

VENTURI FLANGES

For Solving
Turbulence and
Noise Problems

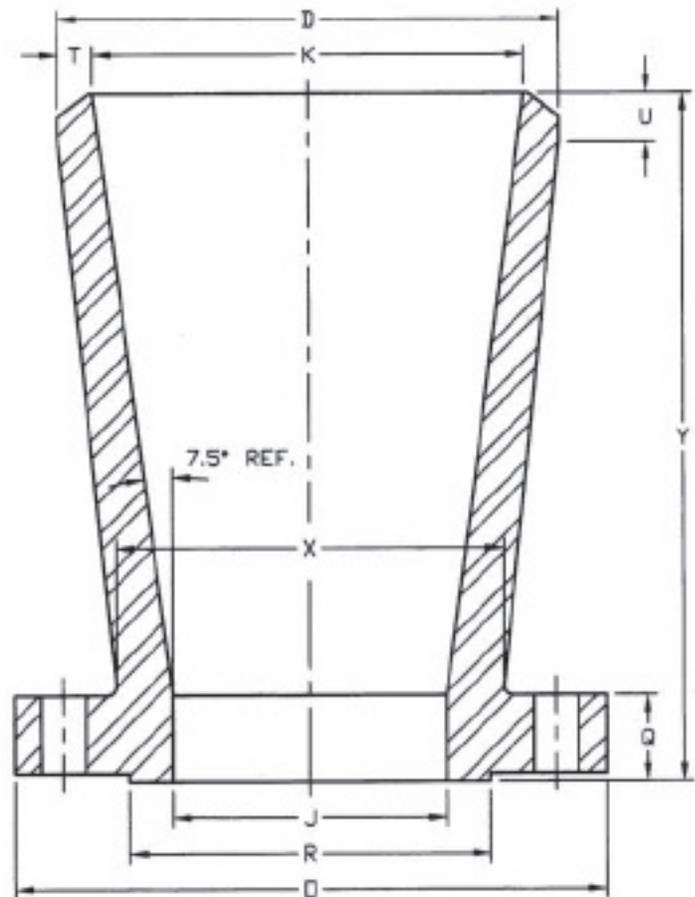


VENTURI FLANGES

The VENTURI EXPANDER FLANGE is a one-piece forged integral flange and Venturi cone. It has all the advantages of the Tube Turns regular Expander Flanges plus the advantage of a controlled angle of reduction (15° maximum) on the inside for optimum flow. This reduces turbulence and noise levels.

SPECIFICATIONS

Venturi Flanges are regularly available in sizes $2" \times 3"$ through $24" \times 30"$ and in classes 150, 300 and 600 corresponding with ratings given in ASME/ANSI B16.5. Other sizes are furnished on special order. Standard material for Venturi Flanges is A105 carbon steel. They can be furnished in stainless steel, aluminum and other alloys, and for all service pressure ratings, as well as for matching high yield pipe.



NOM PIPE SIZE	DIA OF HUB AT BEVEL D	WALL THICKNESS T	OUTSIDE DIA OF FLANGE O	DIA OF BORE J	DIA OF BORE K	DIA OF HUB AT BASE X	THICKNESS OF FLANGE Q*	LENGTH THRU HUB Y*	DIA OF RAISED FACE R	TANGENT LENGTH U	BOLT CIRCLE DIA	NO. OF BOLT HOLES	BOLT HOLE DIA
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CLASS 150													
2x 3	3.50	.216	6.00	2.07	3.068	3.06	0.75	4.56	3.62	0.50	4.75	4	0.75
2x 4	4.50	.237	6.00	2.07	4.026	3.06	0.75	6.25	3.62	0.50	4.75	4	0.75
3x 4	4.50	.237	7.50	3.07	4.026	4.25	0.94	4.62	5.00	0.50	6.00	4	0.75
4x 6	6.62	.280	9.00	4.03	6.065	5.31	0.94	6.69	6.19	0.50	7.50	8	0.75
6x 8	8.62	.322	11.00	6.07	7.981	7.56	1.00	8.31	8.50	0.50	9.50	8	0.88
8x10	10.75	.365	13.50	7.98	10.020	6.69	1.12	8.88	10.62	0.50	11.75	8	0.88
8x12	12.75	.375	13.50	7.98	12.00	9.69	1.12	16.44	10.62	0.62	11.75	8	0.88
10x12	12.75	.375	16.00	10.02	12.00	12.00	1.19	8.75	12.75	0.62	14.25	12	1.00
10x14	14.00	.375	16.00	10.02	13.25	12.00	1.19	13.50	12.75	0.62	14.25	12	1.00
12x14	14.00	.375	19.00	12.00	13.25	14.38	1.25	6.00	15.00	0.62	17.00	12	1.00
12x16	16.00	.375	19.00	12.00	15.25	14.38	1.25	13.62	15.00	0.62	17.00	12	1.00
14x16	16.00	.375	21.00	13.25	15.25	15.75	1.38	9.00	16.25	0.62	18.75	12	1.12
14x18	18.00	.375	21.00	13.25	17.25	15.75	1.38	16.62	16.25	0.62	18.75	12	1.12
18x20	20.00	.375	25.00	17.25	19.25	19.88	1.56	9.19	21.00	0.62	22.75	16	1.25
18x24	24.00	.375	25.00	17.25	23.25	19.88	1.56	24.38	21.00	0.62	22.75	16	1.25
20x24	24.00	.375	27.50	19.25	23.25	22.00	1.69	16.94	23.00	0.62	25.00	20	1.25
24x30	30.00	.375	32.00	23.25	29.25	26.12	1.88	24.69	27.25	0.75	29.50	20	1.38

CLASS 300													
2x 3	3.50	.216	6.50	2.07	3.068	3.31	0.88	4.69	3.62	0.50	5.00	8	0.75
2x 4	4.50	.237	6.50	2.07	4.026	3.31	0.88	8.38	3.62	0.50	5.00	8	0.75
3x 4	4.50	.237	8.25	3.07	4.026	4.62	1.12	4.81	5.00	0.50	6.62	8	0.88
4x 6	6.62	.280	10.00	4.03	6.065	5.75	1.25	9.00	6.19	0.50	7.88	8	0.88
6x 8	8.62	.322	12.50	6.07	7.981	8.12	1.44	8.75	8.50	0.50	10.62	12	0.88
8x10	10.75	.365	15.00	7.98	10.02	10.25	1.62	9.38	10.62	0.50	13.00	12	1.00
10x12	12.75	.375	17.50	10.02	12.00	12.62	1.88	9.44	12.75	0.62	15.25	16	1.12
12x14	14.00	.375	20.50	12.00	13.25	14.75	2.00	6.75	15.00	0.62	17.75	16	1.25
14x16	16.00	.375	23.00	13.25	15.25	16.75	2.12	9.75	16.25	0.62	20.25	20	1.25
16x18	18.00	.375	25.50	15.25	17.25	19.00	2.25	9.88	18.50	0.62	22.50	20	1.38
18x20	20.00	.375	28.00	17.25	19.25	21.00	2.38	10.00	21.00	0.62	24.75	24	1.38
20x24	24.00	.375	30.50	19.25	23.25	23.12	2.50	17.75	23.00	0.62	27.00	24	1.38
24x30	30.00	.625	36.00	23.25	29.75	27.62	2.75	23.69	27.25	0.75	32.00	24	1.6

CLASS 600													
2x 3	3.50	.300	6.50	1.94	2.90	3.31	1.00	4.69	3.62	0.50	5.00	8	0.75
2x 4	4.50	.337	6.50	1.94	3.826	3.31	1.00	8.19	3.62	0.50	5.00	8	0.75
3x 4	4.50	.337	8.25	2.90	3.826	4.62	1.25	4.81	5.00	0.50	6.62	8	0.88
4x 6	6.62	.432	10.75	3.83	5.761	6.00	1.50	8.88	6.19	0.62	8.50	8	1.00
6x 8	8.62	.500	14.00	5.76	7.625	8.75	1.88	9.00	8.50	0.62	11.50	12	1.12
8x10	10.75	.500	16.50	7.63	9.75	10.75	2.19	10.31	10.62	0.62	13.75	12	1.25
10x12	12.75	.500	20.00	9.75	11.75	13.50	2.50	10.12	12.75	0.62	17.00	16	1.38
12x14	14.00	.500	22.00	11.75	13.00	15.75	2.62	7.38	15.00	0.62	19.25	20	1.38
14x16	16.00	.562	23.75	13.00	14.875	17.00	2.75	9.88	16.25	0.75	20.75	20	1.50
16x18	18.00	.625	27.00	14.88	16.75	19.50	3.00	10.12	18.50	0.75	23.75	20	1.62
18x20	20.00	.688	29.25	16.75	18.625	21.50	3.25	10.38	21.00	0.88	25.75	20	1.75
20x24	24.00	.812	32.00	18.62	22.375	24.00	3.50	17.75	23.00	1.00	28.50	24	1.75
24x30	30.00	1.000	37.00	22.38	29.00	28.25	4.00	25.38	27.25	1.00	33.00	24	2.00

* Includes 0.06" raised face for Class 150 and Class 300.
Does not include 0.25" raised face for Class 600.

The overall lengths listed here are for bores shown above.
The overall length may vary for other bores.



CSA Piping Solutions
#208 6051b 47 Street
Leduc, Alberta
T9E-7A5

Phone: 780-980-9666
Fax: 780-980-9688

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