

## Elbows, Schedule ASTM

**Manufacturing Standards:** Welding components are manufactured according to ASTM-403WP-S (ANSI B 16.9) standards.

**Grade:** Austenitic series 304 - L, 316-L

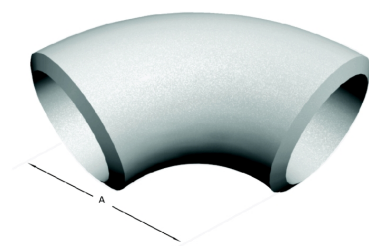
**Finish:** Standard finish L / C

**Dimensions:** Diameters from 1 / 4 " to 24".

**Certificates:** Product certificates provide if required, according to the following standard: EN 10204/3.1.B or DIN 50049.

**Tolerances:** Allowable differences in diameter and eccentricity + - 1.0% and thickness + - 12.55%

**Applications:** ASTM tubes are used in industrial environments with extreme temperatures and exposure to corrosive agents. Also used in equipment: heaters, heat exchangers and reactors, such as in the conduction of acid in the petrochemical, oil and food processing industries.



### Technical information

DN Pulgadas	Dimensiones					Calidades AISI	
	Schedule	Ø D	Espesor	R	Peso	304-L	316-L
1/2"	10S	21.3	2.11	38.1	0.06	x	x
1/2"	40S	21.3	2.77	38.1	0.08	x	x
1/2"	80S	21.3	3.73	38.1	0.1	*	*
3/4"	10S	26.7	2.11	38.1	0.07	x	x
3/4"	40S	26.7	2.87	38.1	0.09	x	x
3/4"	80S	26.7	3.91	38.1	0.11	*	*
1"	10S	33.4	2.77	38.1	0.14	x	x
1"	40S	33.4	3.38	38.1	0.16	x	x
1"	80S	33.4	4.55	38.1	0.22	*	*
1 1/4"	10S	42.2	2.77	47.6	0.23	x	x

1 1/4"	40S	42.2	3.56	47.6	0.25	x	x
1 1/4"	80S	42.2	4.85	47.6	0.4	*	*
1 1/2"	10S	48.3	2.77	57.2	0.31	x	x
1 1/2"	40S	48.3	3.68	57.2	0.4	x	x
1 1/2"	80S	48.3	5.08	57.2	0.51	*	*
2"	10S	60.3	2.77	76.2	0.51	x	x
2"	40S	60.3	3.91	76.2	0.71	x	x
2"	80S	60.3	5.54	76.2	0.91	*	*
2 1/2"	10S	73	3.05	95.3	0.85	x	x
2 1/2"	40S	73	5.16	95.3	1.36	x	x
2 1/2"	80S	73	7.01	95.3	1.81	*	*
3"	10S	88.9	3.05	114.3	1.22	x	x
3"	40S	88.9	5.49	114.3	2.18	x	x
3"	80S	88.9	7.62	114.3	2.98	*	*
3 1/2"	10S	101.6	3.05	133.4	1.7	x	x
3 1/2"	40S	101.6	5.74	133.4	1.83	*	*
4"	10S	114.3	3.05	152.4	2.15	x	x
4"	40S	114.3	6.02	152.4	4.17	*	*
4"	80S	114.3	8.56	152.4	6.18		
5"	10S	141.3	3.4	190.5	3.63	x	x
5"	40S	141.3	6.55	190.5	6.86	*	*
6"	10S	168.3	3.4	228.6	5.44	x	x
6"	40S	168.3	7.11	228.6	10.89	*	*
6"	80S	168.3	10.97	228.6	16.33		
8"	10S	219.1	3.76	304.8	10.66	x	x
8"	40S	219.1	8.18	304.8	21.55	*	*
8"	80S	219.1	12.7	304.8	33.11	*	*
10"	10S	273.1	4.19	381	19.5	x	x
10"	40S	273.1	9.27	381	38.56	*	*
12"	10S	323.9	4.57	457.2	27.22	x	x
12"	40S	323.9	9.53	457.2	59.42	*	*
14"	10S	355.6	4.78	533.4	36.3	x	x
16"	10S	406.4	4.78	609.6	47.63	*	*
18"	10S	457.2	4.78	685.8	59.87	*	*
20"	10S	508	5.54	762	99.79	*	*
24"	10S	609.6	6.35	914.4	140.61	*	*