

2.4.2 Reducers: concentric and eccentric

Table 2.4.2_1: Reducing elements, concentric and eccentric, in stainless steel

Inside Ø (mm) D _i /d _i	Outside Ø (mm)		Length L (mm)		Shape		Individual weights in kg by wall thickness (mm)								
	D _a	d _a	DIN 2616	others	conc.	ecc.	1.5	2	2.6*	3	4	5	6	8	10
32/25	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				
				25	A/2	A/2	0.03	0.04							
40/25	42.4	21.3	50		A/1	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				
/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							
50/25	48.3	26.9	64		A/1	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				
/32				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					
/40				30	A/2	A/2	0.05	0.07	0.09	0.11					
				75	A/2	A/2	0.13	0.18	0.23	0.27					
65/32	60.3	26.9	76		A/1	A/2		0.16	0.21	0.23	0.30				
		33.7	76		B/1	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				
/40				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					
/50				80	A/2	A/2	0.18	0.24	0.30	0.36					
80/40	76.1	33.7	90		A/2	A/2		0.24	0.32	0.36	0.47				
		42.4	90		A/1	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				
/50				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					
/65				45	A/2	A/2	0.13	0.17	0.22	0.26					
				100	A/2	A/2	0.28	0.37	0.47	0.57					
100/50	88.9	42.4	90		A/2	A/2		0.29	0.38	0.43	0.56				
		48.3	90		B/1	A/2		0.30	0.39	0.45	0.59	0.72			
		60.3	90		B/1	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			
/65				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				
/80				100	A/2	A/2	0.35	0.46	0.58	0.70	0.94				
125/65	114.3	48.3	100		A/2	A/2		0.41	0.54	0.61	0.81				
		60.3	100		B/1	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	B/1		0.50	0.65	0.74	0.98				
/80				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				
/100				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				

No guarantee for correctness

Dimensions/tolerances

1: pressed from pipe

Other sizes/materials available on request.

continued →

2: bent round from plate

Per DIN 2616, longitudinally welded

A: without cylindrically shaped ends

Not cut square, sawn ends, pickled

B: with cylindrically shaped ends

*paper dimension 2.5 mm wall thickness

2.4 REDUCERS

Variety
of Products

Table 2.4.2_1: Reducing elements, concentric and eccentric, in stainless steel (continued)

Inside Ø (mm) D _i /d _i	Outside Ø (mm)		Length L (mm)		Shape		Individual weights in kg by wall thickness (mm)								
	D _a	d _a	DIN 2616	others	conc.	ecc.	1.5	2	2.6*	3	4	5	6	8	10
	139.7	60.3	127		A/2	A/2		0.65	0.84	0.96	1.27	1.57	1.86		
		88.9	127		B/1	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				210	A/2	A/2	0.93	1.24	1.57	1.88	2.53	3.19	3.86		
/100				150	A/2	A/2	0.72	0.96	1.21	1.46	1.96	2.47	2.98		
/125				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/1	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				300	A/2	A/2		2.31	2.90	3.49	4.68	5.89	7.11		
/125				225	A/2	A/2		1.87	2.36	2.83	3.79	4.77	5.76		
/150				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				375	A/2	A/2		3.60	4.52	5.42	7.27	9.14	11.02		
/150				300	A/2	A/2		3.07	3.86	4.62	6.20	7.78	9.38		
/200				150	A/2	A/2		1.72	2.17	2.60	3.48	4.36	5.26		
	273	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				450	A/2	A/2		5.17	6.50	7.79	10.43	13.10	15.79		
/200				300	A/2	A/2		3.83	4.81	5.76	7.72	9.68	11.66		
/250				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	203		A/2	A/2				4.52	6.01	7.48	8.95	11.85	
350/200				450	A/2	A/2				9.50	12.71	15.95	19.20		
/250				300	A/2	A/2				6.90	9.24	11.58	13.95		
/300				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	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	
400/200				600	A/2	A/2				13.81	18.47	23.16	27.89		
/250				450	A/2	A/2				11.21	15.00	18.80	22.63		
/300				300	A/2	A/2				8.04	10.76	13.48	16.22		
/350				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	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				600	A/2	A/2				16.09	21.51	26.96	32.44		
/300				450	A/2	A/2				12.92	17.27	21.64	26.04		
/350				300	A/2	A/2				9.18	12.27	15.38	18.50		
/400				150	A/2	A/2				4.87	6.51	8.16	9.82		

Dimensions/tolerances

1: pressed from pipe

Other sizes/materials available on request.

2: bent round from plate

Per DIN 2616, longitudinally welded

A: without cylindrically shaped ends

Not cut square, sawn ends, pickled

B: with cylindrically shaped ends

*paper dimension 2.5 mm wall thickness

No guarantee for correctness

Table 2.4.2_1: Reducing elements, concentric and eccentric, in stainless steel (continued)

Inside Ø (mm) D _i /d _i	Outside Ø (mm)		Length L (mm)		Shape		Individual weights in kg by wall thickness (mm)								
	D _a	d _a	DIN 2616	others	conc.	ecc.	1.5	2	2.6*	3	4	5	6	8	10
	457	219.1	381		A/2	A/2				10.02	13.31	16.59	19.84	26.29	
		273	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				600	A/2	A/2				18.37	24.55	30.76	37.00		
/350				450	A/2	A/2				14.63	19.55	24.49	29.46		
/400				300	A/2	A/2				10.32	13.79	17.28	20.78		
/450				150	A/2	A/2				5.45	7.28	9.12	10.96		
	508	219.1	508		A/2	A/2				14.26	18.96	23.63	28.28	37.49	
		273	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
600/400				600	A/2	A/2				30.62	38.35	46.11			
/450				450	A/2	A/2				24.11	30.19	36.29			
/500				300	A/2	A/2				16.83	21.07	25.33			
	610	273	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	508		A/2	A/2				20.42	27.17	33.90	40.60	53.93	67.15
	508	508		A/2	A/2				21.27	28.31	35.32	42.30	56.21	69.99	
	711	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	610		A/2	A/2				27.12	36.10	45.05	53.96	71.69	89.29
		508	610		A/2	A/2				28.10	37.40	46.67	55.92	74.31	92.57
	610	610		A/2	A/2				30.15	40.14	50.10	60.03	79.80	99.43	
	813	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	610		A/2	A/2				30.08	40.04	49.98	59.87	79.56	99.13
		508	610		A/2	A/2				30.97	41.23	51.45	61.66	81.95	102.11
		610	610		A/2	A/2				32.83	43.70	54.55	65.37	86.91	108.33
	711	610		A/2	A/2				34.81	46.35	57.86	69.34	92.21	114.96	
	914	406.4	610		A/2	A/2				43.29	54.02	64.71	86.00	107.15	
		457	610		A/2	A/2				44.33	55.33	66.29	88.11	109.79	
		508	610		A/2	A/2				45.40	56.66	67.89	90.25	112.47	
		610	610		A/2	A/2				47.60	59.41	71.20	94.69	118.03	
		711	610		A/2	A/2				49.95	62.35	74.72	99.39	123.29	
	813	610		A/2	A/2				52.56	65.62	78.65	104.62	130.47		
	1016	457	610		A/2	A/2				49.08	61.26	73.40	97.57	121.59	
		508	610		A/2	A/2				50.01	62.43	74.81	99.46	123.97	
		610	610		A/2	A/2				51.95	64.85	77.72	103.35	128.86	
		711	610		A/2	A/2				53.98	67.40	80.78	107.45	133.99	
		813	610		A/2	A/2				56.25	70.22	84.18	111.99	139.68	
	914	610		A/2	A/2				58.77	73.39	87.96	117.04	146.02		
	1220	610	711		A/2	A/2				70.39	87.88	105.33	140.10	174.72	
		711	711		A/2	A/2				72.52	90.56	108.54	144.41	180.10	
		813	711		A/2	A/2				74.80	93.40	111.96	148.97	185.85	
		914	711		A/2	A/2				77.23	96.43	115.62	153.87	191.96	
		1,016	711		A/2	A/2				79.94	99.83	119.69	159.27	198.76	

No guarantee for correctness

Dimensions / tolerances 1: pressed from pipe Other sizes/materials available on request.
 2: bent round from plate
 Per DIN 2616, longitudinally welded A: without cylindrically shaped ends
 Not cut square, sawn ends, pickled B: with cylindrically shaped ends *paper dimension 2.5 mm wall thickness