



BUTTING

Reducers: concentric and eccentric

Table 1.6.3_1: Reducers in stainless steel, concentric and eccentric

Inside diameter (mm) D_i/d_i	Outside diameter (mm)		Length L (mm)		Shape		Individual weights (kg) for each wall thickness (mm)									
	D_a	d_a	formerly DIN 2616	Other	Conc.	Ecc.	1.5	2	2.6*	3	4	5	6	8	10	
	33.7	21.3	50		B / 1	A / 2		0.06	0.08	0.09	0.12					
		26.9	50		A / 1	A / 2		0.07	0.09	0.10	0.13					
32/25				25	A / 2	A / 2	0.03	0.04								
				75	A / 2	A / 2	0.09	0.11								
	42.4	21.3	50		A / 2	A / 2		0.08	0.10	0.11	0.14					
		26.9	50		A / 1	A / 2		0.08	0.11	0.12	0.15					
		33.7	50		A / 1	A / 2		0.09	0.12	0.13	0.17					
40/25 /32				45	A / 2	A / 2	0.06	0.08								
				25	A / 2	A / 2	0.04	0.05								
				75	A / 2	A / 2	0.11	0.14								
	48.3	26.9	64		A / 2	A / 2		0.11	0.15	0.17	0.21					
		33.7	64		B / 1	A / 2		0.12	0.16	0.18	0.23					
		42.4	64		A / 1	A / 2		0.14	0.18	0.20	0.26					
50/25 /32 /40				75	A / 2	A / 2	0.11	0.15	0.19	0.23						
				54	A / 2	A / 2	0.09	0.12	0.15	0.18						
				75	A / 2	A / 2	0.12	0.16	0.21	0.25						
				30	A / 2	A / 2	0.05	0.07	0.09	0.11						
	60.3	26.9	76		A / 2	A / 2		0.16	0.21	0.23	0.30					
		33.7	76		A / 2	A / 2		0.17	0.22	0.25	0.33					
		42.4	76		A / 1	A / 2		0.19	0.24	0.28	0.36					
		48.3	76		B / 1	A / 2		0.20	0.26	0.29	0.38					
65/32 /40 /50				100	A / 2	A / 2	0.19	0.26	0.33	0.39						
				75	A / 2	A / 2	0.16	0.21	0.26	0.32						
				45	A / 2	A / 2	0.10	0.14	0.17	0.21						
				80	A / 2	A / 2	0.18	0.24	0.30	0.36						
	76.1	33.7	90		A / 2	A / 2		0.24	0.32	0.36	0.47					
		42.4	90		A / 2	A / 2		0.26	0.34	0.38	0.50					
		48.3	90		B / 1	A / 2		0.27	0.35	0.40	0.53					
		60.3	90		B / 1	B / 1		0.30	0.39	0.44	0.58					
80/40 /50 /65				120	A / 2	A / 2	0.28	0.38	0.48	0.57						
				90	A / 2	A / 2	0.23	0.31	0.39	0.46						
				100	A / 2	A / 2	0.25	0.34	0.43	0.51						
				45	A / 2	A / 2	0.13	0.17	0.22	0.26						
	88.9	42.4	90		A / 2	A / 2		0.29	0.38	0.43	0.56					
		48.3	90		A / 2	A / 2		0.30	0.39	0.45	0.59	0.72				
		60.3	90		A / 2	A / 2		0.33	0.43	0.48	0.64	0.78				
		76.1	90		B / 1	B / 1		0.36	0.47	0.53	0.70	0.87				
100/50 /65 /80				150	A / 2	A / 2	0.44	0.58	0.74	0.89	1.20					
				100	A / 2	A / 2	0.32	0.43	0.54	0.65	0.88					
				60	A / 2	A / 2	0.21	0.28	0.35	0.42	0.57					
				100	A / 2	A / 2	0.35	0.46	0.58	0.70	0.94					
	114.3	48.3	100		A / 2	A / 2		0.41	0.54	0.61	0.81					
		60.3	100		A / 2	A / 2		0.44	0.57	0.65	0.86					
		76.1	100		B / 1	A / 2		0.47	0.61	0.70	0.92					
		88.9	100		B / 1	A / 2		0.50	0.65	0.74	0.98					

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Table 1.6.3_1: Reducers in stainless steel, concentric and eccentric (continuation)

Inside diameter (mm) D_i / d_i	Outside diameter (mm)		Length L (mm)		Shape		Individual weights (kg) for each wall thickness (mm)								
	D_a	d_a	formerly DIN 2616	Other	Conc.	Ecc.	1.5	2	2.6*	3	4	5	6	8	10
125 / 65 / 80 / 100				180	A / 2	A / 2	0.66	0.88	1.12	1.34	1.80				
				60	A / 2	A / 2	0.25	0.33	0.42	0.51	0.68				
				150	A / 2	A / 2	0.59	0.79	1.00	1.20	1.61				
				75	A / 2	A / 2	0.33	0.44	0.55	0.66	0.89				
				150	A / 2	A / 2	0.65	0.86	1.09	1.30	1.75				
	139.7	60.3	127		A / 2	A / 2		0.65	0.84	0.96	1.27	1.57	1.86		
		88.9	127		A / 2	A / 2		0.72	0.94	1.07	1.42	1.75	2.08		
		114.3	127		B / 1	B / 1		0.79	1.03	1.18	1.56	1.94	2.31		
150 / 80 / 100 / 125				210	A / 2	A / 2	0.93	1.24	1.57	1.88	2.53	3.19	3.86		
				150	A / 2	A / 2	0.72	0.96	1.21	1.46	1.96	2.47	2.98		
				75	A / 2	A / 2	0.40	0.53	0.67	0.80	1.07	1.35	1.63		
				150	A / 2	A / 2	0.79	1.05	1.32	1.58	2.13	2.68	3.24		
	168.3	76.1	140		A / 2	A / 2		0.88	1.15	1.31	1.73	2.15	2.56		
		88.9	140		A / 2	A / 2		0.92	1.19	1.36	1.80	2.23	2.66		
		114.3	140		B / 1	A / 2		0.99	1.29	1.47	1.95	2.42	2.88		
		139.7	140		B / 1	B / 1		1.06	1.38	1.59	2.10	2.61	3.11		
200 / 100 / 125 / 150				300	A / 2	A / 2		2.31	2.90	3.49	4.68	5.89	7.11		
				225	A / 2	A / 2		1.87	2.36	2.83	3.79	4.77	5.76		
				150	A / 2	A / 2		1.34	1.69	2.03	2.72	3.42	4.12		
	219.1	88.9	152		A / 2	A / 2		1.25	1.63	1.86	2.47	3.06	3.65	4.79	
		114.3	152		A / 2	A / 2		1.32	1.72	1.97	2.61	3.24	3.86	5.08	
		139.7	152		A / 2	A / 2		1.39	1.81	2.07	2.74	3.41	4.07	5.36	
		168.3	152		B / 1	B / 1		1.47	1.92	2.20	2.92	3.63	4.33	5.71	
250 / 125 / 150 / 200				375	A / 2	A / 2		3.60	4.52	5.42	7.27	9.14	11.02		
				300	A / 2	A / 2		3.07	3.86	4.62	6.20	7.78	9.38		
				150	A / 2	A / 2		1.72	2.17	2.60	3.48	4.36	5.26		
	273.0	114.3	178		A / 2	A / 2			2.42	2.78	3.68	4.58	5.46	7.20	
		139.7	178		A / 2	A / 2		1.94	2.52	2.89	3.83	4.77	5.69	7.51	
		168.3	178		A / 2	A / 2			2.63	3.02	4.01	4.99	5.96	7.87	
		219.1	178		B / 1	A / 2				3.28	4.35	5.42	6.48	8.56	
300 / 150 / 200 / 250				450	A / 2	A / 2		5.17	6.50	7.79	10.43	13.10	15.79		
				300	A / 2	A / 2		3.83	4.81	5.76	7.72	9.68	11.66		
				150	A / 2	A / 2		2.10	2.64	3.17	4.24	5.32	6.40		
				225	A / 2	A / 2		3.38	3.93	4.72	6.31	7.92	9.53		
	323.9	139.7	203		A / 2	A / 2					3.80	5.05	6.28	7.50	9.90
		168.3	203		A / 2	A / 2					3.95	5.24	6.52	7.78	10.29
		219.1	203		A / 2	A / 2					4.21	5.59	6.96	8.32	11.00
		273.0	203		A / 2	A / 2					4.52	6.01	7.48	8.95	11.85
350 / 200 / 250 / 300				450	A / 2	A / 2					9.50	12.71	15.95	19.20	
				300	A / 2	A / 2					6.90	9.24	11.58	13.95	
				150	A / 2	A / 2					3.74	5.00	6.27	7.54	
	355.6	168.3	330		A / 2	A / 2					6.64	8.82	10.98	13.12	17.35
		219.1	330		A / 2	A / 2					7.17	9.52	11.86	14.18	18.78
		273.0	330		A / 2	A / 2					7.75	10.30	12.83	15.35	20.33
	323.9	330		A / 2	A / 2					8.32	11.06	13.78	16.49	21.84	

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Table 1.6.3_1: Reducers in stainless steel, concentric and eccentric (continuation)

Inside diameter (mm) D _i / d _i	Outside diameter (mm)		Length L (mm)		Shape		Individual weights (kg) for each wall thickness (mm)									
	D _a	d _a	formerly DIN 2616	Other	Conc.	Ecc.	1.5	2	2.6*	3	4	5	6	8	10	
400 / 200 / 250 / 300 / 350				600	A / 2	A / 2				13.81	18.47	23.16	27.89			
				450	A / 2	A / 2				11.21	15.00	18.80	22.63			
				300	A / 2	A / 2				8.04	10.76	13.48	16.22			
				150	A / 2	A / 2				4.31	5.76	7.22	8.68			
	406.4	168.3	355		A / 2	A / 2				7.96	10.58	13.17	15.75	20.84		
		219.1	355		A / 2	A / 2				8.51	11.31	14.09	16.85	22.32		
		273.0	355		A / 2	A / 2				9.10	12.10	15.08	18.05	23.91		
		323.9	355		A / 2	A / 2				9.68	12.87	16.05	19.20	25.45		
		355.6	355		A / 2	A / 2				10.07	13.39	16.69	19.97	26.49	32.93	
	450 / 250 / 300 / 350 / 400				600	A / 2	A / 2				16.09	21.51	26.96	32.44		
					450	A / 2	A / 2				12.92	17.27	21.64	26.44		
					300	A / 2	A / 2				9.18	12.27	15.38	18.50		
				150	A / 2	A / 2				4.87	6.51	8.16	9.82			
	457.0	219.1	381		A / 2	A / 2				10.02	13.31	16.59	19.84	26.29		
		273.0	381		A / 2	A / 2				10.63	14.13	17.61	21.07	27.94		
		323.9	381		A / 2	A / 2				11.21	14.91	18.60	22.25	29.52		
		355.6	381		A / 2	A / 2				11.60	15.44	19.25	23.04	30.56	38.01	
		406.4	381		A / 2	A / 2				12.26	16.31	20.34	24.35	32.31	40.20	
500 / 300 / 350 / 400 / 450				600	A / 2	A / 2				18.37	24.55	30.76	37.00			
				450	A / 2	A / 2				14.63	19.55	24.49	29.46			
				300	A / 2	A / 2				10.32	13.79	17.28	20.78			
				150	A / 2	A / 2				5.45	7.28	9.12	10.96			
	508.0	219.1	508		A / 2	A / 2				14.26	18.96	23.63	28.28	37.49		
		273.0	508		A / 2	A / 2				15.14	20.13	25.10	30.03	39.83		
		323.9	508		A / 2	A / 2				15.96	21.22	26.47	31.68	42.03		
		355.6	508		A / 2	A / 2				16.49	21.94	27.36	32.75	43.46	54.07	
		406.4	508		A / 2	A / 2				17.37	23.10	28.81	34.51	45.79	57.00	
		457.0	508		A / 2	A / 2				18.27	24.31	30.33	36.32	48.23	60.02	
600 / 400 / 450 / 500				600	A / 2	A / 2				30.62	38.35	46.11				
				450	A / 2	A / 2				24.11	30.19	36.29				
				300	A / 2	A / 2				16.83	21.07	25.33				
	610.0	273.0	508		A / 2	A / 2				17.58	23.38	29.16	34.90	46.31		
		323.9	508		A / 2	A / 2				18.33	24.38	30.41	36.41	48.33		
		355.6	508		A / 2	A / 2				18.82	25.03	31.22	37.38	49.63	61.77	
		406.4	508		A / 2	A / 2				19.60	26.09	32.54	38.97	51.74	64.42	
		457.0	508		A / 2	A / 2				20.42	27.17	33.90	40.60	53.93	67.15	
		508.0	508		A / 2	A / 2				21.27	28.31	35.32	42.30	56.21	69.99	
	711.0	323.9	610		A / 2	A / 2				24.65	32.79	40.91	48.99	65.05		
		355.6	610		A / 2	A / 2				25.23	33.57	41.88	50.16	66.61	82.94	
		406.4	610		A / 2	A / 2				26.17	34.83	43.45	52.04	69.13	86.08	
		457.0	610		A / 2	A / 2				27.12	36.10	45.05	53.96	71.69	89.29	
		508.0	610		A / 2	A / 2				28.10	37.40	46.67	55.92	74.31	92.57	
		610.0	610		A / 2	A / 2				30.15	40.14	50.10	60.03	79.80	99.43	
	813.0	355.6	610		A / 2	A / 2				28.36	37.74	47.08	56.40	74.93		
		406.4	610		A / 2	A / 2				29.21	38.89	48.52	58.13	77.23	96.19	
		457.0	610		A / 2	A / 2				30.08	40.04	49.98	59.87	79.56	99.13	
		508.0	610		A / 2	A / 2				30.97	41.23	51.45	61.66	81.95	102.11	
		610.0	610		A / 2	A / 2				32.83	43.70	54.55	65.37	86.91	108.33	
		711.0	610		A / 2	A / 2				34.81	46.35	57.86	69.34	92.21	114.96	

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Inside diameter (mm) D_i / d_i	Outside diameter (mm)		Length L (mm)		Shape		Individual weights (kg) for each wall thickness (mm)								
	D_a	d_a	formerly DIN 2616	Other	Conc.	Ecc.	1.5	2	2.6*	3	4	5	6	8	10
	914	406.4	610		A / 2	A / 2					43.29	54.02	64.71	86.00	107.15
		457.0	610		A / 2	A / 2					44.33	55.33	66.29	88.11	109.79
		508.0	610		A / 2	A / 2					45.40	56.66	67.89	90.25	112.47
		610.0	610		A / 2	A / 2					47.60	59.41	71.20	94.69	118.03
		711.0	610		A / 2	A / 2					49.95	62.35	74.72	99.39	123.29
		813.0	610		A / 2	A / 2					52.56	65.62	78.65	104.62	130.47
	1 016	457.0	610		A / 2	A / 2					49.08	61.26	73.40	97.57	121.59
		508.0	610		A / 2	A / 2					50.01	62.43	74.81	99.46	123.97
		610.0	610		A / 2	A / 2					51.95	64.85	77.72	103.35	128.86
		711.0	610		A / 2	A / 2					53.98	67.40	80.78	107.45	133.99
		813.0	610		A / 2	A / 2					56.25	70.22	84.18	111.99	139.68
		914.0	610		A / 2	A / 2					58.77	73.39	87.96	117.04	146.02
	1 220	610.0	711		A / 2	A / 2					70.39	87.88	105.33	140.10	174.72
		711.0	711		A / 2	A / 2					72.52	90.56	108.54	144.41	180.10
		813.0	711		A / 2	A / 2					74.80	93.40	111.96	148.97	185.85
		914.0	711		A / 2	A / 2					77.23	96.43	115.62	153.87	191.96
		1,016.0	711		A / 2	A / 2					79.94	99.83	119.69	159.27	198.76

Dimensions / tolerances acc. to former DIN 2616, longitudinally welded, ends not cut square but sawn, pickled

1: pressed from pipe

A: without cylindrically shapes ends

2: bent round from plate

B: with cylindrically shapes ends

* Paper dimension with 2.5 mm wall thickness

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