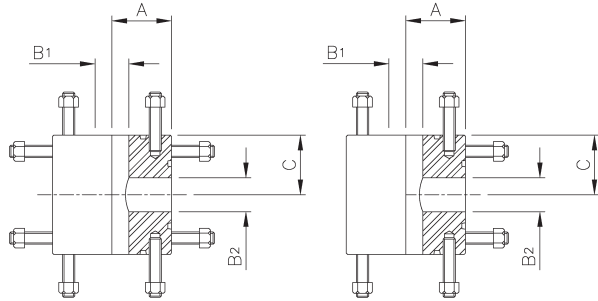


## API STUDDED CROSSES AND TEES



RATED WORKING PRESSURE (psi)	NOMINAL SIZE AND BORE		CENTRE TO FACE, VERTICAL RUN C [inches] + .03, -0	CENTRE TO FACE, HORIZONTAL RUN A [inches] + .03, -0
	VERTICAL B1	HORIZONTAL B2		
	[inches] + .03, -0	[inches] + .03, -0		
2,000	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	3.50	3.50
	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	3.50	4.00
	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	4.50	4.50
	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>6</sub>	3.50	4.50
	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>6</sub>	4.50	4.50
	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	4.50	4.50
	4 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	4.50	5.50
	4 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	4.50	5.50
	4 <sup>1</sup> / <sub>6</sub>	3 <sup>1</sup> / <sub>8</sub>	4.50	5.50
	4 <sup>1</sup> / <sub>6</sub>	4 <sup>1</sup> / <sub>6</sub>	5.50	5.50
3,000	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>6</sub>	4.50	5.00
	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>6</sub>	5.00	5.00
	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	5.00	5.00
	4 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	4.50	6.12
	4 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	5.00	6.12
	4 <sup>1</sup> / <sub>6</sub>	3 <sup>1</sup> / <sub>8</sub>	5.00	6.12
	4 <sup>1</sup> / <sub>6</sub>	4 <sup>1</sup> / <sub>6</sub>	6.12	6.12
5,000	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	4.50	4.50
	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	4.50	5.00
	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	5.00	5.00
	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>6</sub>	4.50	5.50
	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>6</sub>	5.50	5.50
	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	5.50	5.50
	4 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	4.50	6.50
	4 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	5.00	6.50
	4 <sup>1</sup> / <sub>6</sub>	3 <sup>1</sup> / <sub>8</sub>	5.50	6.50
	4 <sup>1</sup> / <sub>6</sub>	4 <sup>1</sup> / <sub>6</sub>	6.50	6.50
10 000	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	4.38	4.38
	2 <sup>1</sup> / <sub>6</sub>	1 <sup>1</sup> / <sub>2</sub>	4.38	4.38
	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	4.38	4.38
	2 <sup>1</sup> / <sub>6</sub>	1 <sup>1</sup> / <sub>2</sub>	4.50	5.12
	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	4.50	5.12

GENERAL NOTES: Dimensions are in inches

RATED WORKING PRESSURE (psi)	NOMINAL SIZE AND BORE		CENTRE TO FACE, VERTICAL RUN C [inches] + .03, -0	CENTRE TO FACE, HORIZONTAL RUN A [inches] + .03, -0
	VERTICAL B1	HORIZONTAL B2		
	[inches] + .03, -0	[inches] + .03, -0		
10 000	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	5.12	5.12
	3 <sup>1</sup> / <sub>6</sub>	1 <sup>1</sup> / <sub>2</sub>	4.50	5.88
	3 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	4.50	5.88
	3 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	5.12	5.88
	3 <sup>1</sup> / <sub>6</sub>	3 <sup>1</sup> / <sub>6</sub>	5.88	5.88
	4 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	4.50	6.88
	4 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>6</sub>	4.50	6.88
	4 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	5.12	6.88
	4 <sup>1</sup> / <sub>6</sub>	3 <sup>1</sup> / <sub>6</sub>	5.88	6.88
15 000	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	5.00	5.00
	2 <sup>1</sup> / <sub>6</sub>	1 <sup>1</sup> / <sub>2</sub>	5.00	5.00
	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	5.00	5.00
	2 <sup>1</sup> / <sub>6</sub>	1 <sup>1</sup> / <sub>2</sub>	5.50	5.50
	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	5.50	5.50
	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	5.50	5.50
	3 <sup>1</sup> / <sub>6</sub>	1 <sup>1</sup> / <sub>2</sub>	6.31	6.31
	3 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	6.31	6.31
	3 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	6.31	6.31
	4 <sup>1</sup> / <sub>6</sub>	1 <sup>1</sup> / <sub>2</sub>	7.62	7.62
	4 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	7.62	7.62
	4 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	7.62	7.62
	4 <sup>1</sup> / <sub>6</sub>	3 <sup>1</sup> / <sub>6</sub>	7.62	7.62
	4 <sup>1</sup> / <sub>6</sub>	4 <sup>1</sup> / <sub>6</sub>	7.62	7.62
20 000	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	6.47	6.47
	2 <sup>1</sup> / <sub>6</sub>	1 <sup>1</sup> / <sub>2</sub>	6.47	6.47
	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	6.47	6.47
	2 <sup>1</sup> / <sub>6</sub>	1 <sup>1</sup> / <sub>2</sub>	7.28	7.28
	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	7.28	7.28
	2 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	7.28	7.28
	3 <sup>1</sup> / <sub>6</sub>	1 <sup>1</sup> / <sub>2</sub>	7.97	7.97
	3 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	7.97	7.97
	3 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	7.97	7.97
	3 <sup>1</sup> / <sub>6</sub>	3 <sup>1</sup> / <sub>6</sub>	7.97	7.97
	4 <sup>1</sup> / <sub>6</sub>	1 <sup>1</sup> / <sub>2</sub>	9.91	9.91
	4 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	9.91	9.91
	4 <sup>1</sup> / <sub>6</sub>	2 <sup>1</sup> / <sub>6</sub>	9.91	9.91
	4 <sup>1</sup> / <sub>6</sub>	3 <sup>1</sup> / <sub>6</sub>	9.91	9.91
4 <sup>1</sup> / <sub>6</sub>	4 <sup>1</sup> / <sub>6</sub>	9.91	9.91	