


**Annex to Certificate no.: 01 2627 IN/M1-220015.00**

Scope according to:		<input checked="" type="checkbox"/> Directive 2014/68/EU, Annex I, point 4.3				<input checked="" type="checkbox"/> AD 2000-Merkblatt W 0						
Manufacturer			Work		Country		Date		Page no.	TÜV Rheinland Polska Sp. z o.o.		
Company name: Exotic Piping Solutions Inc Location: 13/21, Seth Virchand Umersy Bldg, Gr.Flr.Office No.02, 3rd Panjrapole, C.P.Tank Road, Mumbai 400004			W-69, Midc Industrial Area, Near Bhushan Hotel, Rabale, Navi Mumbai- 400701		India		06-08-2022		1 of 2			
							Rev.: [0]					
Pos.	Materials-term Materials-no.	Material specification	Delivery conditions	Article Type of Product	Dimensions				Weight max.		Technical specifications Requirements Technical regulations	Remarks
					Thickness mm		Ø mm		1=t 2=kg ↓	result		
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10


**1. Materials according to the AD 2000 Code**

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	1.4301, 1.4404, 1.4401 1.4541, 1.4571, 1.4307	EN 10222-5	AT	Forgings Flanges	2.10 2.10	50.8 50.8	12.7 12.7	882 882			AD 2000 W 2,W9 W10	
---	--	------------	----	---------------------	--------------	--------------	--------------	------------	--	--	-----------------------	--

Remarks: +AT = solution annealed      +N = normalized or normalizing formed      +S = soft annealed  
 +AR = as rolled      +NT = normalized and tempered      +SR = stress relieved  
 +M = thermomechanical treated      +QT = quenched and tempered      A = PMA for the use in pressure equipment in Directive 2014/68/EU necessary

**Annex to Certificate no.: 01 2627 IN/M1-220015.00**

Scope according to:		<input checked="" type="checkbox"/> Directive 2014/68/EU, Annex I, point 4.3				<input checked="" type="checkbox"/> AD 2000-Merkblatt W 0						
Manufacturer			Work			Country		Date		Page no.	TÜV Rheinland Polska Sp. z o.o.	
Company name: Exotic Piping Solutions Inc Location: 13/21, Seth Virchand Umersy Bldg, Gr.Flr.Office No.02, 3rd Panjrapole, C.P.Tank Road, Mumbai 400004			W-69, Midc Industrial Area, Near Bhushan Hotel, Rabale, Navi Mumbai- 400701			India		06-08-2022		1 of 2		
								Rev.: [0]				
Pos.	Materials-term Materials-no.	Material specification	Delivery conditions	Article Type of Product	Dimensions				Weight max.		Technical specifications Requirements Technical regulations	Remarks
					Thickness mm		Ø mm		1=t 2=kg ↓	result		
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10

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

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.

2	WP304,WP304L,WP304H, WP316Ti WP316,WP316L,WP316H,WP347 WP347H,WP321, WP317L, WP317	ASTM A 403	AT	} Pipe Fittings  } Flanges  } Fittings  } Forgings								PMA for the use in pressure equipment in Directive 2014/68/EU necessary
3	WPB,WPC	ASTM A 234	N		2.10	25.4	12.7	609.6				
4	WP22,WP91,WP5,WP9,WP11	ASTM A 234	NT									
5	F 304,F304L,F304H,F310,F904L F316,F316L,F321, F316H,F316Ti, F317L, F51,F53,F55,F60,F347,F347H	ASTM A 182	AT		2.10	50.8	12.7	882				
6	A 105	ASTM	N		2.10	25.4	12.7	609.6				
7	LF 2, LF 3	A 350	N		2.10	50.8	12.7	882				

Remarks: +AT = solution annealed      +N = normalized or normalizing formed      +S = soft annealed  
 +AR = as rolled                              +NT = normalized and tempered                      +SR = stress relieved  
 +M = thermomechanical treated      +QT = quenched and tempered                      A = PMA for the use in pressure equipment in Directive 2014/68/EU necessary