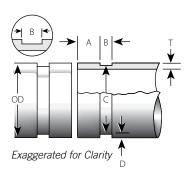
DESIGNED FOR STANDARD OR HEAVIER WALL THICKNESS PIPE OR PLASTIC-COATED JOINED WITH HP-70ES COUPLINGS.

#### "ES" Cut Groove Specifications †



1		2		3		4		5		6	7	
		Pipe Outside Dia.		Dimensions – Inches/millimeters								
Pipe Size		Inches/mm		Gasket Seat A		Groove Width B		Groove Dia. C				
Nominal Dia. Inches mm	Actual Out. Dia. Inches mm	Tolei +	ance –	Basic	Tol.	Basic	Tol. +0.010 +0.25	Basic	Tol. +0.000 +0.00	Groove Depth (ref.) D	Min. Allow. Wall Thick. T	
2	2.375	+0.024	-0.024	0.562	±0.010	0.255	-0.005	2.250	-0.015	0.063	0.154	
50	60.3	+0.61	-0.58	14.27	±0.25	6.48	-0.13	57.15	-0.38	1.60	3.91	
2 ½	2.875	+0.029	-0.029	0.562	±0.010	0.255	-0.005	2.720	-0.018	0.078	0.188	
65	73.0	+0.74	-0.71	14.27	±0.25	6.48	-0.13	69.09	-0.46	1.98	4.78	
3	3.500	+0.035	-0.031	0.562	±0.010	0.255	-0.005	3.344	-0.018	0.078	0.188	
80	88.9	+0.89	-0.79	14.27	±0.25	6.48	-0.13	84.94	-0.46	1.98	4.78	
4	4.500	+0.045	-0.031	0.605	±0.015	0.305	-0.005	4.334	-0.020	0.083	0.203	
100	114.3	+1.14	-0.79	15.37	±0.38	7.75	-0.13	110.08	-0.51	2.11	5.16	
6	6.625	+0.063	-0.031	0.605	±0.015	0.305	-0.005	6.455	-0.022	0.085	0.219	
150	168.3	+1.60	-0.79	15.37	±0.38	7.75	-0.13	163.96	-0.56	2.16	5.56	
8	8.625	+0.063	-0.031	0.714	±0.015	0.400	-0.010	8.441	-0.025	0.092	0.238	
200	219.1	+1.60	-0.79	18.14	±0.38	10.16	-0.25	214.40	-0.64	2.34	6.05	
10	10.750	+0.063	-0.031	0.714	±0.015	0.400	-0.010	10.562	-0.027	0.094	0.250	
250	273.0	+1.60	-0.79	18.14	±0.38	10.16	-0.25	268.28	-0.69	2.39	6.35	
12	12.750	+0.063	-0.031	0.714	±0.015	0.400	-0.010	12.531	-0.030	0.109	0.279	
300	323.9	+1.60	-0.79	18.14	±0.38	10.16	-0.25	318.29	-0.76	2.77	7.09	

+ Coatings applied to the interior surfaces. including bolt pad mating surfaces. of our bolted grooved and bolted plain end couplings should not exceed 0.010" (0.25 mm). Also. the coating thickness applied to the gasket seating surface and within the groove on the pipe exterior should not exceed 0.010" (0.25 mm). **NOTES:** 

COLUMN 1 - Nominal IPS pipe size. Nominal metric (ISO) pipe size.

COLUMN 2 – IPS outside diameter. Metric (ISO) outside diameter. The outside diameter of roll 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  $\frac{3}{4} - \frac{3}{2}$ " (20 – 90 mm); 0.045" for 4 – 6" (100 – 150 mm); and 0.060" for sizes 203.2 mm 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 mm – 80 mm; 1.14 mm for sizes 100 mm – 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, roll marks, and projections from the end of the pipe to the groove, to provide a leak-tight seal for the gasket. All loose paint, scale, dirt, chips, grease and rust must be removed. Square cut pipe must be used with FlushSeal® and End-Seal® gaskets. Gasket seat "A" is measured from the end of the pipe.

COLUMN 4 – Groove width: bottom of groove to be free of loose dirt. chips. rust and scale that may interfere with proper coupling assembly. Corners at bottom of roll groove must be radiused. For IPS pipe, 0.04R on  $1\frac{1}{2} - 12$ " (40 – 300 mm). For (ISO) metric pipe, 1.2R mm on 20 – 300 mm.

COLUMN 5 – Groove outside diameter: the groove must be uniform depth for the entire pipe circumference. Groove must be maintained within the "C" diameter tolerance listed.

COLUMN 6 – Groove depth: for reference only. Groove must conform to the groove diameter "C" listed.

COLUMN 7 – Minimum allowable wall thickness: this is the minimum wall thickness which may be grooved. COLUMN 8 – Maximum allowable end flare diameter. Measured at the most extreme pipe end diameter square cut or beveled.

#### JOB/OWNER

System No.\_\_\_\_\_

#### CONTRACTOR

Date

Submitted By \_\_\_\_\_

### ENGINEER

Spec Sect \_\_\_\_\_ Para \_\_\_\_\_ Approved \_\_\_\_\_

Date

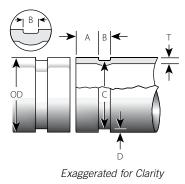
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"ES" Roll Groove Specifications †



1		2		3		4		5		6	7	
		Pipe Outside Dia.		Dimensions – Inches/millimeters								
Pipe Size		Inches/mm		Gasket Seat A		Groove Width B		Groove Dia. C				
Nominal Dia. Inches mm	Actual Out. Dia. Inches mm	Toler +	rance –	Basic	Tol.	Basic	Tol. +0.000 +0.00	Basic	Tol. +0.000 +0.00	Groove Depth (ref.) D	Min. Allow. Wall Thick. T	Max. Allow. Flare Dia.
2	2.375	+0.024	-0.024	0.572	-0.020	0.250	+0.015	2.250	-0.015	0.063	0.065	2.48
50	60.3	+0.61	-0.61	14.53	-0.51	6.35	+0.38	57.15	-0.38	1.60	1.65	63.0
2 ½	2.875	+0.029	-0.029	0.572	-0.020	0.250	+0.015	2.720	-0.018	0.078	0.083	2.98
65	73.0	+0.74	-0.74	14.53	-0.51	6.35	+0.38	69.09	-0.46	1.98	2.11	75.7
3	3.500	+0.035	-0.031	0.572	-0.020	0.250	+0.015	3.344	-0.018	0.083	0.083	3.60
80	88.9	+0.89	-0.79	14.53	-0.51	6.35	+0.38	84.94	-0.46	2.11	2.11	91.4
4	4.500	+0.045	-0.031	0.610	-0.020	0.300	+0.020	4.334	-0.020	0.083	0.083	4.60
100	114.3	+1.14	-0.79	15.49	-0.51	7.62	+0.51	110.08	-0.51	2.11	2.11	116.8
6	6.625	+0.063	-0.031	0.610	-0.020	0.300	+0.020	6.455	-0.022	0.085	0.109	6.73
150	168.3	+1.60	-0.79	15.49	-0.51	7.62	+0.51	163.96	-0.56	2.16	2.77	170.9
8	8.625	+0.063	-0.031	0.719	-0.020	0.390	+0.020	8.441	-0.025	0.092	0.109	8.80
200	219.1	+1.60	-0.79	18.26	-0.51	9.91	+0.51	214.40	-0.64	2.34	2.77	223.5
10	10.750	+0.063	-0.031	0.719	-0.020	0.390	+0.020	10.562	-0.027	0.094	0.134	10.92
250	273.0	+1.60	-0.79	18.26	-0.51	9.91	+0.51	268.28	-0.69	2.39	3.40	277.4
12	12.750	+0.063	-0.031	0.719	-0.020	0.390	+0.020	12.531	-0.030	0.109	0.156	12.92
300	323.9	+1.60	-0.79	18.26	-0.51	9.91	+0.51	318.29	-0.76	2.77	3.96	328.2

<sup>+</sup> Coatings applied to the interior surfaces. including bolt pad mating surfaces. of our bolted grooved and bolted plain end couplings should not exceed 0.010" (0.25 mm). Also, the coating thickness applied to the gasket seating surface and within the groove on the pipe exterior should not exceed 0.010" (0.25 mm). **NOTES:** 

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COLUMN 6 – Groove depth: for reference only. Groove must conform to the groove diameter "C" listed.

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COLUMN 8 – Maximum allowable end flare diameter. Measured at the most extreme pipe end diameter square cut or beveled.



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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.
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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