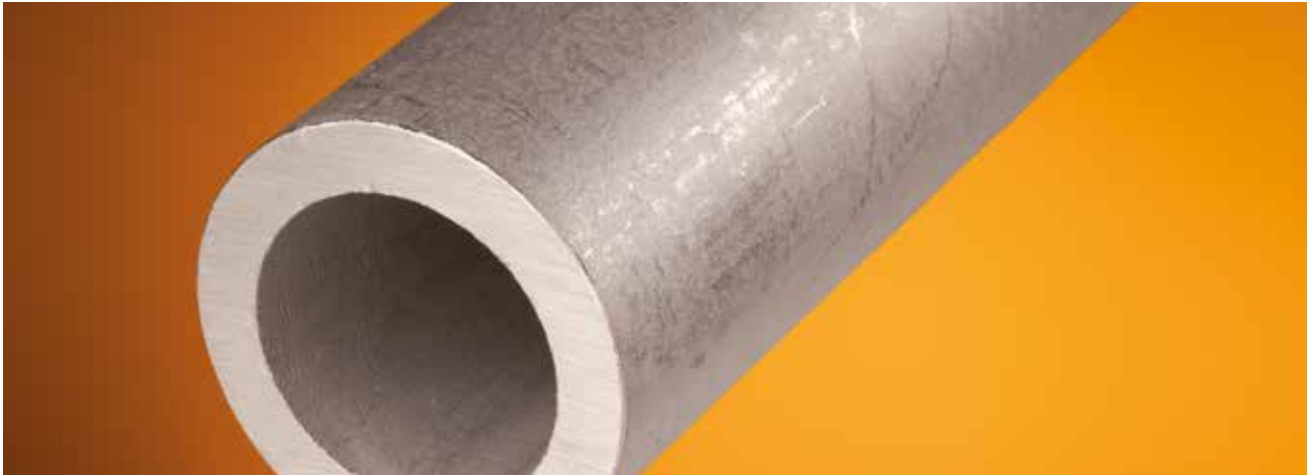


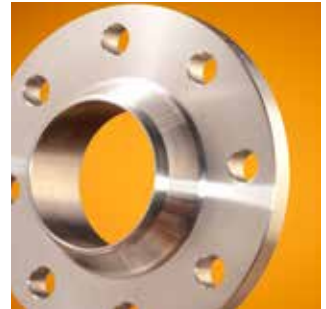


STAPPERT

STAPPERT | UK



THE INTELLIGENT STAINLESS STEEL STOCK RANGE



Stainless, highly corrosion and
heat resistant steels



A material grade makes history.

Even at the end of the 19th century it was discovered that the corrosion behaviour of steel could be optimised considerably by adding nickel and chrome. But only in 1912 by means of the patent for „stainless steel“ the foundation stone for the industrial production of stainless steel was laid by the company Krupp. In the 50's the material started an incomparable triumphal march. Since 1958 the marking „Edelstahl Rostfrei “ has been a registered trademark. The importance of stainless steel is undiminished. The world-wide annual production has more than doubled between 2000 (approx. 18 million tons) and 2014 (approx. 42 million tons).

We offer a wide range of products ex stock for you.

When it comes to stainless, highly corrosion and heat resistant steels, STAPPERT is your first choice. You will find round bars, hollow bars, flat bars, key steel, square and hexagonal bars. Tubes, fittings, angles, profiles and sheets are part of our wide range, too.

Since 2011 we have been repositioning under the umbrella of Jacquet Metal Service Group. And you will benefit from this, too: there are more products to choose from, optimised service and a clear focus on long products. Today, STAPPERT is represented in 12 European countries.

High availability and uncompromising quality are STAPPERT's top priority. So today we offer our customers a varied and properly sophisticated range of about 15,000 stainless steel products. And all that ex stock – from the standard product to the tailor-made solution. For our customers this means: full satisfaction of demand and perfect service within a short while.

Our product catalogue gives you an overview about our offer. Do you need special dimensions, special certifications or samples or do you have questions about our products? No problem – the experts from our regional sales offices are looking forward to advise you.



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ROUND BARS

hot-formed

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In good shape

Hot-formed round bars feature high stability, long durability and good workability. Do you have special wishes? From sawing over, refinement, chamfering to pointing – our service is also in good shape and it will take care for your desires.

Round bars | hot-formed

in random lengths from 4 to 6.2 m

- * solution annealed, mill finish or pickled
- ** hardened and tempered, peeled or turned, in some cases before heat treatment, partially in non-descaled finish
- *** annealed, peeled or turned, in some cases before heat treatment, partially in non-descaled finish
- **** solution annealed in delivery condition, including notes on mechanical properties when precipitation-hardened, peeled or turned

Dimension standards

DIN EN 10060 or DIN 7527, sheet 6

Test certificates

DIN EN 10204 3.1 or works' test certificate 2.1/2.2

*/**/*** Classification see page 10 - 21

mm	stainless								
	grade	1.4006	1.4021	1.4028	1.4034	1.4057	1.4104	1.4112	1.4122
	AISI	410	420	420F	420	431	430F	440B	440B
kg/m	**)	**)	**)	***)	**)	**)	**)	***)	**)
16,00	1,58		▪						
18,00	2,00								▪
20,00	2,47		▪			▪		▪	▪
22,00	2,98		▪			▪			▪
24,00	3,55		▪			▪			
25,00	3,85		▪			▪		▪	▪
26,00	4,17		▪			▪			▪
27,00	4,49								
28,00	4,83		▪			▪		▪	▪
30,00	5,55	▪	▪	▪	▪	▪		▪	▪
32,00	6,31		▪			▪			
33,00	6,71								
34,00	7,13								
35,00	7,55	▪	▪		▪	▪		▪	▪
36,00	7,99		▪			▪		▪	▪
38,00	8,90		▪			▪			▪
40,00	9,86	▪	▪	▪	▪	▪	▪	▪	▪
42,00	10,88		▪			▪			▪
45,00	12,48	▪	▪		▪	▪	▪	▪	▪
46,00	13,05		▪						
48,00	14,21		▪			▪			
50,00	15,41	▪	▪	▪	▪	▪	▪	▪	▪
51,20	16,16								
52,00	16,67		▪			▪			▪
55,00	18,65	▪	▪		▪	▪	▪	▪	▪
56,20	19,47								
60,00	22,20	▪	▪	▪	▪	▪	▪	▪	▪
61,20	23,09								
62,00	23,70								
65,00	26,05	▪	▪		▪	▪	▪	▪	▪
66,20	27,02								
70,00	30,21	▪	▪	▪	▪	▪	▪	▪	▪
71,40	31,43								
75,00	34,68	▪	▪		▪	▪	▪	▪	▪
76,40	35,99								
80,00	39,46	▪	▪	▪	▪	▪	▪	▪	▪
81,40	40,85								
85,00	44,54	▪	▪		▪	▪	▪	▪	▪
86,40	46,02								

*/**/**/**** finishes see page 9

mm	stainless								
	grade	1.4301	1.4305	1.4306	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	304	303	304L	304L	316	316L	321	316Ti
kg/m	*) 1)	*)	*)	*)	*)	*)	*)	*)	*)
16,00	1,58								
18,00	2,00								
20,00	2,47	▪			▪	▪	▪	▪	▪
22,00	2,98	▪			▪	▪	▪	▪	▪
24,00	3,55	▪			▪			▪	▪
25,00	3,85	▪			▪	▪	▪	▪	▪
26,00	4,17								▪
27,00	4,49								▪
28,00	4,83	▪			▪	▪	▪	▪	▪
30,00	5,55	▪			▪	▪	▪	▪	▪
32,00	6,31	▪			▪	▪	▪	▪	▪
33,00	6,71								▪
34,00	7,13								▪
35,00	7,55	▪	▪	▪	▪	▪	▪	▪	▪
36,00	7,99	▪			▪	▪	▪	▪	▪
38,00	8,90	▪			▪	▪	▪	▪	▪
40,00	9,86	▪	▪	▪	▪	▪	▪	▪	▪
42,00	10,88	▪	▪		▪	▪	▪	▪	▪
45,00	12,48	▪	▪	▪	▪	▪	▪	▪	▪
46,00	13,05								
48,00	14,21	▪			▪	▪	▪		▪
50,00	15,41	▪	▪	▪	▪	▪	▪	▪	▪
51,20	16,16	▪			▪	▪	▪		
52,00	16,67							▪	▪
55,00	18,65	▪	▪	▪	▪	▪	▪	▪	▪
56,20	19,47	▪			▪	▪	▪		
60,00	22,20	▪	▪	▪	▪	▪	▪	▪	▪
61,20	23,09	▪			▪	▪	▪		
62,00	23,70								▪
65,00	26,05	▪	▪		▪	▪	▪	▪	▪
66,20	27,02	▪			▪	▪	▪		
70,00	30,21	▪	▪	▪	▪	▪	▪	▪	▪
71,40	31,43	▪			▪	▪	▪		
75,00	34,68	▪	▪		▪	▪	▪	▪	▪
76,40	35,99	▪			▪	▪	▪		
80,00	39,46	▪	▪	▪	▪	▪	▪	▪	▪
81,40	40,85	▪			▪	▪	▪		
85,00	44,54	▪	▪		▪	▪	▪	▪	▪
86,40	46,02	▪			▪	▪	▪		

1) for the most part in modified condition, i.e. S-content $\geq 0,02\%$ to $\leq 0,03\%$ to improve machinability

*/**/**/**** finishes see page 9

mm	stainless								
	grade	1.4006	1.4021	1.4028	1.4034	1.4057	1.4104	1.4112	1.4122
	AISI	410	420	420F	420	431	430F	440B	440B
	kg/m	**))	**))	**))	**))	**))	**))	**))	**))
90,00	49,94	▪	▪	▪	▪	▪	▪	▪	▪
91,40	51,51								
95,00	55,64		▪		▪	▪	▪	▪	▪
96,40	57,29								
100,00	61,65	▪	▪	▪	▪	▪	▪	▪	▪
102,00	64,14								
105,00	67,97		▪			▪	▪	▪	▪
107,00	70,59								
110,00	74,60	▪	▪	▪	▪	▪	▪	▪	▪
112,00	77,34								
115,00	81,54		▪			▪	▪	▪	▪
117,00	84,40								
120,00	88,78	▪	▪	▪	▪	▪	▪	▪	▪
122,00	91,77								
125,00	96,33		▪			▪	▪	▪	▪
130,00	104,19	▪	▪	▪	▪	▪	▪	▪	▪
135,00	112,36		▪			▪			▪
140,00	120,84	▪	▪	▪	▪	▪	▪	▪	▪
145,00	129,63		▪			▪			▪
150,00	138,72	▪	▪	▪	▪	▪	▪	▪	▪
155,00	148,12					▪			
160,00	157,83	▪	▪		▪	▪	▪	▪	▪
165,00	167,85		▪			▪			
170,00	178,18	▪	▪	▪	▪	▪	▪	▪	▪
175,00	188,81		▪						
180,00	199,76	▪	▪		▪	▪	▪	▪	▪
185,00	211,01								
190,00	222,57		▪		▪	▪	▪	▪	▪
195,00	234,44								
200,00	246,62	▪	▪	▪	▪	▪	▪	▪	▪
210,00	271,89	▪	▪			▪	▪	▪	▪
220,00	298,40	▪	▪		▪	▪	▪	▪	▪
225,00	312,12								
230,00	326,15	▪	▪			▪	▪	▪	▪
240,00	355,13	▪	▪		▪	▪	▪	▪	▪
250,00	385,34	▪	▪		▪	▪	▪	▪	▪
260,00	416,78		▪			▪	▪	▪	▪
270,00	449,46		▪			▪	▪	▪	▪
275,00	466,26				▪				

*/**/**/**** finishes see page 9

mm	stainless								
	grade	1.4301	1.4305	1.4306	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	304	303	304L	304L	316	316L	321	316Ti
kg/m	*) 1)	*)	*)	*)	*)	*)	*)	*)	*)
90,00	49,94	▪	▪	▪	▪	▪	▪	▪	▪
91,40	51,51	▪			▪	▪	▪		
95,00	55,64	▪	▪		▪	▪	▪	▪	▪
96,40	57,29	▪			▪	▪	▪		
100,00	61,65	▪	▪	▪	▪	▪	▪	▪	▪
102,00	64,14	▪			▪	▪	▪		
105,00	67,97	▪	▪		▪	▪	▪	▪	▪
107,00	70,59	▪			▪	▪	▪		
110,00	74,60	▪	▪	▪	▪	▪	▪	▪	▪
112,00	77,34	▪			▪	▪	▪		
115,00	81,54	▪	▪		▪	▪	▪	▪	▪
117,00	84,40	▪			▪	▪	▪		
120,00	88,78	▪	▪	▪	▪	▪	▪	▪	▪
122,00	91,77	▪			▪	▪	▪		
125,00	96,33	▪	▪		▪	▪	▪	▪	▪
130,00	104,19	▪	▪	▪	▪	▪	▪	▪	▪
135,00	112,36	▪	▪		▪	▪	▪	▪	▪
140,00	120,84	▪	▪	▪	▪	▪	▪	▪	▪
145,00	129,63	▪	▪		▪	▪	▪	▪	▪
150,00	138,72	▪	▪	▪	▪	▪	▪	▪	▪
155,00	148,12	▪	▪		▪	▪	▪	▪	▪
160,00	157,83	▪	▪	▪	▪	▪	▪	▪	▪
165,00	167,85	▪	▪		▪	▪	▪	▪	▪
170,00	178,18	▪	▪		▪	▪	▪	▪	▪
175,00	188,81	▪			▪	▪	▪	▪	▪
180,00	199,76	▪	▪		▪	▪	▪	▪	▪
185,00	211,01	▪			▪			▪	▪
190,00	222,57	▪	▪		▪	▪	▪	▪	▪
195,00	234,44	▪			▪				
200,00	246,62	▪	▪	▪	▪	▪	▪	▪	▪
210,00	271,89	▪	▪		▪	▪	▪	▪	▪
220,00	298,40	▪	▪		▪	▪	▪	▪	▪
225,00	312,12								▪
230,00	326,15	▪	▪		▪	▪	▪	▪	▪
240,00	355,13	▪	▪		▪	▪	▪	▪	▪
250,00	385,34	▪	▪		▪	▪	▪	▪	▪
260,00	416,78	▪	▪		▪	▪	▪	▪	▪
270,00	449,46	▪	▪		▪	▪	▪	▪	▪
275,00	466,26								

1) for the most part in modified condition, i.e. S-content $\geq 0,02\%$ to $\leq 0,03\%$ to improve machinability

*/**/***/* finish see page 9

	stainless								
	grade	1.4006	1.4021	1.4028	1.4034	1.4057	1.4104	1.4112	1.4122
	AISI	410	420	420F	420	431	430F	440B	440B
mm	kg/m	**)	**)	**)	***)	**)	**)	***)	**)
280,00	483,37		▪			▪	▪	▪	▪
285,00	500,78								
290,00	518,51		▪					▪	▪
300,00	554,88		▪		▪	▪	▪	▪	▪
310,00	592,49		▪			▪			
320,00	631,33		▪			▪			
325,00	651,22				▪	▪	▪	▪	▪
330,00	671,41		▪						▪
340,00	712,72		▪						
350,00	755,26		▪			▪	▪	▪	▪
360,00	799,03		▪			▪			
370,00	844,04		▪						
375,00	867,01					▪		▪	
380,00	890,28		▪						
390,00	937,75								
400,00	986,46		▪			▪	▪	▪	▪
410,00	1.036,40								
420,00	1.087,57								
425,00	1.113,62		▪			▪			
430,00	1.139,98								
440,00	1.193,62								
450,00	1.248,49		▪			▪			▪
460,00	1.304,59								
470,00	1.361,93								
475,00	1.391,06		▪						
480,00	1.420,50								
490,00	1.480,31								
500,00	1.541,34		▪			▪			▪
510,00	1.603,61								▪
520,00	1.667,12								
525,00	1.699,33		▪						▪
530,00	1.731,85								
540,00	1.797,82								
550,00	1.865,03		▪						
575,00	2.038,43								
600,00	2.219,54								
625,00	2.408,35								

*/**/**/**** finishes see page 9

mm	stainless								
	grade	1.4301	1.4305	1.4306	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	304	303	304L	304L	316	316L	321	316Ti
	kg/m	*) 1)	*)	*)	*)	*)	*)	*)	*)
280,00	483,37	▪	▪		▪	▪	▪	▪	▪
285,00	500,78	▪			▪				▪
290,00	518,51	▪			▪	▪	▪	▪	▪
300,00	554,88	▪	▪		▪	▪	▪	▪	▪
310,00	592,49	▪	▪		▪	▪	▪	▪	▪
320,00	631,33	▪			▪	▪	▪		▪
325,00	651,22		▪					▪	▪
330,00	671,41	▪			▪	▪	▪		▪
340,00	712,72	▪			▪	▪	▪	▪	▪
350,00	755,26	▪	▪		▪	▪	▪	▪	▪
360,00	799,03	▪			▪	▪	▪	▪	▪
370,00	844,04	▪			▪				▪
375,00	867,01		▪			▪	▪	▪	
380,00	890,28	▪			▪				▪
390,00	937,75								▪
400,00	986,46	▪	▪		▪	▪	▪	▪	▪
410,00	1.036,40	▪			▪				▪
420,00	1.087,57								▪
425,00	1.113,62	▪	▪		▪	▪	▪	▪	▪
430,00	1.139,98								▪
440,00	1.193,62								▪
450,00	1.248,49	▪	▪		▪	▪	▪	▪	▪
460,00	1.304,59								▪
470,00	1.361,93								▪
475,00	1.391,06	▪			▪	▪	▪	▪	
480,00	1.420,50								▪
490,00	1.480,31								▪
500,00	1.541,34	▪	▪		▪	▪	▪	▪	▪
510,00	1.603,61								▪
520,00	1.667,12								▪
525,00	1.699,33	▪			▪	▪	▪	▪	
530,00	1.731,85								▪
540,00	1.797,82								▪
550,00	1.865,03	▪			▪	▪	▪		▪
575,00	2.038,43	▪			▪	▪	▪		▪
600,00	2.219,54					▪	▪		▪
625,00	2.408,35					▪	▪		▪

1) for the most part in modified condition, i.e. S-content $\geq 0,02\%$ to $\leq 0,03\%$ to improve machinability

*/**/***/* finish see page 9

mm	stainless						Duplex/Superduplex			
	grade	1.4125	1.4313	1.4418	1.4435	1.4542	1.4410	1.4460	1.4462	1.4501
	AISI/ UNS	440C	CA 6-NM		316L	630	S32750 Superduplex	S32900 Duplex	S31803 Duplex	S32760 Superduplex
kg/m	***)	**)	**)	*)	****)	*)	*)	*)	*)	*)
6,00	0,22									
8,00	0,39									
10,00	0,62									
12,00	0,89									
13,00	1,04									
14,00	1,21									
15,00	1,39									
16,00	1,58						▪			
18,00	2,00									
20,00	2,47	▪	▪				▪		▪	
22,00	2,98								▪	
24,00	3,55									
25,00	3,85	▪	▪	▪					▪	▪
26,00	4,17									
28,00	4,83								▪	
30,00	5,55	▪	▪	▪	▪	▪	▪		▪	▪
31,00	5,92							▪		
32,00	6,31					▪				
33,00	6,71									
35,00	7,55	▪	▪	▪	▪	▪			▪	▪
36,00	7,99				▪			▪	▪	
38,00	8,90									
40,00	9,86	▪	▪	▪	▪	▪	▪		▪	▪
41,00	10,36							▪		
42,00	10,88									
44,45	12,18									▪
45,00	12,48	▪	▪	▪	▪	▪			▪	▪
46,00	13,05							▪		
50,00	15,41	▪	▪	▪	▪	▪	▪		▪	▪
50,08	15,46									▪
51,20	16,16							▪		
52,00	16,67				▪				▪	
55,00	18,65	▪	▪	▪	▪	▪			▪	
56,20	19,47							▪		
60,00	22,20	▪	▪	▪	▪	▪	▪		▪	▪
61,20	23,09							▪		
65,00	26,05	▪	▪	▪	▪	▪			▪	
66,20	27,02							▪		
70,00	30,21	▪	▪	▪	▪	▪	▪		▪	▪
71,40	31,43							▪		

*/**/**/**** finishes see page 9

mm	highly corrosion resistant				heat resistant/high creep resistant								
	grade	1.4439	1.4529	1.4539	1.4713	1.4742	1.4762	1.4828	1.4841	1.4845	1.4876	1.4878	1.4923
	AISI	317 LMN	N08926	904L			446	309	314	310S	Alloy 800H	321H	
kg/m	*)	*)	*)	***)	***)	***)	*)	*)	*)	*)	*)	*)	**)
6,00	0,22			▪				▪	▪	▪			
8,00	0,39			▪				▪	▪	▪			
10,00	0,62			▪		▪		▪	▪	▪			
12,00	0,89			▪				▪	▪	▪			
13,00	1,04			▪									
14,00	1,21			▪					▪				
15,00	1,39			▪				▪	▪	▪			
16,00	1,58		▪	▪	▪	▪	▪	▪	▪				
18,00	2,00			▪				▪	▪				
20,00	2,47	▪	▪	▪	▪	▪	▪	▪	▪	▪		▪	▪
22,00	2,98			▪		▪		▪	▪			▪	
24,00	3,55		▪	▪				▪	▪			▪	
25,00	3,85	▪	▪	▪	▪		▪	▪	▪		▪	▪	▪
26,00	4,17			▪				▪					
28,00	4,83			▪	▪		▪	▪	▪			▪	
30,00	5,55	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
31,00	5,92												
32,00	6,31							▪	▪			▪	
33,00	6,71												
35,00	7,55	▪	▪	▪	▪	▪	▪	▪	▪			▪	▪
36,00	7,99							▪	▪			▪	
38,00	8,90											▪	
40,00	9,86	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
41,00	10,36												
42,00	10,88			▪				▪				▪	
44,45	12,18												
45,00	12,48			▪			▪	▪	▪			▪	▪
46,00	13,05												
50,00	15,41	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
50,08	15,46												
51,20	16,16												
52,00	16,67											▪	
55,00	18,65			▪	▪		▪	▪	▪			▪	▪
56,20	19,47												
60,00	22,20	▪	▪	▪	▪	▪	▪	▪	▪	▪		▪	▪
61,20	23,09												
65,00	26,05			▪				▪	▪			▪	▪
66,20	27,02												
70,00	30,21	▪	▪	▪	▪		▪	▪	▪			▪	▪
71.40	31.43												

*/**/***/**** finishes see page 9

mm	stainless						Duplex/Superduplex			
	grade	1.4125	1.4313	1.4418	1.4435	1.4542	1.4410	1.4460	1.4462	1.4501
	AISI/ UNS	440C	CA 6-NM		316L	630	S32750 Superduplex	S32900 Duplex	S31803 Duplex	S32760 Superduplex
kg/m	***)	**)	**)	*)	****)	*)	*)	*)	*)	*)
73,02	32,87									▪
75,00	34,68	▪	▪	▪	▪	▪			▪	▪
76,20	35,80									▪
76,40	35,99							▪		
80,00	39,46	▪	▪	▪	▪	▪	▪		▪	▪
81,40	40,85							▪		
82,55	42,01									▪
85,00	44,54	▪	▪	▪	▪	▪			▪	
86,40	46,02							▪		
90,00	49,94	▪	▪		▪	▪	▪		▪	▪
91,40	51,51							▪		
95,00	55,64			▪	▪	▪			▪	
95,25	55,94									▪
96,40	57,29							▪		
100,00	61,65	▪	▪	▪	▪	▪	▪		▪	▪
102,00	64,14							▪		
105,00	67,97				▪				▪	
107,00	70,59							▪		
110,00	74,60	▪	▪	▪	▪	▪	▪		▪	▪
112,00	77,34							▪		
115,00	81,54				▪				▪	
117,00	84,40							▪		
120,00	88,78	▪	▪	▪	▪	▪	▪		▪	▪
122,00	91,77							▪		
125,00	96,33				▪				▪	
127,00	99,44							▪		
130,00	104,19	▪	▪		▪	▪	▪		▪	▪
132,00	107,43							▪		
135,00	112,36								▪	
140,00	120,84	▪	▪	▪	▪	▪	▪		▪	▪
143,00	126,08							▪		
145,00	129,63								▪	
150,00	138,72	▪	▪	▪	▪	▪	▪		▪	▪
153,00	144,33							▪		
155,00	148,12									
160,00	157,83	▪	▪	▪	▪	▪	▪		▪	▪
163,00	163,81							▪		
165,00	167,85								▪	
170,00	178,18		▪	▪	▪	▪	▪		▪	▪
173,00	184,52							▪		

*/**/**/**** finishes see page 9

	highly corrosion resistant				heat resistant/high creep resistant								
	grade	1.4439	1.4529	1.4539	1.4713	1.4742	1.4762	1.4828	1.4841	1.4845	1.4876	1.4878	1.4923
	AISI	317 LMN	N08926	904L			446	309	314	310S	Alloy 800H	321H	
mm	kg/m	*)	*)	*)	***)	***)	***)	*)	*)	*)	*)	*)	**)
73,02	32,87												
75,00	34,68			▪			▪	▪	▪			▪	▪
76,20	35,80												
76,40	35,99												
80,00	39,46	▪	▪	▪	▪	▪	▪	▪	▪	▪		▪	▪
81,40	40,85												
82,55	42,01												
85,00	44,54			▪				▪	▪			▪	
86,40	46,02												
90,00	49,94	▪		▪			▪	▪	▪			▪	▪
91,40	51,51												
95,00	55,64			▪				▪	▪			▪	
95,25	55,94												
96,40	57,29												
100,00	61,65		▪	▪	▪		▪	▪	▪	▪		▪	▪
102,00	64,14												
105,00	67,97			▪								▪	
107,00	70,59												
110,00	74,60	▪		▪				▪	▪			▪	
112,00	77,34												
115,00	81,54			▪								▪	
117,00	84,40												
120,00	88,78		▪	▪			▪	▪	▪			▪	▪
122,00	91,77												
125,00	96,33			▪						▪		▪	
127,00	99,44												
130,00	104,19			▪				▪	▪			▪	▪
132,00	107,43												
135,00	112,36											▪	
140,00	120,84	▪	▪	▪				▪	▪			▪	▪
143,00	126,08												
145,00	129,63											▪	
150,00	138,72		▪	▪				▪	▪	▪		▪	▪
153,00	144,33												
155,00	148,12											▪	
160,00	157,83	▪		▪				▪	▪			▪	
163,00	163,81												
165,00	167,85		▪									▪	
170,00	178,18			▪				▪	▪			▪	
173,00	184,52												

*/**/**/**** finishes see page 9

mm	stainless						Duplex/Superduplex			
	grade	1.4125	1.4313	1.4418	1.4435	1.4542	1.4410	1.4460	1.4462	1.4501
	AISI/ UNS	440C	CA 6-NM		316L	630	S32750 Superduplex	S32900 Duplex	S31803 Duplex	S32760 Superduplex
mm	kg/m	***)	**)	**)	*)	****)	*)	*)	*)	*)
175,00	188,81									
180,00	199,76	▪	▪	▪	▪	▪	▪	▪	▪	▪
184,00	208,73							▪		
185,00	211,01									
190,00	222,57				▪				▪	
194,00	232,04							▪		
200,00	246,62		▪	▪	▪	▪	▪		▪	▪
210,00	271,89			▪	▪			▪	▪	
220,00	298,40			▪	▪				▪	
224,00	309,35							▪		
225,00	312,12		▪	▪						▪
228,60	322,19									▪
230,00	326,15			▪	▪				▪	
240,00	355,13			▪	▪				▪	
250,00	385,34		▪	▪	▪				▪	▪
255,00	400,90							▪		
260,00	416,78			▪	▪				▪	
270,00	449,46				▪				▪	
275,00	466,26		▪							▪
280,00	483,37			▪	▪				▪	
290,00	518,51				▪				▪	
300,00	554,88		▪	▪	▪				▪	▪
310,00	592,49							▪	▪	
320,00	631,33								▪	
325,00	651,22		▪							
330,00	671,41			▪					▪	
340,00	712,72								▪	
350,00	755,26		▪	▪	▪				▪	▪
360,00	799,03								▪	
370,00	844,04							▪	▪	
375,00	867,01		▪							
380,00	890,28								▪	
390,00	937,75								▪	
400,00	986,46		▪		▪				▪	▪
425,00	1.113,62		▪						▪	
450,00	1.248,49		▪						▪	▪
475,00	1.391,06								▪	
500,00	1.541,34		▪						▪	▪
525,00	1.699,33									

*/**/**/**** finishes see page 9

	highly corrosion resistant				heat resistant/high creep resistant								
	grade	1.4439	1.4529	1.4539	1.4713	1.4742	1.4762	1.4828	1.4841	1.4845	1.4876	1.4878	1.4923
	AISI	317 LMN	N08926	904L			446	309	314	310S	Alloy 800H	321H	
mm	kg/m	*)	*)	*)	***)	***)	***)	*)	*)	*)	*)	*)	**)
175,00	188,81									▪		▪	
180,00	199,76	▪		▪				▪	▪			▪	▪
184,00	208,73												
185,00	211,01		▪									▪	
190,00	222,57							▪				▪	▪
194,00	232,04												
200,00	246,62		▪	▪				▪	▪	▪		▪	▪
210,00	271,89	▪		▪				▪	▪			▪	
220,00	298,40			▪								▪	▪
224,00	309,35												
225,00	312,12							▪	▪				
228,60	322,19												
230,00	326,15											▪	▪
240,00	355,13			▪								▪	▪
250,00	385,34			▪				▪	▪			▪	▪
255,00	400,90												
260,00	416,78											▪	
270,00	449,46											▪	
275,00	466,26			▪					▪				
280,00	483,37											▪	
290,00	518,51											▪	▪
300,00	554,88			▪					▪			▪	▪
310,00	592,49											▪	
320,00	631,33												
325,00	651,22											▪	
330,00	671,41												
340,00	712,72											▪	
350,00	755,26			▪								▪	
360,00	799,03											▪	
370,00	844,04												
375,00	867,01											▪	
380,00	890,28												
390,00	937,75												
400,00	986,46			▪								▪	
425,00	1.113,62											▪	
450,00	1.248,49											▪	
475,00	1.391,06											▪	
500,00	1.541,34											▪	
525,00	1.699,33											▪	

*/**/**/**** finishes see page 9



4541

341453

SBR

SQUARE AND HEXAGONAL BARS

hot-formed

24 - 25

A variety of square-edged products

Due to its wide area of application, square and hexagonal bars are attractive to different industries. Our range of square and hexagonal bars is permanently available ex stock for you and upon request it is cut to the appropriate length.

Square and hexagonal bars | hot-formed

in random lengths of 4 to 6 m

- * solution annealed, pickled, partly in non-descaled finish
- ** hardened and tempered, pickled, partly in non-descaled finish

Dimension standards

DIN EN 10059 (square bars)

DIN EN 10061 (hexagonal bars)

or DIN 7527, sheet 6

Test certificates

DIN EN 10204 3.1 or works' test certificate 2.1/2.2

*/** Classification see page 24 - 25

stainless										
	grade	1.4057	1.4104	1.4301	1.4305	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	431	430F	304	303	304L	316	316L	321	316Ti
mm	kg/m	**)	**))	*)	*)	*)	*)	*)	*)	*)
10,00	0,79									
15,00	1,77			▪		▪	▪	▪		▪
20,00	3,14			▪		▪	▪	▪		▪
25,00	4,91			▪		▪	▪	▪	▪	▪
30,00	7,07			▪		▪	▪	▪	▪	▪
32,00	8,04			▪		▪				
35,00	9,62			▪		▪	▪	▪	▪	▪
40,00	12,56	▪		▪	▪	▪	▪	▪	▪	▪
45,00	15,90			▪		▪	▪	▪	▪	▪
50,00	19,63	▪		▪	▪	▪	▪	▪	▪	▪
55,00	23,75			▪		▪				▪
60,00	28,26	▪		▪	▪	▪	▪	▪	▪	▪
65,00	33,17			▪		▪			▪	▪
70,00	38,47			▪		▪	▪	▪	▪	▪
75,00	44,16			▪		▪				▪
80,00	50,24	▪	▪	▪	▪	▪	▪	▪	▪	▪
85,00	56,72			▪		▪				▪
90,00	63,59	▪		▪	▪	▪	▪	▪	▪	▪
100,00	78,50	▪		▪	▪	▪	▪	▪	▪	▪
110,00	94,99				▪		▪	▪		▪
120,00	113,04			▪	▪	▪	▪	▪	▪	▪
135,00	143,07								▪	
140,00	153,86			▪		▪				▪
150,00	176,63			▪	▪	▪	▪	▪	▪	▪
160,00	200,96									▪
180,00	254,34			▪		▪				▪
200,00	314,00			▪		▪				▪

*/**) finishes see page 23

mm	stainless		highly corrosion resistant	Duplex	heat resistant	
	grade	1.4435	1.4539	1.4462	1.4841	1.4878
	AISI/UNS	316L	904L	S31803	314	321H
	kg/m	*)	*)	*)	*)	*)
10,00	0,79	▪			▪	
12,00	1,13				▪	
15,00	1,77		▪		▪	
20,00	3,14	▪		▪	▪	
25,00	4,91			▪	▪	▪
30,00	7,07	▪		▪	▪	▪
35,00	9,62					▪
40,00	12,56	▪	▪	▪	▪	▪
45,00	15,90					▪
50,00	19,63	▪	▪	▪	▪	▪
60,00	28,26	▪	▪		▪	▪
65,00	33,17					▪
70,00	38,47					▪
80,00	50,24	▪			▪	▪
90,00	63,59					▪
100,00	78,50					▪
120,00	113,04					▪
135,00	143,07					▪
150,00	176,63					▪

Hexagonal bars | hot-formed

mm	stainless			
	grade	1.4301	1.4307	1.4571
	AISI	304	304L	316Ti
	kg/m	*)	*)	*)
70,00	33,31	▪	▪	▪
75,00	38,24			▪
80,00	43,51			▪
85,00	49,12			▪
90,00	55,07			▪

*/** finishes see page 23



FLAT BARS

hot-formed or
slit from sheet or strip

28 - 43

Flat and flexible

The use of flat bars is variable. It is being cold-formed or cut from sheet or strip. Upon request it may be refined. Grade and finish may be adapted to your individual need.

Flat bars | hot-formed or slit from sheet or strip

in random lengths of 4 to 6.2 m

- * solution annealed, pickled (slit flat bars before cutting), some in non-descaled finish
- ** hardened and tempered, pickled, partly in non-descaled finish
- *** annealed, in non-descaled finish

Dimension standards

DIN EN 10058 for hot-formed products

For slit products and material thicknesses <5 mm, the above mentioned standard goes only for width and thickness tolerances.

Test certificates

DIN EN 10204 3.1 or works' test certificate 2.1/2.2

*/**/** Classification see page 28 - 43

mm	stainless							
	grade	1.4057	1.4301	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	431	304	304L	316	316L	321	316Ti
kg/m		**)	*)	*)	*)	*)	*)	*)
10 x 5	0,39		▪	▪				▪
10 x 6	0,47		▪	▪				
12 x 3	0,28		▪	▪				
12 x 4	0,38		▪	▪				
12 x 5	0,47		▪	▪				
12 x 6	0,57		▪	▪				▪
12 x 8	0,75							▪
12 x 10	0,94		▪	▪				
15 x 3	0,35		▪	▪				
15 x 4	0,47		▪	▪				
15 x 5	0,59		▪	▪				▪
15 x 6	0,71		▪	▪				▪
15 x 8	0,94		▪	▪				▪
15 x 10	1,18		▪	▪				▪
20 x 3	0,47		▪	▪				▪
20 x 4	0,63		▪	▪				▪
20 x 5	0,79		▪	▪	▪	▪	▪	▪
20 x 6	0,94		▪	▪	▪	▪	▪	▪
20 x 8	1,26		▪	▪	▪	▪	▪	▪
20 x 10	1,57		▪	▪	▪	▪	▪	▪
20 x 12	1,88		▪	▪	▪	▪	▪	▪
20 x 15	2,36		▪	▪	▪	▪	▪	▪
25 x 3	0,59		▪	▪				
25 x 4	0,79		▪	▪				▪
25 x 5	0,98		▪	▪	▪	▪	▪	▪
25 x 6	1,18		▪	▪	▪	▪	▪	▪
25 x 8	1,57		▪	▪	▪	▪	▪	▪
25 x 10	1,96		▪	▪	▪	▪	▪	▪
25 x 12	2,36		▪	▪	▪	▪	▪	▪
25 x 15	2,94		▪	▪	▪	▪	▪	▪
25 x 20	3,93		▪	▪	▪	▪	▪	▪
30 x 3	0,71		▪	▪				
30 x 4	0,94		▪	▪				▪
30 x 5	1,18		▪	▪	▪	▪	▪	▪
30 x 6	1,41		▪	▪	▪	▪	▪	▪
30 x 8	1,88		▪	▪	▪	▪	▪	▪
30 x 10	2,36		▪	▪	▪	▪	▪	▪
30 x 12	2,83		▪	▪	▪	▪	▪	▪
30 x 15	3,53		▪	▪	▪	▪	▪	▪

*/**/***/ finishes see page 27

mm	stainless							
	grade	1.4057	1.4301	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	431	304	304L	316	316L	321	316Ti
kg/m	kg/m	**)	*)	*)	*)	*)	*)	*)
30 x 20	4,71	▪	▪	▪	▪	▪	▪	▪
30 x 25	5,89		▪	▪	▪	▪	▪	▪
35 x 3	0,82		▪	▪				
35 x 4	1,10		▪	▪				
35 x 5	1,37		▪	▪	▪	▪		▪
35 x 6	1,65		▪	▪	▪	▪	▪	▪
35 x 8	2,20		▪	▪	▪	▪	▪	▪
35 x 10	2,75		▪	▪	▪	▪	▪	▪
35 x 12	3,30		▪	▪	▪	▪		▪
35 x 15	4,12		▪	▪	▪	▪	▪	▪
35 x 20	5,50		▪	▪	▪	▪	▪	▪
35 x 25	6,87		▪	▪	▪	▪	▪	▪
35 x 30	8,24		▪	▪				▪
40 x 4	1,26		▪	▪	▪	▪		▪
40 x 5	1,57		▪	▪	▪	▪	▪	▪
40 x 6	1,88		▪	▪	▪	▪	▪	▪
40 x 8	2,51		▪	▪	▪	▪	▪	▪
40 x 10	3,14		▪	▪	▪	▪	▪	▪
40 x 12	3,77		▪	▪	▪	▪	▪	▪
40 x 15	4,71		▪	▪	▪	▪	▪	▪
40 x 20	6,28	▪	▪	▪	▪	▪	▪	▪
40 x 25	7,85		▪	▪	▪	▪	▪	▪
40 x 30	9,42	▪	▪	▪	▪	▪	▪	▪
40 x 35	10,99		▪	▪				▪
45 x 5	1,77		▪	▪				
45 x 6	2,12		▪	▪	▪	▪		▪
45 x 8	2,83		▪	▪			▪	▪
45 x 10	3,53		▪	▪	▪	▪		▪
45 x 12	4,24		▪	▪				▪
45 x 15	5,30		▪	▪				▪
45 x 20	7,07		▪	▪			▪	▪
45 x 25	8,83		▪	▪				▪
45 x 30	10,60		▪	▪				▪
45 x 35	12,36							▪
45 x 40	14,13							▪
50 x 4	1,57		▪	▪				
50 x 5	1,96		▪	▪	▪	▪	▪	▪
50 x 6	2,36		▪	▪	▪	▪	▪	▪
50 x 8	3,14	▪	▪	▪	▪	▪	▪	▪

*/**/***/ finishes see page 27

mm	stainless							
	grade	1.4057	1.4301	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	431	304	304L	316	316L	321	316Ti
kg/m	**)	*)	*)	*)	*)	*)	*)	*)
50 x 10	3,93	▪	▪	▪	▪	▪	▪	▪
50 x 12	4,71		▪	▪	▪	▪	▪	▪
50 x 15	5,89		▪	▪	▪	▪	▪	▪
50 x 20	7,85	▪	▪	▪	▪	▪	▪	▪
50 x 25	9,81		▪	▪	▪	▪	▪	▪
50 x 30	11,78	▪	▪	▪	▪	▪	▪	▪
50 x 35	13,74		▪	▪	▪	▪	▪	▪
50 x 40	15,70		▪	▪	▪	▪	▪	▪
50 x 45	17,66							▪
55 x 8	3,45		▪	▪				
55 x 10	4,32		▪	▪				▪
55 x 12	5,18							
55 x 15	6,48		▪	▪			▪	▪
55 x 20	8,64		▪	▪				▪
55 x 25	10,79		▪	▪				▪
55 x 30	12,95		▪	▪				▪
60 x 4	1,88		▪	▪				
60 x 5	2,36		▪	▪	▪	▪	▪	▪
60 x 6	2,83		▪	▪	▪	▪	▪	▪
60 x 8	3,77		▪	▪	▪	▪	▪	▪
60 x 10	4,71		▪	▪	▪	▪	▪	▪
60 x 12	5,65		▪	▪	▪	▪	▪	▪
60 x 15	7,07		▪	▪	▪	▪	▪	▪
60 x 20	9,42	▪	▪	▪	▪	▪	▪	▪
60 x 25	11,78		▪	▪	▪	▪	▪	▪
60 x 30	14,13		▪	▪	▪	▪	▪	▪
60 x 35	16,49		▪	▪	▪	▪	▪	▪
60 x 40	18,84		▪	▪	▪	▪	▪	▪
60 x 45	21,20		▪	▪				
60 x 50	23,55		▪	▪	▪	▪	▪	▪
65 x 8	4,08		▪	▪				
65 x 10	5,10		▪	▪				
65 x 12	6,12		▪	▪				▪
65 x 15	7,65		▪	▪			▪	▪
65 x 20	10,21		▪	▪				▪
65 x 25	12,76		▪	▪				▪
65 x 30	15,31		▪	▪				
65 x 35	17,86		▪	▪				▪
65 x 40	20,41		▪	▪				

*/**/** finishes see page 27

mm	stainless							
	grade	1.4057	1.4301	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	431	304	304L	316	316L	321	316Ti
kg/m		**)	*)	*)	*)	*)	*)	*)
70 x 5	2,75		▪	▪				▪
70 x 6	3,30		▪	▪				▪
70 x 8	4,40		▪	▪	▪	▪	▪	▪
70 x 10	5,50		▪	▪	▪	▪	▪	▪
70 x 12	6,59		▪	▪	▪	▪	▪	▪
70 x 15	8,24		▪	▪	▪	▪	▪	▪
70 x 20	10,99		▪	▪	▪	▪	▪	▪
70 x 25	13,74		▪	▪	▪	▪	▪	▪
70 x 30	16,49		▪	▪	▪	▪	▪	▪
70 x 35	19,23		▪	▪	▪	▪	▪	▪
70 x 40	21,98		▪	▪	▪	▪	▪	▪
70 x 45	24,73		▪	▪	▪	▪		
70 x 50	27,48		▪	▪	▪	▪	▪	▪
70 x 60	32,97		▪	▪	▪	▪		▪
75 x 10	5,89		▪	▪				▪
75 x 12	7,07		▪	▪				▪
75 x 15	8,83		▪	▪			▪	▪
75 x 20	11,78		▪	▪				▪
75 x 25	14,72		▪	▪			▪	
75 x 30	17,66		▪	▪				
75 x 35	20,61		▪	▪				
75 x 50	29,44		▪	▪				
80 x 5	3,14		▪	▪				
80 x 6	3,77		▪	▪	▪	▪		▪
80 x 8	5,02		▪	▪	▪	▪	▪	▪
80 x 10	6,28		▪	▪	▪	▪	▪	▪
80 x 12	7,54		▪	▪	▪	▪	▪	▪
80 x 15	9,42		▪	▪	▪	▪	▪	▪
80 x 20	12,56	▪	▪	▪	▪	▪	▪	▪
80 x 25	15,70		▪	▪	▪	▪	▪	▪
80 x 30	18,84		▪	▪	▪	▪	▪	▪
80 x 35	21,98		▪	▪	▪	▪	▪	▪
80 x 40	25,12		▪	▪	▪	▪	▪	▪
80 x 45	28,26		▪	▪				▪
80 x 50	31,40		▪	▪	▪	▪	▪	▪
80 x 60	37,68		▪	▪	▪	▪		▪
90 x 6	4,24		▪	▪				
90 x 8	5,65		▪	▪				
90 x 10	7,07		▪	▪	▪	▪	▪	▪

*/**/***/ finishes see page 27

mm	stainless							
	grade	1.4057	1.4301	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	431	304	304L	316	316L	321	316Ti
kg/m	**)	*)	*)	*)	*)	*)	*)	*)
90 x 12	8,48		▪	▪			▪	▪
90 x 15	10,60		▪	▪	▪	▪	▪	▪
90 x 20	14,13		▪	▪	▪	▪	▪	▪
90 x 25	17,66		▪	▪	▪	▪	▪	▪
90 x 30	21,20		▪	▪	▪	▪		▪
90 x 35	24,73		▪	▪	▪	▪		▪
90 x 40	28,26		▪	▪	▪	▪	▪	▪
90 x 45	31,79		▪	▪				▪
90 x 50	35,33		▪	▪	▪	▪	▪	▪
90 x 60	42,39		▪	▪	▪	▪	▪	▪
90 x 70	49,46						▪	
100 x 5	3,93		▪	▪		▪		
100 x 6	4,71		▪	▪		▪		▪
100 x 8	6,28		▪	▪	▪	▪	▪	▪
100 x 10	7,85		▪	▪	▪	▪	▪	▪
100 x 12	9,42		▪	▪	▪	▪	▪	▪
100 x 15	11,78		▪	▪	▪	▪	▪	▪
100 x 20	15,70	▪	▪	▪	▪	▪	▪	▪
100 x 25	19,63		▪	▪	▪	▪		▪
100 x 30	23,55	▪	▪	▪	▪	▪	▪	▪
100 x 35	27,48		▪	▪	▪	▪		▪
100 x 40	31,40		▪	▪	▪	▪	▪	▪
100 x 45	35,33		▪	▪				▪
100 x 50	39,25		▪	▪	▪	▪	▪	▪
100 x 60	47,10		▪	▪	▪	▪	▪	▪
100 x 70	54,95		▪	▪			▪	▪
100 x 80	62,80		▪	▪				
110 x 8	6,91		▪	▪				▪
110 x 10	8,64		▪	▪				▪
110 x 12	10,36		▪	▪				▪
110 x 15	12,95		▪	▪				▪
110 x 20	17,27		▪	▪				▪
110 x 25	21,59		▪	▪				▪
110 x 30	25,91		▪	▪				▪
110 x 40	34,54		▪	▪				
110 x 50	43,18		▪	▪				
110 x 60	51,81		▪	▪				
120 x 6	5,65		▪	▪				
120 x 8	7,54		▪	▪	▪	▪		▪

*/**/** finishes see page 27

mm	stainless							
	grade	1.4057	1.4301	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	431	304	304L	316	316L	321	316Ti
kg/m		**))	*))	*))	*))	*))	*))	*))
120 x 10	9,42		▪	▪	▪	▪	▪	▪
120 x 12	11,30		▪	▪	▪	▪	▪	▪
120 x 15	14,13		▪	▪	▪	▪		▪
120 x 20	18,84		▪	▪	▪	▪	▪	▪
120 x 25	23,55		▪	▪	▪	▪	▪	▪
120 x 30	28,26		▪	▪	▪	▪	▪	▪
120 x 40	37,68		▪	▪	▪	▪	▪	▪
120 x 50	47,10		▪	▪	▪	▪	▪	▪
120 x 60	56,52		▪	▪	▪	▪	▪	▪
120 x 70	65,94		▪	▪			▪	▪
130 x 8	8,16		▪	▪				
130 x 10	10,21		▪	▪	▪	▪		▪
130 x 12	12,25		▪	▪				▪
130 x 15	15,31		▪	▪	▪	▪		▪
130 x 20	20,41		▪	▪	▪	▪		▪
130 x 25	25,51		▪	▪	▪	▪	▪	▪
130 x 30	30,62		▪	▪	▪	▪		▪
130 x 40	40,82		▪	▪	▪	▪	▪	▪
130 x 50	51,03		▪	▪				▪
130 x 60	61,23							▪
130 x 70	71,44							▪
140 x 10	10,99		▪	▪	▪	▪		▪
140 x 12	13,19		▪	▪	▪	▪		▪
140 x 15	16,49		▪	▪	▪	▪		▪
140 x 20	21,98		▪	▪	▪	▪		▪
140 x 25	27,48		▪	▪				▪
140 x 30	32,97		▪	▪	▪	▪		▪
140 x 40	43,96		▪	▪	▪	▪		
140 x 50	54,95		▪	▪				▪
140 x 60	65,94							▪
150 x 8	9,42		▪	▪				
150 x 10	11,78		▪	▪	▪	▪	▪	▪
150 x 12	14,13		▪	▪	▪	▪	▪	▪
150 x 15	17,66		▪	▪	▪	▪		▪
150 x 20	23,55		▪	▪	▪	▪	▪	▪
150 x 25	29,44		▪	▪	▪	▪	▪	▪
150 x 30	35,33		▪	▪	▪	▪		▪
150 x 40	47,10		▪	▪	▪	▪		▪
150 x 50	58,88		▪	▪	▪	▪		▪

*/**/***/ finishes see page 27

mm	stainless							
	grade	1.4057	1.4301	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	431	304	304L	316	316L	321	316Ti
kg/m	**)	*)	*)	*)	*)	*)	*)	*)
150 x 60	70,65		▪	▪				
160 x 15	18,84		▪	▪	▪	▪		
160 x 20	25,12		▪	▪	▪	▪		
160 x 25	31,40		▪	▪	▪	▪		
160 x 30	37,68		▪	▪	▪	▪		
160 x 40	50,24		▪	▪	▪	▪		
180 x 10	14,13		▪	▪				
180 x 12	16,96		▪	▪	▪	▪		
180 x 15	21,20		▪	▪	▪	▪		
180 x 20	28,26		▪	▪	▪	▪		
180 x 25	35,33		▪	▪	▪	▪		
180 x 30	42,39		▪	▪	▪	▪		
180 x 40	56,52		▪	▪	▪	▪		
180 x 60	84,78		▪	▪				
200 x 10	15,70		▪	▪				
200 x 15	23,55		▪	▪	▪	▪		
200 x 20	31,40		▪	▪	▪	▪		
200 x 30	47,10		▪	▪	▪	▪		
200 x 40	62,80		▪	▪	▪	▪		

*/**/** finishes see page 27

mm	Duplex		heat resistant			
	grade	1.4462	1.4713	1.4828	1.4841	1.4878
	AISI	S31803		309	314	321H
	kg/m	*)	***)	*)	*)	*)
15 x 5	0,59				▪	
20 x 4	0,63				▪	
20 x 5	0,79					▪
20 x 6	0,94				▪	▪
20 x 8	1,26			▪	▪	▪
20 x 10	1,57			▪	▪	▪
20 x 12	1,88					▪
20 x 15	2,36					▪
25 x 5	0,98				▪	▪
25 x 6	1,18					▪
25 x 8	1,57				▪	▪
25 x 10	1,96				▪	▪
25 x 12	2,36					▪
25 x 15	2,94					▪
25 x 20	3,93					▪
30 x 5	1,18	▪	▪	▪	▪	▪
30 x 6	1,41	▪		▪	▪	▪
30 x 8	1,88	▪	▪	▪	▪	▪
30 x 10	2,36	▪		▪	▪	▪
30 x 12	2,83	▪			▪	▪
30 x 15	3,53	▪		▪	▪	▪
30 x 20	4,71	▪		▪	▪	▪
30 x 25	5,89	▪				▪
35 x 5	1,37				▪	
35 x 6	1,65					▪
35 x 8	2,20					▪
35 x 10	2,75					▪
35 x 15	4,12					▪
35 x 20	5,50	▪				▪
35 x 25	6,87	▪				▪
40 x 5	1,57		▪	▪	▪	▪
40 x 6	1,88	▪	▪	▪	▪	▪
40 x 8	2,51	▪		▪	▪	▪
40 x 10	3,14	▪	▪	▪	▪	▪
40 x 12	3,77	▪			▪	▪
40 x 15	4,71	▪			▪	▪
40 x 20	6,28	▪		▪	▪	▪
40 x 25	7,85	▪				▪
40 x 30	9,42	▪				▪

*/**/** finishes see page 27

mm	Duplex		heat resistant			
	grade	1.4462	1.4713	1.4828	1.4841	1.4878
	AISI	S31803		309	314	321H
	kg/m	*)	***)	*)	*)	*)
45 x 8	2,83					▪
45 x 20	7,07					▪
50 x 5	1,96	▪		▪	▪	▪
50 x 6	2,36	▪	▪	▪	▪	▪
50 x 8	3,14	▪	▪	▪	▪	▪
50 x 10	3,93	▪	▪	▪	▪	▪
50 x 12	4,71	▪	▪	▪	▪	▪
50 x 15	5,89	▪	▪	▪	▪	▪
50 x 20	7,85	▪		▪	▪	▪
50 x 25	9,81	▪			▪	▪
50 x 30	11,78	▪			▪	▪
50 x 35	13,74					▪
50 x 40	15,70					▪
55 x 15	6,48					▪
60 x 5	2,36				▪	▪
60 x 6	2,83		▪	▪	▪	▪
60 x 8	3,77	▪		▪	▪	▪
60 x 10	4,71	▪		▪	▪	▪
60 x 12	5,65			▪	▪	▪
60 x 15	7,07	▪		▪	▪	▪
60 x 20	9,42	▪		▪	▪	▪
60 x 25	11,78	▪				▪
60 x 30	14,13	▪				▪
60 x 35	16,49					▪
60 x 40	18,84	▪			▪	▪
60 x 50	23,55					▪
65 x 15	7,65					▪
70 x 6	3,30				▪	
70 x 8	4,40					▪
70 x 10	5,50		▪	▪	▪	▪
70 x 12	6,59					▪
70 x 15	8,24					▪
70 x 20	10,99					▪
70 x 25	13,74					▪
70 x 30	16,49	▪				▪
70 x 35	19,23					▪
70 x 40	21,98	▪				▪
70 x 50	27,48					▪
75 x 15	8,83					▪

*/**/*** finishes see page 27

		Duplex	heat resistant				
		grade	1.4462	1.4713	1.4828	1.4841	1.4878
		AISI	S31803		309	314	321H
mm	kg/m	*)	***)	*)	*)	*)	
75 x 25	14,72					▪	
80 x 5	3,14				▪		
80 x 6	3,77				▪		
80 x 8	5,02			▪	▪	▪	
80 x 10	6,28	▪	▪	▪	▪	▪	
80 x 12	7,54				▪	▪	
80 x 15	9,42	▪		▪	▪	▪	
80 x 20	12,56	▪		▪	▪	▪	
80 x 25	15,70	▪				▪	
80 x 30	18,84	▪				▪	
80 x 35	21,98					▪	
80 x 40	25,12	▪				▪	
80 x 50	31,40	▪				▪	
90 x 10	7,07					▪	
90 x 12	8,48					▪	
90 x 15	10,60					▪	
90 x 20	14,13					▪	
90 x 25	17,66					▪	
90 x 40	28,26					▪	
90 x 50	35,33					▪	
90 x 60	42,39					▪	
90 x 70	49,46					▪	
100 x 8	6,28	▪		▪	▪	▪	
100 x 10	7,85	▪		▪	▪		
100 x 12	9,42	▪			▪	▪	
100 x 15	11,78	▪		▪	▪	▪	
100 x 20	15,70	▪		▪	▪	▪	
100 x 30	23,55					▪	
100 x 40	31,40					▪	
100 x 50	39,25					▪	
100 x 60	47,10					▪	
100 x 70	54,95					▪	
110 x 10	8,64					▪	
120 x 10	9,42					▪	
120 x 12	11,30					▪	
120 x 20	18,84					▪	
120 x 25	23,55					▪	
120 x 30	28,26					▪	
120 x 40	37,68					▪	

*/**/** finishes see page 27

mm	Duplex		heat resistant			
	grade	1.4462	1.4713	1.4828	1.4841	1.4878
	AISI	S31803		309	314	321H
	kg/m	*)	***)	*)	*)	*)
120 x 50	47,10					▪
120 x 60	56,52					▪
120 x 70	65,94					▪
130 x 25	25,51					▪
130 x 40	40,82					▪
150 x 10	11,78					▪
150 x 12	14,13					▪
150 x 20	23,55					▪
150 x 25	29,44					▪

*/**/*** finishes see page 27



Flat bars | slit from sheet or strip

mm	stainless						
	grade	1.4301	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	304	304L	316	316L	321	316Ti
kg/m	*)	*)	*)	*)	*)	*)	*)
10 x 3	0,24	▪	▪				▪
10 x 4	0,31	▪	▪				
10 x 5	0,39	▪	▪				
12 x 3	0,28	▪	▪				▪
12 x 4	0,38	▪	▪				
12 x 5	0,47						
15 x 3	0,35	▪	▪				▪
15 x 4	0,47	▪	▪				▪
15 x 5	0,59	▪	▪			▪	▪
15 x 6	0,71	▪	▪				
20 x 2	0,31	▪	▪				
20 x 3	0,47	▪	▪	▪	▪	▪	▪
20 x 4	0,63	▪	▪	▪	▪	▪	▪
20 x 5	0,79	▪	▪	▪	▪	▪	▪
20 x 6	0,94	▪	▪	▪	▪		▪
20 x 8	1,26	▪	▪				▪
20 x 10	1,57	▪	▪				▪
25 x 2	0,39	▪	▪				
25 x 3	0,59	▪	▪	▪	▪	▪	▪
25 x 4	0,79	▪	▪	▪	▪	▪	▪
25 x 5	0,98	▪	▪	▪	▪	▪	▪
25 x 6	1,18	▪	▪	▪	▪	▪	▪
25 x 8	1,57	▪	▪	▪	▪	▪	▪
30 x 2	0,47	▪	▪				
30 x 3	0,71	▪	▪	▪	▪	▪	▪
30 x 4	0,94	▪	▪	▪	▪	▪	▪
30 x 5	1,18	▪	▪	▪	▪	▪	▪
30 x 6	1,41	▪	▪	▪	▪	▪	▪
30 x 8	1,88	▪	▪	▪	▪	▪	▪
30 x 10	2,36	▪	▪	▪	▪	▪	▪
35 x 3	0,82	▪	▪				▪
35 x 4	1,10	▪	▪				▪
35 x 5	1,37	▪	▪			▪	▪
35 x 6	1,65	▪	▪			▪	▪
35 x 8	2,20	▪	▪				▪
35 x 10	2,75	▪	▪				▪
40 x 2	0,63	▪	▪				
40 x 3	0,94	▪	▪	▪	▪		▪
40 x 4	1,26	▪	▪	▪	▪	▪	▪

*/**/** finishes see page 27

mm	stainless						
	grade	1.4301	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	304	304L	316	316L	321	316Ti
kg/m	*)	*)	*)	*)	*)	*)	*)
40 x 5	1,57	▪	▪	▪	▪	▪	▪
40 x 6	1,88	▪	▪	▪	▪	▪	▪
40 x 8	2,51	▪	▪	▪	▪	▪	▪
40 x 10	3,14	▪	▪	▪	▪	▪	▪
40 x 12	3,77	▪	▪			▪	▪
45 x 3	1,06	▪	▪				
45 x 4	1,41	▪	▪				▪
45 x 5	1,77	▪	▪				▪
45 x 6	2,12	▪	▪				
45 x 8	2,83	▪	▪				▪
45 x 10	3,53	▪	▪				▪
45 x 12	4,24	▪	▪				
50 x 3	1,18	▪	▪				▪
50 x 4	1,57	▪	▪	▪	▪	▪	▪
50 x 5	1,96	▪	▪	▪	▪	▪	▪
50 x 6	2,36	▪	▪	▪	▪	▪	▪
50 x 8	3,14	▪	▪	▪	▪	▪	▪
50 x 10	3,93	▪	▪	▪	▪	▪	▪
50 x 12	4,71	▪	▪	▪	▪	▪	▪
55 x 5	2,16	▪	▪				
55 x 6	2,59	▪	▪				
55 x 8	3,45	▪	▪				
55 x 10	4,32	▪	▪				
60 x 3	1,41	▪	▪				▪
60 x 4	1,88	▪	▪			▪	▪
60 x 5	2,36	▪	▪	▪	▪	▪	▪
60 x 6	2,83	▪	▪	▪	▪	▪	▪
60 x 8	3,77	▪	▪	▪	▪	▪	▪
60 x 10	4,71	▪	▪	▪	▪	▪	▪
60 x 12	5,65	▪	▪			▪	▪
65 x 5	2,55	▪	▪				
65 x 8	4,08	▪	▪				
65 x 12	6,12	▪	▪				
70 x 3	1,65	▪	▪				
70 x 4	2,20	▪	▪				▪
70 x 5	2,75	▪	▪	▪	▪	▪	▪
70 x 6	3,30	▪	▪			▪	▪
70 x 8	4,40	▪	▪	▪	▪	▪	▪
70 x 10	5,50	▪	▪	▪	▪	▪	▪

*/**/** finishes see page 27

Flat bars | slit from sheet or strip

mm	stainless						
	grade	1.4301	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	304	304L	316	316L	321	316Ti
	kg/m	*)	*)	*)	*)	*)	*)
70 x 12	6,59	▪	▪				▪
75 x 5	2,94	▪	▪				
75 x 6	3,53	▪	▪				
75 x 8	4,71	▪	▪				▪
75 x 10	5,89	▪	▪				
80 x 3	1,88	▪	▪				▪
80 x 4	2,51	▪	▪				▪
80 x 5	3,14	▪	▪	▪	▪	▪	▪
80 x 6	3,77	▪	▪	▪	▪	▪	▪
80 x 8	5,02	▪	▪	▪	▪	▪	▪
80 x 10	6,28	▪	▪	▪	▪	▪	▪
80 x 12	7,54	▪	▪			▪	▪
90 x 4	2,83	▪	▪				
90 x 5	3,53	▪	▪				▪
90 x 6	4,24	▪	▪				▪
90 x 8	5,65	▪	▪				▪
90 x 10	7,07	▪	▪				▪
90 x 12	8,48	▪	▪				▪
100 x 3	2,36	▪	▪				▪
100 x 4	3,14	▪	▪				▪
100 x 5	3,93	▪	▪	▪	▪	▪	▪
100 x 6	4,71	▪	▪	▪	▪	▪	▪
100 x 8	6,28	▪	▪	▪	▪	▪	▪
100 x 10	7,85	▪	▪	▪	▪	▪	▪
100 x 12	9,42	▪	▪			▪	▪
110 x 5	4,32	▪	▪				
110 x 6	5,18	▪	▪				▪
110 x 8	6,91	▪	▪				▪
110 x 10	8,64	▪	▪				▪
110 x 12	10,36	▪	▪				▪
120 x 4	3,77	▪	▪				
120 x 5	4,71	▪	▪				▪
120 x 6	5,65	▪	▪	▪	▪		▪
120 x 8	7,54	▪	▪	▪	▪		▪
120 x 10	9,42	▪	▪	▪	▪		▪
120 x 12	11,30	▪	▪				▪
130 x 6	6,12	▪	▪				▪
130 x 8	8,16	▪	▪				▪
130 x 10	10,21	▪	▪				▪

*/**/** finishes see page 27

mm	stainless						
	grade	1.4301	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	304	304L	316	316L	321	316Ti
kg/m	kg/m	*)	*)	*)	*)	*)	*)
130 x 12	12,25	▪	▪				▪
140 x 5	5,50	▪	▪				
140 x 6	6,59	▪	▪				▪
140 x 8	8,79	▪	▪				▪
140 x 10	10,99	▪	▪				▪
140 x 12	13,19	▪	▪				▪
150 x 5	5,89	▪	▪				▪
150 x 6	7,07	▪	▪				▪
150 x 8	9,42	▪	▪				▪
150 x 10	11,78	▪	▪	▪	▪		▪
150 x 12	14,13	▪	▪				▪
160 x 5	6,28	▪	▪				
160 x 6	7,54	▪	▪				
160 x 8	10,05	▪	▪				▪
160 x 10	12,56	▪	▪				▪
160 x 12	15,07	▪	▪				▪
160 x 15	18,84						▪
180 x 6	8,48	▪	▪				
180 x 8	11,30	▪	▪				▪
180 x 10	14,13	▪	▪				▪
180 x 12	16,96	▪	▪				▪
180 x 15	21,20						▪
200 x 5	7,85	▪	▪				▪
200 x 6	9,42	▪	▪				▪
200 x 8	12,56	▪	▪				▪
200 x 10	15,70	▪	▪				▪
200 x 12	18,84	▪	▪				▪
200 x 15	23,55						▪
200 x 20	31,40						▪
220 x 8	13,82	▪	▪				
250 x 6	11,78	▪	▪				
250 x 8	15,70	▪	▪				▪
250 x 10	19,63	▪	▪				▪
250 x 12	23,55	▪	▪				▪
250 x 15	29,44	▪	▪				▪
300 x 6	14,13	▪	▪				
300 x 8	18,84	▪	▪				
300 x 10	23,55	▪	▪				
300 x 12	28,26	▪	▪				

*/**/** finishes see page 27



KEY STEEL

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Precision has priority

Key steel is always being used when precision is required, so e.g. the machine and plant construction industry uses it in the production of shims and feather keys. Just let us know what you need – we have the right solution for you - available ex stock.

Key steel

in random lengths of 3 to 3.2 m

* solution annealed, sharp-edged

Dimension standards

DIN 6880

Test certificates

DIN EN 10204 3.1

* Classification see page 46

Key steel | flat

mm	stainless	
	grade	1.4571
	AISI	316Ti
	kg/m	*)
5 x 3	0,12	▪
6 x 4	0,19	▪
8 x 5	0,31	▪
8 x 6	0,38	▪
8 x 7	0,44	▪
10 x 6	0,47	▪
10 x 8	0,63	▪
12 x 6	0,57	▪
12 x 8	0,75	▪
12 x 10	0,94	▪
14 x 6	0,66	▪
14 x 9	0,99	▪
16 x 10	1,26	▪
18 x 11	1,55	▪
20 x 12	1,88	▪
22 x 14	2,42	▪
25 x 14	2,75	▪
28 x 16	3,52	▪
32 x 18	4,52	▪
36 x 20	5,65	▪
40 x 22	6,91	▪
45 x 25	8,83	▪

Key steel | square

mm	stainless	
	grade	1.4571
	AISI	316Ti
	kg/m	*)
3	0,07	▪
4	0,13	▪
5	0,20	▪
6	0,28	▪

* finishes see page 45





ROUND BARS

cold-formed

50 - 55

Tailor-made solutions

Extreme stability and durability – these are the features of cold-formed round bars. Our quality management ensures exact measures and the respectation of quality standards for surface refinement.

Round bars | cold-formed

in random lengths of approx. 3 m, partly in lengths of 6 m

- * solution annealed
- ** hardened and tempered
- *** annealed
- **** solution annealed in delivery condition, including notes on mechanical properties when precipitation-hardened

Dimension standards

DIN EN 10278 h6, h8 or h9

Test certificates

DIN EN 10204 3.1 or works' test certificate 2.1/2.2

*/**/***/**** Classification see page 50 - 54

stainless							
mm	grade	1.4021	1.4034	1.4057	1.4104	1.4112	1.4122
	AISI	420	420	431	430F	440B	440B
	kg/m	**)	***)	**)	***)	***)	**)
2,00	0,02						
2,50	0,04						
3,00	0,06				▪		
3,50	0,08						
4,00	0,10	▪			▪		
4,50	0,12						
5,00	0,15		▪	▪	▪	▪	▪
5,50	0,19						
6,00	0,22	▪	▪	▪	▪	▪	▪
6,50	0,26						
7,00	0,30		▪		▪	▪	
7,50	0,35						
8,00	0,39	▪	▪	▪	▪	▪	▪
9,00	0,50	▪			▪		
9,50	0,56						
10,00	0,62	▪	▪	▪	▪	▪	▪
11,00	0,75		▪		▪		
12,00	0,89	▪	▪	▪	▪ ¹⁾	▪	▪
13,00	1,04	▪			▪		▪
14,00	1,21	▪	▪	▪	▪ ¹⁾	▪	▪
15,00	1,39	▪	▪	▪	▪	▪	▪
16,00	1,58	▪	▪	▪	▪ ¹⁾	▪	▪
17,00	1,78			▪	▪	▪	
18,00	2,00	▪	▪	▪	▪ ¹⁾	▪	▪
19,00	2,23				▪		
19,05	2,24						
20,00	2,47	▪	▪	▪	▪ ¹⁾	▪	▪
21,00	2,72	▪		▪	▪		
22,00	2,98	▪	▪	▪	▪ ¹⁾	▪	▪
23,00	3,26				▪		
24,00	3,55	▪	▪	▪	▪		▪
25,00	3,85	▪	▪	▪	▪ ¹⁾	▪	▪
25,40	3,98						
26,00	4,17	▪	▪	▪	▪	▪	▪
27,00	4,49				▪		

¹⁾ dimensions also available in lengths of 6 m

²⁾ also available acc. to DIN EN 10278 h8

³⁾ also available acc. to DIN EN 10278 h6

⁴⁾ also available in polished finish

⁵⁾ also available in QT 650

*/**/**/**** finishes see page 49

		stainless							
		grade	1.4301	1.4305	1.4307	1.4401	1.4404	1.4541	1.4571
		AISI	304	303	304L	316	316L	321	316Ti
mm	kg/m	*)	*)	*)	*)	*)	*)	*)	
2,00	0,02	▪	▪	▪				▪	
2,50	0,04	▪	▪	▪				▪	
3,00	0,06	▪	▪	▪			▪	▪	
3,50	0,08	▪	▪	▪				▪	
4,00	0,10	▪	▪	▪	▪	▪	▪	▪	
4,50	0,12	▪	▪	▪					
5,00	0,15	▪	▪	▪	▪	▪	▪	▪	
5,50	0,19	▪	▪	▪					
6,00	0,22	▪ ¹⁾²⁾	▪	▪ ¹⁾²⁾	▪	▪	▪	▪ ¹⁾	
6,50	0,26	▪	▪	▪					
7,00	0,30	▪	▪	▪				▪	
7,50	0,35	▪		▪					
8,00	0,39	▪ ¹⁾²⁾⁴⁾	▪ ⁴⁾	▪ ¹⁾²⁾⁴⁾	▪	▪	▪	▪ ¹⁾	
9,00	0,50	▪	▪	▪			▪	▪	
9,50	0,56		▪						
10,00	0,62	▪ ¹⁾²⁾³⁾⁴⁾	▪ ²⁾⁴⁾	▪ ¹⁾²⁾³⁾⁴⁾	▪	▪	▪	▪ ¹⁾	
11,00	0,75	▪	▪	▪				▪	
12,00	0,89	▪ ¹⁾²⁾³⁾⁴⁾	▪ ²⁾⁴⁾	▪ ¹⁾²⁾³⁾⁴⁾	▪ ¹⁾	▪ ¹⁾	▪	▪ ¹⁾	
13,00	1,04	▪	▪	▪			▪	▪	
14,00	1,21	▪ ¹⁾⁴⁾	▪ ²⁾⁴⁾	▪ ¹⁾⁴⁾	▪	▪	▪	▪ ¹⁾	
15,00	1,39	▪ ¹⁾²⁾⁴⁾	▪ ⁴⁾	▪ ¹⁾²⁾⁴⁾	▪ ¹⁾	▪ ¹⁾	▪	▪ ¹⁾	
16,00	1,58	▪ ¹⁾²⁾³⁾⁴⁾	▪ ²⁾⁴⁾	▪ ¹⁾²⁾³⁾⁴⁾	▪	▪	▪	▪ ¹⁾	
17,00	1,78	▪	▪	▪	▪	▪	▪	▪	
18,00	2,00	▪ ¹⁾³⁾⁴⁾	▪ ⁴⁾	▪ ¹⁾³⁾⁴⁾	▪	▪	▪	▪ ¹⁾	
19,00	2,23	▪	▪	▪			▪	▪	
19,05	2,24								
20,00	2,47	▪ ¹⁾²⁾³⁾⁴⁾	▪ ¹⁾³⁾⁴⁾	▪ ¹⁾²⁾³⁾⁴⁾	▪ ¹⁾	▪ ¹⁾	▪	▪ ¹⁾	
21,00	2,72	▪	▪	▪				▪	
22,00	2,98	▪	▪	▪	▪	▪	▪	▪	
23,00	3,26	▪	▪	▪					
24,00	3,55	▪	▪	▪	▪	▪	▪	▪	
25,00	3,85	▪ ¹⁾²⁾³⁾	▪ ¹⁾²⁾	▪ ¹⁾²⁾³⁾	▪ ¹⁾	▪ ¹⁾	▪	▪ ¹⁾	
25,40	3,98								
26,00	4,17	▪	▪	▪	▪	▪	▪	▪	
27,00	4,49	▪	▪	▪				▪	

¹⁾ dimensions also available in lengths of 6 m

²⁾ also available acc. to DIN EN 10278 h8

³⁾ also available acc. to DIN EN 10278 h6

⁴⁾ also available in polished finish

⁵⁾ also available in QT 650

*/**/***/**** finishes see page 49

stainless							
	grade	1.4021	1.4034	1.4057	1.4104	1.4112	1.4122
	AISI	420	420	431	430F	440B	440B
mm	kg/m	**)	***)	**))	***)	***)	**))
28,00	4,83	▪	▪	▪	▪	▪	▪
29,00	5,19						
30,00	5,55	▪	▪	▪	▪ ⁵⁾	▪	▪
32,00	6,31	▪	▪	▪	▪	▪	▪
33,00	6,71				▪		
34,00	7,13				▪		
35,00	7,55	▪	▪	▪	▪ ⁵⁾	▪	▪
36,00	7,99	▪	▪	▪	▪	▪	▪
38,00	8,90	▪		▪	▪ ⁵⁾	▪	▪
40,00	9,86	▪	▪	▪	▪ ⁵⁾	▪	▪
42,00	10,88	▪	▪	▪	▪		▪
43,00	11,40						
45,00	12,48	▪	▪	▪	▪ ⁵⁾	▪	▪
46,00	13,05	▪					
48,00	14,21	▪			▪		
50,00	15,41	▪	▪	▪	▪ ⁵⁾	▪	▪
52,00	16,67				▪		
55,00	18,65	▪	▪	▪	▪ ⁵⁾	▪	▪
60,00	22,20	▪	▪	▪	▪ ⁵⁾	▪	▪
65,00	26,05	▪	▪	▪	▪ ⁵⁾	▪	
70,00	30,21	▪	▪	▪	▪	▪	▪
75,00	34,68	▪		▪	▪		
80,00	39,46	▪	▪	▪	▪ ⁵⁾	▪	▪
85,00	44,54	▪		▪	▪		
90,00	49,94	▪	▪	▪	▪		▪
95,00	55,64				▪		
100,00	61,65	▪		▪	▪		▪

¹⁾ dimensions also available in lengths of 6 m

²⁾ also available acc. to DIN EN 10278 h8

³⁾ also available acc. to DIN EN 10278 h6

⁴⁾ also available in polished finish

⁵⁾ also available in QT 650

*/**/***/**** finishes see page 49

stainless								
	grade	1.4301	1.4305	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	304	303	304L	316	316L	321	316Ti
mm	kg/m	*)	*)	*)	*)	*)	*)	*)
28,00	4,83	▪	▪	▪	▪	▪	▪	▪
29,00	5,19		▪					
30,00	5,55	▪ ¹⁾²⁾³⁾	▪ ¹⁾²⁾	▪ ¹⁾²⁾³⁾	▪ ¹⁾	▪ ¹⁾	▪	▪ ¹⁾
32,00	6,31	▪	▪	▪	▪	▪	▪	▪
33,00	6,71	▪	▪	▪				
34,00	7,13	▪	▪	▪				▪
35,00	7,55	▪ ¹⁾²⁾³⁾	▪ ¹⁾	▪ ¹⁾²⁾³⁾	▪	▪	▪	▪ ¹⁾
36,00	7,99	▪	▪	▪	▪	▪	▪	▪
38,00	8,90	▪	▪	▪	▪	▪		▪
40,00	9,86	▪ ¹⁾²⁾³⁾	▪ ¹⁾	▪ ¹⁾²⁾³⁾	▪ ¹⁾	▪ ¹⁾	▪	▪ ¹⁾
42,00	10,88	▪	▪	▪	▪	▪		▪
43,00	11,40		▪					
45,00	12,48	▪ ¹⁾²⁾³⁾	▪	▪ ¹⁾²⁾³⁾	▪	▪	▪	▪ ¹⁾
46,00	13,05		▪					
48,00	14,21	▪	▪	▪				▪
50,00	15,41	▪ ¹⁾²⁾³⁾	▪	▪ ¹⁾²⁾³⁾	▪ ¹⁾	▪ ¹⁾	▪	▪ ¹⁾
52,00	16,67		▪					
55,00	18,65	▪ ²⁾	▪	▪ ²⁾	▪	▪	▪	▪ ¹⁾
60,00	22,20	▪ ¹⁾²⁾	▪	▪ ¹⁾²⁾	▪ ¹⁾	▪ ¹⁾	▪	▪ ¹⁾
65,00	26,05	▪	▪	▪	▪	▪	▪	▪ ¹⁾
70,00	30,21	▪ ¹⁾	▪	▪ ¹⁾	▪ ¹⁾	▪ ¹⁾	▪	▪ ¹⁾
75,00	34,68	▪	▪	▪	▪	▪	▪	▪ ¹⁾
80,00	39,46	▪ ¹⁾	▪	▪ ¹⁾	▪ ¹⁾	▪ ¹⁾	▪	▪ ¹⁾
85,00	44,54	▪	▪	▪	▪	▪		▪
90,00	49,94	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	▪	▪ ¹⁾
95,00	55,64	▪	▪	▪			▪	▪
100,00	61,65	▪ ¹⁾	▪	▪ ¹⁾	▪ ¹⁾	▪ ¹⁾	▪	▪ ¹⁾

¹⁾ dimensions also available in lengths of 6 m

²⁾ also available acc. to DIN EN 10278 h8

³⁾ also available acc. to DIN EN 10278 h6

⁴⁾ also available in polished finish

⁵⁾ also available in QT 650

*/**/***/**** finishes see page 49

	stainless			Duplex		heat resistant	
	grade	1.4418	1.4542	1.4460	1.4462	1.4841	1.4923
	AISI/ UNS		630	S32900 Duplex	S31803 Duplex	314	
mm	kg/m	**))	****))	*))	*))	*))	**))
3,00	0,06					▪	
4,00	0,10					▪	
5,00	0,15					▪	
6,00	0,22				▪		
8,00	0,39				▪		
10,00	0,62		▪		▪		▪
12,00	0,89	▪		▪	▪		
12,70	0,99		▪				
14,00	1,21		▪		▪		
15,00	1,39	▪	▪		▪		▪
15,87	1,55		▪				
16,00	1,58	▪		▪	▪		
18,00	2,00				▪		
19,05	2,24		▪				
20,00	2,47	▪	▪	▪	▪		▪
22,00	2,98	▪		▪	▪		
22,25	3,05		▪				
25,00	3,85			▪	▪		
25,40	3,98		▪				
26,00	4,17			▪	▪		
28,00	4,83		▪	▪	▪		
30,00	5,55		▪	▪	▪		
32,00	6,31		▪	▪			
35,00	7,55		▪	▪	▪		
38,00	8,90			▪			
40,00	9,86		▪		▪		
45,00	12,48			▪	▪		
50,00	15,41			▪	▪		
55,00	18,65			▪			
60,00	22,20			▪	▪		
70,00	30,21			▪	▪		
75,00	34,68			▪			
80,00	39,46			▪			
90,00	49,94			▪			

*/**/**** finishes see page 49





ROUND AND HEXAGONAL BARS

with improved machinability

58 - 61

For the right turning

The improved machinability mainly takes effect when it comes to the turning, milling or drilling of workpieces. It doesn't matter which demands our round and hexagonal bars have to meet – our experts have the required know-how and they will find the optimal product for your need.

Round and hexagonal bars | with improved machinability

in random lengths of 3 to 6 m (round)

in random lengths of 3 to 4 m (hexagonal)

- * solution annealed and quenched, hot-formed, peeled or drawn
and/or machined (round)
- heat-treated and cold-formed (hexagonal)

Dimension standards

round: DIN EN 10060 (hot-formed), DIN EN 10278 h9 (cold-formed)

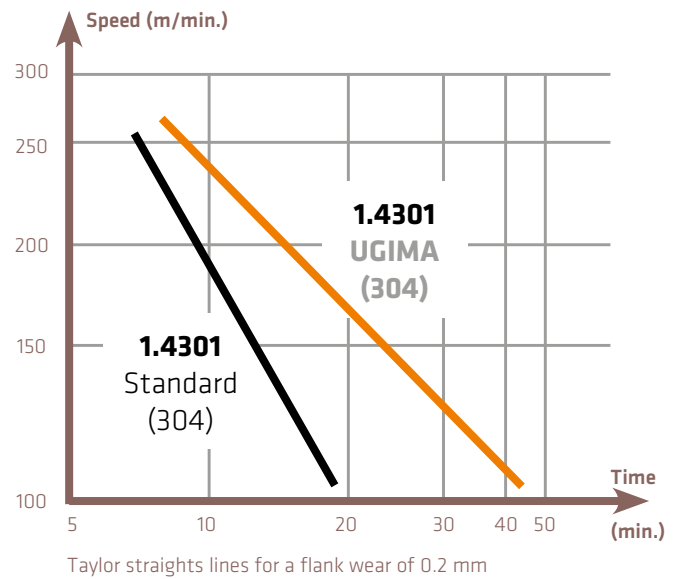
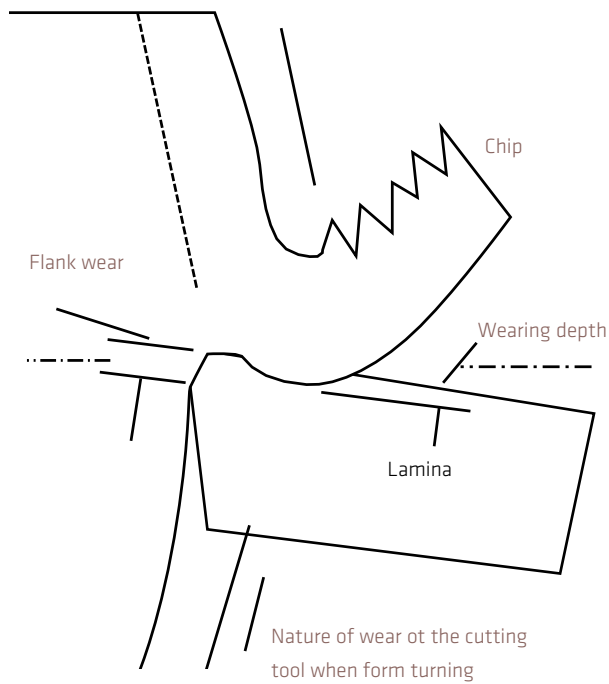
hexagonal: DIN EN 10278 h11 (cold-formed)

Test certificates

DIN EN 10204 3.1

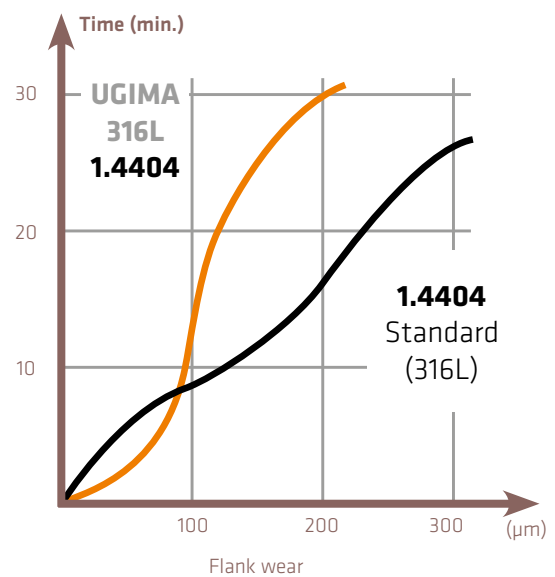
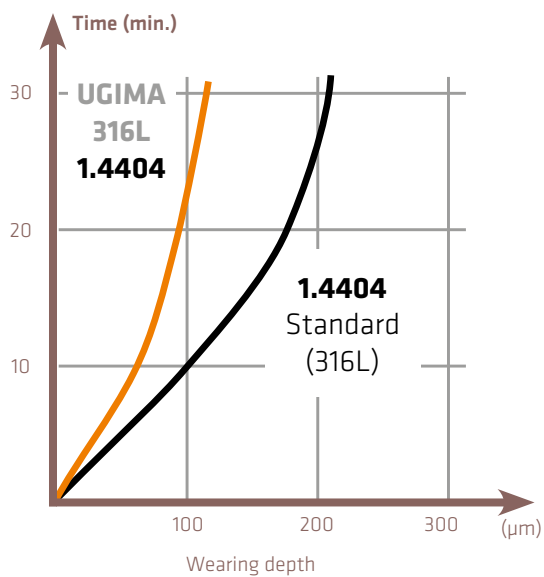
* Classification see page 59 - 61

Round bars | with improved machinability



Cutting material: Coated hard metal TiN
Advance: 0.16 mm
Cutting depth: 2 mm

Cutting material: P20 ISO
Speed: 180 m/min.
Advance: 0.25 mm
Cutting depth: 1.5 mm



stainless				
	grade	1.4301 Ugima	1.4404 Ugima	1.4571 Ugima
mm	kg/m	*)	*)	*)
40,00	9,86	▪		
45,00	12,48	▪		▪
50,00	15,41			▪
55,00	18,65	▪		▪
60,00	22,20	▪	▪	
65,00	26,05	▪		▪
70,00	30,21			▪
75,00	34,68		▪	
80,00	39,46	▪	▪	▪
90,00	49,94	▪		▪
95,00	55,64	▪		
100,00	61,65	▪		
102,00	64,14	▪		
110,00	74,60	▪		▪
120,00	88,78	▪		
125,00	96,33			▪

* finishes see page 57

Round bars | cold-formed | with improved machinability

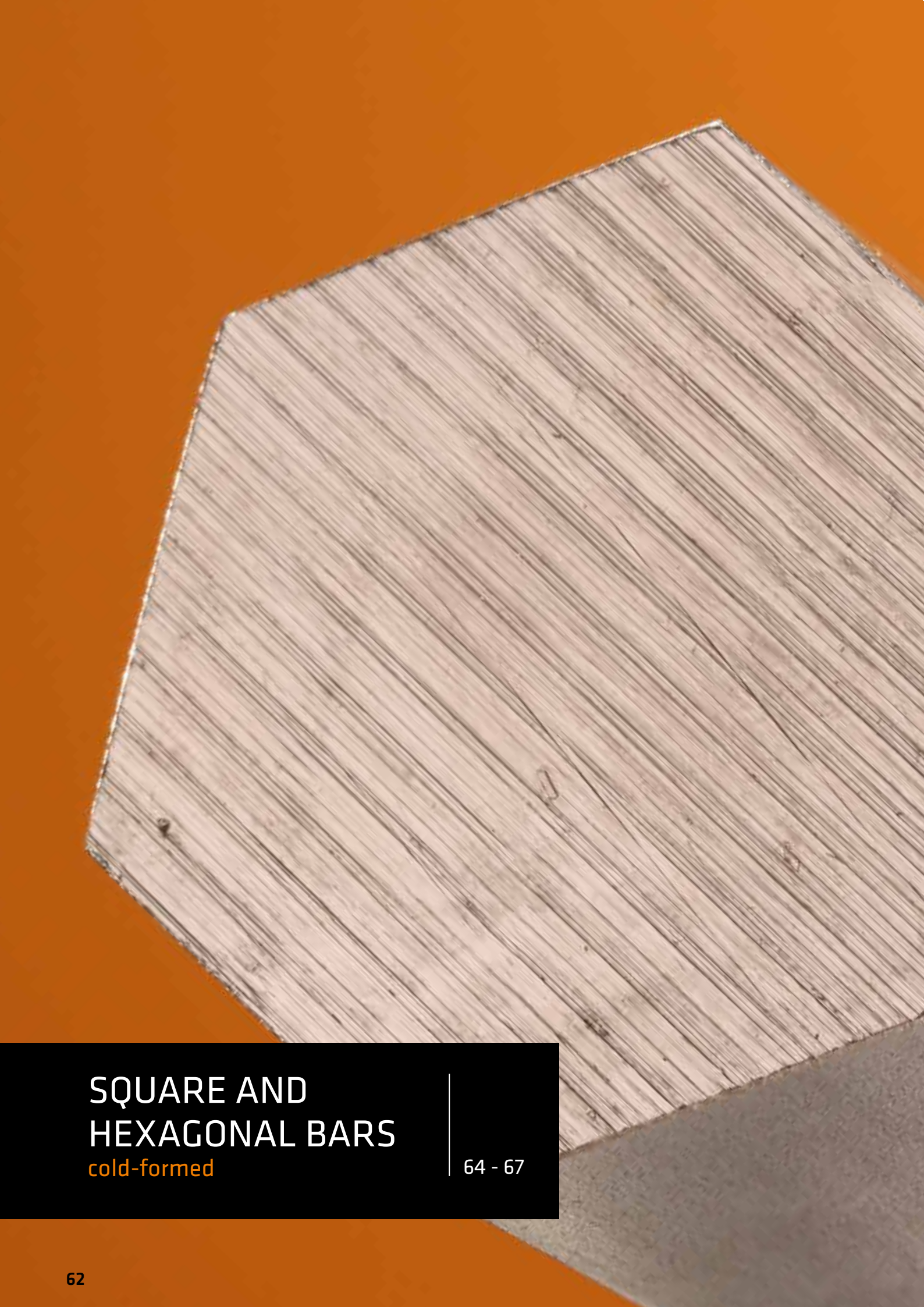
mm	stainless					
	grade	1.4301 Ugima	1.4305 Ugima	1.4404 Ugima	1.4435 Ugima	1.4571 Ugima
	kg/m	*)	*)	*)	*)	*)
4,00	0,10				▪	
5,00	0,15				▪	
6,00	0,22		▪		▪	
8,00	0,39	▪	▪	▪	▪	▪
10,00	0,62	▪	▪	▪	▪	▪
12,00	0,89	▪	▪	▪	▪	▪
13,00	1,04		▪		▪	
14,00	1,21	▪	▪	▪	▪	▪
15,00	1,39	▪	▪	▪	▪	▪
16,00	1,58	▪	▪	▪	▪	▪
17,00	1,78		▪			
18,00	2,00	▪	▪	▪	▪	▪
19,00	2,23		▪			
20,00	2,47	▪	▪	▪	▪	▪
21,00	2,72	▪				
22,00	2,98	▪	▪	▪	▪	▪
24,00	3,55	▪	▪		▪	▪
25,00	3,85	▪	▪	▪	▪	▪
26,00	4,17		▪	▪	▪	▪
28,00	4,83	▪	▪		▪	▪
30,00	5,55	▪	▪	▪	▪	▪
32,00	6,31	▪	▪	▪	▪	▪
33,00	6,71		▪			
34,00	7,13		▪			
35,00	7,55	▪	▪	▪	▪	▪
36,00	7,99	▪	▪	▪		▪
38,00	8,90	▪	▪		▪	
40,00	9,86	▪	▪	▪	▪	▪
42,00	10,88	▪		▪	▪	
45,00	12,48	▪	▪	▪	▪	
50,00	15,41	▪	▪	▪	▪	▪
55,00	18,65	▪	▪	▪	▪	
60,00	22,20	▪	▪	▪	▪	▪
65,00	26,05	▪	▪		▪	
70,00	30,21	▪			▪	
80,00	39,46	▪			▪	
90,00	49,94	▪	▪			

* finishes see page 57

stainless			
	grade	1.4301 Ugima	1.4571 Ugima
mm	kg/m	*)	*)
22,00	3,29		▪
27,00	4,96	▪	▪
30,00	6,12	▪	
32,00	6,96		▪
36,00	8,81		▪
41,00	11,43	▪	▪
50,00	17,00		▪
55,00	20,56		▪

* finishes see page 57





SQUARE AND HEXAGONAL BARS

cold-formed

64 - 67

Strong and stable

When extreme stability and durability are required, square and hexagonal bars are often used – e.g. for machine and plant constructions. And that is for sure: thanks to our long time experience, you can always rely on our specific advice and optimal product availability.

Square and hexagonal bars | cold-formed

in random lengths of 3 to 4 m, heat-treated and cold-formed

- * solution annealed
- ** hardened and tempered
- *** annealed, pickled

Dimension standards

DIN EN 10278 h11

Test certificates

DIN EN 10204 3.1 or works' test certificate 2.1/2.2

*/**/*** Classification see page 64 - 66

mm	stainless							
	grade	1.4104	1.4301	1.4305	1.4307	1.4401	1.4404	1.4571
	AISI	430F	304	303	304L	316	316L	316Ti
kg/m	***)	*)	*)	*)	*)	*)	*)	*)
4,00	0,13		▪		▪			▪
5,00	0,20	▪	▪	▪	▪			▪
6,00	0,28	▪	▪	▪	▪			▪
7,00	0,38		▪	▪	▪			▪
8,00	0,50	▪	▪	▪	▪		▪	▪
9,00	0,64		▪	▪	▪			
10,00	0,79	▪	▪	▪	▪	▪	▪	▪
11,00	0,95		▪	▪	▪			
12,00	1,13	▪	▪	▪	▪	▪	▪	▪
13,00	1,33		▪	▪	▪			
14,00	1,54	▪	▪	▪	▪			▪
15,00	1,77	▪	▪	▪	▪	▪	▪	▪
16,00	2,01	▪	▪	▪	▪	▪	▪	▪
18,00	2,54	▪	▪	▪	▪			▪
20,00	3,14	▪	▪	▪	▪	▪	▪	▪
22,00	3,80	▪	▪	▪	▪	▪	▪	▪
24,00	4,52		▪	▪	▪			▪
25,00	4,91	▪	▪	▪	▪	▪	▪	▪
27,00	5,72							▪
30,00	7,07	▪	▪	▪	▪	▪	▪	▪
32,00	8,04			▪				▪
35,00	9,62	▪	▪	▪	▪	▪	▪	▪
40,00	12,56	▪	▪	▪	▪	▪	▪	▪
45,00	15,90	▪	▪	▪	▪	▪	▪	▪
50,00	19,63	▪	▪	▪	▪	▪	▪	▪
55,00	23,75			▪				
60,00	28,26	▪	▪	▪	▪	▪	▪	▪
70,00	38,47		▪	▪	▪			▪
80,00	50,24		▪	▪	▪			▪
100,00	78,50		▪		▪			▪

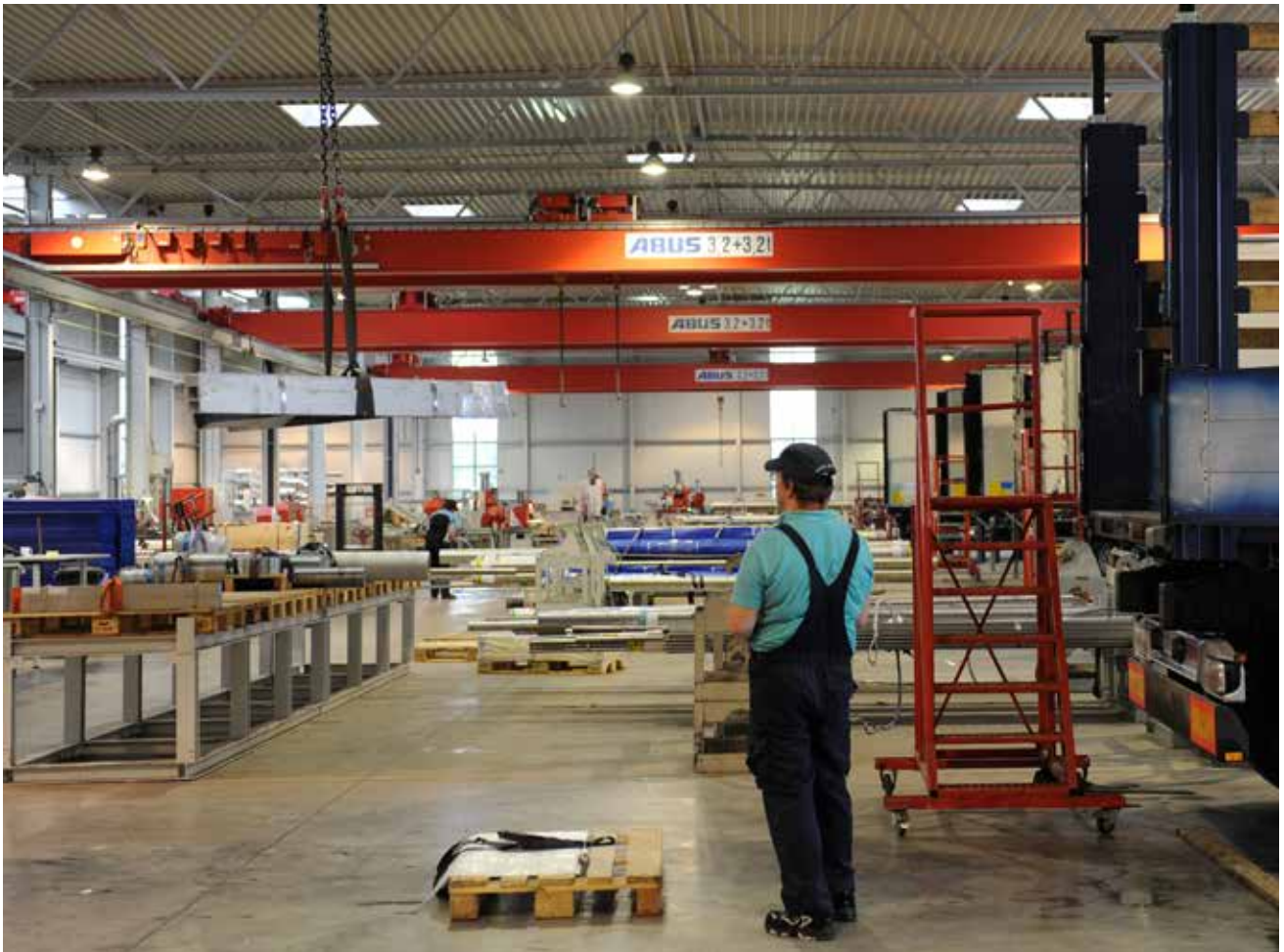
*/**/*** finishes see page 63

mm	stainless									
	grade	1.4057	1.4104	1.4301	1.4305	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	431	430F	304	303	304L	316	316L	321	316Ti
kg/m	**)	***)	*)	*)	*)	*)	*)	*)	*)	*)
5,00	0,17		▪		▪					
6,00	0,24				▪					▪
7,00	0,33		▪	▪	▪	▪	▪	▪		
8,00	0,44		▪	▪	▪	▪	▪	▪		▪
9,00	0,55		▪	▪	▪	▪				
10,00	0,68		▪	▪	▪	▪	▪	▪		▪
11,00	0,82	▪	▪	▪	▪	▪				▪
12,00	0,98		▪	▪	▪	▪		▪		▪
13,00	1,15	▪	▪	▪	▪	▪	▪	▪	▪	▪
14,00	1,33		▪	▪	▪	▪	▪	▪	▪	▪
15,00	1,53			▪	▪			▪		
17,00	1,96	▪	▪	▪	▪	▪	▪	▪	▪	▪
19,00	2,45	▪	▪	▪	▪	▪	▪	▪	▪	▪
22,00	3,29	▪	▪	▪	▪	▪	▪	▪	▪	▪
24,00	3,92	▪	▪	▪	▪	▪	▪	▪	▪	▪
27,00	4,96		▪	▪	▪	▪	▪	▪	▪	▪
30,00	6,12	▪	▪	▪	▪	▪	▪	▪	▪	▪
32,00	6,96		▪	▪	▪	▪	▪	▪	▪	▪
36,00	8,81	▪	▪	▪	▪	▪	▪	▪	▪	▪
41,00	11,43	▪	▪	▪	▪	▪	▪	▪	▪	▪
46,00	14,39		▪	▪	▪	▪	▪	▪	▪	▪
50,00	17,00		▪	▪	▪	▪	▪	▪	▪	▪
55,00	20,56		▪	▪	▪	▪	▪	▪	▪	▪
60,00	24,47		▪	▪	▪	▪	▪	▪	▪	▪
65,00	28,72			▪		▪			▪	▪
70,00	33,31									▪

*/**/** finishes see page 63

mm	stainless		highly corrosion resistant	heat resistant
	grade	1.4435	1.4539	1.4841
	AISI	316L	904L	314
	kg/m	*)	*)	*)
13,00	1,15	▪		▪
14,00	1,33	▪		
17,00	1,96	▪		
19,00	2,45	▪	▪	▪
22,00	3,29	▪		
24,00	3,92	▪	▪	▪
27,00	4,96	▪	▪	▪
30,00	6,12	▪	▪	▪
32,00	6,96	▪	▪	
36,00	8,81		▪	▪
41,00	11,43	▪		▪
46,00	14,39			
50,00	17,00			
55,00	20,56			
60,00	24,47			
65,00	28,72			

*/**/*** finishes see page 63





FLAT BARS

cold-formed

70 - 73

Sturdiness guarantees long life

Cold-formed flat bars are indestructible. They are mainly used when it comes to constructions, which are characterized by extreme stability and durability. It's good to know that we have a profound knowledge of cold-formed flat bars and always the right product for your project.

Flat bars | cold-formed

in random lengths of 3 to 4 m, heat-treated and cold-formed

* solution annealed

Dimension standards

DIN EN 10278

Test certificates

DIN EN 10204 3.1 or works' test certificate 2.1/2.2

* Classification see page 70 - 73

mm	stainless						
	grade	1.4301	1.4305	1.4307	1.4401	1.4404	1.4571
	AISI	304	303	304L	316	316L	316Ti
kg/m		*)	*)	*)	*)	*)	*)
8 x 4	0,25	▪		▪			
10 x 3	0,24	▪		▪			▪
10 x 4	0,31	▪		▪			▪
10 x 5	0,39	▪		▪			▪
10 x 6	0,47	▪		▪			
10 x 8	0,63	▪		▪			
12 x 3	0,28	▪		▪			▪
12 x 4	0,38	▪		▪			
12 x 5	0,47	▪		▪			
12 x 6	0,57	▪		▪			
12 x 8	0,75	▪		▪			
12 x 10	0,94	▪		▪			
15 x 3	0,35	▪		▪	▪	▪	▪
15 x 4	0,47	▪		▪			▪
15 x 5	0,59	▪		▪	▪	▪	▪
15 x 6	0,71	▪		▪			▪
15 x 8	0,94	▪		▪		▪	▪
15 x 10	1,18	▪		▪	▪	▪	▪
15 x 12	1,41	▪		▪			
16 x 6	0,75	▪		▪			
16 x 8	1,00	▪		▪			
20 x 3	0,47	▪		▪		▪	▪
20 x 4	0,63	▪		▪			▪
20 x 5	0,79	▪	▪	▪	▪	▪	▪
20 x 6	0,94	▪	▪	▪			▪
20 x 8	1,26	▪	▪	▪	▪	▪	▪
20 x 10	1,57	▪	▪	▪	▪	▪	▪
20 x 12	1,88	▪	▪	▪	▪	▪	▪
20 x 15	2,36	▪	▪	▪	▪	▪	▪
25 x 3	0,59	▪		▪			
25 x 4	0,79	▪		▪			
25 x 5	0,98	▪		▪		▪	▪
25 x 6	1,18	▪	▪	▪	▪	▪	▪
25 x 8	1,57	▪	▪	▪		▪	▪
25 x 10	1,96	▪	▪	▪	▪	▪	▪
25 x 12	2,36	▪		▪			▪
25 x 15	2,94	▪		▪			▪
25 x 20	3,93	▪		▪			▪

¹) dimension also available in lengths of 6 m

* finishes see page 69

mm	stainless						
	grade	1.4301	1.4305	1.4307	1.4401	1.4404	1.4571
	AISI	304	303	304L	316	316L	316Ti
	kg/m	*)	*)	*)	*)	*)	*)
30 x 3	0,71	▪ ¹⁾		▪ ¹⁾			▪
30 x 4	0,94	▪		▪			
30 x 5	1,18	▪	▪	▪	▪	▪	▪
30 x 6	1,41	▪	▪	▪			▪
30 x 8	1,88	▪	▪	▪	▪	▪	▪
30 x 10	2,36	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	▪
30 x 12	2,83	▪	▪	▪			▪
30 x 15	3,53	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	▪
30 x 20	4,71	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	▪
30 x 25	5,89	▪		▪	▪	▪	▪
35 x 3	0,82	▪		▪			
35 x 4	1,10	▪		▪			
35 x 5	1,37	▪		▪			
35 x 6	1,65	▪		▪	▪	▪	▪
35 x 8	2,20	▪		▪			
35 x 10	2,75	▪		▪			
35 x 12	3,30	▪		▪			
35 x 15	4,12	▪		▪			▪
35 x 20	5,50	▪		▪			
35 x 25	6,87	▪		▪			
40 x 3	0,94	▪		▪			
40 x 4	1,26	▪		▪			
40 x 5	1,57	▪		▪	▪	▪	▪
40 x 6	1,88	▪	▪	▪	▪	▪	▪
40 x 8	2,51	▪	▪	▪	▪	▪	▪
40 x 10	3,14	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	▪
40 x 12	3,77	▪	▪	▪	▪	▪	▪
40 x 15	4,71	▪	▪	▪	▪	▪	▪
40 x 20	6,28	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	▪
40 x 25	7,85	▪	▪	▪		▪	▪
40 x 30	9,42	▪	▪	▪	▪	▪	▪
45 x 5	1,77	▪		▪			
45 x 6	2,12	▪		▪			
45 x 8	2,83	▪		▪			
45 x 10	3,53	▪		▪			
45 x 12	4,24	▪		▪			
45 x 15	5,30	▪		▪			
45 x 20	7,07	▪		▪			

¹⁾ dimension also available in lengths of 6 m

* finishes see page 69

mm	stainless						
	grade	1.4301	1.4305	1.4307	1.4401	1.4404	1.4571
	AISI	304	303	304L	316	316L	316Ti
kg/m		*)	*)	*)	*)	*)	*)
50 x 3	1,18	▪		▪			
50 x 4	1,57	▪		▪			
50 x 5	1,96	▪		▪			▪
50 x 6	2,36	▪	▪	▪			▪
50 x 8	3,14	▪	▪	▪		▪	▪
50 x 10	3,93	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	▪
50 x 12	4,71	▪	▪	▪			▪
50 x 15	5,89	▪	▪	▪	▪	▪	▪
50 x 20	7,85	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	▪
50 x 25	9,81	▪	▪	▪			
50 x 30	11,78	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	▪
50 x 35	13,74	▪		▪			
50 x 40	15,70	▪	▪	▪			▪
60 x 4	1,88	▪		▪			
60 x 5	2,36	▪		▪		▪	▪
60 x 6	2,83	▪	▪	▪	▪	▪	▪
60 x 8	3,77	▪	▪	▪		▪	▪
60 x 10	4,71	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	▪
60 x 12	5,65	▪	▪	▪			▪
60 x 15	7,07	▪	▪	▪	▪	▪	▪
60 x 20	9,42	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	▪
60 x 25	11,78	▪	▪	▪			
60 x 30	14,13	▪	▪	▪	▪	▪	
60 x 35	16,49	▪	▪	▪			
60 x 40	18,84	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	▪
60 x 50	23,55	▪		▪			
70 x 5	2,75	▪		▪			
70 x 6	3,30	▪		▪			
70 x 8	4,40	▪		▪			
70 x 10	5,50	▪	▪	▪			▪
70 x 12	6,59	▪		▪			
70 x 15	8,24	▪	▪	▪			
70 x 20	10,99	▪	▪	▪			
70 x 25	13,74	▪		▪			
70 x 30	16,49	▪	▪	▪			
70 x 40	21,98	▪	▪	▪			
80 x 4	2,51	▪		▪			
80 x 5	3,14	▪		▪			
80 x 6	3,77	▪ ¹⁾		▪ ¹⁾			

¹⁾ dimension also available in lengths of 6 m

* finishes see page 69

mm	stainless						
	grade	1.4301	1.4305	1.4307	1.4401	1.4404	1.4571
	AISI	304	303	304L	316	316L	316Ti
kg/m		*)	*)	*)	*)	*)	*)
80 x 8	5,02	▪ ¹⁾		▪ ¹⁾			▪
80 x 10	6,28	▪	▪	▪			▪
80 x 12	7,54	▪	▪	▪	▪	▪	▪
80 x 15	9,42	▪	▪	▪			▪
80 x 20	12,56	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	▪
80 x 25	15,70	▪	▪	▪			
80 x 30	18,84	▪	▪	▪	▪	▪	▪
80 x 40	25,12	▪	▪	▪			
90 x 6	4,24	▪		▪			
90 x 8	5,65	▪		▪			
90 x 10	7,07	▪		▪			
90 x 12	8,48	▪		▪			
90 x 15	10,60	▪		▪			
90 x 20	14,13	▪		▪			
90 x 25	17,66	▪		▪			
90 x 30	21,20	▪		▪			
100 x 5	3,93	▪		▪			
100 x 6	4,71	▪		▪			
100 x 8	6,28	▪	▪	▪	▪	▪	
100 x 10	7,85	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	▪
100 x 12	9,42	▪	▪	▪			
100 x 15	11,78	▪	▪	▪	▪	▪	▪
100 x 20	15,70	▪ ¹⁾	▪	▪ ¹⁾	▪	▪	
100 x 25	19,63	▪	▪	▪			
100 x 30	23,55	▪	▪	▪			
100 x 40	31,40	▪	▪	▪			
100 x 50	39,25	▪		▪			
120 x 8	7,54	▪		▪			
120 x 10	9,42	▪	▪	▪			▪
120 x 12	11,30	▪	▪	▪			
120 x 15	14,13	▪	▪	▪			
120 x 20	18,84	▪	▪	▪			
120 x 30	28,26	▪		▪			
140 x 8	8,79	▪		▪			
140 x 10	10,99	▪		▪			
150 x 10	11,78	▪		▪			
150 x 15	17,66	▪		▪			
150 x 20	23,55	▪		▪			
160 x 10	12,56	▪		▪			

¹⁾ dimension also available in lengths of 6 m

* finishes see page 69



FLAT BARS

hot-formed or slit from sheet
or strip | polished

76 - 77

Cut to size

A hot-formed polished flat bar looks precious. It can be slit from sheet or strip in the size you need, in the right grade and, of course, with test certificate. This is also part of our idea of a suitable supply.

Flat bars | hot-formed or slit from sheet or strip | polished grain 240 or 320

in random lengths of 4 to 6 m, heat-treated before cutting, polished grain 240 or 320

* solution annealed

Test certificates

DIN EN 10204 3.1 for the pre-material

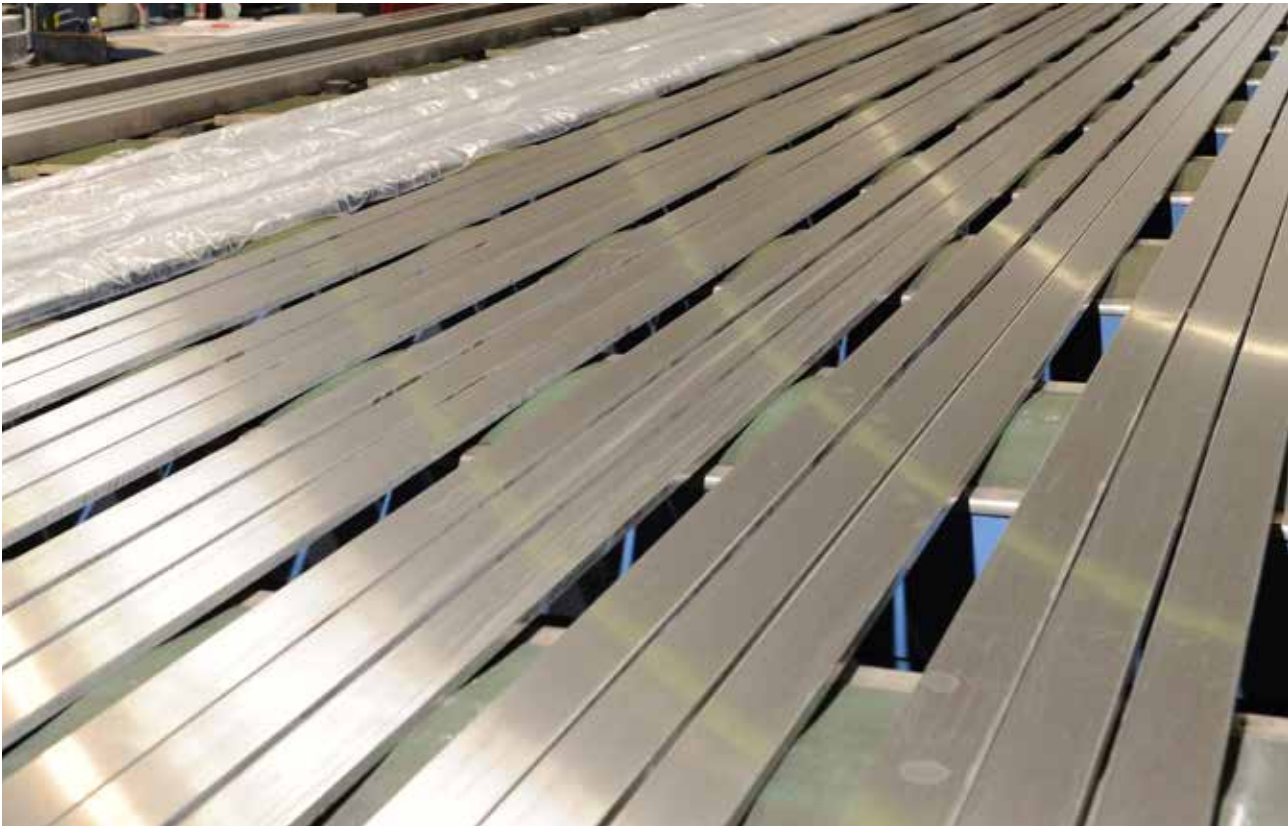
* Classification see page 76 - 77

mm	stainless	
	grade	1.4301
	AISI	304
mm	kg/m	*)
20 x 3	0,47	▪
20 x 4	0,63	▪
20 x 5	0,79	▪
20 x 6	0,94	▪
20 x 8	1,26	▪
20 x 10	1,57	▪
25 x 5	0,98	▪
25 x 6	1,18	▪
25 x 8	1,57	▪
25 x 10	1,96	▪
30 x 4	0,94	▪
30 x 5	1,18	▪
30 x 6	1,41	▪
30 x 8	1,88	▪
30 x 10	2,36	▪
35 x 8	2,20	▪
40 x 3	0,94	▪
40 x 4	1,26	▪
40 x 5	1,57	▪
40 x 6	1,88	▪
40 x 8	2,51	▪
40 x 10	3,14	▪
40 x 12	3,77	▪
50 x 4	1,57	▪
50 x 5	1,96	▪
50 x 6	2,36	▪
50 x 8	3,14	▪
50 x 10	3,93	▪
50 x 12	4,71	▪
60 x 4	1,88	▪
60 x 5	2,36	▪
60 x 6	2,83	▪
60 x 8	3,77	▪
60 x 10	4,71	▪
60 x 12	5,65	▪
70 x 10	5,50	▪

* finishes see page 75

mm	stainless	
	grade	1.4301
	AISI	304
	kg/m	*)
80 x 4	2,51	▪
80 x 5	3,14	▪
80 x 6	3,77	▪
80 x 8	5,02	▪
80 x 10	6,28	▪
100 x 5	3,93	▪
100 x 6	4,71	▪
100 x 8	6,28	▪
100 x 10	7,85	▪
120 x 8	7,54	▪
120 x 10	9,42	▪

* finishes see page 75





HALF-ROUND AND FLAT HALF-ROUND BARS

80 - 81

Bars that point out quality

Half-round and flat half-round bars are multi-talents in steel construction. For this reason, they are being used in many areas. Our purchase department works only with first-class producers, so that you can be sure to always get the best quality in no time.

Half-round and flat half-round bars

in random lengths of 3 to 3.5 m

bright, cold-formed und blank annealed

* solution annealed

Dimension standards

DIN 1018

Test certificates

DIN EN 10204 3.1 or works' test certificate 2.1/2.2

* Classification see page 80

Half-round bars

mm	stainless	
	grade	1.4404
	AISI	316L
mm	kg/m	*)
16 x 8	0,78	▪
20 x 10	1,23	▪
30 x 15	2,77	▪
40 x 20	4,95	▪
50 x 25	7,75	▪

Flat half-round bars

mm	stainless	
	grade	1.4404
	AISI	316L
mm	kg/m	*)
10 x 3,5	0,20	▪
20 x 4,0	0,43	▪

* finishes see page 79

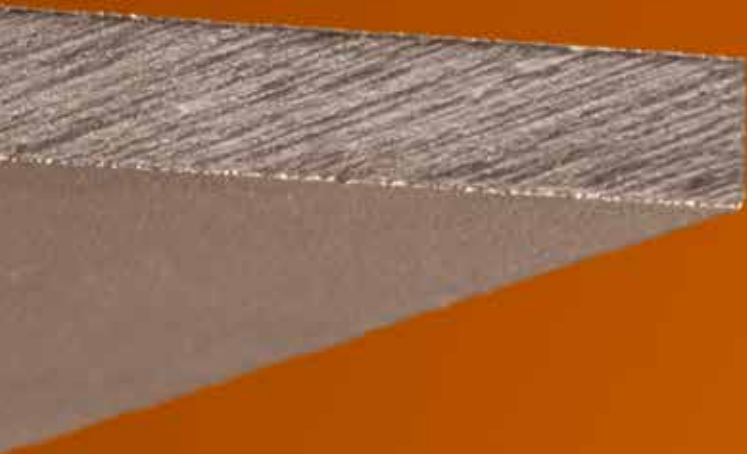




ANGLES AND SPECIAL ANGLES

equal and unequal

84 - 87



Looked at from this angle

Purchasers and constructive technicians appreciate our range of angles and special angles, because it reduces the production work and cost. And because we see it the same way, we will always have the right products available ex stock for you.

Angles and special angles | equal and unequal

hot-formed in random lengths of 5 to 6 m (angles) or 4 to 7 m (special angles),
cold-formed in random lengths of 3 to 3.5 m

* solution annealed or quenched, pickled, hot-formed

Dimension standards

DIN EN 10056-2 or DIN 1028

Test certificates

DIN EN 10204 3.1 or works' test certificate 2.1/2.2

* Classification see page 84 - 87

mm a x a x t	stainless						
	grade	1.4301	1.4307	1.4401	1.4404	1.4541	1.4571
	AISI	304	304L	316	316L	321	316Ti
	kg/m	*)	*)	*)	*)	*)	*)
20 x 20 x 3	0,89	▪	▪	▪	▪	▪	▪
20 x 20 x 4	1,15	▪	▪				
25 x 25 x 3	1,13	▪	▪	▪	▪	▪	▪
25 x 25 x 4	1,47	▪	▪				
30 x 30 x 3	1,37	▪	▪	▪	▪	▪	▪
30 x 30 x 4	1,79	▪	▪	▪	▪	▪	▪
30 x 30 x 5	2,20	▪					
35 x 35 x 4	2,11	▪	▪	▪	▪	▪	▪
40 x 40 x 3	1,85	▪	▪				
40 x 40 x 4	2,43	▪	▪	▪	▪	▪	▪
40 x 40 x 5	3,00	▪	▪	▪	▪	▪	▪
45 x 45 x 5	3,40	▪	▪				▪
50 x 50 x 4	3,07	▪	▪				
50 x 50 x 5	3,80	▪	▪	▪	▪	▪	▪
50 x 50 x 6	4,51	▪	▪		▪		
60 x 60 x 5	4,60	▪	▪				▪
60 x 60 x 6	5,47	▪	▪	▪	▪	▪	▪
60 x 60 x 8	7,17	▪					
70 x 70 x 7	7,45	▪	▪	▪	▪	▪	▪
80 x 80 x 6	7,39	▪					
80 x 80 x 8	9,73	▪	▪	▪	▪	▪	▪
80 x 80 x 10	12,00	▪					
90 x 90 x 9	12,31	▪	▪	▪	▪		▪
100 x 100 x 8	12,29	▪					
100 x 100 x 10	15,20	▪	▪	▪	▪	▪	▪
100 x 100 x 12	18,05	▪					

* finishes see page 83

mm a x a x t	stainless			
	grade	1.4301	1.4307	1.4571
	AISI	304	304L	316Ti
	kg/m	*)	*)	*)
15 x 15 x 2	0,45	▪	▪	
15 x 15 x 3	0,65	▪	▪	
20 x 20 x 2	0,61	▪	▪	
20 x 20 x 5	1,40	▪	▪	
25 x 25 x 5	1,80	▪	▪	▪
30 x 30 x 5	2,20	▪	▪	
30 x 30 x 6	2,59	▪	▪	▪
35 x 35 x 5	2,60	▪	▪	
35 x 35 x 6	3,07	▪	▪	
40 x 40 x 6	3,55	▪	▪	
40 x 40 x 8	4,61	▪	▪	
50 x 50 x 7	5,21	▪	▪	▪
50 x 50 x 9	6,55	▪	▪	
50 x 50 x 10	7,20	▪	▪	▪
55 x 55 x 6	4,99	▪	▪	
60 x 60 x 7	6,33	▪	▪	
60 x 60 x 8	7,17	▪	▪	▪
60 x 60 x 10	8,80	▪	▪	▪
65 x 65 x 9	8,71			▪
70 x 70 x 9	9,43	▪	▪	
70 x 70 x 11	11,35	▪	▪	
75 x 75 x 6	6,91	▪	▪	▪
75 x 75 x 7	8,01	▪	▪	
80 x 80 x 6	7,39	▪	▪	▪
80 x 80 x 10	12,00	▪	▪	▪
80 x 80 x 12	14,21	▪	▪	
100 x 100 x 6	9,31	▪	▪	
100 x 100 x 8	12,29	▪	▪	▪
100 x 100 x 12	18,05	▪	▪	
110 x 110 x 10	16,80	▪	▪	▪
120 x 120 x 10	18,40	▪	▪	▪
120 x 120 x 13	23,61	▪	▪	▪
130 x 130 x 12	23,81	▪	▪	▪
140 x 140 x 13	27,77	▪	▪	
150 x 150 x 13	29,85	▪	▪	▪
150 x 150 x 15	34,20	▪	▪	▪
160 x 160 x 15	36,60	▪	▪	
180 x 180 x 20	54,40	▪	▪	

* finishes see page 83

Unequal angles | hot-formed

abbrevi- ation	mm a x b x t	stainless			
		grade	1.4301	1.4307	1.4571
		AISI	304	304L	316Ti
		kg/m	*)	*)	*)
20	20 x 10 x 3	0,65	▪	▪	
25	25 x 15 x 3	0,89	▪	▪	
30	30 x 15 x 3	1,01	▪	▪	
	30 x 20 x 3	1,13	▪	▪	▪
	30 x 20 x 4	1,47	▪	▪	▪
40	40 x 20 x 3	1,37	▪	▪	▪
	40 x 20 x 4	1,79	▪	▪	▪
	40 x 20 x 5	2,20	▪	▪	
	40 x 30 x 5	2,60	▪	▪	▪
45	45 x 30 x 4	2,27	▪	▪	
	45 x 30 x 5	2,80	▪	▪	
50	50 x 25 x 4	2,27	▪	▪	
	50 x 30 x 4	2,43	▪	▪	
	50 x 30 x 5	3,00	▪	▪	▪
	50 x 40 x 5	3,40	▪	▪	▪
60	60 x 30 x 5	3,40	▪	▪	▪
	60 x 30 x 6	4,03	▪	▪	
	60 x 30 x 7	4,65	▪	▪	
	60 x 40 x 5	3,80	▪	▪	▪
	60 x 40 x 6	4,51	▪	▪	▪
65	65 x 50 x 5	4,40	▪	▪	▪
	65 x 50 x 7	6,05	▪	▪	
	65 x 50 x 9	7,63	▪	▪	
70	70 x 50 x 6	5,47	▪	▪	▪
75	75 x 50 x 6	5,71	▪	▪	▪
	75 x 50 x 7	6,61	▪	▪	▪
80	80 x 40 x 6	5,47	▪	▪	▪
	80 x 40 x 8	7,17	▪	▪	▪
	80 x 65 x 6	6,67	▪	▪	▪
	80 x 65 x 8	8,77	▪	▪	▪
	80 x 65 x 10	10,80			▪
90	90 x 60 x 6	6,91	▪	▪	
	90 x 60 x 8	9,09	▪	▪	▪
100	100 x 50 x 6	6,91	▪	▪	▪
	100 x 50 x 8	9,09	▪	▪	▪
	100 x 50 x 10	11,20	▪	▪	▪
	100 x 65 x 7	8,85	▪	▪	▪
	100 x 65 x 9	11,23	▪	▪	▪
	100 x 65 x 11	13,55	▪	▪	
	100 x 75 x 6	8,11			▪
	100 x 75 x 9	11,95			▪

* finishes see page 83

Unequal angles | hot-formed

abbrevi- ation	mm a x b x t	stainless			
		grade	1.4301	1.4307	1.4571
		AISI	304	304L	316Ti
		kg/m	*)	*)	*)
120	120 x 80 x 8	12,29	▪	▪	▪
	120 x 80 x 10	15,20	▪	▪	▪
	120 x 80 x 12	18,05	▪	▪	▪
130	130 x 65 x 8	11,97	▪	▪	▪
	130 x 65 x 10	14,80	▪	▪	▪
	130 x 90 x 12	19,97	▪	▪	▪
150	150 x 75 x 8	13,89	▪	▪	▪
	150 x 75 x 10	17,20	▪	▪	▪
	150 x 100 x 10	19,20	▪	▪	▪
	150 x 100 x 12	22,85	▪	▪	▪
160	160 x 80 x 10	18,40	▪	▪	▪
200	200 x 100 x 12	27,65	▪	▪	▪
	200 x 100 x 13	29,85	▪	▪	▪

Angles | cold-formed

mm a x a x t	stainless		
	grade	1.4301	1.4307
	AISI	304	304L
	kg/m	*)	*)
10 x 10 x 2,0	0,29	▪	▪
15 x 15 x 2,0	0,45	▪	▪
15 x 15 x 3,0	0,65	▪	▪
20 x 20 x 2,0	0,61	▪	▪
20 x 20 x 3,0	0,89	▪	▪
25 x 25 x 2,5	0,95	▪	▪
25 x 25 x 3,0	1,13	▪	▪
25 x 25 x 4,0	1,47	▪	▪
30 x 30 x 3,0	1,37	▪	▪
30 x 30 x 4,0	1,79	▪	▪
30 x 30 x 5,0	2,20	▪	▪
35 x 35 x 4,0	2,11	▪	▪
40 x 20 x 4,0	1,79	▪	▪
40 x 40 x 3,0	1,85	▪	▪
40 x 40 x 4,0	2,43	▪	▪
40 x 40 x 5,0	3,00	▪	▪
50 x 50 x 5,0	3,80	▪	▪
60 x 60 x 6,0	5,47	▪	▪

* finishes see page 83



SPECIAL SECTIONS

U-channels | T-sections |
I-beams

90 - 93

Deep product range

Due to its diverse forms and properties, special sections are used in various steel constructions. Thanks to our profound assortment, we have always the perfect solution for you. Our experts will give you full advice.

Special sections

in random lengths of 4 to 6 m (U-channels 4 to 7 m), hot-formed¹⁾

* solution annealed or quenched, pickled

Test certificates

DIN EN 10204 3.1 or works' test certificate 2.1/2.2

¹⁾ We reserve the right to choose the manufacturing method.

* Classification see page 90 - 93

U-channels

abbrev- viation	stainless					
	mm h x b x s x t	grade	1.4301	1.4307	1.4404	1.4571
		AISI	304	304L	316L	316Ti
		kg/m	*)	*)	*)	*)
20	20 x 10 x 3 x 3,5	0,87	▪	▪		
30	30 x 15 x 4 x 4,5	1,75	▪	▪		
	30 x 33 x 5 x 7,0	4,34	▪	▪		
40	40 x 20 x 3 x 3,5	1,91	▪	▪		
	40 x 20 x 4 x 4,5	2,43	▪	▪		▪
	40 x 35 x 5 x 7,0	4,96	▪	▪		▪
50	50 x 25 x 3 x 3,0	2,26	▪	▪		
	50 x 25 x 5 x 5,0	3,60	▪	▪		
	50 x 25 x 5 x 6,0	3,92	▪	▪		▪
	50 x 38 x 5 x 7,0	5,70	▪	▪	▪	▪
60	60 x 30 x 6 x 6,0	5,18	▪	▪		▪
65	65 x 42 x 5,5 x 7,5	7,24	▪	▪	▪	▪
80	80 x 40 x 5 x 5,0	6,00	▪	▪		▪
	80 x 40 x 6 x 6,0	7,10	▪	▪		▪
	80 x 45 x 6 x 8,0	8,83	▪	▪	▪	▪
100	100 x 50 x 4 x 4,0	6,14	▪	▪		
	100 x 50 x 5 x 5,0	7,60	▪	▪		▪
	100 x 50 x 5 x 7,0	9,04	▪	▪		
	100 x 50 x 6 x 6,0	9,02	▪	▪	▪	▪
	100 x 50 x 6 x 8,5	10,78	▪	▪	▪	▪
120	120 x 55 x 7 x 9,0	13,63	▪	▪	▪	▪
	120 x 60 x 6 x 6,0	10,94	▪	▪		▪
140	140 x 60 x 7 x 10,0	16,32	▪	▪		▪
	140 x 70 x 7 x 7,0	14,90	▪	▪		▪
150	150 x 75 x 9 x 9,0	20,30	▪	▪		▪
160	160 x 65 x 7,5 x 10,5	19,26	▪	▪		▪
	160 x 80 x 8 x 8,0	19,46	▪	▪		▪
180	180 x 70 x 8 x 11,0	22,43	▪	▪		▪
	180 x 90 x 8 x 8,0	22,02	▪	▪		
200	200 x 75 x 8,5 x 11,5	25,84	▪	▪		▪
	200 x 100 x 8 x 8,0	24,58	▪	▪		
	200 x 100 x 10 x 10,0	30,10	▪	▪		▪

* finishes see page 89

Equal T-sections (T)

abbrev- iation T	mm h x b x s	stainless			
		grade	1.4301	1.4307	1.4571
		AISI	304	304L	316Ti
		kg/m	*)	*)	*)
20	20 x 20 x 3	0,90	▪	▪	
	20 x 20 x 4	1,17	▪	▪	
25	25 x 25 x 3	1,14	▪	▪	
	25 x 25 x 4	1,49	▪	▪	
30	30 x 30 x 3	1,38	▪	▪	
	30 x 30 x 4	1,81	▪	▪	▪
35	35 x 35 x 4	2,13	▪	▪	
40	40 x 40 x 4	2,45	▪	▪	▪
	40 x 40 x 5	3,00	▪	▪	▪
45	45 x 45 x 5	3,41	▪	▪	▪
50	50 x 50 x 3	2,34	▪	▪	
	50 x 50 x 5	3,81	▪	▪	▪
	50 x 50 x 6	4,53	▪	▪	▪
60	60 x 60 x 6	5,49	▪	▪	▪
70	70 x 70 x 7	7,46	▪	▪	▪
80	80 x 80 x 6	7,41	▪	▪	
	80 x 80 x 8	9,74	▪	▪	▪
90	90 x 90 x 9	12,33	▪	▪	
100	100 x 100 x 10	15,21	▪	▪	▪
120	120 x 120 x 10	18,41	▪	▪	
	120 x 120 x 13	23,62	▪	▪	▪

Unequal T-sections (TB)

abbrev- iation TB	mm h x b x s	stainless		
		grade	1.4301	1.4307
		AISI	304	304L
		kg/m	*)	*)
30	30 x 60 x 5,5	3,72	▪	▪
35	35 x 70 x 6,0	4,75	▪	▪
40	40 x 60 x 4,0	3,07	▪	▪
	40 x 80 x 7,0	6,33	▪	▪
50	50 x 100 x 8,5	9,62	▪	▪
60	60 x 120 x 10,0	13,60	▪	▪

* finishes see page 89

I beams | IPE series

abbrev- viation IPE	mm h x b x s x t	stainless			
		grade	1.4301	1.4307	1.4571
		AISI	304	304L	316Ti
		kg/m	*)	*)	*)
80	80 x 46 x 3,8 x 5,2	5,94	▪	▪	▪
100	100 x 55 x 4,1 x 5,7	7,92	▪	▪	▪
120	120 x 64 x 4,4 x 6,3	10,23	▪	▪	▪
140	140 x 73 x 4,7 x 6,9	12,80	▪	▪	▪
160	160 x 82 x 5,0 x 7,4	15,52	▪	▪	▪
	160 x 82 x 10,0 x 12,0	26,62	▪	▪	
180	180 x 91 x 5,3 x 8,0	18,60	▪	▪	
200	200 x 100 x 5,6 x 8,5	21,80	▪	▪	
240	240 x 120 x 10,0 x 12,0	40,32	▪	▪	

I beams | special beams

	mm h x b x s x t	stainless			
		grade	1.4301	1.4307	1.4571
		AISI	304	304L	316Ti
		kg/m	*)	*)	*)
100	100 x 100 x 6 x 8,0	16,83	▪	▪	▪
150	150 x 150 x 8 x 10,0	32,32	▪	▪	
200	200 x 200 x 8 x 12,0	49,66	▪	▪	

* finishes see page 89

I beams | HEA series

abbrev- iation HEA	mm h x b x s x t	stainless			
		grade	1.4301	1.4307	1.4571
		AISI	304	304L	316Ti
		kg/m	*)	*)	*)
100	96 x 100 x 5,0 x 8,0	16,00			▪
120	114 x 120 x 5,0 x 8,0	19,28	▪	▪	
160	152 x 160 x 6,0 x 9,0	29,47	▪	▪	

I beams | HEB series

abbrev- iation HEB	mm h x b x s x t	stainless			
		grade	1.4301	1.4307	1.4571
		AISI	304	304L	316Ti
		kg/m	*)	*)	*)
100	100 x 100 x 6,0 x 10	19,84	▪		▪
120	120 x 120 x 6,5 x 11	26,22	▪	▪	▪
140	140 x 140 x 7,0 x 12	33,38	▪	▪	▪
160	160 x 160 x 8,0 x 13	41,86	▪	▪	▪
180	180 x 180 x 8,5 x 14	50,66	▪	▪	▪

* finishes see page 89

PLATES AND SHEETS

96 - 97

Tailor-made

We deliver for each requirement the suiting sheet. Our product range offers you heat and highly corrosion resistant plates and sheets in all kind of sizes, thicknesses and grades, cut to your individual need.

Plates and sheets

cold-rolled (model type 2C or 2D or 2B or 2R)

hot-rolled (model type 1C or 1D)

cold-rolled dimensions can be also delivered polished (different grain sizes), brushed and coated with foil (one or both sides); hot-rolled dimensions available on request

* solution annealed

Dimension standards

cold-rolled: DIN EN 10259

hot-rolled: DIN EN 10051 or DIN EN 10029

Test certificates

DIN EN 10204 3.1, some 3.2 TÜV approved

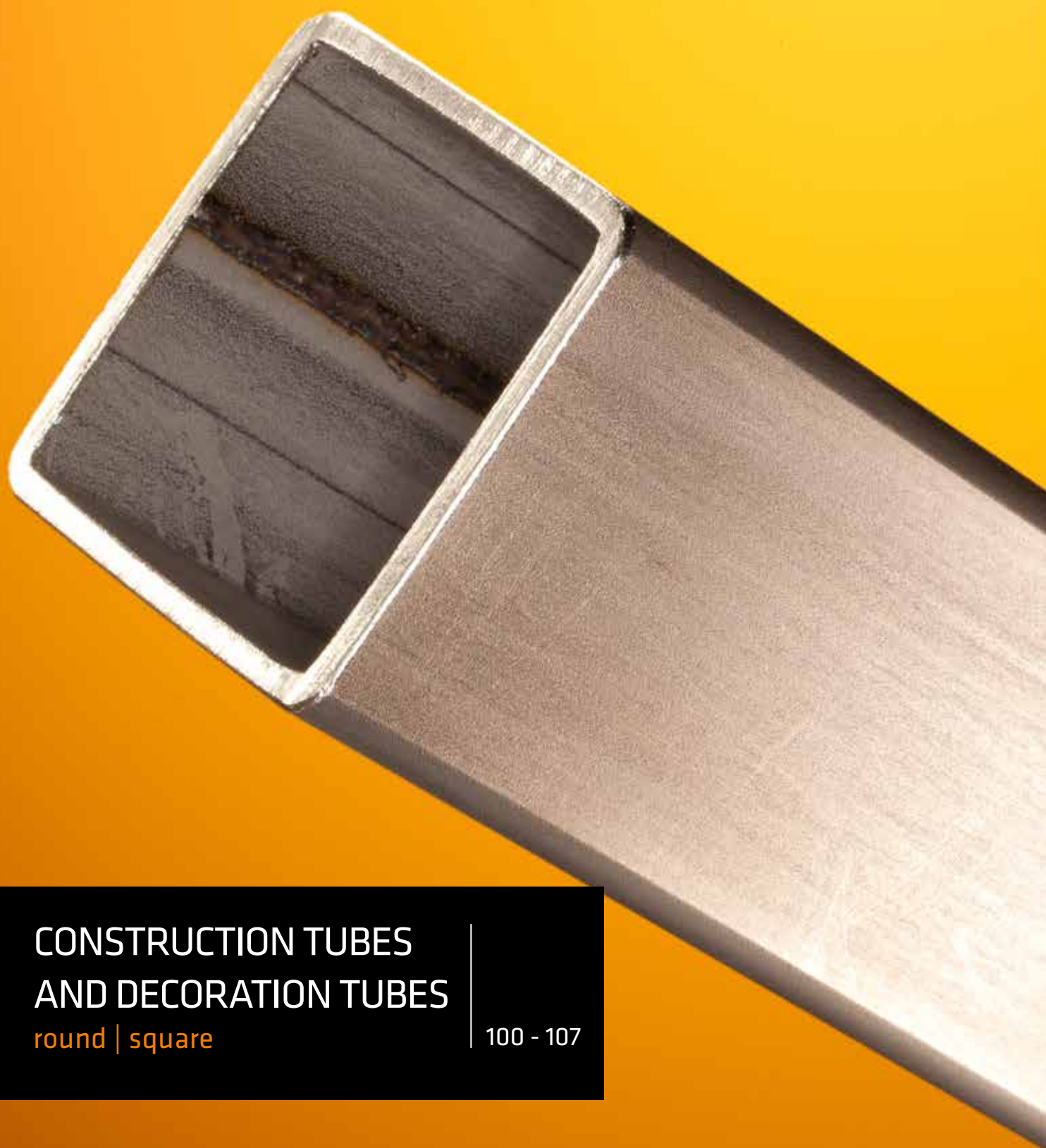
* Classification see page 96

various sizes			
thickness mm			
	grade	Duplex	highly corrosion resistant
	AISI/UNS	1.4462	1.4539
	kg/m ²	S31803	904L
		*)	*)
1,50	11,78	▪	▪
2,00	15,70	▪	▪
3,00	23,55	▪	▪
4,00	31,40	▪	▪
5,00	39,25	▪	▪
6,00	47,10	▪	▪
8,00	62,80	▪	▪
10,00	78,50	▪	▪
12,00	94,20	▪	▪
15,00	117,75	▪	▪
20,00	157,00	▪	▪
30,00	235,50	▪	▪

various sizes				
thickness mm	heat resistant			
	grade	1.4828	1.4841	1.4845
	AISI	309	314	310S
	kg/m ²	*)	*)	*)
1,50	11,78	▪	▪	
2,00	15,70	▪	▪	▪
3,00	23,55	▪	▪	▪
4,00	31,40	▪	▪	▪
5,00	39,25	▪	▪	▪
6,00	47,10	▪	▪	▪
8,00	62,80	▪	▪	▪
10,00	78,50	▪	▪	▪
12,00	94,20	▪	▪	▪
15,00	117,75	▪	▪	▪
20,00	157,00	▪	▪	▪
30,00	235,50	▪	▪	

* finishes see page 95





CONSTRUCTION TUBES AND DECORATION TUBES

round | square

100 - 107

From constructive to creative

Welded construction and decoration tubes – square or round, from sheet or strip – offer you an unlimited scope for construction and design. In the same constructive and creative way we select the products for our range. Get convinced by our services cutting to fixed lengths and mitre cutting.

Construction tubes | decoration tubes

in random lengths of approx. 6 m

Round and square tubes from strip or sheet – not heat-treated: mill finish, pickled or ground on the outside; heat-treated and polished on the outside

* solution annealed, pickled or mill finish

Technical terms of delivery

DIN EN 10088-1 or 10088-2

Tolerances

Requirements according to agreement

Test certificates

EN 10204 3.1 or 2.2 according to agreement

* Classification see page 100 - 107

Decoration tubes | round

outside-Ø	wall thickness	stainless				
		grade	1.4301	1.4301	1.4404	1.4571
		AISI	304	304	316L	316Ti
			*)	*)	*)	*)
mm	mm	kg/m		polished grain 240 or 320	polished grain 240 or 320	polished grain 240 or 320
10,00	1,50	0,32	▪	▪		
12,00	1,00	0,28	▪			
12,00	1,50	0,39	▪	▪		
12,00	2,00	0,50	▪	▪		
14,00	1,00	0,33	▪			
14,00	1,50	0,47	▪	▪		
14,00	2,00	0,60	▪			
15,00	1,00	0,35	▪			
15,00	1,50	0,51	▪	▪		
15,00	2,00	0,65	▪	▪		
16,00	1,00	0,38	▪			
16,00	1,50	0,54	▪	▪		
16,00	2,00	0,70	▪	▪		
17,20	2,00	0,76	▪	▪		
18,00	1,00	0,43	▪	▪		
18,00	1,50	0,62	▪			
18,00	2,00	0,80	▪			
20,00	1,00	0,48	▪	▪		
20,00	1,50	0,69	▪	▪		
20,00	2,00	0,90	▪	▪		
20,00	2,50	1,10	▪			
20,00	3,00	1,28	▪			
21,30	1,50	0,74	▪			
21,30	2,00	0,97	▪	▪		
21,30	2,50	1,18	▪	▪		
21,30	3,00	1,37	▪			
22,00	1,00	0,53	▪			
22,00	1,50	0,77	▪			
22,00	2,00	1,00	▪			
23,00	1,50	0,81	▪			
25,00	1,00	0,60	▪			
25,00	1,20	0,72	▪			
25,00	1,50	0,88	▪	▪		
25,00	2,00	1,15	▪	▪	▪	
25,00	2,50	1,41	▪			
25,00	3,00	1,65	▪			

1) heat-treated

2) industrial polished

* finishes see page 99

Please consider also the possibilities of our surface refinement centre.

outside-Ø	wall thickness	stainless				
		grade	1.4301	1.4301	1.4404	1.4571
		AISI	304	304	316L	316Ti
			*)	*)	*)	*)
mm	mm	kg/m		polished grain 240 or 320	polished grain 240 or 320	polished grain 240 or 320
26,90	1,50	0,95	▪			
26,90	2,00	1,25	▪	▪		
26,90	2,50	1,53	▪	▪		
26,90	2,60	1,58		▪ ¹⁾		
26,90	3,00	1,80	▪			
28,00	1,00	0,68	▪			
28,00	1,50	1,00	▪	▪		
28,00	2,00	1,30	▪	▪ ¹⁾		
28,00	2,50	1,60		▪ ¹⁾		
30,00	1,00	0,73	▪			
30,00	1,50	1,07	▪	▪		
30,00	2,00	1,40	▪	▪		
30,00	2,50	1,72	▪	▪		
30,00	3,00	2,03	▪	▪ ¹⁾		
32,00	1,50	1,15	▪			
32,00	2,00	1,50	▪			
33,70	1,50	1,21	▪			
33,70	2,00	1,59	▪	▪ ¹⁾	▪ ²⁾	▪ ¹⁾
33,70	2,50	1,95	▪	▪		
33,70	2,60	2,02		▪ ¹⁾		▪ ¹⁾
33,70	3,00	2,31	▪	▪		
35,00	1,50	1,26	▪			
35,00	2,00	1,65	▪	▪		
35,00	2,50	2,03	▪	▪ ¹⁾		
35,00	3,00	2,40	▪	▪ ¹⁾		
38,00	1,00	0,93	▪	▪ ¹⁾		
38,00	1,50	1,37	▪			
38,00	2,00	1,80	▪	▪ ¹⁾		
38,00	2,50	2,22	▪			
38,00	3,00	2,63	▪			
40,00	1,00	0,98	▪			
40,00	1,50	1,45	▪	▪		
40,00	2,00	1,90	▪	▪		
40,00	2,50	2,35	▪			
40,00	3,00	2,78	▪	▪		
40,00	4,00	3,61	▪			

1) heat-treated

2) industrial polished

* finishes see page 99

Please consider also the possibilities of our surface refinement centre.

Decoration tubes | round

outside-Ø	wall thickness	stainless				
		grade	1.4301	1.4301	1.4404	1.4571
		AISI	304	304	316L	316Ti
			*)	*)	*)	*)
mm	mm	kg/m		polished grain 240 or 320	polished grain 240 or 320	polished grain 240 or 320
42,40	1,50	1,54	▪	▪		
42,40	2,00	2,02	▪	▪ ¹⁾	▪ ²⁾	▪ ¹⁾
42,40	2,50	2,50	▪	▪		
42,40	2,60	2,59		▪ ¹⁾		▪ ¹⁾
42,40	3,00	2,96	▪	▪		
42,40	4,00	3,85	▪			
45,00	1,50	1,63	▪			
45,00	2,00	2,15	▪			
45,00	3,00	3,16	▪			
48,30	1,50	1,76	▪			
48,30	2,00	2,32	▪	▪ ¹⁾	▪	▪
48,30	2,50	2,87	▪	▪		
48,30	2,60	2,98		▪ ¹⁾		
48,30	3,00	3,40	▪	▪		
48,30	4,00	4,44	▪			
50,00	1,00	1,23	▪			
50,00	1,50	1,82	▪			
50,00	2,00	2,40	▪	▪		
50,00	3,00	3,53	▪			
50,00	4,00	4,61	▪			
50,80	2,00	2,44	▪			
54,00	2,00	2,60	▪			
60,30	1,50	2,21	▪	▪		
60,30	2,00	2,92	▪	▪		
60,30	2,50	3,62	▪	▪		
60,30	3,00	4,30	▪	▪		
60,30	4,00	5,64	▪			
70,00	1,50	2,57	▪			
70,00	2,00	3,41	▪			
70,00	3,00	5,03	▪			
70,00	4,00	6,61	▪			
76,10	1,50	2,80	▪			
76,10	2,00	3,71	▪	▪		
76,10	2,50	4,61	▪			
76,10	3,00	5,49	▪	▪		
76,10	4,00	7,22	▪			

1) heat-treated

2) industrial polished

* finishes see page 99

Please consider also the possibilities of our surface refinement centre.

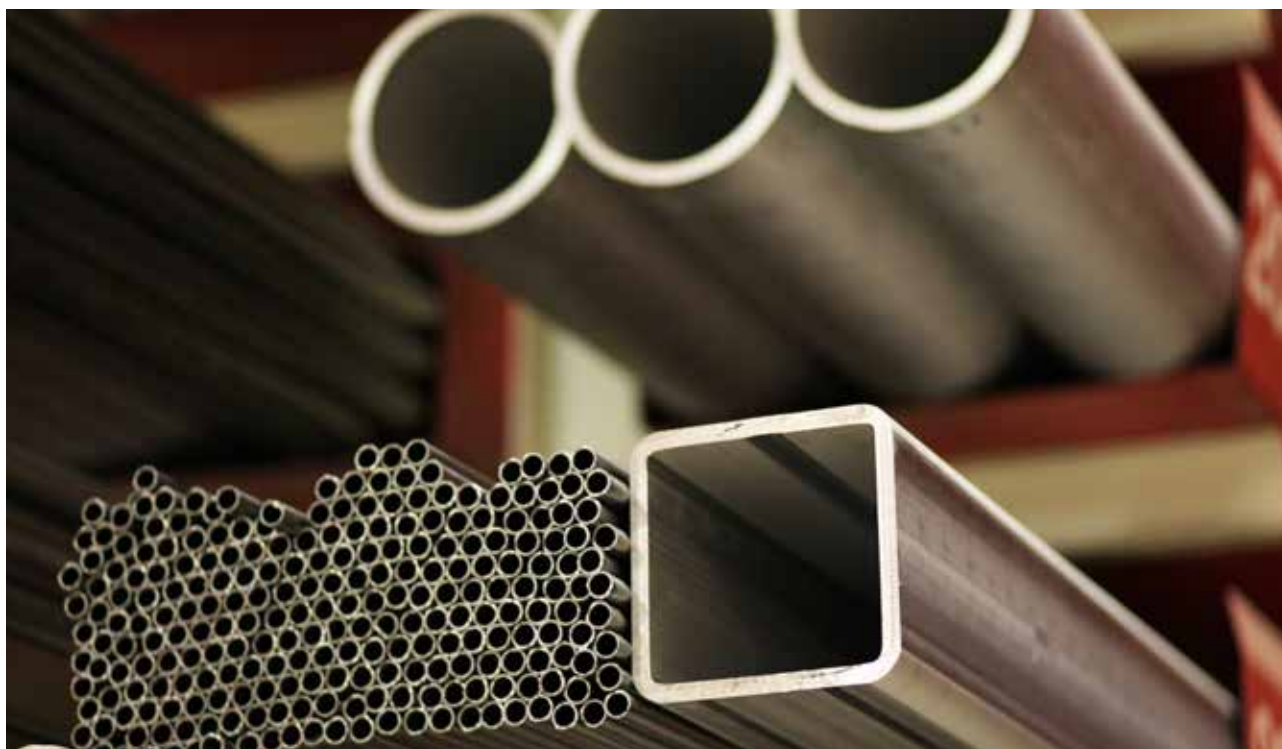
outside-Ø	wall thickness	stainless				
		grade	1.4301	1.4301	1.4404	1.4571
		AISI	304	304	316L	316Ti
			*)	*)	*)	*)
mm	mm	kg/m		polished grain 240 or 320	polished grain 240 or 320	polished grain 240 or 320
80,00	1,50	2,95		▪		
80,00	2,00	3,91	▪			
80,00	3,00	5,78	▪			
80,00	4,00	7,61	▪			
84,00	2,00	4,11	▪			
88,90	2,00	4,35	▪	▪		
88,90	2,50	5,41	▪			
88,90	3,00	6,45	▪	▪		
88,90	4,00	8,50	▪	▪		
101,60	1,50	3,76	▪			
101,60	2,00	4,99	▪	▪		
101,60	3,00	7,41	▪	▪		
101,60	4,00	9,78	▪			
104,00	2,00	5,11	▪			
114,30	2,00	5,62	▪			
114,30	3,00	8,36	▪	▪		
114,30	4,00	11,05	▪	▪		
168,30	2,00	8,33	▪			

1) heat-treated

2) industrial polished

* finishes see page 99

Please consider also the possibilities of our surface refinement centre.



outside-Ø	wall thickness	stainless				
		grade	1.4301	1.4404	1.4571	1.4301
		AISI	304	316L	316Ti	304
			*)	*)	*)	*)
mm	mm	kg/m				polished grain 240 or 320
10 x 10	1,00	0,30	▪			
15 x 15	1,50	0,68	▪	▪	▪	▪
20 x 10	1,50	0,68	▪		▪	▪
20 x 15	1,50	0,80	▪			
20 x 20	1,00	0,63	▪			
20 x 20	1,20	0,75	▪			▪
20 x 20	1,50	0,92	▪	▪	▪	▪
20 x 20	2,00	1,20	▪	▪	▪	▪
25 x 15	1,50	0,92	▪			
25 x 25	1,20	0,94	▪			▪
25 x 25	1,50	1,16	▪	▪		▪
25 x 25	2,00	1,53	▪	▪	▪	▪
25 x 25	2,50	1,88	▪			
30 x 10	1,50	0,92	▪			
30 x 15	1,50	1,04	▪			▪
30 x 20	1,20	0,94	▪			
30 x 20	1,50	1,16	▪			▪
30 x 20	2,00	1,53	▪	▪	▪	▪
30 x 30	1,20	1,14	▪			▪
30 x 30	1,50	1,41	▪	▪		▪
30 x 30	2,00	1,85	▪	▪	▪	▪
30 x 30	3,00	2,70	▪	▪	▪	
35 x 35	1,20	1,33	▪			▪
35 x 35	1,50	1,65	▪			▪
35 x 35	2,00	2,18	▪	▪		▪
35 x 35	3,00	3,19	▪			
40 x 10	1,50	1,16	▪			
40 x 10	2,00	1,53	▪			
40 x 15	1,50	1,29	▪			
40 x 15	2,00	1,69	▪			
40 x 20	1,20	1,14				▪
40 x 20	1,50	1,41	▪		▪	▪
40 x 20	2,00	1,85	▪	▪	▪	▪
40 x 30	2,00	2,18	▪	▪	▪	▪
40 x 30	3,00	3,19	▪			
40 x 40	1,20	1,53	▪			▪
40 x 40	1,50	1,90	▪	▪	▪	▪
40 x 40	2,00	2,50	▪	▪	▪	▪
40 x 40	3,00	3,68	▪	▪	▪	▪

* finishes see page 99

Please consider also the possibilities of our surface refinement centre.

outside-Ø	wall thickness	stainless				
		grade	1.4301	1.4404	1.4571	1.4301
		AISI	304	316L	316Ti	304
			*)	*)	*)	*)
mm	mm	kg/m				polished grain 240 or 320
40 x 40	4,00	4,81	▪	▪	▪	
45 x 45	2,00	2,83	▪			
45 x 45	3,00	4,17	▪			
50 x 10	1,50	1,41	▪			
50 x 20	1,50	1,65	▪		▪	▪
50 x 20	2,00	2,18	▪	▪		▪
50 x 25	2,00	2,34	▪	▪		▪
50 x 30	1,50	1,90	▪			
50 x 30	2,00	2,50	▪	▪	▪	▪
50 x 30	3,00	3,68	▪	▪	▪	
50 x 40	2,00	2,83	▪			
50 x 40	3,00	4,17	▪			
50 x 50	1,50	2,39	▪			▪
50 x 50	2,00	3,16	▪	▪	▪	▪
50 x 50	2,50	3,91	▪			▪
50 x 50	3,00	4,66	▪	▪	▪	▪
50 x 50	4,00	6,11	▪	▪		
50 x 50	5,00	7,51	▪		▪	
60 x 20	2,00	2,50	▪	▪		▪
60 x 30	1,50	2,14				▪
60 x 30	2,00	2,83	▪	▪	▪	▪
60 x 30	3,00	4,17	▪	▪	▪	
60 x 40	1,50	2,39	▪			▪
60 x 40	2,00	3,16	▪	▪	▪	▪
60 x 40	3,00	4,66	▪	▪	▪	▪
60 x 40	4,00	6,11	▪		▪	▪
60 x 60	2,00	3,81	▪	▪	▪	▪
60 x 60	3,00	5,63	▪	▪	▪	▪
60 x 60	4,00	7,41	▪	▪	▪	▪
60 x 60	5,00	9,14	▪	▪	▪	
70 x 70	2,00	4,46	▪			
70 x 70	3,00	6,61	▪		▪	
70 x 70	4,00	8,71	▪	▪	▪	
70 x 70	5,00	10,77	▪			
80 x 20	2,00	3,16	▪			
80 x 40	1,50	2,87				▪
80 x 40	2,00	3,81	▪		▪	▪
80 x 40	3,00	5,63	▪	▪	▪	
80 x 40	4,00	7,41	▪	▪	▪	

* finishes see page 99

Please consider also the possibilities of our surface refinement centre.

outside-Ø	wall thickness	stainless				
		grade	1.4301	1.4404	1.4571	1.4301
		AISI	304	316L	316Ti	304
			*)	*)	*)	*)
mm	mm	kg/m				polished grain 240 or 320
80 x 40	5,00	9,14	▪	▪		
80 x 50	3,00	6,12	▪		▪	▪
80 x 60	2,00	4,46	▪			
80 x 60	3,00	6,61	▪	▪	▪	▪
80 x 60	4,00	8,71	▪	▪	▪	
80 x 60	5,00	10,77	▪	▪	▪	▪
80 x 80	2,00	5,11	▪		▪	▪
80 x 80	2,50	6,35				▪
80 x 80	3,00	7,59	▪	▪	▪	▪
80 x 80	4,00	10,02	▪	▪	▪	▪
80 x 80	5,00	12,39	▪	▪		
80 x 80	6,00	14,72	▪			
100 x 20	2,00	3,81	▪			
100 x 40	2,00	4,46	▪	▪		▪
100 x 40	3,00	6,61	▪	▪		
100 x 40	4,00	8,71	▪		▪	
100 x 40	5,00	10,77	▪			
100 x 50	2,00	4,78	▪	▪		▪
100 x 50	3,00	7,10	▪	▪	▪	▪
100 x 50	4,00	9,36	▪	▪	▪	
100 x 50	5,00	11,58	▪	▪		
100 x 60	2,00	5,11	▪		▪	
100 x 60	3,00	7,59	▪	▪		▪
100 x 60	4,00	10,02	▪	▪		
100 x 60	5,00	12,39	▪		▪	
100 x 80	3,00	8,56	▪		▪	
100 x 80	4,00	11,32	▪		▪	
100 x 100	2,00	6,41	▪	▪		▪
100 x 100	3,00	9,54	▪		▪	▪
100 x 100	4,00	12,62	▪	▪	▪	
100 x 100	5,00	15,65	▪	▪	▪	
100 x 100	6,00	18,63	▪	▪	▪	
100 x 100	8,00	24,44	▪			
100 x 100	10,00	30,05	▪			
120 x 40	2,00	5,11		▪	▪	
120 x 40	3,00	7,59	▪		▪	▪
120 x 40	4,00	10,02	▪			
120 x 60	2,00	5,76	▪			
120 x 60	3,00	8,56	▪		▪	▪

* finishes see page 99

Please consider also the possibilities of our surface refinement centre.

outside-Ø	wall thickness	stainless				
		grade	1.4301	1.4404	1.4571	1.4301
		AISI	304	316L	316Ti	304
			*)	*)	*)	*)
mm	mm	kg/m				polished grain 240 or 320
120 x 60	4,00	11,32	▪	▪		
120 x 60	5,00	14,02	▪	▪	▪	
120 x 60	6,00	16,68	▪			
120 x 80	3,00	9,54	▪	▪	▪	
120 x 80	4,00	12,62	▪	▪	▪	
120 x 80	5,00	15,65	▪	▪	▪	
120 x 120	3,00	11,49	▪	▪	▪	
120 x 120	4,00	15,22	▪	▪	▪	
120 x 120	5,00	18,91	▪	▪	▪	
120 x 120	6,00	22,54	▪			
120 x 120	8,00	29,65	▪			
140 x 80	3,00	10,52	▪			
140 x 80	4,00	13,92	▪	▪	▪	
140 x 80	5,00	17,28	▪			
150 x 50	3,00	9,54	▪	▪	▪	
150 x 50	4,00	12,62	▪	▪	▪	
150 x 50	5,00	15,65		▪	▪	
150 x 100	3,00	11,98	▪	▪	▪	
150 x 100	4,00	15,88	▪	▪	▪	
150 x 100	5,00	19,72	▪	▪	▪	
150 x 100	8,00	30,95	▪			
150 x 100	10,00	38,19	▪			
150 x 150	3,00	14,42	▪	▪	▪	
150 x 150	4,00	19,13	▪	▪	▪	
150 x 150	5,00	23,79	▪	▪	▪	
150 x 150	6,00	28,40	▪			
150 x 150	8,00	37,46	▪			
150 x 150	10,00	46,32	▪			
160 x 80	3,00	11,49	▪			
160 x 80	4,00	15,22	▪			
160 x 80	5,00	18,91	▪	▪	▪	
200 x 100	3,00	14,42	▪	▪	▪	
200 x 100	4,00	19,13	▪	▪	▪	
200 x 100	5,00	23,79	▪	▪	▪	
200 x 100	6,00	28,40	▪		▪	
200 x 100	8,00	37,46	▪			
200 x 200	4,00	25,64	▪			
200 x 200	5,00	31,93	▪		▪	
250 x 150	5,00	31,93	▪			

* finishes see page 99

Please consider also the possibilities of our surface refinement centre.



**CORROSION PIPES
AND TUBES**

round | seamless and welded

110 - 133

To be one step ahead

Great demands are made on corrosion pipes and tubes. For this reason we stock a range, which is wider and deeper than that of many other suppliers. It ranges from seamless to welded, from stainless, through highly corrosion resistant to heat resistant. You certainly will find the appropriate product.

Corrosion pipes and tubes | round

in random lengths of 4 to 7 m

* solution annealed, pickled or metal bright and not annealed, pickled or metal bright

Seamless corrosion pipes and tubes

Hot- (HFD) or cold-formed (CFD or CFA), pickled or metal bright surface

Technical terms of delivery

EN 10305-1, EN 10216-5 TC1 and/or TC2, also in combination with AD 2000 leaflet W2. VdTÜV-sheet 418, VdTÜV-sheet 421. ASTM A 213, ASTM A 312.

Dimension standards

DIN EN ISO 1127, tolerance classes:

Cold-formed pipes D2/T3 or D3/T3 or D4/T3. Hot-formed pipes D1/T1 or D2/T2. ASTM A 530, A 999.

Cold-formed pipes (hydraulic tubes) with an outer diameter from 6 to 42 mm, DIN EN ISO 1127 D4/T3 following DIN EN 10305-1. ASTM A 269.

Welded corrosion pipes and tubes

Tubes from strip or sheet, heat-treated and pickled or blank annealed; respectively not annealed, pickled or mill finish; model type „b“ (removed welding seam) according to EN 10217-7 table 2 or DIN 11850 table 4 or EN 10357 table 3 according to agreement.

Technical terms of delivery

EN 10217-7 TC 1/TC 2, also in combination with AD 2000 leaflet W 2/W 10.

EN 10296-2. DIN 11850/EN 10357:2013 in combination with EN 10217-7 TC1, ASTM A312 and ASTM A 778. PAS 1057-11.

Dimension standards

DIN EN ISO 1127, tolerance classes:

D2/T2 or D2/T3 or D3/T3 or D4/T3 DIN 11850 ASTM A 999 and ASTM A 530.

Test certificates

DIN EN 10204 3.1 or 3.2 according to agreement

* Classification see page 110 - 132

outside- Ø mm	wall thick- ness mm	ASME size	stainless							
			grade	1.4301	1.4306	1.4307	1.4401	1.4404	1.4541	1.4571
			AISI	304	304L	304L	316	316L	321	316Ti
			kg/m	*)	*)	*)	*)	*)	*)	*)
4,00	0,50		0,04							▪
4,00	1,00		0,08	▪		▪				▪
5,00	1,00		0,10	▪		▪				▪
6,00	1,00		0,13	▪		▪	▪	▪	▪	▪
6,00	1,50		0,17						▪	▪
8,00	1,00		0,18	▪		▪	▪	▪	▪	▪
8,00	1,50		0,24	▪		▪				▪
8,00	2,00		0,30	▪		▪			▪	▪
10,00	1,00		0,23	▪		▪	▪	▪	▪	▪
10,00	1,50		0,32	▪		▪			▪	▪
10,00	2,00		0,40	▪		▪			▪	▪
10,00	2,50		0,47	▪		▪				
10,20	2,00		0,41				▪	▪		
12,00	1,00		0,28	▪	▪	▪	▪	▪	▪	▪
12,00	1,50		0,39	▪	▪	▪			▪	▪
12,00	2,00		0,50	▪	▪	▪			▪	▪
12,00	2,50		0,59	▪	▪	▪				
13,50	1,60		0,48						▪	▪
13,50	2,30		0,65	▪	▪	▪	▪	▪	▪	▪
13,70	3,02	1/4" SCH 80S	0,81				▪	▪		
14,00	2,00		0,60	▪	▪	▪				▪
14,00	2,50		0,72						▪	
14,00	3,00		0,83				▪	▪		
15,00	1,00		0,35				▪	▪		
15,00	1,50		0,51	▪	▪	▪			▪	▪
15,00	2,00		0,65	▪	▪	▪			▪	▪
16,00	1,00		0,38	▪	▪	▪				▪
16,00	1,50		0,54	▪	▪	▪			▪	▪
16,00	2,00		0,70	▪	▪	▪	▪	▪	▪	▪
16,00	2,50		0,85						▪	▪
16,00	3,00		0,98						▪	▪
17,20	1,60		0,62	▪	▪	▪				▪
17,20	2,00		0,76	▪	▪	▪			▪	▪
17,20	2,30		0,86	▪	▪	▪	▪	▪	▪	▪
18,00	1,00		0,43	▪	▪	▪	▪	▪		▪
18,00	1,50		0,62	▪	▪	▪			▪	▪
18,00	2,00		0,80	▪	▪	▪			▪	▪
18,00	2,50		0,97						▪	▪
18,00	3,00		1,13						▪	▪

* finishes see page 109

outside- Ø mm	wall thick- ness mm	ASME size	stainless							
			grade	1.4301	1.4306	1.4307	1.4401	1.4404	1.4541	1.4571
			AISI	304	304L	304L	316	316L	321	316Ti
			kg/m	*)	*)	*)	*)	*)	*)	*)
18,00	4,00		1,40	▪	▪	▪			▪	
20,00	1,50		0,69	▪	▪	▪				▪
20,00	2,00		0,90	▪	▪	▪			▪	▪
20,00	2,50		1,10	▪	▪	▪			▪	▪
20,00	3,00		1,28	▪	▪	▪			▪	
20,00	4,00		1,60						▪	▪
20,00	5,00		1,88						▪	▪
20,00	6,00		2,10						▪	
21,30	1,60		0,79	▪	▪	▪				▪
21,30	2,00		0,97	▪	▪	▪	▪	▪	▪	▪
21,30	2,11	1/2" SCH 10S	1,01	▪		▪	▪	▪	▪	▪
21,30	2,60		1,22	▪	▪	▪			▪	▪
21,30	2,77	1/2" SCH 40S	1,29	▪	▪	▪	▪	▪	▪	▪
21,30	2,90		1,34							▪
21,30	3,20		1,45	▪	▪	▪				▪
21,30	3,73	1/2" SCH 80S	1,64	▪	▪	▪	▪	▪	▪	▪
21,30	4,78	1/2" SCH 160	1,98						▪	▪
21,30	7,47	1/2" XXS	2,59	▪	▪	▪				
22,00	1,00		0,53							▪
22,00	1,50		0,77	▪	▪	▪			▪	▪
22,00	2,00		1,00	▪	▪	▪			▪	▪
22,00	3,00		1,43						▪	
25,00	1,50		0,88	▪	▪	▪				▪
25,00	2,00		1,15	▪	▪	▪			▪	▪
25,00	2,50		1,41	▪	▪	▪	▪	▪	▪	▪
25,00	3,00		1,65	▪	▪	▪	▪	▪	▪	▪
25,00	4,00		2,10						▪	
25,00	5,00		2,50	▪	▪	▪			▪	▪
26,70	2,11	3/4" SCH 10S	1,30	▪	▪	▪	▪	▪	▪	
26,70	2,87	3/4" SCH 40S	1,71	▪	▪	▪	▪	▪	▪	
26,70	3,91	3/4" SCH 80S	2,23	▪	▪	▪	▪	▪	▪	▪
26,70	5,56	3/4" SCH 160	2,94	▪	▪	▪				▪
26,70	7,82	3/4" XXS	3,70	▪	▪	▪	▪	▪		
26,90	2,00		1,25	▪	▪	▪			▪	▪
26,90	2,30		1,42							▪
26,90	2,60		1,58	▪	▪	▪	▪	▪	▪	▪
26,90	3,20		1,90	▪	▪	▪			▪	▪
28,00	1,50		1,00	▪	▪	▪			▪	▪
28,00	2,00		1,30	▪	▪	▪			▪	▪

* finishes see page 109

outside- Ø mm	wall thick- ness mm	ASME size	stainless							
			grade	1.4301	1.4306	1.4307	1.4401	1.4404	1.4541	1.4571
			AISI	304	304L	304L	316	316L	321	316Ti
			kg/m	*)	*)	*)	*)	*)	*)	*)
28,00	2,50		1,60							▪
28,00	3,00		1,88						▪	▪
30,00	2,00		1,40	▪	▪	▪			▪	▪
30,00	2,60		1,78	▪	▪	▪				▪
30,00	3,00		2,03	▪	▪	▪	▪	▪	▪	▪
30,00	4,00		2,60				▪	▪	▪	▪
30,00	5,00		3,13	▪	▪	▪			▪	▪
32,00	2,00		1,50	▪	▪	▪				
33,40	2,77	1" SCH 10S	2,12	▪	▪	▪	▪	▪	▪	▪
33,40	3,38	1" SCH 40S	2,54	▪	▪	▪	▪	▪	▪	▪
33,40	4,55	1" SCH 80S	3,29	▪	▪	▪	▪	▪	▪	▪
33,40	6,35	1" SCH 160	4,30				▪	▪		
33,70	2,00		1,59	▪	▪	▪			▪	▪
33,70	2,60		2,02	▪	▪	▪	▪	▪	▪	▪
33,70	3,20		2,44	▪	▪	▪	▪	▪	▪	▪
33,70	3,60		2,71						▪	
33,70	4,05		3,01	▪	▪	▪			▪	▪
35,00	3,00		2,40							▪
36,00	2,00		1,70							▪
38,00	2,00		1,80	▪	▪	▪			▪	▪
38,00	2,60		2,30	▪	▪	▪				▪
38,00	3,00		2,63	▪	▪	▪				▪
38,00	4,00		3,41				▪	▪	▪	▪
38,00	5,00		4,13	▪	▪	▪			▪	▪
40,00	2,00		1,90	▪	▪	▪			▪	
40,00	2,50		2,35	▪	▪	▪				
40,00	3,00		2,78	▪	▪	▪				
40,00	5,00		4,38	▪	▪	▪			▪	▪
42,00	3,00		2,93				▪	▪		
42,20	2,77	1 1/4" SCH 10S	2,73	▪		▪	▪	▪	▪	▪
42,20	3,56	1 1/4" SCH 40S	3,44	▪	▪	▪	▪	▪	▪	▪
42,20	4,85	1 1/4" SCH 80S	4,54	▪	▪	▪	▪	▪		▪
42,20	6,35	1 1/4" SCH 160	5,70	▪	▪	▪	▪	▪		
42,40	2,00		2,02	▪	▪	▪			▪	▪
42,40	2,60		2,59	▪	▪	▪	▪	▪	▪	▪
42,40	3,20		3,14	▪	▪	▪	▪	▪	▪	▪
42,40	4,05		3,89	▪	▪	▪			▪	▪
44,50	2,00		2,13	▪	▪	▪				▪
44,50	2,60		2,73	▪	▪	▪				▪

* finishes see page 109

outside- Ø mm	wall thick- ness mm	ASME size	stainless							
			grade	1.4301	1.4306	1.4307	1.4401	1.4404	1.4541	1.4571
			AISI	304	304L	304L	316	316L	321	316Ti
			kg/m	*)	*)	*)	*)	*)	*)	*)
48,30	2,00		2,32	▪	▪	▪			▪	▪
48,30	2,60		2,98	▪	▪	▪	▪	▪	▪	▪
48,30	2,77	1 1/2" SCH 10S	3,16	▪		▪	▪	▪	▪	▪
48,30	3,20		3,61	▪	▪	▪	▪	▪	▪	▪
48,30	3,68	1 1/2" SCH 40S	4,11	▪	▪	▪	▪	▪	▪	▪
48,30	4,05		4,49	▪	▪	▪			▪	▪
48,30	5,08	1 1/2" SCH 80S	5,50	▪	▪	▪	▪	▪	▪	▪
48,30	7,14	1 1/2" SCH 160	7,36				▪	▪		
48,30	10,15	1 1/2" XXS	9,70	▪	▪	▪				
50,00	2,00		2,40	▪	▪	▪			▪	
50,00	4,00		4,61							▪
50,00	5,00		5,63	▪	▪	▪			▪	▪
50,00	6,00		6,61	▪	▪	▪				▪
51,00	2,60		3,15	▪	▪	▪				▪
54,00	2,00		2,60	▪	▪	▪				▪
55,00	5,00		6,26	▪	▪	▪				
57,00	2,00		2,75	▪	▪	▪				▪
57,00	2,60		3,54						▪	
57,00	2,90		3,93	▪	▪	▪			▪	
57,00	3,00		4,06							▪
60,00	5,00		6,89	▪	▪	▪				▪
60,30	2,00		2,92	▪	▪	▪			▪	▪
60,30	2,60		3,76	▪	▪	▪	▪	▪	▪	▪
60,30	2,77	2" SCH 10S	3,99	▪	▪	▪	▪	▪	▪	▪
60,30	2,90		4,17	▪	▪	▪			▪	▪
60,30	3,20		4,58				▪	▪	▪	▪
60,30	3,60		5,11	▪	▪	▪				▪
60,30	3,91	2" SCH 40S	5,52	▪	▪	▪	▪	▪	▪	▪
60,30	4,50		6,29	▪	▪	▪			▪	▪
60,30	5,54	2" SCH 80S	7,60	▪	▪	▪	▪	▪	▪	▪
60,30	8,74	2" SCH 160	11,28	▪	▪	▪	▪	▪	▪	▪
70,00	2,90		4,87	▪	▪	▪				▪
70,00	5,00		8,14	▪					▪	▪
73,00	3,05	2 1/2" SCH 10S	5,34	▪	▪	▪	▪	▪		▪
73,00	5,16	2 1/2" SCH 40S	8,77	▪	▪	▪	▪	▪	▪	▪
73,00	7,01	2 1/2" SCH 80S	11,58	▪	▪	▪	▪	▪	▪	
73,00	9,53	2 1/2" SCH 160	15,15				▪	▪		
73,00	14,02	2 1/2" XXS	20,71	▪	▪	▪	▪	▪		
76,10	2,00		3,71						▪	

* finishes see page 109

outside- Ø mm	wall thick- ness mm	ASME size	stainless							
			grade	1.4301	1.4306	1.4307	1.4401	1.4404	1.4541	1.4571
			AISI	304	304L	304L	316	316L	321	316Ti
			kg/m	*)	*)	*)	*)	*)	*)	*)
76,10	2,60		4,79	▪	▪	▪	▪	▪		
76,10	2,90		5,32	▪	▪	▪			▪	▪
76,10	3,20		5,84						▪	
76,10	3,60		6,54	▪	▪	▪	▪	▪	▪	▪
76,10	4,50		8,07	▪	▪	▪			▪	▪
76,10	6,30		11,01						▪	▪
80,00	5,00		9,39	▪	▪	▪				▪
88,90	2,00		4,35							▪
88,90	2,60		5,62	▪	▪	▪			▪	
88,90	2,90		6,24	▪	▪	▪			▪	
88,90	3,05	3" SCH 10S	6,56	▪	▪	▪	▪	▪	▪	▪
88,90	3,20		6,87	▪	▪	▪			▪	▪
88,90	3,60		7,69	▪	▪	▪			▪	
88,90	4,05		8,60	▪	▪	▪			▪	▪
88,90	4,50		9,51	▪	▪	▪				▪
88,90	5,49	3" SCH 40S	11,47	▪	▪	▪	▪	▪	▪	▪
88,90	7,62	3" SCH 80S	15,51	▪	▪	▪	▪	▪	▪	▪
90,00	5,00		10,64	▪						▪
101,60	3,05	3 1/2" SCH 10S	7,53	▪	▪	▪	▪	▪	▪	▪
101,60	4,05		9,89	▪	▪	▪			▪	
101,60	5,74	3 1/2" SCH 40S	13,78	▪	▪	▪	▪	▪	▪	▪
108,00	3,00		7,89	▪	▪	▪			▪	▪
108,00	4,00		10,42	▪	▪	▪			▪	▪
108,00	5,00		12,90							▪
114,30	2,60		7,27						▪	▪
114,30	3,05	4" SCH 10S	8,50	▪	▪	▪	▪	▪	▪	▪
114,30	3,60		9,98	▪	▪	▪			▪	▪
114,30	4,50		12,37	▪	▪	▪				▪
114,30	6,02	4" SCH 40S	16,32	▪	▪	▪	▪	▪	▪	▪
114,30	7,11		19,08	▪	▪	▪				
114,30	8,56	4" SCH 80S	22,66	▪	▪	▪	▪	▪	▪	▪
121,00	4,00		11,72						▪	
133,00	4,00		12,92	▪	▪	▪			▪	▪
139,70	4,00		13,59						▪	▪
141,30	3,40	5" SCH 10S	11,74	▪	▪		▪	▪	▪	
141,30	6,55	5" SCH 40S	22,10	▪	▪	▪	▪	▪	▪	▪
141,30	9,53	5" SCH 80S	31,44	▪	▪		▪	▪	▪	▪
141,30	19,05	5" SCH XXS	58,31	▪	▪	▪				
159,00	4,50		17,41						▪	▪

* finishes see page 109

outside- Ø mm	wall thick- ness mm	ASME size	stainless							
			grade	1.4301	1.4306	1.4307	1.4401	1.4404	1.4541	1.4571
			AISI	304	304L	304L	316	316L	321	316Ti
			kg/m	*)	*)	*)	*)	*)	*)	*)
168,30	3,40	6" SCH 10S	14,04	▪	▪	▪	▪	▪		▪
168,30	4,50		18,46	▪	▪	▪			▪	▪
168,30	5,00		20,45	▪	▪	▪			▪	▪
168,30	7,11	6" SCH 40S	28,70	▪	▪	▪	▪	▪	▪	▪
168,30	10,97	6" SCH 80S	43,22	▪	▪	▪	▪	▪	▪	▪
168,30	18,26	6" SCH 160	68,60				▪	▪		
168,30	21,95	6" SCH XXS	80,44	▪	▪	▪				
219,10	3,76	8" SCH 10S	20,27	▪	▪	▪	▪	▪		
219,10	6,35	8" SCH 20	33,83	▪	▪	▪			▪	▪
219,10	8,18	8" SCH 40S	43,20	▪	▪	▪	▪	▪	▪	▪
219,10	12,70	8" SCH 80S	65,64	▪	▪	▪	▪	▪	▪	▪
273,00	9,27	10" SCH 40S	61,22	▪	▪	▪	▪	▪		▪
273,00	12,70	10" SCH 80S	82,78	▪	▪	▪	▪	▪		▪
323,90	9,53	12" SCH 40S	75,02	▪	▪	▪	▪	▪		▪
323,90	12,70	12" SCH 80S	98,96	▪	▪	▪	▪	▪		▪

* finishes see page 109



outside- Ø mm	wall thick- ness- mm	ASME size	highly corrosion resistant		Duplex/ Superduplex		heat resistant		
			grade	1.4539	1.4462	1.4501	1.4841	1.4845	1.4878
			AISI/ UNS	904L	S31803	S32760	314	310S	321H
			kg/m	*)	*)	*)	*)	*)	*)
6,00	1,00		0,13				▪		▪
6,00	1,50		0,17						▪
8,00	1,00		0,18				▪		▪
8,00	1,50		0,24				▪		
8,00	2,00		0,30						▪
10,00	1,00		0,23				▪		▪
10,00	1,50		0,32						▪
10,00	2,00		0,40						▪
10,20	2,00		0,41				▪		
10,30	2,00		0,42	▪					
12,00	1,00		0,28						▪
12,00	1,50		0,39						▪
12,00	2,00		0,50				▪		▪
13,50	1,60		0,48						▪
13,50	2,30		0,65				▪		
13,50	2,60		0,71						▪
13,70	2,24	1/4" SCH 40S	0,64	▪	▪			▪	
14,00	1,50		0,47				▪		
15,00	1,50		0,51						▪
15,00	2,00		0,65				▪		▪
16,00	1,50		0,54						▪
16,00	2,00		0,70						▪
16,00	2,50		0,85						▪
16,00	3,00		0,98						▪
17,10	2,31	3/8" SCH 40S	0,86	▪					
17,20	2,00		0,76						▪
17,20	2,30		0,86				▪		▪
17,20	2,31	3/8" SCH 40S	0,86		▪			▪	
18,00	1,50		0,62						▪
18,00	2,00		0,80						▪
18,00	2,50		0,97						▪
18,00	3,00		1,13						▪
18,00	4,00		1,40						▪
20,00	2,00		0,90				▪		▪
20,00	2,50		1,10						▪
20,00	3,00		1,28						▪
20,00	4,00		1,60						▪

* finishes see page 109

outside- Ø mm	wall thick- ness- mm	ASME size	highly corrosion resistant		Duplex/ Superduplex		heat resistant		
			grade	1.4539	1.4462	1.4501	1.4841	1.4845	1.4878
			AISI/ UNS	904L	S31803	S32760	314	310S	321H
			kg/m	*)	*)	*)	*)	*)	*)
20,00	5,00		1,88						▪
20,00	6,00		2,10						▪
21,30	2,00		0,97						▪
21,30	2,11	1/2" SCH 10S	1,01	▪	▪				▪
21,30	2,60		1,22				▪		▪
21,30	2,77	1/2" SCH 40S	1,29	▪	▪	▪		▪	▪
21,30	3,73	1/2" SCH 80S	1,64			▪		▪	▪
21,30	4,75	1/2" SCH 160	1,97						▪
22,00	1,50		0,77						▪
22,00	2,00		1,00				▪		▪
22,00	3,00		1,43						▪
25,00	2,00		1,15				▪		▪
25,00	2,50		1,41						▪
25,00	3,00		1,65						▪
25,00	4,00		2,10						▪
25,00	5,00		2,50						▪
26,70	2,11	3/4" SCH 10S	1,30	▪	▪				
26,70	2,87	3/4" SCH 40S	1,71	▪	▪	▪		▪	▪
26,70	3,91	3/4" SCH 80S	2,23	▪		▪	▪	▪	▪
26,90	2,00		1,25				▪		▪
26,90	2,60		1,58				▪		▪
26,90	3,20		1,90						▪
28,00	1,50		1,00						▪
28,00	2,00		1,30						▪
30,00	2,00		1,40				▪		▪
30,00	3,00		2,03						▪
30,00	4,00		2,60						▪
30,00	5,00		3,13						▪
33,40	2,77	1" SCH 10S	2,12	▪	▪				
33,40	3,38	1" SCH 40S	2,54	▪	▪	▪		▪	
33,40	4,55	1" SCH 80S	3,29	▪	▪	▪		▪	▪
33,70	2,00		1,59				▪		▪
33,70	2,60		2,02						▪
33,70	3,20		2,44				▪		▪
33,70	3,60		2,71						▪
33,70	4,05		3,01						▪
38,00	2,00		1,80						▪

* finishes see page 109

outside- Ø mm	wall thick- ness- mm	ASME size	highly corrosion resistant		Duplex/ Superduplex		heat resistant		
			grade	1.4539	1.4462	1.4501	1.4841	1.4845	1.4878
			AISI/ UNS	904L	S31803	S32760	314	310S	321H
			kg/m	*)	*)	*)	*)	*)	*)
38,00	3,00		2,63						▪
38,00	4,00		3,41						▪
38,00	5,00		4,13						▪
40,00	2,00		1,90						▪
40,00	5,00		4,38						▪
42,20	2,77	1 1/4" SCH 10S	2,73	▪	▪				▪
42,20	3,56	1 1/4" SCH 40S	3,44	▪	▪	▪		▪	▪
42,20	4,85	1 1/4" SCH 80S	4,54					▪	
42,40	2,00		2,02						▪
42,40	2,60		2,59						▪
42,40	3,20		3,14				▪		▪
42,40	4,05		3,89						▪
48,30	2,00		2,32						▪
48,30	2,60		2,98						▪
48,30	2,77	1 1/2" SCH 10S	3,16	▪	▪				▪
48,30	3,20		3,61				▪		▪
48,30	3,68	1 1/2" SCH 40S	4,11	▪	▪	▪		▪	▪
48,30	4,00		4,44				▪		
48,30	4,05		4,49						▪
48,30	5,08	1 1/2" SCH 80S	5,50	▪	▪	▪		▪	▪
50,00	2,00		2,40						▪
50,00	5,00		5,63						▪
57,00	2,60		3,54						▪
57,00	2,90		3,93						▪
60,30	2,00		2,92						▪
60,30	2,60		3,76						▪
60,30	2,77	2" SCH 10S	3,99	▪	▪				
60,30	2,90		4,17						▪
60,30	3,00		4,30				▪		
60,30	3,20		4,58						▪
60,30	3,60		5,11				▪		
60,30	3,91	2" SCH 40S	5,52	▪	▪	▪		▪	▪
60,30	4,00		5,64				▪		
60,30	4,50		6,29						▪
60,30	5,54	2" SCH 80S	7,60	▪	▪	▪		▪	▪
60,30	8,74	2" SCH 160S	11,28						▪
70,00	5,00		8,14						▪

* finishes see page 109

outside- Ø mm	wall thick- ness- mm	ASME size	highly corrosion resistant		Duplex/ Superduplex		heat resistant		
			grade	1.4539	1.4462	1.4501	1.4841	1.4845	1.4878
			AISI/ UNS	904L	S31803	S32760	314	310S	321H
			kg/m	*)	*)	*)	*)	*)	*)
73,00	3,05	2 1/2" SCH 10S	5,34		▪			▪	
73,00	5,16	2 1/2" SCH 40S	8,77		▪			▪	▪
73,00	7,01	2 1/2" SCH 80S	11,58						▪
76,10	2,00		3,71						▪
76,10	2,90		5,32						▪
76,10	3,00		5,49				▪		
76,10	3,20		5,84						▪
76,10	3,60		6,54				▪		▪
76,10	4,00		7,22	▪					
76,10	4,50		8,07					▪	▪
76,10	6,30		11,01						▪
88,90	2,60		5,62						▪
88,90	2,90		6,24						▪
88,90	3,00		6,45				▪		
88,90	3,05	3" SCH 10S	6,56	▪	▪	▪			
88,90	3,20		6,87						▪
88,90	3,60		7,69						▪
88,90	4,00		8,50	▪			▪		
88,90	4,05		8,60		▪			▪	▪
88,90	5,49	3" SCH 40S	11,47	▪	▪	▪	▪	▪	▪
88,90	7,62	3" SCH 80S	15,51	▪					▪
101,60	3,05	3 1/2" SCH 10S	7,53						▪
101,60	4,00		9,78				▪	▪	
101,60	4,05		9,89						▪
101,60	5,74	3 1/2" SCH 40S	13,78					▪	▪
108,00	3,00		7,89						▪
108,00	4,00		10,42	▪					▪
114,30	2,60		7,27						▪
114,30	3,00		8,36				▪		
114,30	3,05	4" SCH 10S	8,50	▪	▪				▪
114,30	3,60		9,98						▪
114,30	4,50		12,37					▪	
114,30	6,02	4" SCH 40S	16,32	▪	▪	▪	▪	▪	▪
114,30	8,56	4" SCH 80S	22,66	▪					▪
121,00	4,00		11,72						▪
133,00	4,00		12,92				▪		▪
139,70	4,00		13,59				▪		▪

* finishes see page 109

outside- Ø mm	wall thick- ness- mm	ASME size	highly corrosion resistant		Duplex/ Superduplex		heat resistant		
			grade	1.4539	1.4462	1.4501	1.4841	1.4845	1.4878
			AISI/ UNS	904L	S31803	S32760	314	310S	321H
			kg/m	*)	*)	*)	*)	*)	*)
139,70	5,00		16,86					▪	
141,30	6,55	5" SCH 40S	22,10					▪	▪
141,30	9,53	5" SCH 80S	31,44						▪
159,00	4,50		17,41						▪
159,00	6,00		22,99	▪					
168,30	3,40	6" SCH 10S	14,04		▪				▪
168,30	4,50		18,46				▪	▪	▪
168,30	5,00		20,45						▪
168,30	7,11	6" SCH 40S	28,70	▪	▪	▪		▪	▪
168,30	10,97	6" SCH 80S	43,22						▪
219,10	6,35	8" SCH 20	33,83					▪	▪
219,10	8,18	8" SCH 40S	43,20	▪	▪				▪
219,10	12,70	8" SCH 80S	65,64	▪				▪	▪

* finishes see page 109



outside-Ø mm	wall thickness mm	stainless				
		grade	1.4301	1.4307	1.4541	1.4571
		AISI	304	304L	321	316Ti
		kg/m	*)	*)	*)	*)
6,00	1,00	0,13	▪	▪	▪	▪
6,00	1,50	0,17				▪
8,00	1,00	0,18	▪	▪	▪	▪
8,00	1,50	0,24	▪	▪		▪
10,00	1,00	0,23	▪	▪	▪	▪
10,00	1,50	0,32	▪	▪	▪	▪
10,00	2,00	0,40	▪	▪	▪	▪
12,00	1,00	0,28	▪	▪	▪	▪
12,00	1,50	0,39	▪	▪	▪	▪
12,00	2,00	0,50	▪	▪	▪	▪
14,00	2,00	0,60				▪
14,00	2,50	0,72	▪	▪		
15,00	1,00	0,35	▪	▪		▪
15,00	1,50	0,51	▪	▪	▪	▪
15,00	2,00	0,65	▪	▪		▪
16,00	1,50	0,54	▪	▪	▪	▪
16,00	2,00	0,70	▪	▪	▪	▪
16,00	3,00	0,98	▪	▪		
18,00	1,50	0,62	▪	▪	▪	▪
18,00	2,00	0,80	▪	▪	▪	▪
18,00	2,50	0,97	▪	▪		▪
20,00	1,00	0,48	▪	▪		
20,00	1,50	0,69	▪	▪		▪
20,00	2,00	0,90	▪	▪	▪	▪
22,00	1,50	0,77	▪	▪		▪
22,00	2,00	1,00	▪	▪		▪
22,00	4,00	1,80	▪	▪		
25,00	1,50	0,88	▪	▪		▪
25,00	2,00	1,15	▪	▪	▪	▪
28,00	1,50	1,00	▪	▪	▪	▪
28,00	2,00	1,30	▪	▪	▪	▪
35,00	2,00	1,65	▪	▪		
42,00	2,00	2,00	▪	▪		

* finishes see page 109

outside-Ø	wall thickness	stainless				
		grade	1.4301	1.4307	1.4541	1.4571
		AISI	304	304L	321	316Ti
mm	mm	kg/m	*)	*)	*)	*)
6,00	1,00	0,13	▪	▪	▪	▪
6,00	1,50	0,17	▪	▪	▪	▪
8,00	1,00	0,18	▪	▪	▪	▪
8,00	1,50	0,24	▪	▪	▪	▪
10,00	1,00	0,23	▪	▪	▪	▪
10,00	1,50	0,32	▪	▪	▪	▪
10,00	2,00	0,40	▪	▪	▪	▪
12,00	1,00	0,28	▪	▪	▪	▪
12,00	1,50	0,39	▪	▪	▪	▪
12,00	2,00	0,50	▪	▪	▪	▪
14,00	2,00	0,60	▪	▪	▪	▪
14,00	2,50	0,72				▪
15,00	1,50	0,51	▪	▪		▪
15,00	2,00	0,65	▪	▪	▪	▪
16,00	1,50	0,54	▪	▪		
16,00	2,00	0,70	▪	▪	▪	▪
16,00	2,50	0,85			▪	
16,00	3,00	0,98	▪	▪	▪	▪
17,20	2,00	0,76			▪	
18,00	1,50	0,62	▪	▪	▪	▪
18,00	2,00	0,80	▪	▪	▪	▪
18,00	2,50	0,97				▪
20,00	2,00	0,90	▪	▪	▪	▪
20,00	2,50	1,10	▪	▪	▪	▪
20,00	3,00	1,28	▪	▪	▪	▪
21,30	3,20	1,45				▪
22,00	1,50	0,77	▪	▪	▪	▪
22,00	2,00	1,00	▪	▪	▪	▪
25,00	2,00	1,15	▪	▪	▪	▪
25,00	2,50	1,41	▪	▪	▪	
25,00	3,00	1,65	▪	▪	▪	▪
25,00	4,00	2,10	▪	▪		▪
28,00	1,50	1,00	▪	▪	▪	
28,00	2,00	1,30	▪	▪	▪	▪
28,00	2,50	1,60				▪
28,00	3,00	1,88				▪
30,00	2,00	1,40	▪	▪		
30,00	2,50	1,72	▪	▪	▪	
30,00	3,00	2,03	▪	▪	▪	▪

* finishes see page 109

outside-Ø	wall thickness	stainless				
		grade	1.4301	1.4307	1.4541	1.4571
		AISI	304	304L	321	316Ti
		kg/m	*)	*)	*)	*)
mm	mm					
30,00	4,00	2,60	▪	▪	▪	▪
30,00	5,00	3,13				▪
35,00	2,00	1,65	▪	▪	▪	▪
35,00	3,00	2,40				▪
38,00	2,00	1,80	▪	▪	▪	▪
38,00	4,00	3,41			▪	▪
38,00	5,00	4,13	▪	▪	▪	▪
42,00	2,00	2,00	▪	▪		▪
42,00	3,00	2,93	▪	▪	▪	▪
42,40	2,60	2,59				▪
48,30	2,60	2,98				▪
50,00	5,00	5,63				▪
50,00	6,00	6,61				▪
57,00	2,00	2,75				▪
57,00	2,90	3,93			▪	
60,30	4,00	5,64				▪
88,90	4,50	9,51				▪

* finishes see page 109



outside- Ø mm	wall thick- ness mm	ASME size	stainless					
			grade	1.4301	1.4307	1.4404	1.4541	1.4571
			AISI	304	304L	316L	321	316Ti
			kg/m	*)	*)	*)	*)	*)
5,00	0,75		0,08	▪	▪			
8,00	1,00		0,18	▪	▪			
8,00	1,50		0,24	▪	▪			
10,00	1,00		0,23	▪	▪			▪
10,00	1,50		0,32	▪	▪			
12,00	1,00		0,28	▪	▪			▪
14,00	1,00		0,33					▪
14,00	1,50		0,47	▪	▪			▪
15,00	1,50		0,51	▪	▪			▪
16,00	1,50		0,54	▪	▪			▪
17,20	1,60		0,62	▪	▪	▪		
17,20	2,00		0,76	▪	▪	▪		
17,20	2,30		0,86	▪	▪	▪		▪
18,00	1,50		0,62	▪	▪			▪
20,00	1,00		0,48	▪	▪			▪
20,00	1,50		0,69	▪	▪	▪		▪
20,00	2,00		0,90	▪	▪			▪
21,30	1,60		0,79	▪	▪	▪		▪
21,30	2,00		0,97	▪	▪	▪	▪	▪
21,30	2,60		1,22	▪	▪	▪	▪	▪
21,34	2,11	1/2" SCH 10S	1,02	▪	▪			
22,00	1,00		0,53	▪	▪			
22,00	1,50		0,77	▪	▪	▪		
22,00	2,00		1,00	▪	▪			
23,00	1,50		0,81	▪	▪	▪		▪
25,00	1,50		0,88	▪	▪	▪		
25,00	2,00		1,15	▪	▪	▪		
26,90	1,60		1,01	▪	▪	▪		▪
26,90	2,00		1,25	▪	▪	▪	▪	▪
26,90	2,60		1,58	▪	▪	▪	▪	▪
28,00	1,50		1,00	▪	▪	▪		▪
28,00	2,00		1,30	▪	▪	▪		
30,00	1,50		1,07	▪	▪	▪		
30,00	2,00		1,40	▪	▪	▪		▪
30,00	2,60		1,78			▪		
30,00	3,00		2,03					▪
32,00	1,50		1,15	▪	▪	▪		
32,00	2,00		1,50	▪	▪	▪		

* finishes see page 109

outside- Ø mm	wall thick- ness mm	ASME size	stainless					
			grade	1.4301	1.4307	1.4404	1.4541	1.4571
			AISI	304	304L	316L	321	316Ti
			kg/m	*)	*)	*)	*)	*)
33,00	1,50		1,18	▪	▪	▪		
33,70	1,60		1,29	▪	▪	▪		▪
33,70	2,00		1,59	▪	▪	▪	▪	▪
33,70	2,60		2,02	▪	▪	▪	▪	▪
33,70	3,20		2,44	▪	▪	▪		▪
34,00	1,50		1,22	▪	▪	▪		
35,00	1,50		1,26			▪		
35,00	2,00		1,65	▪	▪	▪		▪
38,10	1,50		1,37			▪		
38,10	2,00		1,81	▪	▪	▪		
40,00	1,50		1,45	▪	▪	▪		
40,00	2,00		1,90	▪	▪	▪		▪
42,40	1,60		1,63	▪	▪	▪		▪
42,40	2,00		2,02	▪	▪	▪	▪	▪
42,40	2,60		2,59	▪	▪		▪	▪
42,40	3,00		2,96	▪	▪			
42,40	3,20		3,14	▪	▪	▪		▪
42,40	4,00		3,85	▪	▪			
43,00	1,50		1,56	▪	▪	▪		▪
44,00	1,50		1,60			▪		
44,50	2,00		2,13	▪	▪	▪		
44,50	2,60		2,73	▪	▪			
48,30	1,60		1,87	▪	▪	▪		▪
48,30	2,00		2,32	▪	▪	▪	▪	▪
48,30	2,60		2,98	▪	▪	▪	▪	▪
48,30	3,20		3,61	▪	▪	▪	▪	▪
48,30	3,60		4,03	▪	▪			
48,30	4,00		4,44	▪	▪			
50,00	1,50		1,82	▪	▪	▪		
50,00	2,00		2,40	▪	▪	▪		
50,80	1,50		1,85			▪		
50,80	2,00		2,44	▪	▪	▪		
52,00	1,50		1,90	▪	▪	▪		
52,00	2,00		2,50	▪	▪	▪		
53,00	1,50		1,93	▪	▪	▪		
54,00	2,00		2,60	▪	▪	▪		▪
57,00	2,00		2,75	▪	▪			
57,00	3,00		4,06			▪		

* finishes see page 109

outside- Ø mm	wall thick- ness mm	ASME size	stainless					
			grade	1.4301	1.4307	1.4404	1.4541	1.4571
			AISI	304	304L	316L	321	316Ti
			kg/m	*)	*)	*)	*)	*)
60,30	1,60		2,35			▪		▪
60,30	2,00		2,92	▪	▪	▪	▪	▪
60,30	2,60		3,76	▪	▪	▪	▪	▪
60,30	3,00		4,30	▪	▪	▪	▪	▪
60,30	3,20		4,58	▪	▪			▪
60,30	3,60		5,11	▪	▪	▪		▪
60,30	4,00		5,64					▪
63,50	1,50		2,33	▪	▪			
63,50	2,00		3,08	▪	▪			
70,00	1,50		2,57	▪	▪			
70,00	2,00		3,41	▪	▪			▪
70,00	2,90		4,87					
70,00	3,00		5,03					▪
73,00	1,50		2,69	▪	▪	▪		
76,10	1,60		2,98	▪	▪	▪		
76,10	2,00		3,71	▪	▪	▪	▪	▪
76,10	2,30		4,25			▪		▪
76,10	2,60		4,79	▪	▪	▪	▪	▪
76,10	3,00		5,49	▪	▪	▪		▪
76,10	3,20		5,84	▪	▪			▪
76,10	3,60		6,54	▪	▪	▪		▪
76,10	4,00		7,22					▪
80,00	1,50		2,95	▪	▪			
80,00	2,00		3,91	▪	▪			
84,00	2,00		4,11	▪	▪	▪		▪
85,00	1,50		3,14	▪	▪			
85,00	2,00		4,16	▪	▪			
88,90	2,00		4,35	▪	▪	▪	▪	▪
88,90	2,30		4,99			▪		▪
88,90	2,60		5,62	▪	▪	▪	▪	▪
88,90	2,90		6,24					▪
88,90	3,00		6,45	▪	▪	▪	▪	▪
88,90	3,20		6,87	▪	▪			▪
88,90	4,00		8,50					▪
101,60	2,00		4,99	▪	▪	▪	▪	▪
101,60	3,00		7,41	▪	▪	▪		
104,00	2,00		5,11	▪	▪	▪		▪
108,00	2,00		5,31	▪	▪	▪		

* finishes see page 109

outside- Ø mm	wall thick- ness mm	ASME size	stainless					
			grade	1.4301	1.4307	1.4404	1.4541	1.4571
			AISI	304	304L	316L	321	316Ti
			kg/m	*)	*)	*)	*)	*)
108,00	3,00		7,89	▪	▪	▪		
108,00	4,00		10,42			▪		
114,30	1,50		4,24			▪		
114,30	2,00		5,62	▪	▪	▪	▪	▪
114,30	2,60		7,27	▪	▪	▪	▪	▪
114,30	3,00		8,36	▪	▪	▪	▪	▪
114,30	3,20		8,90	▪	▪			
114,30	3,60		9,98	▪	▪	▪	▪	▪
114,30	4,00		11,05					▪
129,00	2,00		6,36	▪	▪			▪
133,00	2,00		6,56	▪	▪			
133,00	3,00		9,77	▪	▪			▪
133,00	4,00		12,92	▪	▪			
139,70	2,00		6,90	▪	▪		▪	▪
139,70	2,60		8,93	▪	▪	▪	▪	▪
139,70	3,00		10,27	▪	▪		▪	▪
139,70	4,00		13,59				▪	▪
154,00	2,00		7,61	▪	▪			▪
159,00	2,00		7,86	▪	▪			▪
159,00	3,00		11,72	▪	▪		▪	▪
159,00	4,00		15,52			▪		
168,30	2,00		8,33	▪	▪	▪	▪	▪
168,30	2,60		10,79	▪	▪	▪	▪	▪
168,30	3,00		12,42	▪	▪		▪	▪
168,30	4,00		16,46				▪	▪
168,30	5,00		20,45				▪	▪
204,00	2,00		10,12	▪	▪			▪
205,00	2,50		12,68					▪
206,00	3,00		15,25	▪	▪			▪
219,10	2,00		10,87	▪	▪	▪	▪	▪
219,10	2,60		14,10				▪	▪
219,10	3,00		16,23	▪	▪	▪	▪	▪
219,10	4,00		21,54	▪	▪	▪	▪	▪
219,10	5,00		26,81				▪	▪
219,10	6,30		33,57				▪	▪
254,00	2,00		12,62	▪	▪	▪		▪
255,00	2,50		15,81					▪
256,00	3,00		19,01	▪	▪	▪		

* finishes see page 109

outside- Ø mm	wall thick- ness mm	ASME size	stainless					
			grade	1.4301	1.4307	1.4404	1.4541	1.4571
			AISI	304	304L	316L	321	316Ti
			kg/m	*)	*)	*)	*)	*)
273,00	3,00		20,28	▪	▪		▪	▪
273,00	4,00		26,94				▪	▪
273,00	5,00		33,55				▪	▪
273,00	6,00		40,11					▪
273,00	6,30		42,07				▪	▪
304,00	2,00		15,12	▪	▪			▪
306,00	3,00		22,76			▪		▪
323,90	3,00		24,11	▪	▪		▪	▪
323,90	4,00		32,04				▪	▪
323,90	5,00		39,93					▪
323,90	6,30		50,10				▪	▪
355,60	3,00		26,49	▪	▪			▪
355,60	4,00		35,22					▪
406,40	3,00		30,30	▪	▪	▪		▪
406,40	4,00		40,30				▪	▪
406,40	5,00		50,26					▪
508,00	3,00		37,94					▪
508,00	4,00		50,48	▪	▪			▪
508,00	5,00		62,98					▪
609,60	4,00		60,66					▪

outside-Ø mm	wall thickness mm	ASME size	highly corrosion resistant	
			grade	1.4539
			AISI	904L
			kg/m	
76,10	3,00		5,49	▪
168,30	3,00		12,42	▪
273,00	4,00		26,94	▪
323,90	4,00		32,04	▪
355,60	4,00		35,22	▪

* finishes see page 109

outside-Ø	wall thickness	stainless			
		grade	1.4301	1.4307	1.4404
		AISI	304	304L	316L
mm	mm	kg/m	*)	*)	*)
18,00	1,50	0,62	▪	▪	▪
22,00	1,50	0,77	▪	▪	▪
28,00	1,00	0,68	▪	▪	
28,00	1,50	1,00	▪	▪	▪
34,00	1,00	0,83	▪	▪	
34,00	1,50	1,22	▪	▪	▪
40,00	1,00	0,98	▪	▪	▪
40,00	1,50	1,45	▪	▪	▪
52,00	1,00	1,28	▪	▪	
52,00	1,50	1,90	▪	▪	▪
70,00	2,00	3,41	▪	▪	▪
85,00	2,00	4,16	▪	▪	▪
104,00	2,00	5,11	▪	▪	▪
129,00	2,00	6,36	▪	▪	▪
154,00	2,00	7,61	▪	▪	▪

* finishes see page 109



Corrosion pipes and tubes | round | welded | heat-treated

outside- Ø mm	wall thick- ness mm	ASME size	stainless					
			grade	1.4301	1.4307	1.4404	1.4541	1.4571
			AISI	304	304L	316L	321	316Ti
			kg/m	*)	*)	*)	*)	*)
6,00	1,00		0,13	▪	▪		▪	▪
8,00	1,00		0,18	▪	▪		▪	▪
10,00	1,00		0,23	▪	▪		▪	▪
10,00	1,50		0,32	▪	▪			
12,00	1,00		0,28	▪	▪		▪	▪
12,00	1,50		0,39	▪	▪		▪	▪
14,00	1,00		0,33	▪	▪			▪
14,00	1,50		0,47	▪	▪		▪	▪
14,00	2,00		0,60					▪
15,00	1,00		0,35	▪	▪			▪
15,00	1,50		0,51	▪	▪		▪	▪
15,00	2,00		0,65					▪
16,00	1,00		0,38	▪	▪			▪
16,00	1,50		0,54				▪	▪
16,00	2,00		0,70	▪	▪			
17,20	1,60		0,62	▪	▪	▪		
17,20	2,00		0,76					▪
17,20	2,30		0,86					▪
18,00	1,00		0,43	▪	▪		▪	▪
18,00	1,50		0,62				▪	▪
18,00	2,00		0,80	▪	▪			▪
20,00	1,00		0,48	▪	▪			▪
20,00	1,50		0,69	▪	▪			▪
20,00	2,00		0,90	▪	▪		▪	▪
21,30	1,60		0,79			▪		▪
21,30	2,00		0,97	▪	▪	▪	▪	▪
21,30	2,11	1/2" SCH 10S	1,01	▪	▪			
21,30	2,60		1,22	▪	▪			▪
21,30	2,77	1/2" SCH 40S	1,29	▪	▪			
22,00	1,00		0,53	▪	▪			
25,00	1,00		0,60	▪	▪			▪
25,00	1,50		0,88					▪
25,00	2,00		1,15	▪	▪	▪	▪	▪
26,70	2,11	3/4" SCH 10S	1,30	▪	▪			
26,70	2,87	3/4" SCH 40S	1,71	▪	▪			
26,90	1,60		1,01					▪
26,90	2,00		1,25	▪	▪	▪	▪	▪
26,90	2,60		1,58	▪	▪		▪	▪
28,00	1,50		1,00	▪	▪			
28,00	2,00		1,30	▪	▪			▪

* finishes see page 109

outside- Ø mm	wall thick- ness mm	ASME size	stainless					
			grade	1.4301	1.4307	1.4404	1.4541	1.4571
			AISI	304	304L	316L	321	316Ti
			kg/m	*)	*)	*)	*)	*)
30,00	2,00		1,40	▪	▪			
33,40	2,77	1" SCH 10S	2,12	▪	▪			
33,40	3,38	1" SCH 40S	2,54	▪	▪			
33,70	2,00		1,59	▪	▪	▪	▪	▪
33,70	2,60		2,02	▪	▪		▪	▪
33,70	3,20		2,44	▪	▪		▪	▪
35,00	1,50		1,26	▪	▪			▪
38,00	1,50		1,37	▪	▪		▪	
38,00	2,00		1,80	▪	▪			
40,00	1,50		1,45	▪	▪			▪
40,00	2,00		1,90	▪	▪			▪
42,20	2,77	1 1/4" SCH 10S	2,73	▪	▪			
42,20	3,56	1 1/4" SCH 40S	3,44	▪	▪			
42,40	1,60		1,63					▪
42,40	2,00		2,02	▪	▪	▪	▪	▪
42,40	2,60		2,59	▪	▪		▪	▪
42,40	3,20		3,14	▪	▪		▪	▪
44,50	2,00		2,13	▪	▪			▪
48,30	2,00		2,32	▪	▪	▪	▪	▪
48,30	2,60		2,98	▪	▪	▪	▪	▪
48,30	2,77	1 1/2" SCH 10S	3,16	▪	▪			
48,30	3,20		3,61	▪	▪		▪	▪
48,30	3,60		4,03				▪	▪
50,00	2,00		2,40	▪	▪			▪
52,00	1,50		1,90					▪
53,00	1,50		1,93	▪	▪			
54,00	2,00		2,60	▪	▪		▪	▪
60,30	2,00		2,92	▪	▪	▪	▪	▪
60,30	2,60		3,76	▪	▪		▪	▪
60,30	2,77	2" SCH 10S	3,99	▪	▪			
60,30	3,00		4,30	▪	▪		▪	▪
60,30	3,60		5,11				▪	▪
60,30	3,91	2" SCH 40S	5,52	▪	▪			
76,10	1,60		2,98					▪
76,10	2,00		3,71	▪	▪		▪	▪
76,10	2,30		4,25			▪	▪	▪
76,10	2,60		4,79	▪	▪		▪	
76,10	3,00		5,49				▪	▪
76,10	3,60		6,54				▪	

* finishes see page 109

Corrosion pipes and tubes | round | welded | heat-treated

outside- Ø mm	wall thick- ness mm	ASME size	stainless					
			grade	1.4301	1.4307	1.4404	1.4541	1.4571
			AISI	304	304L	316L	321	316Ti
			kg/m	*)	*)	*)	*)	*)
88,90	2,00		4,35	▪	▪		▪	▪
88,90	2,30		4,99			▪	▪	▪
88,90	2,60		5,62	▪	▪	▪	▪	
88,90	3,00		6,45			▪	▪	▪
88,90	3,05	3" SCH 10S	6,56	▪	▪			
88,90	3,20		6,87	▪	▪		▪	▪
88,90	4,00		8,50				▪	▪
88,90	5,49	3" SCH 40S	11,47	▪	▪			
101,60	2,00		4,99	▪	▪			
108,00	3,00		7,89					▪
114,30	2,00		5,62	▪	▪		▪	▪
114,30	2,60		7,27	▪	▪	▪	▪	▪
114,30	3,00		8,36			▪	▪	▪
114,30	3,05	4" SCH 10S	8,50	▪	▪			
114,30	3,60		9,98			▪		▪
114,30	4,00		11,05				▪	▪
114,30	5,00		13,68				▪	▪
114,30	6,02	4" SCH 40S	16,32	▪	▪			
114,30	6,30		17,04					▪
168,30	3,40	6" SCH 10S	14,04	▪	▪			
168,30	7,11	6" SCH 40S	28,70	▪	▪			
219,10	3,76	8" SCH 10S	20,27	▪	▪			
219,10	8,18	8" SCH 40S	43,20	▪	▪			
323,90	4,57	12" SCH 10S	36,54			▪		

* finishes see page 109





HOLLOW BARS

seamless | round

136 - 141

Alternative with perspective

If it mustn't be solid, hollow bars are a favourable and durable alternative. That's one reason why we have developed our hollow bars programme – you will save material and reduce your costs however the quality of the product remains high.

Hollow bars | seamless | round

in random lengths of 2 to 7 m

Hot or cold-formed, heat-treated, free of scale (pickled or machined)

* solution annealed, pickled

Technical terms of delivery

EN 10216-5, additional inspection on request

Tolerances

ISO 2938 or

Outside diameter: $-0/+2\%$, at least $-0/+1.0$ mm

Inside diameter: $+0/-2\%$, at least $+0/-1.0$ mm

Wall thickness: minimum wall thickness 5% under nominal wall thickness, no maximum

Test certificates

EN 10204 3.1/3.2 according to agreement

* Classification see page 136 - 141

nominal-Ø mm		stainless							
		grade	1.4301	1.4306	1.4307	1.4401	1.4404	1.4541	1.4571
outside	inside	AISI	304	304L	304L	316	316L	321	316Ti
		kg/m	*)	*)	*)	*)	*)	*)	*)
32	16	4,81	▪	▪	▪	▪	▪		▪
32	20	3,91	▪	▪	▪	▪	▪	▪	▪
36	16	6,51	▪	▪	▪	▪	▪		▪
36	20	5,61	▪	▪	▪	▪	▪	▪	▪
36	25	4,20	▪	▪	▪	▪	▪	▪	▪
40	20	7,51	▪	▪	▪	▪	▪	▪	▪
40	25	6,10	▪	▪	▪	▪	▪	▪	▪
40	28	5,11	▪	▪	▪	▪	▪	▪	▪
45	20	10,17	▪	▪	▪	▪	▪	▪	▪
45	25	8,76	▪	▪	▪				
45	28	7,77	▪	▪	▪	▪	▪	▪	▪
45	32	6,27	▪	▪	▪	▪	▪	▪	▪
50	25	11,74	▪	▪	▪	▪	▪		▪
50	28	10,74	▪	▪	▪				
50	32	9,24	▪	▪	▪	▪	▪	▪	▪
50	36	7,54	▪	▪	▪	▪	▪	▪	▪
50	40	5,63	▪	▪	▪				▪
56	20	17,13	▪	▪	▪				
56	25	15,72	▪	▪	▪				
56	28	14,72	▪	▪	▪	▪	▪	▪	▪
56	30	14,00	▪	▪	▪				
56	36	11,52	▪	▪	▪	▪	▪	▪	▪
56	40	9,62	▪	▪	▪	▪	▪	▪	▪
56	45	6,95	▪	▪	▪				▪
60	40	12,52	▪	▪	▪	▪	▪	▪	▪
60	45	9,86	▪	▪	▪				▪
63	32	18,44	▪	▪	▪	▪	▪	▪	▪
63	36	16,73	▪	▪	▪	▪	▪		▪
63	40	14,83	▪	▪	▪	▪	▪	▪	▪
63	45	12,17	▪	▪	▪	▪	▪		▪
63	50	9,20	▪	▪	▪	▪	▪	▪	▪
70	50	15,02	▪	▪	▪				▪
71	36	23,44	▪	▪	▪	▪	▪	▪	▪
71	40	21,54	▪	▪	▪	▪	▪		▪
71	45	18,88	▪	▪	▪	▪	▪	▪	▪
71	56	11,93	▪	▪	▪	▪	▪	▪	▪
75	40	25,20	▪	▪	▪	▪	▪		▪
75	50	19,56	▪	▪	▪	▪	▪		
75	56	15,58	▪	▪	▪				▪
75	60	12,68	▪	▪	▪	▪	▪		▪

* finishes see page 135

nominal-Ø mm		stainless							
		grade	1.4301	1.4306	1.4307	1.4401	1.4404	1.4541	1.4571
outside	inside	AISI	304	304L	304L	316	316L	321	316Ti
		kg/m	*)	*)	*)	*)	*)	*)	*)
80	40	30,05	▪	▪	▪	▪	▪	▪	▪
80	45	27,39	▪	▪	▪	▪	▪		▪
80	50	24,41	▪	▪	▪	▪	▪	▪	▪
80	63	15,22	▪	▪	▪	▪	▪	▪	▪
85	45	32,55	▪	▪	▪	▪	▪	▪	▪
90	50	35,06	▪	▪	▪	▪	▪	▪	▪
90	56	31,07	▪	▪	▪	▪	▪	▪	▪
90	63	25,86	▪	▪	▪	▪	▪	▪	▪
90	68	21,76				▪	▪		▪
90	71	19,15	▪	▪	▪	▪	▪	▪	▪
95	50	40,85	▪	▪	▪	▪	▪		▪
100	56	42,97	▪	▪	▪	▪	▪	▪	▪
100	63	37,75	▪	▪	▪	▪	▪	▪	▪
100	71	31,04	▪	▪	▪	▪	▪	▪	▪
100	80	22,54	▪	▪	▪	▪	▪	▪	▪
106	56	50,71	▪	▪	▪	▪	▪	▪	▪
106	63	45,49	▪	▪	▪	▪	▪		▪
106	71	38,78	▪	▪	▪	▪	▪	▪	▪
106	80	30,27	▪	▪	▪	▪	▪	▪	▪
106	85	25,11							▪
106	90	19,63	▪	▪	▪				
112	63	53,68	▪	▪	▪	▪	▪		▪
112	71	46,97	▪	▪	▪	▪	▪	▪	▪
112	80	38,46	▪	▪	▪	▪	▪	▪	▪
112	90	27,82	▪	▪	▪	▪	▪	▪	▪
112	95	22,03							▪
118	63	62,32	▪	▪	▪	▪	▪	▪	▪
118	71	55,61	▪	▪	▪	▪	▪		▪
118	80	47,10	▪	▪	▪	▪	▪		▪
118	90	36,46	▪	▪	▪	▪	▪	▪	▪
125	71	66,26	▪	▪	▪	▪	▪	▪	▪
125	80	57,75	▪	▪	▪	▪	▪		▪
125	90	47,11	▪	▪	▪	▪	▪	▪	▪
125	100	35,21	▪	▪	▪	▪	▪	▪	▪
132	71	77,52	▪	▪	▪	▪	▪	▪	▪
132	80	69,01	▪	▪	▪	▪	▪	▪	▪
132	90	58,37	▪	▪	▪	▪	▪	▪	▪
132	106	38,74	▪	▪	▪	▪	▪	▪	▪
140	80	82,63	▪	▪	▪	▪	▪	▪	▪
140	90	71,99	▪	▪	▪	▪	▪		▪

* finishes see page 135

nominal-Ø mm		stainless							
		grade	1.4301	1.4306	1.4307	1.4401	1.4404	1.4541	1.4571
outside	inside	AISI	304	304L	304L	316	316L	321	316Ti
		kg/m	*)	*)	*)	*)	*)	*)	*)
140	100	60,10	▪	▪	▪	▪	▪	▪	▪
140	106	52,36	▪	▪	▪				
140	112	44,17	▪	▪	▪	▪	▪	▪	▪
150	80	100,79	▪	▪	▪	▪	▪	▪	▪
150	95	84,35	▪	▪	▪	▪	▪		▪
150	106	70,51	▪	▪	▪	▪	▪	▪	▪
150	112	62,32	▪	▪	▪	▪	▪		▪
150	125	43,04	▪	▪	▪	▪	▪	▪	▪
150	132	31,78	▪	▪	▪				▪
160	90	109,55	▪	▪	▪	▪	▪		▪
160	112	81,73	▪	▪	▪	▪	▪	▪	▪
160	120	70,11	▪	▪	▪	▪	▪	▪	▪
160	132	51,18	▪	▪	▪	▪	▪	▪	▪
170	100	118,31	▪	▪	▪				
170	106	110,58	▪	▪	▪	▪	▪	▪	▪
170	118	93,75	▪	▪	▪	▪	▪	▪	▪
170	130	75,12	▪	▪	▪	▪	▪	▪	▪
170	140	58,22	▪	▪	▪	▪	▪	▪	▪
175	145	60,10							▪
180	125	105,01	▪	▪	▪	▪	▪	▪	▪
180	130	97,03	▪	▪	▪	▪	▪		▪
180	140	80,13	▪	▪	▪	▪	▪		▪
180	150	61,97	▪	▪	▪	▪	▪	▪	▪
190	106	155,65	▪	▪	▪	▪	▪		▪
190	123	131,28	▪	▪	▪	▪	▪	▪	▪
190	132	116,91	▪	▪	▪	▪	▪		▪
190	140	103,29	▪	▪	▪	▪	▪	▪	▪
190	150	85,14	▪	▪	▪	▪	▪		▪
190	160	65,73	▪	▪	▪	▪	▪	▪	▪
200	140	127,70	▪	▪	▪	▪	▪	▪	▪
200	150	109,55	▪	▪	▪				▪
200	160	90,14	▪	▪	▪	▪	▪	▪	▪
200	170	69,49	▪	▪	▪	▪	▪		
212	130	175,56	▪	▪	▪	▪	▪	▪	▪
212	150	140,50	▪	▪	▪	▪	▪	▪	▪
212	170	100,44	▪	▪	▪	▪	▪		▪
212	180	78,53	▪	▪	▪				
224	140	191,41	▪	▪	▪	▪	▪	▪	▪
224	160	153,85	▪	▪	▪	▪	▪		▪
224	170	133,19	▪	▪	▪				▪

* finishes see page 135

nominal-Ø mm		stainless							
		grade	1.4301	1.4306	1.4307	1.4401	1.4404	1.4541	1.4571
outside	inside	AISI	304	304L	304L	316	316L	321	316Ti
		kg/m	*)	*)	*)	*)	*)	*)	*)
224	180	111,28	▪	▪	▪	▪	▪	▪	▪
236	150	207,81	▪	▪	▪	▪	▪	▪	▪
236	190	122,67	▪	▪	▪	▪	▪	▪	▪
240	170	179,66	▪	▪	▪	▪	▪		▪
250	200	140,85	▪	▪	▪	▪	▪	▪	▪
275	200	223,01				▪	▪		
300	200	313,00	▪		▪	▪	▪		
340	200	473,26	▪		▪	▪	▪		
380	230	572,79	▪		▪	▪	▪		
400	300	438,20	▪		▪	▪	▪		
420	300	540,86	▪		▪	▪	▪		

* finishes see page 135



nominal-Ø mm		Duplex		heat resistant
		grade	1.4462	1.4878
outside	inside	UNS/ AISI	S31803	321H
		kg/m	*)	*)
32	20	3,91		▪
36	20	5,61		▪
36	25	4,20		▪
40	20	7,51		▪
40	25	6,10		▪
40	28	5,11		▪
45	20	10,17		▪
45	28	7,77		▪
45	32	6,27		▪
50	25	11,74	▪	
50	32	9,24		▪
50	36	7,54		▪
56	28	14,72	▪	▪
56	36	11,52		▪
56	40	9,62		▪
60	40	12,52		▪
63	32	18,44	▪	▪
63	40	14,83		▪
63	50	9,20		▪
71	36	23,44	▪	▪
71	45	18,88	▪	▪
71	56	11,93	▪	▪
80	40	30,05	▪	▪
80	50	24,41	▪	▪
80	63	15,22		▪
85	45	32,55		▪
90	50	35,06		▪
90	56	31,07	▪	▪
90	63	25,86	▪	▪
90	71	19,15		▪
100	56	42,97	▪	▪
100	63	37,75		▪
100	71	31,04	▪	▪
100	80	22,54		▪
106	56	50,71		▪
106	71	38,78	▪	▪
106	80	30,27	▪	▪
112	71	46,97		▪
112	80	38,46		▪
112	90	27,82	▪	▪

* finishes see page 135

nominal-Ø mm		Duplex		heat resistant
		grade	1.4462	1.4878
outside	inside	UNS/ AISI	S31803	321H
		kg/m	*)	*)
118	63	62,32		▪
118	80	47,10	▪	
118	90	36,46		▪
125	71	66,26		▪
125	90	47,11	▪	▪
125	100	35,21	▪	▪
132	71	77,52		▪
132	80	69,01		▪
132	90	58,37	▪	▪
132	106	38,74		▪
140	80	82,63		▪
140	100	60,10	▪	▪
140	112	44,17	▪	▪
150	80	100,79		▪
150	106	70,51	▪	▪
150	125	43,04		▪
160	112	81,73	▪	▪
160	120	70,11		▪
160	132	51,18		▪
170	106	110,58		▪
170	118	93,75		▪
170	130	75,12	▪	▪
170	140	58,22	▪	▪
180	125	105,01	▪	▪
180	130	97,03		▪
180	140	80,13	▪	
190	123	131,28		▪
190	140	103,29		▪
190	160	65,73	▪	▪
200	140	127,70		▪
200	160	90,14	▪	▪
212	130	175,56	▪	▪
212	150	140,50		▪
224	140	191,41		▪
212	170	100,44	▪	
224	180	111,28		▪
236	150	207,81		▪
236	190	122,67	▪	▪
250	200	140,85	▪	▪

* finishes see page 135



FLANGES

144 - 161



Always well connected

Thanks to flanges and collars, tube connections become perfect – and so is our offer for you. This is the reason why we always have the complete range of fittings available. You have special wishes beyond? Then just call us – and your wishes will be fulfilled.

Fittings | flanges

* solution annealed, metal bright, all sides turned

Technical terms of delivery

DIN EN 10222-5, VdTÜV-sheet 418 or 421 also in connection with AD-2000-leaflet W 2/W 9/W 10

Tolerances

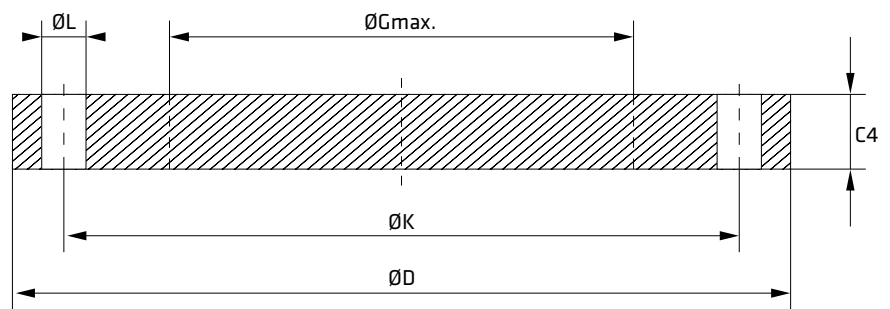
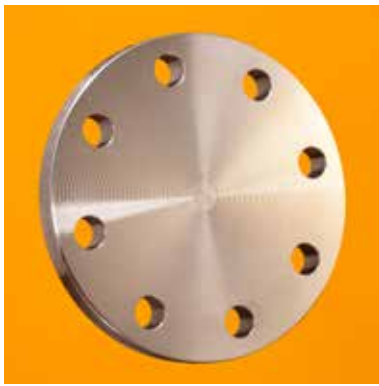
DIN EN 1092-1 and DIN 2527, 2566, 2576, 2632, 2633, 2635, 2642

Test certificates

DIN EN 10204 3.1 for welding collars only for base material (sheet or strip),

DIN EN 10204 3.1 for the base material and the final product

* Classification see page 144 - 161



nominal pressure/ diameter		C4	ØD	ØK	ØL	ØG max.	number of drill holes	stainless		
								grade	1.4541	1.4571
DN	PN	mm	mm	mm	mm	mm		AISI	321	316Ti
								kg/pce	*)	*)
15	40	16	95	65	14		4	0,81	▪	▪
20	40	18	105	75	14		4	1,14	▪	▪
25	40	18	115	85	14		4	1,38	▪	▪
32	40	18	140	100	18		4	2,03	▪	▪
40	40	18	150	110	18		4	2,35	▪	▪
50	16	18	165	125	18		4	2,88	▪	▪
65	16	18	185	145	18	55	4	3,51	▪	▪
65	16	18	185	145	18	55	8	3,51	▪	▪
80	16	20	200	160	18	70	8	4,61	▪	▪
100	16	20	220	180	18	90	8	5,65	▪	▪
125	16	22	250	210	18	115	8	8,13	▪	▪
150	16	22	285	240	22	140	8	10,50	▪	▪
200	10	24	340	295	22	190	8	16,50	▪	▪
200	16	24	340	295	22	190	12	16,20	▪	▪
250	10	26	395	350	22	235	12	24,10	▪	▪
300	10	26	445	400	22	285	12	30,80	▪	▪
350	10	26	505	460	22	330	16	39,60		▪
400	10	26	565	515	26	380	16	49,40		▪
500	10	28	670	725	26	475	20	75,20		▪

1) also available according to DIN

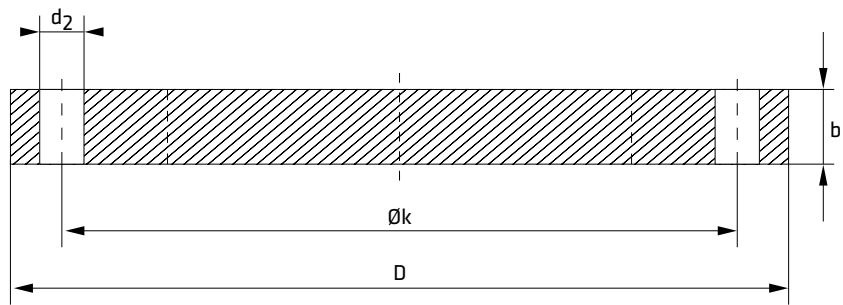
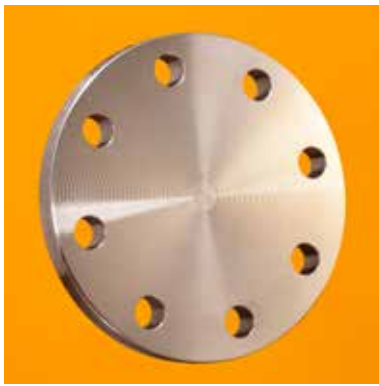
* finishes see page 143

nominal pressure/ diameter		C4	ØD	ØK	ØL	ØG max.	number of drill holes	Duplex		highly corrosion resistant
								grade	1.4462	1.4539
DN	PN	mm	mm	mm	mm	mm		AISI/ UNS	S31803	904L
								kg/pce	*)	*)
15	40	16	95	65	14		4	0,81	▪	▪
20	40	18	105	75	14		4	1,14	▪	▪
25	40	18	115	85	14		4	1,38	▪	▪
32	40	18	140	100	18		4	2,03	▪	▪
40	40	18	150	110	18		4	2,35	▪	▪
50	16	18	165	125	18		4	2,88	▪	▪
65	16	18	185	145	18	55	8	3,51	▪	▪
80	16	20	200	160	18	70	8	4,61	▪	▪
100	16	20	220	180	18	90	8	5,65	▪	▪
125	16	22	250	210	18	115	8	8,13	▪	▪
150	16	22	285	240	22	140	8	10,50	▪	▪
200	16	24	340	295	22	190	12	16,20	▪	▪

1) also available according to DIN

* finishes see page 143

Blind flanges | DIN 2527 Form B | standard grades



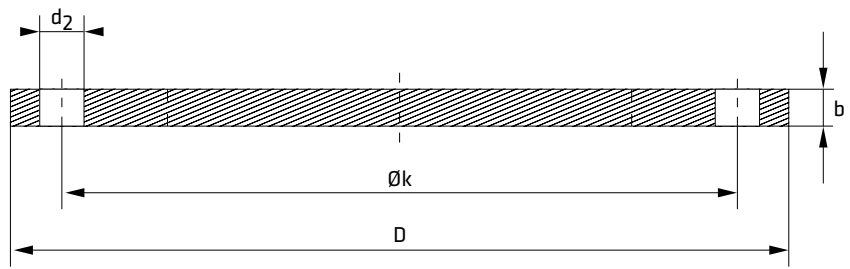
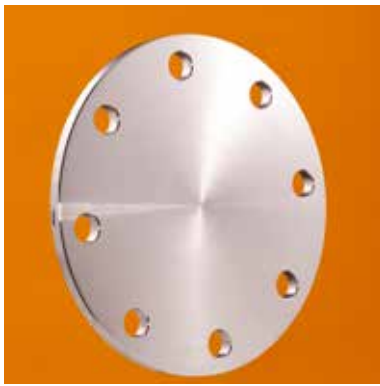
nominal pressure/ diameter		b	D	Øk	d2	number of drill holes	stainless	
							grade	1.4571
DN	PN	mm	mm	mm	mm		AISI	316Ti
							kg/pce	*)
10	16	14	90	60	14	4	0,63	▪
15	16	14	95	65	14	4	0,72	▪
20	16	16	105	75	14	4	1,01	▪
25	16	16	115	85	14	4	1,23	▪
32	16	16	140	100	18	4	1,80	▪
40	16	16	150	110	18	4	2,09	▪

Blind flanges | DIN 2527 Form B | special grades

nominal pressure/ diameter		b	D	Øk	d2	number of drill holes	Duplex		highly corrosion resistant
							grade	1.4462	1.4539
DN	PN	mm	mm	mm	mm		AISI/ UNS	S31803	904L
							kg/pce	*)	*)
15	16	14	95	65	14	4	0,72	▪	▪
20	16	16	105	75	14	4	1,01	▪	▪
25	16	16	115	85	14	4	1,23	▪	▪
32	16	16	140	100	18	4	1,80	▪	▪
40	16	16	150	110	18	4	2,09	▪	▪

* finishes see page 143

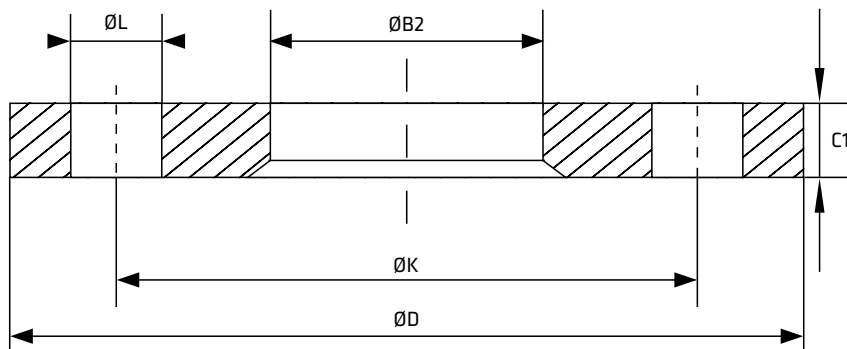
Blind flanges | with reduced thickness



nominal pressure/ diameter		b	D	Øk	d2	number of drill holes	stainless		
							grade	1.4301	1.4571
DN	PN	mm	mm	mm	mm		AISI	304	316Ti
							kg/pce	*)	*)
100	16	10	220	180	18	8	2,83	▪	▪
125	16	12	250	210	18	8	4,60	▪	▪
150	16	12	285	240	22	8	4,68	▪	▪
200	10	12	340	295	22	8	8,25		▪
200	10	15	340	295	22	8	10,31	▪	
250	10	15	405	355	26	12	14,40	▪	▪
300	10	15	460	470	26	12	18,80	▪	▪
350	10	15	505	460	22	16	24,17		▪
400	10	15	565	515	26	16	28,50		▪
500	10	20	670	620	26	20	53,57		▪

* finishes see page 143

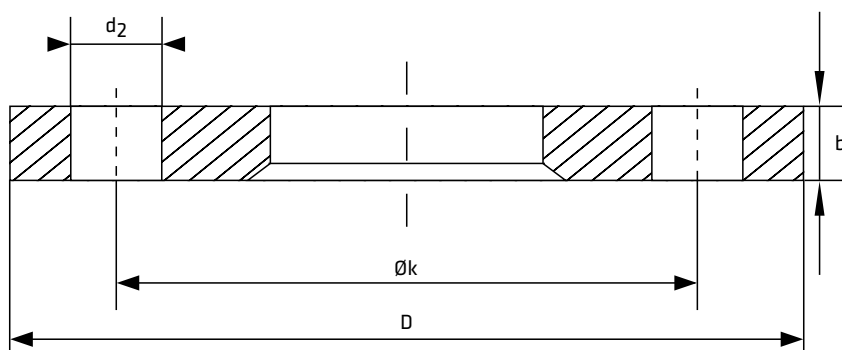
Lapped flanges | EN 1092-1 type 02¹⁾



nominal pressure/ diameter		pipe size	C1	ØD	ØK	ØL	ØB2	number of drill holes	stainless		
									grade	1.4541	1.4571
DN	PN	mm	mm	mm	mm	mm	mm		AISI	321	316Ti
										kg/pce	*)
10	40	17,2	14	90	60	14	21	4	0,59		▪
15	40	21,3	14	95	65	14	25	4	0,65	▪	▪
20	40	26,9	16	105	75	14	31	4	0,90	▪	▪
25	40	33,7	16	114	85	14	38	4	1,08	▪	▪
32	40	42,4	18	140	100	18	47	4	1,77	▪	▪
40	40	48,3	18	150	110	18	53	4	2,02	▪	▪
50	16	60,3	20	165	125	18	65	4	2,65	▪	▪
65	16	76,1	20	185	145	18	81	4	3,05	▪	▪
65	16	76,1	20	185	145	18	81	8	2,95	▪	▪
80	16	88,9	20	200	160	18	94	8	3,48	▪	▪
100	16	114,3	22	220	180	18	120	8	4,20	▪	▪
125	16	139,7	22	250	210	18	145	8	5,21	▪	▪
150	16	168,3	24	285	240	22	174	8	6,89	▪	▪
200	10	219,1	24	340	295	22	226	8	9,31	▪	▪
250	10	273,0	26	395	350	22	281	12	13,50	▪	▪
250	16	273,0	29	405	355	26	281	12	13,50		▪
300	10	323,9	26	445	400	22	333	12	18,00	▪	▪
350	10	355,6	30	505	460	22	365	16	19,40		▪
400	10	406,4	32	565	515	26	416	16	26,40	▪	▪
500	10	508,0	38	670	620	26	519	20	38,50	▪	▪
600	10	609,6	42	780	725	30	622	20	52,20		▪

1) also available according to DIN

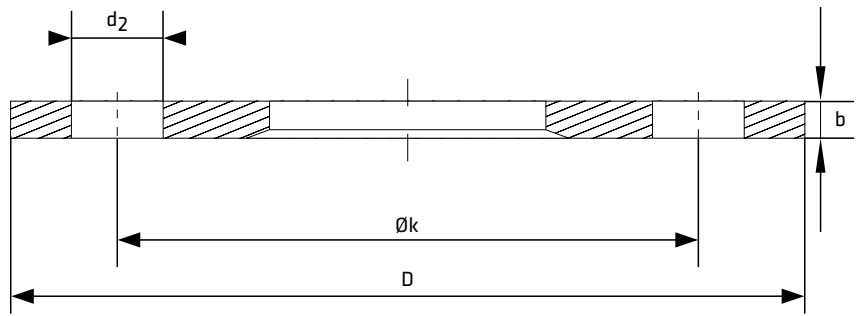
* finishes see page 143



nominal pressure/ diameter		pipe size	b	D	Øk	d2	number of drill holes	stainless		
								grade	1.4541	1.4571
DN	PN	mm	mm	mm	mm	mm		AISI	321	316Ti
								kg/pce	*)	*)
10	10	17,2	14	90	60	14	4	0,60	▪	▪
15	10	21,3	14	95	65	14	4	0,69	▪	▪
20	10	26,9	14	105	75	14	4	0,80	▪	▪
25	10	33,7	16	115	85	14	4	1,11	▪	▪
32	10	42,4	16	140	100	18	4	1,64	▪	▪
40	10	48,3	16	150	110	18	4	1,86	▪	▪
50	10	60,3	16	165	125	18	4	2,20	▪	▪
65	10	76,1	16	185	145	18	4	2,62	▪	▪
80	10	88,9	18	200	160	18	8	3,32	▪	▪
100	10	114,3	18	220	180	18	8	3,67	▪	▪
125	10	139,7	18	250	210	18	8	4,54	▪	▪
150	10	168,3	18	285	240	22	8	5,60	▪	▪
200	10	219,1	20	340	295	22	8	7,46	▪	▪
250	10	273,0	22	395	350	22	12	10,30	▪	▪

* finishes see page 143

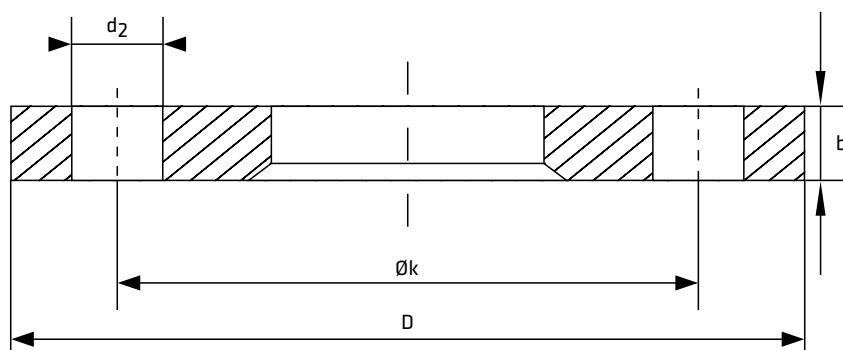
Lapped flanges | with reduced thickness



nominal pressure/ diameter		pipe size	b	D	Øk	d2	number of drill holes	stainless		
								grade	1.4301	1.4571
DN	PN	mm	mm	mm	mm	mm		AISI	304	316Ti
								kg/pce	*)	*)
50	10	60,3	10	165	125	18	4	1,42	▪	▪
65	10	76,1	10	185	145	18	4	1,74	▪	▪
80	10	88,9	10	200	160	18	8	1,95	▪	▪
100	10	114,3	10	220	180	18	8	2,15	▪	▪
125	10	139,7	12	250	210	18	8	3,05	▪	▪
150	10	168,3	12	285	240	22	8	3,94	▪	▪
200	10	219,1	12	340	295	22	8	4,48	▪	▪
250	10	273,0	15	395	350	22	12	6,95	▪	▪
300	10	323,9	15	445	400	22	12	9,19	▪	▪
350	10	355,6	15	505	460	22	16	11,24	▪	▪
400	10	406,4	15	565	515	26	16	11,70	▪	▪
500	10	508,0	15	670	620	26	20	14,61	▪	▪
500	10	508,0	20	670	620	26	20	19,47	▪	▪
600	10	609,6	20	780	725	30	20	25,60		▪

* finishes see page 143

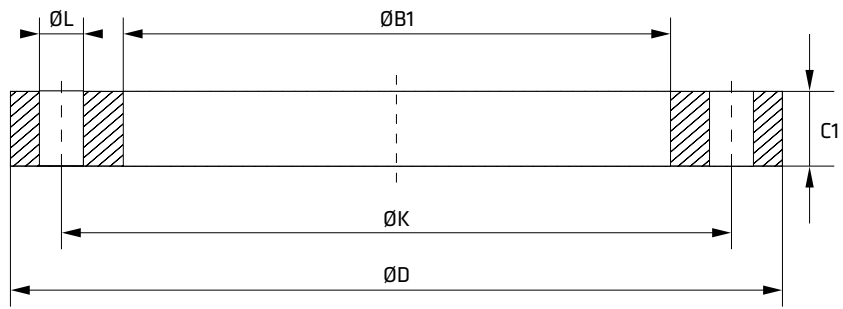
Lapped flanges aluminium



nominal pressure/ diameter		pipe size	b	D	Øk	d2	number of drill holes		aluminium bight metal	aluminium coated
DN	PN	mm	mm	mm	mm	mm		kg/pce	GK AL SU 12 CU	RAL 7001
10	10	17,2	12	90	60	14	4	0,21	▪	▪
15	10	21,3	12	95	65	14	4	0,24	▪	▪
20	10	26,9	12	105	75	14	4	0,28	▪	▪
25	10	33,7	12	115	85	14	4	0,38	▪	▪
32	10	42,4	16	140	100	18	4	0,56	▪	▪
40	10	48,3	16	150	110	18	4	0,64	▪	▪
50	10	54,0	16	165	125	18	4	0,75	▪	▪
50	10	60,3	16	165	125	18	4	0,75	▪	▪
65	10	76,1	16	185	145	18	4	0,90	▪	▪
80	10	84,0	18	200	160	18	8	1,10	▪	▪
80	10	88,9	18	200	160	18	8	1,10	▪	▪
100	10	104,0	18	220	180	18	8	1,23	▪	▪
100	10	114,3	18	220	180	18	8	1,23	▪	▪
125	10	129,0	18	250	210	18	8	1,55	▪	▪
125	10	139,7	18	250	210	18	8	1,55	▪	▪
150	10	154,0	18	285	240	22	8	1,88	▪	▪
150	10	168,3	18	285	240	22	8	1,88	▪	▪
200	10	204,0	20	340	295	22	8	2,70	▪	▪
200	10	219,1	20	340	295	22	8	2,70	▪	▪
250	10	254,0	22	395	350	22	12	3,65	▪	▪
250	10	273,0	22	395	350	22	12	3,65	▪	▪
300	10	304,0	22	445	400	22	12	4,30	▪	▪
300	10	323,9	22	445	400	22	12	4,30	▪	▪
350	10	355,6	22	505	460	22	16	5,20	▪	▪
400	10	406,4	25	565	515	26	16	7,17	▪	▪
500	10	508,0	28	670	620	26	20	9,70	▪	▪
600	10	610,0	30	780	725	30	20	14,00		▪

* finishes see page 143

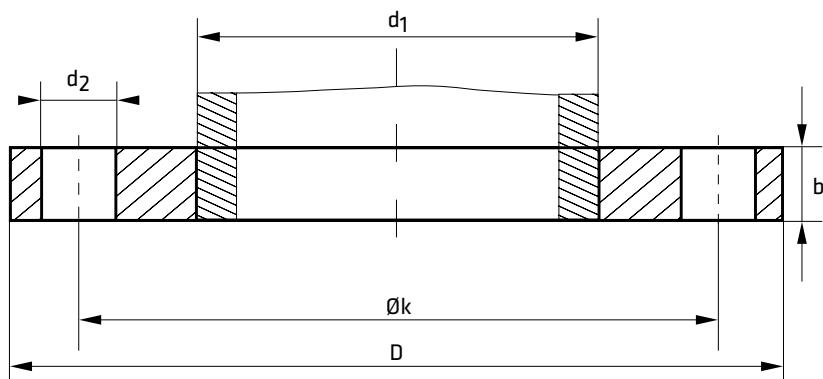
Flanges for welding | EN 1092-1 type 01¹⁾



nominal pressure/ diameter		pipe size	C1	ØD	ØK	ØL	ØB1	number of drill holes	stainless		
									grade	1.4541	1.4571
DN	PN	mm	mm	mm	mm	mm	mm		AISI	321	316Ti
									kg/pce	*)	*)
15	40	21,3	14	95	65	14	22,0	4	0,67		▪
20	40	26,9	16	105	75	14	27,5	4	0,94		▪
25	40	33,7	16	115	85	14	34,5	4	1,11		▪
32	40	42,4	18	140	100	18	43,5	4	1,82		▪
40	40	48,3	18	150	110	18	49,5	4	2,08		▪
50	16	60,3	20	165	125	18	61,5	4	2,73		▪
65	16	76,1	20	185	145	18	77,5	4	3,16		▪
65	16	76,1	20	185	145	18	77,5	8	3,16		▪
80	16	88,9	20	200	160	18	90,5	8	3,60	▪	▪
100	16	114,3	22	220	180	18	116,0	8	4,39		▪
125	16	139,7	22	250	210	18	141,5	8	5,41	▪	▪
150	16	168,3	24	285	240	22	170,5	8	7,14		▪
200	10	219,1	24	340	295	22	221,5	8	9,27		▪
250	10	273,0	26	395	350	22	276,5	12	11,80	▪	▪
250	16	273,0	29	405	355	26	276,5	12	14,20		▪
300	10	323,9	26	445	400	22	327,5	12	13,60	▪	▪
300	16	323,9	32	460	410	26	327,5	12	19,00		▪
350	10	355,6	30	505	460	22	359,5	16	20,40	▪	▪
400	10	406,4	32	565	515	26	411,0	16	27,50	▪	▪
500	10	508,0	38	670	620	26	513,5	20	40,20	▪	▪

1) also available according to DIN

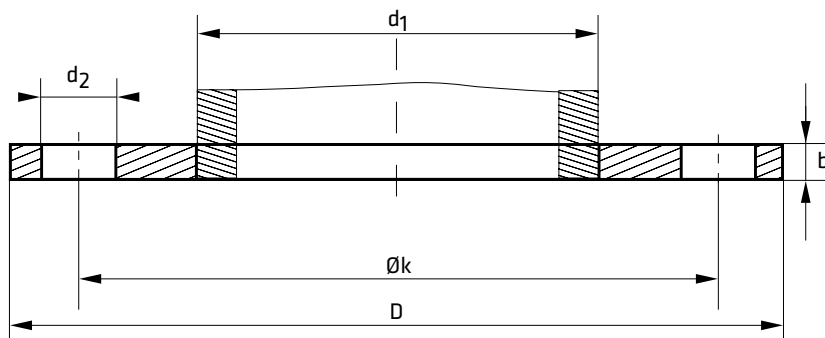
* finishes see page 143



nominal pressure/ diameter		pipe size d ₁	b	D	Øk	d ₂	number of drill holes	stainless		
								grade	1.4541	1.4571
DN	PN	mm	mm	mm	mm	mm		AISI	321	316Ti
								kg/pce	*)	*)
15	10	21,3	14	95	65	14	4	0,67	▪	▪
20	10	26,9	16	105	75	14	4	0,94	▪	▪
25	10	33,7	16	115	85	14	4	1,11	▪	▪
32	10	42,4	16	140	100	18	4	1,62	▪	▪
40	10	48,3	16	150	110	18	4	1,86	▪	▪
100	10	108,0	20	220	180	18	8	4,20	▪	▪
125	10	133,0	22	250	210	18	8	5,71	▪	▪
150	10	159,0	22	285	240	22	8	6,72	▪	▪
150	10	168,3	22	285	240	22	8	6,72	▪	▪
200	10	219,1	24	340	295	22	8	9,31	▪	▪

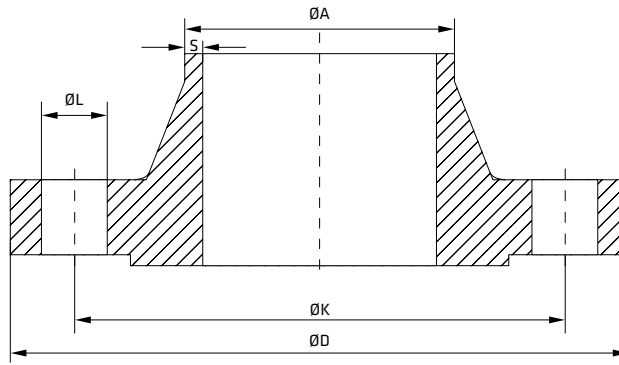
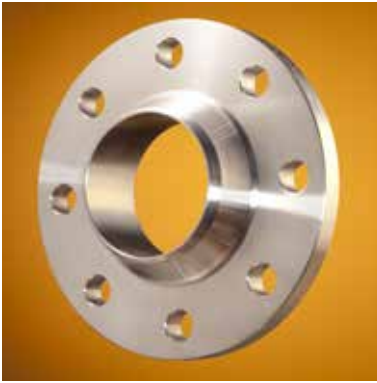
* finishes see page 143

Flanges for welding | with reduced thickness



nominal pressure/ diameter		pipe size d ₁	b	D	Øk	d ₂	number of drill holes	stainless		
								grade	1.4301	1.4571
								AISI	304	316Ti
								kg/pce	*)	*)
DN	PN	mm	mm	mm	mm	mm				
50	10	60,3	10	165	125	18	4	1,37	▪	▪
65	10	76,1	10	185	145	18	4	1,67	▪	▪
65	16	76,1	10	185	145	18	8	13,7		▪
80	10	88,9	10	200	160	18	8	1,89	▪	▪
100	10	114,3	10	220	180	18	8	2,02	▪	▪
100	10	114,3	12	220	180	18	8	2,42		▪
125	10	139,7	10	250	210	18	8	2,48		▪
125	10	139,7	12	250	210	18	8	2,98	▪	▪
150	10	168,3	10	285	240	22	8	2,98		▪
150	10	168,3	12	285	240	22	8	3,58	▪	▪
200	10	219,1	12	340	295	22	8	4,66	▪	▪
200	10	219,1	15	340	295	22	8	5,82		▪
200	16	219,1	15	340	295	22	12	5,79		▪
250	10	273,0	12	395	350	22	12	5,49		▪
250	10	273,0	15	395	350	22	12	6,86	▪	
250	16	273,0	15	395	355	26	12	6,81		▪
300	10	323,9	12	445	400	22	12	6,36		▪
300	10	323,9	15	445	400	22	12	7,96	▪	▪
300	16	323,9	15	445	410	26	12	7,85		▪
350	10	355,6	12	505	460	22	16	8,82		▪
350	10	355,6	15	505	460	22	16	11,04	▪	▪
350	16	355,6	15	505	470	26	16	10,20		▪
400	10	406,4	12	565	515	26	16	10,46		▪
400	10	406,4	15	565	515	26	16	13,08	▪	▪
400	16	406,4	15	565	525	30	16	12,89		▪
500	10	508,0	15	670	620	26	20	16,22	▪	▪
500	10	508,0	20	670	620	26	20	21,63	▪	▪
500	16	508,0	15	670	650	33	20	15,87		▪
600	16	609,6	20	780	770	36	20	20,00		▪

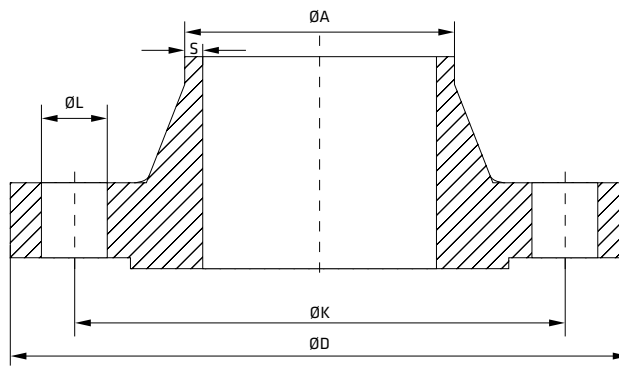
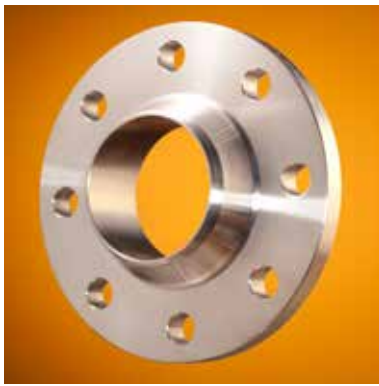
* finishes see page 143



nominal pressure/ diameter		pipe size ØA	S	ØD	ØK	ØL	number of drill holes	stainless	
								grade	1.4571
		mm	mm	mm	mm	mm		AISI	316Ti
DN	PN							kg/pce	*)
15	16	21,3	2,00	95	65	14	4	0,65	▪
15	40	21,3	2,00	95	65	14	4	0,65	▪
20	16	26,9	2,00	105	75	14	4	0,95	▪
20	40	26,9	2,00	105	75	14	4	0,95	▪
25	16	33,7	2,00	115	85	14	4	1,14	▪
25	40	33,7	2,00	115	85	14	4	1,14	▪
32	16	42,4	2,00	140	100	18	4	1,69	▪
32	40	42,4	2,00	140	100	18	4	1,69	▪
40	16	48,3	2,00	150	100	18	4	1,86	▪
40	40	48,3	2,00	150	110	18	4	1,86	▪
50	16	60,3	2,00	165	125	18	4	2,53	▪
65	16	76,1	2,30	185	145	18	4	3,06	▪
80	16	88,9	2,30	200	160	18	8	3,70	▪
100	16	114,3	2,60	220	180	18	8	4,62	▪
125	16	139,7	2,60	250	210	18	8	6,30	▪
150	16	168,3	2,60	285	240	22	8	7,81	▪

1) also available according to DIN

* finishes see page 143



nominal pressure/ diameter		pipe size ØA	S	ØD	ØK	ØL	number of drill holes	stainless			
								grade	1.4301	1.4541	1.4571
DN	PN	mm	mm	mm	mm	mm		AISI	304	321	316Ti
								kg/pce	*)	*)	*)
10	40	17,2	2,00	90	60	14	4	0,68			▪
15	40	21,3	2,00	95	65	14	4	0,77	▪	▪	▪
20	40	26,9	2,30	105	75	14	4	1,09	▪	▪	▪
25	40	33,7	2,60	115	85	14	4	1,30	▪	▪	▪
32	40	42,4	2,60	140	100	18	4	1,91	▪	▪	▪
40	40	48,3	2,60	150	110	18	4	2,15	▪	▪	▪
50	16	60,3	2,90	165	125	18	4	2,53	▪	▪	▪
50	40	60,3	2,90	165	125	18	4	2,85			▪
65	16	76,1	2,90	185	145	18	4	3,03	▪	▪	▪
65	16	76,1	2,90	185	145	18	8	3,03	▪	▪	▪
65	40	76,1	2,90	185	145	18	8	3,68			▪
80	16	88,9	3,20	200	160	18	8	3,92	▪	▪	▪
80	40	88,9	3,20	200	160	18	8	4,78			▪
100	16	114,3	3,60	220	180	18	8	4,62	▪	▪	▪
100	40	114,3	3,60	235	190	22	8	6,46			▪
125	16	139,7	4,00	250	210	18	8	6,30	▪	▪	▪
125	40	139,7	4,00	270	220	26	8	8,86			▪
150	16	168,3	4,50	285	240	22	8	7,81	▪	▪	▪
150	40	168,3	4,50	300	250	26	8	11,70			▪
200	10	219,1	6,30	340	295	22	8	11,50	▪	▪	▪
200	16	219,1	6,30	340	295	22	12	11,60		▪	▪
200	40	219,1	6,30	375	320	30	12	21,00			▪
250	10	273,0	6,30	395	350	22	12	15,80	▪	▪	▪
250	16	273,0	6,30	405	355	26	26	16,70			▪
300	10	323,9	7,10	445	400	22	12	18,30		▪	▪
300	16	323,9	7,10	460	410	26	26	22,10			▪
350	10	355,6	7,10	505	460	22	16	25,30		▪	▪
350	16	355,6	7,10	505	460	22	16	32,80			▪
400	10	406,4	7,10	565	515	26	16	30,60		▪	▪
400	16	406,4	7,10	565	515	26	16	41,10			▪

1) also available according to DIN

* finishes see page 143

Welding neck flanges | EN 1092-1 type 11 B1¹⁾ | standard grades

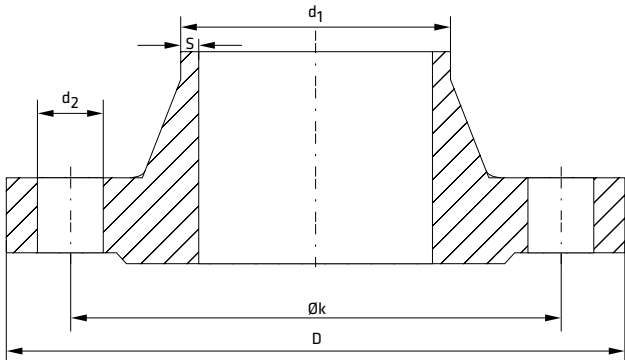
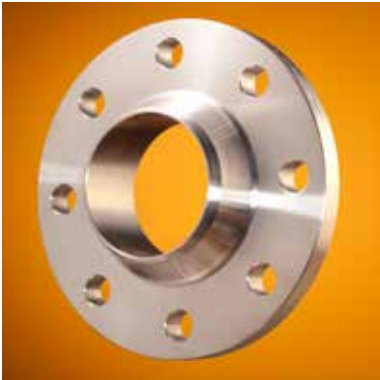
								stainless			
nominal pressure/ diameter		pipe size ØA	S	ØD	ØK	ØL	number of drill holes	grade	1.4301	1.4541	1.4571
DN	PN	mm	mm	mm	mm	mm		AISI	304	321	316Ti
								kg/pce	*)	*)	*)
500	10	508,0	7,10	670	620	26	20	40,50			▪
500	16	508,0	7,10	670	620	26	20	66,20			▪
600	10	609,6	7,10	780	725	30	20	44,60			▪

Welding neck flanges | EN 1092-1 type 11 B1¹⁾ | special grades

								Duplex		highly corrosion resistant
nominal pressure/ diameter		pipe size ØA	S	ØD	ØK	ØL	number of drill holes	grade	1.4462	1.4539
DN	PN	mm	mm	mm	mm	mm		AISI/ UNS	S31803	904L
								kg/pce	*)	*)
15	40	21,34	2,11	95	65	14	4	1,00	▪	▪
15	40	21,34	2,77	95	65	14	4	1,02	▪	▪
20	40	26,67	2,87	105	75	14	4	1,05	▪	▪
25	40	33,40	2,77	115	85	14	4	1,31	▪	▪
25	40	33,40	3,38	115	85	14	4	1,32	▪	▪
32	40	42,16	2,77	140	100	18	4	1,95	▪	▪
32	40	42,16	3,56	140	100	18	4	1,92	▪	▪
40	40	48,26	2,77	150	110	18	4	2,16	▪	▪
40	40	48,26	3,68	150	110	18	4	2,20	▪	▪
50	16	60,30	2,77	165	125	18	4	2,52	▪	▪
50	16	60,30	3,91	165	125	18	4	2,58	▪	▪
50	16	60,30	5,54	165	125	18	4	2,62	▪	▪
65	16	73,03	3,05	185	145	18	8	3,03	▪	▪
65	16	73,03	5,16	185	145	18	8	3,20	▪	▪
65	16	76,10	4,00	185	145	18	8	3,16	▪	▪
80	16	88,90	3,05	200	160	18	8	4,00	▪	▪
80	16	88,90	4,00	200	160	18	8	4,00	▪	▪
80	16	88,90	5,49	200	160	18	8	4,92	▪	▪
100	16	114,30	3,05	220	180	18	8	4,54	▪	▪
100	16	114,30	6,02	220	180	18	8	4,95	▪	▪
125	16	139,70	6,55	250	210	18	8	6,75	▪	▪
125	16	141,30	6,55	250	210	18	8	6,95	▪	▪
150	16	168,30	7,11	285	240	22	8	8,37	▪	▪
200	16	219,10	8,18	340	295	22	12	12,19	▪	▪

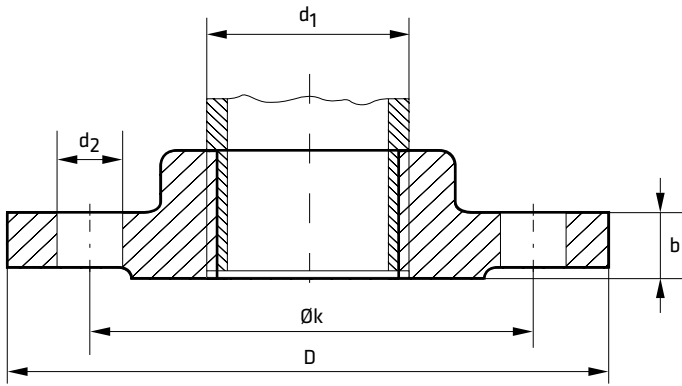
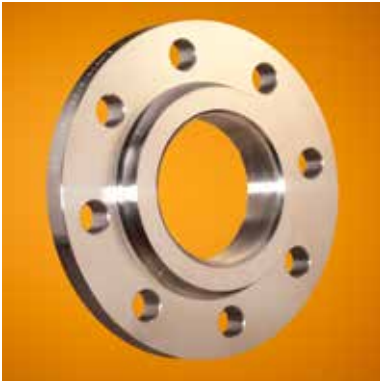
1) also available according to DIN

* finishes see page 143



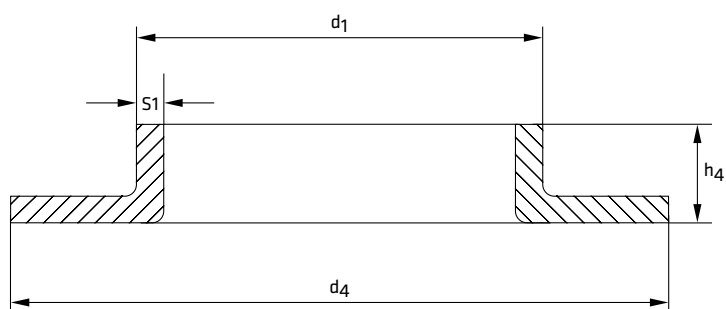
nominal pressure/ diameter		pipe size d ₁	S	D	Øk	d ₂	number of drill holes	stainless		
								grade	1.4541	1.4571
DN	PN	mm	mm	mm	mm	mm		AISI	321	316Ti
								kg/pce	*)	*)
10	16	17,2	1,8	90	60	14	4	0,58	▪	▪
15	16	21,3	2,0	95	65	14	4	0,65	▪	▪
20	16	26,9	2,0	105	75	14	4	0,95	▪	▪
25	16	33,7	2,6	115	85	14	4	1,14	▪	▪
32	16	42,4	2,6	140	100	18	4	1,69	▪	▪
40	16	48,3	2,6	150	110	18	4	1,86	▪	▪
100	16	108,0	3,6	220	180	18	8	4,62		▪
125	16	133,0	4,0	250	210	18	8	6,30		▪
150	16	159,0	4,5	285	240	22	8	7,75		▪

* finishes see page 143



nominal pressure/ diameter		Whitworth pipe thread DIN 2999	d ₁	D	b	Øk	d ₂	number of drill holes	stainless	
									grade	1.4571
DN	PN		mm	mm	mm	mm	mm		AISI	316Ti
									kg/pce	*)
15	10 / 16	R 1/2"	21,3	95	14	65	14	4	0,61	▪
20	10 / 16	R 3/4"	26,9	105	16	75	14	4	0,91	▪
25	10 / 16	R 1"	33,7	115	16	85	14	4	1,10	▪
32	10 / 16	R 1 1/4"	42,4	140	16	100	18	4	1,60	▪
40	10 / 16	R 1 1/2"	48,3	150	16	110	18	4	1,78	▪
50	10 / 16	R 2"	60,3	165	18	125	18	4	2,43	▪
65	10 / 16	R 2 1/2"	76,1	185	18	145	18	4	3,18	▪
80	10 / 16	R 3"	88,9	200	20	160	18	8	4,12	▪
100	10 / 16	R 4"	114,3	220	20	180	18	8	4,47	▪

* finishes see page 143



pipe size	S1	h4	d1	d4	stainless		
					grade	1.4541	1.4571
					AISI	321	316Ti
					kg/pce	*)	*)
17,2	1,8	9	17,2	40	0,02	▪	
17,2	2,0	9	17,2	40	0,02	▪	▪
18,0	1,5	9	18,0	45	0,03	▪	▪
21,3	2,0	9	21,3	45	0,04	▪	▪
23,0	1,5	12	23,0	58	0,05		▪
26,9	2,0	12	26,9	58	0,06	▪	▪
28,0	1,5	15	28,0	68	0,07		▪
33,7	2,0	15	33,7	68	0,09	▪	▪
33,7	2,6	15	33,7	68	0,11	▪	▪
35,0	1,5	15	35,0	78	0,09		▪
42,4	2,0	15	42,4	78	0,11	▪	▪
42,4	2,5	15	42,4	78	0,12	▪	▪
48,3	2,0	17	48,3	88	0,14	▪	▪
48,3	2,6	17	48,3	88	0,16	▪	▪
54,0	2,0	21	54,0	102	0,19		▪
60,3	2,0	23	60,3	102	0,19	▪	▪
60,3	2,5	23	60,3	102	0,25		▪
60,3	2,6	23	60,3	102	0,25		
60,3	3,0	23	60,3	102	0,24	▪	▪
70,0	2,0	23	70,0	122	0,26		▪
76,1	2,0	23	76,1	122	0,25	▪	
76,1	2,6	23	76,1	122	0,30	▪	▪
76,1	3,0	23	76,1	122	0,34		▪
84,0	2,0	23	84,0	138	0,27		▪
88,9	2,0	23	88,9	138	0,26	▪	
88,9	2,6	23	88,9	138	0,37	▪	▪
88,9	3,0	23	88,9	138	0,40	▪	▪
104,0	2,0	27	104,0	158	0,43		▪
108,0	3,0	28	108,0	158	0,56		▪
114,3	2,0	28	114,3	160	0,40	▪	
114,3	2,6	28	114,3	160	0,47	▪	▪

* finishes see page 143

Welding collars | similar to DIN 2642 | standard grades

pipe size	S1	h4	d1	d4	stainless		
					grade	1.4541	1.4571
					AISI	321	316Ti
					kg/pce	*)	*)
114,3	3,0	28	114,3	160	0,51		▪
129,0	2,0	30	129,0	188	0,55		▪
133,0	3,0	30	133,0	188	0,72		▪
139,7	2,6	30	139,7	188	0,52	▪	▪
139,7	3,0	30	139,7	188	0,66		▪
154,0	2,0	31	154,0	212	0,54		▪
159,0	3,0	30	159,0	212	0,52		▪
168,3	2,5	30	168,3	212	0,61		▪
168,3	2,6	30	168,3	212	0,64	▪	
168,3	3,0	30	168,3	212	0,75	▪	▪
204,0	2,0	30	204,0	270	0,77		▪
219,1	3,0	30	219,1	270	1,08	▪	▪
219,1	4,0	30	219,1	270	1,35		▪
254,0	2,0	30	254,0	320	0,98		▪
273,0	3,0	30	273,0	320	1,34	▪	▪
273,0	4,0	30	273,0	320	1,43		▪
306,0	3,0	35	306,0	370	1,51		▪
323,9	3,0	35	323,9	370	1,35	▪	▪
323,9	4,0	35	323,9	370	1,80		▪
355,6	3,0	35	355,6	430	1,88	▪	▪
355,6	4,0	35	355,6	430	2,51		▪
406,4	3,0	37	406,4	482	2,15	▪	▪
406,4	4,0	37	406,4	482	2,86	▪	▪
508,0	3,0	37	508,0	585	2,77	▪	▪
508,0	4,0	37	508,0	585	3,70	▪	▪
609,6	4,0	45	609,6	685	4,75		▪

Welding collars | similar to DIN 2642 | special grades

pipe size	S1	h4	d1	d4	highly corrosion resistant		
					grade	1.4539	
					AISI	904L	
					kg/pce	*)	
26,9	3,0	12	26,9	58	0,07	▪	
42,4	3,0	15	42,4	78	0,14	▪	
60,3	3,0	20	60,3	102	0,24	▪	
219,1	2,6	30	219,1	270	0,82	▪	
273,0	3,0	30	273,0	320	1,34	▪	
323,9	3,0	35	323,9	370	1,35	▪	

* finishes see page 143



THREADED FITTINGS

164- 173



Find the right connection

Tubes aren't always straight – the right fittings ensure that they can also go around corners, edges and angles. We are prepared: our complete range in threaded fittings will always provide you with the proper connection.

Fittings | threaded fittings

* pickled or metal bright

Technical terms of delivery

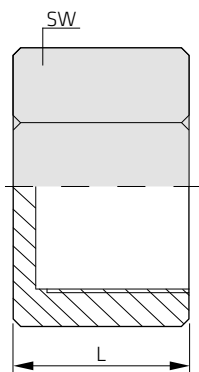
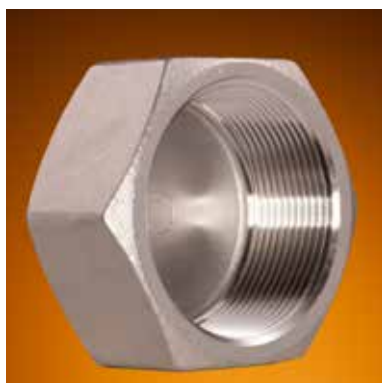
ISO 4144, ISO 7-1

Test certificates

DIN EN 10204 3.1 for the cast analysis

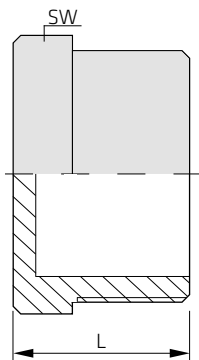
* Classification see page 164 - 172

Hexagon cap



INCH	nominal diameter	L	SW	stainless	
				grade	1.4408
				AISI	316
		mm	mm	kg/pce	*)
1/4"	8	17	18	0,03	▪
3/8"	10	19	21	0,04	▪
1/2"	15	20	27	0,05	▪
3/4"	20	24	30	0,08	▪
1"	25	25	38	0,14	▪
1 1/4"	32	28	50	0,20	▪
1 1/2"	40	28	55	0,23	▪
2"	50	34	70	0,44	▪

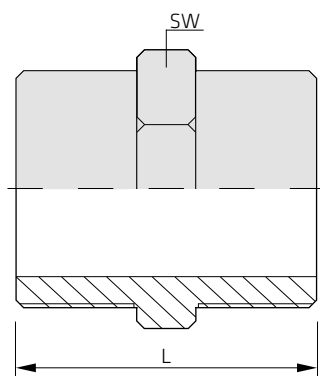
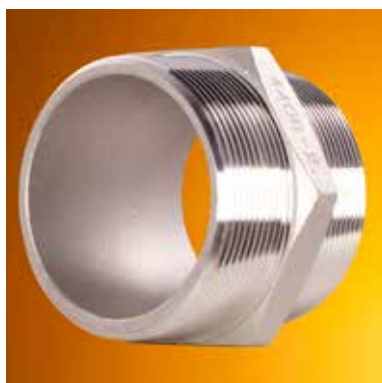
Hexagon head



INCH	nominal diameter	L	SW	stainless	
				grade	1.4408
				AISI	316
		mm	mm	kg/pce	*)
1/4"	8	17,5	16	0,02	▪
3/8"	10	18,0	20	0,04	▪
1/2"	15	25,0	24	0,07	▪
3/4"	20	26,0	30	0,11	▪
1"	25	29,0	38	0,15	▪
1 1/4"	32	35,0	46	0,26	▪
1 1/2"	40	38,0	52	0,37	▪
2"	50	39,0	65	0,50	▪

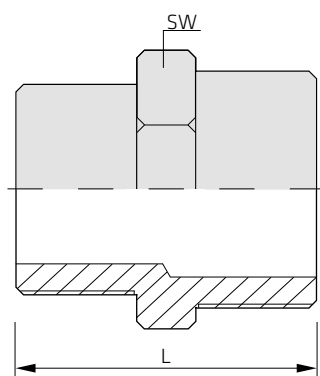
* finishes see page 163

Hexagon nipple



INCH	nominal diameter	L	SW	stainless	
				grade	1.4408
				AISI	316
		mm	mm	kg/pce	*)
1/4"	8	27,8	16,0	0,02	▪
3/8"	10	28,0	19,0	0,04	▪
1/2"	15	34,0	21,6	0,06	▪
3/4"	20	40,0	30,0	0,09	▪
1"	25	46,0	36,0	0,14	▪
1 1/4"	32	52,5	46,0	0,23	▪
1 1/2"	40	54,0	50,0	0,29	▪
2"	50	62,0	64,5	0,46	▪

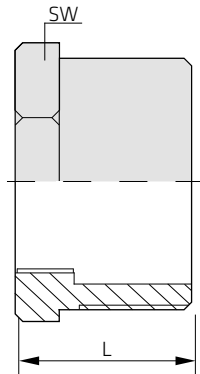
Hexagon reducing nipple



INCH	nominal diameter	L	SW	stainless	
				grade	1.4408
				AISI	316
		mm	mm	kg/pce	*)
1/4" x 1/8"	8 x 6	34,0	18,0	0,03	▪
3/8" x 1/4"	10 x 8	35,5	21,0	0,05	▪
1/2" x 3/8"	15 x 10	41,0	26,0	0,07	▪
3/4" x 1/2"	20 x 15	46,0	30,0	0,11	▪
1" x 3/4"	25 x 20	50,0	37,0	0,17	▪
1 1/4" x 1"	32 x 25	54,0	46,0	0,25	▪
1 1/2" x 1 1/4"	40 x 32	59,0	51,5	0,37	▪
2" x 1"	50 x 25	57,0	63,0	0,43	▪
2" x 1 1/2"	50 x 40	65,4	64,0	0,52	▪

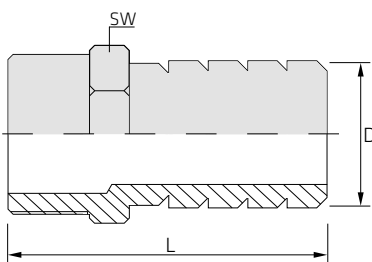
* finishes see page 163

Hexagon reducing bushing



INCH	nominal diameter	L	SW	stainless	
				grade	1.4408
				AISI	316
		mm	mm	kg/pce	*)
1/4" x 1/8"	8 x 6	15,2	16	0,01	▪
3/8" x 1/4"	10 x 8	16,5	18	0,02	▪
1/2" x 3/8"	15 x 10	22,0	26	0,03	▪
3/4" x 1/2"	20 x 15	24,0	30	0,05	▪
1" x 3/4"	25 x 20	27,0	35	0,09	▪
1 1/4" x 1"	32 x 25	30,0	45	0,14	▪
1 1/2" x 1 1/4"	40 x 32	38,0	52	0,17	▪
2" x 1"	50 x 25	37,0	63	0,45	▪
2" x 1 1/2"	50 x 40	37,0	63	0,33	▪

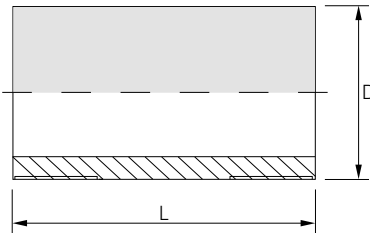
Hose nipple



INCH	nominal diameter	L	D	SW	stainless	
					grade	1.4408
					AISI	316
		mm	mm	mm	kg/pce	*)
1/4"	8	47	9	12,7	0,03	▪
3/8"	10	55	11	12,7	0,04	▪
1/2"	15	64	14	19,0	0,05	▪
3/4"	20	68	20,5	25,4	0,15	▪
1"	25	71	27	27,0	0,25	▪
1 1/4"	32	80	33	33,0	0,37	▪
1 1/2"	40	95	39,5	39,5	0,49	▪
2"	50	105	52	52,0	0,72	▪

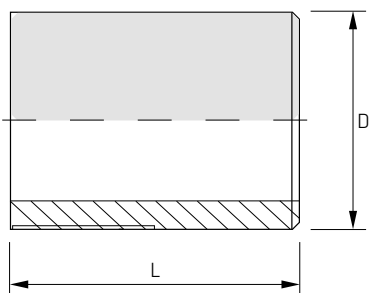
* finishes see page 163

Double nipple



INCH	nominal diameter	L	D	stainless	
				grade	1.4571
				AISI	316Ti
				kg/pce	*)
1/4"	8	40	13,5	0,04	▪
3/8"	10	40	17,2	0,04	▪
1/2"	15	60	21,3	0,06	▪
3/4"	20	60	26,9	0,15	▪
1"	25	60	33,7	0,16	▪
1 1/4"	32	80	42,4	0,27	▪
1 1/2"	40	80	48,3	0,35	▪
2"	50	100	60,3	0,50	▪

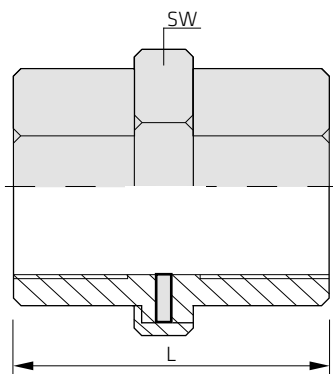
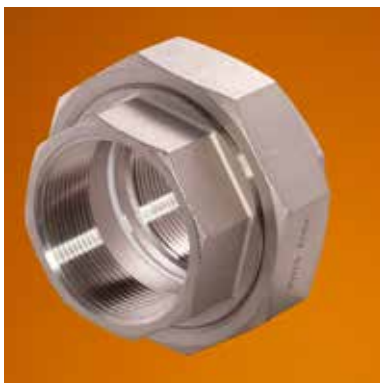
Welding nipple



INCH	nominal diameter	L	D	stainless	
				grade	1.4571
				AISI	316Ti
				kg/pce	*)
1/4"	8	30	13,5	0,03	▪
3/8"	10	30	17,2	0,03	▪
1/2"	15	35	21,3	0,04	▪
3/4"	20	40	26,9	0,05	▪
1"	25	40	33,7	0,08	▪
1 1/4"	32	50	42,4	0,25	▪
1 1/2"	40	50	48,3	0,30	▪
2"	50	50	60,3	0,35	▪

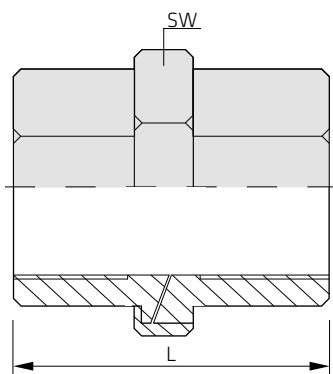
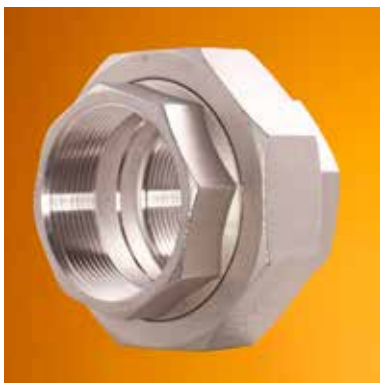
* finishes see page 163

Union flat F/F



INCH	nominal diameter	L	SW	stainless	
				grade	1.4408
				AISI	316
		mm	mm	kg/pce	*)
1/4"	8	34,0	30	0,15	▪
3/8"	10	37,0	35	0,19	▪
1/2"	15	40,5	41	0,19	▪
3/4"	20	43,0	48	0,40	▪
1"	25	50,5	54	0,48	▪
1 1/4"	32	54,5	65	0,63	▪
1 1/2"	40	58,5	72	0,81	▪
2"	50	65,5	88	1,16	▪

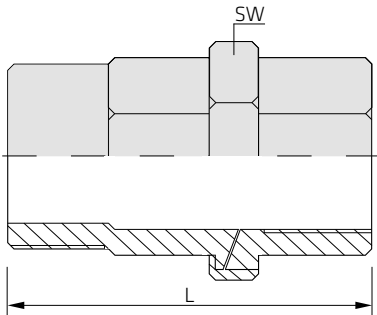
Union conical F/F



INCH	nominal diameter	L	SW	stainless	
				grade	1.4408
				AISI	316
		mm	mm	kg/pce	*)
1/4"	8	34,0	30	0,15	▪
3/8"	10	37,0	35	0,20	▪
1/2"	15	40,5	41	0,19	▪
3/4"	20	43,0	48	0,28	▪
1"	25	50,5	54	0,42	▪
1 1/4"	32	54,5	65	0,62	▪
1 1/2"	40	58,5	72	0,82	▪
2"	50	65,5	88	1,22	▪

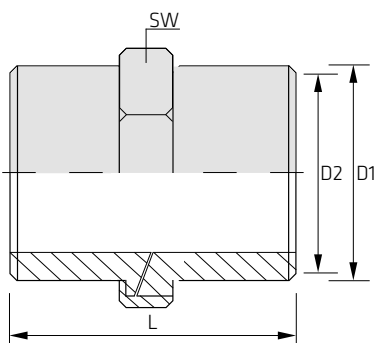
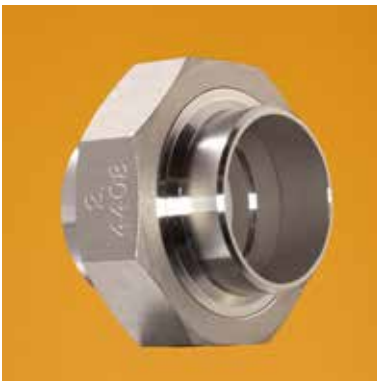
* finishes see page 163

Union conical F/M



INCH	nominal diameter	L	SW	stainless	
				grade	1.4408
				AISI	316
		mm	mm	kg/pce	*)
1/4"	8	45,0	30	0,15	▪
3/8"	10	48,5	35	0,20	▪
1/2"	15	55,5	41	0,23	▪
3/4"	20	59,0	48	0,36	▪
1"	25	69,0	54	0,40	▪
1 1/4"	32	75,5	65	0,77	▪
1 1/2"	40	79,5	72	0,94	▪
2"	50	91,0	88	1,41	▪

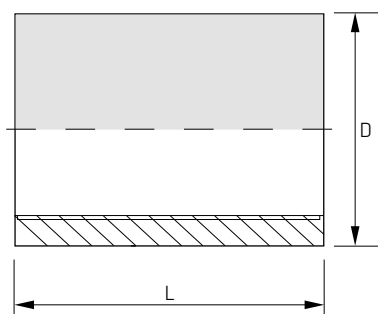
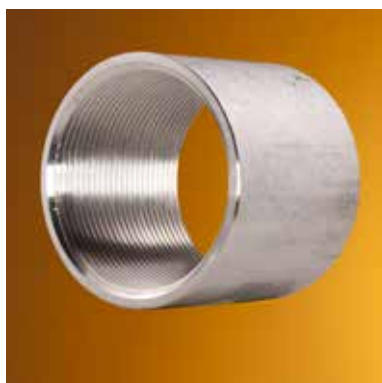
Union conical butt weld



INCH	nominal diameter	L	SW	D1	D2	stainless	
						grade	1.4408
						AISI	316
		mm	mm	mm	mm	kg/pce	*)
3/8"	10	38,0	35	17,2	12,7	0,20	▪
1/2"	15	42,0	42	21,3	16,7	0,23	▪
3/4"	20	50,4	47	26,9	21,5	0,28	▪
1"	25	48,0	53	33,7	26,5	0,41	▪
1 1/4"	32	59,0	71	42,4	35,8	0,62	▪
1 1/2"	40	64,0	78	48,3	42,0	0,79	▪
2"	50	69,0	92	60,3	53,3	1,18	▪

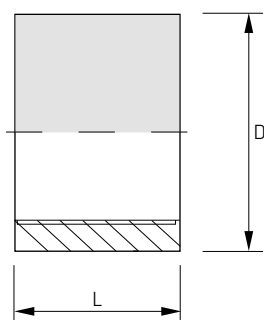
* finishes see page 163

Coupling



INCH	nominal diameter	L	D	stainless	
				grade	1.4571
				AISI	316Ti
		mm	mm	kg/pce	*)
1/4"	8	26	19,5	0,03	▪
3/8"	10	27	22,3	0,04	▪
1/2"	15	34	27,7	0,04	▪
3/4"	20	36	33,6	0,10	▪
1"	25	43	39,5	0,12	▪
1 1/4"	32	48	48,3	0,15	▪
1 1/2"	40	48	54,6	0,35	▪
2"	50	56	66,3	0,45	▪

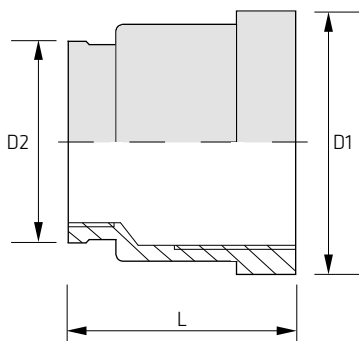
Half coupling



INCH	nominal diameter	L	D	stainless	
				grade	1.4571
				AISI	316Ti
		mm	mm	kg/pce	*)
1/4"	8	12	19,5	0,02	▪
3/8"	10	13	22,3	0,02	▪
1/2"	15	15	27,7	0,03	▪
3/4"	20	17	33,6	0,03	▪
1"	25	20	39,5	0,06	▪
1 1/4"	32	22	48,3	0,12	▪
1 1/2"	40	22	54,6	0,20	▪
2"	50	26	66,3	0,25	▪

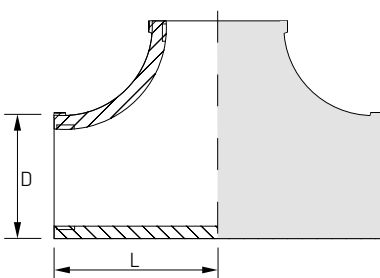
* finishes see page 163

Reducing coupling



INCH	nominal diameter	L	D1	D2	stainless	
					grade	1.4408
					AISI	316
		mm	mm	mm	kg/pce	*)
3/4" x 1/2"	20 x 15	37	37	28,1	0,10	▪
1" x 1/2"	25 x 15	42	43	29,4	0,15	▪
1" x 3/4"	25 x 20	42	43	32,0	0,16	▪

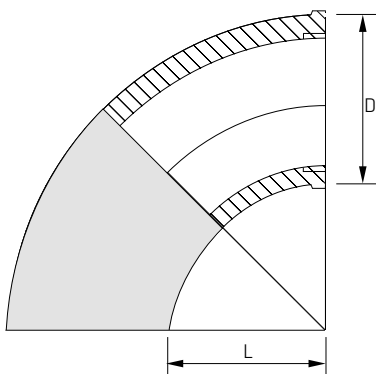
Tee equal



INCH	nominal diameter	L	D	stainless	
				grade	1.4408
				AISI	316
		mm	mm	kg/pce	*)
1/4"	8	19,5	19,0	0,08	▪
3/8"	10	23,5	22,5	0,08	▪
1/2"	15	27,5	27,5	0,13	▪
3/4"	20	32,5	33,0	0,22	▪
1"	25	38,5	40,5	0,32	▪
1 1/4"	32	45,5	50,0	0,52	▪
1 1/2"	40	48,5	56,5	0,69	▪
2"	50	57,5	70,0	0,98	▪

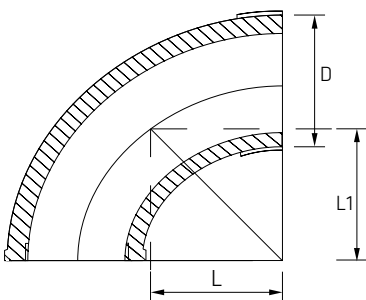
* finishes see page 163

Elbow 90° F/F



INCH	nominal diameter	L	D	stainless	
				grade	1.4408
				AISI	316
		mm	mm	kg/pce	*)
1/4"	8	19,5	19,0	0,03	▪
3/8"	10	23,5	22,5	0,05	▪
1/2"	15	27,5	27,5	0,08	▪
3/4"	20	32,5	33,0	0,15	▪
1"	25	38,5	40,5	0,24	▪
1 1/4"	32	45,5	50,0	0,37	▪
1 1/2"	40	48,5	56,5	0,61	▪
2"	50	57,5	70,0	0,82	▪

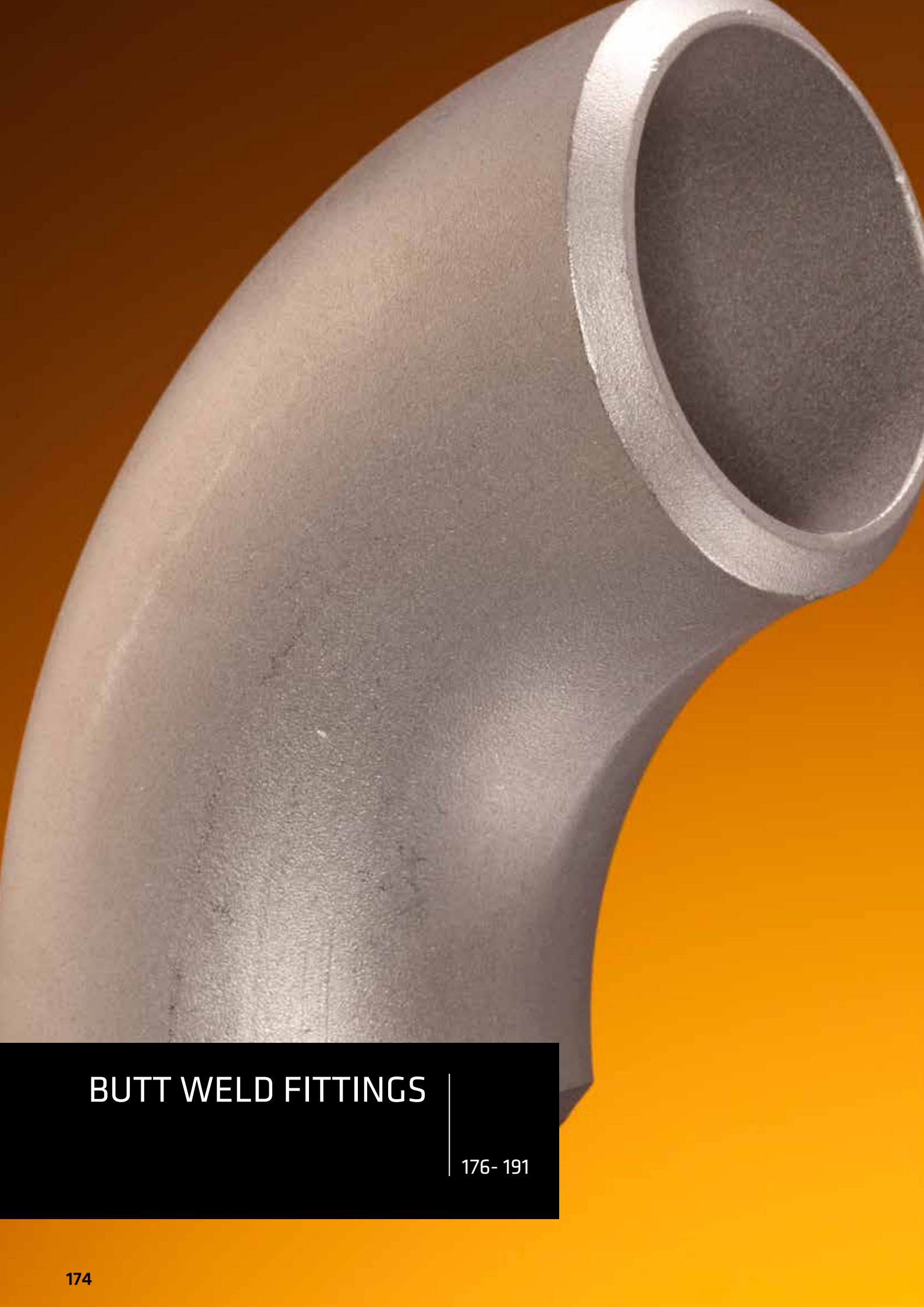
Street elbow 90° F/M



INCH	nominal diameter	L	L1	D	stainless	
					grade	1.4408
					AISI	316
		mm	mm	mm	kg/pce	*)
1/4"	8	27,5	19,5	19,0	0,05	▪
3/8"	10	29,5	23,5	22,5	0,08	▪
1/2"	15	35,5	27,5	27,0	0,11	▪
3/4"	20	40,5	32,5	32,5	0,17	▪
1"	25	46,5	38,5	40,0	0,33	▪
1 1/4"	32	54,5	45,5	50,0	0,49	▪
1 1/2"	40	57,5	48,5	56,5	0,63	▪
2"	50	70,5	57,5	69,0	0,90	▪

* finishes see page 163





BUTT WELD FITTINGS

176- 191

It's all a matter of form

When pipelines change their direction, often butt weld fittings are used. Finding the right butt weld fitting for your need is just a matter of form for us. Rely on our experience and our wide product range ex stock.

Fittings | butt weld fittings

* pickled, metal bright, blasted

Technical terms of delivery

DIN EN 10253-4 and DIN 2609, DIN EN 10217-7, DIN EN 10216-5 also in connection with AD-2000-leaflet W 2/W 10 for the base material used and the final product and VdTÜV sheet 1252 according to agreement

Tolerances

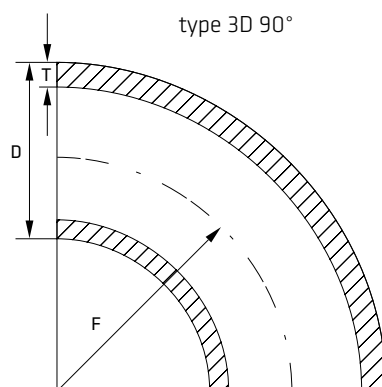
DIN EN 10253-4, DIN EN 1092-1 and DIN 2605, 2609, 2615, 2616 and similar¹⁾
DIN 28011

Test certificates

DIN EN 10204 3.1 for the base material and the final product

¹⁾ Dimensions and finishes may vary due to production. Coordination maybe necessary.

* Classification see page 176 - 191



outside-Ø	wall thickness	D	T	F	stainless	
					grade	1.4571
					AISI	316Ti
mm	mm	mm	mm	mm	kg/pce	*)
12,00	1,50	12,00	1,50	15,0	0,02	▪
15,00	1,50	15,00	1,50	27,5	0,02	▪
17,20	2,30	17,20	2,30	27,5	0,04	▪
21,30	2,00	21,30	2,00	28,0	0,04	▪
21,30	2,60	21,30	2,60	28,0	0,06	▪
26,90	2,00	26,90	2,00	29,0	0,06	▪
26,90	2,60	26,90	2,60	29,0	0,08	▪
33,70	2,00	33,70	2,00	38,0	0,10	▪
33,70	2,60	33,70	2,60	38,0	0,12	▪
33,70	3,20	33,70	3,20	38,0	0,14	▪
42,40	2,60	42,40	2,60	48,0	0,19	▪
42,40	3,20	42,40	3,20	48,0	0,23	▪
48,30	2,60	48,30	2,00	57,0	0,26	▪
48,30	3,20	48,30	2,90	57,0	0,32	▪
60,30	2,00	60,30	2,00	76,0	0,34	▪
60,30	2,90	60,30	2,90	76,0	0,49	▪
60,30	3,60	60,30	3,60	76,0	0,62	▪
76,10	2,90	76,10	2,90	95,0	0,88	▪
76,10	3,60	76,10	3,60	95,0	0,98	▪
88,90	2,60	88,90	2,60	114,0	1,02	▪
88,90	3,20	88,90	3,20	114,0	1,15	▪
88,90	4,00	88,90	4,00	114,0	1,57	▪
114,30	3,60	114,30	3,60	152,0	2,35	▪
139,70	4,00	139,70	4,00	190,0	4,09	▪
168,30	4,50	168,30	4,50	229,0	7,00	▪

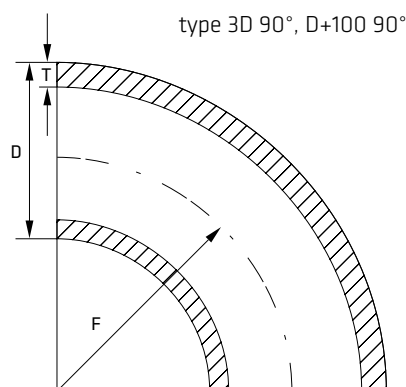
Cutting service for 45° elbows from DN 15 up to DN 300, length according to EN 10253 or cut in the middle from 90° elbow.

* finishes see page 175

outside-Ø	wall thickness	D	T	F	Duplex		highly corrosion resistant
					grade	1.4462	1.4539
					AISI/UNS	S31803	904L
mm	mm	mm	mm	mm	kg/pce	*)	*)
21,34	2,11	21,34	2,11	28,0	0,04	▪	▪
21,34	2,77	21,34	2,77	28,0	0,08	▪	▪
26,67	2,11	26,67	2,11	29,0	0,06	▪	▪
26,67	2,87	26,67	2,87	29,0	0,08	▪	▪
33,40	2,77	33,40	2,77	38,0	0,12	▪	▪
33,40	3,38	33,40	3,38	38,0	0,16	▪	▪
42,16	2,77	42,16	2,77	48,0	0,19	▪	▪
42,16	3,56	42,16	3,56	48,0	0,27	▪	▪
48,26	2,77	48,26	2,77	57,0	0,28	▪	▪
48,26	3,68	48,26	3,68	57,0	0,37	▪	▪
60,33	2,77	60,33	2,77	76,0	0,49	▪	▪
60,33	3,91	60,33	3,91	76,0	0,70	▪	▪
73,03	3,05	73,03	3,05	95,0	0,80	▪	▪
73,03	5,16	73,03	5,16	95,0	1,30	▪	▪
76,10	4,00	76,10	4,00	95,0	1,18	▪	▪
88,90	3,05	88,90	3,05	114,0	1,20	▪	▪
88,90	5,49	88,90	5,49	114,0	2,14	▪	▪
88,90	7,62	88,90	7,62	114,0	2,75		▪
114,30	3,05	114,30	3,05	152,0	2,00	▪	▪
114,30	6,02	114,30	6,02	152,0	4,00	▪	▪
114,30	8,56	114,30	8,56	152,0	5,35		▪
168,30	7,11	168,30	7,11	229,0	10,25	▪	▪
219,10	8,18	219,10	8,18	305,0	22,40	▪	▪

Cutting service for 45° elbows from DN 15 up to DN 300, length according to EN 10253 or cut in the middle from 90° elbow.

* finishes see page 175



outside-Ø	wall thickness	D	T	F	stainless				
					grade	1.4301	1.4404	1.4541	1.4571
					AISI	304	316L	321	316Ti
mm	mm	mm	mm	mm	kg/pce	*)	*)	*)	*)
17,2	1,6	17,2	1,6	27,5	0,03			▪	▪
18,0	1,5	18,0	1,5	22,5	0,02				▪
21,3	1,6	21,3	1,6	28,0	0,03				▪ ¹⁾
21,3	2,0	21,3	2,0	28,0	0,06		▪	▪	▪ ¹⁾
21,3	2,6	21,3	2,6	28,0	0,06			▪	▪
23,0	1,5	23,0	1,5	25,0	0,04				▪
26,9	2,0	26,9	2,0	29,0	0,06		▪	▪	▪ ¹⁾
26,9	2,6	26,9	2,6	29,0	0,08			▪	▪
28,0	1,5	28,0	1,5	32,5	0,06				▪
30,0	2,0	30,0	2,0	33,5	0,07			▪	
33,7	2,0	33,7	2,0	38,0	0,10		▪	▪	▪ ¹⁾
33,7	2,6	33,7	2,6	38,0	0,12			▪	▪
33,7	3,2	33,7	3,2	38,0	0,14			▪	▪
35,0	1,5	35,0	1,5	45,0	0,10				▪
40,0	2,0	40,0	2,0	45,0	0,13			▪	
42,4	2,0	42,4	2,0	48,0	0,16		▪	▪	▪ ¹⁾
42,4	2,6	42,4	2,6	48,0	0,19			▪	▪
42,4	3,2	42,4	3,2	48,0	0,23			▪	▪
43,0	1,5	43,0	1,5	47,5	0,15				▪
48,3	2,0	48,3	2,0	57,0	0,22		▪	▪	▪ ¹⁾
48,3	2,6	48,3	2,6	57,0	0,26			▪	▪
48,3	3,2	48,3	3,2	57,0	0,32			▪	▪
54,0	2,0	54,0	2,0	70,0	0,31			▪	▪
60,3	2,0	60,3	2,0	76,0	0,34	▪	▪	▪	▪ ¹⁾
60,3	2,6	60,3	2,6	76,0	0,44			▪	▪
60,3	2,9	60,3	2,9	76,0	0,49	▪		▪	▪
60,3	3,6	60,3	3,6	76,0	0,62				▪

1) with AD2000 W2

2) also available with a radius of D+100

3) R=1D

Cutting service for 45° elbows from DN 15 up to DN 300, length according to EN 10253 or cut in the middle from 90° elbow.

* finishes see page 175

outside-Ø	wall thickness	D	T	F	stainless				
					grade	1.4301	1.4404	1.4541	1.4571
					AISI	304	316L	321	316Ti
mm	mm	mm	mm	mm	kg/pce	*)	*)	*)	*)
70,0	2,0	70,0	2,0	92,0	0,47			▪	▪
76,1	2,0	76,1	2,0	95,0	0,62	▪	▪	▪	▪
76,1	2,3	76,1	2,3	95,0	0,72			▪	▪ ¹⁾
76,1	2,6	76,1	2,6	95,0	0,77				▪
76,1	2,9	76,1	2,9	95,0	0,88	▪		▪	▪
76,1	3,6	76,1	3,6	95,0	1,08				▪
84,0	2,0	84,0	2,0	120,0	0,77				▪
88,9	2,0	88,9	2,0	114,0	0,81	▪	▪	▪	▪
88,9	2,3	88,9	2,3	114,0	0,94			▪	▪ ¹⁾
88,9	2,6	88,9	2,6	114,0	1,02	▪		▪	▪
88,9	3,0	88,9	2,9/3,0	114,0	1,15	▪		▪	▪
88,9	3,2	88,9	3,2	114,0	1,22			▪	
101,6	3,0	101,6	3,0	133,0	1,56	▪			
104,0	2,0	104,0	2,0	150,0	1,20	▪			▪
108,0	3,0	108,0	3,0	142,5	1,25				▪
114,3	2,0	114,3	2,0	152,0	1,35	▪	▪	▪	▪
114,3	2,6	114,3	2,6	152,0	1,60	▪		▪	▪ ¹⁾
114,3	2,9	114,3	2,9	152,0	1,95	▪		▪	▪
114,3	3,0	114,3	3,0	152,0	2,00				▪
114,3	3,6	114,3	3,6	152,0	2,50			▪	▪
129,0	2,0	129,0	2,0	187,5	1,87				▪
133,0	3,0	133,0	3,0	181,0	2,00				▪
139,7	2,0	139,7	2,0	190,0	2,06	▪	▪		▪
139,7	2,6	139,7	2,6	190,0	2,56	▪		▪	▪ ¹⁾
139,7	2,9	139,7	2,9	190,0	2,85	▪			
139,7	3,0	139,7	3,0	190,0	3,08			▪	▪
139,7	4,0	139,7	4,0	190,0	4,09				▪ ¹⁾
154,0	2,0	154,0	2,0	225,0	2,68				▪
159,0	3,0	159,0	3,0	216,0	3,00				▪
168,3	2,0	168,3	2,0	229,0	3,75	▪	▪		▪
168,3	2,6	168,3	2,6	229,0	3,88	▪		▪	▪ ¹⁾
168,3	3,0	168,3	3,0	229,0	4,47	▪		▪	▪
168,3	4,0	168,3	4,0	229,0	5,90				▪
204,0	2,0	204,0	2,0	300,0	4,75	▪			▪
219,1	2,0	219,1	2,0	305,0	5,21	▪			▪
219,1	2,6	219,1	2,6	305,0	6,29				▪
219,1	3,0	219,1	3,0	305,0	7,52	▪		▪	▪ ¹⁾³⁾
219,1	4,0	219,1	4,0	305,0	10,38				▪

1) with AD2000 W2

2) also available with a radius of D+100

3) R=1D

Cutting service for 45° elbows from DN 15 up to DN 300, length according to EN 10253 or cut in the middle from 90° elbow.

* finishes see page 175

outside-Ø	wall thickness	D	T	F	stainless				
					grade	1.4301	1.4404	1.4541	1.4571
					AISI	304	316L	321	316Ti
mm	mm	mm	mm	mm	kg/pce	*)	*)	*)	*)
254,0	2,0	254,0	2,0	375,0	7,41	▪			▪ ²⁾
273,0	3,0	273,0	3,0	381,0	12,00	▪		▪	▪ ¹⁾³⁾
273,0	4,0	273,0	4,0	381,0	16,10				▪
273,0	5,0	273,0	5,0	381,0	20,00				▪
273,0	6,0	273,0	6,0	381,0	24,00				▪
306,0	3,0	306,0	3,0	450,0	16,05				▪ ²⁾
323,9	3,0	323,9	3,0	487,0	17,31	▪		▪	▪ ³⁾
323,9	4,0	323,9	4,0	487,0	23,00				▪
323,9	5,0	323,9	5,0	487,0	28,63				▪
355,6	3,0	355,6	3,0	533,0	22,30	▪		▪	▪ ²⁾
355,6	4,0	355,6	4,0	533,0	35,30				▪
406,4	3,0	406,4	3,0	610,0	29,02	▪		▪	▪ ²⁾
406,4	4,0	406,4	4,0	610,0	38,10				▪
406,4	5,0	406,4	5,0	610,0	60,30				▪
508,0	3,0	508,0	3,0	762,0	35,75	▪			▪ ²⁾
508,0	4,0	508,0	4,0	762,0	59,28				▪
609,6	4,0	609,6	4,0	914,0	87,65				▪

1) with AD2000 W2

2) also available with a radius of D+100

3) R=1D

Cutting service for 45° elbows from DN 15 up to DN 300, length according to EN 10253 or cut in the middle from 90° elbow.

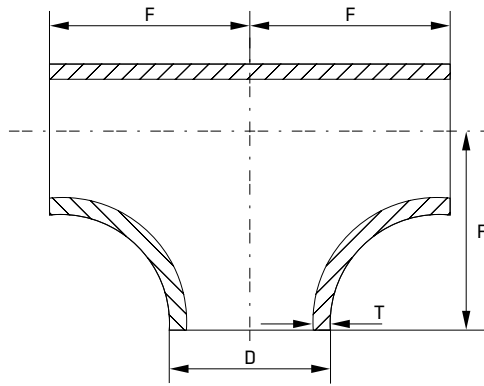
* finishes see page 175

outside-Ø	wall thickness	D	T	F	highly corrosion resistant	
					grade	1.4539
					AISI	904L
mm	mm	mm	mm	mm	kg/pce	*)
76,1	3,0	76,1	3,0	95,0	0,92	▪
139,7	3,0	139,7	3,0	190,0	3,08	▪
219,1	4,0	219,1	4,0	305,0	10,38	▪
273,0	4,0	273,0	4,0	381,0	16,30	▪
323,9	4,0	323,9	4,0	487,0	23,00	▪

Cutting service for 45° elbows from DN 15 up to DN 300, length according to EN 10253 or cut in the middle from 90° elbow.

* finishes see page 175



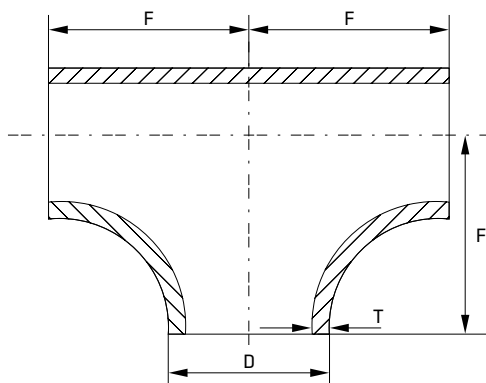


outside-Ø	wall thickness	D	T	F	stainless		
					grade	1.4541	1.4571
					AISI	321	316Ti
mm	mm	mm	mm	mm	kg/pce	*)	*)
17,20	2,30	17,20	2,30	20	0,06		▪
21,30	1,60	21,30	1,60	25	0,08		▪
21,30	2,00	21,30	2,00	25	0,09	▪	▪
21,30	2,90	21,30	2,90	25	0,12		▪
26,90	2,00	26,90	2,00	29	0,15	▪	▪
33,70	2,00	33,70	2,00	38	0,22	▪	▪
33,70	2,60	33,70	2,60	38	0,29		▪
42,40	2,00	42,40	2,00	48	0,34	▪	▪
42,40	2,60	42,40	2,60	48	0,42		▪
48,30	2,00	48,30	2,00	57	0,47	▪	▪
48,30	2,60	48,30	2,60	57	0,59		▪
60,30	2,00	60,30	2,00	64	0,64	▪	▪
60,30	2,90	60,30	2,90	64	0,90		▪
76,10	2,90	76,10	2,90	76	1,35		▪
88,90	3,20	88,90	3,20	86	1,95		▪
114,30	3,60	114,30	3,60	105	3,30		▪

* finishes see page 175

outside-Ø	wall thickness	D	T	F	Duplex		highly corrosion resistant
					grade	1.4462	1.4539
					AISI/UNS	S31803	904L
mm	mm	mm	mm	mm	kg/pce	*)	*)
21,34	2,11	21,34	2,11	25	0,10	▪	▪
21,34	2,77	21,34	2,77	25	0,08	▪	▪
26,67	2,11	26,67	2,11	29	0,13	▪	▪
26,67	2,87	26,67	2,87	29	0,18	▪	▪
33,40	2,77	33,40	2,77	38	0,24	▪	▪
33,40	3,38	33,40	3,38	38	0,28	▪	▪
33,40	4,55	33,40	4,55	38	0,47		▪
42,16	2,77	42,16	2,77	48	0,46	▪	▪
42,16	3,56	42,16	3,56	48	0,41	▪	▪
48,26	2,77	48,26	2,77	57	0,65	▪	▪
48,26	3,68	48,26	3,68	57	1,70	▪	▪
60,33	2,77	60,33	2,77	64	0,63	▪	▪
60,33	3,91	60,33	3,91	64	1,20	▪	▪
60,33	5,54	60,33	5,54	64	2,10	▪	▪
73,03	3,05	73,03	3,05	76	1,01	▪	▪
73,03	5,16	73,03	5,16	76	2,40	▪	▪
76,10	4,00	76,10	4,00	76	1,73	▪	▪
88,90	3,05	88,90	3,05	86	1,80	▪	▪
88,90	5,49	88,90	5,49	86	1,90	▪	▪
88,90	7,62	88,90	7,62	86	4,90		▪
114,30	3,05	114,30	3,05	105	2,70	▪	▪
114,30	6,02	114,30	6,02	105	4,13	▪	▪
168,30	7,11	168,30	7,11	143	9,73	▪	▪
219,10	8,18	219,10	8,18	178	23,20	▪	▪

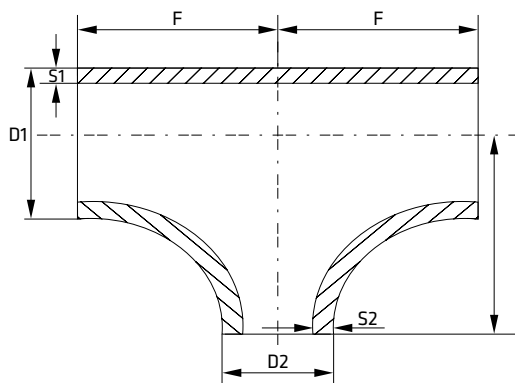
* finishes see page 175



outside-Ø	wall thickness	D	T	F	stainless		
					grade	1.4541	1.4571
					AISI	321	316Ti
					kg/pce	*)	*)
mm	mm	mm	mm	mm			
21,3	2,0	21,3	2,0	25	0,08	▪	▪
26,9	2,0	26,9	2,0	29	0,10	▪	▪
33,7	2,0	33,7	2,0	38	0,22	▪	▪
33,7	2,6	33,7	2,6	38	0,26		▪
42,4	2,0	42,4	2,0	48	0,34	▪	▪
42,4	2,6	42,4	2,6	48	0,42		▪
48,3	2,0	48,3	2,0	57	0,47	▪	▪
48,3	2,6	48,3	2,6	57	0,59		▪
54,0	2,0	54,0	2,0	61	0,48		▪
60,3	2,0	60,3	2,0	64	0,64	▪	▪
60,3	2,9	60,3	2,9	64	0,83		▪
70,0	2,0	70,0	2,0	76	0,70		▪
76,1	2,3	76,1	2,3	76	1,10	▪	▪
76,1	2,9	76,1	2,9	76	1,29		▪
84,0	2,0	84,0	2,0	82	0,94		▪
88,9	2,3	88,9	2,3	86	1,45	▪	▪
88,9	3,0	88,9	3,0	86	1,85		▪
104,0	2,0	104,0	2,0	98	1,39		▪
114,3	2,6	114,3	2,6	105	2,40	▪	▪
114,3	3,0	114,3	3,0	105	2,67		▪
129,0	2,0	129,0	2,0	115	2,24		▪
139,7	2,6	139,7	2,6	124	3,40	▪	▪
139,7	3,0	139,7	3,0	124	3,80		▪
154,0	2,0	154,0	2,0	143	4,50		▪
168,3	2,6	168,3	2,6	143	4,80	▪	▪
168,3	3,0	168,3	3,0	143	5,40		▪
219,1	3,0	219,1	3,0	178	7,50	▪	▪
219,1	4,0	219,1	4,0	178	12,70		▪
273,0	3,0	273,0	3,0	216	10,60		▪
323,9	3,0	323,9	3,0	254	15,00		▪

* finishes see page 175

Reducing tee | welded | EN 10253-4

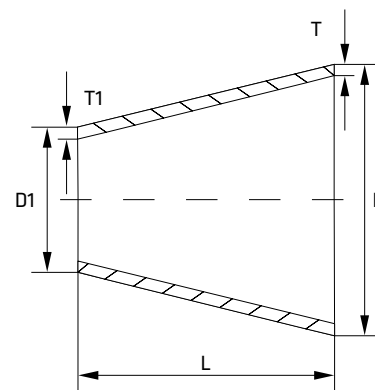
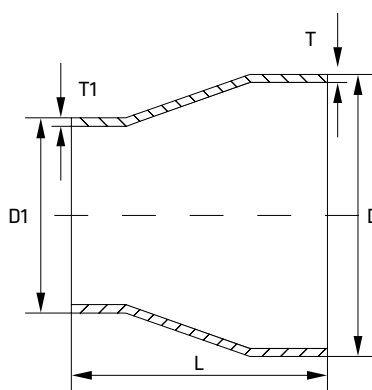


outside Ø	reduction Ø	D1	S1	D2	S2	F	stainless		
							grade	1.4541	1.4571
							AISI	321	316Ti
mm	mm	mm	mm	mm	mm	mm	kg/pce	*)	*)
33,7 x 2,0	26,9 x 1,6	33,7	2,0	26,9	1,6	38	0,22		▪
48,3 x 2,0	21,3 x 1,6	48,3	2,0	21,3	1,6	57	0,32	▪	
48,3 x 2,0	33,7 x 2,0	48,3	2,0	33,7	2,0	57	0,46	▪	
60,3 x 2,0	33,7 x 2,0	60,3	2,0	33,7	2,0	64	0,50	▪	▪
60,3 x 2,0	48,3 x 2,0	60,3	2,0	48,3	2,0	64	0,57	▪	
76,1 x 2,3	48,3 x 2,0	76,1	2,3	48,3	2,0	76	0,95		▪
76,1 x 2,3	60,3 x 2,0	76,1	2,3	60,3	2,0	76	1,00		▪
88,9 x 2,3	60,3 x 2,0	88,9	2,3	60,3	2,0	86	1,35		▪
88,9 x 2,3	76,1 x 2,3	88,9	2,3	76,1	2,3	86	1,40		▪
114,3 x 2,6	60,3 x 2,0	114,3	2,6	60,3	2,0	105	2,15		▪
114,3 x 2,6	76,1 x 2,3	114,3	2,6	76,1	2,3	105	2,15		▪
114,3 x 2,6	88,9 x 2,3	114,3	2,6	88,9	2,3	105	2,25		▪

Reducing tee | seamless | EN 10253-4

outside Ø	reduction Ø	D1	S1	D2	S2	F	stainless	
							grade	1.4541
							AISI	321
mm	mm	mm	mm	mm	mm	mm	kg/pce	*)
33,7 x 2,6	21,3 x 2,0	33,7	2,6	21,3	2,0	38	0,26	▪
60,3 x 2,9	21,3 x 2,0	60,3	2,9	21,3	2,0	57	0,72	▪

* finishes see page 175



size	size	D	T	D1	T1	L	stainless	
							grade	1.4571
mm	mm	mm	mm	mm	mm	mm	AISI	316Ti
							kg/pce	*)
21,30 x 2,00	17,20 x 1,80	21,30	2,00	17,20	1,80	38	0,03	▪
26,90 x 2,00	21,30 x 2,00	26,90	2,00	21,30	2,00	38	0,06	▪
26,90 x 2,30	17,20 x 1,80	26,90	2,30	17,20	1,80	38	0,07	▪
33,70 x 2,00	21,30 x 1,60	33,70	2,00	21,30	1,60	51	0,08	▪
33,70 x 2,00	21,30 x 2,00	33,70	2,00	21,30	2,00	51	0,08	▪
33,70 x 2,00	26,90 x 2,00	33,70	2,00	26,90	2,00	51	0,08	▪
33,70 x 2,60	21,30 x 2,00	33,70	2,60	21,30	2,00	51	0,08	▪
33,70 x 2,60	21,30 x 2,30	33,70	2,60	21,30	2,30	51	0,10	▪
33,70 x 2,60	26,90 x 2,00	33,70	2,60	26,90	2,00	51	0,09	▪
33,70 x 2,60	26,90 x 2,30	33,70	2,60	26,90	2,30	51	0,10	▪
42,40 x 2,00	21,30 x 2,00	42,40	2,00	21,30	2,00	51	0,12	▪
42,40 x 2,00	26,90 x 2,00	42,40	2,00	26,90	2,00	51	0,12	▪
42,40 x 2,00	33,70 x 2,00	42,40	2,00	33,70	2,00	51	0,12	▪
42,40 x 2,60	21,30 x 2,00	42,40	2,60	21,30	2,00	51	0,15	▪
42,40 x 2,60	26,90 x 2,30	42,40	2,60	26,90	2,30	51	0,13	▪
42,40 x 2,60	33,70 x 2,60	42,40	2,60	33,70	2,60	51	0,13	▪
42,40 x 3,60	33,70 x 3,60	42,40	3,60	33,70	3,60	51	0,19	▪
48,30 x 2,00	33,70 x 2,00	48,30	2,00	33,70	2,00	64	0,18	▪
48,30 x 2,60	21,30 x 2,00	48,30	2,60	21,30	2,00	64	0,25	▪
48,30 x 2,60	26,90 x 2,30	48,30	2,60	26,90	2,30	64	0,17	▪
48,30 x 2,60	33,70 x 2,60	48,30	2,60	33,70	2,60	64	0,21	▪
48,30 x 2,60	42,40 x 2,60	48,30	2,60	42,40	2,60	64	0,21	▪
60,30 x 2,00	26,90 x 1,60	60,30	2,00	26,90	1,60	76	0,30	▪
60,30 x 2,00	33,70 x 2,00	60,30	2,00	33,70	2,00	76	0,30	▪
60,30 x 2,00	42,40 x 2,00	60,30	2,00	42,40	2,00	76	0,32	▪
60,30 x 2,00	48,30 x 2,00	60,30	2,00	48,30	2,00	76	0,30	▪
60,30 x 2,90	21,30 x 2,00	60,30	2,90	21,30	2,00	76	0,37	▪
60,30 x 2,90	26,90 x 2,30	60,30	2,90	26,90	2,30	76	0,37	▪
60,30 x 2,90	33,70 x 2,60	60,30	2,90	33,70	2,60	76	0,37	▪
60,30 x 2,90	42,40 x 2,60	60,30	2,90	42,40	2,60	76	0,34	▪

* finishes see page 175

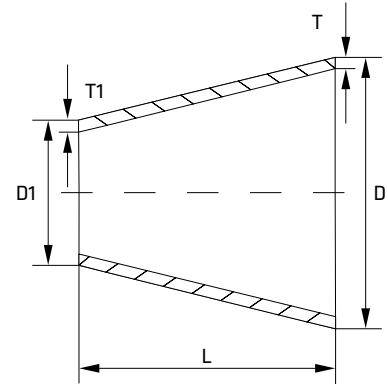
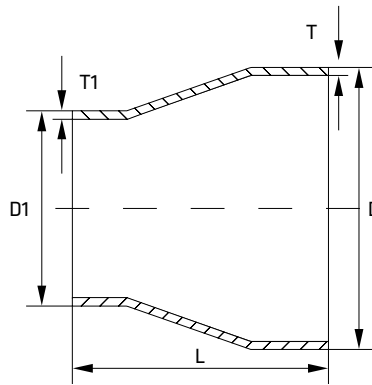
size	size	D	T	D1	T1	L	stainless	
							grade	1.4571
							AISI	316Ti
mm	mm	mm	mm	mm	mm	mm	kg/pce	*)
60,30 x 2,90	48,30 x 2,60	60,30	2,90	48,30	2,60	76	0,34	▪
76,10 x 2,90	33,70 x 2,60	76,10	2,90	33,70	2,60	89	0,53	▪
76,10 x 2,90	42,40 x 2,60	76,10	2,90	42,40	2,60	89	0,53	▪
76,10 x 2,90	48,30 x 2,60	76,10	2,90	48,30	2,60	89	0,50	▪
76,10 x 2,90	60,30 x 2,90	76,10	2,90	60,30	2,90	89	0,47	▪
88,90 x 3,20	33,70 x 2,60	88,90	3,20	33,70	2,60	89	0,74	▪
88,90 x 3,20	42,40 x 2,60	88,90	3,20	42,40	2,60	89	0,70	▪
88,90 x 3,20	48,30 x 2,60	88,90	3,20	48,30	2,60	89	0,68	▪
88,90 x 3,20	60,30 x 2,90	88,90	3,20	60,30	2,90	89	0,64	▪
88,90 x 3,20	76,10 x 2,90	88,90	3,20	76,10	2,90	89	0,64	▪
114,30 x 3,60	48,30 x 2,60	114,30	3,60	48,30	2,60	102	1,18	▪
114,30 x 3,60	60,30 x 2,90	114,30	3,60	60,30	2,90	102	1,10	▪
114,30 x 3,60	76,10 x 2,90	114,30	3,60	76,10	2,90	102	1,10	▪
114,30 x 3,60	88,90 x 3,20	114,30	3,60	88,90	3,20	102	1,00	▪
139,70 x 4,00	88,90 x 3,20	139,70	4,00	88,90	3,20	127	2,00	▪
139,70 x 4,00	114,30 x 3,60	139,70	4,00	114,30	3,60	127	1,80	▪
168,30 x 4,50	114,30 x 3,60	168,30	4,50	114,30	3,60	140	2,86	▪

* finishes see page 175



size	size	D	T	D1	T1	L	Duplex		highly corrosion resistant
							grade	1.4462	1.4539
							AISI/UNS	S31803	904L
mm	mm	mm	mm	mm	mm	mm	kg/pce	*)	*)
33,40 x 3,38	21,34 x 2,77	33,40	3,38	21,34	2,77	51	0,13	▪	▪
33,40 x 3,38	26,67 x 2,87	33,40	3,38	26,67	2,87	51	0,13	▪	▪
42,16 x 2,77	21,34 x 2,11	42,16	2,77	21,34	2,11	51	0,16		▪
42,16 x 2,77	26,67 x 2,11	42,16	2,77	26,67	2,11	51	0,16		▪
42,16 x 2,77	33,40 x 2,77	42,16	2,77	33,40	2,77	51	0,15		▪
42,16 x 3,56	21,34 x 2,87	42,16	3,56	21,34	2,87	51	0,19		▪
42,16 x 3,56	26,67 x 2,87	42,16	3,56	26,67	2,87	51	0,21		▪
42,16 x 3,56	33,40 x 3,38	42,16	3,56	33,40	3,38	51	0,19		▪
48,26 x 2,77	26,67 x 2,11	48,26	2,77	26,67	2,11	64	0,22	▪	▪
48,26 x 2,77	33,40 x 2,77	48,26	2,77	33,40	2,77	64	0,22	▪	▪
48,26 x 2,77	42,16 x 2,77	48,26	2,77	42,16	2,77	64	0,28	▪	▪
48,26 x 3,68	26,67 x 2,87	48,26	3,68	26,67	2,87	64	0,28	▪	▪
48,26 x 3,68	33,40 x 3,38	48,26	3,68	33,40	3,38	64	0,28	▪	▪
48,26 x 3,68	42,16 x 3,56	48,26	3,68	42,16	3,56	64	0,28	▪	▪
60,33 x 2,77	33,40 x 2,77	60,33	2,77	33,40	2,77	76	0,35		▪
60,33 x 2,77	42,16 x 2,77	60,33	2,77	42,16	2,77	76	0,32	▪	▪
60,33 x 2,77	48,26 x 2,77	60,33	2,77	48,26	2,77	76	0,32	▪	▪
60,33 x 3,91	33,40 x 3,38	60,33	3,91	33,40	3,38	76	0,48	▪	▪
60,33 x 3,91	42,16 x 3,56	60,33	3,91	42,16	3,56	76	0,45	▪	▪
60,33 x 3,91	48,26 x 3,68	60,33	3,91	48,26	3,68	76	0,45	▪	▪
73,03 x 3,05	48,26 x 2,77	73,03	3,05	48,26	2,77	89	0,52	▪	▪
73,03 x 3,05	60,33 x 2,77	73,03	3,05	60,33	2,77	89	0,50	▪	
76,10 x 4,00	60,30 x 4,00	76,10	4,00	60,30	4,00	89	0,78		▪
88,90 x 3,00	73,10 x 3,00	88,90	3,00	73,10	3,00	89	0,52	▪	▪
88,90 x 3,05	48,26 x 2,77	88,90	3,05	48,26	2,77	89	0,70	▪	▪
88,90 x 3,05	60,33 x 2,77	88,90	3,05	60,33	2,77	89	0,60	▪	▪
88,90 x 5,49	48,26 x 3,68	88,90	5,49	48,26	3,68	89	1,20	▪	▪
88,90 x 5,49	60,33 x 3,91	88,90	5,49	60,33	3,91	89	1,06	▪	▪
88,90 x 5,49	73,03 x 5,16	88,90	5,49	73,03	5,16	89	1,06	▪	▪
114,30 x 3,05	60,33 x 2,77	114,30	3,05	60,33	2,77	102	0,98	▪	▪
114,30 x 3,05	73,03 x 3,05	114,30	3,05	73,03	3,05	102	0,95	▪	▪
114,30 x 3,05	88,90 x 3,05	114,30	3,05	88,90	3,05	102	0,90	▪	▪
114,30 x 4,00	88,90 x 4,00	114,30	4,00	88,90	4,00	102	1,10		▪
114,30 x 6,02	60,33 x 3,91	114,30	6,02	60,33	3,91	102	1,90	▪	▪
114,30 x 6,02	73,03 x 5,16	114,30	6,02	73,03	5,16	102	1,85		▪
114,30 x 6,02	88,90 x 5,49	114,30	6,02	88,90	5,49	102	1,75	▪	▪
168,26 x 7,11	88,90 x 5,49	168,26	7,11	88,90	5,49	140	3,55	▪	▪
168,26 x 7,11	114,30 x 6,02	168,26	7,11	114,30	6,02	140	4,50	▪	▪
219,10 x 8,18	114,30 x 6,02	219,10	8,18	114,30	6,02	152	7,60	▪	▪
219,10 x 8,18	168,26 x 7,11	219,10	8,18	168,26	7,11	152	6,80	▪	▪

* finishes see page 175



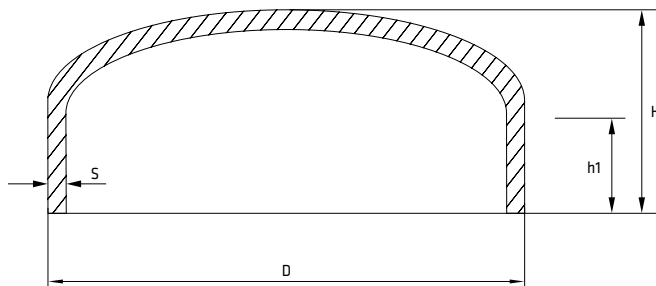
size mm	size mm	D mm	T mm	D1 mm	T1 mm	L mm	stainless		
							grade	1.4541	1.4571
							AISI	321	316Ti
							kg/pce	*)	*)
21,3 x 2,0	17,2 x 1,8	21,3	2,0	17,2	1,8	38	0,05		▪
26,9 x 1,6	17,2 x 1,6	26,9	1,6	17,2	1,6	38	0,05	▪	▪
26,9 x 1,6	21,3 x 1,6	26,9	1,6	21,3	1,6	38	0,04	▪	▪
26,9 x 2,0	21,3 x 2,0	26,9	2,0	21,3	2,0	38	0,06		▪
33,7 x 2,0	17,2 x 1,6	33,7	2,0	17,2	1,6	51	0,10	▪	▪
33,7 x 2,0	21,3 x 1,6	33,7	2,0	21,3	1,6	51	0,08	▪	▪
33,7 x 2,0	21,3 x 2,0	33,7	2,0	21,3	2,0	51	0,10		▪
33,7 x 2,0	26,9 x 1,6	33,7	2,0	26,9	1,6	51	0,08		▪
33,7 x 2,0	26,9 x 2,0	33,7	2,0	26,9	2,0	51	0,07	▪	▪
33,7 x 2,6	21,3 x 2,0	33,7	2,6	21,3	2,0	51	0,10		▪
42,4 x 2,0	21,3 x 1,6	42,4	2,0	21,3	1,6	51	0,12	▪	▪
42,4 x 2,0	26,9 x 1,6	42,4	2,0	26,9	1,6	51	0,12	▪	▪
42,4 x 2,0	33,7 x 2,0	42,4	2,0	33,7	2,0	51	0,12	▪	▪
42,4 x 3,6	33,7 x 3,6	42,4	3,6	33,7	3,6	51	0,19		▪
48,3 x 2,0	21,3 x 1,6	48,3	2,0	21,3	1,6	64	0,17	▪	▪
48,3 x 2,0	21,3 x 2,0	48,3	2,0	21,3	2,0	64	0,17		▪
48,3 x 2,0	26,9 x 1,6	48,3	2,0	26,9	1,6	64	0,17	▪	▪
48,3 x 2,0	26,9 x 2,0	48,3	2,0	26,9	2,0	64	0,17	▪	▪
48,3 x 2,0	33,7 x 2,0	48,3	2,0	33,7	2,0	64	0,16	▪	▪
48,3 x 2,0	42,4 x 2,0	48,3	2,0	42,4	2,0	64	0,16	▪	▪
48,3 x 2,6	26,9 x 2,0	48,3	2,6	26,9	2,0	64	0,17		▪
48,3 x 2,6	33,7 x 2,6	48,3	2,6	33,7	2,6	64	0,21		▪
60,3 x 2,0	21,3 x 1,6	60,3	2,0	21,3	1,6	76	0,29	▪	▪
60,3 x 2,0	21,3 x 2,0	60,3	2,0	21,3	2,0	76	0,30		▪
60,3 x 2,0	26,9 x 1,6	60,3	2,0	26,9	1,6	76	0,20	▪	▪
60,3 x 2,0	26,9 x 2,0	60,3	2,0	26,9	2,0	76	0,23	▪	
60,3 x 2,0	33,7 x 2,0	60,3	2,0	33,7	2,0	76	0,25	▪	▪
60,3 x 2,0	42,4 x 2,0	60,3	2,0	42,4	2,0	76	0,23	▪	▪
60,3 x 2,0	48,3 x 2,0	60,3	2,0	48,3	2,0	76	0,23	▪	▪

* finishes see page 175

Reducer concentric | welded | EN 10253-4

size	size	D	T	D1	T1	L	stainless		
							grade	1.4541	1.4571
							AISI	321	316Ti
mm	mm	mm	mm	mm	mm	mm	kg/pce	*)	*)
60,3 x 2,6	33,7 x 2,6	60,3	2,6	33,7	2,6	76	0,24		▪
76,1 x 2,3	33,7 x 2,0	76,1	2,3	33,7	2,0	89	0,42	▪	▪
76,1 x 2,3	42,4 x 2,0	76,1	2,3	42,4	2,0	89	0,42	▪	▪
76,1 x 2,3	48,3 x 2,0	76,1	2,3	48,3	2,0	89	0,40	▪	▪
76,1 x 2,3	60,3 x 2,0	76,1	2,3	60,3	2,0	89	0,39	▪	▪
88,9 x 2,3	33,7 x 2,0	88,9	2,3	33,7	2,0	89	0,45	▪	▪
88,9 x 2,3	42,4 x 2,0	88,9	2,3	42,4	2,0	89	0,50	▪	▪
88,9 x 2,3	48,3 x 2,0	88,9	2,3	48,3	2,0	89	0,49	▪	▪
88,9 x 2,3	60,3 x 2,0	88,9	2,3	60,3	2,0	89	0,46	▪	▪
88,9 x 2,3	76,1 x 2,3	88,9	2,3	76,1	2,3	89	0,46	▪	▪
114,3 x 2,6	33,7 x 2,0	114,3	2,6	33,7	2,0	102	0,85	▪	▪
114,3 x 2,6	42,4 x 2,0	114,3	2,6	42,4	2,0	102	0,85	▪	
114,3 x 2,6	48,3 x 2,0	114,3	2,6	48,3	2,0	102	0,85	▪	▪
114,3 x 2,6	60,3 x 2,0	114,3	2,6	60,3	2,0	102	0,80	▪	▪
114,3 x 2,6	76,1 x 2,3	114,3	2,6	76,1	2,3	102	0,78	▪	▪
114,3 x 2,6	88,9 x 2,3	114,3	2,6	88,9	2,3	102	0,72	▪	▪
114,3 x 2,6	88,9 x 2,6	114,3	2,6	88,9	2,6	102	0,82		▪
114,3 x 3,6	88,9 x 3,2	114,3	3,6	88,9	3,2	102	1,00		▪
139,7 x 2,6	60,3 x 2,0	139,7	2,6	60,3	2,0	127	1,40	▪	▪
139,7 x 2,6	76,1 x 2,3	139,7	2,6	76,1	2,3	127	1,40	▪	▪
139,7 x 2,6	88,9 x 2,3	139,7	2,6	88,9	2,3	127	1,35	▪	▪
139,7 x 2,6	114,3 x 2,6	139,7	2,6	114,3	2,6	127	1,30	▪	▪
139,7 x 2,9	88,9 x 2,3	139,7	2,9	88,9	2,3	127	1,50	▪	
139,7 x 2,9	114,3 x 2,6	139,7	2,9	114,3	2,6	127	1,40	▪	
168,3 x 2,6	60,3 x 2,0	168,3	2,6	60,3	2,0	140	1,90	▪	▪
168,3 x 2,6	76,1 x 2,3	168,3	2,6	76,1	2,3	140	1,80	▪	▪
168,3 x 2,6	88,9 x 2,3	168,3	2,6	88,9	2,3	140	1,75	▪	▪
168,3 x 2,6	114,3 x 2,6	168,3	2,6	114,3	2,6	140	1,70	▪	▪
168,3 x 2,6	139,7 x 2,6	168,3	2,6	139,7	2,6	140	1,70	▪	▪
219,1 x 2,9	114,3 x 2,6	219,1	2,9	114,3	2,6	152	2,25		▪
219,1 x 2,9	139,7 x 2,6	219,1	2,9	139,7	2,6	152	2,35		▪
219,1 x 2,9	168,3 x 2,6	219,1	2,9	168,3	2,6	152	2,25		▪
273,0 x 3,0	168,3 x 3,0	273,0	3,0	168,3	3,0	178	3,80		▪
273,0 x 3,0	219,1 x 3,0	273,0	3,0	219,1	3,0	178	3,60		▪
323,9 x 3,0	219,1 x 3,0	323,9	3,0	219,1	3,0	203	5,50		▪
323,9 x 3,0	273,0 x 3,0	323,9	3,0	273,0	3,0	203	5,00		▪

* finishes see page 175



outside-Ø	wall thickness	D	S	H	h1	stainless	
						grade	1.4571
						AISI	316Ti
						kg/pce	*)
21,3	2,0	21,3	2,0	15	10	0,02	▪
26,9	2,0	26,9	2,0	17	11	0,02	▪
33,7	2,0	33,7	2,0	18	10	0,04	▪
42,4	2,0	42,4	2,0	20	11	0,05	▪
48,3	2,0	48,3	2,0	20	10	0,06	▪
60,3	2,0	60,3	2,0	25	12	0,09	▪
76,1	2,5	76,1	2,5	27	11	0,17	▪
88,9	3,0	88,9	3,0	39	20	0,31	▪
114,3	3,0	114,3	3,0	44	20	0,48	▪
139,7	3,0	139,7	3,0	49	20	0,67	▪
168,3	3,0	168,3	3,0	54	20	0,90	▪
219,1	3,0	219,1	3,0	64	20	1,48	▪
273,0	3,0	273,0	3,0	74	20	2,24	▪
323,9	3,0	323,9	3,0	84	20	3,09	▪
406,4	4,0	406,4	4,0	86	41	6,50	▪
508,0	4,0	508,0	4,0	157	51	9,80	▪

* finishes see page 175



SERVICE

grinding | sawing | re-stamping |
special inspections | chamfering

193 - 197



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Our services include the areas:

Cutting

- Cut ready for assembly
- Mitre cuts and double-mitre cuts from 30° to 150°
- Bundle cuts
- Fix lengths
- Coplanar cuts
- Precision cuttings with tight tolerances

Processing

- DIN 2559 and DIN EN ISO 9692-1 or ANSI B 16.25 welded joint preparation on seamless and welded round pipes and tubes
- Conic Whitworth thread for 1/2" up to 2" male threads
- Adapted wall thicknesses to seamless and welded round tubes, flanges, concentric reducers, caps and welding collars

Refinement

- Grinding, polishing, mirror polishing, brushing. From matt- to mirror-finished. On flat and circular grinding machines.
- Glass bead blasting

Testing

- Incoming goods inspection
- US testing of the wall thickness
- Spectrometer tests
- Ferrite testing
- Certifications
- Special inspections
- TÜV authorisation for re-stamping

Packing

- In wooden boxes and crates
- Seamless and welded round pipes and tubes with plastic caps
- In foil or bubble wrap foil
- Customer-specific markings and labelling
- Refined surfaces covered with laser film

International grade comparison

Grade	DIN/DIN EN	AISI ¹⁾	UNS ²⁾	SS ³⁾	AFNOR ⁴⁾	BS ⁵⁾
1.4005	X12 CrS 13	416	S 41600	2380	Z 11 CF 13	416 S 21
1.4006	X12 Cr 13	410	S 41000	2302	Z 10 C 13	410 S 21
1.4016	X6 Cr 17	430	S 43000	2320	Z 8 C 17	430 S 15
1.4021	X20 Cr 13	420	S 42000	2303	Z 20 C 13	420 S 37
1.4028	X30 Cr 13	420 F	S 42020	2304	Z 30 C 13	420 S 45
1.4034	X46 Cr 13			2304	Z 40 C 14	420 S 45
1.4057	X17 CrNi 16-2	431	S 43100	2321	Z 15 CN 16.02	431 S 29
1.4104	X14 CrMoS 17	430 F	S 43020	2383	Z 13 CF 17	441 S 29
1.4112	X90 CrMoV 18	440 B	S 44003			
1.4122	X39 CrMo 17-1					
1.4125	X105 CrMo 17	440 C	S 44004		Z 100 CD 17 CI	
1.4301	X5 CrNi 18-10	304	S 30400	2332	Z 6 CN 18.09	304 S 15
1.4305	X8 CrNiS 18-9	303	S 30300	2346	Z 8 CNF 18.09	303 S 31
1.4306	X2 CrNi 19-11	304 L	S 30403	2352	Z 2 CN 18.10	304 S 11
1.4307	X2 CrNi 18-9	304 L		2352	Z 3 CN 18.10	304 S 11
1.4310	X10 CrNi 18-8	301	S 30100	2331	Z 12 CN 18.08	301 S 22
1.4313	X3 CrNiMo 13-4	CA 6-NM		2384	Z 4 CND 13.04 M	425 C 11
1.4401	X5 CrNiMo 17-12-2	316	S 31600	2347	Z 7 CND 17.12.02	316 S 31
1.4404	X2 CrNiMo 17-12-2	316 L	S 31603	2348	Z 3 CND 18.12.02	316 S 11
1.4410	X2 CrNiMoN 25-7-4	F 53	S 32750	2328	Z 3 CND 25.07.AZ	
1.4418	X4 CrNiMo 16-5-1			2387	Z 6 CND 16.05.01	
1.4432	X2 CrNiMo 17-12-3	316 L		2353	Z 3 CND 17.12.03	316 S 13
1.4435	X2 CrNiMo 18-14-3	316 L	S 31603	2353	Z 3 CND 18.14.03	316 S 11
1.4436	X3 CrNiMo 17-13-3	316	S 31600	2343	Z 7 CND 18.12.03	316 S 31
1.4438	X2 CrNiMo 18-15-4	317 L	S 31703	2367	Z 3 CND 19.15.04	317 S 12

Grade	DIN/DIN EN	AISI ¹⁾	UNS ²⁾	SS ³⁾	AFNOR ⁴⁾	BS ⁵⁾
1.4439	X2 CrNiMoN 17-13-5	317 LMN				
1.4449	X3 CrNiMo 18-12-3	317	S 31700			317 S 16
1.4460	X3 CrNiMoN 27-5-2	329	S 32900	2324	Z 5 CND 27.05.AZ	
1.4462	X2 CrNiMoN 22-5-3	F 51	S 31803	2377	Z 5 CNDU 21.08	
1.4501	X2 CrNiMoCuWN 25-7-4	F 55	S 32760			
1.4529	X1 NiCrMoCuN 25-20-7		N 08926			
1.4539	X1 NiCrMoCu 25-20-5	904 L	N 08904	2562	Z 1 NCDU 25.20	
1.4541	X6 CrNiTi 18-10	321	S 32100	2337	Z 6 CNT 18.10	321 S 31
1.4542	X5 CrNiCuNb 16-4	630	S 17400		Z 7 CNU 15.05	
1.4550	X6 CrNiNb 18-10	347	S 34700	2338	Z 6 CNNb 18.10	347 S 31
1.4563	X1 NiCrMoCu 31-27-4		N 08028	2584	Z 2 NCDU 31.27	
1.4571	X6 CrNiMoTi 17-12-2	316 Ti	S 31635	2350	Z 6 CNDT 17.12	320 S 31
1.4713	X10 CrAlSi 7				Z 8 CA 7	
1.4724	X10 CrAlSi 13				Z 10 C 13	
1.4742	X10 CrAlSi 18				Z 10 CAS 18	
1.4749	X18 CrN 28	446-1	S 44600	2322		
1.4762	X10 CrAlSi 25	446	S 44600	2320	Z 10 CAS 24	
1.4821	X15 CrNiSi 25-4				Z 20 CNS 25.04	
1.4828	X15 CrNiSi 20-12	309	S 30900		Z 15 CNS 20.10	309 S 24
1.4841	X15 CrNiSi 25-21	314	S 31400		Z 15 CNS 25.20	314 S 25
1.4845	X8 CrNi 25-21	310 S	S 31008	2361	Z 12 CN 25.20	310 S 24
1.4864	X12 NiCrSi 35-16	330	N 08303		Z 12 NCS 35.16	3076 NA 17
1.4876	X10 NiCrAlTi 32-21	B 163	N 08800		Z 8 NC 32.21	3076 NA a5 H
1.4878	X8 CrNiTi 18-10	321H	S 32109	2337	Z 6 CNT 18.12	321 S 51
1.4923	X22 CrMoV 12-1					

The German grades and their (international) counterparts meet different standards, so that some of them cannot be compared to each other. The interchangeability of the compared grades has to be decided individually.

- ¹⁾ AISI = American Iron and Steel Institute
ASME = American Society for Mechanical Engineers
²⁾ UNS = Unified Numbering Systems

- ³⁾ SS = Swedish Standard
⁴⁾ AFNOR = Association Française de Normalisation
⁵⁾ BS = British Standard

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