

Scope according to		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3		<input type="checkbox"/> EN 764-4		<input checked="" type="checkbox"/> AD 2000-Merkblatt W0		<input type="checkbox"/> Regulation (EU) No. 305/2011(System 2+)				
Manufacturer				Work				Nationality	Date	Page No..		
Company Name: Wilhelm Schulz GmbH Location: Kuhleshütte 111 47809 Krefeld Germany				Wilhelm Schulz GmbH Kuhleshütte 111 47809 Krefeld Germany				D	10.05.23	1	TÜV Rheinland Industrie Service GmbH	
									Rev.:22	of : 13		
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max  1=t / 2=kg ↓ res ult	Technical Specifications  Requirements  Technical Regulations	Remarks	
					Thick- ness mm		Ø mm					
					from	Up to	from	Up to				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
<b>1. Materials according to harmonized European standards (hEN) and European Approval for Materials (EAM) acc. Directive 2014/68/EU</b>												
The use of the materials according to Directive 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.												
1	Austenitic steels	DIN EN 10253-4	AT	Cap Collar Stub end Reducer	3	28	15	500 400 200			DIN EN 10253-4	made from plate
2	Austenitic steels	DIN EN 10028-7	AT	Flange	3	28	15	200			EN 1092	Table 3 of EN 10028-7 made from plate
3	X2CrNiMoN22-5 (1.4462) X1CrNiMoCuN20-18-7 (1.4547) X1CrNiMoCuN25-20-7 (1.4529) X1CrNiMoCuN25-20-5 (1.4539) X2CrNiMoN25-7-4 (1.4410) X2CrNiMoCuWN25-7-4 (1.4501)	DIN EN 10253-4	AT	Cap Reducer	1,6	28	15	500			DIN EN 10253-4	made from plate
<b>Remarks</b>		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed				+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved				a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary		



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Manufacturer				Work				Nationality	Date	Page No..		
Company Name: Wilhelm Schulz GmbH Location: Kuhleshütte 111 47809 Krefeld Germany				Wilhelm Schulz GmbH Kuhleshütte 111 47809 Krefeld Germany				D	12.05.22	2	TÜV Rheinland Industrie Service GmbH	
								Rev.:21	of : 13			
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions  Thick- ness mm  Ø mm				Weight max  1=t / 2=kg  ↓ res ult	Technical Specifications  Requirements  Technical Regulations	Remarks	
1	2	3	4	5	6a	6b	7a	7b	8a	8b	10	
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4	Ferritic steels	DIN EN 10253-2	N	Cap	3	10	15	500			DIN EN 10253-2	made from plate
5	Ferritic steels	DIN EN 10253-2	N	Flange	3	10	15	200			DIN EN 10253-2	made from plate
6	Austenitic steels	DIN EN 10253-4	AT	Elbow r/da>1.0 Tee Reducer	1,6	50	15	600			DIN EN 10253-4	made from seamless and welded pipe
7	X2CrNiMoN22-5 (1.4462) X1CrNiMoCuN20-18-7 (1.4547) X1CrNiMoCuN25-20-7 (1.4529) X1CrNiMoCuN25-20-5 (1.4539) X2CrNiMoN25-7-4 (1.4410) X2CrNiMoCuWN25-7-4 (1.4501)	DIN EN 10253-4	AT	Elbow r/da>1.5 Tee Reducer	1,6	60	15	600			DIN EN 10253-4	made from seamless pipe / Welded pipe and plates
<b>Remarks</b>		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed +NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary										



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Company Name: Wilhelm Schulz GmbH Location: Kuhleshütte 111 47809 Krefeld Germany				Wilhelm Schulz GmbH Kuhleshütte 111 47809 Krefeld Germany				D	12.05.22	3	TÜV Rheinland Industrie Service GmbH	
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8	1.4410 / 1.4501	DIN EN 10217-7	AT	Welded pipe	3	60	60,3	914			DIN EN 10217-7	
9	1.4462	DIN EN 10217-7	AT	Welded pipe	3	75	60,3	914			DIN EN 10217-7	
10	Austenitic steels	DIN EN 10217-7	AT	Welded pipe	3	75	60,3	914			DIN EN 10217-7	Table 3
<b>Remarks</b>		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed +NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary										

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Manufacturer				Work				Nationality	Date	Page No..	
Company Name: Wilhelm Schulz GmbH Location: Kuhleshütte 111 47809 Krefeld Germany				Wilhelm Schulz GmbH Kuhleshütte 111 47809 Krefeld Germany				D	12.05.22	4	TÜV Rheinland Industrie Service GmbH
								Rev.:21	of : 13		
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions  Thick- ness mm  Ø mm  from Up to from Up to				Weight max  1=t / 2=kg  ↓ res ult	Technical Specifications  Requirements  Technical Regulations	Remarks
1	2	3	4	5	6a	6b	7a	7b	8a 8b	9	10

## 2. Materials according to the AD 2000-Code

The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.

11	Austenitic steels	DIN EN 10253-4	AT	Cap Collar Stub end Reducer	3	28	15	500 400 200		AD2000-W2, W10 DIN EN 10253-4 VdTÜV 1252	Table 2a and 2b of AD 2000 W2 made from plate
12	Austenitic steels	DIN EN 10028-7	AT	Flange	3	28	15	200		AD2000-W2, W9, W10	Table 2a and 2b of AD 2000 W2 made from plate
13	X2CrNiMoN22-5 (1.4462) X1CrNiMoCuN20-18-7 (1.4547) X1CrNiMoCuN25-20-7 (1.4529) X1CrNiMoCuN25-20-5 (1.4539) X2CrNiMoN25-7-4 (1.4410) X2CrNiMoCuWN25-7-4 (1.4501)	DIN EN 10253-4	AT	Cap Reducer	1,6	28	15	500		AD 2000-W2 DIN EN 10253-4 VdTÜV 1252	made from plate  VdTÜV 418, VdTÜV 473, VdTÜV 502, VdTÜV 421 are to consider for the semi-finished material

<b>Remarks</b>	+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed	+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved	a = RMA for the use in pressure equipment in Directive 2014/68/EU necessary
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Company Name: Wilhelm Schulz GmbH Location: Kuhleshütte 111 47809 Krefeld Germany				Wilhelm Schulz GmbH Kuhleshütte 111 47809 Krefeld Germany				D	12.05.22	5	TÜV Rheinland Industrie Service GmbH	
								Rev.:21	of : 13			
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max		Technical Specifications  Requirements  Technical Regulations	Remarks
					Thick- ness mm		Ø mm		1=t / 2=kg			
					from	Up to	from	Up to	↓	res ult		
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
<b>2. Materials according to the AD 2000-Code</b>												
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14	NiCrN21Mo (2.4858)	VdTÜV 432-1	A	Cap, Reducer	1,6	28	15	500			AD 2000-W2 DIN EN 10253-4 VdTÜV 1252	made from plate
15	2.4856	VdTÜV 499	A	Cap	1,6	28	15	500			VdTÜV 499	made from plate
16	Ferritic steels	EN 10025-2	N	Cap	3	10	15	500			AD 2000 W1 VdTÜV 1252	Table 2 of AD 2000 W1 made from plate; a)
17	Ferritic steels	EN 10025-2	N	Flange	3	10	15	200			AD 2000-W9	Table 2 of AD 2000 W1 made from plate; a)
<b>Remarks</b>		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed +NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved										

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Company Name: Wilhelm Schulz GmbH Location: Kuhleshütte 111 47809 Krefeld Germany				Wilhelm Schulz GmbH Kuhleshütte 111 47809 Krefeld Germany				D	12.05.22	6	TÜV Rheinland Industrie Service GmbH	
								Rev.:21	of : 13			
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max	Technical Specifications	Remarks	
					Thick- ness mm		Ø mm		1=t / 2=kg	Requirements		
					from	Up to	from	Up to	↓ res ult	Technical Regulations		
1	2	3	4	5	6a	6b	7a	7b	8a 8b	9	10	
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18	Ferritic steels	EN 10028-2	N	Cap	3	10	15	500			AD 2000-W1 VdTÜV 1252	Table 1 of AD 2000 W1 made from plate
19	Ferritic steels	EN 10028-2	N	Flange	3	10	15	200			AD 2000-W9 VdTÜV 1252	Table 1 of AD 2000 W1 made from plate
20	Austenitic steels	DIN EN 10253-4	AT	Elbow r/da>1.0 Tee Reducer	1,6	50	15	600			AD 2000-W2, W10 DIN EN 10253-4 VdTÜV1252	made from seamless and welded pipe pipe
<b>Remarks</b>		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed				+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved				a = RMA for the use in pressure equipment in Directive 2014/68/EU necessary		

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Company Name: Wilhelm Schulz GmbH Location: Kuhleshütte 111 47809 Krefeld Germany				Wilhelm Schulz GmbH Kuhleshütte 111 47809 Krefeld Germany				D	12.05.22	7	TÜV Rheinland Industrie Service GmbH	
								Rev.:21	of : 13			
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max	Technical Specifications	Remarks	
					Thick- ness mm		Ø mm		1=t / 2=kg	Requirements		
					from	Up to	from	Up to	↓ res ult	Technical Regulations		
1	2	3	4	5	6a	6b	7a	7b	8a 8b	9	10	

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21	X2CrNiMoN22-5 (1.4462) X1CrNiMoCuN20-18-7 (1.4547) X1CrNiMoCuN25-20-7 (1.4529) X1CrNiMoCuN25-20-5 (1.4539) X2CrNiMoN25-7-4 (1.4410) X2CrNiMoCuWN25-7-4 (1.4501)	DIN EN 10253-4	AT	Elbow r/da>1.5 Tee Reducer	1,6	60	15	600			AD 2000-W2 DIN EN 10253-4 VdTÜV 1252	made from seamless pipe / Welded pipe and plates  VdTÜV 418, VdTÜV 473, VdTÜV 502, VdTÜV 421 are to consider for the semi-finished material
22	NiCrN21Mo (2.4858)	VdTÜV 432-2	A	Elbow r/da>1.5 Tee Reducer	1,6	60	15	600			AD 2000-W2 VdTÜV 1252	Pos 06: made from seamless pipe / Welded pipe and plates a)
23	P235TR2, P265TR2, P235GH, P265GH, L290NB, L360NB, L415NB	EN 10253-2	N	Elbow r/da>1.5 Tee Reducer	3	40	30	600			AD 2000-W4, VdTÜV 1252	Pos 08: made from seamless pipe

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	+M = thermo mechanical treated	+S = soft annealed	
	+N = normalized or normalizing formed	+SR = stress relieved	



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Company Name: Wilhelm Schulz GmbH Location: Kuhleshütte 111 47809 Krefeld Germany				Wilhelm Schulz GmbH Kuhleshütte 111 47809 Krefeld Germany				D	12.05.22	8	TÜV Rheinland Industrie Service GmbH	
								Rev.:21	of : 13			
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max		Technical Specifications  Requirements  Technical Regulations	Remarks
					Thick- ness mm		Ø mm		1=t / 2=kg			
					from	Up to	from	Up to	↓	res ult		
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
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24	P195TR2, P235TR2, P265TR2	EN 10216 part 1	N	Elbow r/da>1.5 Tee Reducer	3	40	30	600			AD 2000-W14 VdTÜV 1252	Pos 08: made from seamless pipe
25	P195GH, 16Mo3	EN 10216-2	N	Elbow r/da>1.5 Tee Reducer	3	40	30	600			AD 2000-W4 VdTÜV 1252	Pos 08: made from seamless pipe
26	P215NL, P265NL	EN 10216-4	N	Elbow r/da>1.5 Tee Reducer	3	40	30	600			AD 2000-W4 VdTÜV 1252	Pos 08: made from seamless pipe
27	L245NB, L290NB, L360NB, L415NB	EN 10208-2	N	Elbow r/da>1.5 Tee Reducer	3	40	30	600			AD 2000-HP 100R VdTÜV 1252	Pos 08: made from seamless pipe
<b>Remarks</b>		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed +NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved a = RMA for the use in pressure equipment in Directive 2014/68/EU necessary										



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Company Name: Wilhelm Schulz GmbH Location: Kuhleshütte 111 47809 Krefeld Germany				Wilhelm Schulz GmbH Kuhleshütte 111 47809 Krefeld Germany				D	12.05.22	9	TÜV Rheinland Industrie Service GmbH	
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28	13CrMo4-5, 10CrMo9-10	EN 10253-2	V	Elbow r/da>3.0 Tee	3	30	20	250			AD 2000-W4 VdTÜV 1252	Pos. 09: made from seamless pipe
29	15MnNi63	VdTÜV 427/2	N	Elbow r/da>1.4 Tee	3	30	30	350			KTA 3201.1, 3401.1	made from seamless pipe VdTÜV Werkstoffblatt 427/2 are to consider a)
30	12Ni14	EN 10216 part 4	V	Elbow r/da>3.0 Tee Reducer	3	10	30	350			AD 2000-W4, W10 VdTÜV 1252	Pos. 11: made from seamless pipe
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31	1.4410 / 1.4501	DIN EN 10217-7	AT	Welded pipe	3	60	60,3	914			AD 2000 W2 DIN EN 10217-7	VdTÜV Werkstoffblatt 508 are to consider
32	1.4462	DIN EN 10217	AT	Welded pipe	3	75	60,3	914			AD 2000 W2 DIN EN 10217-7	VdTÜV Werkstoffblatt 518 are to consider
33	Austenitic steels	DIN EN 10217-7	AT	Welded pipe	3	75	60,3	914			AD 2000 W2 DIN EN 10217-7	Table 1a (of AD 2000 W2) VdTÜV Werkstoffblätter are to consider
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					from	Up to	from	Up to	↓	res ult		
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10

**3. Materials according to international standards ( e. g. ASTM, ASME, IBR etc. )**

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34	Austenitic steels	ASTM A 403	AT	Cap Collar Stub end	3	28	15	500 400 200			ASTM A 403	made from plate a)
35	Austenitic steels	ASTM A 240	AT	Flange	3	28	15	200			ASME B16.5	made from plate a)
36	N08926, N06625, N06600, N08825	ASTM-B366	A	Cap	1,6	28	15	500			ASTM-B366	made from plate
37	Austenitic steels	ASTM A403	AT	Elbow r/da>1.0 Tee Reducer	1,6	50	15	600			ASTM A 403	made from seamless and welded pipe a)

<b>Results</b>		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed		+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved		a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary									
Scope according to		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3		<input type="checkbox"/> EN 764-4		<input checked="" type="checkbox"/> AD 2000-Merkblatt W0		<input type="checkbox"/> Regulation (EU) No. 305/2011(System 2+)							
Manufacturer				Work				Nationality		Date		Page No..			
Company Name: Wilhelm Schulz GmbH Location: Kuhleshütte 111 47809 Krefeld Germany				Wilhelm Schulz GmbH Kuhleshütte 111 47809 Krefeld Germany				D		12.05.22		12		TÜV Rheinland Industrie Service GmbH	
								Rev.:21		of : 13					
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max  1=t / 2=kg ↓ res ult	Technical Specifications  Requirements  Technical Regulations	Remarks				
					Thick- ness mm	Ø mm									
					from	Up to	from	Up to							
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10			
<b>3. Materials according to international standards ( e. g. ASTM, ASME, IBR etc. )</b>															
The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.															
38	N 08825	ASTM B366	A	Elbow r/da>1.5 Tee Reducer cap	1,6	45	15	600			ASTM B366	made from seamless pipe / Welded pipe and plates; a)			
39	N06625, N06600	ASTM B366	A	Elbow r/da>1.5 Tee Reducer cap	1,6	45	15	600			ASTM B366	made from seamless pipe / Welded pipe and plates; a)			
40	S32750 / S 32760	ASTM A 928	AT	Welded pipe	3	60	60,3	914			ASTM A 928	a)			
41	S31803/S32205	ASTM A 928	AT	Welded pipe	3	75	60,3	914			ASTM A 928	a)			
<b>Results</b>		+AT = solution annealed +AR = as rolled		+NT = normalized and tempered +QT = quenched and tempered		a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary									



	+M = thermo mechanical treated	+S = soft annealed
	+N = normalized or normalizing formed	+SR = stress relieved

