
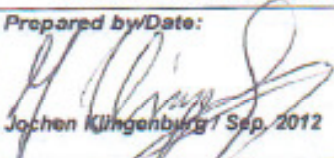
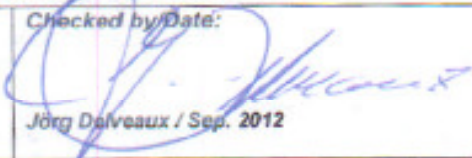
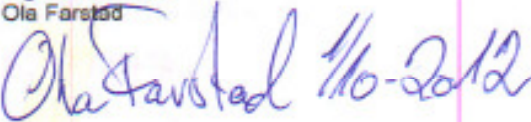
	Qualification Test Record (QTR) NORSOK M-650		QTR. No.: 002/M630r5D44/F51		
			Rev. No.:2		
Manufacturer name/address/ Web page:	Wilhelm Maass GmbH, Zache Ernestine 18, DE – 45141 Essen, Germany http://www.maassglobal.com				
Reference standard	NORSOK M-650, Edition 4				
Material designation and MDS No.:	ASTM A182 Gr. F51; MDS D44, Revision 4.				
Manufacturing Summary doc. No.:	WM_MS_OP_04_Manufacturing Summary_F51			Rev. No.:4	
Products and manufacturing process(es):	Products: All type of flanges up to 16" or 150 kg in finished weight Process: Closed die forgings				
Mandatory conditions and sub-contractors:	Test laboratory				
Other information:	Furnace working zone limited to 300mm height				
Qualification expires:	September 2017				
Tested and qualified thickness and weight					
Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg
WN 3" 2500lbs	9960	73	80	88	196
Bl.FI. 3" 2500lbs	9960BL	82	82	52	52
Qualification/acceptance signatures					
	Prepared by/Date:  Jochen Klingenberg / Sep. 2012		Checked by/Date:  Jörg Dalveaux / Sep. 2012		
	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) <div style="text-align: center; font-weight: bold; font-size: 1.2em;"> .VECTOR </div>			Signature/Date: Ola Farstad  1/10-2012		