


Scope according to	<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input type="checkbox"/> EN 764-4	<input type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)								
Manufacturer		Work		Nationality	Date	Page No..						
Company Name: McInnes Rolled Rings		1533 E 12th Street, Erie PA. 16511, USA		USA	Nov. 20, 2018	1	TÜV Rheinland Industrie Service GmbH					
Location: 1533 E 12th Street, Erie PA. 16511, USA					Rev.: 1	of : 1						
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	↓	result		
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
1. Materials according to harmonized European standards (hEN) and European Approval for Materials (EAM) acc. Directive												
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	ATMA105 / ASME SA105		AR, N, NT, QT	Forging	-	558	-	3,658	2	4,000	ASTM/ ASME	* PMA needs to be prepared y the end user
2	ASTMA266 / ASME SA266	Grades 2, 4	N, NT, QT	Forging	-	558	-	3,658	2	4,000	ASTM/ ASME	
3	ASTMA350 / ASME SA350	Grade LF2	N, NT, QT	Forging	-	558	-	3,658	2	4,000	ASTM/ ASME	
4	ASTMA182 / ASME SA 182	F6A, F22	NT, A	Forging	-	558	-	3,658	2	4,000	ASTM/ ASME	
Remarks												
+AT = solution annealed			+NT = normalized and tempered			a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary						
+AR = as rolled			+QT = quenched and tempered									
+M = thermo mechanical treated			+S = soft annealed									
+N = normalized or normalizing formed			+SR = stress relieved									
+A = annealed												