

2.2 ELBOWS

2.2.2 Elbows according to DIN 2605

Table 2.2.2_1: Available elbows
in stainless steel, copper, light alloy. The unit weights given are for 90° elbows.

Elbow diameter in mm		Bend radii in mm				Wall thicknesses in mm														
NW/int. Ø	ND/ext. Ø	2605 type 3	Others	ND+ 100	2× ND	2	2.5 (2.6)	3 (3.2)	4	5	6	7	8	10	12					
25	33.7	38	31.5			0.07 0.09	0.09 0.12	0.14								Weight: kg per 90°-bend				
32	38 42.4	45 48	45			0.12 0.13 0.15	0.15 0.16 0.19	0.19 0.19 0.22												
40	44.5 48.3	51 57	47.5			0.16 0.17 0.21	0.20 0.21 0.26	0.24 0.25 0.30												
50	57 60.3	72 76	72.5/70			0.30 0.31 0.35	0.37 0.39 0.43	0.45 0.46 0.51	0.67											
65	65 76.1	95	92/85 55			0.49 0.55	0.61 0.69	0.74 0.40 0.82	0.53 1.08	0.65 1.33	1.57									
80	88.9	114	120/105			0.68 0.78	0.85 0.97	1.03 1.16	1.39 1.52	1.88	2.23	2.56	2.90							
100 100	101.6 108 108 114.3 114.3	152	150/140 150 150		200 200 200	1.20 1.61 1.17 1.25 1.67 1.34 1.77	1.51 2.02 1.46 1.55 2.07 1.67 2.20	1.82 2.43 1.75 1.86 2.48 2.00 2.63	2.46 3.10 2.30 2.45 2.64	3.10 2.85 3.04 3.27	3.75 3.38 3.61 3.89	4.48	5.08	6.24						
125 125	133 133 133 139.7 139.7	181 190	187.5/170 110		250 250 250	1.87 2.50 1.87 2.58 2.06 2.71	2.35 3.13 2.32 3.21 2.56 3.37	2.83 3.77 2.78 3.84 1.69 3.07 4.03	3.80 3.67 2.23 4.06	4.79 4.55 2.77 5.01	5.78 5.42 6.00	6.93	7.87	9.69						
150 150	159 159 159 168.3 168.3	216 229	225 135		300 300 300	2.69 3.59 2.67 1.67 2.99 3.92	3.37 4.50 3.33 2.08 3.73 4.89	4.06 5.41 3.98 2.49 5.52 4.47 5.85	5.45 5.27 7.31 5.90	6.84 6.54 9.08 7.34	8.26 7.80 8.77	9.70 10.15	10.05 11.55	14.26	16.85					
175			265			3.69	4.63	5.57												

No guarantee for correctness

Table 2.2.2_1: Available elbows (continued)
in stainless steel, copper, light alloy. The unit weights given are for 90° elbows.

Elbow diameter in mm		Bend radii in mm				Wall thicknesses in mm													
NW/int. Ø	ND/ext. Ø	2605 type 3	Others	ND+ 100	2× ND	2	2.5 (2.6)	3 (3.2)	4	5	6	7	8	10	12				
200 200	216 216 219.1 219.1	305 305		300	400 400 400	4.77	5.97	7.19	9.63	12.09	14.54	17.04	Weight: kg per 90°-bend						
						6.36	7.97	9.58					19.57						
						5.14	6.40	7.67					19.90						
						6.74	8.39	10.05					20.22	25.09	29.75				
250	267 267 273 273	378 381		350 350 350		6.94	8.69	10.45	13.99	17.55	21.15	24.69	28.36	38.21	45.38				
						7.30	9.10	10.90					28.52						
						7.88	9.83	11.78					30.81			36.20	46.82		
						7.48	9.31	11.15					29.18			36.20	46.82		
300	318 318 323.9 323.9	455 457		400 400 400		9.50	11.90	14.30	19.13	23.99	28.88	33.71	38.68	55.12	65.52				
						9.94	12.41	14.87					39.02						
						11.31	14.12	16.91					44.38			49.38	58.88		
						10.12	12.64	15.14					39.76			49.38	58.88		
350	355.6 355.6 368 368	533 533		450 450 450		15.55	18.70	25.00	31.33	37.70	44.14	50.58	58.27	72.44	86.43				
						15.62	18.73	24.88					60.37						
						18.50	22.18	29.47					51.02			60.37	89.29		
						16.17	19.38	25.77					50.97			60.37	89.29		
400	406.4 406.4 419 419	610 610		500 500 500			23.71	31.78	39.82	47.90	55.90	64.04	76.46	95.10	113.26				
							29.03	38.62					66.92						
							23.80	31.65					47.24			78.67	98.13		
							29.94	39.82					49.66			69.00	98.13		
450	457.2			550 550			29.40	39.28	49.21	59.19	69.04	78.67							
							29.48	39.22					48.81			58.56	67.98		
500	508 521			600 600 600					47.50	59.58	71.65	83.55	95.90						
													47.50			59.28	71.08	82.56	
													48.80			60.89	72.92	84.71	96.85
600	609.6 622			700 700 700					66.51	83.28	100.11	116.70	133.92						
													66.75			83.24	99.71	115.84	
													68.07			84.93	101.76	118.23	

No guarantee for correctness

(larger elbows available in segmented construction)

2.2.3 Elbows according to DIN 2605 in Duplex Steel

Table 2.2.3_1: Available elbows in Duplex 1.4462
The unit weights given are for 90° elbows.

Elbow diameter in mm		Bend radii in mm				Wall thicknesses in mm									
NW/int. Ø	ND/ext. Ø	2605 type 3	Others	ND + 100	2 × ND	2	2.5 (2.6)	3 (3.2)	4	5	6	7	8	10	12
25	33.7	38	31.5			0.07 0.09	0.09 0.12	0.14					Weight: kg per 90°-bend		
32	38 42.4	45 48	45			0.12 0.13 0.15	0.15 0.16 0.19	0.19 0.19 0.22							
40	44.5 48.3	51 57	47.5			0.16 0.17 0.21	0.20 0.21 0.26	0.24 0.25 0.30							
50	57 60.3	72 76	72.5/70			0.30 0.31 0.35	0.37 0.39 0.43	0.45 0.46 0.51	0.67						
65	65 76.1	95	92/85 55			0.49 0.55	0.61 0.69	0.74 0.40 0.82	0.53 1.08	0.65 1.33	1.57				
80	88.9	114	105			0.68 0.78	0.85 0.97	1.03 1.16	1.39 1.52	1.88	2.23	2.56	2.90		
100 100	101.6 108 108 114.3 114.3	152	150/140 150 150		200 200 200	1.20 1.61 1.17 1.25 1.67 1.34 1.77	1.51 2.02 1.46 1.55 2.07 1.67 2.20	1.82 2.43 1.75 1.86 2.48 2.00 2.63	2.46 2.30 2.45 2.64	3.10 2.85 3.04 3.27	3.75 3.38 3.61 3.89	4.48	5.08		
125 125	133 133 133 139.7 139.7	181 190	187.5/170 110		250 250 250	1.87 2.50 1.87 2.58 2.06 2.71	2.35 3.13 2.32 3.21 2.56 3.37	2.83 3.77 2.78 3.84 1.69 3.07 4.03	3.80 3.67 2.23 4.06	4.79 4.55 2.77 5.01	5.78 5.42 6.00	6.93	7.87		
150 150	159 159 159 168.3 168.3	216 229	225 135		300 300 300	2.69 3.59 2.67 1.67 2.99 3.92	3.37 4.50 3.33 2.08 3.73 4.89	4.06 5.41 3.98 2.49 5.52 4.47 5.85	5.45 5.27 7.31 5.90	6.84 6.54 9.08 7.34	8.26 7.80	9.70 10.15	10.05 11.55	14.26	

No guarantee for correctness

Table 2.2.3_1: Available elbows in Duplex 1.4462 (continued)

The unit weights given are for 90° elbows.

Elbow diameter in mm		Bend radii in mm				Wall thicknesses in mm									
NW/int. Ø	ND/ext. Ø	2605 type 3	Others	ND+ 100	2× ND	2	2.5 (2.6)	3 (3.2)	4	5	6	7	8	10	12
175			265			3.69	4.63	5.57					Weight: kg per 90°-bend		
200 200				300		4.77	5.97	7.19	9.63	12.09	14.54	17.04	19.57		
					400	6.36	7.97	9.58							
	216	305			400	5.14	6.40	7.67	10.17	12.66	15.12	17.52	19.90		
	216 219.1 219.1	305			400	6.74 5.22 6.85	8.39 6.50 8.52	10.05 7.78 10.20	10.30	12.84	15.34	17.76	20.22	25.09	
250				350		6.94	8.69	10.45	13.99	17.55	21.15	24.69	28.36		
				350		7.30	9.10	10.90	14.48	18.03	21.56	25.00	28.52		
	267	378				7.88	9.83	11.78	15.64	19.48	23.28	27.00	30.81	38.21	
	273 273	381		350		7.48 8.14	9.31 10.13	11.15 12.14	14.79 16.10	18.42 20.05	22.05 24.01	25.58 27.84	29.18 31.77	36.20 39.41	
300				400		9.50	11.90	14.30	19.13	23.99	28.88	33.71	38.68		
				400		9.94	12.41	14.87	19.76	24.62	29.45	34.16	39.02		
	318	455				11.31	14.12	16.91	22.48	28.01	33.50	38.86	44.38	55.12	
	318 323.9 323.9	457		400		10.12 11.56	12.64 14.44	15.14 17.30	20.17 23.04	25.07 28.64	30.01 34.29	34.82 39.79	39.76 45.43	49.38 56.42	
350				450			15.55	18.70	25.00	31.33	37.70	44.14	50.58		
				450			15.62	18.73	24.88	30.96	37.31	44.14	50.58		
	355.6	533				18.50	22.18	29.47	36.67	44.00	51.02	58.27	72.44		
	355.6 368 368	533		450		16.17 19.16	19.38 22.96	25.77 30.52	32.12 38.04	38.44 45.53	44.61 52.83	50.97 60.37	59.97 75.04		
400				500				23.71	31.78	39.82	47.90	55.90	64.04		
				500				29.03	38.62	48.10	57.64	66.92	76.46	95.10	
	406.4	610						23.80	31.65	39.43	47.24	55.90	64.04		
	406.4 419 419	610		500				29.94 24.54	39.82 32.64	49.66 40.71	59.28 48.59	69.00 56.56	78.67 64.49	98.13	
450				550				29.40	39.28	49.21	59.19	69.04			
	457.2			550				29.48	39.22	48.81	58.56	67.98			
500				600					47.50	59.58	71.65	83.55	95.90		
				600					47.50	59.28	71.08	82.56	94.39		
	508			600					48.80	60.89	72.92	84.71	96.85		
600				700					66.51	83.28	100.11	116.70	133.92		
				700					66.75	83.24	99.71	115.84	133.05		
	609.6			700					68.07	84.93	101.76	118.23	135.24		

No guarantee for correctness

(larger elbows available in segmented construction)