tolerance listed. For IPS pipe, the maximum allowable tolerance from square cut ends is 0.030" for 2 - 3 ½"; 0.045" for 4 - 6"; and 0.060" for sizes 8" O.D. and above measured from true square line. For (ISO) metric pipe, the maximum allowable tolerance from square cut ends is 0,76 mm for sizes 20 - 80 mm; 1,14 mm for sizes 100 - 150 mm; and 1,52 mm for sizes 200 mm and above, measured from the true square line.

Column 3 - Gasket Seat. The pipe surface shall be free from indentations and projections from the end of the pipe to the groove, to provide a leak-tight seat for the gasket. All loose paint, scale, dirt, chips, grease, and rust must be removed. Rubber lining must be ground flush with pipe O.D. to a smooth finish for proper gasket seating. It continues to be Victaulic's recommendation that pipe be square cut. Beveled pipe may not be used. Gasket seat "A" is measured from the end of the rubber lining.

Column 4 - Groove Width. Bottom of groove to be free of loose dirt, chips, rust and scale that may interfere with proper coupling assembly. Maximum permissible radius at bottom of groove is 0.025" (0,64 mm).

Column 5 – Groove Diameter. The groove must be of uniform depth for the entire pipe circumference. Groove must be maintained within the "C" diameter tolerance listed.

Column 6 - Lead edge of groove to end of pipe after machining to allow rubber lining.

Column 7 – Diameter of undercut at the pipe end provided for lining overlap. (Corrosion and/ or abrasion only).

Column 8 - Metal thickness between groove and lining undercut. (This dimension must be maintained for proper

joint strength.) Column 9 – Length of undercut provided for lining overlap. (Corrosion and/

or abrasion only). For reference only. Dimension "F" must be maintained.

Installation

Reference should always be made to the I-100 Victaulic Field Installation Handbook for the product you are installing. Handbooks are included with each shipment of Victaulic products for 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.

1	2			:	3	4	4	5		6	7	8	9	10
				Dimensions - inches/millimeters										
Nominal Size	Pipe Outside Diameter inches mm			Gasket Seat A		Groove Width B		Groove Dia. C		н	E	F	G	т
inches mm	Basic	Tolerance		Basic	Tol. +.000 (+0.00)	Basic	Tol. +.000 (+0.00)	Basic	Tol. +.000 (+0.00)		(Mean Dia.)	+0.030 -0.000	(Ref.)	Min. Allow. Wall Thick.
1	1.315	+0.013	-0.013	0.562	-0.015	0.312	-0.015	1.190	-0.015	0.437	1.190	0.188	0.250	0.133
25	33.4	+0.33	-0.33	14.27	-0.76	7.92	-0.76	30.23	-0.38	11.10	30.23	4.78	6.35	3.38
1¼	1.660	+0.016	-0.013	0.562	-0.030	0.312	-0.030	1.535	-0.015	0.437	1.535	0.188	0.250	0.140
32	42.2	+0.41	-0.33	14.27	-0.76	7.92	-0.76	38.99	-0.38	11.10	38.99	4.78	6.35	3.56
1½	1.900	+0.019	-0.019	0.562	-0.030	0.312	-0.030	1.775	-0.015	0.437	1.775	0.188	0.250	0.145
40	48.3	+0.48	-0.48	14.27	-0.76	7.92	-0.76	45.09	-0.38	11.10	45.09	4.78	6.35	3.68
2	2.375	+0.024	-0.024	0.562	-0.030	0.312	-0.030	2.250	-0.015	0.437	2.250	0.188	0.250	0.154
50	60.3	+0.61	-0.61	14.27	-0.76	7.92	-0.76	57.15	-0.38	11.10	57.15	4.78	6.35	3.91
2½	2.875	+0.029	-0.029	0.562	-0.030	0.312	-0.030	2.720	-0.018	0.437	2.720	0.188	0.250	0.188
65	73.0	+0.74	-0.74	14.27	-0.76	7.92	-0.76	69.09	-0.46	11.10	69.09	4.78	6.35	4.78
3 O.D.	3.000	+0.030	-0.030	0.562	-0.030	0.312	-0.030	2.845	-0.018	0.437	2.845	0.188	0.250	0.188
	76.1	+0.76	-0.76	14.27	-0.76	7.92	-0.76	72.26	-0.46	11.10	72.26	4.78	6.35	4.78
3	3.500	+0.035	-0.031	0.562	-0.030	0.312	-0.030	3.344	-0.018	0.437	3.344	0.188	0.250	0.188
80	88.9	+0.89	-0.79	14.27	-0.76	7.92	-0.76	84.94	-0.46	11.10	84.94	4.78	6.35	4.78
3½	4.000	+0.040	-0.031	0.562	-0.030	0.312	-0.030	3.834	-0.020	0.437	3.834	0.188	0.250	0.188
90	101.6	+1.02	-0.79	14.27	-0.76	7.92	-0.76	97.38	-0.51	11.10	97.38	4.78	6.35	4.78
4	4.500	+0.045	-0.031	0.562	-0.030	0.344	-0.030	4.334	-0.020	0.437	4.334	0.188	0.250	0.203
100	114.3	+1.14	-0.79	14.27	-0.76	8.73	-0.76	110.08	-0.51	11.10	110.08	4.78	6.35	5.16
5	5.563	+0.056	-0.031	0.562	-0.030	0.344	-0.030	5.395	-0.022	0.437	5.395	0.188	0.250	0.203
125	141.3	+1.42	-0.79	14.27	-0.76	8.73	-0.76	137.03	-0.56	11.10	137.03	4.78	6.35	5.16
6½ O.D.	6.500	+0.063	-0.031	0.562	-0.030	0.344	-0.030	6.330	-0.022	0.437	6.330	0.188	0.250	0.219
	165.1	+1.60	-0.79	14.27	-0.76	8.73	-0.76	160.78	-0.56	11.10	160.78	4.78	6.35	5.56
6	6.625	+0.063	-0.031	0.562	-0.030	0.344	-0.030	6.455	-0.022	0.437	6.455	0.188	0.250	0.219
150	168.3	+1.60	-0.79	14.27	-0.76	8.73	-0.76	163.96	-0.56	11.10	163.96	4.78	6.35	5.56
8	8.625	+0.063	-0.031	0.625	-0.030	0.469	-0.030	8.441	-0.025	0.500	8.441	0.219	0.281	0.238
200	219.1	+1.60	-0.79	15.88	-0.76	11.91	-0.76	214.40	-0.64	12.70	214.40	5.56	7.14	6.05
10	10.750	+0.063	-0.031	0.625	-0.030	0.469	-0.030	10.562	-0.027	0.500	10.562	0.219	0.281	0.250
250	273.0	+1.60	-0.79	15.88	-0.76	11.91	-0.76	268.28	-0.69	12.70	268.28	5.56	7.14	6.35
12	12.750	+0.063	-0.031	0.625	-0.030	0.469	-0.030	12.531	-0.030	0.500	12.531	0.219	0.281	0.279
300	323.9	+1.60	-0,79	15.88	-0.76	11.91	-0.76	318.29	-0.76	12.70	318.29	5.56	7.14	7.09
14	14.000	+0.063	-0.031	0.938	-0.030	0.500	-0.030	13.781	-0.030	0.813	13.781	0.344	0.469	0.281
350	355.6	+1.60	-0.79	23.83	-0.76	12.70	-0.76	350.04	-0.76	20.65	350.04	8.74	11.91	7.14
16	16.000	+0.063	-0.031	0.938	-0.030	0.500	-0.030	15.781	-0.030	0.813	15.781	0.344	0.469	0.312
400	406.4	+1.60	-0.79	23.83	-0.76	12.70	-0.76	400.84	-0.76	20.65	400.84	8.74	11.91	7.92
18	18.000	+0.063	-0.031	1.000	-0.030	0.500	-0.030		-0.030	0.875	17.781	0.344	0.531	0.312
450	457.2	+1.60	-0.79	25.40	-0.76	12.70	-0.76		-0.76	22.23	451.64	8.74	13.49	7.92
20	20.000	+0.063	-0.031	1.000	-0.030	0.500	-0.030	19.781	-0.030	0.875	19.781	0.344	0.531	0.312
500	508.0	+1.60	-0.79	25.40	-0.76	12.70	-0.76	502.44	-0.76	22.23	502.44	8.74	13.49	7.92
22	22.000	+0.063	-0.031	1.000	-0.060	0.500		21.656	-0.030	0.875	21.656	0.344	0.531	0.375
550	559.0	+1.60	-0.79	25.40	-1.52	12.70		550.06	-0.76	22.23	550.06	8.74	13.49	9.53
24	24.000	+0.063	-0.031	1.000	-0.060	0.500	-0.030	23.656	-0.030	0.875	23.656	0.344	0.531	0.375
600	610.0	+1.60	-0.79	25.40	-1.52	12.70	-0.76	600.86	-0.76	22.23	600.86	8.74	13.49	9.53

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.

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