

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"/> FPC, Regulation (EU) No. 305/2011(System 2+)							
Manufacturer				Work		Nationality	Date	Page No..	TÜV-Name /Stamp			
Company Name: Wilhelm Schulz GmbH Edelstahl-Preß- u. Stanzwerk Kuhleshütte 85 Location: 47809 Krefeld				Krefeld		D	18.05.2018 Rev.: 18	1 of : 5	TÜV Rheinland Industrie Service GmbH			
No	Materials-term Materials-No.	Material Specification	Delivery Cond. *	Article Type of Product	Dimensions				Weight max	Specifications/ Requirements Techn.Regulations	Remarks	
					Thickness mm		Ø mm					
					from	to	from	to				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
<p>The use of the materials according to DGR 2014/68//EC is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the single approval. Equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) are also included.</p> <p>For deliveries according to German regulations (e.g. AD, A2000, TRD, TRbF) the requirements of VdTÜV-Merkblatt 1252 respectively 1062 are valid.</p> <p>The manufacture isn't named in the written "VdTÜV Werkstoffblätter". If the material manufacturer are not named in the "VdTÜV-Merkblättern" the use is possible after a suitability check (AD 2000 W0 part 3.2.1). A particular Material Appraisal (PMA) is requested for the application of ASTM / ASME material grades.</p>												
01 01a	Austenitic steels	EN 10028 part 7 ASTM A 240	A	Flange Cap Collar Stub end	3	28	15	200 500 400 200			AD2000-W2, W9, W10 ASTM A 403	made from plate
02 02a	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) NiCrN21Mo (2.4858) S 31803/S32205, S 32750, S 32760 S 31254 N 08926, N 08904 N 08825	VdTÜV 418 VdTÜV 473 VdTÜV 502 VdTÜV 421 EN 10028-7 EN 10028-7 VdTÜV 432 ASTM A 240 ASTM A 240 ASTM A 240 ASTM B 424	A       G	Cap	1,6	28	15	500			AD 2000-W2       ASTM A 815 ASTM A 403 ASTM A 366 ASTM B 366	made from plate
2b	2.4856 N06625	VdTÜV 499 ASTM-B 443	A A								VdTÜV 499 ASTM-B366	
03	Ferritic steels	EN 10025 EN 10028 part 2	N	Flange Cap	3	10	15	200 500			AD 2000-W9	made from plate
04 04a	Austenitic steels	EN 10216 part 5 ASTM A 312	A	Elbow r/da>1.0 Tee Reducer	1,6	50	15	600			AD 2000-W2, W10 ASTM A 403	Pos 04: made from seamless pipe

Annex to Certificate No.: 01 202 926/Q-01 0026

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No	Materials-term Materials-No.	Material Specification	Delivery Cond. *	Article Type of Product	Dimensions				Weight max		Specifications/ Requirements Techn.Regulations	Remarks
					Thickness mm		Ø mm		8a	8b		
					from	to	from	to				
1	2	3	4	5	6a	6b	7a	7b	9	10		
05 05a	Austenitic steels	EN 10217 part 7 ASTM A 312/358		Elbow r/da>1.5 Tee Reducer	1,6	50	15	600			AD-W2, W10 ASTM A 403	Pos. 05: made from welded pipe
06 06a 6b	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) NiCrN21Mo (2.4858) S 31803/S32205 S 31254 N 08926, N 08904 N 08825 2.4856 N06625	VdTÜV 418 VdTÜV 473 VdTÜV 502 VdTÜV 421 EN 10216-5 EN 10216-5 VdTÜV 432 ASTM A 790/928 ASTM A 312/358 ASTM A 312/358 ASTM B 423 VdTÜV 499 ASTM B 444	A  G  A A	Elbow r/da>1.5 Tee Reducer	1,6 1,6	60 45 45	15 15 15	600 600 600			AD 2000-W2  ASTM A 815 ASTM A 403 ASTM A 366 ASTM B 366 Vd-TÜV 499 ASTM B366	Pos 06: made from seamless pipe / Welded pipe (EN 10217-7)
07	See Pos. 01 - 02	See Pos. 01 - 02	A / G	Elbow r/da>1.5 Tee Reducer	1,6	50	15	600			AD 2000-W2	Pos 07: Fittings made from coldformed plate. Manufacturing and testing are based on valid welding qualification tests and the requirements according to AD2000, series HP or similar codes.

**Annex to Certificate No.: 01 202 926/Q-01 0026**

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No	Materials-term Materials-No.	Material Specification	Delivery Cond. *	Article Type of Product	Dimensions				Weight max		Specifications/ Requirements Techn.Regulations	Remarks			
					Thickness mm		Ø mm		8a	8b					
					from	to	from	to							
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10			
8	Ferritic carbon steels P195TR2, P235TR2, P265TR2 P195GH, P235GH, P265GH, 20MnB6, 16Mo3 P215NL, P265NL L245NB, L290NB, L360NB, L415NB	EN 10216 part 1 EN 10216 part 2  EN 10216 part 4 EN 10208 part 2	N	Elbow r/da>1.5 Tee Reducer	3	40	30	600			AD 2000-W13, TRD 102, TRbF 301, DIN 2470	Pos 08: made from seamless pipe			
09	13CrMo4-5, 10CrMo9-10	EN 10216 part 2	V	Elbow r/da>3.0 Tee	3	30	20	250			AD 2000-W13, TRD 102	Pos. 09: made from seamless pipe			
10	15MnNi63	VdTÜV 427/2	N	Elbow r/da>1.4 Tee	3	30	30	350			KTA 3201.1, 3401.1	Pos. 10: made from seamless pipe			
11	12Ni14	EN 10216 part 4	V	Elbow r/da>3.0 Tee Reducer	3	10	30	350			AD 2000-W13, W10	Pos. 11: made from seamless pipe			
12	X20CrMoV11-1	EN 10216 part 2	V	Tube helix, helix Ø > 550	3	7	50	80			AD 2000-W4, TRD 102	Pos 12: made from seamless pipe			
--	--entfällt--														
14 14a	Austenitic steels	EN 10216 part 5 ASTM A 312	A	Seamless pipe	2	40	20	600			AD 2000-W2, AD- W10 ASTM A 312	Pos 14: made by ERS procedure			

**Annex to Certificate No.: 01 202 926/Q-01 0026**

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No	Materials-term Materials-No.	Material Specification	Delivery Cond.  *	Article Type of Product	Dimensions				Weig ht  max		Specifications/ Requirements  Techn.Regulations	Remarks			
					Thicknes s mm		Ø mm		8 a	8 b					
					from 6a	to 6b	from 7a	to 7b							
1	2	3	4	5	6a	6b	7a	7b	8 a	8 b	9	10			
15 15a	X2CrNiMoN22-5 (1.4462) X2CrNiMoN25-7-4 (1.4410) X2CrNiMoCuWN25-7-4 (1.4501) S31803/S32205, S32760/S32750	VdTÜV 418 EN 10216-5 EN 10216-5 ASTM A 790	A	Seamless pipe	3	60	200	400			AD 2000-W2, AD 2000 W10 ASTM A 790	Pos 15: made by ERS procedure VdTÜV 418: Particular material appraisal necessary			
16	Other material grades											Pos 16: Fittings of other material grades according to the single approval established by the resaponsible notified body.			
17	1.4903	EN 10216 part 2 VdTÜV 511/2	V	Seamless pipe	6,3	36	114	609			EN 3480/ EN 12952 AD-W4	Pos 17: made by ERS procedure			
18	1.4410 / S32750 1.4501 / S 32760	DIN EN 10217-7 ASTM A 928 (1.4410 VdTüV 508)	A	Welded pipe	3	60	60,3	914			AD 2000 W2 / DIN EN 10217-7 ASTM A 928				
19	1.4462 / S31803/S32205	DIN EN 10217-7 ASTM A 928 (1.4410 VdTüV 518)	A	Welded pipe	3	75	60,3	914			AD 2000 W2 / DIN EN 10217-7 ASTM A 928				
20	Austenitic steels	DIN EN 10217-7 ASTM A 928	A	Welded pipe	3	75	60,3	914			AD 2000 W2 / DIN EN 10217-7 ASTM A 358	VdTüV Werkstoffblätter are to consider			

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No	Materials-term Materials-No.	Material Specification	Delivery Cond. *	Article Type of Product	Dimensions				Weight max		Specifications/ Requirements Techn.Regulations	Remarks
					Thickness mm		Ø mm		8a	8b		
					from	to	from	to				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
<b>Remarks</b> * A = Solution treatment and quenched L = Solution treatment N = Normalized S = Stress relieved annealed TM = Thermos mechanical treatment U = not treated V = Quenched and tempered CR = Temperature controlled rolled G = Soft annealed a = Material b = delivery condition c = Article d = dimensions in tech. Regulations e = Weight f = No. of tech. Regulation												

**All Material according VdTÜV : The relevant third party prepare an individual certificate**

Rev. 10 Amendment of number 17

Rev. 11 Change of thickness from 3 mm to 1,6 mm for number 2, 4-7, amendment ASTM for number 14 and 15

Rev. 12 Amendment of ASTM material grades for number 01, 02 , 04, 05 06

 Rev. 13 no 01/02: thickness changed from 10 mm to 28 mm; no 02/06/15: duplex grade 1.4501 and 1.4410 emended; no 06/15: thickness changed to 60 mm;  
 no 07: welded pipe amended; general: tube changed to pipe

Rev.14 All Material according VdTÜV : The relevant third party prepare an individual certificate

Rev. 15 Pos 18, 19 and 20 are new

Rev. 16

Rev. 17

Rev. 18 : No. 13 are deleteted

