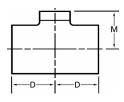
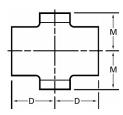
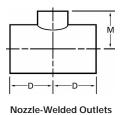
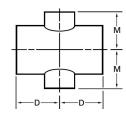
## Reducing Tees and Crosses



**Drawn Outlets** 







- Available in either the "as welded" or "annealed" condition as described more fully under smooth flow elbows on page 6.
- Alloys stocked include Types 304, 304L, 316, 316L and 317L. However, reducing tees and crosses can normally be produced in any weldable corrosion resistant alloy.
- Non-standard sizes and dimensions are available.
- ID size rducing tees and crosses are available.

Nominal					Outside Diameter						
Pipe :	Size				Run				Outlet	D	М
<sup>3</sup> / <sub>4</sub>	Χ	3/4	Χ	1/2	1.05	Χ	1.05	Χ	.840	1 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>
1	Χ	1	Χ	3/4	1.31	Χ	1.31	Χ	1.05	1 1/2	1 1/2
			Χ	1/2				Χ	.840	1 1/2	1 1/2
1 1/4	Χ	1 1/4	Χ	1	1.66	Χ	1.66	Χ	1.31	1 <sup>7</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>
			Χ	3/4				Χ	1.05	1 <sup>7</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>
			Χ	1/2				Χ	.840	1 7/8	1 <sup>7</sup> / <sub>8</sub>
1 1/2	Χ	1 1/2	Χ	1 1/4	1.90	Χ	1.90	Χ	1.66	2 1/4	2 1/4
			Χ	1				Χ	1.31	2 1/4	2 1/4
			Χ	3/4				Χ	1.05	2 1/4	2 1/4
			Χ	1/2				Χ	.840	2 1/4	2 1/4
					2	Χ	2	Χ	1 1/2	2 1/2	2 3/8
								Χ	1 1/4	2 1/2	2 1/4
								Χ	1	2 1/2	2
2	Χ	2	Χ	1 1/2	2 3/8	Χ	2 3/8	Χ	1.90	2 1/2	2 3/8
			Χ	1 1/4	-			Χ	1.66	2 1/2	2 1/4
			Χ	1				Χ	1.31	2 1/2	2
					2 1/2	Χ	2 1/2	Χ	2	3	2 3/4
								Χ	1 1/2	3	2 5/8
								Χ	1 1/4	3	2 1/2
2 1/2	Χ	2 1/2	Χ	2	2 7/8	Χ	2 7/8	Χ	2 3/8	3	2 3/4
			Χ	1 1/2				Χ	1.90	3	2 5/8
			Χ	1 1/4				Χ	1.66	3	2 1/2
					3	Χ	3	Χ	2 1/2	3 3/8	3 1/4
								Χ	2	3 3/8	3
								Χ	1 1/2	3 3/8	2 7/8
								Χ	1 1/8	3 3/8	2 3/4
3	Χ	3	Χ	2 1/2	3 1/2	Χ	3 1/2	Χ	2 7/8	3 3/8	3 1/4
			Χ	2				Χ	2 3/8	3 3/8	3
			Χ	1 1/2				Χ	1.90	3 3/8	2 7/8
			Χ	1				Χ	1.66	3 3/8	2 3/4
					4	Χ	4	Χ	3	4 1/8	3 7/8
								Χ	2 1/2	4 1/8	3 3/4
								Χ	2	4 <sup>1</sup> / <sub>8</sub>	3 1/2
									1 1/2	4 1/8	3 3/8

Nominal						le Di	ameter				
Pipe Size			Run				Outlet	D	M		
4	Χ	4	Χ	3	$4^{-1}/_{2}$	Χ	$4^{1}/_{2}$	Χ	3 1/2	4 1/8	3 <sup>7</sup> / <sub>8</sub>
			Χ	21/2				Χ	2 7/8	4 1/8	3 3/4
			Χ	2				Χ	2 3/8	4 1/8	3 1/2
			Χ	1 1/2				Χ	1.90	4 1/8	3 3/8
					5	Χ	5	Χ	4	4 <sup>7</sup> / <sub>8</sub>	4 5/8
								Χ	3	4 7/8	4 3/8
								Χ	2 1/2	4 <sup>7</sup> / <sub>8</sub>	4 1/4
								Χ	2	4 7/8	4 1/8
5	Χ	5	Χ	4	5 <sup>9</sup> / <sub>16</sub>	Χ	5 <sup>9</sup> / <sub>16</sub>	Χ	4 1/2	4 7/8	4 <sup>5</sup> / <sub>8</sub>
			Χ	3				Χ	3 1/2	4 7/8	4 3/8
			Χ	2 1/2				Χ	2 7/8	4 7/8	4 1/4
			Χ	2				Χ	2 3/8	4 <sup>7</sup> / <sub>8</sub>	4 1/8
					6	Χ	6	Χ	5	5 <sup>5</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>
								Χ	4	5 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>
								Χ	3	5 <sup>5</sup> / <sub>8</sub>	4 7/8
								Χ	2 1/2	5 <sup>5</sup> / <sub>8</sub>	4 3/4
6	Χ	6	Χ	5	6 <sup>5</sup> / <sub>8</sub>	Χ	6 <sup>5</sup> / <sub>8</sub>	Χ	5 <sup>9</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>
			Χ	4				Χ	4 1/2	5 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>
			Χ	3				Χ	3 1/2	5 <sup>5</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>8</sub>
			Χ	2 1/2				Χ	2 7/8	5 <sup>5</sup> / <sub>8</sub>	4 3/4
					8	Χ	8	Χ	6	7	6 <sup>5</sup> / <sub>8</sub>
								Χ	5	7	6 <sup>3</sup> / <sub>8</sub>
								Χ	4	7	6 <sup>1</sup> / <sub>8</sub>
								Χ	3	7	5 <sup>7</sup> / <sub>8</sub>
8	Χ	8	Χ	6	8 <sup>5</sup> / <sub>8</sub>	Χ	8 5/8	Χ	6 <sup>5</sup> / <sub>8</sub>	7	6 <sup>5</sup> / <sub>8</sub>
			Χ	5				Χ	5 <sup>9</sup> / <sub>16</sub>	7	6 3/8
			Χ	4				Χ	4 1/2	7	6 1/8
			Χ	3				Χ	3 1/2	7	5 <sup>7</sup> / <sub>8</sub>
					10	Χ	10	Χ	8	8 1/2	8
								Χ	6	8 1/2	7 <sup>5</sup> / <sub>8</sub>
								Χ	5	8 1/2	7 1/2
								Χ	4	8 1/2	7 1/4
10	Χ	10	Χ	8	10 3/4	Χ	10 3/4	Χ	8 5/8	8 1/2	8
			Χ	6				Χ	6 <sup>5</sup> / <sub>8</sub>	8 1/2	7 <sup>5</sup> / <sub>8</sub>
			Χ	5				Χ	5 <sup>9</sup> / <sub>16</sub>	8 1/2	7 1/2
			Χ	4				Χ	4 1/2	8 1/2	7 1/4

Dimensions are per ANSI B16.9 and are listed in inches.