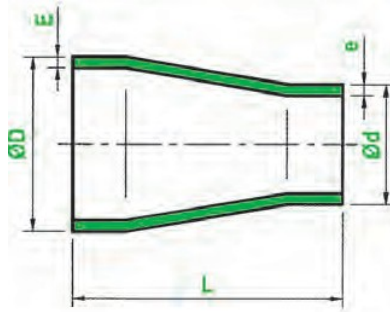


Concentric Reducers

10 Bar 14 Bar



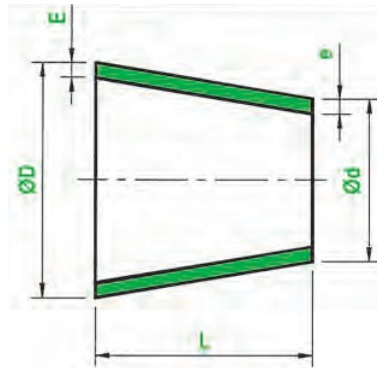
Material : CuNi 90/10 | CuNi 70/30

Outside Diameter of Pipe						DIN 86089							
ØD x Ød			ØD x Ød			10 Bar				14 Bar			
Nominal (Inch)			Actual (mm)			E (mm)	e (mm)	L (mm)	kg /pc	E (mm)	e (mm)	L (mm)	kg /pc
SEAMLESS													
3/4	x	1/2	25	x	20	1.5	1.0	30	0.03	1.5	1.5	30	0.038
1	x	1/2	30	x	20	1.5	1.0	35	0.04	2.0	1.5	35	0.046
1	x	3/4	30	x	25	1.5	1.5	35	0.05	2.0	1.5	35	0.056
1¼	x	1/2	38	x	20	1.5	1.0	50	0.06	2.0	1.5	50	0.067
1¼	x	3/4	38	x	25	1.5	1.5	50	0.07	2.0	1.5	50	0.077
1¼	x	1	38	x	30	1.5	1.5	50	0.08	2.0	2.0	50	0.086
1½	x	1/2	44.5	x	20	1.5	1.0	80	0.09	2.0	1.5	80	0.098
1½	x	3/4	44.5	x	25	1.5	1.5	80	0.11	2.0	1.5	80	0.117
1½	x	1	44.5	x	30	1.5	1.5	80	0.12	2.0	2.0	80	0.126
1½	x	1¼	44.5	x	38	1.5	1.5	80	0.13	2.0	2.0	80	0.135
2	x	3/4	57	x	25	1.5	1.5	80	0.13	2.0	1.5	80	0.137
2	x	1	57	x	30	1.5	1.5	80	0.14	2.0	2.0	80	0.145
2	x	1¼	57	x	38	1.5	1.5	80	0.15	2.0	2.0	80	0.156
2	x	1½	57	x	44.5	1.5	1.5	80	0.16	2.0	2.0	80	0.168
2½	x	1	76.1	x	30	2.0	1.5	90	0.24	2.0	2.0	90	0.245
2½	x	1¼	76.1	x	38	2.0	1.5	90	0.25	2.0	2.0	90	0.255
2½	x	1½	76.1	x	44.5	2.0	1.5	90	0.26	2.0	2.0	90	0.269
2½	x	2	76.1	x	57	2.0	1.5	90	0.29	2.0	2.0	90	0.298
3	x	1¼	88.9	x	38	2.0	1.5	90	0.29	2.5	1.5	90	0.33
3	x	1½	88.9	x	44.5	2.0	1.5	90	0.30	2.5	1.5	90	0.35
3	x	2	88.9	x	57	2.0	1.5	90	0.32	2.5	1.5	90	0.38
3	x	2½	88.9	x	76.1	2.0	2.0	90	0.40	2.5	2.0	90	0.48
4	x	1½	108	x	44.5	2.5	1.5	100	0.46	2.5	2.0	100	0.468
4	x	2	108	x	57	2.5	1.5	100	0.48	2.5	2.0	100	0.521
4	x	2½	108	x	76.1	2.5	2.0	100	0.57	2.5	2.0	100	0.594
4	x	3	108	x	88.9	2.5	2.0	100	0.61	2.5	2.5	100	0.61
5	x	2	133	x	57	2.5	1.5	140	0.80	3.0	1.5	140	0.86
5	x	2½	133	x	76.1	2.5	2.0	140	0.93	3.0	2.0	140	1.06
5	x	3	133	x	88.9	2.5	2.0	140	0.98	3.0	2.5	140	1.13
5	x	4	133	x	108	2.5	2.5	140	1.16	3.0	2.5	140	1.34
6	x	2½	159	x	76.1	2.5	2.0	150	1.13	3.0	2.0	150	1.35
6	x	3	159	x	88.9	2.5	2.0	150	1.19	3.0	2.5	150	1.42
6	x	4	159	x	108	2.5	2.5	150	1.38	3.0	2.5	150	1.65
6	x	5	159	x	133	2.5	2.5	150	1.51	3.0	3.0	150	1.81
7	x	3	193.7	x	88.9	2.5	2.0	155	1.39	3.5	2.5	155	1.94
7	x	4	193.7	x	108	2.5	2.5	155	1.58	3.5	2.5	155	2.21
7	x	5	193.7	x	133	2.5	2.5	155	1.71	3.5	3.0	155	2.39
7	x	6	193.7	x	159	2.5	2.5	155	1.86	3.5	3.0	155	2.60

Concentric Reducers

10 Bar

14 Bar



SEAM WELDED

Material : CuNi 90/10 | CuNi 70/30

Outside Diameter of Pipe						DIN 86089							
ØD x Ød			ØD x Ød			10 Bar				14 Bar			
Nominal (Inch)			Actual (mm)			E (mm)	e (mm)	L (mm)	kg /pc	E (mm)	e (mm)	L (mm)	kg /pc
8	x	4	219.1	x	108	3.0	2.5	155	2.47	3.5	2.5	155	2.88
8	x	5	219.1	x	133	3.0	2.5	155	2.60	3.5	3.0	155	3.03
8	x	6	219.1	x	159	3.0	2.5	155	2.74	3.5	3.0	155	3.20
8	x	7	219.1	x	193.7	3.0	2.5	155	2.93	3.5	3.5	155	3.42
10	x	5	267	x	133	3.0	2.5	210	3.30	4.0	3.0	210	4.40
10	x	6	267	x	159	3.0	2.5	210	3.49	4.0	3.0	210	4.65
10	x	7	267	x	193.7	3.0	2.5	210	3.75	4.0	3.5	210	5.00
10	x	8	267	x	219.1	3.0	3.0	210	4.25	4.0	3.5	210	5.65
SEAM WELDED													
12	x	5	323.9	x	133	4.0	2.5	210	5.30	5.0	3.0	210	6.62
12	x	6	323.9	x	159	4.0	2.5	210	5.60	5.0	3.0	210	7.00
12	x	7	323.9	x	193.7	4.0	2.5	210	6.02	5.0	3.5	210	7.52
12	x	8	323.9	x	219.1	4.0	3.0	210	6.30	5.0	3.5	210	7.90
12	x	10	323.9	x	267	4.0	3.0	210	6.88	5.0	4.0	210	8.60
14	x	6	368	x	159	4.0	2.5	300	8.75	5.5	3.0	300	12.03
14	x	7	368	x	193.7	4.0	2.5	300	9.34	5.5	3.0	300	12.84
14	x	8	368	x	219.1	4.0	3.0	300	9.76	5.5	3.5	300	13.42
14	x	10	368	x	267	4.0	3.0	300	10.57	5.5	4.0	300	14.53
14	x	12	368	x	323.9	4.0	4.0	300	11.53	5.5	5.0	300	15.85
16	x	7	419.1	x	193.7	4.0	2.5	325	11.04	6.0	3.5	325	16.56
16	x	8	419.1	x	219.1	4.0	3.0	325	11.50	6.0	3.5	325	17.25
16	x	10	419.1	x	267	4.0	3.0	300	12.38	6.0	4.0	325	18.57
16	x	12	419.1	x	323.9	4.0	4.0	300	13.42	6.0	5.0	325	20.13
16	x	14	419.1	x	368	4.0	4.0	300	14.22	6.0	5.5	325	21.33
18	x	8	457.2	x	219.1	4.0	3.0	350	13.14	6.0	3.5	350	19.70
18	x	10	457.2	x	267	4.0	3.0	350	14.08	6.0	4.0	350	21.10
18	x	12	457.2	x	323.9	4.0	4.0	350	15.20	6.0	5.0	350	22.80
18	x	14	457.2	x	368	4.0	4.0	350	16.06	6.0	5.5	350	24.10
18	x	16	457.2	x	419.1	4.0	4.0	350	17.07	6.0	6.0	350	25.80
20	x	10	508	x	267	4.5	3.0	375	18.07	6.5	4.0	375	26.10
20	x	12	508	x	323.9	4.5	4.0	375	19.42	6.5	5.0	375	28.05
20	x	14	508	x	368	4.5	4.0	375	20.47	6.5	5.5	375	29.60
20	x	16	508	x	419.1	4.5	4.0	375	21.68	6.5	6.0	375	31.30
20	x	18	508	x	457.2	4.5	4.0	375	22.57	6.5	6.0	375	32.60
24	x	14	610	x	368	5.0	4.0	400	27.19	8.0	5.5	400	43.50
24	x	16	610	x	419.1	5.0	4.0	400	28.62	8.0	6.0	400	45.80
24	x	18	610	x	457.2	5.0	4.0	400	29.69	8.0	6.0	400	47.50
24	x	20	610	x	508	5.0	4.5	400	31.12	8.0	6.5	400	49.80



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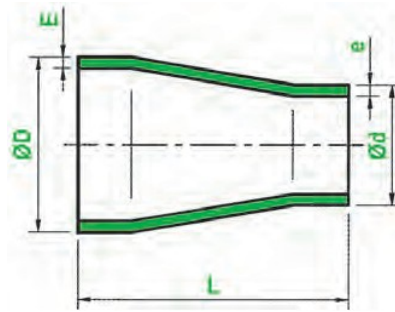
Tel: +65 6863 3378 Fax: +65 6863 3398 Email: enquiry@athical.com Website: www.athical.com



Concentric Reducers

16 Bar

20 Bar



Material : CuNi 90/10 | CuNi 70/30

Outside Diameter of Pipe						EEMUA 146							
ØD x Ød			ØD x Ød			16 Bar				20 Bar			
Nominal (Inch)			Actual (mm)			E (mm)	e (mm)	L (mm)	kg /pc	E (mm)	e (mm)	L (mm)	kg /pc
SEAMLESS													
1	x	3/4	30	x	25	2.5	2.0	51	0.09	2.5	2.0	51	0.09
1¼	x	3/4	38	x	25	2.5	2.0	51	0.10	2.5	2.0	51	0.10
1¼	x	1	38	x	30	2.5	2.5	51	0.11	2.5	2.5	51	0.11
1½	x	3/4	44.5	x	25	2.5	2.0	64	0.14	2.5	2.0	64	0.14
1½	x	1	44.5	x	30	2.5	2.5	64	0.15	2.5	2.5	64	0.15
1½	x	3/4	44.5	x	38	2.5	2.5	64	0.17	2.5	2.5	64	0.17
2	x	1	57	x	30	2.5	2.5	76	0.21	2.5	2.5	76	0.21
2	x	1¼	57	x	38	2.5	2.5	76	0.23	2.5	2.5	76	0.23
2	x	1½	57	x	44.5	2.5	2.5	76	0.25	2.5	2.5	76	0.25
2½	x	1¼	76.1	x	38	2.5	2.5	89	0.34	2.5	2.5	89	0.34
2½	x	1½	76.1	x	44.5	2.5	2.5	89	0.36	2.5	2.5	89	0.36
2½	x	2	76.1	x	57	2.5	2.5	89	0.40	2.5	2.5	89	0.40
3	x	1½	88.9	x	44.5	2.5	2.5	89	0.40	2.5	2.5	89	0.40
3	x	2	88.9	x	57	2.5	2.5	89	0.44	2.5	2.5	89	0.44
3	x	2½	88.9	x	76.1	2.5	2.5	89	0.50	2.5	2.5	89	0.50
4	x	2	108	x	57	3.0	2.5	102	0.68	3.0	2.5	102	0.68
4	x	2½	108	x	78.1	3.0	2.5	102	0.76	3.0	2.5	102	0.76
4	x	3	108	x	88.9	3.0	2.5	102	0.82	3.0	2.5	102	0.82
6	x	2	159	x	57	3.0	2.5	140	1.30	3.5	2.5	140	1.50
6	x	2½	159	x	76.1	3.0	2.5	140	1.35	3.5	2.5	140	1.56
6	x	3	159	x	88.9	3.0	2.5	140	1.42	3.5	2.5	140	1.65
6	x	4	159	x	108	3.0	3.0	140	1.54	3.5	3.0	140	1.78
8	x	2½	219.1	x	76.1	4.0	2.5	152	2.45	4.5	2.5	152	2.74
8	x	3	219.1	x	88.9	4.0	2.5	152	2.55	4.5	2.5	152	2.87
8	x	4	219.1	x	108	4.0	3.0	152	2.72	4.5	3.0	152	3.05
8	x	6	219.1	x	159	4.0	3.0	152	3.16	4.5	3.5	152	3.54
10	x	4	267	x	108	4.5	3.0	178	4.11	5.5	3.0	178	5.00
10	x	6	267	x	159	4.5	3.0	178	4.69	5.5	3.5	178	5.70
10	x	8	267	x	219.1	4.5	4.0	178	5.36	5.5	4.5	178	6.53



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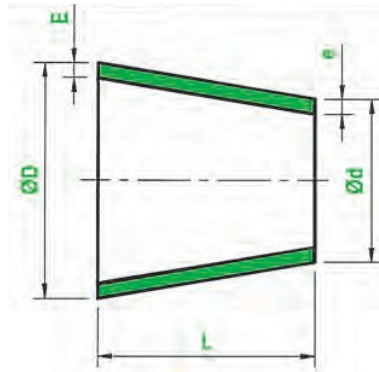
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Concentric Reducers

16 Bar

20 Bar



SEAM WELDED

Material : CuNi 90/10 | CuNi 70/30

Outside Diameter of Pipe						EEMUA 146							
ØD x Ød Nominal (Inch)			ØD x Ød Actual (mm)			16 Bar				20 Bar			
						E (mm)	e (mm)	L (mm)	kg /pc	E (mm)	e (mm)	L (mm)	kg /pc
SEAM WELDED													
12	x	6	323.9	x	159	5.5	3.0	203	7.39	7.0	3.5	203	9.35
12	x	8	323.9	x	219.1	5.5	4.0	203	8.33	7.0	4.5	203	10.55
12	x	10	323.9	x	267	5.5	4.5	203	9.09	7.0	5.5	203	11.52
14	x	8	368	x	219.1	6.5	4.0	330	17.28	8.0	4.5	330	21.16
14	x	10	368	x	267	6.5	4.5	330	18.73	8.0	5.5	330	22.95
14	x	12	368	x	323.9	6.5	5.5	330	20.44	8.0	7.0	330	25.06
16	x	10	419.1	x	267	7.0	4.5	356	23.51	9.0	5.5	356	30.05
16	x	12	419.1	x	323.9	7.0	5.5	356	25.51	9.0	7.0	356	32.62
16	x	14	419.1	x	368	7.0	6.5	356	27.04	9.0	8.0	356	34.60
18	x	12	457.2	x	323.9	8.0	5.5	381	32.72	9.5	7.0	381	38.85
18	x	14	457.2	x	368	8.0	6.5	381	34.61	9.5	8.0	381	41.10
18	x	16	457.2	x	419.1	8.0	7.0	381	36.80	9.5	9.0	381	43.70
20	x	14	508	x	368	8.5	6.5	508	52.07	11.0	8.0	508	67.38
20	x	16	508	x	419.1	8.5	7.0	508	55.17	11.0	9.0	508	71.39
20	x	18	508	x	457.2	8.5	8.0	508	57.48	11.0	9.5	508	74.38
24	x	16	610	x	419.1	10.5	7.0	508	75.49	13.0	9.0	508	93.46
24	x	18	610	x	457.2	10.5	8.0	508	78.34	13.0	9.5	508	96.99
24	x	20	610	x	508	10.5	8.5	508	82.15	13.0	11.0	508	101.70
28	x	18	711	x	457.2	12.0	8.0	610	117.58	15.0	9.5	610	146.97
28	x	20	711	x	508	12.0	8.5	610	122.62	15.0	11.0	610	153.52
28	x	24	711	x	610	12.0	10.5	610	133.30	15.0	13.0	610	166.62
32	x	24	813	x	610	13.5	10.5	610	161.42	17.0	13.0	610	203.26
32	x	28	813	x	711	13.5	12.0	610	173.09	17.0	15.0	610	217.96
36	x	24	914	x	610	15.5	10.5	610	274.48	19.0	13.0	610	336.45
36	x	28	914	x	711	15.5	12.0	610	287.89	19.0	15.0	610	353.89
36	x	32	914	x	813	15.5	13.5	610	301.43	19.0	17.0	610	369.49



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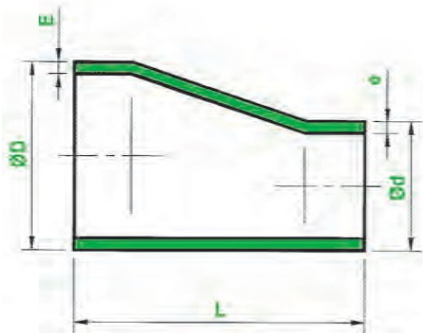
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Eccentric Reducers

10 Bar

14 Bar



Material : CuNi 90/10 | CuNi 70/30

Outside Diameter of Pipe													
ØD x ød		ØD x ød		10 Bar				14 Bar					
Nominal (Inch)		Actual (mm)		E (mm)	e (mm)	L (mm)	kg /pc	E (mm)	e (mm)	L (mm)	kg /pc		
SEAMLESS													
1/2	x	3/8	20	x	16	1.0	1.0	30	0.01	1.5	1.5	30	0.011
3/4	x	3/8	25	x	16	1.5	1.0	30	0.02	1.5	1.5	30	0.023
3/4	x	1/2	25	x	20	1.5	1.0	30	0.03	1.5	1.5	30	0.033
1	x	3/8	30	x	16	1.5	1.0	35	0.03	2.0	1.5	35	0.035
1	x	1/2	30	x	20	1.5	1.0	35	0.04	2.0	1.5	35	0.042
1	x	3/4	30	x	25	1.5	1.5	35	0.05	2.0	1.5	35	0.054
1 1/4	x	3/8	38	x	16	1.5	1.0	50	0.05	2.0	1.5	50	0.055
1 1/4	x	1/2	38	x	20	1.5	1.0	50	0.06	2.0	1.5	50	0.063
1 1/4	x	3/4	38	x	25	1.5	1.5	50	0.07	2.0	1.5	50	0.074
1 1/4	x	1	38	x	30	1.5	1.5	50	0.08	2.0	2.0	50	0.085
1 1/2	x	1/2	44.5	x	20	1.5	1.0	80	0.09	2.0	1.5	80	0.098
1 1/2	x	3/4	44.5	x	25	1.5	1.5	80	0.11	2.0	1.5	80	0.113
1 1/2	x	1	44.5	x	30	1.5	1.5	80	0.12	2.0	2.0	80	0.124
1 1/2	x	1 1/4	44.5	x	38	1.5	1.5	80	0.13	2.0	2.0	80	0.133
2	x	3/4	57	x	25	1.5	1.5	80	0.13	2.0	1.5	80	0.136
2	x	1	57	x	30	1.5	1.5	80	0.14	2.0	2.0	80	0.145
2	x	1 1/4	57	x	38	1.5	1.5	80	0.15	2.0	2.0	80	0.155
2	x	1 1/2	57	x	44.5	1.5	1.5	80	0.16	2.0	2.0	80	0.17
2 1/2	x	1	76.1	x	30	2.0	1.5	90	0.24	2.0	2.0	90	0.245
2 1/2	x	1 1/4	76.1	x	38	2.0	1.5	90	0.25	2.0	2.0	90	0.255
2 1/2	x	1 1/2	76.1	x	44.5	2.0	1.5	90	0.26	2.0	2.0	90	0.273
2 1/2	x	2	76.1	x	57	2.0	1.5	90	0.29	2.0	2.0	90	0.292
3	x	1 1/4	88.9	x	38	2.0	1.5	90	0.29	2.5	1.5	90	0.29
3	x	1 1/2	88.9	x	44.5	2.0	1.5	90	0.30	2.5	1.5	90	0.30
3	x	2	88.9	x	57	2.0	1.5	90	0.32	2.5	1.5	90	0.32
3	x	2 1/2	88.9	x	76	2.0	2.0	90	0.40	2.5	2.0	90	0.40
4	x	1 1/2	108	x	44.5	2.5	1.5	100	0.46	2.0	2.0	90	0.48
4	x	2	108	x	57	2.5	1.5	100	0.48	2.0	2.0	90	0.50
4	x	2 1/2	108	x	76.1	2.5	2.0	100	0.57	2.0	2.0	90	0.55
4	x	3	108	x	88.9	2.5	2.0	100	0.61	2.5	2.5	90	0.61
4	x	3	108	x	88.9	2.5	2.5	100	0.61	2.5	2.5	100	0.61
5	x	2	133	x	57	2.5	1.5	140	0.80	3.0	1.5	140	0.86
5	x	2 1/2	133	x	76.1	2.5	2.0	140	0.93	3.0	2.0	140	1.06
5	x	3	133	x	88.9	2.5	2.0	140	0.98	3.0	2.5	140	1.13
5	x	4	133	x	108	2.5	2.5	140	1.16	3.0	2.5	140	1.34
6	x	2 1/2	159	x	76.1	2.5	2.0	150	1.13	3.0	2.0	150	1.35
6	x	3	159	x	88.9	2.5	2.0	150	1.19	3.0	2.5	150	1.42
6	x	4	159	x	108	2.5	2.5	150	1.38	3.0	2.5	150	1.65
6	x	5	159	x	133	2.5	2.5	150	1.51	3.0	3.0	150	1.81
7	x	3	193.7	x	88.9	2.5	2.0	155	1.39	3.5	2.5	155	1.94
7	x	4	193.7	x	108	2.5	2.5	155	1.58	3.5	2.5	155	2.21
7	x	5	193.7	x	133	2.5	2.5	155	1.71	3.5	3.0	155	2.39
7	x	6	193.7	x	159	2.5	2.5	155	1.85	3.5	3.0	155	2.60



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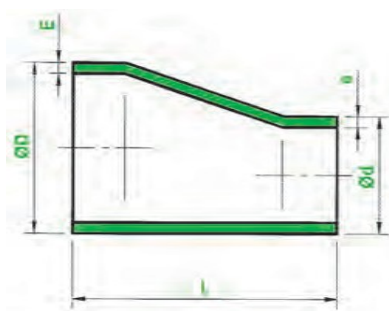
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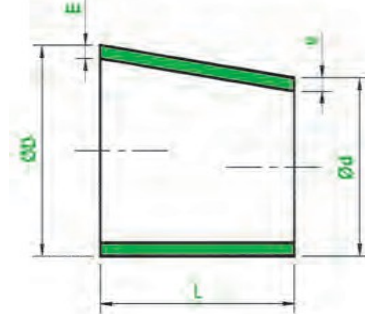
Eccentric Reducers

10 Bar

14 Bar



SEAMLESS



SEAM WELDED

Material : CuNi 90/10 | CuNi 70/30

Outside Diameter of Pipe													
ØD x ød		ØD x ød				10 Bar				14 Bar			
Nominal (Inch)		Actual (mm)				E (mm)	e (mm)	L (mm)	kg /pc	E (mm)	e (mm)	L (mm)	kg /pc
SEAMLESS													
8	x	4	219.1	x	108	3.0	2.5	155	2.47	3.5	2.0	155	2.88
8	x	5	219.1	x	133	3.0	2.5	155	2.60	3.5	3.0	155	3.03
8	x	6	219.1	x	159	3.0	2.5	155	2.74	3.5	3.0	155	3.20
8	x	7	219.1	x	193.7	3.0	2.5	155	2.93	3.5	3.0	155	3.42
SEAM WELDED													
10	x	5	267	x	133	3.0	2.5	210	3.30	4.0	3.0	210	4.40
10	x	6	267	x	159	3.0	2.5	210	3.49	4.0	3.0	210	4.65
10	x	7	267	x	193.7	3.0	2.5	210	3.75	4.0	3.5	210	5.00
10	x	8	267	x	219.1	3.0	3.0	210	4.25	4.0	3.5	210	5.65
12	x	5	323.9	x	133	4.0	2.5	210	5.30	5.0	3.0	210	6.62
12	x	6	323.9	x	159	4.0	2.5	210	5.60	5.0	3.0	210	7.00
12	x	7	323.9	x	193.7	4.0	2.5	210	6.02	5.0	3.5	210	7.52
12	x	8	323.9	x	219.1	4.0	3.0	210	6.30	5.0	3.5	210	7.90
12	x	10	323.9	x	267	4.0	3.0	210	6.88	5.0	4.0	210	8.60
14	x	6	368	x	159	4.0	2.5	300	8.75	5.5	3.0	300	12.03
14	x	7	368	x	193.7	4.0	2.5	300	9.34	5.5	3.0	300	12.84
14	x	8	368	x	219.1	4.0	3.0	300	9.76	5.5	3.5	300	13.42
14	x	10	368	x	267	4.0	3.0	300	10.57	5.5	4.0	300	14.53
14	x	12	368	x	323.9	4.0	4.0	300	11.53	5.5	5.0	300	15.85
16	x	7	419.1	x	193.7	4.0	2.5	325	11.04	6.0	3.5	325	16.56
16	x	8	419.1	x	219.1	4.0	3.0	325	11.50	6.0	3.5	325	17.25
16	x	10	419.1	x	267	4.0	3.0	325	12.38	6.0	4.0	325	18.57
16	x	12	419.1	x	323.9	4.0	4.0	325	13.42	6.0	5.0	325	20.13
16	x	14	419.1	x	368	4.0	4.0	325	14.22	6.0	5.5	325	21.33
18	x	8	457.2	x	219.1	4.0	3.0	350	13.14	6.0	3.5	350	19.70
18	x	10	457.2	x	267	4.0	3.0	350	14.08	6.0	4.0	350	21.10
18	x	12	457.2	x	323.9	4.0	4.0	350	15.20	6.0	5.0	350	22.80
18	x	14	457.2	x	368	4.0	4.0	350	16.06	6.0	5.5	350	24.10
18	x	16	457.2	x	419.1	4.0	4.0	350	17.07	6.0	6.0	350	25.60
20	x	10	508	x	267	4.5	3.0	375	18.07	6.5	4.0	375	26.10
20	x	12	508	x	323.9	4.5	4.0	375	19.42	6.5	5.0	375	28.05
20	x	14	508	x	368	4.5	4.0	375	20.47	6.5	5.5	375	29.60
20	x	16	508	x	419.1	4.5	4.0	375	21.68	6.5	6.0	375	31.30
20	x	18	508	x	457.2	4.5	4.0	375	22.57	6.5	6.0	375	32.60
24	x	14	610	x	368	5.0	4.0	400	27.19	8.0	5.5	400	43.50
24	x	16	610	x	419.1	5.0	4.0	400	28.62	8.0	6.0	400	45.80
24	x	18	610	x	457.2	5.0	4.0	400	29.69	8.0	6.0	400	47.50
24	x	20	610	x	508	5.0	4.5	400	31.12	8.0	6.5	400	49.80



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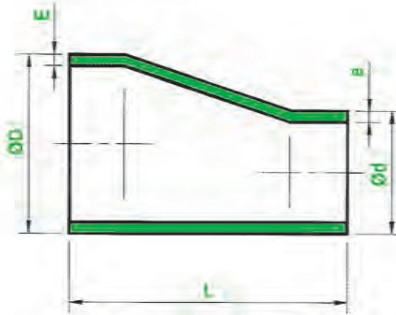
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Eccentric Reducers

16 Bar

20 Bar



Material : CuNi 90/10 | CuNi 70/30

Outside Diameter of Pipe						EEMUA 146							
ØD x ød			ØD x ød			16 Bar				20 Bar			
Nominal (Inch)			Actual (mm)			E (mm)	e (mm)	L (mm)	kg /pc	E (mm)	e (mm)	L (mm)	kg /pc
SEAMLESS													
1	x	3/4	30	x	25	2.5	2.0	51	0.09	2.5	2.0	51	0.09
1¼	x	3/4	38	x	25	2.5	2.0	51	0.10	2.5	2.0	51	0.10
1¼	x	1	38	x	30	2.5	2.5	51	0.11	2.5	2.5	51	0.11
1½	x	3/4	44.5	x	25	2.5	2.0	64	0.14	2.5	2.0	64	0.14
1½	x	1	44.5	x	30	2.5	2.5	64	0.15	2.5	2.5	64	0.15
1½	x	1¼	44.5	x	38	2.5	2.5	64	0.17	2.5	2.5	64	0.17
2	x	1	57	x	30	2.5	2.5	76	0.21	2.5	2.5	76	0.21
2	x	1¼	57	x	38	2.5	2.5	76	0.23	2.5	2.5	76	0.23
2	x	1½	57	x	44.5	2.5	2.5	76	0.25	2.5	2.5	76	0.25
2½	x	1¼	76.1	x	38	2.5	2.5	89	0.34	2.5	2.5	89	0.34
2½	x	1½	76.1	x	44.5	2.5	2.5	89	0.36	2.5	2.5	89	0.36
2½	x	2	76.1	x	57	2.5	2.5	89	0.40	2.5	2.5	89	0.40
3	x	1½	88.9	x	44.5	2.5	2.5	89	0.40	2.5	2.5	89	0.40
3	x	2	88.9	x	57	2.5	2.5	89	0.44	2.5	2.5	89	0.44
3	x	2½	88.9	x	76.1	2.5	2.5	89	0.50	2.5	2.5	89	0.50
4	x	2	108	x	57	3.0	2.5	102	0.68	3.0	2.5	102	0.68
4	x	2½	108	x	76.1	3.0	2.5	102	0.76	3.0	2.5	102	0.76
4	x	3	108	x	88.9	3.0	2.5	102	0.82	3.0	2.5	102	0.82
6	x	2	159	x	57	3.0	2.5	140	1.30	3.5	2.5	140	1.50
6	x	2½	159	x	76.1	3.0	2.5	140	1.35	3.5	2.5	140	1.56
6	x	3	159	x	88.9	3.0	2.5	140	1.42	3.5	2.5	140	1.65
6	x	4	159	x	108	3.0	3.0	140	1.54	3.5	3.0	140	1.78
8	x	2½	219.1	x	76.1	4.0	2.5	152	2.45	4.5	2.5	152	2.74
8	x	3	219.1	x	88.9	4.0	2.5	152	2.55	4.5	2.5	152	2.87
8	x	4	219.1	x	108	4.0	3.0	152	2.72	4.5	3.0	152	3.05
8	x	6	219.1	x	159	4.0	3.0	152	3.16	4.5	3.5	152	3.54



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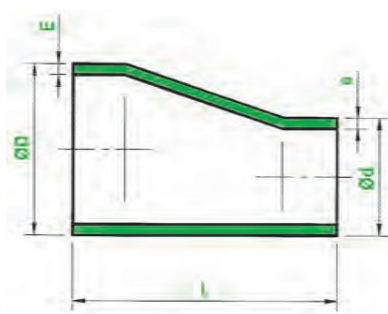
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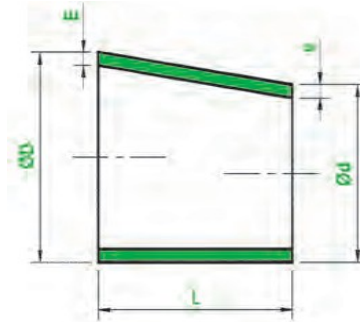
Eccentric Reducers

16 Bar

20 Bar



SEAMLESS



SEAM WELDED

Material : CuNi 90/10 | CuNi 70/30

Outside Diameter of Pipe						EEMUA 146							
ØD x Ød Nominal (Inch)			ØD x Ød Actual (mm)			16 Bar				20 Bar			
						E (mm)	e (mm)	L (mm)	kg /pc	E (mm)	e (mm)	L (mm)	kg /pc
SEAM WELDED													
10	x	4	267	x	108	4.5	3.0	178	4.11	5.5	3.0	178	5.00
10	x	6	267	x	159	4.5	3.0	178	4.69	5.5	3.5	178	5.70
10	x	8	267	x	219.1	4.5	4.0	178	5.36	5.5	4.5	178	6.53
12	x	6	323.9	x	159	5.5	3.0	203	7.39	7.0	3.5	203	9.35
12	x	8	323.9	x	219.1	5.5	4.0	203	8.33	7.0	4.5	203	10.55
12	x	10	323.9	x	267	5.5	4.5	203	9.09	7.0	5.5	203	11.52
14	x	8	368	x	219.1	6.5	4.0	330	17.28	8.0	4.5	330	21.16
14	x	10	368	x	267	6.5	4.5	330	18.73	8.0	5.5	330	22.95
14	x	12	368	x	323.9	6.5	5.5	330	20.44	8.0	7.0	330	25.06
16	x	10	419.1	x	267	7.0	4.5	356	23.51	9.0	5.5	356	30.05
16	x	12	419.1	x	323.9	7.0	5.5	356	25.51	9.0	7.0	356	32.62
16	x	14	419.1	x	368	7.0	6.5	356	27.04	9.0	8.0	356	35.60
18	x	12	457.2	x	323.9	8.0	5.5	381	32.72	9.5	7.0	381	38.85
18	x	14	457.2	x	368	8.0	6.5	381	34.61	9.5	8.0	381	41.10
18	x	16	457.2	x	419.1	8.0	7.0	381	36.80	9.5	9.0	381	43.70
20	x	14	508	x	368	8.5	6.5	508	52.07	11.0	8.0	508	67.38
20	x	16	508	x	419.1	8.5	7.0	508	55.17	11.0	9.0	508	71.39
20	x	18	508	x	457.2	8.5	8.0	508	57.48	11.0	9.5	508	74.38
24	x	16	610	x	419.1	10.5	7.0	508	75.49	13.0	9.0	508	93.46
24	x	18	610	x	457.2	10.5	8.0	508	78.34	13.0	9.5	508	96.99
24	x	20	610	x	508	10.5	8.5	508	82.15	13.0	11.0	508	101.70
28	x	18	711	x	457.2	12.0	8.0	610	117.58	15.0	9.5	610	146.97
28	x	20	711	x	508	12.0	8.5	610	122.82	15.0	11.0	610	153.52
28	x	24	711	x	610	12.0	10.5	610	133.30	15.0	13.0	610	166.62
32	x	24	813	x	610	13.5	10.5	610	161.42	17.0	13.0	610	203.26
32	x	28	813	x	711	13.5	12.0	610	173.09	17.0	15.0	610	217.96
36	x	24	914	x	610	15.5	10.5	610	274.48	19.0	13.0	610	336.45
36	x	28	914	x	711	15.5	12.0	610	287.89	19.0	15.0	610	352.89
36	x	32	914	x	813	15.5	13.5	610	301.43	19.0	17.0	610	369.49



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