

ASME

BUTT-WELD FITTINGS



Manfred Geldbach
Flanschen und Fitting



GELDBACH

BRASIL

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MANUFACTURING PROGRAMME

LIEFERPROGRAMM

Buttwelding Fittings, Seamless and Welded

Schweißfittings,
nahtlos und geschweißt

Standards Normen	Sizerange Abmessungsbereich
DIN BS ANSI MSS TAYLOR MADE (to customer requirements)	1/2"–24"

Forged Steel Flanges

Flanschen

DIN BS ANSI MSS API AWWA TAYLOR MADE (to customer requirements)	1/2"–80" OD up to 2500 MM ÄD bis 2500 MM
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The above range of fittings and flanges are available or can be produced in low carbon, alloy and partly in stainless steel grades. Please see also page 33–34

O.g. Fittings und Flanschen sind vorrätig oder können produziert werden in unlegierten, legierten und teilweise in rostfreien Stählen. Siehe auch Seite 33 und 34

For detailed information please refer to our special catalogues:

Weitere Informationen entnehmen Sie bitte unseren Katalogen:

A: Flanges to DIN

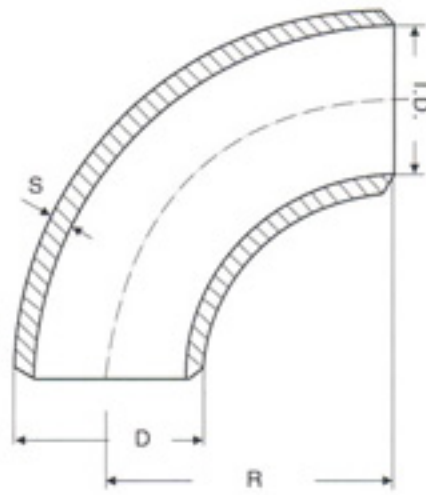
B: Fittings to DIN

**C: Flanges to ANSO, BS 3293,
MSS–SP–44, API 605**

Flanschen nach DIN

Fittings nach DIN

Flanschen nach ANSI, BS 3293
MSS–SP–44, API 605



90° Elbows Long Radius 90° Rohrbogen Langer Radius ANSI B 16.9

Standard

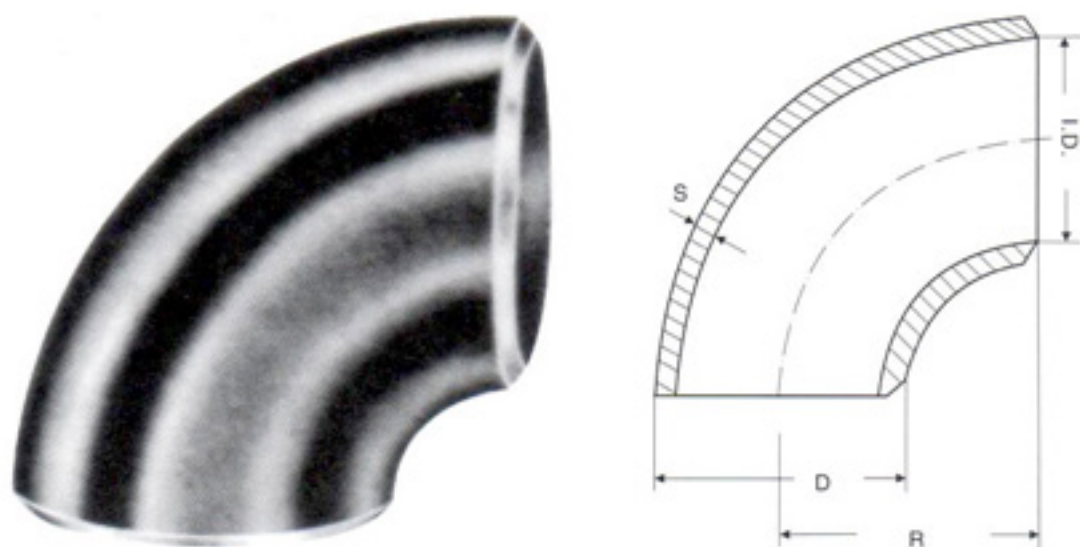
Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser D	Inside Diameter Innendurchmesser D	Wall Thickness Wandstärke S	Center to End Krümmungshalbmesser R	Approx. Weight Pounds Gewicht ca. Kg
1/2"	0.840 21,3	0.622 15,8	0.109 2,77	1.1/2 38,1	0.17 0,077
3/4"	1.050 26,7	0.824 20,9	0.113 2,87	1.1/8 28,6	0.17 0,077
1"	1.315 33,4	1.049 26,6	0.133 3,38	1.1/2 38,1	0.34 0,154
1.1/4"	1.660 42,2	1.380 35,1	0.140 3,56	1.7/8 47,6	0.58 0,263
1.1/2"	1.900 48,3	1.610 40,9	0.145 3,68	2.1/4 57,2	0.83 0,376
2"	2.375 60,3	2.067 52,5	0.154 3,91	3 76,2	1.49 0,676
2.1/2"	2.875 73,0	2.469 62,7	0.203 5,16	3.3/4 95,3	2.92 1,33
3"	3.500 88,9	3.068 77,9	0.216 5,49	4.1/2 114,3	4.58 2,08
3.1/2"	4.000 101,6	3.548 90,1	0.226 5,74	5.1/4 133,4	6.43 2,92
4"	4.500 114,3	4.026 102,3	0.237 6,02	6 152,4	8.70 3,95
5"	5.563 141,3	5.047 128,2	0.258 6,55	7.1/2 190,5	14.7 6,67
6"	6.625 168,3	6.065 154,1	0.280 7,11	9 228,6	22.9 10,4
8"	8.625 219,1	7.981 202,7	0.322 8,18	12 304,8	46.0 20,9
10"	10.750 273,0	10.020 254,5	0.365 9,27	15 381,0	81.5 37,0
12"	12.750 323,9	12.000 304,8	0.375 9,52	18 457,2	119 54,0
14"	14.000 355,6	13.250 336,6	0.375 9,52	21 533,4	154 69,9
16"	16.000 406,4	15.250 387,4	0.375 9,52	24 609,6	201 91,2
18"	18.000 457,2	17.250 438,2	0.375 9,52	27 685,8	256 116,1
20"	20.000 508,0	19.250 489,0	0.375 9,52	30 762,0	317 143,8
22"	22.000 558,8	21.250 539,8	0.375 9,52	33 838,2	385 174,6
24"	24.000 609,6	23.250 590,6	0.375 9,52	36 914,4	458 207,7
26"	26.000 660,4	25.250 641,4	0.375 9,52	39 990,6	539 244,5
28"	28.000 711,2	27.250 692,1	0.375 9,52	42 1066,8	680 308,0
30"	30.000 762,0	29.250 743,0	0.375 9,52	45 1143,0	720 326,6
32"	32.000 812,8	31.250 793,7	0.375 9,52	48 1219,2	850 386,0
34"	34.000 863,6	33.250 844,6	0.375 9,52	51 1295,4	926 420,0
36"	36.000 914,4	35.250 895,4	0.375 9,52	54 1371,6	1040 471,7
38"	38.000 965,2	37.250 946,1	0.375 9,52	57 1447,8	1200 544,0
40"	40.000 1016,0	39.250 996,9	0.375 9,52	60 1524,0	1300 590,0
42"	42.000 1066,8	41.250 1047,8	0.375 9,52	63 1600,2	1420 644,1
44"	44.000 1117,6	43.250 1098,5	0.375 9,52	66 1676,4	1600 726,0
46"	46.000 1168,4	45.250 1149,39	0.375 9,52	69 1752,6	1800 816,0
48"	48.000 1219,2	47.250 1200,1	0.375 9,52	72 1828,8	2000 907,0

Dimensions: black figures=inches
blue figures =Millimeters
Abmessungen: schwarze Zahlen=Zoll
blaue Zahlen =Millimeter

Extra Strong

Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser D	Inside Diameter Innendurchmesser D	Wall Thickness Wandstärke S	Center to End Krümmungshalbmesser R	Approx. Weight Pounds Gewicht ca. Kg
1/2"	0.840 21,3	0.546 13,9	0.147 3,73	1.1/2 38,1	0.22 0,100
3/4"	1.050 26,7	0.742 18,8	0.154 3,91	1.1/8 28,6	0.22 0,100
1"	1.315 33,4	0.957 24,3	0.179 4,55	1.1/2 38,1	0.43 0,195
1.1/4"	1.660 42,2	1.273 32,5	0.191 4,85	1.7/8 47,6	0.75 0,340
1.1/2"	1.900 48,3	1.500 38,1	0.200 5,08	2.1/4 57,2	1.06 0,481
2"	2.375 60,3	1.939 49,3	0.218 5,54	3 76,2	2.00 0,907
2.1/2"	2.875 73,0	2.323 59,0	0.276 7,01	3.3/4 95,3	3.82 1,73
3"	3.500 88,9	2.900 73,7	0.300 7,62	4.1/2 114,3	6.12 2,78
3.1/2"	4.000 101,6	3.364 85,4	0.318 8,08	5.1/4 133,4	8.72 3,96
4"	4.500 114,3	3.826 97,2	0.337 8,56	6 152,4	11.9 5,40
5"	5.563 141,3	4.813 122,3	0.375 9,52	7.1/2 190,5	20.6 9,34
6"	6.625 168,3	5.761 146,3	0.432 10,97	9 228,6	34.1 15,5
8"	8.625 219,1	7.625 193,7	0.500 12,70	12 304,8	69.1 31,3
10"	10.750 273,0	9.750 247,7	0.500 12,70	15 381,0	109 49,4
12"	12.750 323,9	11.750 298,5	0.500 12,70	18 457,2	157 71,2
14"	14.000 355,6	13.000 330,2	0.500 12,70	21 533,4	202 91,6
16"	16.000 406,4	15.000 381,0	0.500 12,70	24 609,6	265 120,2
18"	18.000 457,2	17.000 431,8	0.500 12,70	27 685,8	338 153,3
20"	20.000 508,0	19.000 482,6	0.500 12,70	30 762,0	419 190,1
22"	22.000 558,8	21.000 533,4	0.500 12,70	33 838,2	508 230,4
24"	24.000 609,6	23.000 584,2	0.500 12,70	36 914,4	606 274,9
26"	26.000 660,4	25.000 635,0	0.500 12,70	39 990,6	713 323,4
28"	28.000 711,2	27.000 685,8	0.500 12,70	42 1066,8	850 385,0
30"	30.000 762,0	29.000 736,6	0.500 12,70	45 1143,0	953 432,3
32"	32.000 812,8	31.000 787,4	0.500 12,70	48 1219,2	1126 511,0
34"	34.000 863,6	33.000 838,2	0.500 12,70	51 1295,4	1230 557,9
36"	36.000 914,4	35.000 889,0	0.500 12,70	54 1371,6	1380 626,0
38"	38.000 965,2	37.000 939,8	0.500 12,70	57 1447,8	1580 717,0
40"	40.000 1016,0	39.000 990,6	0.500 12,70	60 1524,0	1750 794,0
42"	42.000 1066,8	41.000 1041,4	0.500 12,70	63 1600,2	1880 852,7
44"	44.000 1117,6	43.000 1092,2	0.500 12,70	66 1676,4	2150 975,0
46"	46.000 1168,4	45.000 1143,0	0.500 12,70	69 1752,6	2325 1055,0
48"	48.000 1219,2	47.000 1193,8	0.500 12,70	72 1828,8	2500 1134,0

Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



90° Elbows Short Radius 90° Rohrbogen Kurzer Radius

ANSI B 16.28

Standard

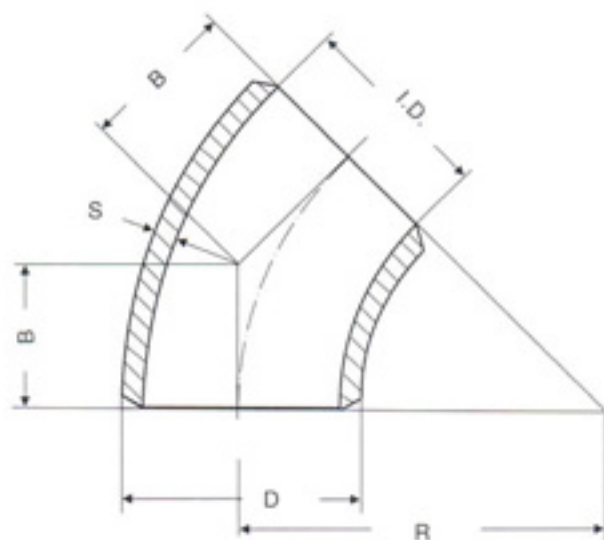
Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser D	Inside Diameter Innendurchmesser D	Wall Thickness Wandstärke S	Center to End Krümmungshalbmesser R	Approx. Weight Pounds Gewicht ca. Kg
1"	1.315 33,4	1.049 26,6	0.133 3,38	1 25,4	0.23 0,104
1.1/4"	1.660 42,2	1.380 35,1	0.140 3,56	1.1/4 31,7	0.38 0,172
1.1/2"	1.900 48,3	1.610 40,9	0.145 3,68	1.1/2 38,1	0.55 0,249
2"	2.375 60,3	2.067 52,5	0.154 3,91	2 50,8	0.99 0,449
2.1/2"	2.875 73,0	2.469 62,7	0.203 5,16	2.1/2 63,5	1.93 0,875
3"	3.500 88,9	3.068 77,9	0.216 5,49	3 76,2	3.04 1,38
3.1/2"	4.000 101,6	3.548 90,1	0.226 5,74	3.1/2 88,9	4.26 1,93
4"	4.500 114,3	4.026 102,3	0.237 6,02	4 101,6	5.77 2,62
5"	5.563 141,3	5.047 128,2	0.258 6,55	5 127,0	9.75 4,42
6"	6.625 168,3	6.065 154,1	0.280 7,11	6 152,4	15.2 6,89
8"	8.625 219,1	7.981 202,7	0.322 8,18	8 203,2	30.5 13,8
10"	10.750 273,0	10.020 254,5	0.365 9,27	10 254,0	54.0 24,5
12"	12.750 323,9	12.000 304,8	0.375 9,52	12 304,8	79.5 36,1
14"	14.000 355,6	13.250 336,6	0.375 9,52	14 355,6	102 46,3
16"	16.000 406,4	15.250 387,4	0.375 9,52	16 406,4	135 61,2
18"	18.000 457,2	17.250 438,2	0.375 9,52	18 457,2	171 77,6
20"	20.000 508,0	19.250 489,0	0.375 9,52	20 508,0	212 96,2
22"*	22.000 558,8	21.250 539,8	0.375 9,52	22 558,8	258 117,0
24"	24.000 609,6	23.250 590,6	0.375 9,52	24 609,6	305 138,3
26"*	26.000 660,4	25.250 641,4	0.375 9,52	26 660,4	361 163,8
28"*	28.000 711,2	27.250 692,1	0.375 9,52	28 711,2	456 206,8
30"*	30.000 762,0	29.250 743,0	0.375 9,52	30 762,0	480 217,7
32"*	32.000 812,8	31.250 793,7	0.375 9,52	32 812,8	456 206,8
36"*	36.000 914,4	35.250 895,4	0.375 9,52	36 914,4	692 313,9
38"*	38.000 965,2	37.250 946,1	0.375 9,52	38 965,2	804 364,7
40"*	40.000 1016,0	39.250 996,9	0.375 9,52	40 1016,0	871 395,1
42"*	42.000 1066,8	41.250 1047,8	0.375 9,52	42 1066,8	1079 489,4
44"*	44.000 1117,6	43.250 1098,5	0.375 9,52	44 1117,6	1072 486,3
46"*	46.000 1168,4	45.250 1149,39	0.375 9,52	46 1168,4	1206 547,1
48"*	48.000 1219,2	47.250 1200,1	0.375 9,52	48 1219,2	1340 607,8

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Abmessungen: schwarze Zahlen=Zoll
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Extra Strong

Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser D	Inside Diameter Innendurchmesser D	Wall Thickness Wandstärke S	Center to End Krümmungshalbmesser R	Approx. Weight Pounds Gewicht ca. Kg
1"	1.315 33,4	0.957 24,3	0.179 4,55	1 25,4	0.29 0,132
1.1/4"	1.660 42,2	1.273 32,5	0.191 4,85	1.1/4 31,7	0.50 0,227
1.1/2"	1.900 48,3	1.500 38,1	0.200 5,08	1.1/2 38,1	0.72 0,327
2"	2.375 60,3	1.939 49,3	0.218 5,54	2 50,8	1.33 0,603
2.1/2"	2.875 73,0	2.323 59,0	0.276 7,01	2.1/2 63,5	2.51 1,14
3"	3.500 88,9	2.900 73,7	0.300 7,62	3 76,2	4.04 1,83
3.1/2"	4.000 101,6	3.364 85,4	0.318 8,08	3.1/2 88,9	5.76 2,61
4"	4.500 114,3	3.826 97,2	0.337 8,56	4 101,6	7.89 3,58
5"	5.563 141,3	4.813 122,3	0.375 9,52	5 127,0	13.7 6,21
6"	6.625 168,3	5.761 146,3	0.432 10,97	6 152,4	22.6 10,3
8"	8.625 219,1	7.625 193,7	0.500 12,70	8 203,2	45.6 20,7
10"	10.750 273,0	9.750 247,7	0.500 12,70	10 254,0	72.5 32,9
12"	12.750 323,9	11.750 298,5	0.500 12,70	12 304,8	104 47,2
14"	14.000 355,6	13.000 330,2	0.500 12,70	14 355,6	135 61,2
16"	16.000 406,4	15.000 381,0	0.500 12,70	16 406,4	177 80,3
18"	18.000 457,2	17.000 431,8	0.500 12,70	18 457,2	225 102,1
20"	20.000 508,0	19.000 482,6	0.500 12,70	20 508,0	278 126,1
22"	22.000 558,8	21.000 533,4	0.500 12,70	22 558,8	340 154,2
24"	24.000 609,6	23.000 584,2	0.500 12,70	24 609,6	404 183,3
26"	26.000 660,4	25.000 635,0	0.500 12,70	26 660,4	478 216,8
28"	28.000 711,2	27.000 685,8	0.500 12,70	28 711,2	570 258,6
30"	30.000 762,0	29.000 736,6	0.500 12,70	30 762,0	634 287,6
32"	32.000 812,8	31.000 787,4	0.500 12,70	32 812,8	754 342,0
36"	36.000 914,4	35.000 889,0	0.500 12,70	36 914,4	913 414,1
38"	38.000 965,2	37.000 939,8	0.500 12,70	38 965,2	1059 480,4
40"	40.000 1016,0	39.000 990,6	0.500 12,70	40 1016,0	1173 532,1
42"	42.000 1066,8	41.000 1041,4	0.500 12,70	42 1066,8	1430 648,6
44"	44.000 1117,6	43.000 1092,2	0.500 12,70	44 1117,6	1440 653,2
46"	46.000 1168,4	45.000 1143,0	0.500 12,70	46 1168,4	1558 706,7
48"	48.000 1219,2	47.000 1193,8	0.500 12,70	48 1219,2	1675 759,8

Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



45° Elbows Long Radius 45° Rohrbogen Langer Radius ANSI B 16.9

Standard

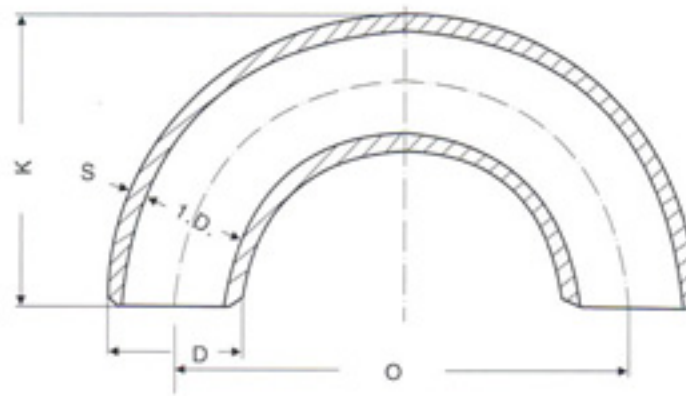
Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser D	Inside Diameter Innendurchmesser I.D.	Wall Thickness Wandstärke S	Center to End Krümmungshalbmesser B	Radius Radius R	Approx. Weight Pounds Gewicht ca. Kg
1/2"	0.840 21,3	0.622 15,8	0.109 2,77	3/8 15,9	1.1/2 38,1	0.09 0,041
3/4"	1.050 26,7	0.824 20,9	0.113 2,87	7/16 11,1	1.1/8 28,6	0.09 0,041
1"	1.315 33,4	1.049 26,6	0.133 3,38	7/8 22,2	1.1/2 38,1	0.24 0,109
1.1/4"	1.660 42,2	1.380 35,1	0.140 3,56	1 25,4	1.7/8 47,6	0.37 0,168
1.1/2"	1.900 48,3	1.610 40,9	0.145 3,68	1.1/8 28,6	2.1/4 57,2	0.50 0,227
2"	2.375 60,3	2.067 52,5	0.154 3,91	1.3/8 34,9	3 76,2	0.82 0,372
2.1/2"	2.875 73,0	2.469 62,7	0.203 5,16	1.3/4 44,5	3.3/4 95,3	1.64 0,744
3"	3.500 88,9	3.068 77,9	0.216 5,49	2 50,8	4.1/2 114,3	2.43 1,10
3.1/2"	4.000 101,6	3.548 90,1	0.226 5,74	2.1/4 57,2	5.1/4 133,4	3.29 1,49
4"	4.500 114,3	4.026 102,3	0.237 6,02	2.1/2 63,5	6 152,4	4.31 1,95
5"	5.563 141,3	5.047 128,2	0.258 6,55	3.1/8 79,4	7.1/2 190,5	7.30 3,31
6"	6.625 168,3	6.065 154,1	0.280 7,11	3.3/4 95,3	9 228,6	11.3 5,13
8"	8.625 219,1	7.981 202,7	0.322 8,18	5 127,0	12 304,8	22.8 10,3
10"	10.750 273,0	10.020 254,5	0.365 9,27	6.1/4 158,8	15 381,0	40.4 18,3
12"	12.750 323,9	12.000 304,8	0.375 9,52	7.1/2 190,5	18 457,2	59.5 27,0
14"	14.000 355,6	13.250 336,6	0.375 9,52	8.3/4 222,3	21 533,4	76.5 34,7
16"	16.000 406,4	15.250 387,4	0.375 9,52	10 254,0	24 609,6	100 45,4
18"	18.000 457,2	17.250 438,2	0.375 9,52	11.1/4 285,8	27 685,8	128 58,1
20"	20.000 508,0	19.250 489,0	0.375 9,52	12.1/2 317,5	30 762,0	158 71,7
22"	22.000 558,8	21.250 539,8	0.375 9,52	13.1/2 342,9	33 838,2	192 87,1
24"	24.000 609,6	23.250 590,6	0.375 9,52	15 381,0	36 914,4	229 103,9
26"	26.000 660,4	25.250 641,4	0.375 9,52	16 406,4	39 990,6	269 122,0
28"	28.000 711,2	27.250 692,1	0.375 9,52	17.1/4 438,2	42 1066,8	340 154,0
30"	30.000 762,0	29.250 743,0	0.375 9,52	18.1/2 469,9	45 1143,0	358 162,4
32"	32.000 812,8	31.250 793,7	0.375 9,52	19.3/4 501,7	48 1219,2	425 193,0
34"	34.000 863,6	33.250 844,6	0.375 9,52	21 533,4	51 1295,4	463 210,0
36"	36.000 914,4	35.250 895,4	0.375 9,52	22.1/4 565,2	54 1371,6	518 235,0
38"	38.000 965,2	37.250 946,1	0.375 9,52	23.5/8 600,1	57 1447,8	600 272,0
40"	40.000 1016,0	39.250 996,9	0.375 9,52	24.7/8 631,8	60 1524,0	650 295,0
42"	42.000 1066,8	41.250 1047,8	0.375 9,52	26 660,4	63 1600,2	707 320,7
44"	44.000 1117,6	43.250 1098,5	0.375 9,52	27.3/8 695,3	66 1676,4	800 363,0
46"	46.000 1168,4	45.250 1149,39	0.375 9,52	28.5/8 727,1	69 1752,6	900 408,0
48"	48.000 1219,2	47.250 1200,1	0.375 9,52	29.7/8 758,8	72 1828,8	1000 454,0

Dimensions: black figures=inches
blue figures =Millimeters
Abmessungen: schwarze Zahlen=Zoll
blaue Zahlen =Millimeter

Extra Strong

Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser D	Inside Diameter Innendurchmesser I.D.	Wall Thickness Wandstärke S	Center to End Krümmungshalbmesser B	Radius Radius R	Approx. Weight Pounds Gewicht ca. Kg
1/2"	0.840 21,3	0.546 13,9	0.147 3,73	3/8 15,9	1.1/2 38,1	0.11 0,050
3/4"	1.050 26,7	0.742 18,8	0.154 3,91	7/16 11,1	1.1/8 28,6	0.11 0,050
1"	1.315 33,4	0.957 24,3	0.179 4,55	7/8 22,2	1.1/2 38,1	0.30 0,136
1.1/4"	1.660 42,2	1.273 32,5	0.191 4,85	1 25,4	1.7/8 47,6	0.48 0,218
1.1/2"	1.900 48,3	1.500 38,1	0.200 5,08	1.1/8 28,6	2.1/4 57,2	0.65 0,295
2"	2.375 60,3	1.939 49,3	0.218 5,54	1.3/8 34,9	3 76,2	1.09 0,494
2.1/2"	2.875 73,0	2.323 59,0	0.276 7,01	1.3/4 44,5	3.3/4 95,3	2.10 0,953
3"	3.500 88,9	2.900 73,7	0.300 7,62	2 50,8	4.1/2 114,3	3.23 1,47
3.1/2"	4.000 101,6	3.364 85,4	0.318 8,08	2.1/4 57,2	5.1/4 133,4	4.42 2,01
4"	4.500 114,3	3.826 97,2	0.337 8,56	2.1/2 63,5	6 152,4	5.86 2,66
5"	5.563 141,3	4.813 122,3	0.375 9,52	3.1/8 79,4	7.1/2 190,5	10.2 4,63
6"	6.625 168,3	5.761 146,3	0.432 10,97	3.3/4 95,3	9 228,6	16.7 7,57
8"	8.625 219,1	7.625 193,7	0.500 12,70	5 127,0	12 304,8	34.0 15,4
10"	10.750 273,0	9.750 247,7	0.500 12,70	6.1/4 158,8	15 381,0	53.9 24,4
12"	12.750 323,9	11.750 298,5	0.500 12,70	7.1/2 190,5	18 457,2	78.3 35,5
14"	14.000 355,6	13.000 330,2	0.500 12,70	8.3/4 222,3	21 533,4	100 45,4
16"	16.000 406,4	15.000 381,0	0.500 12,70	10 254,0	24 609,6	132 59,9
18"	18.000 457,2	17.000 431,8	0.500 12,70	11.1/4 285,8	27 685,8	168 76,2
20"	20.000 508,0	19.000 482,6	0.500 12,70	12.1/2 317,5	30 762,0	208 94,3
22"	22.000 558,8	21.000 533,4	0.500 12,70	13.1/2 342,9	33 838,2	253 114,8
24"	24.000 609,6	23.000 584,2	0.500 12,70	15 381,0	36 914,4	302 137,0
26"	26.000 660,4	25.000 635,0	0.500 12,70	16 406,4	39 990,6	355 161,0
28"	28.000 711,2	27.000 685,8	0.500 12,70	17.1/4 438,2	42 1066,8	425 193,0
30"	30.000 762,0	29.000 736,6	0.500 12,70	18.1/2 469,9	45 1143,0	475 215,5
32"	32.000 812,8	31.000 787,4	0.500 12,70	19.3/4 501,7	48 1219,2	563 255,0
34"	34.000 863,6	33.000 838,2	0.500 12,70	21 533,4	51 1295,4	615 279,0
36"	36.000 914,4	35.000 889,0	0.500 12,70	22.1/4 565,2	54 1371,6	686 311,2
38"	38.000 965,2	37.000 939,8	0.500 12,70	23.5/8 600,1	57 1447,8	780 354,0
40"	40.000 1016,0	39.000 990,6	0.500 12,70	24.7/8 631,8	60 1524,0	875 397,0
42"	42.000 1066,8	41.000 1041,4	0.500 12,70	26 660,4	63 1600,2	937 425,0
44"	44.000 1117,6	43.000 1092,2	0.500 12,70	27.3/8 695,3	66 1676,4	1075 488,0
46"	46.000 1168,4	45.000 1143,0	0.500 12,70	28.5/8 727,1	69 1752,6	1168 530,0
48"	48.000 1219,2	47.000 1193,8	0.500 12,70	29.7/8 758,8	72 1828,8	1250 567,0

Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



180° Returns Long Radius 180° Rohrbogen Langer Radius ANSI B 16.9

Standard

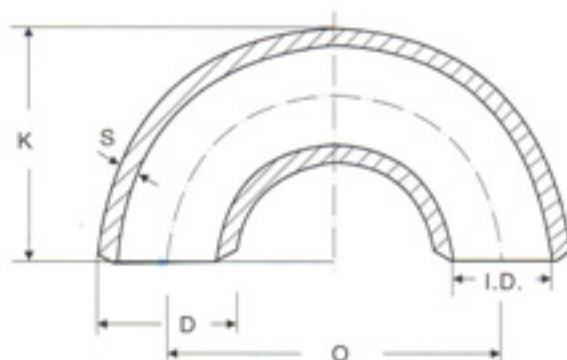
Extra Strong

Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser D	Inside Diameter Innendurchmesser I.D.	Wall Thickness Wandstärke S	Center to Center Mittenabstand O	Back to Face Bogenhöhe K	Approx. Weight Pounds Gewicht ca. Kg
1/2"	0.840 21,3	0.622 15,8	0.109 2,77	3 76,2	1.7/8 47,6	0.35 0,159
3/4"	1.050 26,7	0.824 20,9	0.113 2,87	2.1/4 63,5	1.11/16 42,9	0.35 0,159
1"	1.315 33,4	1.049 26,6	0.133 3,38	3 76,2	2.3/16 55,6	0.69 0,313
1.1/4"	1.660 42,2	1.380 35,1	0.140 3,56	3.3/4 95,3	2.3/4 69,9	1.16 0,526
1.1/2"	1.900 48,3	1.610 40,9	0.145 3,68	4.1/2 114,3	3.1/4 82,6	1.67 0,757
2"	2.375 60,3	2.067 52,5	0.154 3,91	6 152,4	4.3/16 106,4	2.99 1,36
2.1/2"	2.875 73,0	2.469 62,7	0.203 5,16	7.1/2 190,5	5.3/16 131,8	5.89 2,67
3"	3.500 88,9	3.068 77,9	0.216 5,49	9 228,6	6.1/4 158,8	9.23 4,19
3.1/2"	4.000 101,6	3.548 90,1	0.226 5,74	10.1/2 266,7	7.1/4 184,2	13.0 5,90
4"	4.500 114,3	4.026 102,3	0.237 6,02	12 304,8	8.1/4 209,6	17.5 7,94
5"	5.563 141,3	5.047 128,2	0.258 6,55	15 381,0	10.5/16 261,9	29.7 13,5
6"	6.625 168,3	6.065 154,1	0.280 7,11	18 457,2	12.5/16 312,7	46.1 20,9
8"	8.625 219,1	7.981 202,7	0.322 8,18	24 609,6	16.5/16 414,3	92.4 41,9
10"	10.750 273,0	10.020 254,5	0.365 9,27	30 762,0	20.3/8 517,5	164 74,4
12"	12.750 323,9	12.000 304,8	0.375 9,52	36 914,4	24.3/8 619,1	241 109,3
14"	14.000 355,6	13.250 336,6	0.375 9,52	42 1066,8	28 711,2	309 140,2
16"	16.000 406,4	15.250 387,4	0.375 9,52	48 1219,2	32 812,8	405 183,7
18"	18.000 457,2	17.250 438,2	0.375 9,52	54 1371,6	36 914,4	514 233,1
20"	20.000 508,0	19.250 489,0	0.375 9,52	60 1524,0	40 1016,0	637 288,9
22"	22.000 558,8	21.250 539,8	0.375 9,52	66 1676,4	44 1117,6	771 349,7
24"	24.000 609,6	23.250 590,6	0.375 9,52	72 1828,8	48 1219,2	920 417,3
26"	26.000 660,4	25.250 641,4	0.375 9,52	78 1981,2	52 1320,8	1081 490,3
30"	30.000 762,0	29.250 743,0	0.375 9,52	90 2286,0	60 1524,0	1441 635,6

Dimensions: black figures=inches
blue figures =Millimeters
Abmessungen: schwarze Zahlen=Zoll
blaue Zahlen =Millimeter

Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser D	Inside Diameter Innendurchmesser I.D.	Wall Thickness Wandstärke S	Center to Center Mittenabstand O	Back to Face Bogenhöhe K	Approx. Weight Pounds Gewicht ca. Kg
1/2"	0.840 21,3	0.546 13,9	0.147 3,73	3 76,2	1.7/8 47,6	0.45 0,204
3/4"	1.050 26,7	0.742 18,8	0.154 3,91	2.1/4 63,5	1.11/16 42,9	0.45 0,204
1"	1.315 33,4	0.957 24,3	0.179 4,55	3 76,2	2.3/16 55,6	0.88 0,399
1.1/4"	1.660 42,2	1.273 32,5	0.191 4,85	3.3/4 95,3	2.3/4 69,9	1.52 0,689
1.1/2"	1.900 48,3	1.500 38,1	0.200 5,08	4.1/2 114,3	3.1/4 82,6	2.21 1,00
2"	2.375 60,3	1.939 49,3	0.218 5,54	6 152,4	4.3/16 106,4	4.07 1,85
2.1/2"	2.875 73,0	2.323 59,0	0.276 7,01	7.1/2 190,5	5.3/16 131,8	7.71 3,50
3"	3.500 88,9	2.900 73,7	0.300 7,62	9 228,6	6.1/4 158,8	12.4 5,62
3.1/2"	4.000 101,6	3.364 85,4	0.318 8,08	10.1/2 266,7	7.1/4 184,2	17.6 7,98
4"	4.500 114,3	3.826 97,2	0.337 8,56	12 304,8	8.1/4 209,6	24.2 11,0
5"	5.563 141,3	4.813 122,3	0.375 9,52	15 381,0	10.5/16 261,9	41.8 19,0
6"	6.625 168,3	5.761 146,3	0.432 10,97	18 457,2	12.5/16 312,7	68.9 31,3
8"	8.625 219,1	7.625 193,7	0.500 12,70	24 609,6	16.5/16 414,3	140 63,5
10"	10.750 273,0	9.750 247,7	0.500 12,70	30 762,0	20.3/8 517,5	221 100,2
12"	12.750 323,9	11.750 298,5	0.500 12,70	36 914,4	24.3/8 619,1	317 143,8
14"	14.000 355,6	13.000 330,2	0.500 12,70	42 1066,8	28 711,2	407 184,6
16"	16.000 406,4	15.000 381,0	0.500 12,70	48 1219,2	32 812,8	534 242,2
18"	18.000 457,2	17.000 431,8	0.500 12,70	54 1371,6	36 914,4	679 308,0
20"	20.000 508,0	19.000 482,6	0.500 12,70	60 1524,0	40 1016,0	841 381,5
22"	22.000 558,8	21.000 533,4	0.500 12,70	66 1676,4	44 1117,6	1020 462,7
24"	24.000 609,6	23.000 584,2	0.500 12,70	72 1828,8	48 1219,2	1220 553,4
26"	26.000 660,4	25.000 635,0	0.500 12,70	78 1981,2	52 1320,8	1430 648,6
30"	30.000 762,0	29.000 736,6	0.500 12,70	90 2286,0	60 1524,0	1910 866,4

Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



180 ° Returns Short Radius 180° Rohrbogen Kurzer Radius ANSI B 16.28

Standard

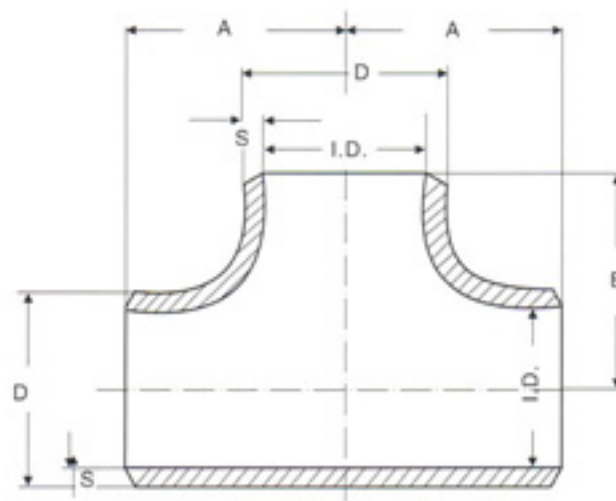
Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser D	Inside Diameter Innendurchmesser I.D.	Wall Thickness Wandstärke S	Center to Center Mittenabstand O	Back to Face Bogenhöhe K	Approx. Weight Pounds Gewicht ca. Kg
1"	1.315 33,4	1.049 26,6	0.133 3,38	2 50,8	1.5/8 41,3	0.46 0,209
1.1/4"	1.660 42,2	1.380 35,1	0.140 3,56	2.1/2 63,5	2.1/16 52,4	0.77 0,349
1.1/2"	1.900 48,3	1.610 40,9	0.145 3,68	3 76,2	2.7/16 61,9	1.11 0,503
2"	2.375 60,3	2.067 52,5	0.154 3,91	4 101,6	3.3/16 81,0	1.98 0,898
2.1/2"	2.875 73,0	2.469 62,7	0.203 5,16	5 127,0	3.15/16 100,0	3.92 1,78
3"	3.500 88,9	3.068 77,9	0.216 5,49	6 152,4	4.3/4 120,7	6.13 2,78
3.1/2"	4.000 101,6	3.548 90,1	0.226 5,74	7 177,8	5.1/2 139,7	8.60 3,90
4"	4.500 114,3	4.026 102,3	0.237 6,02	8 203,2	6.1/4 158,8	11.6 5,26
5"	5.563 141,3	5.047 128,2	0.258 6,55	10 254,0	7.3/4 196,9	19.7 8,94
6"	6.625 168,3	6.065 154,1	0.280 7,11	12 304,8	9.5/16 236,5	30.7 13,9
8"	8.625 219,1	7.981 202,7	0.322 8,18	16 406,4	12.5/16 312,7	61.6 27,9
10"	10.750 273,0	10.020 254,5	0.365 9,27	20 508,0	15.3/8 390,5	109 49,4
12"	12.750 323,9	12.000 304,8	0.375 9,52	24 609,6	18.3/8 466,7	160 72,6
14"	14.000 355,6	13.250 336,6	0.375 9,52	28 711,2	21 533,4	205 93,0
16"	16.000 406,4	15.250 387,4	0.375 9,52	32 812,8	24 609,6	270 122,5
18"	18.000 457,2	17.250 438,2	0.375 9,52	36 914,4	27 685,8	324 155,1
20"	20.000 508,0	19.250 489,0	0.375 9,52	40 1016,0	30 762,0	424 192,3
24"	24.000 609,6	23.250 590,6	0.375 9,52	48 1219,2	36 914,4	612 277,6
30"	30.000 762,0	29.250 743,0	0.375 9,52	60 1524,0	45 1143,0	960 435,4
30"	36.000 914,4	35.250 895,4	0.375 9,52	72 1828,8	54 1371,6	1387 629,1

Dimensions: black figures=inches
blue figures =Millimeters
Abmessungen: schwarze Zahlen=Zoll
blaue Zahlen =Millimeter

Extra Strong

Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser D	Inside Diameter Innendurchmesser I.D.	Wall Thickness Wandstärke S	Center to Center Mittenabstand O	Back to Face Bogenhöhe K	Approx. Weight Pounds Gewicht ca. Kg
1"	1.315 33,4	0.957 24,3	0.179 4,55	2 50,8	1.5/8 41,3	0.59 0,268
1.1/4"	1.660 42,2	1.273 32,5	0.191 4,85	2.1/2 63,5	2.1/16 52,4	1.02 0,463
1.1/2"	1.900 48,3	1.500 38,1	0.200 5,08	3 76,2	2.7/16 61,9	1.46 0,662
2"	2.375 60,3	1.939 49,3	0.218 5,54	4 101,6	3.3/16 81,0	2.70 1,23
2.1/2"	2.875 73,0	2.323 59,0	0.276 7,01	5 127,0	3.15/16 100,0	5.12 2,32
3"	3.500 88,9	2.900 73,7	0.300 7,62	6 152,4	4.3/4 120,7	8.21 3,72
3.1/2"	4.000 101,6	3.364 85,4	0.318 8,08	7 177,8	5.1/2 139,7	11.7 5,31
4"	4.500 114,3	3.826 97,2	0.337 8,56	8 203,2	6.1/4 158,8	16.1 7,30
5"	5.563 141,3	4.813 122,3	0.375 9,52	10 254,0	7.3/4 196,9	27.7 12,6
6"	6.625 168,3	5.761 146,3	0.432 10,97	12 304,8	9.5/16 236,5	45.7 20,7
8"	8.625 219,1	7.625 193,7	0.500 12,70	16 406,4	12.5/16 312,7	92.6 42,0
10"	10.750 273,0	9.750 247,7	0.500 12,70	20 508,0	15.3/8 390,5	147 66,7
12"	12.750 323,9	11.750 298,5	0.500 12,70	24 609,6	18.3/8 466,7	210 95,3
14"	14.000 355,6	13.000 330,2	0.500 12,70	28 711,2	21 533,4	271 122,9
16"	16.000 406,4	15.000 381,0	0.500 12,70	32 812,8	24 609,6	355 161,0
18"	18.000 457,2	17.000 431,8	0.500 12,70	36 914,4	27 685,8	451 204,6
20"	20.000 508,0	19.000 482,6	0.500 12,70	40 1016,0	30 762,0	560 254,0
24"	24.000 609,6	23.000 584,2	0.500 12,70	48 1219,2	36 914,4	810 367,4
30"	30.000 762,0	29.000 736,6	0.500 12,70	60 1524,0	45 1143,0	1272 577,0
30"	30.000 762,0	29.000 736,6	0.500 12,70	72 1828,8	54 1371,6	1838 833,7

Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Straight Tees

T-Stücke

ANSI B 16.9

Standard

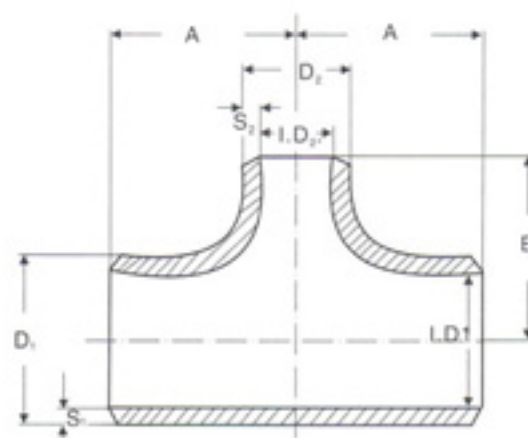
Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser D	Inside Diameter Innendurchmesser I.D.	Wall Thickness Wandstärke S	Center to End Run Mittenabstand Durchgang A	Center to End Branch Mittenabstand Abzweig B	Approx. Weight Pounds Gewicht ca. Kg
1/2"	0.840 21,3	0.622 15,8	0.109 2,77	1 25,4	1 25,4	0.25 0,113
3/4"	1.050 26,7	0.824 20,9	0.113 2,87	1.1/8 28,6	1.1/8 28,6	0.37 0,168
1"	1.315 33,4	1.049 26,6	0.133 3,38	1.1/2 38,1	1.1/2 38,1	0.76 0,345
1.1/4"	1.660 42,2	1.380 35,1	0.140 3,56	1.7/8 47,6	1.7/8 47,6	1.34 0,608
1.1/2"	1.900 48,3	1.610 40,9	0.145 3,68	2.1/4 57,2	2.1/4 57,2	2.02 0,916
2"	2.375 60,3	2.067 52,5	0.154 3,91	2.1/2 63,5	2.1/2 63,5	2.96 1,34
2.1/2"	2.875 73,0	2.469 62,7	0.203 5,16	3 76,2	3 76,2	5.21 2,36
3"	3.500 88,9	3.068 77,9	0.216 5,49	3.3/8 85,7	3.3/8 85,7	7.44 3,37
3.1/2"	4.000 101,6	3.548 90,1	0.226 5,74	3.3/4 95,3	3.3/4 95,3	9.85 4,47
4"	4.500 114,3	4.026 102,3	0.237 6,02	4.1/8 104,8	4.1/8 104,8	12.6 5,72
5"	5.563 141,3	5.047 128,2	0.258 6,55	4.7/8 123,8	4.7/8 123,8	19.8 8,98
6"	6.625 168,3	6.065 154,1	0.280 7,11	5.5/8 142,8	5.5/8 142,8	29.3 13,3
8"	8.625 219,1	7.981 202,7	0.322 8,18	7 177,8	7 177,8	53.7 24,4
10"	10.750 273,0	10.020 254,5	0.365 9,27	8.1/2 10	8.1/2 10	91.2 41,4
12"	12.750 323,9	12.000 304,8	0.375 9,52	11 179,4	11 179,4	132 59,9
14"	14.000 355,6	13.250 336,6	0.375 9,52	12 304,8	12 304,8	159 72,1
16"	16.000 406,4	15.250 387,4	0.375 9,52	13.1/2 342,9	13.1/2 342,9	219 99,3
18"	18.000 457,2	17.250 438,2	0.375 9,52	15 381,0	15 381,0	282 127,9
20"	20.000 508,0	19.250 489,0	0.375 9,52	16.1/2 317,5	16.1/2 317,5	354 160,6
22"	22.000 558,8	21.250 539,8	0.375 9,52	13.1/2 419,1	13.1/2 419,1	437 198,2
24"	24.000 609,6	23.250 590,6	0.375 9,52	17 431,8	17 431,8	493 223,6
26"	26.000 660,4	25.250 641,4	0.375 9,52	19.1/2 495,3	19.1/2 495,3	634 287,6
28"	28.000 711,2	27.250 692,1	0.375 9,52	20.1/2 520,7	20.1/2 520,7	745 337,0
30"	30.000 762,0	29.250 743,0	0.375 9,52	22 558,8	22 558,8	855 387,8
32"	32.000 812,8	31.250 793,7	0.375 9,52	23.1/2 596,9	23.1/2 596,9	996 451,0
34"	34.000 863,6	33.250 844,6	0.375 9,52	25 635,0	25 635,0	1136 515,3
36"	36.000 914,4	35.250 895,4	0.375 9,52	26.1/2 673,1	26.1/2 673,1	1294 586,9
38"	38.000 965,2	37.250 946,1	0.375 9,52	28 711,2	28 711,2	1407 638,0
40"	40.000 1016,0	39.250 996,9	0.375 9,52	29.1/2 749,3	29.1/2 749,3	1520 690,0
42"	42.000 1066,8	41.250 1047,8	0.375 9,52	30 762	28 711,2	1752 795,0
44"	44.000 1117,6	43.250 1098,5	0.375 9,52	32 812,8	30 762	1985 899,0
46"	46.000 1168,4	45.250 1149,39	0.375 9,52	33.1/2 850,9	31.1/2 800,1	2220 1007,0
48"	48.000 1219,2	47.250 1200,1	0.375 9,52	35 889	33 838,2	2450 1113,0

Extra Strong

Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser D	Inside Diameter Innendurchmesser I.D.	Wall Thickness Wandstärke S	Center to End Run Mittenabstand Durchgang A	Center to End Branch Mittenabstand Abzweig B	Approx. Weight Pounds Gewicht ca. Kg
1/2"	0.840 21,3	0.546 13,9	0.147 3,73	1 25,4	1 25,4	0.30 0,136
3/4"	1.050 26,7	0.742 18,8	0.154 3,91	1.1/8 28,6	1.1/8 28,6	0.46 0,209
1"	1.315 33,4	0.957 24,3	0.179 4,55	1.1/2 38,1	1.1/2 38,1	0.93 0,422
1.1/4"	1.660 42,2	1.273 32,5	0.191 4,85	1.7/8 47,6	1.7/8 47,6	1.64 0,744
1.1/2"	1.900 48,3	1.500 38,1	0.200 5,08	2.1/4 57,2	2.1/4 57,2	2.48 1,12
2"	2.375 60,3	1.939 49,3	0.218 5,54	2.1/2 63,5	2.1/2 63,5	3.73 1,69
2.1/2"	2.875 73,0	2.323 59,0	0.276 7,01	3 76,2	3 76,2	6.44 2,92
3"	3.500 88,9	2.900 73,7	0.300 7,62	3.3/8 85,7	3.3/8 85,7	9.45 4,29
3.1/2"	4.000 101,6	3.364 85,4	0.318 8,08	3.3/4 95,3	3.3/4 95,3	12.6 5,72
4"	4.500 114,3	3.826 97,2	0.337 8,56	4.1/8 104,8	4.1/8 104,8	16.4 7,44
5"	5.563 141,3	4.813 122,3	0.375 9,52	4.7/8 123,8	4.7/8 123,8	26.4 12,0
6"	6.625 168,3	5.761 146,3	0.432 10,97	5.5/8 142,8	5.5/8 142,8	42.0 19,1
8"	8.625 219,1	7.625 193,7	0.500 12,70	7 177,8	7 177,8	76.4 34,7
10"	10.750 273,0	9.750 247,7	0.500 12,70	8.1/2 10	8.1/2 10	118 53,5
12"	12.750 323,9	11.750 298,5	0.500 12,70	11 179,4	11 179,4	167 75,7
14"	14.000 355,6	13.000 330,2	0.500 12,70	12 304,8	12 304,8	203 92,1
16"	16.000 406,4	15.000 381,0	0.500 12,70	13.1/2 342,9	13.1/2 342,9	271 122,9
18"	18.000 457,2	17.000 431,8	0.500 12,70	15 381,0	15 381,0	351 159,2
20"	20.000 508,0	19.000 482,6	0.500 12,70	16.1/2 317,5	16.1/2 317,5	442 200,5
22"	22.000 558,8	21.000 533,4	0.500 12,70	13.1/2 419,1	13.1/2 419,1	548 248,6
24"	24.000 609,6	23.000 584,2	0.500 12,70	17 431,8	17 431,8	607 275,3
26"	26.000 660,4	25.000 635,0	0.500 12,70	19.1/2 495,3	19.1/2 495,3	794 360,2
28"	28.000 711,2	27.000 685,8	0.500 12,70	20.1/2 520,7	20.1/2 520,7	930 421,0
30"	30.000 762,0	29.000 736,6	0.500 12,70	22 558,8	22 558,8	1065 483,1
32"	32.000 812,8	31.000 787,4	0.500 12,70	23.1/2 596,9	23.1/2 596,9	1243 559,0
34"	34.000 863,6	33.000 838,2	0.500 12,70	25 635,0	25 635,0	1420 644,1
36"	36.000 914,4	35.000 889,0	0.500 12,70	26.1/2 673,1	26.1/2 673,1	1610 730,3
38"	38.000 965,2	37.000 939,8	0.500 12,70	28 711,2	28 711,2	1790 812,0
40"	40.000 1016,0	39.000 990,6	0.500 12,70	29.1/2 749,3	29.1/2 749,3	1970 895,0
42"	42.000 1066,8	41.000 1041,4	0.500 12,70	30 762	28 711,2	2303 1045
44"	44.000 1117,6	43.000 1092,2	0.500 12,70	32 812,8	30 762	2635 1194
46"	46.000 1168,4	45.000 1143,0	0.500 12,70	33.1/2 850,9	31.1/2 800,1	2967 1346
48"	48.000 1219,2	47.000 1193,8	0.500 12,70	35 889	33 838,2	3300 1499

Dimensions: black figures=inches
blue figures =Millimeters
Abmessungen: schwarze Zahlen=Zoll
blaue Zahlen =Millimeter

Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Reducing Tees

Reduzier-T-Stücke

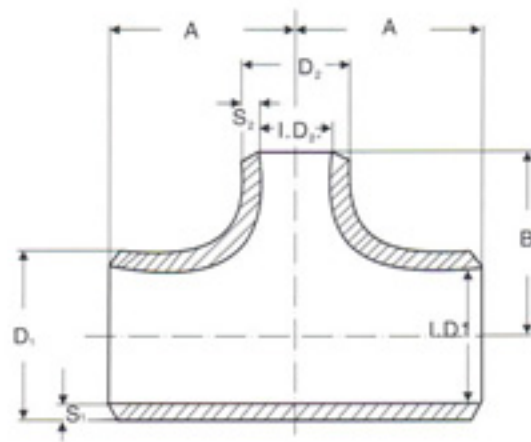
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Standard

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Center to End Run Mittenabstand Durchgang A	Center to End Branch Mittenabstand Abzweig B	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2			
1/2" x 1/2" x 1/4"	0.840 21.3	0.622 15.8	0.109 2.77	0.540 13.7	0.364 9.2	0.088 2.24	1 25.4	1 25.4	0.23 0.104
1/2" x 1/2" x 3/8"	0.840 21.3	0.622 15.8	0.109 2.77	0.675 17.1	0.493 12.5	0.091 2.30	1 25.4	1 25.4	0.23 0.104
3/4" x 3/4" x 3/8"	1.050 26.7	0.824 20.9	0.113 2.87	0.675 17.1	0.493 12.5	0.091 2.30	1.1/8 28.6	1.1/8 28.6	0.33 0.150
3/4" x 3/4" x 1/2"	1.050 26.7	0.824 20.9	0.113 2.87	0.840 21.3	0.622 15.8	0.109 2.77	1.1/8 28.6	1.1/8 28.6	0.34 0.154
1" x 1" x 3/8"	1.315 33.4	1.049 26.6	0.133 3.38	0.675 17.1	0.493 12.5	0.091 2.30	1.1/2 38.1	1.1/2 38.1	0.64 0.290
1" x 1" x 1/2"	1.315 33.4	1.049 26.6	0.133 3.38	0.840 21.3	0.622 15.8	0.109 2.77	1.1/2 38.1	1.1/2 38.1	0.64 0.290
1" x 1" x 3/4"	1.315 33.4	1.049 26.6	0.133 3.38	1.050 26.7	0.824 20.9	0.113 2.87	1.1/2 38.1	1.1/2 38.1	0.65 0.295
1.1/4" x 1.1/4" x 1/2"	1.660 42.2	1.380 35.1	0.140 3.56	0.840 21.3	0.622 15.8	0.109 2.77	1.7/8 47.6	1.7/8 47.6	1.10 0.499
1.1/4" x 1.1/4" x 3/4"	1.660 42.2	1.380 35.1	0.140 3.56	1.050 26.7	0.824 20.9	0.113 2.87	1.7/8 47.6	1.7/8 47.6	1.11 0.503
1.1/4" x 1.1/4" x 1"	1.660 42.2	1.380 35.1	0.140 3.56	1.315 33.4	1.049 26.6	0.133 3.38	1.7/8 47.6	1.7/8 47.6	1.17 0.531
1.1/2" x 1.1/2" x 1/2"	1.900 48.3	1.610 40.9	0.145 3.68	0.840 21.3	0.622 15.8	0.109 2.77	2.1/4 57.2	2.1/4 57.2	1.61 0.730
1.1/2" x 1.1/2" x 3/4"	1.900 48.3	1.610 40.9	0.145 3.68	1.050 26.7	0.824 20.9	0.113 2.87	2.1/4 57.2	2.1/4 57.2	1.61 0.730
1.1/2" x 1.1/2" x 1"	1.900 48.3	1.610 40.9	0.145 3.68	1.315 33.4	1.049 26.6	0.133 3.38	2.1/4 57.2	2.1/4 57.2	1.68 0.762
1.1/2" x 1.1/2" x 1.1/4"	1.900 48.3	1.610 40.9	0.145 3.68	1.660 42.2	1.380 35.1	0.140 3.56	2.1/4 57.2	2.1/4 57.2	1.76 0.798
2" x 2" x 3/4"	2.375 60.3	2.067 52.5	0.154 3.91	1.050 26.7	0.824 20.9	0.113 2.87	2.1/2 63.5	1.3/4 44.5	2.41 1.09
2" x 2" x 1"	2.375 60.3	2.067 52.5	0.154 3.91	1.315 33.4	1.049 26.6	0.133 3.38	2.1/2 63.5	2 50.8	2.47 1.12
2" x 2" x 1.1/4"	2.375 60.3	2.067 52.5	0.154 3.91	1.660 42.2	1.380 35.1	0.140 3.56	2.1/2 63.5	2.1/4 57.2	2.55 1.16
2" x 2" x 1.1/2"	2.375 60.3	2.067 52.5	0.154 3.91	1.900 48.3	1.610 40.9	0.145 3.68	2.1/2 63.5	2.3/8 60.3	2.66 1.21
2.1/2" x 2.1/2" x 1"	2.875 73.0	2.469 62.7	0.203 5.16	1.315 33.4	1.049 26.6	0.133 3.38	3 76.2	2.1/4 57.2	4.33 1.96
2.1/2" x 2.1/2" x 1.1/4"	2.875 73.0	2.469 62.7	0.203 5.16	1.660 42.2	1.380 35.1	0.140 3.56	3 76.2	2.1/2 63.5	4.39 1.99
2.1/2" x 2.1/2" x 1.1/2"	2.875 73.0	2.469 62.7	0.203 5.16	1.900 48.3	1.610 40.9	0.145 3.68	3 76.2	2.5/8 66.7	4.50 2.04
2.1/2" x 2.1/2" x 2"	2.875 73.0	2.469 62.7	0.203 5.16	2.375 60.3	2.067 52.5	0.154 3.91	3 76.2	2.3/4 69.9	4.58 2.08
3" x 3" x 1"	3.500 88.9	3.068 77.9	0.216 5.49	1.315 33.4	1.049 26.6	0.133 3.38	3.3/8 85.7	2.5/8 66.7	6.28 2.85
3" x 3" x 1.1/4"	3.500 88.9	3.068 77.9	0.216 5.49	1.660 42.2	1.380 35.1	0.140 3.56	3.3/8 85.7	2.3/4 69.9	6.34 2.88
3" x 3" x 1.1/2"	3.500 88.9	3.068 77.9	0.216 5.49	1.900 48.3	1.610 40.9	0.145 3.68	3.3/8 85.7	2.7/8 73.0	6.44 2.92
3" x 3" x 2"	3.500 88.9	3.068 77.9	0.216 5.49	2.375 60.3	2.067 52.5	0.154 3.91	3.3/8 85.7	3 76.2	6.51 2.95
3" x 3" x 2.1/2"	3.500 88.9	3.068 77.9	0.216 5.49	2.875 73.0	2.469 62.7	0.203 5.16	3.3/8 85.7	3.1/4 82.6	6.81 3.09
3.1/2" x 3.1/2" x 1.1/2"	4.000 101.6	3.548 90.1	0.226 5.74	1.900 48.3	1.610 40.9	0.145 3.68	3.3/4 95.3	3.1/8 79.4	8.48 3.85
3.1/2" x 3.1/2" x 2"	4.000 101.6	3.548 90.1	0.226 5.74	2.375 60.3	2.067 52.5	0.154 3.91	3.3/4 95.3	3.1/4 82.6	8.48 3.85
3.1/2" x 3.1/2" x 2.1/2"	4.000 101.6	3.548 90.1	0.226 5.74	2.875 73.0	2.469 62.7	0.203 5.16	3.3/4 95.3	3.1/2 88.9	8.79 3.99
3.1/2" x 3.1/2" x 3"	4.000 101.6	3.548 90.1	0.226 5.74	3.500 88.9	3.068 77.9	0.216 5.49	3.3/4 95.3	3.5/8 92.1	9.01 4.09
4" x 4" x 1.1/2"	4.500 114.3	4.026 102.3	0.237 6.02	1.900 48.3	1.610 40.9	0.145 3.68	4.1/8 104.8	3.3/8 85.7	10.9 4.94
4" x 4" x 2"	4.500 114.3	4.026 102.3	0.237 6.02	2.375 60.3	2.067 52.5	0.154 3.91	4.1/8 104.8	3.1/2 88.9	11.0 4.99
4" x 4" x 2.1/2"	4.500 114.3	4.026 102.3	0.237 6.02	2.875 73.0	2.469 62.7	0.203 5.16	4.1/8 104.8	3.3/4 95.3	11.3 5.13
4" x 4" x 3"	4.500 114.3	4.026 102.3	0.237 6.02	3.500 88.9	3.068 77.9	0.216 5.49	4.1/8 104.8	3.7/8 98.4	11.4 5.17
4" x 4" x 3.1/2"	4.500 114.3	4.026 102.3	0.237 6.02	4.000 101.6	3.548 90.1	0.226 5.74	4.1/8 104.8	4 101.6	11.6 5.26
5" x 5" x 2"	5.563 141.3	5.047 128.2	0.258 6.55	2.375 60.3	2.067 52.5	0.154 3.91	4.7/8 123.8	4.1/8 104.8	17.2 7.80
5" x 5" x 2.1/3"	5.563 141.3	5.047 128.2	0.258 6.55	2.875 73.0	2.469 62.7	0.203 5.16	4.7/8 123.8	4.1/4 108.0	17.7 7.89
5" x 5" x 3"	5.563 141.3	5.047 128.2	0.258 6.55	3.500 88.9	3.068 77.9	0.216 5.49	4.7/8 123.8	4.3/8 111.1	17.6 7.98
5" x 5" x 3.1/2"	5.563 141.3	5.047 128.2	0.258 6.55	4.000 101.6	3.548 90.1	0.226 5.74	4.7/8 123.8	4.1/2 114.3	17.8 8.07
5" x 5" x 4"	5.563 141.3	5.047 128.2	0.258 6.55	4.500 114.3	4.026 102.3	0.237 6.02	4.7/8 123.8	4.5/8 117.5	18.1 8.21

Dimensions: black figures=inches
blue figures =Millimeters
Abmessungen: schwarze Zahlen=Zoll
blaue Zahlen =Millimeter

Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Reducing Tees

Reduzier-T-Stücke

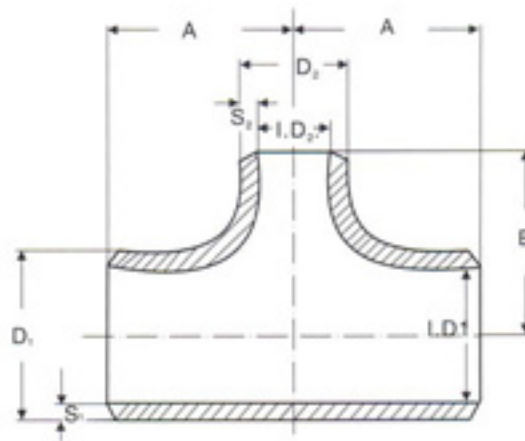
ANSI B 16.9

Standard

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Center to End Run Mittenabstand Durchgang A	Center to End Branch Mittenabstand Abzweig B	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2			
6" × 6" × 2.1/2"	6.625 168,3	6.065 154,1	0.280 7,11	2.875 73,0	2.469 62,7	0.203 5,16	5.5/8 142,9	4.3/4 120,7	25,7 11,66
6" × 6" × 3"	6.625 168,3	6.065 154,1	0.280 7,11	3.500 88,9	3.068 77,9	0.216 5,49	5.5/8 142,9	4.7/8 123,8	25,8 11,7
6" × 6" × 3.1/2"	6.625 168,3	6.065 154,1	0.280 7,11	4.000 101,6	3.548 90,1	0.226 5,74	5.5/8 142,9	5 127,0	26,0 11,8
6" × 6" × 4"	6.625 168,3	6.065 154,1	0.280 7,11	4.500 114,3	4.026 102,3	0.237 6,02	5.5/8 142,9	5.1/8 130,2	26,2 11,9
6" × 6" × 5"	6.625 168,3	6.065 154,1	0.280 7,11	5.563 141,3	5.047 128,2	0.258 6,55	5.5/8 142,9	5.3/8 136,5	26,7 12,1
8" × 8" × 3"	8.625 219,1	7.981 202,7	0.322 8,18	3.500 88,9	3.068 77,9	0.216 5,49	7 177,8	6 152,4	47,6 21,56
8" × 8" × 3.1/2"	8.625 219,1	7.981 202,7	0.322 8,18	4.000 101,6	3.548 90,1	0.226 5,74	7 177,8	6 152,4	47,7 21,64
8" × 8" × 4"	8.625 219,1	7.981 202,7	0.322 8,18	4.500 114,3	4.026 102,3	0.237 6,02	7 177,8	6.1/8 155,6	47,9 21,7
8" × 8" × 5"	8.625 219,1	7.981 202,7	0.322 8,18	5.563 141,3	5.047 128,2	0.258 6,55	7 177,8	6.3/8 161,9	48,1 21,8
8" × 8" × 6"	8.625 219,1	7.981 202,7	0.322 8,18	6.625 168,3	6.065 154,1	0.280 7,11	7 177,8	6.5/8 168,3	48,7 22,1
10" × 10" × 4"	10.750 273,0	10.020 254,5	0.365 9,27	4.500 114,3	4.026 102,3	0.237 6,02	8.1/2 215,9	7.1/4 184,2	81,2 36,8
10" × 10" × 5"	10.750 273,0	10.020 254,5	0.365 9,27	5.563 141,3	5.047 128,2	0.258 6,55	8.1/2 215,9	7.1/2 190,5	81,4 36,9
10" × 10" × 6"	10.750 273,0	10.020 254,5	0.365 9,27	6.625 168,3	6.065 154,1	0.280 7,11	8.1/2 215,9	7.5/8 193,7	81,7 37,1
10" × 10" × 8"	10.750 273,0	10.020 254,5	0.365 9,27	8.625 219,1	7.981 202,7	0.322 8,18	8.1/2 215,9	8 203,2	83,0 37,6
12" × 12" × 5"	12.750 323,93	12.000 304,8	0.375 9,52	5.563 141,3	5.047 128,2	0.258 6,55	10 254,0	8.1/2 215,9	117 53,1
12" × 12" × 6"	12.750 323,93	12.000 304,8	0.375 9,52	6.625 168,3	6.065 154,1	0.280 7,11	10 254,0	8.5/8 219,1	117 53,1
12" × 12" × 8"	12.750 323,93	12.000 304,8	0.375 9,52	8.625 219,1	7.981 202,7	0.322 8,18	10 254,0	9 228,6	118 53,5
12" × 12" × 10"	12.750 323,93	12.000 304,8	0.375 9,52	10.750 273,0	10.020 254,5	0.365 9,27	10 254,0	9.1/2 241,3	121 54,9
14" × 14" × 6"	14.000 355,60	13.250 336,6	0.375 9,52	6.625 168,3	6.065 154,1	0.280 7,11	11 279,4	9.3/8 238,1	142 64,4
14" × 14" × 8"	14.000 355,60	13.250 336,6	0.375 9,52	8.625 219,1	7.981 202,7	0.322 8,18	11 279,4	9.3/4 247,7	143 64,9
14" × 14" × 10"	14.000 355,60	13.250 336,6	0.375 9,52	10.750 273,0	10.020 254,5	0.365 9,27	11 279,4	10.1/8 257,2	144 65,3
14" × 14" × 12"	14.000 355,60	13.250 336,6	0.375 9,52	12.750 323,9	12.000 304,8	0.375 9,52	11 279,4	10.5/8 269,9	147 66,7
16" × 16" × 6"	16.000 88,9	15.250 387,4	0.375 9,52	6.625 168,3	6.065 154,1	0.280 7,11	12 304,8	10.3/8 263,5	176 79,8
16" × 16" × 8"	16.000 88,9	15.250 387,4	0.375 9,52	8.625 219,1	7.981 202,7	0.322 8,18	12 304,8	10.3/4 273,1	185 83,9
16" × 16" × 10"	16.000 88,9	15.250 387,4	0.375 9,52	10.750 273,0	10.020 254,5	0.365 9,27	12 304,8	11.1/8 282,6	204 92,5
16" × 16" × 12"	16.000 88,9	15.250 387,4	0.375 9,52	12.750 323,9	12.000 304,8	0.375 9,52	12 304,8	11.5/8 295,3	210 95,3
16" × 16" × 14"	16.000 88,9	15.250 387,4	0.375 9,52	14.000 355,6	13.250 336,6	0.375 9,52	12 304,8	12 304,8	210 95,3
18" × 18" × 8"	18.000 457,2	17.250 438,2	0.375 9,52	8.625 219,1	7.981 202,7	0.322 8,18	13.1/2 342,9	11.3/4 298,5	231 104,8
18" × 18" × 10"	18.000 457,2	17.250 438,2	0.375 9,52	10.750 273,0	10.020 254,5	0.365 9,27	13.1/2 342,9	12.1/8 308,0	244 110,7
18" × 18" × 12"	18.000 457,2	17.250 438,2	0.375 9,52	12.750 323,9	12.000 304,8	0.375 9,52	13.1/2 342,9	12.5/8 320,7	254 115,2
18" × 18" × 14"	18.000 457,2	17.250 438,2	0.375 9,52	14.000 355,6	13.250 336,6	0.375 9,52	13.1/2 342,9	13 330,2	262 118,8
18" × 18" × 16"	18.000 457,2	17.250 438,2	0.375 9,52	16.000 406,4	15.250 387,4	0.375 9,52	13.1/2 342,9	13 330,2	269 122,0
20" × 20" × 8"	20.000 508,0	19.250 489,0	0.375 9,52	8.625 219,1	7.981 202,7	0.322 8,18	15 381,0	12.3/4 323,9	282 127,9
20" × 20" × 10"	20.000 508,0	19.250 489,0	0.375 9,52	10.750 273,0	10.020 254,5	0.365 9,27	15 381,0	13.1/8 333,4	295 133,8
20" × 20" × 12"	20.000 508,0	19.250 489,0	0.375 9,52	12.750 323,9	12.000 304,8	0.375 9,52	15 381,0	13.5/8 346,4	308 139,7
20" × 20" × 14"	20.000 508,0	19.250 489,0	0.375 9,52	14.000 355,6	13.250 336,6	0.375 9,52	15 381,0	14 355,6	316 143,3
20" × 20" × 16"	20.000 508,0	19.250 489,0	0.375 9,52	16.000 406,4	15.250 387,4	0.375 9,52	15 381,0	14 355,6	329 149,2
20" × 20" × 18"	20.000 508,0	19.250 489,0	0.375 9,52	18.000 457,2	17.250 438,2	0.375 9,52	15 381,0	14.1/2 368,3	342 155,1

Dimensions: black figures=inches
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blaue Zahlen =Millimeter

Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Reducing Tees

Reduzier-T-Stücke

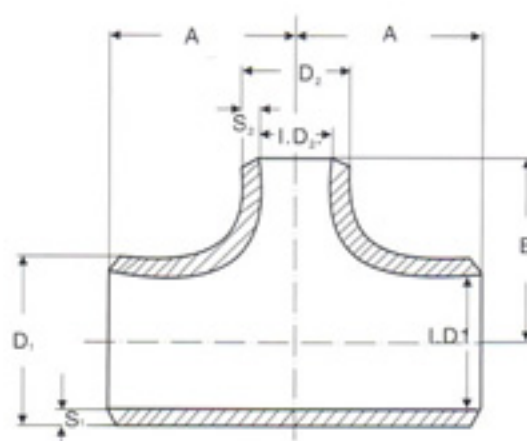
ANSI B 16.9

Standard

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Center to End Run Mittenabstand Durchgang A	Center to End Branch Mittenabstand Abzweig B	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2			
22" x 22" x 12"	22.000 558,8	21.250 539,8	0.375 9,52	12.750 323,9	12.000 304,8	0.375 9,52	16.1/2 419,1	14.5/8 371,5	377 171,0
22" x 22" x 14"	22.000 558,8	21.250 539,8	0.375 9,52	14.000 355,6	13.250 336,6	0.375 9,52	16.1/2 419,1	15 381,0	380 172,4
22" x 22" x 16"	22.000 558,8	21.250 539,8	0.375 9,52	16.000 406,4	15.250 387,4	0.375 9,52	16.1/2 419,1	15 381,0	394 178,7
22" x 22" x 18"	22.000 558,8	21.250 539,8	0.375 9,52	18.000 457,2	17.250 438,2	0.375 9,52	16.1/2 419,1	15.1/2 393,7	408 185,1
22" x 22" x 20"	22.000 558,8	21.250 539,8	0.375 9,52	20.000 508,0	19.250 489,0	0.375 9,52	16.1/2 419,1	16 406,4	423 191,9
24" x 24" x 10"	24.000 609,6	23.250 590,6	0.375 9,52	10.750 273,0	10.020 254,5	0.375 9,52	17 431,8	15.1/8 384,2	394 178,7
24" x 24" x 12"	24.000 609,6	23.250 590,6	0.375 9,52	12.750 323,9	12.000 304,8	0.375 9,52	17 431,8	15.5/8 396,9	409 185,5
24" x 24" x 14"	24.000 609,6	23.250 590,6	0.375 9,52	14.000 355,6	13.250 336,6	0.375 9,52	17 431,8	16 406,4	419 190,1
24" x 24" x 16"	24.000 609,6	23.250 590,6	0.375 9,52	16.000 406,4	15.250 387,4	0.375 9,52	17 431,8	16 406,4	433 196,4
24" x 24" x 18"	24.000 609,6	23.250 590,6	0.375 9,52	18.000 457,2	17.250 438,2	0.375 9,52	17 431,8	16.1/2 419,1	453 205,5
24" x 24" x 20"	24.000 609,6	23.250 590,6	0.375 9,52	20.000 508,0	19.250 489,0	0.375 9,52	17 431,8	17 431,8	453 205,5
26" x 26" x 12"	26.000 660,4	25.250 641,4	0.375 9,52	12.750 323,9	12.000 304,8	0.375 9,52	19.1/2 495,3	16.5/8 422,3	516 234,1
26" x 26" x 14"	26.000 660,4	25.250 641,4	0.375 9,52	14.000 355,6	13.250 336,6	0.375 9,52	19.1/2 495,3	17 431,8	527 239,0
26" x 26" x 16"	26.000 660,4	25.250 641,4	0.375 9,52	16.000 406,4	15.250 387,4	0.375 9,52	19.1/2 495,3	17 431,8	544 246,8
26" x 26" x 18"	26.000 660,4	25.250 641,4	0.375 9,52	18.000 457,2	17.250 438,2	0.375 9,52	19.1/2 495,3	17.1/2 444,5	562 254,9
26" x 26" x 20"	26.000 660,4	25.250 641,4	0.375 9,52	20.000 508,0	19.250 489,0	0.375 9,52	19.1/2 495,3	18 457,2	581 263,5
26" x 26" x 22"	26.000 660,4	25.250 641,4	0.375 9,52	22.000 558,8	21.250 539,8	0.375 9,52	19.1/2 495,3	18.1/2 469,9	598 271,2
26" x 26" x 24"	26.000 660,4	25.250 641,4	0.375 9,52	24.000 609,6	23.250 590,6	0.375 9,52	19.1/2 495,3	19 482,6	616 279,4
28" x 28" x 14"	28.000 711,2	27.250 692,1	0.375 9,52	14.000 355,6	13.250 336,6	0.375 9,52	20.1/2 520,7	18 457,2	604 274,0
28" x 28" x 16"	28.000 711,2	27.250 692,1	0.375 9,52	16.000 406,4	15.250 387,4	0.375 9,52	20.1/2 520,7	18 457,2	624 283,0
28" x 28" x 18"	28.000 711,2	27.250 692,1	0.375 9,52	18.000 457,2	17.250 438,2	0.375 9,52	20.1/2 520,7	18.1/2 496,9	644 292,1
28" x 28" x 20"	28.000 711,2	27.250 692,1	0.375 9,52	20.000 508,0	19.250 489,0	0.375 9,52	20.1/2 520,7	19 482,6	665 301,6
28" x 28" x 22"	28.000 711,2	27.250 692,1	0.375 9,52	22.000 558,8	21.250 539,8	0.375 9,52	20.1/2 520,7	19.1/2 495,3	685 310,7
28" x 28" x 24"	28.000 711,2	27.250 692,1	0.375 9,52	24.000 609,6	23.250 590,6	0.375 9,52	20.1/2 520,7	20 508,0	705 319,8
28" x 28" x 26"	28.000 711,2	27.250 692,1	0.375 9,52	26.000 660,4	25.250 641,4	0.375 9,52	20.1/2 520,7	20.1/2 520,7	717 325,2
30" x 30" x 14"	30.000 762,0	29.250 743,0	0.375 9,52	14.000 355,6	13.250 336,6	0.375 9,52	22 558,8	19 428,6	681 308,9
30" x 30" x 16"	30.000 762,0	29.250 743,0	0.375 9,52	16.000 406,4	15.250 387,4	0.375 9,52	22 558,8	19 428,6	704 319,3
30" x 30" x 18"	30.000 762,0	29.250 743,0	0.375 9,52	18.000 457,2	17.250 438,2	0.375 9,52	22 558,8	19.1/2 495,3	727 329,8
30" x 30" x 20"	30.000 762,0	29.250 743,0	0.375 9,52	20.000 508,0	19.250 489,0	0.375 9,52	22 558,8	20 508,0	749 339,7
30" x 30" x 22"	30.000 762,0	29.250 743,0	0.375 9,52	22.000 558,8	21.250 539,8	0.375 9,52	22 558,8	20.1/2 520,7	772 350,2
30" x 30" x 24"	30.000 762,0	29.250 743,0	0.375 9,52	24.000 609,6	23.250 590,6	0.375 9,52	22 558,8	21 533,4	795 360,6
30" x 30" x 26"	30.000 762,0	29.250 743,0	0.375 9,52	26.000 660,4	25.250 641,4	0.375 9,52	22 558,8	21.1/2 546,1	817 370,6
30" x 30" x 28"	30.000 762,0	29.250 743,0	0.375 9,52	28.000 711,2	27.250 692,1	0.375 9,52	22 558,8	21.1/2 546,1	834 378,3
32" x 32" x 16"	32.000 812,8	31.250 793,7	0.375 9,52	16.000 406,4	15.250 387,4	0.375 9,52	23.1/2 596,9	20 508,0	840 381,0
32" x 32" x 18"	32.000 812,8	31.250 793,7	0.375 9,52	18.000 457,2	17.250 438,2	0.375 9,52	23.1/2 596,9	20.1/2 520,7	860 390,0
32" x 32" x 20"	32.000 812,8	31.250 793,7	0.375 9,52	20.000 508,0	19.250 489,0	0.375 9,52	23.1/2 596,9	21 533,4	895 406,0
32" x 32" x 24"	32.000 812,8	31.250 793,7	0.375 9,52	24.000 609,6	23.250 590,6	0.375 9,52	23.1/2 596,9	22 558,8	904 410,0
32" x 32" x 26"	32.000 812,8	31.250 793,7	0.375 9,52	26.000 660,4	25.250 641,4	0.375 9,52	23.1/2 596,9	22.1/2 571,5	927 420,5
32" x 32" x 28"	32.000 812,8	31.250 793,7	0.375 9,52	28.000 711,2	27.250 692,1	0.375 9,52	23.1/2 596,9	22.1/2 571,5	946 429,1
32" x 32" x 30"	32.000 812,8	31.250 793,7	0.375 9,52	30.000 762,0	29.250 743,0	0.375 9,52	23.1/2 596,9	23 584,2	973 441,4
34" x 34" x 16"	34.000 863,6	33.250 844,6	0.375 9,52	16.000 406,4	15.250 387,4	0.375 9,52	25 635,0	21 533,4	907 411,4

Dimensions: black figures=inches
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Weights: black figures=Pounds
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Reducing Tees

Reduzier-T-Stücke

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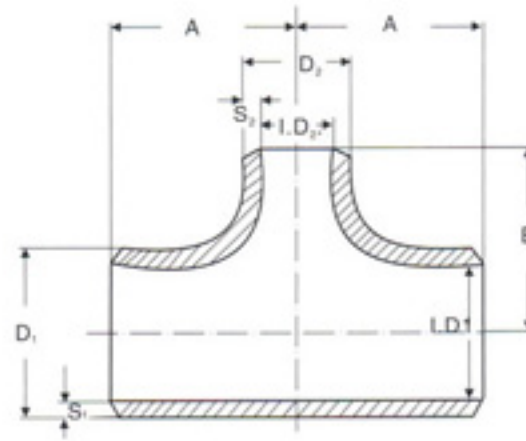
Standard

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Center to End Run Mittenabstand Durchgang A	Center to End Branch Mittenabstand Abzweig B	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2			
34" x 34" x 18"	34.000 863.6	33.250 844.6	0.375 9.52	18.000 457.2	17.250 438.2	0.375 9.52	25 635.0	21.1/2 546.1	933 423.2
34" x 34" x 20"	34.000 863.6	33.250 844.6	0.375 9.52	20.000 508.0	19.250 489.0	0.375 9.52	25 635.0	22 558.8	960 435.4
34" x 34" x 22"	34.000 863.6	33.250 844.6	0.375 9.52	22.000 558.8	21.250 539.8	0.375 9.52	25 635.0	22.1/2 571.5	986 447.2
34" x 34" x 24"	34.000 863.6	33.250 844.6	0.375 9.52	24.000 609.6	23.250 590.6	0.375 9.52	25 635.0	23 584.2	1013 459.5
34" x 34" x 26"	34.000 863.6	33.250 844.6	0.375 9.52	26.000 660.4	25.250 641.4	0.375 9.52	25 635.0	23.1/2 596.6	1039 471.3
34" x 34" x 28"	34.000 863.6	33.250 844.6	0.375 9.52	28.000 711.2	27.250 692.1	0.375 9.52	25 635.0	23.1/2 596.6	1059 480.4
34" x 34" x 30"	24.000 609.6	33.250 844.6	0.375 9.52	30.000 762.0	29.250 743.0	0.375 9.52	25 635.0	24 609.6	1085 492.1
34" x 34" x 32"	34.000 863.6	33.250 844.6	0.375 9.52	32.000 812.8	31.250 793.7	0.375 9.52	25 635.0	24.1/2 622.3	1111 503.9
36" x 36" x 16"	36.000 914.4	35.250 895.4	0.375 9.52	16.000 406.4	15.250 387.4	0.375 9.52	26.1/2 673.1	22 558.8	1015 460.4
36" x 36" x 18"	36.000 914.4	35.250 895.4	0.375 9.52	18.000 457.2	17.250 438.2	0.375 9.52	26.1/2 673.1	22.1/2 571.5	1044 473.6
36" x 36" x 20"	36.000 914.4	35.250 895.4	0.375 9.52	20.000 508.0	19.250 489.0	0.375 9.52	26.1/2 673.1	23 584.2	1072 486.3
36" x 36" x 22"	36.000 914.4	35.250 895.4	0.375 9.52	22.000 558.8	21.250 539.8	0.375 9.52	26.1/2 673.1	23.1/2 596.6	1100 499.0
36" x 36" x 24"	36.000 914.4	35.250 895.4	0.375 9.52	24.000 609.6	23.250 590.6	0.375 9.52	26.1/2 673.1	24 609.6	1129 512.1
36" x 36" x 26"	36.000 914.4	35.250 895.4	0.375 9.52	26.000 660.4	25.250 641.4	0.375 9.52	26.1/2 673.1	24.1/2 622.3	1158 525.3
36" x 36" x 28"	36.000 914.4	35.250 895.4	0.375 9.52	28.000 711.2	27.250 692.1	0.375 9.52	26.1/2 673.1	24.1/2 622.3	1181 535.7
36" x 36" x 30"	36.000 914.4	35.250 895.4	0.375 9.52	30.000 762.0	29.250 743.0	0.375 9.52	26.1/2 673.1	25 635.0	1207 547.5
36" x 36" x 32"	36.000 914.4	35.250 895.4	0.375 9.52	32.000 812.8	31.250 793.7	0.375 9.52	26.1/2 673.1	25.1/2 647.7	1237 561.1
36" x 36" x 34"	36.000 914.4	35.250 895.4	0.375 9.52	34.000 863.6	33.250 844.6	0.375 9.52	26.1/2 673.1	26 660.4	1264 573.3
38" x 38" x 18"	38.000 965.2	37.250 946.1	0.375 9.52	18.000 457.2	17.250 438.2	0.375 9.52	28.1 711.2	23.1/2 596.9	
38" x 38" x 20"	38.000 965.2	37.250 946.1	0.375 9.52	20.000 508.0	19.250 489.0	0.375 9.52	28.1 711.2	24 609.6	
38" x 38" x 24"	38.000 965.2	37.250 946.1	0.375 9.52	24.000 609.6	23.250 590.6	0.375 9.52	28.1 711.2	25 635.0	
38" x 38" x 26"	38.000 965.2	37.250 946.1	0.375 9.52	26.000 660.4	25.250 641.4	0.375 9.52	28.1 711.2	25.1/2 647.7	
38" x 38" x 28"	38.000 965.2	37.250 946.1	0.375 9.52	28.000 711.2	27.250 692.1	0.375 9.52	28.1 711.2	25.1/2 647.7	
38" x 38" x 30"	38.000 965.2	37.250 946.1	0.375 9.52	30.000 762.0	29.250 743.0	0.375 9.52	28.1 711.2	26.1/2 673.1	
38" x 38" x 32"	38.000 965.2	37.250 946.1	0.375 9.52	32.000 812.8	31.250 793.7	0.375 9.52	28.1 711.2	27 685.8	
38" x 38" x 34"	38.000 965.2	37.250 946.1	0.375 9.52	34.000 863.6	33.250 844.6	0.375 9.52	28.1 711.2	27.1/2 698.5	
38" x 38" x 36"	38.000 965.2	37.250 946.1	0.375 9.52	36.000 914.4	35.250 895.4	0.375 9.52	28.1 711.2	28 711.2	
40" x 40" x 20"	40.000 1016.0	39.250 996.9	0.375 9.52	20.000 508.0	19.250 489.0	0.375 9.52	29.1/2 749.3	25 635.0	
40" x 40" x 22"	40.000 1016.0	39.250 996.9	0.375 9.52	22.000 558.8	21.250 539.8	0.375 9.52	29.1/2 749.3	25.1/2 647.7	
40" x 40" x 24"	40.000 1016.0	39.250 996.9	0.375 9.52	24.000 609.6	23.250 590.6	0.375 9.52	29.1/2 749.3	26 660.4	
40" x 40" x 26"	40.000 1016.0	39.250 996.9	0.375 9.52	26.000 660.4	25.250 641.4	0.375 9.52	29.1/2 749.3	26.1/2 673.1	
40" x 40" x 28"	40.000 1016.0	39.250 996.9	0.375 9.52	28.000 711.2	27.250 692.1	0.375 9.52	29.1/2 749.3	26.1/2 673.1	
40" x 40" x 30"	30.000 762.0	39.250 996.9	0.375 9.52	30.000 762.0	29.250 743.0	0.375 9.52	29.1/2 749.3	27.1/2 698.5	
40" x 40" x 32"	40.000 1016.0	39.250 996.9	0.375 9.52	32.000 812.8	31.250 793.7	0.375 9.52	29.1/2 749.3	28 711.2	
40" x 40" x 34"	40.000 1016.0	39.250 996.9	0.375 9.52	34.000 863.6	33.250 844.6	0.375 9.52	29.1/2 749.3	28.1/2 723.9	
40" x 40" x 36"	40.000 1016.0	39.250 996.9	0.375 9.52	36.000 914.4	35.250 895.4	0.375 9.52	29.1/2 749.3	29 736.6	
40" x 40" x 38"	40.000 1016.0	39.250 996.9	0.375 9.52	38.000 965.2	37.250 946.1	0.375 9.52	29.1/2 749.3	29.1/2 749.3	
42" x 42" x 16"	42.000 1066.8	41.250 1047.8	0.375 9.52	16.000 406.4	15.250 387.4	0.375 9.52	30.0 762.0	25 635.0	
42" x 42" x 18"	42.000 1066.8	41.250 1047.8	0.375 9.52	18.000 457.2	17.250 438.2	0.375 9.52	30.0 762.0	25.1/2 647.7	
42" x 42" x 20"	42.000 1066.8	41.250 1047.8	0.375 9.52	20.000 508.0	19.250 489.0	0.375 9.52	30.0 762.0	26 660.4	
42" x 42" x 22"	42.000 1066.8	41.250 1047.8	0.375 9.52	22.000 558.8	21.250 539.8	0.375 9.52	30.0 762.0	26 660.4	

Upon request
Auf Anfrage

Dimensions: black figures=inches
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blaue Zahlen =Millimeter

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Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Reducing Tees

Reduzier-T-Stücke

ANSI B 16.9

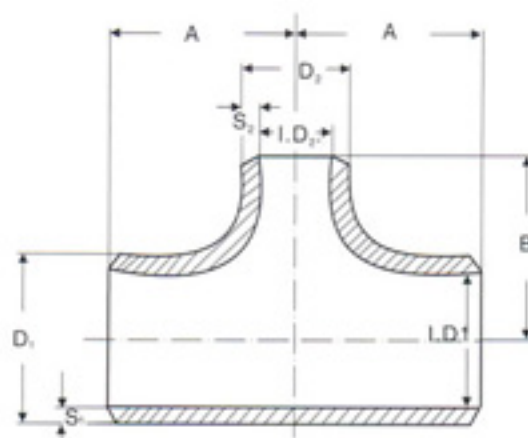
Standard

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Center to End Run Mittenabstand Durchgang A	Center to End Branch Mittenabstand Abzweig B	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2			
42" x 42" x 24"	42.000 1066.8	41.250 1047.8	0.375 9.52	24.000 609.6	23.250 590.6	0.375 9.52	30 762.0	26 660.4	
42" x 42" x 26"	42.000 1066.8	41.250 1047.8	0.375 9.52	26.000 660.4	25.250 641.4	0.375 9.52	30 762.0	27.1/2 698.5	
42" x 42" x 28"	42.000 1066.8	41.250 1047.8	0.375 9.52	28.000 711.2	27.250 692.1	0.375 9.52	30 762.0	27.1/2 698.5	
42" x 42" x 30"	42.000 1066.8	41.250 1047.8	0.375 9.52	30.000 762.0	29.250 743.0	0.375 9.52	30.0 762.0	23 584.2	
42" x 42" x 32"	42.000 1066.8	41.250 1047.8	0.375 9.52	32.000 812.8	31.250 793.7	0.375 9.52	30.0 762.0	28 711.2	
42" x 42" x 34"	42.000 1066.8	41.250 1047.8	0.375 9.52	34.000 863.6	33.250 844.6	0.375 9.52	30.0 762.0	28 711.2	
42" x 42" x 36"	42.000 1066.8	41.250 1047.8	0.375 9.52	36.000 914.4	35.250 895.4	0.375 9.52	30.0 762.0	28 711.2	
44" x 44" x 24"	44.000 1117.6	43.250 1098.5	0.375 9.52	24.000 609.6	23.250 590.6	0.375 9.52	32 812.8	27.1/2 698.5	
44" x 44" x 26"	44.000 1117.6	43.250 1098.5	0.375 9.52	26.000 660.4	25.250 641.4	0.375 9.52	32 812.8	27.1/2 698.5	
44" x 44" x 28"	44.000 1117.6	43.250 1098.5	0.375 9.52	28.000 711.2	27.250 692.1	0.375 9.52	32 812.8	27.1/2 698.5	
44" x 44" x 30"	44.000 1117.6	43.250 1098.5	0.375 9.52	30.000 762.0	29.250 743.0	0.375 9.52	32 812.8	28 711.2	
44" x 44" x 32"	44.000 1117.6	43.250 1098.5	0.375 9.52	32.000 812.8	31.250 793.7	0.375 9.52	32 812.8	28 711.2	
44" x 44" x 34"	44.000 1117.6	43.250 1098.5	0.375 9.52	34.000 863.6	33.250 844.6	0.375 9.52	32 812.8	28.1/2 723.9	
44" x 44" x 36"	44.000 1117.6	43.250 1098.5	0.375 9.52	36.000 914.4	35.250 895.4	0.375 9.52	32 812.8	28.1/2 723.9	
44" x 44" x 38"	44.000 1117.6	43.250 1098.5	0.375 9.52	38.000 965.2	37.250 946.1	0.375 9.52	32 812.8	29.1/2 749.3	
44" x 44" x 40"	44.000 1117.6	43.250 1098.5	0.375 9.52	40.000 1016.0	39.250 996.9	0.375 9.52	32 812.8	29.1/2 749.3	
44" x 44" x 42"	44.000 1117.6	43.250 1098.5	0.375 9.52	42.000 1066.8	41.250 1047.8	0.375 9.52	32 812.8	30 762.0	
46" x 46" x 24"	46.000 1168.4	45.250 1149.3	0.375 9.52	24.000 609.6	23.250 590.6	0.375 9.52	33.1/2 850.9	28.1/2 723.9	
46" x 46" x 26"	46.000 1168.4	45.250 1149.3	0.375 9.52	26.000 660.4	25.250 641.4	0.375 9.52	33.1/2 850.9	29 736.6	
46" x 46" x 28"	46.000 1168.4	45.250 1149.3	0.375 9.52	28.000 711.2	27.250 692.1	0.375 9.52	33.1/2 850.9	29 736.6	
46" x 46" x 30"	46.000 1168.4	45.250 1149.3	0.375 9.52	30.000 762.0	29.250 743.0	0.375 9.52	33.1/2 850.9	29 736.6	
46" x 46" x 32"	46.000 1168.4	45.250 1149.3	0.375 9.52	32.000 812.8	31.250 793.7	0.375 9.52	33.1/2 850.9	29.1/2 749.3	
46" x 46" x 34"	46.000 1168.4	45.250 1149.3	0.375 9.52	34.000 863.6	33.250 844.6	0.375 9.52	33.1/2 850.9	29.1/2 749.3	
46" x 46" x 36"	46.000 1168.4	45.250 1149.3	0.375 9.52	36.000 914.4	35.250 895.4	0.375 9.52	33.1/2 850.9	30 762.0	
46" x 46" x 38"	46.000 1168.4	45.250 1149.3	0.375 9.52	38.000 965.2	37.250 946.1	0.375 9.52	33.1/2 850.9	30 762.0	
46" x 46" x 40"	46.000 1168.4	45.250 1149.3	0.375 9.52	40.000 1016.0	39.250 996.9	0.375 9.52	33.1/2 850.9	30.1/2 774.7	
46" x 46" x 42"	46.000 1168.4	45.250 1149.3	0.375 9.52	42.000 1066.8	41.250 1047.8	0.375 9.52	33.1/2 850.9	31 787.4	
46" x 46" x 44"	46.000 1168.4	45.250 1149.3	0.375 9.52	44.000 1117.6	43.250 1098.5	0.375 9.52	33.1/2 850.9	31.1/2 800.1	
48" x 48" x 24"	48.000 1219.2	47.250 1193.8	0.375 9.52	24.000 609.6	23.250 590.6	0.375 9.52	35 889.0	29 736.6	
48" x 48" x 26"	48.000 1219.2	47.000 1200.1	0.375 9.52	26.000 660.4	25.250 641.4	0.375 9.52	35 889.0	30 762.0	
48" x 48" x 28"	48.000 1219.2	47.000 1200.1	0.375 9.52	28.000 711.2	27.250 692.1	0.375 9.52	35 889.0	30 762.0	
48" x 48" x 30"	48.000 1219.2	47.000 1200.1	0.375 9.52	30.000 762.0	29.250 743.0	0.375 9.52	35 889.0	30 762.0	
48" x 48" x 32"	48.000 1219.2	47.000 1200.1	0.375 9.52	32.000 812.8	31.250 793.7	0.375 9.52	35 889.0	31 787.4	
48" x 48" x 34"	48.000 1219.2	47.000 1200.1	0.375 9.52	34.000 863.6	33.250 844.6	0.375 9.52	35 889.0	31 787.4	
48" x 48" x 36"	48.000 1219.2	47.000 1200.1	0.375 9.52	36.000 914.4	35.250 895.4	0.375 9.52	35 889.0	31 787.4	
48" x 48" x 38"	48.000 1219.2	47.000 1200.1	0.375 9.52	38.000 965.2	37.250 946.1	0.375 9.52	35 889.0	32 812.8	
48" x 48" x 40"	48.000 1219.2	47.000 1200.1	0.375 9.52	40.000 1016.0	39.250 996.9	0.375 9.52	35 889.0	32 812.8	
48" x 48" x 42"	48.000 1219.2	47.000 1200.1	0.375 9.52	42.000 1066.8	41.250 1047.8	0.375 9.52	35 889.0	32 812.8	
48" x 48" x 44"	48.000 1219.2	47.000 1200.1	0.375 9.52	44.000 1117.6	43.250 1098.5	0.375 9.52	35 889.0	33 838.2	
48" x 48" x 46"	48.000 1219.2	47.000 1200.1	0.375 9.52	46.000 1168.4	45.250 1149.3	0.375 9.52	35 889.0	33 838.2	

Upon request
Auf Anfrage

Dimensions: black figures=inches
blue figures =Millimeters
Abmessungen: schwarze Zahlen=Zoll
blaue Zahlen =Millimeter

Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Reducing Tees

Reduzier-T-Stücke

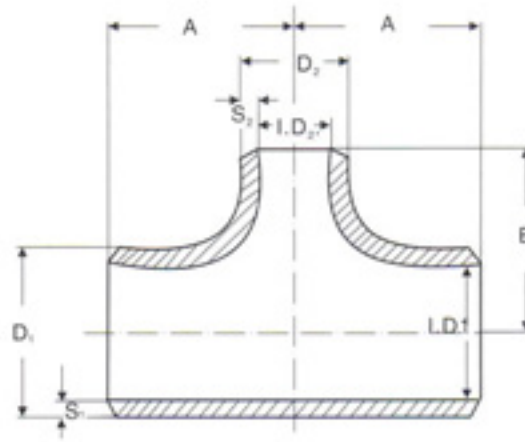
ANSI B 16.9

Extra Strong

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Center to End Run Mittenabstand Durchgang A	Center to End Branch Mittenabstand Abzweig B	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2			
1/2" x 1/2" x 1/4"	0.840 21.3	0.546 13.9	0.147 3.73	0.540 13.7	0.302 7.70	0.119 3.00	1 25.4	1 25.4	0.27 0.122
1/2" x 1/2" x 3/8"	0.840 21.3	0.546 13.9	0.147 3.73	0.675 17.1	0.423 10.74	0.126 3.18	1 25.4	1 25.4	0.28 0.127
3/4" x 3/4" x 3/8"	1.050 26.7	0.742 18.8	0.154 3.91	0.675 17.1	0.423 10.74	0.126 3.18	1 1/8 28.6	1 1/8 28.6	0.41 0.186
3/4" x 3/4" x 1/2"	1.050 26.7	0.742 18.8	0.154 3.91	0.840 21.3	0.546 13.8	0.147 3.73	1 1/8 28.6	1 1/8 28.6	0.42 0.191
1" x 1" x 3/8"	1.315 33.4	0.957 24.3	0.179 4.55	0.675 17.1	0.423 10.74	0.126 3.18	1 1/2 38.1	1 1/2 38.1	0.79 0.358
1" x 1" x 1/2"	1.315 33.4	0.957 24.3	0.179 4.55	0.840 21.3	0.546 13.8	0.147 3.73	1 1/2 38.1	1 1/2 38.1	0.79 0.358
1" x 1" x 3/4"	1.315 33.4	0.957 24.3	0.179 4.55	1.050 26.7	0.742 18.8	0.154 3.91	1 1/2 38.1	1 1/2 38.1	0.80 0.363
1 1/4" x 1 1/4" x 1/2"	1.660 42.2	1.278 32.5	0.191 4.85	0.840 21.3	0.546 13.8	0.147 3.73	1 7/8 47.6	1 7/8 47.6	1.37 0.621
1 1/4" x 1 1/4" x 3/4"	1.660 42.2	1.278 32.5	0.191 4.85	1.050 26.7	0.742 18.8	0.154 3.91	1 7/8 47.6	1 7/8 47.6	1.38 0.626
1 1/4" x 1 1/4" x 1"	1.660 42.2	1.278 32.5	0.191 4.85	1.315 33.4	0.957 24.3	0.179 4.55	1 7/8 47.6	1 7/8 47.6	1.45 0.658
1 1/2" x 1 1/2" x 1/2"	1.900 48.3	1.500 38.1	0.200 5.08	0.840 21.3	0.546 13.8	0.147 3.73	2 1/4 57.2	2 1/4 57.2	2.02 0.916
1 1/2" x 1 1/2" x 3/4"	1.900 48.3	1.500 38.1	0.200 5.08	1.050 26.7	0.742 18.8	0.154 3.91	2 1/4 57.2	2 1/4 57.2	2.03 0.921
1 1/2" x 1 1/2" x 1"	1.900 48.3	1.500 38.1	0.200 5.08	1.315 33.4	0.957 24.3	0.179 4.55	2 1/4 57.2	2 1/4 57.2	2.09 0.948
1 1/2" x 1 1/2" x 1 1/4"	1.900 48.3	1.500 38.1	0.200 5.08	1.660 42.2	1.278 32.5	0.191 4.85	2 1/4 57.2	2 1/4 57.2	2.20 0.998
2" x 2" x 3/4"	2.375 60.3	1.939 49.3	0.218 5.54	1.050 26.7	0.742 18.8	0.154 3.91	2 1/2 63.5	1 3/4 44.5	3.11 1.41
2" x 2" x 1"	2.375 60.3	1.939 49.3	0.218 5.54	1.315 33.4	0.957 24.3	0.179 4.55	2 1/2 63.5	2 50.8	3.17 1.44
2" x 2" x 1 1/4"	2.375 60.3	1.939 49.3	0.218 5.54	1.660 42.2	1.278 32.5	0.191 4.85	2 1/2 63.5	2 1/4 57.2	3.26 1.48
2" x 2" x 1 1/2"	2.375 60.3	1.939 49.3	0.218 5.54	1.900 48.3	1.500 38.1	0.200 5.08	2 1/2 63.5	2 3/8 60.3	3.40 1.54
2 1/2" x 2 1/2" x 1"	2.875 73.0	2.323 59.0	0.276 7.01	1.315 33.4	0.957 24.3	0.179 4.55	3 76.2	2 1/4 57.2	5.46 2.48
2 1/2" x 2 1/2" x 1 1/4"	2.875 73.0	2.323 59.0	0.276 7.01	1.660 42.2	1.278 32.5	0.191 4.85	3 76.2	2 1/2 63.5	5.53 2.51
2 1/2" x 2 1/2" x 1 1/2"	2.875 73.0	2.323 59.0	0.276 7.01	1.900 48.3	1.500 38.1	0.200 5.08	3 76.2	2 5/8 66.7	5.66 2.57
2 1/2" x 2 1/2" x 2"	2.875 73.0	2.323 59.0	0.276 7.01	2.375 60.3	1.939 49.3	0.218 5.54	3 76.2	2 3/4 69.9	5.75 2.61
3" x 3" x 1"	3.500 88.9	2.900 73.7	0.300 7.62	1.315 33.4	0.957 24.3	0.179 4.55	3 3/8 85.7	2 5/8 66.7	8.12 3.68
3" x 3" x 1 1/4"	3.500 88.9	2.900 73.7	0.300 7.62	1.660 42.2	1.278 32.5	0.191 4.85	3 3/8 85.7	2 3/4 69.9	8.17 3.71
3" x 3" x 1 1/2"	3.500 88.9	2.900 73.7	0.300 7.62	1.900 48.3	1.500 38.1	0.200 5.08	3 3/8 85.7	2 7/8 73.0	8.30 3.76
3" x 3" x 2"	3.500 88.9	2.900 73.7	0.300 7.62	2.375 60.3	1.939 49.3	0.218 5.54	3 3/8 85.7	3 76.2	8.36 3.79
3" x 3" x 2 1/2"	3.500 88.9	2.900 73.7	0.300 7.62	2.875 73.0	2.323 59.0	0.276 7.01	3 3/8 85.7	3 1/4 82.6	8.60 3.90
3 1/2" x 3 1/2" x 1 1/2"	4.000 101.6	3.364 85.4	0.318 8.08	1.900 48.3	1.500 38.1	0.200 5.08	3 3/4 95.3	3 1/8 79.4	11.1 5.03
3 1/2" x 3 1/2" x 2"	4.000 101.6	3.364 85.4	0.318 8.08	2.375 60.3	1.939 49.3	0.218 5.54	3 3/4 95.3	3 1/4 82.6	11.2 5.08
3 1/2" x 3 1/2" x 2 1/2"	4.000 101.6	3.364 85.4	0.318 8.08	2.875 73.0	2.323 59.0	0.276 7.01	3 3/4 95.3	3 1/2 88.9	11.5 5.22
3 1/2" x 3 1/2" x 3"	4.000 101.6	3.364 85.4	0.318 8.08	3.500 88.9	2.900 73.7	0.300 7.62	3 3/4 95.3	3 5/8 92.1	11.7 5.31
4" x 4" x 1 1/2"	4.500 114.3	3.826 97.2	0.337 8.56	1.900 48.3	1.500 38.1	0.200 5.08	4 1/8 104.8	3 3/8 85.7	14.4 6.53
4" x 4" x 2"	4.500 114.3	3.826 97.2	0.337 8.56	2.375 60.3	1.939 49.3	0.218 5.54	4 1/8 104.8	3 1/2 88.9	14.5 6.58
4" x 4" x 2 1/2"	4.500 114.3	3.826 97.2	0.337 8.56	2.875 73.0	2.323 59.0	0.276 7.01	4 1/8 104.8	3 3/4 95.3	14.7 6.67
4" x 4" x 3"	4.500 114.3	3.826 97.2	0.337 8.56	3.500 88.9	2.900 73.7	0.300 7.62	4 1/8 104.8	3 7/8 98.4	15.0 6.80
4" x 4" x 3 1/2"	4.500 114.3	3.826 97.2	0.337 8.56	4.000 101.6	3.364 85.4	0.318 8.08	4 1/8 104.8	4 101.6	15.3 6.94
5" x 5" x 2"	5.563 141.3	4.813 122.3	0.375 9.52	2.375 60.3	1.939 49.3	0.218 5.54	4 7/8 123.8	4 1/8 104.8	23.4 10.6
5" x 5" x 2 1/3"	5.563 141.3	4.813 122.3	0.375 9.52	2.875 73.0	2.323 59.0	0.276 7.01	4 7/8 123.8	4 1/4 108.0	23.6 10.7
5" x 5" x 3"	5.563 141.3	4.813 122.3	0.375 9.52	3.500 88.9	2.900 73.7	0.300 7.62	4 7/8 123.8	4 3/8 111.1	23.7 10.75
5" x 5" x 3 1/2"	5.563 141.3	4.813 122.3	0.375 9.52	4.000 101.6	3.364 85.4	0.318 8.08	4 7/8 123.8	4 1/2 114.3	23.9 10.8
5" x 5" x 4"	5.563 141.3	4.813 122.3	0.375 9.52	4.500 114.3	3.826 97.2	0.337 8.56	4 7/8 123.8	4 5/8 117.5	24.2 11.0

Dimensions: black figures=inches
blue figures =millimeters
Abmessungen: schwarze Zahlen=Zoll
blaue Zahlen =Millimeter

Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Reducing Tees

Reduzier-T-Stücke

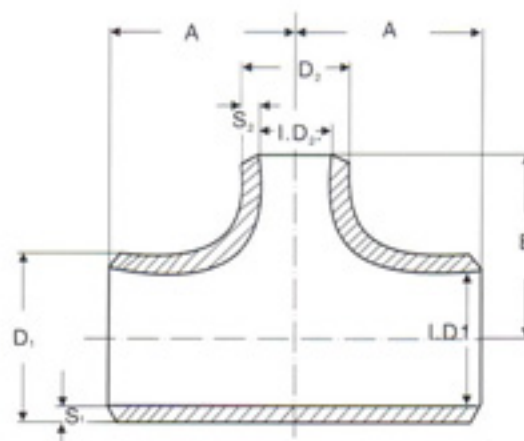
ANSI B 16.9

Extra Strong

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Center to End Run Mittenabstand Durchgang A	Center to End Branch Mittenabstand Abzweig B	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2			
6" × 6" × 2.1/2"	6.625 168,3	5.761 146,3	0.432 10,97	2.875 73,0	2.323 59,0	0.203 5,16	5.5/8 142,9	4.3/4 120,7	36,9 16,7
6" × 6" × 3"	6.625 168,3	5.761 146,3	0.432 10,97	3.500 88,9	2.900 73,7	0.216 5,49	5.5/8 142,9	4.7/8 123,8	36,9 16,7
6" × 6" × 3.1/2"	6.625 168,3	5.761 146,3	0.432 10,97	4.000 101,6	3.364 85,4	0.226 5,74	5.5/8 142,9	5 127,0	37,1 16,8
6" × 6" × 4"	6.625 168,3	5.761 146,3	0.432 10,97	4.500 114,3	3.826 97,2	0.237 6,02	5.5/8 142,9	5.1/8 130,2	37,2 19,9
6" × 6" × 5"	6.625 168,3	5.761 146,3	0.432 10,97	5.563 141,3	4.813 122,3	0.258 6,55	5.5/8 142,9	5.3/8 136,5	37,8 17,1
8" × 8" × 3"	8.625 219,1	7.625 193,7	0.500 12,70	3.500 88,9	2.900 73,7	0.216 5,49	7 177,8	6 152,4	69,1 31,3
8" × 8" × 3.1/2"	8.625 219,1	7.625 193,7	0.500 12,70	4.000 101,6	3.364 85,4	0.226 5,74	7 177,8	6 152,4	69,1 31,3
8" × 8" × 4"	8.625 219,1	7.625 193,7	0.500 12,70	4.500 114,3	3.826 97,2	0.237 6,02	7 177,8	6.1/8 155,6	69,3 31,4
8" × 8" × 5"	8.625 219,1	7.625 193,7	0.500 12,70	5.563 141,3	4.813 122,3	0.258 6,55	7 177,8	6.3/8 161,9	69,5 31,5
8" × 8" × 6"	8.625 219,1	7.625 193,7	0.500 12,70	6.625 168,3	5.761 146,3	0.280 7,11	7 177,8	6.5/8 168,3	70,4 31,9
10" × 10" × 4"	10.750 273,0	9.750 247,7	0.500 12,70	4.500 114,3	3.826 97,2	0.237 6,02	8.1/2 215,9	7.1/4 184,2	106 48,1
10" × 10" × 5"	10.750 273,0	9.750 247,7	0.500 12,70	5.563 141,3	4.813 122,3	0.258 6,55	8.1/2 215,9	7.1/2 190,5	106 48,1
10" × 10" × 6"	10.750 273,0	9.750 247,7	0.500 12,70	6.625 168,3	5.761 146,3	0.280 7,11	8.1/2 215,9	7.5/8 193,7	108 49,0
10" × 10" × 8"	10.750 273,0	9.750 247,7	0.500 12,70	8.625 219,1	7.625 193,7	0.322 8,18	8.1/2 215,9	8 203,2	109 49,4
12" × 12" × 5"	12.750 323,93	11.750 298,5	0.500 12,70	5.563 141,3	4.813 122,3	0.258 6,55	10 254,0	8.1/2 215,9	151 68,5
12" × 12" × 6"	12.750 323,93	11.750 298,5	0.500 12,70	6.625 168,3	5.761 146,3	0.280 7,11	10 254,0	8.5/8 219,1	151 68,5
12" × 12" × 8"	12.750 323,93	11.750 298,5	0.500 12,70	8.625 219,1	7.625 193,7	0.322 8,18	10 254,0	9 228,6	153 69,4
12" × 12" × 10"	12.750 323,93	11.750 298,5	0.500 12,70	10.750 273,0	9.750 247,7	0.365 9,27	10 254,0	9.1/2 241,3	155 70,3
14" × 14" × 6"	14.000 355,60	13.000 330,2	0.500 12,70	6.625 168,3	5.761 146,3	0.280 7,11	11 279,4	9.3/8 238,1	183 83,0
14" × 14" × 8"	14.000 355,60	13.000 330,2	0.500 12,70	8.625 219,1	7.625 193,7	0.322 8,18	11 279,4	9.3/4 247,7	184 83,5
14" × 14" × 10"	14.000 355,60	13.000 330,2	0.500 12,70	10.750 273,0	9.750 247,7	0.365 9,27	11 279,4	10.1/8 257,2	185 83,9
14" × 14" × 12"	14.000 355,60	13.000 330,2	0.500 12,70	12.750 323,9	11.750 298,5	0.375 9,52	11 279,4	10.5/8 269,9	189 85,7
16" × 16" × 6"	16.000 88,9	15.000 381,0	0.500 12,70	6.625 168,3	5.761 146,3	0.280 7,11	12 304,8	10.3/8 263,5	223 101,2
16" × 16" × 8"	16.000 88,9	15.000 381,0	0.500 12,70	8.625 219,1	7.625 193,7	0.322 8,18	12 304,8	10.3/4 273,1	233 105,7
16" × 16" × 10"	16.000 88,9	15.000 381,0	0.500 12,70	10.750 273,0	9.750 247,7	0.365 9,27	12 304,8	11.1/8 282,6	244 110,7
16" × 16" × 12"	16.000 88,9	15.000 381,0	0.500 12,70	12.750 323,9	11.750 298,5	0.375 9,52	12 304,8	11.5/8 295,3	255 115,7
16" × 16" × 14"	16.000 88,9	15.000 381,0	0.500 12,70	14.000 355,6	13.000 333,2	0.375 9,52	12 304,8	12 304,8	261 118,4
18" × 18" × 8"	18.000 457,2	17.000 431,8	0.500 12,70	8.625 219,1	7.625 193,7	0.322 8,18	13.1/2 342,9	11.3/4 298,5	294 133,4
18" × 18" × 10"	18.000 457,2	17.000 431,8	0.500 12,70	10.750 273,0	9.750 247,7	0.365 9,27	13.1/2 342,9	12.1/8 308,0	307 139,3
18" × 18" × 12"	18.000 457,2	17.000 431,8	0.500 12,70	12.750 323,9	11.750 298,5	0.375 9,52	13.1/2 342,9	12.5/8 320,7	320 145,1
18" × 18" × 14"	18.000 457,2	17.000 431,8	0.500 12,70	14.000 355,6	13.000 333,2	0.375 9,52	13.1/2 342,9	13 330,2	328 148,8
18" × 18" × 16"	18.000 457,2	17.000 431,8	0.500 12,70	16.000 406,4	15.000 381,0	0.375 9,52	13.1/2 342,9	13 330,2	336 152,4
20" × 20" × 8"	20.000 508,0	19.000 482,6	0.500 12,70	8.625 219,1	7.625 193,7	0.322 8,18	15 381,0	12.3/4 323,9	361 163,7
20" × 20" × 10"	20.000 508,0	19.000 482,6	0.500 12,70	10.750 273,0	9.750 247,7	0.365 9,27	15 381,0	13.1/8 333,4	376 170,6
20" × 20" × 12"	20.000 508,0	19.000 482,6	0.500 12,70	12.750 323,9	11.750 298,5	0.375 9,52	15 381,0	13.5/8 346,4	390 176,9
20" × 20" × 14"	20.000 508,0	19.000 482,6	0.500 12,70	14.000 355,6	13.000 333,2	0.375 9,52	15 381,0	14 355,6	399 181,0
20" × 20" × 16"	20.000 508,0	19.000 482,6	0.500 12,70	16.000 406,4	15.000 381,0	0.375 9,52	15 381,0	14 355,6	413 187,3
20" × 20" × 18"	20.000 508,0	19.000 482,6	0.500 12,70	18.000 457,2	17.000 431,8	0.375 9,52	15 381,0	14.1/2 368,3	427 193,7

Dimensions: black figures=inches
blue figures =Millimeters
Abmessungen: schwarze Zahlen=Zoll
blaue Zahlen =Millimeter

Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Reducing Tees

Reduzier-T-Stücke

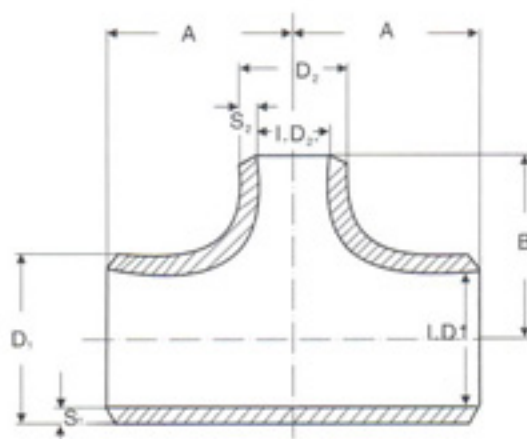
ANSI B 16.9

Extra Strong

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Center to End Run Mittenabstand Durchgang A	Center to End Branch Mittenabstand Abzweig B	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2			
22" x 22" x 12"	22.000 558.8	21.000 533.4	0.500 12.70	12.750 323.9	11.750 298.5	0.500 12.70	16.1/2 419.1	14.5/8 371.5	468 212.2
22" x 22" x 14"	22.000 558.8	21.000 533.4	0.500 12.70	14.000 355.6	13.000 330.2	0.500 12.70	16.1/2 419.1	15 381.0	479 217.3
22" x 22" x 16"	22.000 558.8	21.000 533.4	0.500 12.70	16.000 406.4	15.000 381.0	0.500 12.70	16.1/2 419.1	15 381.0	497 225.4
22" x 22" x 18"	22.000 558.8	21.000 533.4	0.500 12.70	18.000 457.2	17.000 431.8	0.500 12.70	16.1/2 419.1	15.1/2 393.7	514 233.2
22" x 22" x 20"	22.000 558.8	21.000 533.4	0.500 12.70	20.000 508.0	19.000 482.6	0.500 12.70	16.1/2 419.1	16 406.4	532 241.3
24" x 24" x 10"	24.000 609.6	23.000 584.2	0.500 12.70	10.750 273.0	9.750 247.7	0.500 12.70	17 431.8	15.1/8 384.2	502 227.7
24" x 24" x 12"	24.000 609.6	23.000 584.2	0.500 12.70	12.750 323.9	11.750 298.5	0.500 12.70	17 431.8	15.5/8 396.9	518 235.0
24" x 24" x 14"	24.000 609.6	23.000 584.2	0.500 12.70	14.000 355.6	13.000 330.2	0.500 12.70	17 431.8	16 406.4	529 240.0
24" x 24" x 16"	24.000 609.6	23.000 584.2	0.500 12.70	16.000 406.4	15.000 381.0	0.500 12.70	17 431.8	16 406.4	544 246.8
24" x 24" x 18"	24.000 609.6	23.000 584.2	0.500 12.70	18.000 457.2	17.000 431.8	0.500 12.70	17 431.8	16.1/2 419.1	564 255.8
24" x 24" x 20"	24.000 609.6	23.000 584.2	0.500 12.70	20.000 508.0	19.000 482.6	0.500 12.70	17 431.8	17 431.8	575 260.8
26" x 26" x 12"	26.000 660.4	25.000 635.0	0.500 12.70	12.750 323.9	11.750 298.5	0.500 12.70	19.1/2 495.3	16.5/8 422.3	649 294.4
26" x 26" x 14"	26.000 660.4	25.000 635.0	0.500 12.70	14.000 355.6	13.000 330.2	0.500 12.70	19.1/2 495.3	17 431.8	662 300.3
26" x 26" x 16"	26.000 660.4	25.000 635.0	0.500 12.70	16.000 406.4	15.000 381.0	0.500 12.70	19.1/2 495.3	17 431.8	684 310.3
26" x 26" x 18"	26.000 660.4	25.000 635.0	0.500 12.70	18.000 457.2	17.000 431.8	0.500 12.70	19.1/2 495.3	17.1/2 444.5	706 320.2
26" x 26" x 20"	26.000 660.4	25.000 635.0	0.500 12.70	20.000 508.0	19.000 482.6	0.500 12.70	19.1/2 495.3	18 457.2	728 330.2
26" x 26" x 22"	26.000 660.4	25.000 635.0	0.500 12.70	22.000 558.8	21.000 539.8	0.500 12.70	19.1/2 495.3	18.1/2 469.9	749 339.7
26" x 26" x 24"	26.000 660.4	25.000 635.0	0.500 12.70	24.000 609.6	23.000 584.2	0.500 12.70	19.1/2 495.3	19 482.6	771 349.7
28" x 28" x 14"	28.000 711.2	27.000 685.8	0.500 12.70	14.000 355.6	13.000 330.2	0.500 12.70	20.1/2 520.7	18 457.2	763 346.0
28" x 28" x 16"	28.000 711.2	27.000 685.8	0.500 12.70	16.000 406.4	15.000 381.0	0.500 12.70	20.1/2 520.7	18 457.2	787 357.0
28" x 28" x 18"	28.000 711.2	27.000 685.8	0.500 12.70	18.000 457.2	17.000 431.8	0.500 12.70	20.1/2 520.7	18.1/2 496.9	813 368.8
28" x 28" x 20"	28.000 711.2	27.000 685.8	0.500 12.70	20.000 508.0	19.000 482.6	0.500 12.70	20.1/2 520.7	19 482.6	837 380.0
28" x 28" x 22"	28.000 711.2	27.000 685.8	0.500 12.70	22.000 558.8	21.000 539.8	0.500 12.70	20.1/2 520.7	19.1/2 495.3	860 390.0
28" x 28" x 24"	28.000 711.2	27.000 685.8	0.500 12.70	24.000 609.6	23.000 584.2	0.500 12.70	20.1/2 520.7	20 508.0	883 400.5
28" x 28" x 26"	28.000 711.2	27.000 685.8	0.500 12.70	26.000 660.4	25.000 635.0	0.500 12.70	20.1/2 520.7	20.1/2 520.7	905 410.5
30" x 30" x 14"	30.000 762.0	29.000 736.6	0.500 12.70	14.000 355.6	13.000 330.2	0.500 12.70	22 558.8	19 482.6	865 392.4
30" x 30" x 16"	30.000 762.0	29.000 736.6	0.500 12.70	16.000 406.4	15.000 381.0	0.500 12.70	22 558.8	19 482.6	890 403.7
30" x 30" x 18"	30.000 762.0	29.000 736.6	0.500 12.70	18.000 457.2	17.000 431.8	0.500 12.70	22 558.8	19.1/2 495.3	920 417.3
30" x 30" x 20"	30.000 762.0	29.000 736.6	0.500 12.70	20.000 508.0	19.000 482.6	0.500 12.70	22 558.8	20 508.0	945 428.6
30" x 30" x 22"	30.000 762.0	29.000 736.6	0.500 12.70	22.000 558.8	21.000 539.8	0.500 12.70	22 558.8	20.1/2 520.7	970 440.0
30" x 30" x 24"	30.000 762.0	29.000 736.6	0.500 12.70	24.000 609.6	23.000 584.2	0.500 12.70	22 558.8	21 533.4	995 451.3
30" x 30" x 26"	30.000 762.0	29.000 736.6	0.500 12.70	26.000 660.4	25.000 635.0	0.500 12.70	22 558.8	21.1/2 546.1	1020 462.7
30" x 30" x 28"	30.000 762.0	29.000 736.6	0.500 12.70	28.000 711.2	27.000 685.8	0.500 12.70	22 558.8	21.1/2 546.1	1040 471.7
32" x 32" x 16"	32.000 812.8	31.000 787.4	0.500 12.70	16.000 406.4	15.000 381.0	0.500 12.70	23.1/2 596.9	20 508.0	1017 461.0
32" x 32" x 18"	32.000 812.8	31.000 787.4	0.500 12.70	18.000 457.2	17.000 431.8	0.500 12.70	23.1/2 596.9	20.1/2 520.7	1047 475.0
32" x 32" x 20"	32.000 812.8	31.000 787.4	0.500 12.70	20.000 508.0	19.000 482.6	0.500 12.70	23.1/2 596.9	21 533.4	1075 487.6
32" x 32" x 24"	32.000 812.8	31.000 787.4	0.500 12.70	24.000 609.6	23.000 584.2	0.500 12.70	23.1/2 596.9	22 558.8	1132 513.5
32" x 32" x 26"	32.000 812.8	31.000 787.4	0.500 12.70	26.000 660.4	25.000 635.0	0.500 12.70	23.1/2 596.9	22.1/2 571.5	1160 526.2
32" x 32" x 28"	32.000 812.8	31.000 787.4	0.500 12.70	28.000 711.2	27.000 685.8	0.500 12.70	23.1/2 596.9	22.1/2 571.5	1182 536.2
32" x 32" x 30"	32.000 812.8	31.000 787.4	0.500 12.70	30.000 762.0	29.000 736.6	0.500 12.70	23.1/2 596.9	23 584.2	1198 543.4
34" x 34" x 16"	34.000 863.6	33.000 838.2	0.500 12.70	16.000 406.4	15.000 381.0	0.500 12.70	25 635.0	21 533.4	1145 519.4

Dimensions: black figures=inches
blue figures =Millimeters
Abmessungen: schwarze Zahlen=Zoll
blaue Zahlen =Millimeter

Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Reducing Tees

Reduzier-T-Stücke

ANSI B 16.9

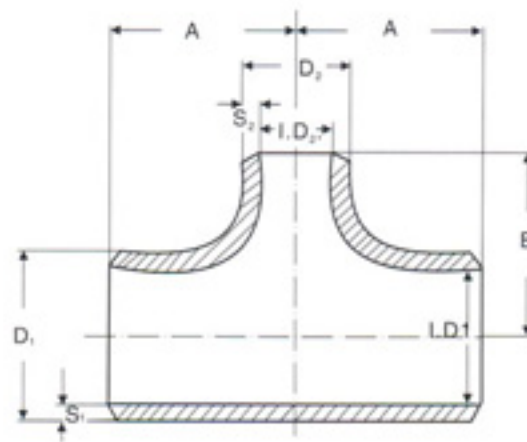
Extra Strong

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Center to End Run Mittenabstand Durchgang A	Center to End Branch Mittenabstand Abzweig B	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2			
34" x 34" x 18"	34.000 863,6	33.000 838,2	0.500 12,70	18.000 457,2	17.000 431,8	0.500 12,70	25 635,0	21,1/2 546,1	1175 532,9
34" x 34" x 20"	34.000 863,6	33.000 838,2	0.500 12,70	20.000 508,0	19.000 482,6	0.500 12,70	25 635,0	22 558,8	1205 546,6
34" x 34" x 22"	34.000 863,6	33.000 838,2	0.500 12,70	22.000 558,8	21.000 533,4	0.500 12,70	25 635,0	22,1/2 571,5	1240 562,5
34" x 34" x 24"	34.000 863,6	33.000 838,2	0.500 12,70	24.000 609,6	23.000 584,2	0.500 12,70	25 635,0	23 584,2	1270 576,1
34" x 34" x 26"	34.000 863,6	33.000 838,2	0.500 12,70	26.000 660,4	25.000 635,0	0.500 12,70	25 635,0	23,1/2 596,6	1300 589,7
34" x 34" x 28"	34.000 863,6	33.000 838,2	0.500 12,70	28.000 711,2	27.000 685,8	0.500 12,70	25 635,0	23,1/2 596,6	1325 601,0
34" x 34" x 30"	24.000 609,6	33.000 838,2	0.500 12,70	30.000 762,0	29.000 736,6	0.500 12,70	25 635,0	24 609,6	1355 614,6
34" x 34" x 32"	34.000 863,6	33.000 838,2	0.500 12,70	32.000 812,8	31.000 787,4	0.500 12,70	25 635,0	24,1/2 622,3	1390 630,5
36" x 36" x 16"	36.000 914,4	35.000 889,0	0.500 12,70	16.000 406,4	15.000 381,0	0.500 12,70	26,1/2 673,1	22 558,8	1280 580,6
36" x 36" x 18"	36.000 914,4	35.000 889,0	0.500 12,70	18.000 457,2	17.000 431,8	0.500 12,70	26,1/2 673,1	22,1/2 571,5	1315 596,5
36" x 36" x 20"	36.000 914,4	35.000 889,0	0.500 12,70	20.000 508,0	19.000 482,6	0.500 12,70	26,1/2 673,1	23 584,2	1345 610,1
36" x 36" x 22"	36.000 914,4	35.000 889,0	0.500 12,70	22.000 558,8	21.000 533,4	0.500 12,70	26,1/2 673,1	23,1/2 596,6	1380 626,0
36" x 36" x 24"	36.000 914,4	35.000 889,0	0.500 12,70	24.000 609,6	23.000 584,2	0.500 12,70	26,1/2 673,1	24 609,6	1415 641,8
36" x 36" x 26"	36.000 914,4	35.000 889,0	0.500 12,70	26.000 660,4	25.000 635,0	0.500 12,70	26,1/2 673,1	24,1/2 622,3	1440 653,2
36" x 36" x 28"	36.000 914,4	35.000 889,0	0.500 12,70	28.000 711,2	27.000 685,8	0.500 12,70	26,1/2 673,1	24,1/2 622,3	1475 669,0
36" x 36" x 30"	36.000 914,4	35.000 889,0	0.500 12,70	30.000 762,0	29.000 736,6	0.500 12,70	26,1/2 673,1	25 635,0	1510 684,9
36" x 36" x 32"	36.000 914,4	35.000 889,0	0.500 12,70	32.000 812,8	31.000 787,4	0.500 12,70	26,1/2 673,1	25,1/2 647,7	1540 698,5
36" x 36" x 34"	36.000 914,4	35.000 889,0	0.500 12,70	34.000 863,6	33.000 838,2	0.500 12,70	26,1/2 673,1	26 660,4	1575 714,4
38" x 38" x 18"	38.000 965,2	37.000 939,8	0.500 12,70	18.000 457,2	17.000 431,8	0.500 12,70	28,1 711,2	23,1/2 596,9	
38" x 38" x 20"	38.000 965,2	37.000 939,8	0.500 12,70	20.000 508,0	19.000 482,6	0.500 12,70	28,1 711,2	24 609,6	
38" x 38" x 24"	38.000 965,2	37.000 939,8	0.500 12,70	24.000 609,6	23.000 584,2	0.500 12,70	28,1 711,2	25 635,0	
38" x 38" x 26"	38.000 965,2	37.000 939,8	0.500 12,70	26.000 660,4	25.000 635,0	0.500 12,70	28,1 711,2	25,1/2 647,7	
38" x 38" x 28"	38.000 965,2	37.000 939,8	0.500 12,70	28.000 711,2	27.000 685,8	0.500 12,70	28,1 711,2	25,1/2 647,7	
38" x 38" x 30"	38.000 965,2	37.000 939,8	0.500 12,70	30.000 762,0	29.000 736,6	0.500 12,70	28,1 711,2	26,1/2 673,1	
38" x 38" x 32"	38.000 965,2	37.000 939,8	0.500 12,70	32.000 812,8	31.000 787,4	0.500 12,70	28,1 711,2	27 685,8	
38" x 38" x 34"	38.000 965,2	37.000 939,8	0.500 12,70	34.000 863,6	33.000 838,2	0.500 12,70	28,1 711,2	27,1/2 698,5	
38" x 38" x 36"	38.000 965,2	37.000 939,8	0.500 12,70	36.000 914,4	35.000 889,0	0.500 12,70	28,1 711,2	28 711,2	
40" x 40" x 20"	40.000 1016,0	39.000 990,6	0.500 12,70	20.000 508,0	19.000 482,6	0.500 12,70	29,1/2 749,3	25 635,0	
40" x 40" x 22"	40.000 1016,0	39.000 990,6	0.500 12,70	22.000 558,8	21.000 533,4	0.500 12,70	29,1/2 749,3	25,1/2 647,7	
40" x 40" x 24"	40.000 1016,0	39.000 990,6	0.500 12,70	24.000 609,6	23.000 584,2	0.500 12,70	29,1/2 749,3	26 660,4	
40" x 40" x 26"	40.000 1016,0	39.000 990,6	0.500 12,70	26.000 660,4	25.000 635,0	0.500 12,70	29,1/2 749,3	26,1/2 673,1	
40" x 40" x 28"	40.000 1016,0	39.000 990,6	0.500 12,70	28.000 711,2	27.000 685,8	0.500 12,70	29,1/2 749,3	26,1/2 673,1	
40" x 40" x 30"	30.000 762,0	39.000 990,6	0.500 12,70	30.000 762,0	29.000 736,6	0.500 12,70	29,1/2 749,3	27,1/2 698,5	
40" x 40" x 32"	40.000 1016,0	39.000 990,6	0.500 12,70	32.000 812,8	31.000 787,4	0.500 12,70	29,1/2 749,3	28 711,2	
40" x 40" x 34"	40.000 1016,0	39.000 990,6	0.500 12,70	34.000 863,6	33.000 838,2	0.500 12,70	29,1/2 749,3	28,1/2 723,9	
40" x 40" x 36"	40.000 1016,0	39.000 990,6	0.500 12,70	36.000 914,4	35.000 889,0	0.500 12,70	29,1/2 749,3	29 736,6	
40" x 40" x 38"	40.000 1016,0	39.000 990,6	0.500 12,70	38.000 965,2	37.000 939,8	0.500 12,70	29,1/2 749,3	29,1/2 749,3	
42" x 42" x 16"	42.000 1066,8	41.000 1041,4	0.500 12,70	16.000 406,4	15.000 381,0	0.500 12,70	30,0 762,0	25 635,0	
42" x 42" x 18"	42.000 1066,8	41.000 1041,4	0.500 12,70	18.000 457,2	17.000 431,8	0.500 12,70	30,0 762,0	25,1/2 647,7	
42" x 42" x 20"	42.000 1066,8	41.000 1041,4	0.500 12,70	20.000 508,0	19.000 482,6	0.500 12,70	30,0 762,0	26 660,4	
42" x 42" x 22"	42.000 1066,8	41.000 1041,4	0.500 12,70	22.000 558,8	21.000 533,4	0.500 12,70	30,0 762,0	26 660,4	

Upon request
Auf Anfrage

Dimensions: black figures=inches
blue figures =Millimeters
Abmessungen: schwarze Zahlen=Zoll
blaue Zahlen =Millimeter

Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Reducing Tees

Reduzier-T-Stücke

ANSI B 16.9

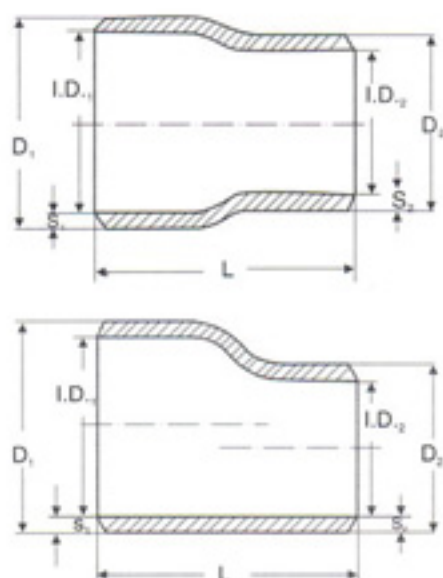
Extra Strong

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Center to End Run Mittenabstand Durchgang A	Center to End Branch Mittenabstand Abzweig B	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2			
42" x 42" x 24"	42.000 1066.8	41.000 1041.4	0.500 12.70	24.000 609.6	23.000 584.2	0.500 12.70	30 762.0	26 660.4	
42" x 42" x 26"	42.000 1066.8	41.000 1041.4	0.500 12.70	26.000 660.4	25.000 635.0	0.500 12.70	30 762.0	27.1/2 698.5	
42" x 42" x 28"	42.000 1066.8	41.000 1041.4	0.500 12.70	28.000 711.2	27.000 685.8	0.500 12.70	30 762.0	27.1/2 698.5	
42" x 42" x 30"	42.000 1066.8	41.000 1041.4	0.500 12.70	30.000 762.0	29.000 736.6	0.500 12.70	30.0 762.0	23 584.2	
42" x 42" x 32"	42.000 1066.8	41.000 1041.4	0.500 12.70	32.000 812.8	31.000 787.4	0.500 12.70	30.0 762.0	28 711.2	
42" x 42" x 34"	42.000 1066.8	41.000 1041.4	0.500 12.70	34.000 863.6	33.000 838.2	0.500 12.70	30.0 762.0	28 711.2	
42" x 42" x 36"	42.000 1066.8	41.000 1041.4	0.500 12.70	36.000 914.4	35.000 889.0	0.500 12.70	30.0 762.0	28 711.2	
44" x 44" x 24"	44.000 1117.6	43.000 1092.2	0.500 12.70	24.000 609.6	23.000 584.2	0.500 12.70	32 812.8	27.1/2 698.5	
44" x 44" x 26"	44.000 1117.6	43.000 1092.2	0.500 12.70	26.000 660.4	25.000 635.0	0.500 12.70	32 812.8	27.1/2 698.5	
44" x 44" x 28"	44.000 1117.6	43.000 1092.2	0.500 12.70	28.000 711.2	27.000 685.8	0.500 12.70	32 812.8	27.1/2 698.5	
44" x 44" x 30"	44.000 1117.6	43.000 1092.2	0.500 12.70	30.000 762.0	29.000 736.6	0.500 12.70	32 812.8	28 711.2	
44" x 44" x 32"	44.000 1117.6	43.000 1092.2	0.500 12.70	32.000 812.8	31.000 787.4	0.500 12.70	32 812.8	28 711.2	
44" x 44" x 34"	44.000 1117.6	43.000 1092.2	0.500 12.70	34.000 863.6	33.000 838.2	0.500 12.70	32 812.8	28.1/2 723.9	
44" x 44" x 36"	44.000 1117.6	43.000 1092.2	0.500 12.70	36.000 914.4	35.000 889.0	0.500 12.70	32 812.8	28.1/2 723.9	
44" x 44" x 38"	44.000 1117.6	43.000 1092.2	0.500 12.70	38.000 965.2	37.000 939.8	0.500 12.70	32 812.8	29.1/2 749.3	
44" x 44" x 40"	44.000 1117.6	43.000 1092.2	0.500 12.70	40.000 1016.0	39.000 990.9	0.500 12.70	32 812.8	29.1/2 749.3	
44" x 44" x 42"	44.000 1117.6	43.000 1092.2	0.500 12.70	42.000 1066.8	41.000 1041.4	0.500 12.70	32 812.8	30 762.0	
46" x 46" x 24"	46.000 1168.4	45.000 1143.0	0.500 12.70	24.000 609.6	23.000 584.2	0.500 12.70	33.1/2 850.9	28.1/2 723.9	
46" x 46" x 26"	46.000 1168.4	45.000 1143.0	0.500 12.70	26.000 660.4	25.000 635.0	0.500 12.70	33.1/2 850.9	29 736.6	
46" x 46" x 28"	46.000 1168.4	45.000 1143.0	0.500 12.70	28.000 711.2	27.000 685.8	0.500 12.70	33.1/2 850.9	29 736.6	
46" x 46" x 30"	46.000 1168.4	45.000 1143.0	0.500 12.70	30.000 762.0	29.000 736.6	0.500 12.70	33.1/2 850.9	29 736.6	
46" x 46" x 32"	46.000 1168.4	45.000 1143.0	0.500 12.70	32.000 812.8	31.000 787.4	0.500 12.70	33.1/2 850.9	29.1/2 749.3	
46" x 46" x 34"	46.000 1168.4	45.000 1143.0	0.500 12.70	34.000 863.6	33.000 838.2	0.500 12.70	33.1/2 850.9	29.1/2 749.3	
46" x 46" x 36"	46.000 1168.4	45.000 1143.0	0.500 12.70	36.000 914.4	35.000 889.0	0.500 12.70	33.1/2 850.9	30 762.0	
46" x 46" x 38"	46.000 1168.4	45.000 1143.0	0.500 12.70	38.000 965.2	37.000 939.8	0.500 12.70	33.1/2 850.9	30 762.0	
46" x 46" x 40"	46.000 1168.4	45.000 1143.0	0.500 12.70	40.000 1016.0	39.000 990.9	0.500 12.70	33.1/2 850.9	30.1/2 774.7	
46" x 46" x 42"	46.000 1168.4	45.000 1143.0	0.500 12.70	42.000 1066.8	41.000 1041.4	0.500 12.70	33.1/2 850.9	31 787.4	
46" x 46" x 44"	46.000 1168.4	45.000 1143.0	0.500 12.70	44.000 1117.6	43.000 1092.2	0.500 12.70	33.1/2 850.9	31.1/2 800.1	
48" x 48" x 24"	48.000 1219.2	47.000 1193.8	0.500 12.70	24.000 609.6	23.000 584.2	0.500 12.70	35 889.0	29 736.6	
48" x 48" x 26"	48.000 1219.2	47.000 1193.8	0.500 12.70	26.000 660.4	25.000 635.0	0.500 12.70	35 889.0	30 762.0	
48" x 48" x 28"	48.000 1219.2	47.000 1193.8	0.500 12.70	28.000 711.2	27.000 685.8	0.500 12.70	35 889.0	30 762.0	
48" x 48" x 30"	48.000 1219.2	47.000 1193.8	0.500 12.70	30.000 762.0	29.000 736.6	0.500 12.70	35 889.0	30 762.0	
48" x 48" x 32"	48.000 1219.2	47.000 1193.8	0.500 12.70	32.000 812.8	31.000 787.4	0.500 12.70	35 889.0	31 787.4	
48" x 48" x 34"	48.000 1219.2	47.000 1193.8	0.500 12.70	34.000 863.6	33.000 838.2	0.500 12.70	35 889.0	31 787.4	
48" x 48" x 36"	48.000 1219.2	47.000 1193.8	0.500 12.70	36.000 914.4	35.000 889.0	0.500 12.70	35 889.0	31 787.4	
48" x 48" x 38"	48.000 1219.2	47.000 1193.8	0.500 12.70	38.000 965.2	37.000 939.8	0.500 12.70	35 889.0	32 812.8	
48" x 48" x 40"	48.000 1219.2	47.000 1193.8	0.500 12.70	40.000 1016.0	39.000 990.9	0.500 12.70	35 889.0	32 812.8	
48" x 48" x 42"	48.000 1219.2	47.000 1193.8	0.500 12.70	42.000 1066.8	41.000 1041.4	0.500 12.70	35 889.0	32 812.8	
48" x 48" x 44"	48.000 1219.2	47.000 1193.8	0.500 12.70	44.000 1117.6	43.000 1092.2	0.500 12.70	35 889.0	33 838.2	
48" x 48" x 46"	48.000 1219.2	47.000 1193.8	0.500 12.70	46.000 1168.4	45.000 1143.0	0.500 12.70	35 889.0	33 838.2	

Upon request
Auf Anfrage

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blaue Zahlen =Millimeter

Weights: black figures=Pounds
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Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Concentric Reducers

Eccentric Reducers

Konzentrische ReduzierStücke

Exzentrische ReduzierStücke

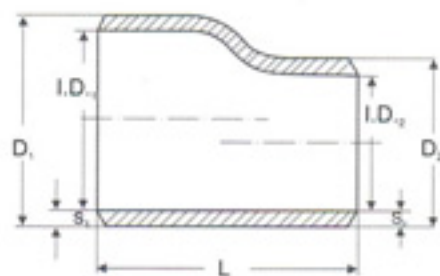
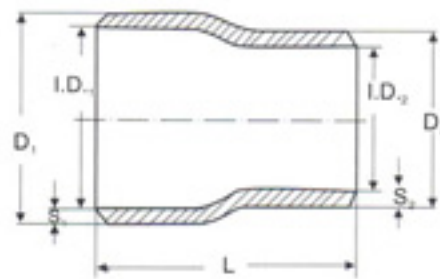
ANSI B 16.9

Standard

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Length Bauhöhe L	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2		
3/4" x 3/8"	1.050 26.7	0.824 20.9	0.113 2.87	0.675 17.1	0.493 12.5	0.091 2.30	1.1/2 38.1	0.21 0.09
3/4" x 1/2"	1.050 26.7	0.824 20.9	0.113 2.87	0.840 21.3	0.622 15.8	0.109 2.77	1.1/2 38.1	0.21 0.09
1" x 3/8"	1.315 33.4	1.049 26.6	0.133 3.38	0.675 17.1	0.493 12.5	0.091 2.30	2 50.8	0.30 0.14
1" x 1/2"	1.315 33.4	1.049 26.6	0.133 3.38	0.840 21.3	0.622 15.8	0.109 2.77	2 50.8	0.31 0.14
1" x 3/4"	1.315 33.4	1.049 26.6	0.133 3.38	1.050 26.7	0.824 20.9	0.113 2.87	2 50.8	0.31 0.14
1.1/4" x 1/2"	1.660 42.2	1.380 35	0.140 3.56	0.840 21.3	0.622 15.8	0.109 2.77	2 50.8	0.43 0.14
1.1/4" x 3/4"	1.660 42.2	1.380 35	0.140 3.56	1.050 26.7	0.824 20.9	0.113 2.87	2 50.8	0.44 0.20
1.1/4" x 1"	1.660 42.2	1.380 35	0.140 3.56	1.315 33.4	1.049 26.6	0.133 3.30	2 50.8	0.45 0.20
1.1/2" x 1/2"	1.900 48.8	1.610 40.9	0.145 3.68	0.840 21.3	0.622 15.8	0.109 2.77	2.1/2 63.5	0.45 0.20
1.1/2" x 3/4"	1.900 48.8	1.610 40.9	0.145 3.68	1.050 26.7	0.824 20.9	0.113 2.87	2.1/2 63.5	0.48 0.22
1.1/2" x 1"	1.900 48.8	1.610 40.9	0.145 3.68	1.315 33.4	1.049 26.6	0.133 3.30	2.1/2 63.5	0.53 0.24
1.1/2" x 1.1/4"	1.900 48.8	1.610 40.9	0.145 3.68	1.660 42.2	1.380 35.1	0.140 3.56	2.1/2 63.5	0.57 0.26
2" x 3/4"	2.375 60.3	2.067 52.5	0.154 3.91	1.050 26.7	0.824 20.9	0.113 2.87	3 76.2	0.73 0.33
2" x 1"	2.375 60.3	2.067 52.5	0.154 3.91	1.315 33.4	1.049 26.6	0.133 3.30	3 76.2	0.82 0.37
2" x 1.1/4"	2.375 60.3	2.067 52.5	0.154 3.91	1.660 42.2	1.380 35.1	0.140 3.56	3 76.2	0.87 0.39
2" x 1.1/2"	2.375 60.3	2.067 52.5	0.154 3.91	1.900 48.3	1.610 40.9	0.145 3.68	3 76.2	0.90 0.41
2.1/2" x 1"	2.875 72.0	2.469 62.7	0.203 5.16	1.315 33.4	1.049 26.6	0.133 3.30	3.1/2 88.9	1.30 0.59
2.1/2" x 1.1/4"	2.875 72.0	2.469 62.7	0.203 5.16	1.660 42.2	1.380 35.1	0.140 3.56	3.1/2 88.9	1.47 0.67
2.1/2" x 1.1/2"	2.875 72.0	2.469 62.7	0.203 5.16	1.900 48.3	1.610 40.9	0.145 3.68	3.1/2 88.9	1.51 0.68
2.1/2" x 2"	2.875 72.0	2.469 62.7	0.203 5.16	2.375 60.3	2.067 52.5	0.154 3.91	3.1/2 88.9	1.60 0.73
3" x 1"	3.500 88.9	3.068 77.9	0.216 5.49	1.660 42.2	1.380 35.1	0.140 3.56	3.1/2 88.9	1.70 0.77
3" x 1.1/4"	3.500 88.9	3.068 77.9	0.216 5.49	1.900 48.3	1.610 40.9	0.145 3.68	3.1/2 88.9	1.89 0.86
3" x 1.1/2"	3.500 88.9	3.068 77.9	0.216 5.49	2.375 60.3	2.067 52.5	0.154 3.91	3.1/2 88.9	2.00 0.91
3" x 2"	3.500 88.9	3.068 77.9	0.216 5.49	2.875 73.0	2.469 62.7	0.203 5.16	3.1/2 88.9	2.16 0.98
3" x 2.1/2"	4.000 100.6	3.548 90.1	0.226 5.74	1.660 42.2	1.380 35.1	0.140 3.56	4 101.6	2.35 1.07
3.1/2" x 1.1/2"	4.000 100.6	3.548 90.1	0.226 5.74	1.900 48.3	1.610 40.9	0.145 3.68	4 101.6	2.52 1.14
3.1/2" x 2"	4.000 100.6	3.548 90.1	0.226 5.74	2.375 60.3	2.067 52.5	0.154 3.91	4 101.6	2.71 1.23
3.1/2" x 2.1/2"	4.000 100.6	3.548 90.1	0.226 5.74	2.875 73.0	2.469 62.7	0.203 5.16	4 101.6	2.96 1.34
3.1/2" x 3"	4.000 100.6	3.548 90.1	0.226 5.74	3.500 88.9	3.068 77.9	0.216 5.49	4 101.6	3.05 1.38
4" x 1.1/2"	4.500 121.9	4.026 102.3	0.237 6.02	1.900 48.3	1.610 40.9	0.145 3.68	4 101.6	2.73 1.24
4" x 2"	4.500 121.9	4.026 102.3	0.237 6.02	2.375 60.3	2.067 52.5	0.154 3.91	4 101.6	3.17 1.44
4" x 2.1/2"	4.500 121.9	4.026 102.3	0.237 6.02	2.875 73.0	2.469 62.7	0.203 5.16	4 101.6	3.34 1.52
4" x 3"	4.500 121.9	4.026 102.3	0.237 6.02	3.500 88.9	3.068 77.9	0.216 5.49	4 101.6	3.50 1.59
4" x 3.1/2"	4.500 121.9	4.026 102.3	0.237 6.02	4.000 101.6	3.548 90.1	0.226 5.74	4 101.6	3.61 1.64
5" x 2"	5.563 141.3	5.042 128.2	0.258 6.55	2.375 60.3	2.067 52.5	0.154 3.91	5 127.0	5.05 2.29
5" x 2.1/3"	5.563 141.3	5.042 128.2	0.258 6.55	2.875 73.0	2.469 62.7	0.203 5.16	5 127.0	5.52 2.51
5" x 3"	5.563 141.3	5.042 128.2	0.258 6.55	3.500 88.9	3.068 77.9	0.216 5.49	5 127.0	5.73 2.60
5" x 3.1/2"	5.563 141.3	5.042 128.2	0.258 6.55	4.000 101.6	3.548 90.1	0.226 5.74	5 127.0	5.86 2.66
5" x 4"	5.563 141.3	5.042 128.2	0.258 6.55	4.500 114.3	4.026 102.3	0.237 6.02	5 127.0	5.99 2.72
6" x 2.1/2"	6.625 168.3	6.065 154.1	0.280 7.11	2.875 73.0	2.469 62.7	0.203 5.16	5.1/2 139.7	7.61 3.45

Dimensions: black figures=inches
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blaue Zahlen =Millimeter

Weights: black figures=Pounds
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Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Concentric Reducers

Eccentric Reducers

Konzentrische ReduzierStücke

Exzentrische ReduzierStücke

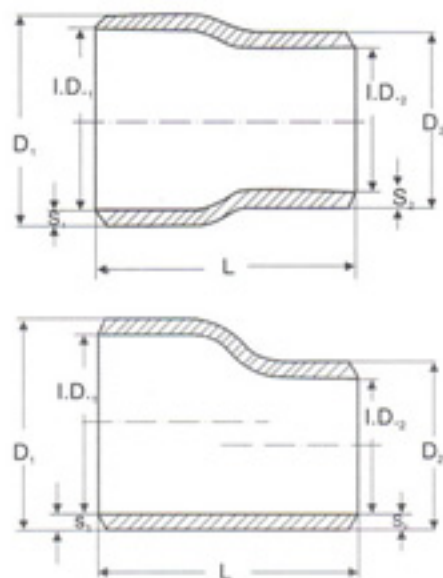
ANSI B 16.9

Standard

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Length Bauhöhe L	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2		
6" x 3"	6.625 168.3	6.065 154.1	0.280 7.11	3.500 88.9	3.068 77.9	0.216 5.49	5.1/2 139.7	8.00 3.63
6" x 3.1/2"	6.625 168.3	6.065 154.1	0.280 7.11	4.000 101.6	3.548 90.1	0.226 5.74	5.1/2 139.7	8.14 3.69
6" x 4"	6.625 168.3	6.065 154.1	0.280 7.11	4.500 114.3	4.026 102.3	0.237 6.02	5.1/2 139.7	8.19 3.72
6" x 5"	6.625 168.3	6.065 154.1	0.280 7.11	5.563 141.3	5.047 128.2	0.258 6.55	5.1/2 139.7	8.65 3.93
8" x 3.1/2"	8.625 219.1	7.981 202.7	0.322 8.18	4.000 101.6	3.548 90.1	0.226 5.74	6 152.4	12.8 5.81
8" x 4"	8.625 219.1	7.981 202.7	0.322 8.18	4.500 114.3	4.026 102.3	0.237 6.02	6 152.4	13.1 5.95
8" x 5"	8.625 219.1	7.981 202.7	0.322 8.18	5.563 141.3	5.047 128.2	0.258 6.55	6 152.4	13.4 6.08
8" x 6"	8.625 219.1	7.981 202.7	0.322 8.18	6.625 168.3	6.065 154.1	0.280 7.11	6 152.4	13.9 6.31
10" x 4"	10.750 273.0	10.020 254.5	0.365 9.27	4.500 114.3	4.026 102.3	0.237 6.02	7 177.8	21.1 9.58
10" x 5"	10.750 273.0	10.020 254.5	0.365 9.27	5.563 141.3	5.047 128.2	0.258 6.55	7 177.8	21.8 9.90
10" x 6"	10.750 273.0	10.020 254.5	0.365 9.27	6.625 168.3	6.065 154.1	0.280 7.11	7 177.8	22.3 10.1
10" x 8"	10.750 273.0	10.020 254.5	0.365 9.27	8.625 219.1	7.981 202.7	0.322 8.18	7 177.8	23.2 10.5
12" x 5"	12.750 323.93	12.000 304.8	0.375 9.52	5.563 141.3	5.047 128.2	0.258 6.55	8 203.2	30.5 13.8
12" x 6"	12.750 323.93	12.000 304.8	0.375 9.52	6.625 168.3	6.065 154.1	0.280 7.11	8 203.2	31.1 14.1
12" x 8"	12.750 323.93	12.000 304.8	0.375 9.52	8.625 219.1	7.981 202.7	0.322 8.18	8 203.2	32.1 14.6
12" x 10"	12.750 323.93	12.000 304.8	0.375 9.52	10.750 273.0	10.020 254.5	0.365 9.27	8 203.2	33.4 15.2
14" x 6"	14.000 355.60	13.250 336.6	0.375 9.52	6.625 168.3	6.065 154.1	0.280 7.11	13 330.2	55.8 25.3
14" x 8"	14.000 355.60	13.250 336.6	0.375 9.52	8.625 219.1	7.981 202.7	0.322 8.18	13 330.2	57.2 26.0
14" x 10"	14.000 355.60	13.250 336.6	0.375 9.52	10.750 273.0	10.020 254.5	0.365 9.27	13 330.2	60.4 27.4
14" x 12"	14.000 355.60	13.250 336.6	0.375 9.52	12.750 323.9	12.000 304.8	0.375 9.52	13 330.2	63.4 28.8
16" x 8"	16.000 406.4	15.250 387.4	0.375 9.52	8.625 219.1	7.981 202.7	0.322 8.18	14 355.6	70.2 31.9
16" x 10"	16.000 406.4	15.250 387.4	0.375 9.52	10.750 273.0	10.020 254.5	0.365 9.27	14 355.6	72.9 33.1
16" x 12"	16.000 406.4	15.250 387.4	0.375 9.52	12.750 323.9	12.000 304.8	0.375 9.52	14 355.6	75.6 34.3
16" x 14"	16.000 406.4	15.250 387.4	0.375 9.52	14.000 355.6	13.250 336.6	0.375 9.52	14 355.6	77.5 35.2
18" x 10"	18.000 457.2	17.250 438.2	0.375 9.52	10.750 273.0	10.020 254.5	0.365 9.27	15 381.0	86.9 39.4
18" x 12"	18.000 457.2	17.250 438.2	0.375 9.52	12.750 323.9	12.000 304.8	0.375 9.52	15 381.0	89.2 40.5
18" x 14"	18.000 457.2	17.250 438.2	0.375 9.52	14.000 355.6	13.250 336.6	0.375 9.52	15 381.0	90.9 41.3
18" x 16"	18.000 457.2	17.250 438.2	0.375 9.52	16.000 406.4	15.250 387.4	0.375 9.52	15 381.0	94.0 42.7
20" x 12"	20.000 508.0	19.250 489.0	0.375 9.52	12.750 323.9	12.000 304.8	0.375 9.52	20 508.0	134.0 60.8
20" x 14"	20.000 508.0	19.250 489.0	0.375 9.52	14.000 355.6	13.250 336.6	0.375 9.52	20 508.0	135.0 61.3
20" x 16"	20.000 508.0	19.250 489.0	0.375 9.52	16.000 406.4	15.250 387.4	0.375 9.52	20 508.0	138.0 62.6
20" x 18"	20.000 508.0	19.250 489.0	0.375 9.52	18.000 457.2	17.250 438.2	0.375 9.52	20 508.0	142.0 64.5
22" x 14"	22.000 558.8	21.250 539.8	0.375 9.52	14.000 355.6	13.250 336.6	0.375 9.52	20 508.0	148.0 67.2
22" x 16"	22.000 558.8	21.250 539.8	0.375 9.52	16.000 406.4	15.250 387.4	0.375 9.52	20 508.0	151.0 68.5
22" x 18"	22.000 558.8	21.250 539.8	0.375 9.52	18.000 457.2	17.250 438.2	0.375 9.52	20 508.0	154.0 69.9
22" x 20"	22.000 558.8	21.250 539.8	0.375 9.52	20.000 508.0	19.250 489.0	0.375 9.52	20 508.0	157.0 71.3
24" x 16"	24.000 609.6	23.250 590.6	0.375 9.52	16.000 406.4	15.250 387.4	0.375 9.52	20 508.0	160.0 72.6
24" x 18"	24.000 609.6	23.250 590.6	0.375 9.52	18.000 457.2	17.250 438.2	0.375 9.52	20 508.0	163.0 74.0
24" x 20"	24.000 609.6	23.250 590.6	0.375 9.52	20.000 508.0	19.250 489.0	0.375 9.52	20 508.0	167.0 75.8

Dimensions: black figures=inches
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Weights: black figures=Pounds
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Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Concentric Reducers

Eccentric Reducers

Konzentrische ReduzierStücke

Exzentrische ReduzierStücke

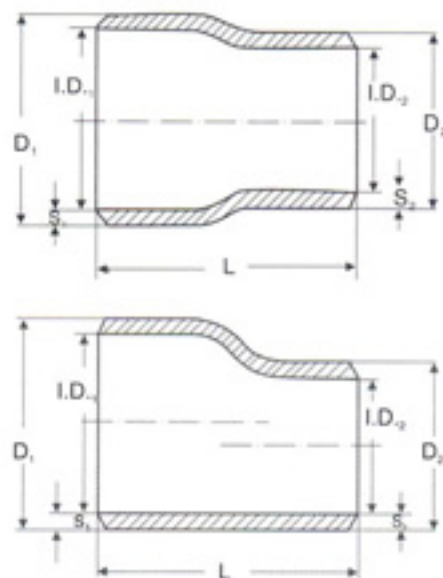
ANSI B 16.9

Standard

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Length Bauhöhe L	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2		
26" x 18"	26.000 660.4	25.250 641.4	0.375 9.52	18.000 457.2	17.250 438.2	0.375 9.52	24 609.6	200 90.7
26" x 20"	26.000 660.4	25.250 641.4	0.375 9.52	20.000 508.0	19.250 489.0	0.375 9.52	24 609.6	200 90.7
26" x 22"	26.000 660.4	25.250 641.4	0.375 9.52	22.000 558.8	21.250 539.8	0.375 9.52	24 609.6	200 90.7
26" x 24"	26.000 660.4	25.250 641.4	0.375 9.52	24.000 609.6	23.250 590.6	0.375 9.52	24 609.6	200 90.7
28" x 14"	28.000 711.2	27.250 692.1	0.375 9.52	18.000 457.2	17.250 438.2	0.375 9.52	24 609.6	210 95.3
28" x 20"	28.000 711.2	27.250 692.1	0.375 9.52	20.000 508.0	19.250 489.0	0.375 9.52	24 609.6	210 95.3
28" x 24"	28.000 711.2	27.250 692.1	0.375 9.52	24.000 609.6	23.250 590.6	0.375 9.52	24 609.6	210 95.3
28" x 26"	28.000 711.2	27.250 692.1	0.375 9.52	26.000 660.4	25.250 641.4	0.375 9.52	24 609.6	210 95.3
30" x 20"	30.000 762.0	27.250 692.1	0.375 9.52	20.000 508.0	19.250 489.0	0.375 9.52	24 609.6	220 100
30" x 24"	30.000 762.0	29.250 743.0	0.375 9.52	24.000 609.6	23.250 590.6	0.375 9.52	24 609.6	220 100
30" x 26"	30.000 762.0	29.250 743.0	0.375 9.52	26.000 660.4	25.250 641.4	0.375 9.52	24 609.6	220 100
30" x 28"	30.000 762.0	29.250 743.0	0.375 9.52	28.000 711.2	27.250 692.1	0.375 9.52	24 609.6	220 100
32" x 24"	32.000 812.8	31.250 793.7	0.375 9.52	24.000 609.6	23.250 590.6	0.375 9.52	24 609.6	255 115
32" x 26"	32.000 812.8	31.250 793.7	0.375 9.52	26.000 660.4	25.250 641.4	0.375 9.52	24 609.6	255 115
32" x 28"	32.000 812.8	31.250 793.7	0.375 9.52	28.000 711.2	27.250 692.1	0.375 9.52	24 609.6	255 115
32" x 30"	32.000 812.8	31.250 793.7	0.375 9.52	30.000 762.0	29.250 743.0	0.375 9.52	24 609.6	255 115
34" x 24"	34.000 863.6	33.250 844.6	0.375 9.52	24.000 609.6	23.250 590.6	0.375 9.52	24 609.6	270 112
34" x 26"	34.000 863.6	33.250 844.6	0.375 9.52	26.000 660.4	25.250 641.4	0.375 9.52	24 609.6	270 112
34" x 30"	34.000 863.6	33.250 844.6	0.375 9.52	30.000 762.0	29.250 743.0	0.375 9.52	24 609.6	270 112
34" x 32"	34.000 863.6	33.250 844.6	0.375 9.52	32.000 812.8	31.250 793.7	0.375 9.52	24 609.6	270 112
36" x 24"	36.000 914.4	35.250 895.4	0.375 9.52	24.000 609.6	23.250 590.6	0.375 9.52	24 609.6	285 129
36" x 26"	36.000 914.4	35.250 895.4	0.375 9.52	26.000 660.4	25.250 641.4	0.375 9.52	24 609.6	285 129
36" x 30"	36.000 914.4	35.250 895.4	0.375 9.52	30.000 762.0	29.250 743.0	0.375 9.52	24 609.6	285 129
36" x 32"	36.000 914.4	35.250 895.4	0.375 9.52	32.000 812.8	31.250 793.7	0.375 9.52	24 609.6	285 129
36" x 34"	36.000 914.4	35.250 895.4	0.375 9.52	34.000 863.6	33.250 844.6	0.375 9.52	24 609.6	285 129
38" x 26"	38.000 965.2	37.250 946.1	0.375 9.52	26.000 660.4	25.250 641.4	0.375 9.52	24 609.6	300 136
38" x 28"	38.000 965.2	37.250 946.1	0.375 9.52	28.000 711.2	27.250 692.1	0.375 9.52	24 609.6	300 136
38" x 30"	38.000 965.2	37.250 946.1	0.375 9.52	30.000 762.0	29.250 743.0	0.375 9.52	24 609.6	300 136
38" x 32"	38.000 965.2	37.250 946.1	0.375 9.52	32.000 812.8	31.250 793.7	0.375 9.52	24 609.6	300 136
38" x 34"	38.000 965.2	37.250 946.1	0.375 9.52	34.000 863.6	33.250 844.6	0.375 9.52	24 609.6	300 136
38" x 36"	38.000 965.2	37.250 946.1	0.375 9.52	36.000 914.4	35.250 895.4	0.375 9.52	24 609.6	300 136
40" x 30"	40.000 1016.0	39.250 996.9	0.375 9.52	30.000 762.0	29.250 743.0	0.375 9.52	24 609.6	315 143
40" x 32"	40.000 1016.0	39.250 996.9	0.375 9.52	32.000 812.8	31.250 793.7	0.375 9.52	24 609.6	315 143
40" x 34"	40.000 1016.0	39.250 996.9	0.375 9.52	34.000 863.6	33.250 844.6	0.375 9.52	24 609.6	315 143
40" x 36"	40.000 1016.0	39.250 996.9	0.375 9.52	36.000 914.4	35.250 895.4	0.375 9.52	24 609.6	315 143
40" x 38"	40.000 1016.0	39.250 996.9	0.375 9.52	38.000 965.2	37.250 946.1	0.375 9.52	24 609.6	315 143
42" x 30"	42.000 1066.8	41.250 1047.8	0.375 9.52	30.000 762.0	29.250 743.0	0.375 9.52	24 609.6	335 152
42" x 32"	42.000 1066.8	41.250 1047.8	0.375 9.52	32.000 812.8	31.250 793.7	0.375 9.52	24 609.6	335 152
42" x 34"	42.000 1066.8	41.250 1047.8	0.375 9.52	34.000 863.6	33.250 844.6	0.375 9.52	24 609.6	335 152

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Concentric Reducers

Eccentric Reducers

Konzentrische ReduzierStücke

Exzentrische ReduzierStücke

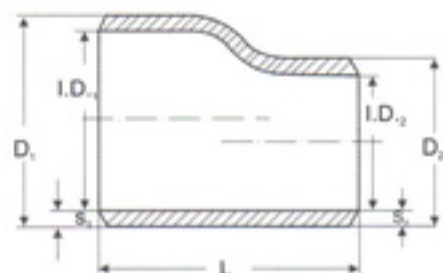
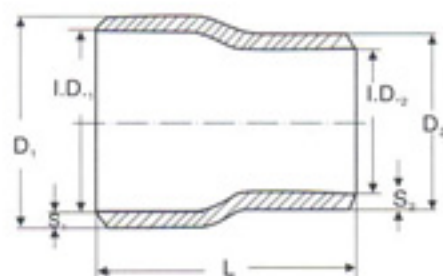
ANSI B 16.9

Standard

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Length Bauhöhe L	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2		
42" x 36"	42.000 1066.8	41.250 1047.8	0.375 9.52	36.000 914.4	35.250 895.4	0.375 9.52	24 609.6	334 152
42" x 38"	42.000 1066.8	41.250 1047.8	0.375 9.52	38.000 965.2	37.250 946.1	0.375 9.52	24 609.6	334 152
42" x 42"	42.000 1066.8	41.250 1047.8	0.375 9.52	40.000 1016.0	39.250 996.9	0.375 9.52	24 609.6	334 152
44" x 36"	44.000 1117.6	43.250 1098.5	0.375 9.52	36.000 914.4	35.250 895.4	0.375 9.52	24 609.6	350 159
44" x 38"	44.000 1117.6	43.250 1098.5	0.375 9.52	38.000 965.2	37.250 946.1	0.375 9.52	24 609.6	350 159
44" x 40"	44.000 1117.6	43.250 1098.5	0.375 9.52	40.000 1016.0	39.250 996.9	0.375 9.52	24 609.6	350 159
44" x 42"	44.000 1117.6	43.250 1098.5	0.375 9.52	42.000 1066.8	41.250 1047.8	0.375 9.52	24 609.6	350 159
46" x 38"	46.000 1168.4	45.250 1149.3	0.375 9.52	38.000 965.2	37.250 946.1	0.375 9.52	28 711.2	375 170
46" x 40"	46.000 1168.4	45.250 1149.3	0.375 9.52	40.000 1016.0	39.250 996.9	0.375 9.52	28 711.2	375 170
46" x 42"	46.000 1168.4	45.250 1149.3	0.375 9.52	42.000 1066.8	41.250 1047.8	0.375 9.52	28 711.2	375 170
46" x 44"	46.000 1168.4	45.250 1149.3	0.375 9.52	44.000 1117.6	43.250 1098.5	0.375 9.52	28 711.2	375 170
48" x 40"	48.000 1219.2	47.250 1200.1	0.375 9.52	40.000 1016.0	39.250 996.9	0.375 9.52	28 711.2	400 181
48" x 42"	48.000 1219.2	47.250 1200.1	0.375 9.52	42.000 1066.8	41.250 1047.8	0.375 9.52	28 711.2	400 181
48" x 44"	48.000 1219.2	47.250 1200.1	0.375 9.52	44.000 1117.6	43.250 1098.5	0.375 9.52	28 711.2	400 181
48" x 46"	48.000 1219.2	47.250 1200.1	0.375 9.52	46.000 1168.4	45.250 1149.3	0.375 9.52	28 711.2	400 181

Dimensions: black figures=inches
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blaue Zahlen =Millimeter

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Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Concentric Reducers

Eccentric Reducers

Konzentrische ReduzierStücke

Exzentrische ReduzierStücke

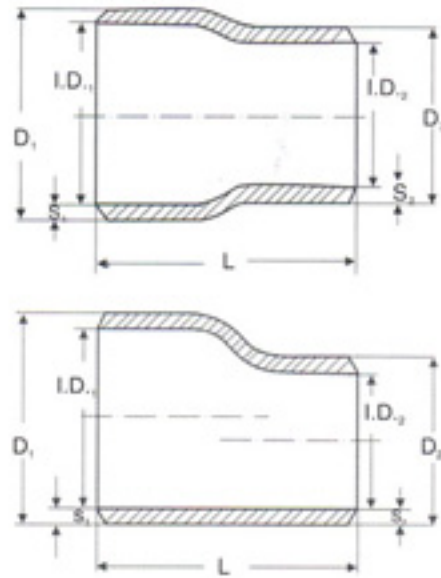
ANSI B 16.9

Extra Strong

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Length Bauhöhe L	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2		
3/4" × 3/8"	1.050 26.7	0.742 18.8	0.154 3.91	0.675 17.1	0.423 10.74	0.126 3.18	1.1/2 38.1	0.24 0.11
3/4" × 1/2"	1.050 26.7	0.742 18.8	0.154 3.91	0.840 21.3	0.546 13.8	0.147 3.73	1.1/2 38.1	0.26 0.12
1" × 3/8"	1.315 33.4	0.957 24.3	0.179 4.55	0.675 17.1	0.423 10.74	0.126 3.18	2 50.8	0.34 0.15
1" × 1/2"	1.315 33.4	0.957 24.3	0.179 4.55	0.840 21.3	0.546 13.8	0.147 3.73	2 50.8	0.36 0.16
1" × 3/4"	1.315 33.4	0.957 24.3	0.179 4.55	1.050 26.7	0.724 18.8	0.154 3.91	2 50.8	0.37 0.17
1.1/4" × 1/2"	1.660 42.2	1.278 32.5	0.191 4.85	0.840 21.3	0.546 13.8	0.147 3.73	2 50.8	0.49 0.22
1.1/4" × 3/4"	1.660 42.2	1.278 32.5	0.191 4.85	1.050 26.7	0.724 18.8	0.154 3.91	2 50.8	0.51 0.23
1.1/4" × 1"	1.660 42.2	1.278 32.5	0.191 4.85	1.315 33.4	0.957 24.3	0.179 4.55	2 50.8	0.54 0.24
1.1/2" × 1/2"	1.900 48.8	1.500 38.1	0.200 5.08	0.840 21.3	0.546 13.8	0.147 3.73	2.1/2 63.5	0.61 0.28
1.1/2" × 3/4"	1.900 48.8	1.500 38.1	0.200 5.08	1.050 26.7	0.724 18.8	0.154 3.91	2.1/2 63.5	0.60 0.27
1.1/2" × 1"	1.900 48.8	1.500 38.1	0.200 5.08	1.315 33.4	0.957 24.3	0.179 4.55	2.1/2 63.5	0.68 0.31
1.1/2" × 1.1/4"	1.900 48.8	1.500 38.1	0.200 5.08	1.660 42.2	1.278 32.5	0.191 4.85	2.1/2 63.5	0.73 0.33
2" × 3/4"	2.375 60.3	1.939 49.3	0.218 5.54	1.050 26.7	0.724 18.8	0.154 3.91	3 76.2	1.01 0.46
2" × 1"	2.375 60.3	1.939 49.3	0.218 5.54	1.315 33.4	0.957 24.3	0.179 4.55	3 76.2	0.99 0.45
2" × 1.1/4"	2.375 60.3	1.939 49.3	0.218 5.54	1.660 42.2	1.278 32.5	0.191 4.85	3 76.2	1.16 0.53
2" × 1.1/2"	2.375 60.3	1.939 49.3	0.218 5.54	1.900 48.3	1.500 38.1	0.200 5.08	3 76.2	1.20 0.54
2.1/2" × 1"	2.875 72.0	2.323 59.1	0.276 7.01	1.315 33.4	0.957 24.3	0.179 4.55	3.1/2 88.9	1.75 0.79
2.1/2" × 1.1/4"	2.875 72.0	2.323 59.1	0.276 7.01	1.660 42.2	1.278 32.5	0.191 4.85	3.1/2 88.9	1.71 0.78
2.1/2" × 1.1/2"	2.875 72.0	2.323 59.1	0.276 7.01	1.900 48.3	1.500 38.1	0.200 5.08	3.1/2 88.9	1.89 0.86
2.1/2" × 2"	2.875 72.0	2.323 59.1	0.276 7.01	2.375 60.3	1.939 49.3	0.218 5.54	3.1/2 88.9	2.07 0.94
3" × 1"	3.500 88.9	2.900 73.7	0.300 7.62	1.660 42.2	1.278 32.5	0.191 4.85	3.1/2 88.9	2.29 1.04
3" × 1.1/4"	3.500 88.9	2.900 73.7	0.300 7.62	1.900 48.3	1.500 38.1	0.200 5.08	3.1/2 88.9	2.19 0.99
3" × 1.1/2"	3.500 88.9	2.900 73.7	0.300 7.62	2.375 60.3	1.939 49.3	0.218 5.54	3.1/2 88.9	2.60 1.18
3" × 2"	3.500 88.9	2.900 73.7	0.300 7.62	2.875 73.0	2.323 59.1	0.276 7.01	3.1/2 88.9	2.85 1.29
3" × 2.1/2"	4.000 100.6	3.364 85.4	0.318 8.08	1.660 42.2	1.278 32.5	0.191 4.85	4 101.6	3.28 1.49
3.1/2" × 1.1/2"	4.000 101.6	3.364 85.4	0.318 8.08	1.900 48.3	1.500 38.1	0.200 5.08	4 101.6	3.16 1.43
3.1/2" × 2"	4.000 101.6	3.364 85.4	0.318 8.08	2.375 60.3	1.939 49.3	0.218 5.54	4 101.6	3.54 1.61
3.1/2" × 2.1/2"	4.000 101.6	3.364 85.4	0.318 8.08	2.875 73.0	2.323 59.1	0.276 7.01	4 101.6	3.85 1.75
3.1/2" × 3"	4.000 101.6	3.364 85.4	0.318 8.08	3.500 88.9	2.900 73.7	0.300 7.62	4 101.6	4.08 1.85
4" × 1.1/2"	4.500 114.3	3.826 97.2	0.337 8.56	1.900 48.3	1.500 38.1	0.200 5.08	4 101.6	3.82 1.73
4" × 2"	4.500 114.3	3.826 97.2	0.337 8.56	2.375 60.3	1.939 49.3	0.218 5.54	4 101.6	3.93 1.78
4" × 2.1/2"	4.500 114.3	3.826 97.2	0.337 8.56	2.875 73.0	2.323 59.1	0.276 7.01	4 101.6	4.43 2.01
4" × 3"	4.500 114.3	3.826 97.2	0.337 8.56	3.500 88.9	2.900 73.7	0.300 7.62	4 101.6	4.70 2.13
4" × 3.1/2"	4.500 114.3	3.826 97.2	0.337 8.56	4.000 101.6	3.364 85.4	0.318 8.08	4 101.6	4.88 2.21
5" × 2"	5.563 141.3	4.813 122.2	0.375 9.52	2.375 60.3	1.939 49.3	0.218 5.54	5 127.0	6.62 3.00
5" × 2.1/3"	5.563 141.3	4.813 122.2	0.375 9.52	2.875 73.0	2.323 59.1	0.276 7.01	5 127.0	7.26 3.30
5" × 3"	5.563 141.3	4.813 122.2	0.375 9.52	3.500 88.9	2.900 73.7	0.300 7.62	5 127.0	7.83 3.55
5" × 3.1/2"	5.563 141.3	4.813 122.2	0.375 9.52	4.000 101.6	3.364 85.4	0.318 8.08	5 127.0	8.04 3.65
5" × 4"	5.563 141.3	4.813 122.2	0.375 9.52	4.500 114.3	3.826 97.2	0.337 8.56	5 127.0	8.32 3.78
6" × 2.1/2"	6.625 168.3	5.761 146.3	0.432 10.97	2.875 73.0	2.323 59.1	0.276 7.01	5.1/2 139.7	9.95 4.52

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Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Concentric Reducers

Eccentric Reducers

Konzentrische ReduzierStücke

Exzentrische ReduzierStücke

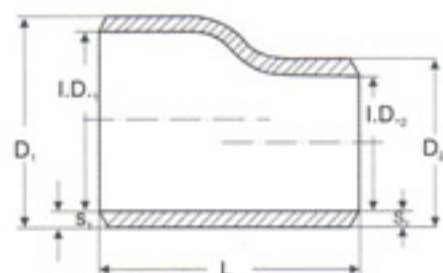
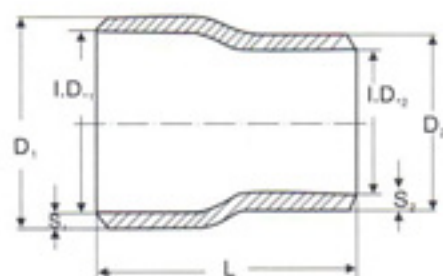
ANSI B 16.9

Extra Strong

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Length Bauhöhe L	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2		
6" x 3"	6.625 168.3	5.761 146.3	0.432 11.05	3.500 88.9	2.900 73.7	0.300 7.60	5.1/2 139.7	11.1 5.04
6" x 3.1/2"	6.625 168.3	5.761 146.3	0.432 11.05	4.000 101.6	3.364 85.3	0.318 8.15	5.1/2 139.7	11.6 5.27
6" x 4"	6.625 168.3	5.761 146.3	0.432 11.05	4.500 114.3	3.826 97.3	0.337 8.50	5.1/2 139.7	12.0 5.45
6" x 5"	6.625 168.3	5.761 146.3	0.432 11.05	5.563 141.3	4.813 122.2	0.375 9.52	5.1/2 139.7	12.6 5.72
8" x 3.1/2"	8.625 219.1	7.981 202.7	0.500 12.70	4.000 101.6	3.364 85.3	0.318 8.15	6 152.4	16.1 7.31
8" x 4"	8.625 219.1	7.981 202.7	0.500 12.70	4.500 114.3	3.826 97.3	0.337 8.50	6 152.4	18.6 8.44
8" x 5"	8.625 219.1	7.625 193.8	0.500 12.70	5.563 141.3	4.813 122.2	0.375 9.52	6 152.4	19.5 8.85
8" x 6"	8.625 219.1	7.625 193.8	0.500 12.70	6.625 168.3	5.761 146.3	0.432 11.05	6 152.4	20.4 9.26
10" x 4"	10.750 273.0	9.750 247.6	0.500 12.70	4.500 114.3	3.826 97.3	0.337 8.50	7 177.8	25.3 11.5
10" x 5"	10.750 273.0	9.750 247.6	0.500 12.70	5.563 141.3	4.813 122.2	0.375 9.52	7 177.8	28.7 13.0
10" x 6"	10.750 273.0	9.750 247.6	0.500 12.70	6.625 168.3	5.761 146.3	0.432 11.05	7 177.8	29.8 13.5
10" x 8"	10.750 273.0	9.750 247.6	0.500 12.70	8.625 219.1	7.625 193.8	0.500 12.70	7 177.8	31.4 14.2
12" x 5"	12.750 323.93	11.750 298.4	0.500 12.70	5.563 141.3	4.813 122.2	0.375 9.52	8 203.2	39.1 17.7
12" x 6"	12.750 323.93	11.750 298.4	0.500 12.70	6.625 168.3	5.761 146.3	0.432 11.05	8 203.2	40.6 18.4
12" x 8"	12.750 323.93	11.750 298.4	0.500 12.70	8.625 219.1	7.625 193.8	0.500 12.70	8 203.2	37.4 17.0
12" x 10"	12.750 323.93	11.750 298.4	0.500 12.70	10.750 273.0	9.750 247.6	0.500 12.70	8 203.2	43.6 19.8
14" x 6"	14.000 355.60	13.000 330.2	0.500 12.70	6.625 168.3	5.761 146.3	0.432 11.05	13 330.2	74.3 33.7
14" x 8"	14.000 355.60	13.000 330.2	0.500 12.70	8.625 219.1	7.625 193.8	0.500 12.70	13 330.2	76.8 34.9
14" x 10"	14.000 355.60	13.000 330.2	0.500 12.70	10.750 273.0	9.750 247.6	0.500 12.70	13 330.2	79.5 36.1
14" x 12"	14.000 355.60	13.000 330.2	0.500 12.70	12.750 323.9	11.750 298.4	0.500 12.70	13 330.2	83.1 37.7
16" x 8"	16.000 88.9	15.000 381.0	0.500 12.70	8.625 219.1	7.625 193.8	0.500 12.70	14 355.6	93.9 42.6
16" x 10"	16.000 88.9	15.000 381.0	0.500 12.70	10.750 273.0	9.750 247.6	0.500 12.70	14 355.6	96.2 43.7
16" x 12"	16.000 88.9	15.000 381.0	0.500 12.70	12.750 323.9	11.750 298.4	0.500 12.70	14 355.6	99.2 45.0
16" x 14"	16.000 88.9	15.000 381.0	0.500 12.70	14.000 355.6	13.000 330.2	0.500 12.70	14 355.6	102.0 46.3
18" x 10"	18.000 457.2	17.000 431.8	0.500 12.70	10.750 273.0	9.750 247.6	0.500 12.70	15 381.0	114.0 51.8
18" x 12"	18.000 457.2	17.000 431.8	0.500 12.70	12.750 323.9	11.750 298.4	0.500 12.70	15 381.0	118.0 53.6
18" x 14"	18.000 457.2	17.000 431.8	0.500 12.70	14.000 355.6	13.000 330.2	0.500 12.70	15 381.0	120.0 54.5
18" x 16"	18.000 457.2	17.000 431.8	0.500 12.70	16.000 406.4	15.000 381.0	0.500 12.70	15 381.0	123.0 55.8
20" x 12"	20.000 508.0	19.000 482.6	0.500 12.70	12.750 323.9	11.750 298.4	0.500 12.70	20 508.0	176.0 79.9
20" x 14"	20.000 508.0	19.000 482.6	0.500 12.70	14.000 355.6	13.000 330.2	0.500 12.70	20 508.0	179.0 81.3
20" x 16"	20.000 508.0	19.000 482.6	0.500 12.70	16.000 406.4	15.000 381.0	0.500 12.70	20 508.0	182.0 82.6
20" x 18"	20.000 508.0	19.000 482.6	0.500 12.70	18.000 457.2	17.000 431.8	0.500 12.70	20 508.0	186.0 84.4
22" x 14"	22.000 558.8	21.000 533.4	0.500 12.70	14.000 355.6	13.000 330.2	0.500 12.70	20 508.0	195.0 88.5
22" x 16"	22.000 558.8	21.000 533.4	0.500 12.70	16.000 406.4	15.000 381.0	0.500 12.70	20 508.0	198.0 9.9
22" x 18"	22.000 558.8	21.000 533.4	0.500 12.70	18.000 457.2	17.000 431.8	0.500 12.70	20 508.0	202.0 91.7
22" x 20"	22.000 558.8	21.000 533.4	0.500 12.70	20.000 508.0	19.000 482.6	0.500 12.70	20 508.0	207.0 94.0
24" x 16"	24.000 609.6	23.000 584.2	0.500 12.70	16.000 406.4	15.000 381.0	0.500 12.70	20 508.0	211.0 95.8
24" x 18"	24.000 609.6	23.000 584.2	0.500 12.70	18.000 457.2	17.000 431.8	0.500 12.70	20 508.0	215.0 97.6
24" x 20"	24.000 609.6	23.000 584.2	0.500 12.70	20.000 508.0	19.000 482.6	0.500 12.70	20 508.0	220.0 99.9

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Gewichte: schwarze Zahlen=engl. Pfunde
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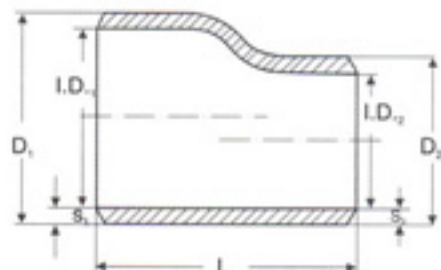
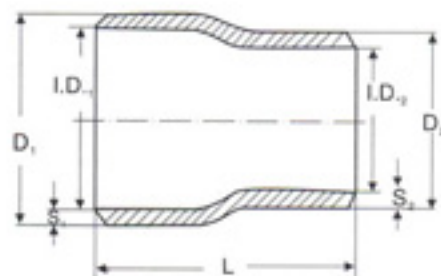
Concentric Reducers Eccentric Reducers Konzentrische ReduzierStücke Exzentrische ReduzierStücke ANSI B 16.9

Extra Strong

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Length Bauhöhe L	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2		
26" × 18"	26.000 660.4	25.000 635.0	0.500 12.70	18.000 457.2	17.000 431.8	0.500 12.70	24 609.6	272 123
26" × 20"	26.000 660.4	25.000 635.0	0.500 12.70	20.000 508.0	19.000 482.6	0.500 12.70	24 609.6	272 123
26" × 22"	26.000 660.4	25.000 635.0	0.500 12.70	22.000 558.8	21.000 533.4	0.500 12.70	24 609.6	272 123
26" × 24"	26.000 660.4	25.000 635.0	0.500 12.70	24.000 609.6	23.000 584.2	0.500 12.70	24 609.6	272 123
28" × 14"	28.000 711.2	27.000 685.8	0.500 12.70	18.000 457.2	17.000 431.8	0.500 12.70	24 609.6	290 132
28" × 20"	28.000 711.2	27.000 685.8	0.500 12.70	20.000 508.0	19.000 482.6	0.500 12.70	24 609.6	290 132
28" × 24"	28.000 711.2	27.000 685.8	0.500 12.70	24.000 609.6	23.000 584.2	0.500 12.70	24 609.6	290 132
28" × 26"	28.000 711.2	27.000 685.8	0.500 12.70	26.000 660.4	25.000 635.0	0.500 12.70	24 609.6	290 132
30" × 20"	30.000 762.0	29.000 736.6	0.500 12.70	20.000 508.0	19.000 482.6	0.500 12.70	24 609.6	315 143
30" × 24"	30.000 762.0	29.000 736.6	0.500 12.70	24.000 609.6	23.000 584.2	0.500 12.70	24 609.6	315 143
30" × 26"	30.000 762.0	29.000 736.6	0.500 12.70	26.000 660.4	25.000 635.0	0.500 12.70	24 609.6	315 143
30" × 28"	30.000 762.0	29.000 736.6	0.500 12.70	28.000 711.2	27.000 685.8	0.500 12.70	24 609.6	315 143
32" × 24"	32.000 812.8	31.000 787.4	0.500 12.70	24.000 609.6	23.000 584.2	0.500 12.70	24 609.6	331 150
32" × 26"	32.000 812.8	31.000 787.4	0.500 12.70	26.000 660.4	25.000 635.0	0.500 12.70	24 609.6	331 150
32" × 28"	32.000 812.8	31.000 787.4	0.500 12.70	28.000 711.2	27.000 685.8	0.500 12.70	24 609.6	331 150
32" × 30"	32.000 812.8	31.000 787.4	0.500 12.70	30.000 762.0	29.000 736.6	0.500 12.70	24 609.6	331 150
34" × 24"	34.000 863.6	33.000 838.2	0.500 12.70	24.000 609.6	23.000 584.2	0.500 12.70	24 609.6	347 157
34" × 26"	34.000 863.6	33.000 838.2	0.500 12.70	26.000 660.4	25.000 635.0	0.500 12.70	24 609.6	347 157
34" × 30"	34.000 863.6	33.000 838.2	0.500 12.70	30.000 762.0	29.000 736.6	0.500 12.70	24 609.6	347 157
34" × 32"	34.000 863.6	33.000 838.2	0.500 12.70	32.000 812.8	31.000 787.4	0.500 12.70	24 609.6	347 157
36" × 24"	36.000 914.4	35.000 889.0	0.500 12.70	24.000 609.6	23.000 584.2	0.500 12.70	24 609.6	379 172
36" × 26"	36.000 914.4	35.000 889.0	0.500 12.70	26.000 660.4	25.000 635.0	0.500 12.70	24 609.6	379 172
36" × 30"	36.000 914.4	35.000 889.0	0.500 12.70	30.000 762.0	29.000 736.6	0.500 12.70	24 609.6	379 172
36" × 32"	36.000 914.4	35.000 889.0	0.500 12.70	32.000 812.8	31.000 787.4	0.500 12.70	24 609.6	379 172
36" × 34"	36.000 914.4	35.000 889.0	0.500 12.70	34.000 863.6	33.000 838.2	0.500 12.70	24 609.6	379 172
38" × 26"	38.000 965.2	37.000 939.8	0.500 12.70	26.000 660.4	25.000 635.0	0.500 12.70	24 609.6	410 186
38" × 28"	38.000 965.2	37.000 939.8	0.500 12.70	28.000 711.2	27.000 685.8	0.500 12.70	24 609.6	410 186
38" × 30"	38.000 965.2	37.000 939.8	0.500 12.70	30.000 762.0	29.000 736.6	0.500 12.70	24 609.6	410 186
38" × 32"	38.000 965.2	37.000 939.8	0.500 12.70	32.000 812.8	31.000 787.4	0.500 12.70	24 609.6	410 186
38" × 34"	38.000 965.2	37.000 939.8	0.500 12.70	34.000 863.6	33.000 838.2	0.500 12.70	24 609.6	410 186
38" × 36"	38.000 965.2	37.000 939.8	0.500 12.70	36.000 914.4	35.000 889.0	0.500 12.70	24 609.6	410 186
40" × 30"	40.000 1016.0	39.000 990.6	0.500 12.70	30.000 762.0	29.000 736.6	0.500 12.70	24 609.6	425 193
40" × 32"	40.000 1016.0	39.000 990.6	0.500 12.70	32.000 812.8	31.000 787.4	0.500 12.70	24 609.6	425 193
40" × 34"	40.000 1016.0	39.000 990.6	0.500 12.70	34.000 863.6	33.000 838.2	0.500 12.70	24 609.6	425 193
40" × 36"	40.000 1016.0	39.000 990.6	0.500 12.70	36.000 914.4	35.000 889.0	0.500 12.70	24 609.6	425 193
40" × 38"	40.000 1016.0	39.000 990.6	0.500 12.70	38.000 965.2	37.000 939.8	0.500 12.70	24 609.6	425 193
42" × 30"	42.000 1066.8	41.000 1041.4	0.500 12.70	30.000 762.0	29.000 736.6	0.500 12.70	24 609.6	443 201
42" × 32"	42.000 1066.8	41.000 1041.4	0.500 12.70	32.000 812.8	31.000 787.4	0.500 12.70	24 609.6	443 201
42" × 34"	42.000 1066.8	41.000 1041.4	0.500 12.70	34.000 863.6	33.000 838.2	0.500 12.70	24 609.6	443 201

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Concentric Reducers

Eccentric Reducers

Konzentrische ReduzierStücke

Exzentrische ReduzierStücke

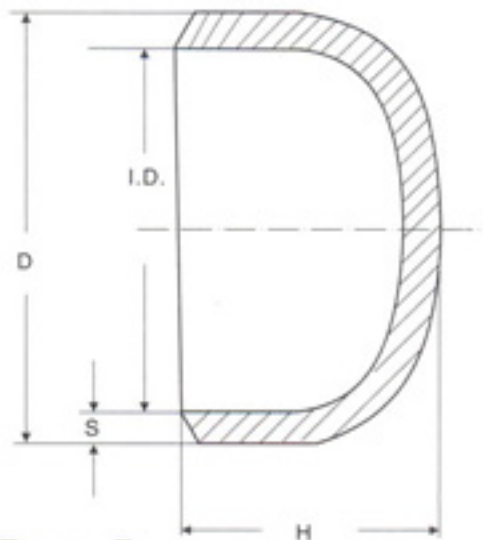
ANSI B 16.9

Extra Strong

Nominal Pipe Size Nennweite	Dimensions of Run / Abmessungen des Durchgangs			Dimensions of Branch / Abmessungen des Abzweigs			Length Bauhöhe L	Approx. Weight Pounds Gewicht ca. Kg
	Outside Diameter Außendurchmesser D1	Inside Diameter Innendurchmesser I.D.1	Wall Thickness Wandstärke S1	Outside Diameter Außendurchmesser D2	Inside Diameter Innendurchmesser I.D.2	Wall Thickness Wandstärke S2		
42" x 36"	42.000 1066.8	41.000 1041.4	0.500 12.70	36.000 914.4	35.000 889.0	0.500 12.70	24 609.6	443 201
42" x 38"	42.000 1066.8	41.000 1041.4	0.500 12.70	38.000 965.2	37.000 939.8	0.500 12.70	24 609.6	443 201
42" x 42"	42.000 1066.8	41.000 1041.4	0.500 12.70	40.000 1016.0	39.000 990.9	0.500 12.70	24 609.6	443 201
44" x 36"	44.000 1117.6	43.000 1092.2	0.500 12.70	36.000 914.4	35.000 889.0	0.500 12.70	24 609.6	465 211
44" x 38"	44.000 1117.6	43.000 1092.2	0.500 12.70	38.000 965.2	37.000 939.8	0.500 12.70	24 609.6	465 211
44" x 40"	44.000 1117.6	43.000 1092.2	0.500 12.70	40.000 1016.0	39.000 990.9	0.500 12.70	24 609.6	465 211
44" x 42"	44.000 1117.6	43.000 1092.2	0.500 12.70	42.000 1066.8	41.000 1041.4	0.500 12.70	24 609.6	465 211
46" x 38"	46.000 1168.4	45.000 1143.0	0.500 12.70	38.000 965.2	37.000 939.8	0.500 12.70	28 711.2	495 225
46" x 40"	46.000 1168.4	45.000 1143.0	0.500 12.70	40.000 1016.0	39.000 990.9	0.500 12.70	28 711.2	495 225
46" x 42"	46.000 1168.4	45.000 1143.0	0.500 12.70	42.000 1066.8	41.000 1041.4	0.500 12.70	28 711.2	495 225
46" x 44"	46.000 1168.4	45.000 1143.0	0.500 12.70	44.000 1117.6	43.000 1092.2	0.500 12.70	28 711.2	495 225
48" x 40"	48.000 1219.2	47.000 1193.8	0.500 12.70	40.000 1016.0	39.000 990.9	0.500 12.70	28 711.2	525 238
48" x 42"	48.000 1219.2	47.000 1193.8	0.500 12.70	42.000 1066.8	41.000 1041.4	0.500 12.70	28 711.2	525 238
48" x 44"	48.000 1219.2	47.000 1193.8	0.500 12.70	44.000 1117.6	43.000 1092.2	0.500 12.70	28 711.2	525 238
48" x 46"	48.000 1219.2	47.000 1193.8	0.500 12.70	46.000 1168.4	45.000 1143.0	0.500 12.70	28 711.2	525 238

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Weights: black figures=Pounds
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Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm



Standard

Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser D	Inside Diameter Innendurchmesser I.D.	Wall Thickness Wandstärke S	Length Bauhöhe H	Approx Weight Pounds Gewicht ca. kg
1/2"	0.840 21,3	0.622 15,8	0.109 2,77	1 25,4	0.07 0,032
3/4"	1.050 26,7	0.824 20,9	0.113 2,87	1 25,4	0.13 0,059
1"	1.315 33,4	1.049 26,6	0.133 3,38	1.1/2 38,1	0.23 0,10
1.1/4"	1.660 42,2	1.380 35,1	0.140 3,56	1.1/2 38,1	0.31 0,14
1.1/2"	1.900 48,3	1.610 40,9	0.145 3,68	1.1/2 38,1	0.37 0,17
2"	2.375 60,3	2.067 52,5	0.154 3,91	1.1/2 38,1	0.51 0,23
2.1/2"	2.875 73,0	2.469 62,7	0.203 5,16	1.1/2 38,1	0.81 0,37
3"	3.500 88,9	3.068 77,9	0.216 5,49	2 50,8	1.41 0,64
3.1/2"	4.000 101,6	3.548 90,1	0.226 5,74	2.1/2 63,5	2.12 0,96
4"	4.500 114,3	4.026 102,3	0.237 6,02	2.1/2 63,5	2.55 1,16
5"	5.563 141,3	5.047 128,2	0.258 6,55	3 76,2	4.20 1,19
6"	6.625 168,3	6.065 154,1	0.280 7,11	3.1/2 88,9	6.41 2,91
8"	8.625 219,1	7.981 202,7	0.322 8,18	4 101,6	11.3 5,13
10"	10.750 273,0	10.020 254,5	0.365 9,27	5 127,0	20.0 9,08
12"	12.750 323,9	12.000 304,8	0.375 9,52	6 152,4	29.5 13,4
14"	14.000 355,6	13.250 336,6	0.375 9,52	6.1/2 165,1	35.3 16,0
16"	16.000 406,4	15.250 387,4	0.375 9,52	7 177,8	44.3 20,1
18"	18.000 457,2	17.250 438,2	0.375 9,52	8 203,2	57.1 25,9
20"	20.000 508,0	19.250 489,0	0.375 9,52	9 228,6	71.7 32,5
22"	22.000 558,8	21.250 539,8	0.375 9,52	10 254,0	86.5 39,3
24"	24.000 609,6	23.250 590,6	0.375 9,52	10.1/2 266,7	102 46,3
26"	26.000 660,4	25.250 641,4	0.375 9,52	10.1/2 266,7	112 50,8
28"	28.000 711,2	27.250 692,1	0.375 9,52	10.1/2 266,7	123 56
30"	30.000 762,0	29.250 743,0	0.375 9,52	10.1/2 266,7	125 56,7
32"	32.000 812,8	31.250 793,7	0.375 9,52	10.1/2 266,7	145 65,8
34"	34.000 863,6	33.250 844,6	0.375 9,52	10.1/2 266,7	160 72,4
36"	36.000 914,4	35.250 895,4	0.375 9,52	10.1/2 266,7	175 79,4
38"	38.000 965,2	37.250 946,1	0.375 9,52	12 304,8	190 86,2
40"	40.000 1016,0	39.250 996,9	0.375 9,52	12 304,8	210 95,3
42"	42.000 1066,8	41.250 1047,8	0.375 9,52	12 304,8	230 104,0
44"	44.000 1117,6	43.250 1098,5	0.375 9,52	13.1/2 342,9	265 120,2
46"	46.000 1168,4	45.250 1149,39	0.375 9,52	13.1/2 342,9	300 136,0
48"	48.000 1219,2	47.250 1200,1	0.375 9,52	13.1/2 342,9	350 159,0

Dimensions: black figures=inches
blue figures =Millimeters
Abmessungen: schwarze Zahlen=Zoll
blaue Zahlen =Millimeter

Caps Kappen ANSI B 16.9

Extra Strong

Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser D	Inside Diameter Innendurchmesser I.D.	Nominal Pipe Size Nennweite	Wall Thickness Wandstärke S	Length Bauhöhe H	Approx Weight Pounds Gewicht ca. kg
1/2"	0.840 21,3	0.546 13,9	1/2"	0.147 3,73	1 25,4	0.09 0,041
3/4"	1.050 26,7	0.742 18,8	3/4"	0.154 3,91	1 25,4	0.16 0,073
1"	1.315 33,4	0.957 24,3	1"	0.179 4,55	1.1/2 38,1	0.28 0,13
1.1/4"	1.660 42,2	1.273 32,5	1.1/4"	0.191 4,85	1.1/2 38,1	0.39 0,18
1.1/2"	1.900 48,3	1.500 38,1	1.1/2"	0.200 5,08	1.1/2 38,1	0.48 0,22
2"	2.375 60,3	1.939 49,3	2"	0.218 5,54	1.1/2 38,1	0.67 0,30
2.1/2"	2.875 73,0	2.323 59,0	2.1/2"	0.276 7,01	1.1/2 38,1	1.02 0,45
3"	3.500 88,9	2.900 73,7	3"	0.300 7,62	2 50,8	1.84 0,84
3.1/2"	4.000 101,6	3.364 85,4	3.1/2"	0.318 8,08	2.1/2 63,5	2.83 1,28
4"	4.500 114,3	3.826 97,2	4"	0.337 8,56	2.1/2 63,5	3.41 1,55
5"	5.563 141,3	4.813 122,3	5"	0.375 9,52	3 76,2	5.74 2,61
6"	6.625 168,3	5.761 146,3	6"	0.432 10,97	3.1/2 88,9	9.24 4,19
8"	8.625 219,1	7.625 193,7	8"	0.500 12,70	4 101,6	16.3 7,40
10"	10.750 273,0	9.750 247,7	10"	0.500 12,70	5 127,0	26.3 11,9
12"	12.750 323,9	11.750 298,5	12"	0.500 12,70	6 152,4	38.1 17,3
14"	14.000 355,6	13.000 330,2	14"	0.500 12,70	6.1/2 165,1	45.9 20,8
16"	16.000 406,4	15.000 381,0	16"	0.500 12,70	7 177,8	57.6 26,1
18"	18.000 457,2	17.000 431,8	18"	0.500 12,70	8 203,2	74.7 33,9
20"	20.000 508,0	19.000 482,6	20"	0.500 12,70	9 228,6	93.9 42,6
22"	22.000 558,8	21.000 533,4	22"	0.500 12,70	10 254,0	115 52,2
24"	24.000 609,6	23.000 584,2	24"	0.500 12,70	10.1/2 266,7	134 60,8
26"	26.000 660,4	25.000 635,0	26"	0.500 12,70	10.1/2 266,7	145 65,8
28"	28.000 711,2	27.000 685,8	28"	0.500 12,70	10.1/2 266,7	166 75,3
30"	30.000 762,0	29.000 736,6	30"	0.500 12,70	10.1/2 266,7	175 79,4
32"	32.000 812,8	31.000 787,4	32"	0.500 12,70	10.1/2 266,7	206 93,4
34"	34.000 863,6	33.000 838,2	34"	0.500 12,70	10.1/2 266,7	210 95,3
36"	36.000 914,4	35.000 889,0	36"	0.500 12,70	10.1/2 266,7	235 107,0
38"	38.000 965,2	37.000 939,8	38"	0.500 12,70	12 304,8	275 124,7
40"	40.000 1016,0	39.000 990,6	40"	0.500 12,70	12 304,8	285 129,3
42"	42.000 1066,8	41.000 1041,4	42"	0.500 12,70	12 304,8	300 136,0
44"	44.000 1117,6	43.000 1092,2	44"	0.500 12,70	13.1/2 342,9	370 167,8
46"	46.000 1168,4	45.000 1143,0	46"	0.500 12,70	13.1/2 342,9	410 186,0
48"	48.000 1219,2	47.000 1193,8	48"	0.500 12,70	13.1/2 342,9	475 215,5

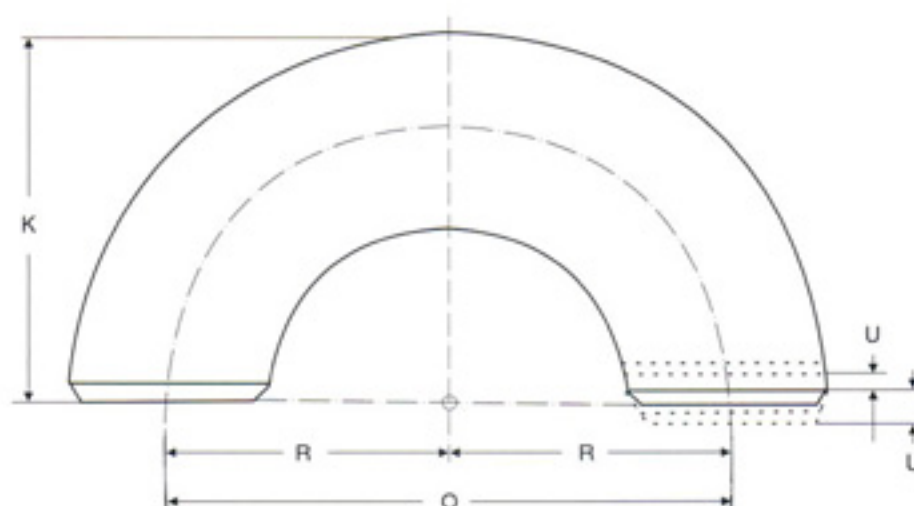
Weights: black figures=Pounds
blue figures =Kilogram
Gewichte: schwarze Zahlen=engl. Pfunde
blaue Zahlen =Kilogramm

Dimensional Tolerances for Buttwelding Fittings to ANSI B 16.9, B 16.28

Maßtoleranzen für Schweißfittings nach ANSI B 16.9, B 16.28

Dimensional Tolerances in inches		
Wall-Thickness	S	not less than 87 1/2% of nominal thickness
	NPS (inches)	inches
Outside Diameter at Bevel	D.	up to 2 1/2
		3 – 4
		5 – 8
		10 – 18
		20 – 24
		26 – 28
Inside Diameter at End	I.D.	up to 2 1/2
		3 – 8
		10 – 18
		20 – 48
45° and 90° Elbows and Center-to-End of Tees	A B R	up to 8
		10 – 24
		26 – 30
		32 – 48
Center-to-Center of 180° Returns	O	up to 8
		10 – 24
Back to Face of 180° Returns	K	all sizes
Length of Reducers	L	up to 8
		10 – 24
		26 – 48
Length of Caps	H	up to 4
		5 – 24
		26 – 48
Alignment of 180° Returns	U	up to 8
		10 – 24

Maßtoleranzen in Millimeter		
Wandstärke	S	Nicht weniger als 87 1/2% der nominalen Wandstärke
	DN (Zoll)	mm
Äußere Durchmesser an der Schweißfuge	D.	bis 3 1/2
		4
		5 – 6
		8
		10 – 18
		20 – 24
		26 – 48
Innere Durchmesser am Ende	I.D.	bis 2 1/2
		3 – 8
		10 – 18
		20 – 48
45° Und 90° Rohrbogen und Länge der T-Stücke	A B R	bis 10
		12 – 30
		32 – 48
Mittenabstand der 180° Rohrbogen	O	bis 8
		10 – 24
Gesamthöhe der 180° Rohrbogen	K	alle Größen
Länge der Red.-Stücke	L	bis 10
		12 – 30
		32 – 48
Höhe der Kappen	H	bis 4
		5 – 24
		26 – 48
Axial Tol. der Enden 180° Rohrbogen	U	up to 8
		10 – 24

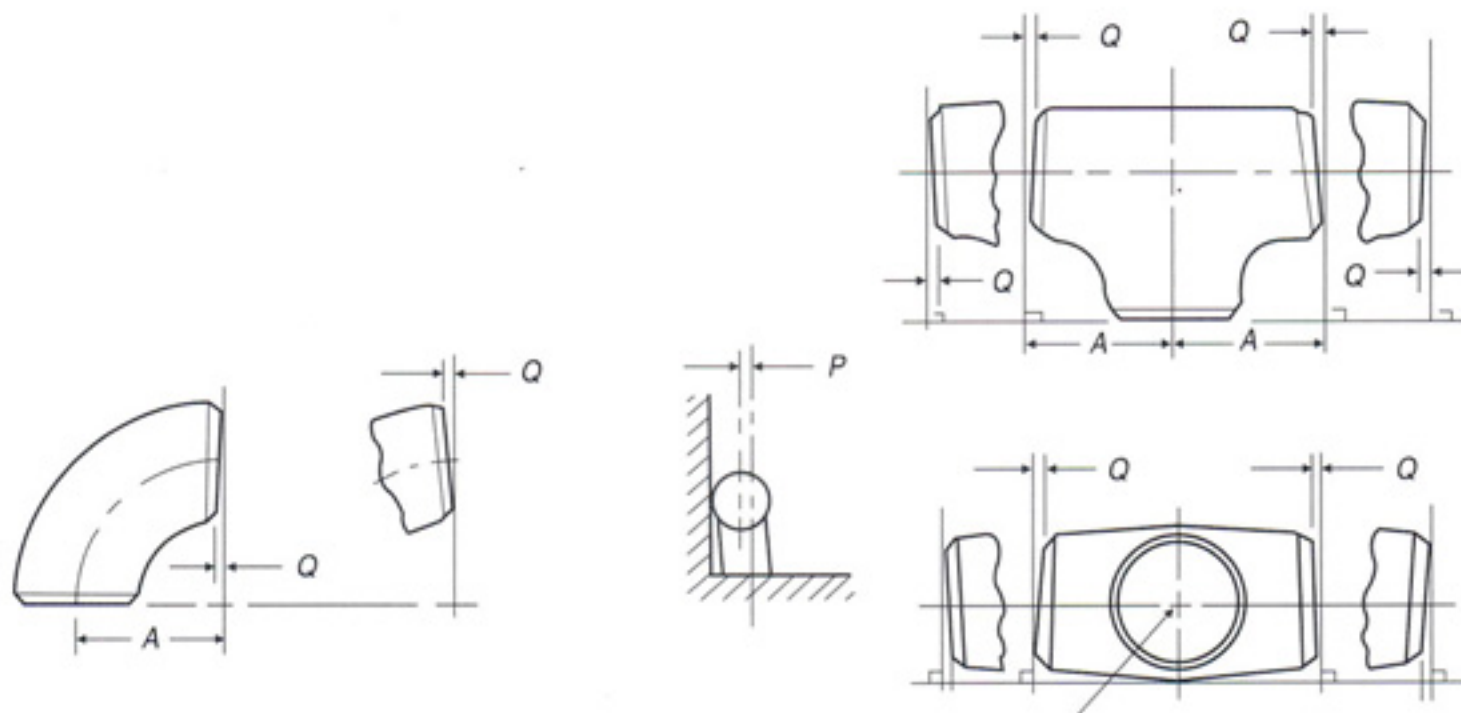


Dimensional Tolerances for Buttwelding Fittings to ANSI B 16.9, B 16.28

Maßtoleranzen für Schweißfittings nach ANSI B 16.9, B 16.28

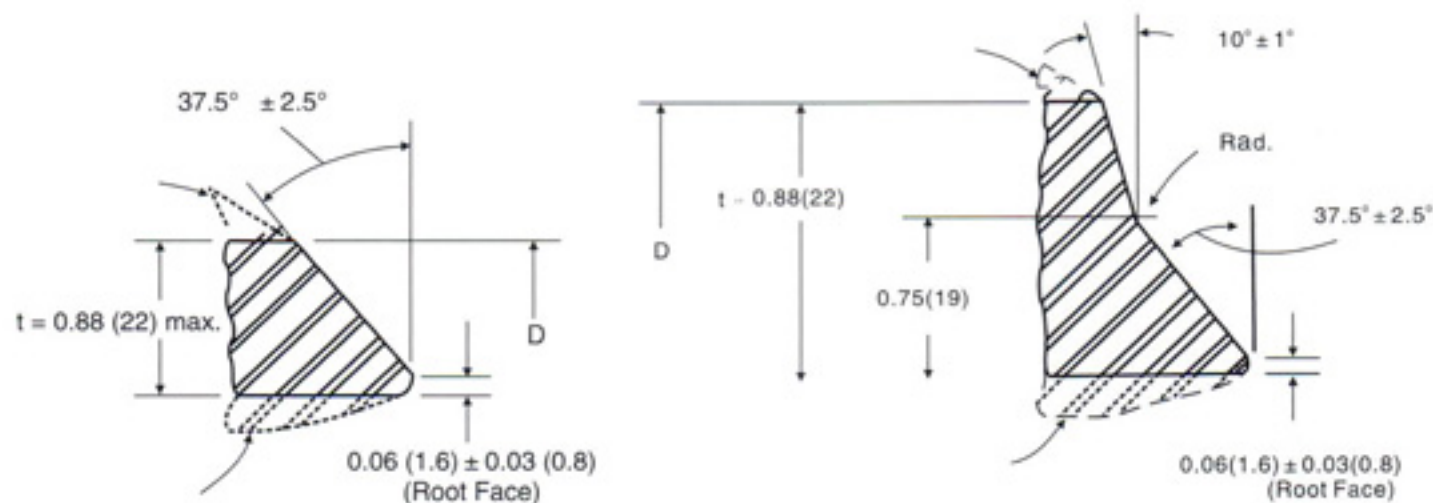
inches	inches	
Nominal Pipe Size (NPS)	Angularity Tol.	
	Off Angle Q	Off Plane P
1/2 to 4	$\pm 0,03$	$\pm 0,06$
5 to 8	$\pm 0,06$	$\pm 0,12$
10 to 12	$\pm 0,09$	$\pm 0,19$
14 to 16	$\pm 0,09$	$\pm 0,25$
18 to 24	$\pm 0,12$	$\pm 0,38$
26 to 30	$\pm 0,19$	$\pm 0,38$
32 to 42	$\pm 0,19$	$\pm 0,50$
44 to 48	$\pm 0,19$	$\pm 0,75$

Zoll	mm	
Rohr- Nenn- durchmesser (DN)	Winkel-Toleranz	
	Maß Q	Maß P
bis 4	± 1	± 2
5 - 8	± 2	± 4
10 - 12	± 3	± 5
14 - 16	± 3	± 7
18 - 24	± 4	± 10
26 - 30	± 5	± 10
32 - 42	± 5	± 13
44 - 48	± 5	± 20



Bevelled ends to ANSI B 16.9

Schweißkanten nach ANSI B 16.9



Dimensions in parantheses are in millimeters.

Comparison of Pipe Materials

Werkstoffvergleich (with reference to our manufacturing program)
 –Rohre– (bezogen auf unser Lieferprogramm)

USA		Germany			Great Britain		France	
Designation (Grade)	ASTM, API, UNS, ...	Designation (Typ)	Mat.-No.	DIN ...	Designation (Grade)	BS ...	Designation (Typ)	NF ...
TP 304	S 304 00	X 5 CrNi 189	1.4301	17458 (17457)	304 S 18	3605	Z 6 CN 18.09	A 35-572
TP 304 L	S 304 03	X 2 CrNi 189	1.4306	17458 (17457)	304 S 14	3605	Z 2 CN 18.10	A 35-572
TP 316	S 316 00	X 5 CrNiMo 1810	1.4401	17458 (17457)	316 S 18	3605	Z 6 CND 17.11	A 35-572
TP 316 L	S 316 03	X 2 CrNiMo 1810	1.4404	17458 (17457)	316 S 14	3605	Z 2 CND 17.12	A 35-572
TP 321	S 321 00	X 10 CrNiTi 189	1.4541	17458 (17457)	321 S 18	3605	Z 6 CNT 18.10	A 35-572
TP 316 Ti	-	X 10 CrNiMoTi 1810	1.4571	17458 (17457)	320 S 17	970/4	Z 6 CNDT 17.12	A 35-572
X 42	Spec. 5 L	St E 290.7	1.0484	17172	-	-	-	-
X 52	Spec. 5 L	St E 360.7	1.0582	17172	-	-	TS E 360	A 49-411
6	A 333	St E 285	1.0486	17179	224 400	1501 Part 1	E 26 3+4	A 35-501
Y 42	A 381	T St E 285	1.0488	17179	43 C	4360 Sect. 7	A 42 FP	A 36-205
Y 52	A 381	T St E 355	1.0566	17179	225 490	1501	E 355 FP 2	A 36-201
Y 65	A 381	T St E 460	1.8915	17179	55 F	4360 Sect. 7	-	-

Comparison of Pipe Materials

Werkstoffvergleich (with reference to our manufacturing program)
 –Rohre– (bezogen auf unser Lieferprogramm)

USA		Germany			Great Britain		France	
Designation (Grade)	ASTM, API, UNS, ...	Designation (Typ)	Mat.-No.	DIN ...	Designation (Grade)	BS ...	Designation (Typ)	NF ...
A	A 53	St 37.0	1.0254	1629	S 360	3601	TU E 220 A	A 49-112
3	A 252	St 52.0	1.0421	1629	50 B	4360	TU 52-b	A 49-311
A	A 53+A 106	St 35.8	1.0305	17175	HFS 360	3602/1	TU 37-c	A 49-212
B	A 106	St 45.8	1.0405	17175	HFS 430	3602/1	TU 42-c	A 49-212
-	-	15 Mo 3	1.5415	17175	243	3059/2	TU 15 D 3	A 49-213
P 12	A 335	13Cr Mo 44	1.7335	17175	620-460	3604	TU 23 CD 4-04	A 49-213
P 11	A 335	-	-	-	621	3604	TU 10 CD 5-05	A 49-213
P 22	A 335	10 Cr Mo 910	1.7380	17175	622	3604	TU 10 CD 9-10	A 49-215
P 5	A 335	12 Cr Mo 195	1.7362	-	625	3606	TUZ 12 CD 5-05	A 49-213
1	A 333+A 334	TT St 35 N	1.0356	17173	-	-	TS 34 BT	A 49-245
3	A333	10 Ni 14	1.5637	17173	503 LT 100	3603	3,5 Ni 28	A 49-208

Wall Thicknesses According to ANSI B 36.10

Wandstärken gemäß ANSI B 36.10

Nom. Pipe Size Nenn- weite	Outside Diameter Außendurch- messer	Sch. 5		Sch. 10		Sch. 20		Sch. 30		Sch. 40		Sch. 60		XS		Sch. 80		Sch. 100		Sch. 120		Sch. 140		Sch. 160		XXS	
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1/8"	0.405	0.405	10,3	-	-	-	-	-	-	-	-	-	-	0.095	2,41	-	-	-	-	-	-	-	-	-	-	-	-
1/4"	0.540	0.540	13,7	-	-	-	-	-	-	-	-	-	-	0.119	3,02	-	-	-	-	-	-	-	-	-	-	-	-
3/8"	0.675	0.675	17,1	-	-	-	-	-	-	-	-	-	-	0.126	3,20	-	-	-	-	-	-	-	-	-	-	-	-
1/2"	0.840	0.840	21,3	0.065	1,65	0.083	2,11	-	-	-	-	-	-	0.147	3,73	-	-	-	-	-	-	-	-	0.188	4,78	0.294	7,47
3/4"	1.050	1.050	26,7	0.065	1,65	0.083	2,11	-	-	-	-	-	-	0.154	3,91	-	-	-	-	-	-	-	-	0.219	5,56	0.308	7,82
1"	1.315	1.315	33,4	0.065	1,65	0.109	2,77	-	-	-	-	-	-	0.179	4,55	-	-	-	-	-	-	-	-	0.250	6,35	0.358	9,09
1.1/4"	1.660	1.660	42,2	0.065	1,65	0.109	2,77	-	-	-	-	-	-	0.191	4,85	-	-	-	-	-	-	-	-	0.250	6,35	0.382	9,70
1.1/2"	1.900	1.900	48,3	0.065	1,65	0.109	2,77	-	-	-	-	-	-	0.200	5,08	-	-	-	-	-	-	-	-	0.281	7,14	0.400	10,16
2"	2.375	2.375	60,3	0.065	1,65	0.109	2,77	-	-	-	-	-	-	0.218	5,54	-	-	-	-	-	-	-	-	0.344	8,74	0.436	11,07
2.1/2"	2.875	2.875	73,0	0.083	2,11	0.120	3,05	-	-	-	-	-	-	0.276	7,01	-	-	-	-	-	-	-	-	0.375	9,53	0.552	14,02
3"	3.500	3.500	88,9	0.083	2,11	0.120	3,05	-	-	-	-	-	-	0.300	7,62	-	-	-	-	-	-	-	-	0.438	11,13	0.600	15,24
3.1/2"	4.000	4.000	101,6	0.083	2,11	0.120	3,05	-	-	-	-	-	-	0.318	8,08	-	-	-	-	-	-	-	-	-	-	0.636	16,15
4"	4.500	4.500	114,3	0.083	2,11	0.120	3,05	-	-	-	-	-	-	0.337	8,56	-	-	-	-	0.438	11,13	-	-	0.531	13,49	0.674	17,12
5"	5.563	5.563	141,3	0.109	2,77	0.134	3,40	-	-	-	-	-	-	0.375	9,53	-	-	-	-	0.500	12,70	-	-	0.625	15,88	0.750	19,05
6"	6.625	6.625	168,3	0.109	2,77	0.134	3,40	-	-	-	-	-	-	0.432	10,97	-	-	-	-	0.562	14,27	-	-	0.719	18,26	0.864	21,95
8"	8.625	8.625	219,1	0.109	2,77	0.148	3,76	0.025	6,35	0.277	7,04	0.322	8,18	0.500	12,70	0.594	15,09	0.719	18,26	0.812	20,62	0.906	23,01	1.125	28,58	1.000	25,40
10"	10.750	10.750	273,1	0.134	3,40	0.165	4,19	0.025	6,35	0.307	7,80	0.365	9,27	0.500	12,70	0.594	15,09	0.719	18,26	0.844	21,44	1.000	25,40	1.125	28,58	1.000	25,40
12"	12.750	12.750	323,9	0.165	4,19	0.180	4,57	0.250	6,35	0.330	8,38	0.375	9,53	0.500	12,70	0.688	17,48	0.844	21,44	1.000	25,40	1.125	28,58	1.312	33,32	1.000	25,40
14"	14.000	14.000	355,6	-	-	0.250	6,35	0.312	7,92	0.375	9,53	0.375	9,53	0.500	12,70	0.750	19,05	0.938	23,83	1.094	27,79	1.250	31,75	1.406	35,71	-	-
16"	16.000	16.000	406,4	-	-	0.250	6,35	0.312	7,92	0.375	9,53	0.375	9,53	0.500	12,70	0.844	21,44	1.031	26,19	1.219	30,96	1.438	36,53	1.594	40,49	-	-
18"	18.000	18.000	457,2	-	-	0.250	6,35	0.312	7,92	0.438	11,13	0.375	9,53	0.500	12,70	0.938	23,83	1.156	29,36	1.375	34,93	1.562	39,67	1.781	45,24	-	-
20"	20.000	20.000	508,0	-	-	0.250	6,35	0.375	9,53	0.500	12,70	0.375	9,53	0.500	12,70	1.031	26,19	1.281	32,54	1.500	38,10	1.750	44,45	1.969	50,01	-	-
22"	22.000	22.000	558,8	-	-	0.250	6,35	0.375	9,53	0.500	12,70	0.375	9,53	0.500	12,70	1.125	28,58	1.375	34,93	1.625	41,28	1.875	47,63	2.125	53,98	-	-
24"	24.000	24.000	609,6	-	-	0.250	6,35	0.375	9,53	0.562	14,27	0.375	9,53	0.500	12,70	1.219	30,96	1.531	38,89	1.812	46,02	2.062	52,37	2.344	59,54	-	-
26"	26.000	26.000	660,4	-	-	0.312	7,92	0.500	12,70	-	-	0.375	9,53	0.500	12,70	-	-	-	-	-	-	-	-	-	-	-	-
28"	28.000	28.000	711,2	-	-	0.312	7,92	0.500	12,70	0.625	15,88	0.375	9,53	0.500	12,70	-	-	-	-	-	-	-	-	-	-	-	-
30"	30.000	30.000	762,0	-	-	0.312	7,92	0.500	12,70	0.625	15,88	0.375	9,53	0.500	12,70	-	-	-	-	-	-	-	-	-	-	-	-
32"	32.000	32.000	812,8	-	-	0.312	7,92	0.500	12,70	0.625	15,88	0.375	9,53	0.500	12,70	-	-	-	-	-	-	-	-	-	-	-	-
34"	34.000	34.000	863,6	-	-	0.312	7,92	0.500	12,70	0.625	15,88	0.375	9,53	0.500	12,70	-	-	-	-	-	-	-	-	-	-	-	-
36"	36.000	36.000	914,4	-	-	0.312	7,92	0.500	12,70	0.625	15,88	0.375	9,53	0.500	12,70	-	-	-	-	-	-	-	-	-	-	-	-

Dimensions and Weight of Welded and Seamless Steel Pipe to ANSI B 36.10 (ASA B 36.10)

Abmessungen und Gewichte für geschweißte und nahtlose Stahlrohre nach ANSI B 36.10 (ASA B 36.10)

Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser		Wall Thickness Wanddicke		Weight Gewicht		Identification Kennzeichnung		
	Inch	mm	Inch	mm	Lb/Ft	kg/m	API STD	Standard XS XXS	Sched. No.
1/8"	0.405	10,3	0.068 0.085	1,73 2,41	0.24 0.31	0,36 0,46	5L 5L	STD XS	40 80
1/4"	0.540	13,7	0.088 0.119	2,24 3,02	0.42 0.54	0,63 0,80	5L 5L	STD XS	40 80
3/8"	0.675	17,1	0.091 0.126	2,31 3,20	0.57 0.74	0,85 1,10	5L 5L	STD XS	40 80
1/2"	0.840	21,3	0.109 0.147 0.188 0.294	2,77 3,73 4,76 7,47	0.85 1.09 1.31 1.71	1,26 1,62 1,95 2,54	5L 5L 5L	STD XS XXS	40 80 160
3/4"	1.050	26,7	0.113 0.154 0.219 0.308	2,87 3,91 5,56 7,82	1.13 1.47 1.94 2.44	1,68 2,19 2,89 3,63	5L 5L 5L	STD XS XXS	40 80 160
1"	1.315	33,4	0.133 0.179 0.250 0.358	3,38 4,55 6,35 9,09	1.68 2.17 2.84 3.66	2,50 3,23 4,23 5,45	5L 5L 5L	STD XS XXS	40 80 160
1.1/4"	1.660	42,2	0.140 0.191 0.250 0.382	3,56 4,85 6,35 9,70	2.72 3.00 3.76 5.21	3,38 4,46 5,60 7,75	5L 5L 5L	STD XS XXS	40 80 160
1.1/2"	1.900	48,3	0.145 0.200 0.281 0.400	3,68 5,08 7,14 10,16	2.72 3.63 4.86 6.41	4,05 5,40 7,23 9,54	5L 5L 5L	STD XS XXS	40 80 160
2"	2.375	60,3	0.154 0.218 0.344 0.436	3,91 5,54 8,74 11,07	3.65 5.02 7.46 9.03	5,43 7,47 11,10 13,44	5L 5L 5L	STD XS XXS	40 80 160
2.1/2"	2.875	73,0	0.203 0.276 0.375 0.552	5,16 7,01 9,52 14,02	5.79 7.66 10.01 13.70	8,62 11,40 14,90 20,39		STD XS XXS	40 80 160
3"	3.500	88,9	0.125 0.156 0.188 0.216 0.250 0.281 0.300 0.438 0.600	3,18 3,96 4,78 5,49 6,35 7,14 7,62 11,13 15,24	4.51 5.58 6.63 7.58 8.68 9.67 10.25 14.31 18.58	6,71 8,30 9,87 11,28 12,92 14,39 15,25 21,30 27,65	5L 5L 5L 5L 5L 5L 5L 5L	STD XS XXS	40 80 160
3.1/2"	4.000	101,6	0.125 0.156 0.188 0.226 0.250 0.281 0.318	3,18 3,96 4,78 5,74 6,35 7,14 8,18	5.17 6.41 7.63 9.11 10.01 11.17 12.51	7,69 9,54 11,35 13,56 14,90 16,62 18,62	5L 5L 5L 5L 5L 5L 5L	STD XS	40 80
4"	4.500	114,3	0.125 0.156 0.188 0.219 0.237 0.250 0.281 0.312 0.337 0.438 0.531 0.674	3,18 3,96 4,78 5,56 6,02 6,35 7,14 7,92 8,56 11,13 13,49 17,12	5.84 7.25 8.64 10.00 10.79 11.35 12.67 13.98 14.98 18.98 22.52 27.54	8,69 10,78 12,86 14,88 16,06 16,89 18,86 20,81 22,29 28,25 33,51 40,99	5L 5LX 5L 5LX 5L 5LX 5L 5LX 5L 5LX 5L 5LX 5L 5LX 5L 5LX 5L 5LX 5L 5LX 5L 5LX 5L 5LX	STD XS XXS	40 80 120 160

Seamless Steel Pipe to ANSI B 36.10 (ASA B 36.10)

Abmessungen und Gewichte für geschweißte und nahtlose Stahlrohre nach ANSI B 36.10 (ASA B 36.10)

Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser		Wall Thickness Wanddicke		Weight Gewicht		Identification Kennzeichnung		
							API STD	Standard XS XXS	Sched. No..
NW	Inch	mm	Inch	mm	Lb/Ft	kg/m			
5"	5.563	141,3	0.156	3,96	9.02	13,42	5L	STD	40
			0.188	4,78	10.76	16,07	5L		
			0.219	5,56	12.49	18,59	5L		
			0.258	6,55	14.62	21,76	5L		
			0.281	7,14	15.87	23,62	5L		
			0.312	7,92	17.52	26,07	5L	XS	80 120 160
			0.344	8,74	19.16	28,51	5L		
			0.375	9,52	20.78	30,92	5L		
			0.500	12,70	27.04	40,24	5L		
			0.625	15,88	32.96	49,05	5L		
			0.750	19,05	38.55	57,37	5L	XXS	
6"	6.625	168,3	0.188	4,78	12.89	19,18	5L 5LX	STD	40
			0.219	5,56	14.97	22,28	5L 5LX		
			0.250	6,35	17.02	25,33	5L 5LX		
			0.280	7,11	18.97	28,23	5L 5LX		
			0.312	7,92	21.07	31,36	5L 5LX		
			0.344	8,74	23.06	34,32	5L 5LX	XS	80 120 160
			0.375	9,52	25.03	37,25	5L 5LX		
			0.432	10,97	28.57	42,53	5L 5LX		
			0.562	14,27	36.42	54,20	5L 5LX		
			0.719	18,26	45.34	67,47	5L 5LX		
			0.864	21,95	53.16	79,11	5L	XXS	
8"	8.625	219,1	0.188	4,78	16.90	25,15	5L 5LX	STD	20 30 40 60
			0.203	5,16	18.27	27,19	5LX		
			0.219	5,56	19.64	29,23	5L 5LX		
			0.250	6,35	22.36	33,28	5L 5LX		
			0.277	7,04	24.70	36,76	5L 5LX		
			0.312	7,92	27.74	41,28	5L 5LX		
			0.322	8,18	28.55	42,49	5L 5LX		
			0.344	8,74	30.40	45,24	5L 5LX		
			0.375	9,52	33.04	49,17	5L 5LX	XS	80 100 120 140 160
			0.406	10,31	35.66	53,07			
			0.438	11,13	38.26	56,94	5L 5LX		
			0.500	12,70	43.39	64,57	5L 5LX		
			0.594	15,09	50.93	75,79			
			0.719	18,26	60.69	90,32	5L 5LX		
			0.812	20,62	67.79	100,89			
			0.875	22,22	72.42	107,78	5L		
0.906	23,01	74.71	111,18		XXS				
10"	10.750	273,0	0.188	4,78	21.15	31,48	5L 5LX	STD	20 30 40 60 80 100 120 140 160
			0.203	5,16	22.88	34,05	5LX		
			0.219	5,58	24.60	36,61	5L 5LX		
			0.250	6,35	28.04	41,73	5L 5LX		
			0.279	7,09	31.20	46,43	5L 5LX		
			0.307	7,80	34.24	50,96	5L 5LX		
			0.344	8,74	38.20	56,85	5L 5LX		
			0.365	9,27	40.48	60,24	5L 5LX		
			0.438	11,13	48.19	71,72	5L 5LX	XS	
			0.500	12,70	54.74	84,46	5L 5LX		
			0.594	15,09	64.40	95,84			
			0.719	18,26	77.00	114,59	5L 5LX		
			0.844	21,44	89.27	132,85			
			1.000	25,40	104.13	154,97			XXS
1.125	28,58	115.65	172,11						
12"	12.750	323,9	0.203	5,16	27.22	40,51	5LX	STD	20 30 40 60 80 100 120 140 160
			0.219	5,56	29.28	43,57	5L 5LX		
			0.250	6,35	33.39	49,68	5L 5LX		
			0.281	7,14	37.45	55,73	5L 5LX		
			0.312	7,92	41.51	61,78	5L 5LX		
			0.330	8,38	43.77	65,14	5L 5LX		
			0.344	8,74	45.55	67,79	5L 5LX		
			0.375	9,52	49.56	73,76	5L 5LX		
			0.406	10,31	53.56	79,71	5L 5LX	XS	
			0.438	11,13	57.53	85,62	5L 5LX		
			0.500	12,70	65.42	97,36	5L 5LX		
			0.562	14,27	73.22	108,97	5L 5LX		
			0.688	17,48	88.57	131,81	5L 5LX		
			0.844	21,44	107.29	159,67			
			1.000	25,40	125.49	186,75			XXS
			1.125	28,58	139.68	207,87			
1.312	33,32	160.33	238,60						
14"	14.000	355,6	0.210	5,33	30.93	46,03	5LX	STD	10 20 30 40
			0.219	5,56	32.20	47,92	5LX		
			0.250	6,35	36.71	54,63	5L 5LX		
			0.281	7,14	41.21	61,33	5L 5LX		
			0.312	7,92	45.68	67,98	5L 5LX		
			0.344	8,74	50.14	74,62	5L 5LX		
			0.375	9,52	54.57	81,21	5L 5LX		
			0.438	11,13	63.37	94,31	5L 5LX		
			0.469	11,91	67.78	100,87	5LX		

Dimensions and Weight of Welded and Seamless Steel Pipe to ANSI B 36.10 (ASA B 36.10)

Abmessungen und Gewichte für geschweißte und nahtlose Stahlrohre nach ANSI B 36.10 (ASA B 36.10)

Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser		Wall Thickness Wanddicke		Weight Gewicht		Identification Kennzeichnung								
	Inch	mm	Inch	mm	Lb/Ft	kg/m	API STD	Standard XS XXS	Sched. No.						
14"	14.000	355,6	0.500	12,70	72.09	107,28	5L 5LX		60 80 100 120 140 160						
			0.594	15,09	85.01	126,51	5L 5LX								
			0.750	19,05	106.13	157,94									
			0.938	23,83	130.79	194,64									
			1.094	27,79	150.76	224,36									
			1.250	31,75	170.22	253,32									
			1.406	35,71	189.15	281,49									
			2.000	50,80	256.32	381,46									
			2.125	53,98	269.51	401,08									
			2.200	55,88	277.26	412,62									
			2.500	63,50	307.05	456,95									
			16"	16.000	406,4	0.219				5,58	36.87	54,87	5LX	STD	10 20 30 40 60 80 100 120 140 160
0.250	6,35	42.05				62,58	5L 5LX								
0.281	7,14	47.22				70,27	5L 5LX								
0.312	7,92	52.36				77,92	5L 5LX								
0.344	8,74	57.48				85,54	5L 5LX								
0.375	9,52	62.58				93,13	5L 5LX								
0.438	11,13	72.72				108,22	5L 5LX								
0.469	11,91	77.75				115,71	5LX								
0.500	12,70	82.77				123,18	5L 5LX								
0.656	16,66	107.54				160,04	XS								
0.844	21,44	136.58				203,26									
1.031	20,19	164.86				245,34									
1.219	30,96	192.40				286,33									
1.438	36,53	223.57				332,72									
1.594	40,49	245.22				364,94									
18"	18.000	457,2				0.250		6,35	47.39	70,53	5L 5LX	STD	10 20 30 40 60 80 100 120 140 160		
						0.281		7,14	53.22	79,20	5L 5LX				
						0.312		7,92	59.03	87,85	5L 5LX				
						0.344		8,74	64.82	96,47	5L 5LX				
						0.375		9,52	70.59	105,05	5L 5LX				
						0.406		10,31	76.34	113,61	5LX				
						0.438		11,13	82.06	122,12	5L 5LX				
						0.469		11,91	87.77	130,62	5LX				
			0.500	12,70	93.45	139,07	5L 5LX								
			0.562	14,27	104.76	155,90	5L 5LX								
			0.750	19,05	138.17	205,62	5L 5LX								
			0.938	23,83	170.84	254,24	XS								
1.156	29,36	208.00	309,55												
1.375	34,92	244.14	363,33												
1.562	39,67	274.30	408,21												
1.781	45,24	308.55	459,18												
20"	20.000	508,0	0.250	6,35	52.73	78,47		5L 5LX	STD	10 20 30 40 60 80 100 120 140 160					
			0.281	7,14	59.23	88,15		5L 5LX							
			0.312	7,92	65.71	97,79		5L 5LX							
			0.344	8,74	72.16	107,39	5L 5LX								
			0.375	9,52	78.60	116,97	5L 5LX								
			0.406	10,31	85.01	126,51	5LX								
			0.438	11,13	91.41	136,04	5L 5LX								
			0.469	11,91	97.78	145,52	5LX								
			0.500	12,70	104.13	154,97	5L 5LX								
			0.594	15,09	123.06	183,14	5L 5LX								
			0.812	20,62	166.50	247,79									
			1.031	26,19	208.92	310,91									
			1.281	32,54	256.15	381,20									
			1.500	38,10	296.37	441,06									
			1.750	44,45	341.10	507,63									
			1.969	50,01	379.14	564,24									
			22"	22.000	558,8	0.250		6,35			58.07	86,42	5L 5LX	STD	10 20 30 40 60 80 100 120 140 160
						0.281		7,14			65.24	97,09	5L 5LX		
						0.312		7,92			72.38	107,72	5L 5LX		
0.344	8,74	79.51				118,33	5L 5LX								
0.375	9,52	86.61				128,89	5L 5LX								
0.406	10,31	93.69				139,43	5LX								
0.438	11,13	100.75				149,94	5L 5LX								
0.469	11,91	107.79				160,41	5LX								
0.500	12,70	114.81				170,86	5L 5LX								
0.625	15,88	142.88				212,34	5L 5LX								
0.875	22,22	197.42				293,80	XS								
1.125	28,58	250.82				373,27									
1.375	31,92	302.88				450,75									
1.625	41,28	353.61				526,24									
1.875	47,62	403.01				599,76									
2.125	53,98	451.07				671,28									
24"	24.000	609,6				0.250		6,35	63.41	94,37	5L 5LX	STD	10 20		
						0.281		7,14	71.25	106,03	5L 5LX				
						0.312		7,92	79.05	117,66	5L 5LX				
						0.344		8,74	86.85	129,25	5L 5LX				
						0.375	9,52	94.62	140,81	5L 5LX					
			0.406	10,31	102.37	152,35	5LX								
			0.438	11,13	110.10	163,85	5L 5LX								
			0.469	11,91	117.81	175,52	5LX								

Dimensions and Weight of Welded and Seamless Steel Pipe to ANSI B 36.10 (ASA B 36.10)

Abmessungen und Gewichte für geschweißte und nahtlose Stahlrohre nach ANSI B 36.10 (ASA B 36.10)

Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser		Wall Thickness Wanddicke		Weight Gewicht		Identification Kennzeichnung		
	Inch	mm	Inch	mm	Lb/Ft	kg/m	API STD	Standard XS XXS	Sched. No..
24"	24.000	609,6	0.500	12,70	125,49	186,75	5L 5LX	XS	
			0.562	14,27	140,80	209,54	5L 5LX		30
			0.688	17,48	171,17	254,75	5L 5LX		40
			0.969	24,61	238,29	354,62			60
			1.216	30,96	296,53	441,30			80
			1.531	38,89	367,45	546,84			100
			1.812	46,02	429,50	639,18			120
			2.062	52,37	483,24	719,16			140
			2.344	59,54	542,09	806,74			160
26"	26.000	660,4	0.250	6,35	68,75	102,31	5L 5LX	STD	10
			0.281	7,14	77,25	114,96	5L 5LX		
			0.312	7,92	85,73	127,58	5L 5LX		
			0.344	8,74	94,19	140,17	5L 5LX		
			0.375	9,52	102,63	152,73	5L 5LX		
			0.406	10,31	111,05	165,26	5LX	XS	20
			0.438	11,13	119,44	177,75	5L 5LX		
			0.469	11,91	127,82	190,22	5LX		
			0.500	12,70	136,17	202,65	5L 5LX		
			0.562	14,27	152,82	227,43	5L 5LX		
28"	28.000	711,2	0.250	6,35	74,09	110,26	5LX	STD	10
			0.281	7,14	83,26	123,91	5LX		
			0.312	7,92	92,41	137,52	5LX		
			0.344	8,74	101,53	151,10	5LX		
			0.375	9,52	110,64	164,65	5L 5LX		
			0.406	10,31	119,72	178,17	5LX	XS	20
			0.438	11,13	128,79	191,67	5L 5LX		
			0.469	11,91	137,83	205,12	5LX		
			0.500	12,70	146,85	218,54	5L 5LX		
			0.625	15,88	182,73	291,94	5L 5LX		
30"	30.000	762,0	0.250	6,35	79,43	118,21	5LX	STD	10
			0.281	7,14	88,27	132,85	5LX		
			0.312	7,92	99,08	147,45	5LX		
			0.344	8,74	108,88	162,04	5LX		
			0.375	9,52	118,65	176,57	5L 5LX		
			0.406	10,31	128,40	191,08	5LX	XS	20
			0.438	11,13	138,13	205,57	5L 5LX		
			0.469	11,91	147,84	220,02	5LX		
			0.500	12,70	157,53	234,44	5L 5LX		
			0.625	15,88	196,08	291,81	5L 5LX		
32"	32.000	812,8	0.250	6,35	84,77	126,15	5LX	STD	10
			0.281	7,14	95,28	141,80	5LX		
			0.312	7,92	105,76	157,39	5LX		
			0.344	8,74	116,22	172,96	5LX		
			0.375	9,52	126,66	188,50	5L 5LX		
			0.406	10,31	137,08	204,00	5LX	XS	20
			0.438	11,13	147,48	219,48	5L 5LX		
			0.469	11,91	157,86	234,93	5LX		
			0.500	12,70	168,21	250,33	5L 5LX		
			0.625	15,88	209,43	311,67	5L 5LX		
34"	34.000	863,6	0.250	6,35	90,11	134,10	5LX	STD	10
			0.281	7,14	101,28	150,72	5LX		
			0.312	7,92	112,43	167,32	5LX		
			0.344	8,74	123,56	183,88	5LX		
			0.375	9,52	134,67	200,42	5L 5LX		
			0.406	10,31	145,76	216,92	5LX	XS	20
			0.438	11,13	156,82	233,38	5L 5LX		
			0.469	11,91	167,87	249,82	5LX		
			0.500	12,70	178,89	266,22	5L 5LX		
			0.625	15,88	222,78	331,54	5L 5LX		
36"	36.000	914,4	0.250	6,35	95,45	142,05	5LX	STD	10
			0.281	7,14	107,29	159,67	5LX		
			0.312	7,92	119,11	177,26	5LX		
			0.344	8,74	130,90	194,81	5LX		
			0.375	9,52	142,68	212,34	5L 5LX		
			0.406	10,31	154,43	229,82	5LX	XS	20
			0.438	11,13	166,17	247,29	5L 5LX		
			0.469	11,91	177,88	264,72	5LX		
			0.500	12,70	189,57	282,12	5L 5LX		
			0.562	14,27	212,89	316,82	5L 5LX		
			0.625	15,88	236,13	351,41	5L 5LX	XS	30
			0.750	19,05	282,36	420,21			40

Dimensions and Weight of Welded and Seamless Steel Pipe to ANSI B 36.10 (ASA B 36.10)

Abmessungen und Gewichte für geschweißte und nahtlose Stahlrohre nach ANSI B 36.10 (ASA B 36.10)

Nominal Pipe Size Nennweite	Outside Diameter Außendurchmesser		Wall Thickness Wanddicke		Weight Gewicht		Identification Kennzeichnung		
	Inch	mm	Inch	mm	Lb/Ft	kg/m	API STD	Standard XS XXS	Sched. No..
36"	36.000	965,2	0.312	7,92	125.58	187,05		STD	
			0.344	8,74	138.35	206,07			
			0.375	9,52	150.69	224,45			
			0.406	10,31	163.01	242,80			
			0.438	11,13	175.71	261,72			
			0.469	11,91	187.99	280,01		XS	
			0.500	12,70	200.25	298,27			
			0.562	14,27	224.71	334,71			
			0.625	15,88	249.48	371,60			
			0.688	17,48	274.16	408,36			
			0.750	19,05	298.37	444,42			
			0.812*	20,62	322.50	480,36			
			0.875*	22,22	346.93	516,75			
			0.938*	23,83	371.28	553,02			
			1.000*	25,40	395.16	588,59			
40"	40.000	1016,0	0.312	7,92	132.25	196,99		STD	
			0.344	8,74	145.69	217,01			
			0.375	9,52	158.70	236,38			
			0.406	10,31	171.68	255,72			
			0.438	11,13	185.06	275,65			
			0.469	11,91	198.01	294,94		XS	
			0.500	12,70	210.93	314,18			
			0.562	14,27	236.71	352,58			
			0.625	15,88	262.83	391,49			
			0.688	17,48	288.86	430,26			
			0.750	19,05	314.39	468,28			
			0.812*	20,62	339.84	506,19			
			0.875*	22,22	365.62	544,59			
			0.938*	23,83	391.32	582,87			
			1.000*	25,40	416.52	620,41			
42"	42.000	1066,8	0.344	8,74	153.04	227,95		STD	
			0.375	9,52	166.71	248,31			
			0.406	10,31	180.35	268,63			
			0.438	11,13	194.42	289,59			
			0.469	11,91	208.03	309,86		XS	
			0.500	12,70	221.61	330,09			
			0.562	14,27	248.72	370,47			
			0.625	15,88	276.18	411,37			
			0.688	17,48	303.55	452,14			
			0.750	19,05	330.41	492,15			
			0.812*	20,62	357.19	532,03			
			0.875*	22,22	384.31	572,43			
			0.938*	23,83	411.35	612,71			
			1.000*	25,40	437.88	652,22			
44"	44.000	1117,6	0.344	8,74	160.39	238,90		STD	
			0.375	9,52	174.72	260,25			
			0.406	10,31	189.03	281,56			
			0.438	11,13	203.78	303,53			
			0.469	11,91	218.04	324,77		XS	
			0.500	12,70	232.29	346,00			
			0.562	14,27	260.72	388,34			
			0.625	15,88	289.53	431,25			
			0.688	17,48	318.25	474,03			
			0.750	19,05	346.43	516,01			
			0.812*	20,62	374.53	557,86			
			0.875*	22,22	403.00	600,27			
			0.938*	23,83	431.39	642,56			
			1.000*	25,40	459.24	684,04			
46"	46.000	1168,4	0.344	8,74	167.74	249,85		STD	
			0.375	9,52	182.73	272,18			
			0.406	10,31	197.70	294,47			
			0.438	11,13	213.13	317,46			
			0.469	11,91	228.06	339,70		XS	
			0.500	12,70	242.97	361,90			
			0.562	14,27	272.73	406,23			
			0.625	15,88	302.88	451,14			
			0.688	17,48	332.95	495,93			
			0.750	19,05	362.45	539,87			
			0.812*	20,62	391.88	583,71			
			0.875*	22,22	421.69	628,11			
			0.938*	23,83	451.42	672,39			
			1.000*	25,40	480.60	715,85			
48"	48.000	1219,2	0.344	8,74	175.08	260,78		STD	
			0.375	9,52	190.74	284,11			
			0.406	10,31	206.37	307,39			
			0.438	11,13	222.49	331,40			
			0.469	11,91	238.08	354,62		XS	
			0.500	12,70	253.65	377,81			
			0.562	14,27	284.73	424,11			
			0.625	15,88	316.23	471,02			
			0.688	17,48	347.64	517,81			
			0.750	19,05	378.47	563,73			
			0.812*	20,62	409.22	609,53			
			0.875*	22,22	440.38	655,95			
			0.938*	23,83	471.46	702,24			
			1.000*	25,40	501.96	747,67			

* Acc. to API Std 5 L

* Nach API Std 5 L.

Approx. Weight of Fittings in other schedule

Gewichte von Fittings in anderen Schedules

Elbows LR 90°

NB	Approx. Weights in kg/pc. for 90° elbows 1)										
	Schedule 10	Schedule 20	Schedule 30	Schedule 40	Schedule 60	Schedule 80	Schedule 100	Schedule 120	Schedule 140	Schedule 160	XXS
1/2"				0,08		0,1					
3/4"	0,06			0,08		0,11				0,27	0,35
1"	0,13			0,17		0,21				0,45	0,65
1 1/4"	0,21			0,28		0,39				0,70	0,85
1 1/2"	0,29			0,39		0,5				1,35	1,7
2"	0,49			0,68		1,0				2,35	3,0
2 1/2"	0,83			1,36		1,82				4,0	5,0
3"	1,22			2,18		2,86					
3 1/2"	1,63			3,05		4,1		8,0		9,0	9,5
4"	2,1			4,2		5,7		12,6		15,4	17,0
5"	3,63			6,8		10,0		23,0		27,0	28,0
6"	5,22			10,9		16,3		50,0		59,0	51,0
8"	10,0	17,0	20,0	21,8	27,0	33,1	38,2	95,0	50,8	110,0	
10"	17,5	27,0	34,0	38,6	52,0	60,0	71,8	145,0	97,4	185,0	
12"	27,0	39,0	50,0	61,0	86,0	100,0	120,3	190,0	156,8	250,0	
14"	48,0	61,0	73,0	84,0	113,0	140,0	171,2		223,0		
16"	64,0	79,0	100,0	127,0	160,0	210,0	246,9		334,8		
18"	82,0	100,0	150,0	175,0	240,0	290,0	350,6		461,8		
20"	100,0	150,0	200,0	235,0	320,0	395,0	478,7		638,3		
24"	145,0	220,0	320,0	385,0	550,0	670,0	825,2		1101,6		

To calculate approximate weight of 45° elbows divide by 2. To calculate approximate weight of 180° return bends multiply by 2.

Elbows SR 90°

NB	Approx. Weights in kg/pc. for 90° elbows 1)									
	Schedule 20	Schedule 30	Schedule 40	Schedule 60	Schedule 80	Schedule 100	Schedule 120	Schedule 140	Schedule 160	
1/2"										
3/4"										
1"			0,11							0,18
1 1/4"			0,18							0,29
1 1/2"			0,26							0,45
2"			0,50							0,93
2 1/2"			0,95							1,56
3"			1,45							2,68
3 1/2"			2,0							
4"			2,8				4,7			5,6
5"			4,8				8,4			10,3
6"			7,3				13,6			16,9
8"	11,07	12,25	14,5	17,8		25,5	30,0	33,8		37,3
10"	17,33	21,2	26,0	34,1	40,0	47,9	55,8	65,0		72,1
12"	24,8	32,7	40,0	54,9	66,2	80,2	93,9	101,6		119,9
14"	39,5	47,6	55,3	74,0	93,0	114,2		148,6		165,1
16"	52,2	62,6	82,6	107,0	136,0	164,6		223,2		244,8
18"	66,2	93,0	117,5	154,2	191,4	233,8		307,9		246,4
20"	97,5	129,7	153,3	207,3	260,6	319,1		425,5		478,5
24"	142,0	213,0	256,0	355,2	443,0	550,2		734,4		834,8

To calculate approximate weight of 45° elbows divide by 2. To calculate approximate weight of 180° return bends multiply by 2.

Straight Tees

NB	Approx. Weights in kg/pc.										XXS
	Schedule 10	Schedule 20	Schedule 30	Schedule 40	Schedule 60	Schedule 80	Schedule 100	Schedule 120	Schedule 140	Schedule 160	
1/2"				0,16		0,21					
3/4"	0,11			0,21		0,27				0,23	0,29
1"	0,27			0,34		0,43				0,45	0,58
1 1/4"	0,46			0,64		0,75				0,78	1,05
1 1/2"	0,65			0,95		1,13				1,22	1,56
2"	1,68			1,45		1,72				2,27	2,69
2 1/2"	2,16			2,45		2,95				3,44	4,54
3"	3,0			3,45		4,3				6,26	7,62
3 1/2"	4,0			4,5		5,9					9,62
4"	4,4			4,7		7,3		10,7		15,6	16,0
5"	7,4			9,1		11,8		20,2		24,0	24,6
6"	12,3			13,6		19,0		29,0		39,0	39,5
8"	20,0	24,5	25,9	25,0	34,5	35,0	43,6	52,0	54,0	69,0	69,5
10"	27,2	33,0	36,7	41,0	58,5	73,0	74,0	98,0	98,5	127,0	
12"	47,6	54,4	61,7	67,0	102,5	111,0	136,2	160,0	176,5	195,0	
14"	87,5	95,3	102,5	114,0	141,0	167,0	206,0		275,0		
16"	91,2	101,0	109,8	168,0	208,0	249,0	279,0		385,0		
18"	127,0	139,0	181,0	238,0	278,0	322,0	335,0		500,0		
20"	199,0	229,0	264,0	320,0	378,0	463,0	540,0		720,0		
24"	307,0	347,0	443,0	570,0	656,0	759,0	910,0		1180,0		

Concentric and Eccentric Reducers

NB	Approx. Weights in kg/pc.									
	Schedule 20	Schedule 30	Schedule 40	Schedule 60	Schedule 80	Schedule 100	Schedule 120	Schedule 140	Schedule 160	XXS
1/2"										
3/4"			0,07		0,10				0,15	0,19
1"			0,13		0,16				0,21	0,28
1 1/4"			0,17		0,23				0,29	0,39
1 1/2"			0,26		0,34				0,46	0,60
2"			0,41		0,57				0,84	1,03
2 1/2"			0,77		1,01				1,32	1,81
3"			1,0		1,36				1,89	2,46
3 1/2"			1,36		1,86					3,45
4"			1,63		2,27		2,9		3,41	4,17
5"			2,77		3,92		5,7		6,26	7,3
6"			3,95		5,94		7,6		9,43	11,1
8"	5,0	5,6	6,5	8,1	9,85		13,7		17,0	16,5
10"	7,4	9,0	10,7	14,5	17,0	21,7	23,6	39,3	30,6	
12"	9,9	13,2	16,2	22,1	26,8	34,4	38,0	44,3	48,5	
14"	22,3	26,8	31,1	41,7	52,2	66,3		86,2		
16"	27,6	33,1	43,8	56,7	72,1	87,5		118,6		
18"	33,3	46,8	59,4	78,5	96,6	118,0		155,6		
20"	59,4	79,0	93,0	126,0	158,0	193,8		320,0		
24"	71,7	107,0	129,0	180,0	224,0	278,0		520,0		

Caps

NB	Approx. Weights in kg/pc.									
	Schedule 20	Schedule 30	Schedule 40	Schedule 60	Schedule 80	Schedule 100	Schedule 120	Schedule 140	Schedule 160	XXS
1/2"			0,03		0,05					
3/4"			0,06		0,09					
1"			0,10		0,14				0,16	0,20
1 1/4"			0,14		0,18				0,22	0,30
1 1/2"			0,18		0,23				0,29	0,36
2"			0,27		0,32				0,51	0,60
2 1/2"			0,41		0,45				0,80	1,0
3"			0,64		0,82				1,43	1,79
3 1/2"			0,95		1,27					2,64
4"			1,13		1,54		2,32		2,74	3,2
5"			1,91		2,59		3,9		4,7	5,4
6"			2,95		4,1		6,0		7,4	8,5
8"	4,0	4,4	5,0	6,4	7,3	11,0	12,7	13,9	15,2	15,1
10"	6,2	7,6	9,1	12,0	16,6	21,0	22,4	29,3	28,4	
12"	9,0	11,8	14,4	22,4	26,9	32,5	36,8	46,1	45,4	
14"	13,4	16,0	18,4	27,7	34,7	50,0		67,3		
16"	17,0	20,3	26,2	38,0	47,7	64,0		89,2		
18"	21,7	30,3	41,7	55,0	67,6	75,0		93,0		
20"	32,2	42,6	55,0	73,5	91,2	122,5		153,0		
24"	46,3	66,7	93,0	128,0	155,0	185,7		250,0		



GELDBACH
BRASIL

av. fernando matos 270, barra da tijuca
rio de janeiro - RJ, CEP 22621-090
tel. 55 (21) 2123 6670 | fax. 55 (21) 2123 6601
www.cadgeldbach.com.br



Manfred Geldbach
Flanschen und Fitting

Gelsenkirchen / GERMANY