Roc-Master®	Qualification Test Record (QTR NORSOK M-650		R)	QTR. No.: RM-QTR- 01		
Piping Solutions					Rev. No.:01	
Manufacturer name/address/ Web page:	Address:South Park, Qingyuar Web Page:www	Manufacturer Name: Roc-Master Piping Solutions Ltd. Address:Southeastern crossroad of road A105 and KeJiao Road, Hedong Industrial Park, Qingyuan District, Jian, Jiangxi, P. R. China Web Page:www.roc-master.com				
Reference standard	NORSOK Stan	dard M-650 Editio	n 4, September 2	D11 		
Material designation and MDS No.:		ASTM A182 F51/F60 (S31803/S32205); MDS D44 Rev.5				
Manufacturing Summary doc. No.:	RM-MS-F51/F6	RM-MS-F51/F60-01				
Products and manufacturing process(es):	Open f	Open forged flange, Production route No.RM-MS-F51/F60-01, Rev. C/0				
Mandatory conditions and sub- contractors:	minimu Forging Forging quality Quency transfe maximu Externa	minimum 1000 ℃ Forging ratio Min.4 and cooling in water after forging Forgings shall be machined as close as possible to be final shape prior to quality heat treatment Quenching: in cold water with the temperature not exceed 40 ℃ and transferring materials from heat treatment furnace into quenching bath with a maximum of 60 seconds				
Other information: Qualification expires:	All test	All tests shall be performed in an ISO/IEC/17025 accredited laboratory.				
	Tested and	qualified th	ickness and	weight		
Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test pie weigh		
Open die flange	2018-093- 162W	105	115.5	196	392	
			tance signat			
Manufacturer: Roc-Master Piping Solutions Ltd.	Prepared by/Dat Zeven Jian April 16,2019	Zeven Jian	Checked by/Da Kevin Rao April 16,2019	becin		
NO	DRSOK M-650 for	supply of the abo	ve listed products	and materia	ne requirements of ls.	
Qualified/Accepted by TÜV Rheinland (China) L Unit 707, AVIC Building, I Road, Chaoyang District, Tel.: 010-65666660	y <i>(company name</i> td. No. 10B, Central Ro	e /address): pad, East 3rd Ring	Signature/Date April 16,2019	Shan	Jag 3	

Roc-Master®	Qualification Test Record (QTR) NORSOK M-650			QTR. No.: RM-QTR- 02		
Piping Solutions	Piping Solutions				Rev. No.:01	
Manufacturer name/address/ Web page:	Manufacturer Name: Roc-Master Piping Solutions Ltd. Address:Southeastern crossroad of road A105 and KeJiao Road, Hedong Industrial Park, Qingyuan District, Jian, Jiangxi, P. R. China Web Page:www.roc-master.com					
Reference standard	NORSOK Stan	NORSOK Standard M-650 Edition 4, September 2011				
Material designation and MDS No.:		ASTM A182 F53 (S32750), MDS D54 Rev.5				
Manufacturing Summary doc. No.:	RM-MS-F53-01	RM-MS-F53-01				
Products and manufacturing process(es):	Open f	Open forged flanges, Production route No.RM-MS-F53-01, Rev. C/0				
Mandatory conditions and sub- contractors:	 Initial forging temperature 1150 ℃ ~1170 ℃ and final forging temperature minimum 1000 ℃ Forging ratio Min.4 and cooling in water after forging Forgings shall be machined as close as possible to be final shape prior to quality heat treatment, Quenching: in cold water with the temperature not exceed 40 ℃ and transferring materials from heat treatment furnace into quenching bath with a maximum of 60 seconds External test laboratory: Zhangjiagang Haiyu Metallic Material Testing Co., Ltd. CNAS /ISO17025 accredited test lab, CNAS No. L4986 					
Other information: Qualification expires:		s shall be perform	ed in an ISO/IEC/	17025 accred	lited laboratory	
	Tested and	qualified th	ickness and	weight		
Products and	Test record	Tested	Qualified	Test piec	e Qualified	
manufacturing process(es):	No.	thickness mm	thickness mm	weight kg		
Open die flange	2018-093- 163W	97	97	191	382	
	Qualific	ation/accept	tance signat	ures		
Manufacturer: Roc-Master Piping Solutions Ltd.		7 011041 1 (347)		Checked by/Date: Kevin Rao April 16,2019		
The manufacturer	and this QTR are	evaluated and for	und to be in compl	iance with the	e requirements of	
This acceptance does	not exempt any p	urchaser from his	ve listed products responsibility to e variables of NOR	nsure that thi	qualification is valid	
Qualified/Accepted b	y (company name		Signature/Date	Shan	gatore	
TÜV Rheinland (China) L Unit 707, AVIC Building, Road, Chaoyang District, Tel.: 010-65666660	No. 10B, Central Ro	oad, East 3rd Ring R.China	April 16,2013	4	(2)	
	1			Ction Bo	dy	

Roc-Master®	Qualification Test Record (QTR) NORSOK M-650		TR)	QTR. No.: RM-QTR- 03			
Piping Solutions					Rev. No.:01		
Manufacturer name/address/ Web page:	Address:South Park, Qingyuar Web Page:ww	Manufacturer Name: Roc-Master Piping Solutions Ltd. Address:Southeastern crossroad of road A105 and KeJiao Road, Hedong Industrial Park, Qingyuan District, Jian, Jiangxi, P. R. China Web Page:www.roc-master.com					
Reference standard	NORSOK Stan	NORSOK Standard M-650 Edition 4, September 2011					
Material designation and MDS No.:		ASTM A182 F55(UNS S32760), MDS D54 Rev.5					
Manufacturing Summary doc. No.:	RM-MS-F55-01	RM-MS-F55-01					
Products and manufacturing process(es):	Open f	Open forged flanges, Production route No.RM-MS-F55-01 Rev. C/0					
Mandatory conditions and sub- contractors:	minimu Forging Forging quality Quenc transfe maxim Externs	 minimum 1000 ℃ Forging ratio Min.4 and cooling in water after forging Forgings shall be machined as close as possible to be final shape prior to quality heat treatment Quenching: in cold water with the temperature not exceed 40 ℃ and transferring materials from heat treatment furnace into quenching bath with a maximum of 60 seconds 					
Other information: Qualification expires:	April 15,2024	·	ickness and		dited laboratory.		
Products and	Test record	Tested	Qualified	Test pie	ce Qualified		
manufacturing process(es):	No.	thickness mm	thickness mm	weigh kg			
Open die flange	2018-093- 164W	99	99	184	368		
	Qualific	ation/accept	tance signat	ures			
Manufacturer: Roc-Master Piping	Prepared by/Date:		Checked by/Date: Kevin Rao April 16,2019				
NO This acceptance does	DRSOK M-650 for not exempt any p	supply of the abourchaser from his	und to be in complete listed products responsibility to elevariables of NOR	iance with the and material insure that it is SOL M-650.	ne requirements of		
Qualified/Accepted by TÜV Rheinland (China) L Unit 707, AVIC Building, I Road, Chaoyang District, Tel.: 010-65666660	td. No. 10B, Central Ro	oad, East 3rd Ring	Signature/Date	hang	Zago o		

Roc-Master® Priping Solutions	Qualification Test Record (QT NORSOK M-650			RM	R. No.: -QTR- 04 v. No.:01		
Manufacturer name/address/ Web page:	Manufacturer Name: Roc-Master Piping Solutions Ltd. Address:Southeastern crossroad of road A105 and KeJiao Road, Hedong Industrial Park, Qingyuan District, Jian, Jiangxi, P. R. China Web Page:www.roc-master.com						
Reference standard	NORSOK Stan	NORSOK Standard M-650 Edition 4, September 2011					
Material designation and MDS No.:	ASTM B564 N	ASTM B564 N06625; MDS N01 Revision 5					
Manufacturing Summary doc. No.:	RM-MS-N0662	RM-MS-N06625-01					
Products and manufacturing process(es):	Open f	Open forged flanges, Production route No.RM-MS-N06625-01 Rev.C/0					
Mandatory conditions and sub- contractors:	 Initial forging temperature 1120 ℃ ~1150 ℃ and final forging temperature minimum 1000 ℃ Forging ratio Min.4 and cooling in water after forging Forgings shall be machined as close as possible to be final shape prior to quality heat treatment Quenching: in cold water with the temperature not exceed 40 ℃ and transferring materials from heat treatment furnace into quenching bath with a maximum of 60 seconds External test laboratory: Zhangjiagang Haiyu Metallic Material Testing Co., Ltd. CNAS /ISO17025 accredited test lab, CNAS No. L4986 						
Other information:			ed in an ISO/IEC/				
Qualification expires	April 15,2024						
	Tested and	qualified th	ickness and	weight			
Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg		
Open die flange	2018-093- 165W	66	66	106	212		
	Qualific	ation/accept	tance signat	ures			
Manufacturer: Roc-Master Piping Solutions Ltd.	Prepared by/Da Zeven Jian April 16,2019		Checked by/Da Kevin Rao April 16,2019		20		

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.

This acceptance does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the essential variables of NORSOK M-650.

Qualified/Accepted by (company name /address):

TÜV Rheinland (China) Ltd.

Unit 707, AVIC Building, No. 10B, Central Road, East 3rd Ring Road, Chaoyang District, Beijing 100022, P.R.China

Tel.: 010-65666660

Signature/Date:

April 16,2019

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