## **MRC Global**

					QTR. No.: 3A	
NOF	SUN	IVI-03U E	aition 4	F	Rev. No.	0
		Cortenova - Le	ecco (LC) Italy			
Norsok M-650 Edition	n 4; Norsol	k M-630 Editio	on 7, ISO 17781:20	17, IOGP-	S-563 v.20	21
ASTM A 182 F55; MD	S D54 Rev	. 6; MDS DH54	4 Rev.1; MDS ID25	4/ID254S R	ev.2	
MS 21			Rev.No. 0			
FLANGED HUBS, VALVE THE QUALIFIED RAW SH	PARTS OR ( IAPE),	OTHER SPECIAL	L PIECES (OF FINAL C	WN), LINE BL GEOMETRY (	ANKS PARTS COMPATIBLE	S, WITH
Heat treatment loading	shall be acc	cording to meth	ods in sketches of M			
tests performed Janua	ry 2024.	No.	Para.9.3 performed u	nder witnes:	s by MRC EI	P – lates
February 2029 with MF	RC annual v	erification & re	newal as per point 4	below		
Tested and	Qualifie	d Thicknes	s and Weight			
. Test record No.		Tested thickness (mm)	Qualified thickness (mm)	weight	Qualifie	ed weight kg)
GP23-5375		200	200	254.2	A	\LL
Qualific	ation/ac	ceptance s	ignatures			
Ambrogio Melesi & C. S.r.l.	Prepared b	oy/Date:	Che	cked by/Date:	XZ	ea Bassi 2/2024
and this QTR are evaluated a acts and materials. loes not exempt any purchase s of NORSOK M-650. s executed and accepted by N	er from his res	sponsibility to ens	sure that this qualification	on is valid for upply of the al	his products v	vithin the
n MRC Global internal routines	s and proced	ures, the validity	of the qualification/acce	eptance is 1 y	ear from the i	
t none oncot, and willon the c		Qualified/Accented by (company name/address)				
v (company name/addre	sec).		Initial approval da	ate:	28/02	/2024
	sec).		Initial approval da Expiry date (annu Signature:			2/2024 2/2025
	Officine Ambrogio Me Largo de Vecchi 11 - www.melesi.it  Norsok M-650 Edition  ASTM A 182 F55; MD  MS 21  OPEN DIE FORGED SHAFLANGED HUBS, VALVE THE QUALIFIED RAW SHPRODUCTION ROUTE BY Heat treatment loading TT04 Rev.18 & NDT-UDH54)  • Heat treatment verificatests performed Janua • Melesi laboratory is accepted and  Tested and  Test record No.  GP23-5375  Qualification  Ambrogio Melesi & C. S.r.l.  Parks:  and this QTR are evaluated a lacts and materials.  Idoes not exempt any purchase of Norsok M-650.  se executed and accepted by Marchaser", and MRC Global internal routines.	NORSOK  Officine Ambrogio Melesi Largo de Vecchi 11 – 23813 – 6 www.melesi.it  Norsok M-650 Edition 4; Norsol  ASTM A 182 F55; MDS D54 Rev  MS 21  OPEN DIE FORGED SHAPE SUITABL FLANGED HUBS, VALVE PARTS OR THE QUALIFIED RAW SHAPE), PRODUCTION ROUTE BY OPEN DIE Heat treatment loading shall be acc TT04 Rev.18 & NDT-UT after heat DH54)  • Heat treatment verifications accord tests performed January 2024. • Melesi laboratory is accredited to February 2029 with MRC annual values  Tested and Qualifies  Test record No.  GP23-5375  Qualification/acc  Ambrogio Melesi & C. S.r.l. Prepared to tests and materials. Idoes not exempt any purchaser from his resist of NORSOK M-650. Is executed and accepted by MRC Global accurrence of the MRC Global internal routines and proced	Officine Ambrogio Melesi Largo de Vecchi 11 – 23813 – Cortenova - Lewww.melesi.it  Norsok M-650 Edition 4; Norsok M-630 Edition ASTM A 182 F55; MDS D54 Rev. 6; MDS DH54  MS 21  OPEN DIE FORGED SHAPE SUITABLE FOR SPECIAL FLANGED HUBS, VALVE PARTS OR OTHER SPECIAL FLANGED HUBS, VALVE	Largo de Vecchi 11 – 23813 – Cortenova - Lecco (LC) Italy www.melesi.it  Norsok M-650 Edition 4; Norsok M-630 Edition 7, ISO 17781:20  ASTM A 182 F55; MDS D54 Rev. 6; MDS DH54 Rev.1; MDS ID25  MS 21  OPEN DIE FORGED SHAPE SUITABLE FOR SPECIAL FLANGES (EXCEPT FLANGED HUBS, VALVE PARTS OR OTHER SPECIAL PIECES (OF FINAL OTHER QUALIFIED RAW SHAPE), PRODUCTION ROUTE BY OPEN DIE HYDRAULIC PRESSE (MS 21)  Heat treatment loading shall be according to methods in sketches of M TT04 Rev.18 & NDT-UT after heat treatment & before final machining DH54)  • Heat treatment verifications according to M-650 Para.9.3 performed utests performed January 2024. • Melesi laboratory is accredited to ISO 17025.  February 2029 with MRC annual verification & renewal as per point 4  **Tested and Qualified Thickness and Weight**  Tested and Qualified Thickness and Weight*  Test record No.  GP23-5375  Qualification/acceptance signatures  Ambrogio Melesi & C. S.r.l.  Prepared by/Date:  Qualified thickness (mm)  GP23-5375  Che  Che  Che  Cortenarks:  and this QTR are evaluated and found to be in compliance with the requirements of the compliance of the complianc	Officine Ambrogio Melesi Largo de Vecchi 11 – 23813 – Cortenova - Lecco (LC) Italy www.melesi.it  Norsok M-650 Edition 4; Norsok M-630 Edition 7, ISO 17781:2017, IOGP- ASTM A 182 F55; MDS D54 Rev. 6; MDS DH54 Rev.1; MDS ID254/ID254S R MS 21  OPEN DIE FORGED SHAPE SUITABLE FOR SPECIAL FLANGES (EXCEPT WN), LINE BI FLANGED HUBS, VALVE PARTS OR OTHER SPECIAL PIECES (OF FINAL GEOMETRY OF THE QUALIFIED RAW SHAPE), PRODUCTION ROUTE BY OPEN DIE HYDRAULIG PRESSE (MS 21) Heat treatment loading shall be according to methods in sketches of Melesi heat tr TT04 Rev.18 & NDT-UT after heat treatment & before final machining as per UT-0. DH54)  • Heat treatment verifications according to M-650 Para.9.3 performed under witness tests performed January 2024. • Melesi laboratory is accredited to ISO 17025.  February 2029 with MRC annual verification & renewal as per point 4 below  Tested and Qualified Thickness and Weight  Test record No.  Tested thickness (mm)  GP23-5375  Qualification/acceptance signatures  Ambrogio Melesi & C. S.r.I.  Prepared by/Date:  Otherwise that this qualification is valid for so f NORSOK M. 650.  See executed and accepted by MRC Global as "Qualifying Company" solely for the supply of the all urchaser", and MRC Global internal routines and procedures, the validity of the qualification/acceptance is 1 y	NORSOK M-650 Edition 4  Rev. No.  Officine Ambrogio Melesi Largo de Vecchi 11 – 23813 – Cortenova - Lecco (LC) Italy www.melesi.it  Norsok M-650 Edition 4; Norsok M-630 Edition 7, ISO 17781:2017, IOGP-S-563 v.20  ASTM A 182 F55; MDS D54 Rev. 6; MDS DH54 Rev.1; MDS ID254/ID254S Rev.2  MS 21  Rev.No. 0  OPEN DIE FORGED SHAPE SUITABLE FOR SPECIAL FLANGES (EXCEPT WN), LINE BLANKS PART: FLANGED HUBS, VALVE PARTS OR OTHER SPECIAL PIECES (OF FINAL GEOMETRY COMPATIBLE THE QUALIFIED RAW SHAPE), PRODUCTION ROUTE BY OPEN DIE HYDRAULIC PRESSE (MS 21)  Heat treatment loading shall be according to methods in sketches of Melesi heat treatment pro TT04 Rev. 18 k NDT-UT after heat treatment & before final machining as per UT-02 (only for M DH54)  • Heat treatment verifications according to M-650 Para.9.3 performed under witness by MRC El tests performed January 2024. • Melesi laboratory is accredited to ISO 17025.  February 2029 with MRC annual verification & renewal as per point 4 below  Tested and Qualified Thickness and Weight  Test record No.  Tested Tickness and Weight  Test record No.  Qualification/acceptance signatures  Ambrogio Melesi & C. S.r.l.  Prepared by/Date:  Andre 26/02/2024  Andre

Note: QTR is updated to Rev.4 as part of 5 years renewal to M-650 Ed.4.