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TUBE SOLUTIONS

**Stocklist – ASTM Pipes**  
Vorratsliste – ASTM Rohre

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**ASTM Pipes**  
ASTM Rohre

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**Stocklist Contains Pipes in the Following Grades**  
Vorratsliste enthält Rohre in folgenden Qualitäten

**Seamless steel pipes to ASTM A 106 / ASME SA 106, Grade B, certs to EN 10204/3.1, in single or double random lengths**

Nahtlose Stahlrohre nach ASTM A 106 / ASME SA 106, Grade B, mit APZ nach EN 10204/3.1, in normalen oder doppelten Herstellungslängen

**Seamless steel pipes to ASTM A 333 / ASTM A 530, Grade 6, certs to EN 10204/3.1, in single or double random lengths**

Nahtlose Stahlrohre nach ASTM A 333 / ASTM A 530, Grade 6, mit APZ nach EN 10204/3.1, in normalen oder doppelten Herstellungslängen

**Seamless steel pipes to ASTM A 106 / ASME SA 106, Grade C, certs to EN 10204/3.1, in single or double random lengths**

Nahtlose Stahlrohre nach ASTM A 106 / ASME SA 106, Grade C, mit APZ nach EN 10204/3.1, in normalen oder doppelten Herstellungslängen

**Seamless steel pipes to ASTM A 335 / ASME SA 335, Grade P1, certs to EN 10204/3.1, in single or double random lengths**

Nahtlose Stahlrohre nach ASTM A 335 / ASME SA 335, Grade P1, mit APZ nach EN 10204/3.1, in normalen oder doppelten Herstellungslängen

**Seamless steel pipes to ASTM A 335 / ASME SA 335, Grade P5, certs to EN 10204/3.1, in single or double random lengths**

Nahtlose Stahlrohre nach ASTM A 335 / ASME SA 335, Grade P5, mit APZ nach EN 10204/3.1, in normalen oder doppelten Herstellungslängen

**Seamless steel pipes to ASTM A 335 / ASME SA 335, Grade P9, certs to EN 10204/3.1, in single or double random lengths**

Nahtlose Stahlrohre nach ASTM A 335 / ASME SA 335, Grade P9, mit APZ nach EN 10204/3.1, in normalen oder doppelten Herstellungslängen

**Seamless steel pipes to ASTM A 335 / ASME SA 335, Grade P11, certs to EN 10204/3.1, in single or double random lengths**

Nahtlose Stahlrohre nach ASTM A 335 / ASME SA 335, Grade P11, mit APZ nach EN 10204/3.1, in normalen oder doppelten Herstellungslängen

**Seamless steel pipes to ASTM A 335 / ASME SA 335, Grade P12, certs to EN 10204/3.1, in single or double random lengths**

Nahtlose Stahlrohre nach ASTM A 335 / ASME SA 335, Grade P12, mit APZ nach EN 10204/3.1, in normalen oder doppelten Herstellungslängen

**Seamless steel pipes to ASTM A 335 / ASME SA 335, Grade P22, certs to EN 10204/3.1, in single or double random lengths**

Nahtlose Stahlrohre nach ASTM A 335 / ASME SA 335, Grade P22, mit APZ nach EN 10204/3.1, in normalen oder doppelten Herstellungslängen

**Seamless steel pipes to ASTM A 335 / ASME SA 335, Grade P91, certs to EN 10204/3.1, in single or double random length**

Nahtlose Stahlrohre nach ASTM A 335 / ASME SA 335, Grade P91, mit APZ nach EN 10204/3.1, in normalen oder doppelten Herstellungslängen

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**ASTM Pipes**  
ASTM Rohre

# ASTM Pipes

## ASTM Rohre

Nominal Pipe Size Nennweite		Size Abmessung mm	Remarks Bemerkungen	kilos/m kg/m	SA/A 106 Gr. B	SA/A 333 Gr. 6	SA/A 106 Gr. C	SA/A 335 Gr. P1	SA/A 335 Gr. P5	SA/A 335 Gr. P9	SA/A 335 Gr. P11	SA/A 335 Gr. P12	SA/A 335 Gr. P22	SA/A 335 Gr. P91
1/4"	SCH 80/XS	13,7 x 3,0		0,80	●									
3/8"	SCH 40/STD.	17,1 x 2,3		0,84	●									
	SCH 80/XS	17,1 x 3,2		1,10	●									
1/2"	SCH 40/STD.	21,3 x 2,8		1,26	●	●	●				●		●	
	SCH 80/XS	21,3 x 3,7		1,62	●	●	●		●		●		●	
	SCH 160	21,3 x 4,8		1,95	●	●	●		●		●		●	
	XXS	21,3 x 7,5		2,55	●	●					●		●	
3/4"	SCH 40/STD.	26,7 x 2,9		1,68	●	●	●		●		●		●	
	SCH 80/XS	26,7 x 3,9		2,19	●	●			●		●		●	
		26,7 x 5,0		2,70			●							
	SCH 160	26,7 x 5,6		2,88	●	●			●		●		●	●
	XXS	26,7 x 7,8		3,63	●	●			●		●		●	
1"	SCH 40/STD.	33,4 x 3,4		2,50	●	●	●		●		●	●	●	
	SCH 80/XS	33,4 x 4,5		3,23	●	●	●		●		●	●	●	
		33,4 x 5,0		3,54	●									
	SCH 160	33,4 x 6,4		4,23	●	●	●		●		●		●	●
	XXS	33,4 x 9,1		5,45	●	●			●		●		●	
		38,0 x 3,6	X = A 213 Gr. T91	3,40										X
		38,0 x 4,0		3,72										●
		38,0 x 6,3		4,93										●
1 1/4"	SCH 40/STD.	42,4 x 3,6		3,38	●	●					●		●	
	SCH 80/XS	42,4 x 4,9		4,46	●	●			●		●		●	
	SCH 160	42,4 x 6,4		5,60	●	●			●		●		●	
	XXS	42,4 x 9,7		7,75	●	●					●		●	
1 1/2"	SCH 40/STD.	48,3 x 3,7		4,05	●	●	●		●		●	●	●	
		48,3 x 4,5		4,86		●								
	SCH 80/XS	48,3 x 5,1		5,40	●	●	●		●		●	●	●	●
	SCH 160	48,3 x 7,1		7,23	●	●			●		●	●	●	
		48,3 x 9,5		9,09		●								
	XXS	48,3 x 10,2		9,54	●	●			●		●		●	
		50,8 x 6,6	X = A 213 Gr. T22	8,09										X
		57,0 x 6,3		7,88		●								
	57,0 x 8,0		9,67	●										

# ASTM Pipes

## ASTM Rohre

Nominal Pipe Size Nennweite	Size Abmessung mm	Remarks Bemerkungen	kilos/m kg/m	SA/A 106 Gr. B	SA/A 333 Gr. 6	SA/A 106 Gr. C	SA/A 335 Gr. P1	SA/A 335 Gr. P5	SA/A 335 Gr. P9	SA/A 335 Gr. P11	SA/A 335 Gr. P12	SA/A 335 Gr. P22	SA/A 335 Gr. P91
2"	SCH 40/STD.	60,3 x 3,9	5,43	●	●	●		●		●		●	●
	SCH 80/XS	60,3 x 5,5	7,47	●	●			●	●	●	●	●	●
	SCH 160	60,3 x 8,7	11,10	●	●			●		●		●	
	XXS	60,3 x 11,1	13,40	●	●			●		●		●	
		63,5 x 5,3	X = A 213 Gr. T22	8,56									X
		70,0 x 6,3		9,90		●							
		70,0 x 8,8		13,30		●							
		70,0 x 10,0		14,80	●			●					
2 1/2"	SCH 40/STD.	73,0 x 5,2	8,62	●	●			●		●		●	
	SCH 80/XS	73,0 x 7,0	11,40	●	●			●	●	●		●	
	SCH 160	73,0 x 9,5	14,90	●	●			●		●		●	
	XXS	73,0 x 14,0	20,40	●						●		●	
		82,5 x 4,0		7,74		●							
		82,5 x 7,1		13,20	●	●							
		82,5 x 8,8		16,00		●							
		82,5 x 10,0		17,90	●								
3"		88,9 x 5,0	10,30				●						
	SCH 40/STD.	88,9 x 5,5	11,30	●	●	●	●	●	●	●		●	●
		88,9 x 6,3	12,90				●						
		88,9 x 6,4	12,90	●	●								
	SCH 80/XS	88,9 x 7,6	15,30	●	●			●	●	●		●	
		88,9 x 8,8	17,40	●									
		88,9 x 10,0	19,50	●	●								
	SCH 160	88,9 x 11,1	21,30	●	●			●		●		●	●
		88,9 x 14,2	26,20		●								
	XXS	88,9 x 15,2	27,70	●	●			●		●		●	
		88,9 x 17,5	30,80	●									
		88,9 x 20,0	34,00									●	
		88,9 x 25,0	39,40				●						
	3 1/2"	SCH 40/STD.	101,6 x 5,7	13,60	●	●					●		●
		101,6 x 7,1	X = A 209 Gr. T1	16,60			X						
SCH 80/XS		101,6 x 8,1	18,60	●	●			●	●	●		●	
		101,6 x 11,0	24,60							●			
		101,6 x 12,5	27,50				●						
		101,6 x 22,2	43,50									●	

# ASTM Pipes

## ASTM Rohre

Nominal Pipe Size Nennweite	Size Abmessung mm	Remarks Bemerkungen	kilos/m kg/m	SA/A 106 Gr. B	SA/A 333 Gr. 6	SA/A 106 Gr. C	SA/A 335 Gr. P1	SA/A 335 Gr. P5	SA/A 335 Gr. P9	SA/A 335 Gr. P11	SA/A 335 Gr. P12	SA/A 335 Gr. P22	SA/A 335 Gr. P91
4"	SCH 40/STD.	114,3 x 6,0	16,10	●	●	●		●	●	●		●	●
	SCH 80/XS	114,3 x 8,6	22,30	●	●			●	●	●		●	
	SCH 120	114,3 x 11,1	28,30	●	●			●		●		●	
	SCH 160	114,3 x 13,5	33,50	●	●			●		●		●	●
		114,3 x 15,0	36,73			●							
		114,3 x 16,0	38,80									●	
	XXS	114,3 x 17,1	41,00	●	●		●			●		●	●
		127,0 x 8,0	23,50		●								
		127,0 x 10,0	28,90						●				
		127,0 x 11,0	31,50		●								
		127,0 x 12,5	35,30	●	●								
		127,0 x 30,0	71,80				●						
		139,7 x 7,1	23,20		●							●	
		139,7 x 14,2	43,90		●								
		139,7 x 22,2	64,30				●						
5"	SCH 40/STD.	141,3 x 6,6	21,80	●	●			●	●	●		●	
	SCH 80/XS	141,3 x 9,5	30,90	●	●			●	●	●	●	●	
		141,3 x 11,1	35,64	●									
	SCH 120	141,3 x 12,7	40,20	●	●			●	●	●		●	
	SCH 160	141,3 x 15,9	49,10	●	●					●		●	
	XXS	141,3 x 19,0	57,40	●	●	●				●		●	
		152,4 x 6,4	22,90					●					
		152,4 x 8,0	28,49							●			
		152,4 x 10,0	35,10					●					
		159,0 x 10,0	36,70		●								
6"		168,3 x 6,4	25,30	●	●								
	SCH 40/STD.	168,3 x 7,1	28,20	●	●			●	●	●	●	●	
		168,3 x 8,0	35,60	●	●			X					
	SCH 80/XS	168,3 x 11,0	42,50	●	●			●	●	●	●	●	●
		168,3 x 12,7	48,00								●		
	SCH 120	168,3 x 14,3	54,20	●	●	●			●	●		●	●
	SCH 160	168,3 x 18,3	67,50	●	●			●		●		●	●
	XXS	168,3 x 21,9	79,10	●	●	●		●		●	●	●	
		168,3 x 25,4	89,51	●		●				●		●	
		168,3 x 28,6	98,53	●		●						●	
		168,3 x 30,0	102,00							●		●	
		168,3 x 33,4	111,10								●		
		168,3 x 34,0	112,60									●	
		168,3 x 36,0	114,80									●	

# ASTM Pipes

## ASTM Rohre

Nominal Pipe Size Nennweite	Size Abmessung mm	Remarks Bemerkungen	kilos/m kg/m	SA/A 106 Gr. B	SA/A 333 Gr. 6	SA/A 106 Gr. C	SA/A 335 Gr. P1	SA/A 335 Gr. P5	SA/A 335 Gr. P9	SA/A 335 Gr. P11	SA/A 335 Gr. P12	SA/A 335 Gr. P22	SA/A 335 Gr. P91	
6"	168,3 x 45,0		136,80										●	
8"	SCH 20	219,1 x 6,4	33,30	●	●									
	SCH 30	219,1 x 7,0	36,80	●	●				●	●				
	SCH 40/STD.	219,1 x 8,2	42,50	●	●	●		●	●	●		●	●	
	SCH 60	219,1 x 10,3	53,00	●	●			●	●	●			●	
		219,1 x 11,0	56,50	●										
	SCH 80/XS	219,1 x 12,7	64,70	●	●	●		●	●	●	●	●	●	
	SCH 100	219,1 x 15,1	75,80	●	●			●	●	●		●	●	
	SCH 120	219,1 x 18,3	90,30	●	●				●	●	●	●	●	
	SCH 140	219,1 x 20,6	101,00	●	●			●		●		●	●	
	XXS	219,1 x 22,2	108,00		●					●				
	SCH 160	219,1 x 23,0	111,00	●	●			●	●	●			●	●
		219,1 x 25,4	120,00	●	●	●				●			●	
		219,1 x 28,6	134,36	●						●			●	
		219,1 x 31,8	146,70										●	
		219,1 x 32,0	148,00	●							●			●
		219,1 x 36,0	162,55										●	●
		219,1 x 36,3	163,60								●			
		219,1 x 38,1	170,10										●	
		219,1 x 40,0	177,00								●		●	●
		219,1 x 45,0	193,00				●				●		●	
	244,5 x 8,8	51,20		●										
	244,5 x 10,0	57,80		●										
	244,5 x 14,2	80,60	●	●										
	244,5 x 36,0		185,00										●	
10"	SCH 20	273,0 x 6,4	41,70	●	●									
	SCH 30	273,0 x 7,8	51,00	●	●					●				
	SCH 40/STD.	273,0 x 9,3	60,20	●	●			●	●	●			●	
		273,0 x 11,1	71,90	●	●									
	SCH 60/XS	273,0 x 12,7	81,50	●	●			●	●	●		●		
	SCH 80	273,0 x 15,1	95,90	●	●			●		●		●		
	SCH 100	273,0 x 18,3	115,00	●	●					●		●	●	
	SCH 120	273,0 x 21,4	133,00	●	●					●		●		
	SCH 140	273,0 x 25,4	155,00	●	●					●			●	●
		273,0 x 27,0	164,00	●										
	SCH 160	273,0 x 28,6	172,00	●	●				●	●	●	●	●	
		273,0 x 31,8	189,16									●		
		273,0 x 36,0	210,00										●	●
		273,0 x 40,0	230,00	●	●								●	
		273,0 x 45,0	253,03	●							●			
		273,0 x 63,5	328,06									●		

# ASTM Pipes

## ASTM Rohre

Nominal Pipe Size Nennweite	Size Abmessung mm	Remarks Bemerkungen	kilos/m kg/m	SA/A 106 Gr. B	SA/A 333 Gr. 6	SA/A 106 Gr. C	SA/A 335 Gr. P1	SA/A 335 Gr. P5	SA/A 335 Gr. P9	SA/A 335 Gr. P11	SA/A 335 Gr. P12	SA/A 335 Gr. P22	SA/A 335 Gr. P91
10"	310,0 x 25,0		175,70										●
12"	323,8 x 7,1		55,47					●					
	SCH 30 323,8 x 8,4		65,10	●	●					●			
	STD. 323,8 x 9,5		73,80	●	●				●	●		●	
	SCH 40 323,8 x 10,3		79,70	●	●			●	●	●	●		
	323,8 x 11,0		84,90		●			●					
	XS 323,8 x 12,7		97,40	●	●			●	●	●		●	
	SCH 60 323,8 x 14,3		109,00	●	●				●	●		●	
	SCH 80 323,8 x 17,5		132,00	●	●			●	●	●		●	
	323,8 x 20,0		150,00		●								
	SCH 100 323,8 x 21,4		160,00	●	●					●		●	●
	SCH 120/XXS 323,8 x 25,4		187,00	●	●					●	●	●	●
	SCH 140 323,8 x 28,6		208,00	●	●					●		●	
	SCH 160 323,8 x 33,3		239,00	●	●	●				●		●	
	323,8 x 36,0		256,00	●	●							●	
	323,8 x 40,0		280,00	●								●	
	323,8 x 45,0		315,00									●	
	323,8 x 50,8		342,00	●								●	
	323,8 x 55,0		365,00									●	
	323,8 x 60,0		390,00	●									
	349,0 x 29,0		228,90										●
14"	SCH 20 355,6 x 7,9		67,90	●									
	SCH 30/STD. 355,6 x 9,5		81,20	●	●					●			
	SCH 40 355,6 x 11,1		94,40	●	●			●		●		●	
	XS 355,6 x 12,7		107,00	●	●			●		●		●	
	SCH 60 355,6 x 15,1		127,00	●	●			●		●		●	
	SCH 80 355,6 x 19,0		158,00	●	●					●		●	●
	SCH 100 355,6 x 23,8		195,00	●	●					●		●	
	SCH 120 355,6 x 27,8		224,00	●	●					●		●	●
	SCH 140 355,6 x 31,8		253,00	●	●				●	●		●	●
	SCH 160 355,6 x 35,7		281,00	●	●					●		●	●
	355,6 x 40,0		315,50									●	
	355,6 x 45,0		345,00							●		●	
	355,6 x 50,0		377,00	●									
	355,6 x 50,8		382,00							●			
	355,6 x 65,0		466,00	●									
	368,0 x 12,5		110,00	●									
	375,0 x 40,0		330,50	●									

# ASTM Pipes

## ASTM Rohre

Nominal Pipe Size Nennweite	Size Abmessung mm	Remarks Bemerkungen	kilos/m kg/m	SA/A 106 Gr. B	SA/A 333 Gr. 6	SA/A 106 Gr. C	SA/A 335 Gr. P1	SA/A 335 Gr. P5	SA/A 335 Gr. P9	SA/A 335 Gr. P11	SA/A 335 Gr. P12	SA/A 335 Gr. P22	SA/A 335 Gr. P91
14"	396,0 x 31,0		279,00										●
	398,0 x 28,0		255,50										●
16"	SCH 20	406,4 x 7,9	77,90	●									
	SCH 30/STD.	406,4 x 9,5	93,10	●	●	●		●		●		●	
	SCH 40/XS	406,4 x 12,7	123,00	●	●	●		●		●		●	●
	SCH 60	406,4 x 16,7	160,00	●	●	●		●		●		●	
	SCH 80	406,4 x 21,4	203,00	●	●					●		●	
	SCH 100	406,4 x 26,2	245,00	●	●					●		●	
	SCH 120	406,4 x 31,0	286,00	●	●					●		●	
	SCH 140	406,4 x 36,5	333,00	●	●					●		●	
	SCH 160	406,4 x 40,5	365,00	●	●					●		●	
		406,4 x 56,0	483,91								●		
	419,0 x 48,0	439,30	●										
18"	STD.	457,2 x 9,5	105,10	●	●					●		●	
	SCH 30	457,2 x 11,1	122,00		●					●			
	XS	457,2 x 12,7	139,00	●	●					●		●	
	SCH 40	457,2 x 14,3	156,00	●	●			●		●		●	
		457,2 x 17,5	190,00								●		
	SCH 60	457,2 x 19,0	206,00	●	●			●		●		●	
	SCH 80	457,2 x 23,8	254,00	●	●					●		●	
	SCH 100	457,2 x 29,4	309,00	●	●					●		●	●
	SCH 120	457,2 x 34,9	363,00	●	●					●		●	
	SCH 140	457,2 x 39,7	408,00	●	●					●		●	
SCH 160	457,2 x 45,2	459,00	●	●					●		●		
	457,2 x 50,8	509,40										●	
	470,0 x 45,0	472,00										●	
20"	STD.	508,0 x 9,5	117,10	●	●					●		●	
	SCH 30/XS	508,0 x 12,7	155,00	●	●					●		●	●
	SCH 40	508,0 x 15,1	183,00	●	●	●		●		●		●	●
	SCH 60	508,0 x 20,6	248,00	●	●	●		●		●	●	●	
	SCH 80	508,0 x 26,2	311,00	●	●					●		●	
	SCH 100	508,0 x 32,5	381,00	●	●					●		●	●
	SCH 120	508,0 x 38,1	441,00	●	●					●		●	
	SCH 140	508,0 x 44,5	508,00	●						●		●	
	SCH 160	508,0 x 50,0	564,00	●						●		●	
		508,0 x 54,0	606,60	●									
	508,0 x 55,0	614,00								●			

# ASTM Pipes

## ASTM Rohre

Nominal Pipe Size Nennweite	Size Abmessung mm	Remarks Bemerkungen	kilos/m kg/m	SA/A 106 Gr. B	SA/A 333 Gr. 6	SA/A 106 Gr. C	SA/A 335 Gr. P1	SA/A 335 Gr. P5	SA/A 335 Gr. P9	SA/A 335 Gr. P11	SA/A 335 Gr. P12	SA/A 335 Gr. P22	SA/A 335 Gr. P91	
20"	545,0 x 28,0		357,00									●		
22"	STD.	558,8 x 9,5	129,00	●	●					●				
	SCH 30/XS	558,8 x 12,7	171,00	●						●				
	SCH 80	558,8 x 28,6	373,80							●		●		
	SCH 100	558,8 x 34,9	451,50							●				
24"	STD.	609,6 x 9,5	141,00	●	●					●		●	●	
	XS	609,6 x 12,7	187,00	●	●					●		●		
	SCH 30	609,6 x 14,3	211,00	●						●		●		
	SCH 40	609,6 x 17,5	255,00	●	●					●	●	●	●	
	SCH 60	609,6 x 24,6	355,00	●	●			●		●		●	●	
		609,6 x 25,4	362,00											●
	SCH 80	609,6 x 31,0	441,00	●						●		●		
	SCH 100	609,6 x 38,9	547,00	●						●		●		
	SCH 120	609,6 x 46,0	639,00	●						●		●		
	SCH 140	609,6 x 52,4	719,00	●						●		●		
	SCH 160	609,6 x 59,5	807,00	●						●		●		
		762,0 x 22,2		405,00										●





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**Technical Data**  
Technische Daten

## Technical Data

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#### Applicable Pipe Specifications

Anwendbare Normen für Rohre

Designation Bezeichnung	Titel Titel
ASTM A 53	Black and Hot-Dipped, Zinc-Coated, Welded and Seamless Steel Pipe
ASTM A 106	Seamless Carbon Steel Pipe for High-Temperature Service
ASTM A 120	Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Ordinary Uses
ASTM A 134	Electric-Fusion (Arc)-Welded Steel Pipe (Sizes NPS 16 and Over)
ASTM A 135	Electric-Resistance-Welded Steel Pipe
ASTM A 139	Electric-Fusion (Arc)-Welded Steel Pipe (NPS 4 and Over)
ASTM A 211	Spiral-Welded Steel or Iron Pipe
ASTM A 312	Seamless and Welded Austenitic Stainless Steel Pipes
ASTM A 333	Seamless and Welded Steel Pipe for Low-Temperature Service
ASTM A 335	Seamless Ferritic Alloy-Steel Pipe for High-Temperature Service
ASTM A 358	Electric-Fusion-Welded Austenitic Chromium-Nickel Alloy Steel Pipe for High-Temperature Service
ASTM A 369	Carbon and Ferritic Alloy Steel Forged and Bored Pipe for High-Temperature Service
ASTM A 376	Seamless Austenitic Steel Pipe for High-Temperature Central-Station Service
ASTM A 381	Metal-Arc-Welded Steel Pipe for Use With High-Pressure Transmission Systems
ASTM A 405	Seamless Ferritic Alloy-Steel Pipe Specially Heat Treated for High-Temperature Service
ASTM A 409	Welded Large Diameter Austenitic Steel Pipe for Corrosive or High-Temperature Service
ASTM A 430	Austenitic Steel Forged and Bored Pipe for High-Temperature Service
ASTM A 523	Plain End Seamless and Electric-Resistance-Welded Steel Pipe for High-Pressure Pipe-Type Cable Circuits
ASTM A 524	Seamless Carbon Steel Pipe for Atmospheric and Lower Temperatures
ASTM A 530	General Requirements for Specialized Carbon and Alloy Steel Pipe
ASTM A 671	Electric-Fusion-Welded Steel Pipe for Atmospheric and Lower Temperatures
ASTM A 672	Electric-Fusion-Welded Steel Pipe for High-Pressure Service at Moderate Temperatures
ASTM A 691	Carbon and Alloy Steel Pipe, Electric-Fusion-Welded for High-Pressure Service at High Temperatures
ASTM A 714	High-Strength Low-Alloy Welded and Seamless Steel Pipe
ASTM A 731	Seamless, Welded Ferritic, and Martensitic Stainless Steel Pipe
ASTM A 790	Seamless and Welded Ferritic/Austenitic Stainless Steel Pipe
ASTM A 795	Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use
ASTM A 999	General Requirements for Alloy and Stainless Steel Pipes
API 5L	Line Pipe

## Technical Data

### Technische Daten

#### Comparison Table – Service Temperatures for Boiler and Heatexchanger Tubes

Vergleichstabelle – Betriebstemperaturen für Kessel und Wärmetauscherrohre

Max. Service Temperature Max. Betriebstemperatur	ASTM  (USA)	DIN 17175  (Germany)	BS 3059-3601 3602-3603 3604-3606  (U.K.)	AFNOR NF A 49-213 NF A 49-215  (France)	EN 10216-2  (Europe)	JIS G 3456 G 3458 G 3461 G 3462 (Japan)
– 100° C – 40° C	A 334 Gr. 3 A 334 Gr. 146		503 LT 430 LT	TU 10 N 14 TU 42 BT		
475° C	A 179 A 106 Gr. A A 192	St35.8	320 360	TU 37 C	P235GH	STPT 38 STB 35
	A 106 Gr. B A 210 Gr. A1	St45.8	430	TU 42 C	P265GH	STPT 42 STB 42
	A 106 Gr. C A 210 Gr. C	17Mn4	440	TU 48 C		STPT 49
		19Mn5	500 Nb	TU 52 C		STB 52
500° C		15Mo3	243	TU 15 D 3	16Mo3	
	A 209 T1 A 335 P1	16Mo5 (VD TÜV)	245		16Mo3	STBA 12 STPA 12 STBA 13
550° C	A 213 T2 A 335 P12			TU 15 CD 2.05		STBA 20 STPA 20
560° C	A 213 T12 A 335 P12	13CrMo44	620-460	TU 13 CD 4.04	13CrMo4-5	STBA 22 STPA 22
575° C	A 213 T11 A 335 P11		621	TU 10 CD 5.05		STBA 22 STPA 23
600° C	A 213 T5 A 335 P5 A 213 T22 A 335 P22	12CrMo195  10CrMo910	625  622-490	TU Z 10 CD 05.05 TU Z 12 CD 05.05 TU 10 C 9.10	X11CrMo5  10CrMo9-10	STBA 25 STPA 25 STBA 24 STPA 24
		14MoV63				
625° C	A 213 T9 A 335 P9	X12CrMo91 (VD TÜV)	629-470 629-490	TU Z 10 CD 09	11CrMo9-10	STBA 26 STPA 26
650° C	A 213 T91 A 335 P91	X10CrMoVNb9-1		TU Z 10 CDVNb 09.01 TU Z 10 CDNbV 09.02	X10CrMoVNb9-1	

# Technical Data

## Technische Daten

**Comparison Table – International Standards**  
Vergleichstabelle – Internationale Normen

Steel No.	DIN	Grade	EN	Grade	ASTM	Grade	NFA	Grade	BS	Grade
1.0305	17175	S35.8	EN 10216-2	P235GH	A 106	A	49213	TU 37 C	3059: Part 2	360
									3602: Part 1	360
1.0405	17175	S45.8	EN 10216-2	P265GH	A 106	B	49213	TU 42 C	3059: Part 2	440
									3602: Part 1	430
1.5415	17175	15Mo3	EN 10216-2	16Mo3	A 335	P1	49213	TU 15 D 3	3059: Part 2	243
	17175	16Mo3	EN 10216-2	16Mo3	A 335	P2	49213	TU 15 CD 2.05	3606	245
1.7335	17175	13CrMo44	EN 10216-2	13CrMo4-5	A 335	P12	49213	TU 13 CD 4.04	3059: Part 2	620
									3604	620
1.7380	17175	10CrMo910	EN 10216-2	10CrMo9-10	A 335	P11	49213	TU 10 CD 5.05	3604	621
									3606	621
1.7362	17176	12CrMo195	EN 10216-2	X11CrMo5	A 335	P5	49213	TU 10 CD 9.10	3059: Part 2	622-440
	17176	X12CrMo5	EN 10216-2	X11CrMo5	A 335	P5	49213	TU 12 CD 05-05	3059: Part 2	622-490
1.7386	17176	X12CrMo9-1	EN 10216-2	11CrMo9-10	A 335	P9	49213	TU 10 CD 09	3059: Part 2	629-590
									3604	629-590
1.4922	17175	X20CrMoV12-1	EN 10216-2	X20CrMoV11-1					3059: Part 2	762
									3604	762
1.4903	17175	X10CrMoVNb9-1	EN 10216-2	X10CrMoVNb9-1	A 335	P91	49213	TU Z 10 CD/VNb 09.01	3059: Part 2	91
	17173	TTS35NV	EN 10216-4	P215NL / P255QL	A 333	1				
1.5637	17173	10Ni14	EN 10222-3	12Ni14	A 333	6	49215	TU 42 BT	3603: 1991	430 LT
	17456/58	X5CrNi1810	EN 10216-5	X5CrNi18-10	A 213 / A 312	3	49215	TU 10 N 14	3603: 1991	503 LT
1.4301	17456/58	X2CrNi1911	EN 10216-5	X2CrNi19-11	A 213 / A 312	TP 304 L	49117	Z 6 CN 18.09	3605	304 S 31
	17456/58	X5CrNiMo17122	EN 10216-5	X5CrNiMo17-12-2	A 213 / A 312	TP 316	49117	Z 2 CN 18.10	3605	304 S 11
1.4401	17456/58	X2CrNiMo17132	EN 10216-5	X2CrNiMo17-12-2	A 213 / A 312	TP 316 LN	49117	Z 6 CND 17.11	3605	316 S 31
	17456/58	X2CrNiMo18143	EN 10216-5	X2CrNiMo18-14-3	A 213 / A 312	TP 316 LN	35572	Z 2 CND 17.12	3605	316 S 11
1.4435	17456/58	X5CrNiMo17133	EN 10216-5	X3CrNiMo17-13-3	A 213 / A 312	TP 316	35572	Z 2 CND 17.13	3606	316 S 13
	17456/58	X2CrNiMoNi17135	EN 10216-5	X2CrNiMoNi17-13-5			35572	Z 6 CND 17.12	3606	316 S 33
1.4439	17456/58	X6CrNiTi1810	EN 10216-5	X6CrNiTi18-10	A 213 / A 312	TP 321	35584	Z 2 CNDU 17.16		
	17456/58	X6CrNiNb1810	EN 10216-5	X6CrNiNb18-10	A 213 / A 312	TP 347	49117	Z 6 CNT 18.10	3605	321 S 31
1.4550	17456/58	X6CrNiMoTi17122	EN 10216-5	X6CrNiMoTi17-12-2	A 213 / A 312	TP 316 Ti	35572	Z 6 CND 18.10	3605	347 S 31
	17456/58	X6CrNiMoTi17122	EN 10216-5	X6CrNiMoTi17-12-2	A 213 / A 312	TP 316 Ti	49117	Z 6 CNDT 17.12	970/4	320 S 17

# Technical Data

## Technische Daten

### Wall Thicknesses and Weights Wandstärken und Gewichte

Nominal Pipe Size	ANSI B 36.10											ANSI B 36.19																						
	Schedule 10	Schedule 20	Schedule 30	Schedule STD	Schedule 40	Schedule 60	Schedule XS	Schedule 80	Schedule 100	Schedule 120	Schedule 140	Schedule 160	Schedule XKS	Schedule 5S	Schedule 10S	Schedule 40S	Schedule 80S																	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm																
1/4"	13,7			2,24	0,63		3,02	0,80	3,02	0,80					1,65	0,50	2,24	0,64	3,02	0,81														
3/8"	17,1			2,31	0,84		3,20	1,10	3,20	1,10					1,65	0,64	2,31	0,86	3,20	1,12														
1/2"	21,3			2,77	1,27		3,73	1,62	3,73	1,62		4,78	1,95	7,47	2,55	1,65	0,81	2,11	1,02	2,77	1,29	3,73	1,65											
3/4"	26,7			2,87	1,69		3,91	2,20	3,91	2,20		5,56	2,90	7,82	3,64	1,65	1,03	2,11	1,30	2,87	1,71	3,91	2,23											
1"	33,4			3,38	2,50		4,55	3,24	4,55	3,24		6,35	4,24	9,09	5,45	1,65	1,31	2,77	2,13	3,38	2,54	4,55	3,29											
1 1/4"	42,2			3,56	3,39	3,56	4,85	4,47	4,85	4,47		6,35	5,61	9,70	7,77	1,65	1,68	2,77	2,73	3,56	3,44	4,85	4,53											
1 1/2"	48,3			3,68	4,05	3,68	5,08	5,41	5,08	5,41		7,14	7,25	10,15	9,56	1,65	1,93	2,77	3,16	3,68	4,11	5,08	5,49											
2"	60,3			3,91	5,44	3,91	5,54	7,48	5,54	7,48		8,74	11,11	11,07	13,44	1,65	2,42	2,77	3,99	3,91	5,52	5,54	7,60											
2 1/2"	73,0			5,16	8,63	5,16	7,01	11,41	7,01	11,41		9,53	14,92	14,02	20,39	2,11	3,75	3,05	5,35	5,16	8,77	7,01	11,59											
3"	88,9			5,49	11,29	5,49	7,62	15,27	7,62	15,27		11,13	21,35	15,24	27,68	2,11	4,59	3,05	6,56	5,49	11,47	7,62	15,51											
3 1/2"	101,6			5,74	13,57	5,74	8,08	18,63	8,08	18,63						2,11	5,26	3,05	7,53	5,74	13,78	8,08	18,92											
4"	114,3			6,02	16,07	6,02	8,56	22,32	8,56	22,32		13,49	33,54	17,12	41,03	2,11	5,93	3,05	8,50	6,02	16,32	8,56	22,67											
5"	141,3			6,55	21,77	6,55	9,53	30,97	9,53	30,97		15,88	49,11	19,05	57,43	2,77	9,61	3,40	11,74	6,55	22,10	9,53	31,44											
6"	168,3			7,11	28,26	7,11	10,97	42,56	10,97	42,56		18,26	67,56	21,95	79,22	2,77	11,48	3,40	14,04	7,11	28,70	10,97	43,22											
8"	218,1	6,35	33,31	7,04	36,81	8,18	42,55	10,31	53,08	12,70	64,64	12,70	64,64	15,09	75,92	18,26	90,44	20,62	100,90	23,01	111,20	22,23	107,90	2,77	14,90	3,80	20,12	8,18	43,20	12,70	65,64			
10"	273,0	6,35	41,77	7,80	51,03	9,27	60,31	9,27	60,31	12,70	81,55	12,70	81,55	15,09	96,01	18,26	114,70	21,44	135,00	25,40	155,10	28,58	172,30	25,40	155,10	3,40	22,95	4,19	28,20	9,27	61,22	12,70	82,78	
12"	323,8	6,35	49,73	8,38	65,20	9,53	73,88	10,31	79,73	14,27	108,90	12,70	97,46	17,48	132,00	21,44	159,90	25,40	186,90	28,58	208,10	33,32	238,70	25,40	186,90	3,96	31,71	4,57	36,53	9,53	74,94	12,70	98,96	
14"	355,6	6,35	54,69	7,92	67,90	9,53	81,33	9,53	81,33	11,13	94,55	15,09	126,70	12,70	107,30	19,05	158,10	23,83	194,90	27,79	224,60	31,75	253,50	35,71	281,70	3,96	34,87	4,78	41,99	9,53	82,50	12,70	109,05	
16"	408,4	6,35	62,64	7,92	77,83	9,53	93,27	9,53	93,27	12,70	123,30	16,66	160,10	12,70	123,30	21,44	203,50	26,19	245,50	30,96	286,60	36,53	333,10	40,49	365,30	4,19	42,20	4,78	48,07	9,53	94,61	12,70	125,20	
18"	457,2	6,35	70,57	7,92	87,71	11,13	122,30	9,53	105,10	14,27	155,80	19,05	205,70	12,70	139,10	23,83	254,50	29,36	309,60	34,93	363,50	39,67	408,20	45,74	459,30	4,19	47,53	4,78	54,15	9,53	106,83	12,70	141,35	
20"	508,0	6,35	78,55	9,53	117,10	12,70	155,10	9,53	117,10	15,09	183,40	20,62	247,80	12,70	155,10	26,19	311,10	32,54	381,50	38,10	441,40	44,45	508,10	50,01	564,80	4,78	60,23	5,54	69,70	9,53	118,95	12,70	157,51	
22"	558,8	6,35	86,54	9,53	129,10	12,70	171,00	9,53	129,10		22,23	294,20	12,70	171,00	28,58	373,80	34,93	451,40	41,28	527,00	47,63	600,60	53,90	672,20	4,78	66,31	5,54	76,75	9,53	131,07	12,70	173,66		
24"	609,6	6,35	94,53	9,53	141,10	14,27	209,60	9,53	141,10	17,48	255,40	24,61	355,20	12,70	187,00	30,96	442,00	38,89	547,70	46,02	640,00	52,37	720,10	59,54	808,20	5,54	83,80	6,35	95,92	9,53	143,20	12,70	189,82	
26"	660,4	7,92	127,30	12,70	202,70		282,20		202,70		282,20		389,50		282,20		408,20		523,70		640,00		760,00		876,00		93,53	155,22	12,70	205,85				
28"	711,2	7,92	137,30	12,70	218,60	15,88	271,20	9,53	164,80		218,60		294,20		218,60		309,60		408,20		508,10		608,00		707,90		9,53	167,39	12,70	222,06				
30"	762,0	7,92	147,20	12,70	234,60	15,88	291,10	9,53	176,80		234,60		319,60		234,60		333,10		432,60		532,60		632,60		732,60		6,35	120,15	7,92	149,55	9,53	179,56	12,70	238,28
32"	812,8	7,92	157,20	12,70	250,60	15,88	312,10	9,53	188,80	17,48	342,90		408,20		250,60		365,30		464,80		564,80		664,80		764,80						9,53	191,73	12,70	254,50
34"	863,6	7,92	167,20	12,70	266,60	15,88	332,10	9,53	200,30	17,48	364,90		432,60		266,60		399,60		509,60		609,60		709,60		809,60						9,53	203,90	12,70	270,72
36"	914,4	7,92	176,90	12,70	282,20	15,88	351,70	9,53	212,50	19,05	420,40		488,20		282,20		420,40		560,60		660,60		760,60		860,60						9,53	215,83	12,70	286,62

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1 **DIN Boiler Tubes**  
DIN Kesselrohre

2 **DIN Fittings**  
DIN Fittings

3 **ASTM Pipes**  
ASTM Rohre

4 **ASTM Fittings**  
ASTM Fittings

5 **Seamless / Welded Stainless Steel Tubes and Pipes**  
Nahtlose / Geschweißte Edelstahlrohre

6 **Stainless Steel Fittings / Flanges to ASTM and DIN**  
Edelstahl Fittings / Flansche nach ASTM und DIN

7 **Carbon / Alloy Steel Flanges to ASTM and DIN**  
C-Stahl / Legierte Flansche nach ASTM und DIN

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