

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..					
Company Name: HYTORC Division UNEX Corporation				24 Burgess Pl. Wayne, NJ 07470	USA	11-Feb-20	1	TÜV Rheinland Industrie Service GmbH				
Location: 100 Wesley Street, S. Hackensack, NJ 07696						Rev.: 0	of : 3					
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	
					Thickness 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	34 CrNiMo 6	EN 10269	+QT	3 Piece nut Assembly, reaction Washer	-	-	20	250	-	-	*	a (PMA by PE manufacturer for diamters > 120mm)
2	40 CrMoV4-6	EN 10269	+QT		-	-	20	250	-	-	*	a (PMA by PE manufacturer for diamters > 160mm)
<b>Remarks</b>												
+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			*= EN 10204 3.2 Req'd						

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Location: 100 Wesley Street, S. Hackensack, NJ 07696					Rev.: 0	of : 3						
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					Thickness mm		Ø mm					
					from	Up to	from	Up to				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
<b>2. Materials according to the AD 2000-Code</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.												
1	X22CrMoV12-1	EN 10269	+QT1	3 Piece nut Assembly, reaction Washer	-	-	20	250	-	-	AD2000 W7	a (PMA by PE manufacturer for diamters > 160mm)
2	21 CrMoV 5-7	EN 10269	+QT		-	-	20	250	-	-	AD2000 W7	a (PMA by PE manufacturer for diamters > 160mm)
<b>Remarks</b>												
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+AR = as rolled			+QT = quenched and tempered									
+M = thermo mechanical treated			+S = soft annealed									
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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.												
1	AISI 4340 AQ	SAE AMS 6415 S	+QT	3 Piece nut Assembly, reaction Washer	-	-	20	250	-	-	TLV1050*	a
2	Gr. B16	ASME/ASTM A193/A193M	+QT		-	-	20	250	-	-	TLV1050*, TLV1051*	a
3	Gr. B7	ASME/ASTM A193/A193M	+QT		-	-	20	250	-	-	*	a
<b>Results</b>												
+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									
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