Qualification Test Record NORSOK M-650 Edition 4					R. No.:	1	
HIGGSI				Rev	v. No.	9	
Manufacturer name/address/ Web page:	Officine Ambrogio Melesi Largo de Vecchi 11 – 2381 www.melesi.it	3 - Cortenova (L	.ecco) Italy				
Reference standard	Norsok M-650 Edition 4; Nors	sok M-630 Edition	7, ISO 17781	:2017, IOGP-	S-563 v.2	2021	
Material designation and MDS No.:	ASTM A 182 F51/F60 S3180 MDS ID144/ID144S Rev.1	ASTM A 182 F51/F60 S31803/S32205; MDS D44 Rev.6; MDS DH44 Rev.1; MDS ID144/ID144S Rev.1					
Manufacturing summary doc. No.:	MS 01 - MS 02 - MS 03 - N	MS 04 – MS 05		Last	Revision	7	
Products and manufacturing process(es):	BLINDS, SPECIAL PIECES, PRO CLOSE DIE FORGED FLANGES BLINDS, SPECIAL PIECES, PRO OPEN DIE FORGED FLANGES BLINDS, SPECIAL PIECES, PRO OPEN DIE FORGED FLANGES BLINDS, SPECIAL PIECES, PRO RING ROLLED WN FLANGES, F	SALL TYPES, HUBS, DUCTION ROUTE FALL TYPES, HUBS, SODUCTION ROUTE FALL TYPES, HUBS, SODUCTION ROUTE FOURS, SPECTACLE IN	, SPECTACLE BI BY CLOSE DIE H SPECTACLE BLI BY OPEN DIE HY SPECTACLE BLI BY OPEN DIE HA BLIND, RING SP	LIND, RING SPAIAMMER FORG ND, RING SPAIDRAULIC PRE ND, RING SPAIMMER FORGII ACERS, SPECI	ACERS AN BING (MS C CERS AND BSSE (MS C CERS AND NG (MS 04	ND 02) D 03) D D	
Mandatory conditions and sub-contractors:	 Heat treatment loading shall be according to methods in sketches of Melesi heat treatment procedure TT04 L.R. NDE Ultrasonic test for compliance to MDS DH54 shall be according to Melesi NDT UT-02 procedure L.R. 						
Other information:	 Heat treatment verifications according to M-650 Para.9.3 performed under witness by MRC EP – latest tests performed November 2016. Melesi laboratory is accredited to ISO17025. 						
Qualification Expires:	December 2026 with MRC annua	I verification & renew	al as per point 4	below			
	Tested and Qualifie	d Thickness a	and Weight				
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified (k	d weigh (g)	
SCREW AND MAXI PRESS (MS 01)	13795-34103-34104-34105- 34106-75224-81248-143619	82.6	90.8	95	N.	/A	
CLOSE DIE HAMMER (MS 02)	13792-34228-38160- 127263-143800	185	185	950	N.	/A	
OPEN DIE HYDRAULIC PRES (MS 03)		124	124	303	N.	/A	
OPEN DIE HAMMER FORGIN (MS 04)	IG 34403-72878	54	59.4	60	N.	/A	
FORGING AND RING (MS 05)	34404-143802-143803	203.2	203.2	205	N.	/A	
· - /	Qualification/ac	ceptance sigr	natures				
Manufacturer:	Prepared by/Date: Alfredo 14.05.2024. Randazzo	Checked by Andrea Bassi		XZ			

- 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 1. 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 2. variables of NORSOK M-650.
- This qualification is executed and accepted by MRC Global as "Qualifying Company" solely for the supply of the above listed products to MRC 3. Global as "Purchaser", and MRC Global assumes no liability for the use of or reliance on this qualification/ acceptance by other purchasers.
- In accordance with MRC Global internal routines and procedures, the validity of the qualification/acceptance is 1 year from the initial signing of the 4. QTR front sheet, after which the qualification/acceptance is subject to annual verification and renewal.

Qualified/Accepted by (company name/address):

MRC Global Norway AS

Initial approval date: 06.12.2021 Expiry date (annual renewal): 06.12.2024

Note: QTR is updated Gam49s FAROYS years renewal to M-650 Ed.4.
4033 STAVANGER

Signature: Mika Buxleukul
Ben Tener JUS



Qualification Test Record NORSOK M-650 Edition 4					. No.: . No.	1A 0	
Manufacturer name/address/ Web page:	Officine Ambrogio Largo de Vecchi 1 www.melesi.it		ortenova (Lecco)	Italy			
Reference standard	Norsok M-650 Edi	tion 4; Norsok	M-630 Edition 7;	ISO 17781:20	17; IOGP S-5	63	
Material designation and MDS No.:	ASTM A 182 F51/	F60; MDS D44	Rev.6; MDS DH	144 Rev.1; MDS	S ID144/ID14	4S Rev.01	
Manufacturing summary doc. No.:	MS 23				Last	Revision	
Products and manufacturing process(es):	OPEN DIE FORGED BLANKS PARTS, FLA CAMPATIBLE WITH ROLLING (MS23)	ANGED HUBS, VA	ALVE PARTS OR OT	HER SPECIAL PIE	CES (OF FINAL	. GEOMETR	Y
Mandatory conditions and sub-contractors:	 Heat treatment loading shall be according to methods in sketches of Melesi heat treatment procedure TT04 L.R. NDE Ultrasonic test for compliance to MDS DH44 shall be according to Melesi NDT UT-02 procedure L.R. 						
Other information:	 Heat treatment verifical January 2024. Melesi laboratory is accepted. 			ned under witness b	y MRC EP – lates	t tests perforr	ned
Qualification Expires:	September 2029 with	annual verificatio	n & renewal as per p	oint 4 below			
	Tested ar	nd Qualified	l Thickness a	nd Weight			
Products and manufacturing process(es):	Test record	l No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified (kg)	
FORGING AND RING ROLLING (MS23)	GP23-539	99	300	300	2520	ALI	2
	Quali	fication/acc	eptance sign	atures			
Manufacturer: Officine	Ambrogio Melesi & C S.r.l.	Prepared by/Date.	Alfredo Randazzo	Checked by	/Date:	ndrea Bassi	X-

- 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.
- This qualification is executed and accepted by MRC Global as "Qualifying Company" solely for the supply of the above listed products to MRC Global as "Purchaser", and MRC Global assumes no liability for the use of or reliance on this qualification/ acceptance by other purchasers.
- In accordance with MRC Global internal routines and procedures, the validity of the qualification/acceptance is 1 year from the initial signing of the QTR front sheet, after which the qualification/acceptance is subject to annual verification and renewal.

Qualified/Accepted by (company name/address):

MRC Global Norway AS

Gamle Forusveien 53

4033 STAVANGER

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

Initial approval date:

01.09.2024

Expiry date (annual renewal): 01.09.2025

Signature: Mike Bux herker

melesi	Qualification Test Record NORSOK M-650 Edition 4				R. No.:	7	
Manufacturer name/address/ Web page:	Officine Ambrogio Melesi Largo de Vecchi 11 – 238 www.melesi.it		_ecco) Italy	Rev	Rev. No. 7		
Reference standard	Norsok M-650 Edition 4; N	lorsok M-630 Editior	7, ISO 17781	:2017, IOGP-	S-563 v.2	2021	
Material designation and MDS No.:	ASTM A 182 F44 S31254;	MDS R14 Rev.6; M	DS IR144/IR1	44S Rev.1			
Manufacturing summary doc. No.:	MS 06 - MS 07 - MS 08 -	- MS 09 - MS 10		Last	Revision	7	
Products and manufacturing process(es):	 CLOSE DIE FORGED FLANG BLINDS, SPECIAL PIECES, F CLOSE DIE FORGED FLANG BLINDS, SPECIAL PIECES, F OPEN DIE FORGED FLANGE BLINDS, SPECIAL PIECES, F OPEN DIE FORGED FLANGE BLINDS, SPECIAL PIECES, F RING ROLLED WN FLANGES PRODUCTION ROUTE BY FC 	PRODUCTION ROUTE I SES ALL TYPES, HUBS PRODUCTION ROUTE I PRODUCTION ROUTE I SES ALL TYPES, HUBS, I PRODUCTION ROUTE I SES, HUBS, SPECTACLE	BY SCREW PRE, SPECTACLE BI BY CLOSE DIE H SPECTACLE BLI BY OPEN DIE HY SPECTACLE BLI BY OPEN DIE HA BLIND, RING SP	SSE AND MAXI LIND, RING SPA IAMMER FORG IND, RING SPA /DRAULIC PRE IND, RING SPA AMMER FORGII ACERS, SPECI	PRESSE ACERS AND ING (MS 0) CERS AND (SSE (MS 0) CERS AND MS 0) CERS AND MS 09	(MS 06) ID)7))))))))	
Mandatory conditions and sub-contractors:	 Heat treatment loading shall be according to methods in sketches of Melesi heat treatment procedure TT04 L.F. NDE Ultrasonic test, only for compliance to supplementary client request, shall be according to Melesi NDT UT-02 procedure L.R. 						
Other information:	 Heat treatment verifications according to M-650 Para.9.3 performed under witness by MRC EP – latest tests performed November 2016. Melesi laboratory is accredited to ISO17025. 						
Qualification Expires:	December 2026 with MRC ann	nual verification & renew	al as per point 4	below			
	Tested and Qualif	ied Thickness a	and Weight				
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified (kạ	-	
SCREW AND MAXI PRESS (MS 06)	34265-34284-77648	55.6	61.2	36	7.	2	
CLOSE DIE HAMMER (MS 07)	34455-74337-127575	184.1	184.1	950	N/	/A	
OPEN DIE HYDRAULIC PRES (MS 08)	SS 16884-34562	123.8	123.8	400	N/	/A	
OPEN DIE HAMMER FORGIN (MS 09)	G 34856-77381	54	59.4	38	7	6	
FORGING AND RING (MS 10)	34858-74338	161.9	161.9	950	N/	/A	
,	Qualification/a	cceptance sign	natures				
Manufacturer:	Prepared by/Date: Alfredo 14.05.2024. Randazzo	Checked by Andrea Bassi		X3			

- 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.
- This qualification is executed and accepted by MRC Global as "Qualifying Company" solely for the supply of the above listed products to MRC 3. Global as "Purchaser", and MRC Global assumes no liability for the use of or reliance on this qualification/ acceptance by other purchasers.
- In accordance with MRC Global internal routines and procedures, the validity of the qualification/acceptance is 1 year from the initial signing of the QTR front sheet, after which the qualification/acceptance is subject to annual verification and renewal.

Initial approval date: 06.12.2021 Expiry date (annual renewal): 06.12.2024

Signature: My ka Ben leukel

Qualified/Accepted by (company name/address):

MRC Global Norway

Note: QTR is updated @ Barning Fart bits years renewal to M-650 Ed.4.

4033 STAVANGER

Qualification Test Record NORSOK M-650 Edition 4					R. No.:	3	
IIIGGSI	TRACTION TO THE PROPERTY OF TH		Rev	v. No.	8		
Manufacturer name/address/ Web page:	Officine Ambrogio Meles Largo de Vecchi 11 – 23 <u>www.melesi.it</u>		.ecco) Italy				
Reference standard	Norsok M-650 Edition 4	; Norsok M-630 Editi	on 7, ISO 1778	31:2017, IOG	P-S-563	v.2021	
Material designation and MDS No.:	ASTM A 182 F55 S32760 MDS ID254/ID254S Rev.2		DS DH54 Rev	.1;			
Manufacturing summary doc. No.:	MS 11 - MS 12 - MS 13	– MS 14 – MS 15		Last	Revision	1	
Products and manufacturing process(es):	BLINDS, SPECIAL PIECES, I CLOSE DIE FORGED FLANCE BLINDS, SPECIAL PIECES, I OPEN DIE FORGED FLANGE BLINDS, SPECIAL PIECES, I OPEN DIE FORGED FLANGE BLINDS, SPECIAL PIECES, I RING ROLLED WN FLANGES PRODUCTION ROUTE BY F	GES ALL TYPES, HUBS, PRODUCTION ROUTE EES ALL TYPES, HUBS, SPRODUCTION ROUTE EES ALL TYPES, HUBS, SPRODUCTION ROUTE ES, HUBS, SPECTACLE I	SPECTACLE BI 3Y CLOSE DIE H SPECTACLE BLI 3Y OPEN DIE HY SPECTACLE BLI 3Y OPEN DIE HA BLIND, RING SP	LIND, RING SPAIAMMER FORG IND, RING SPAI /DRAULIC PRE IND, RING SPAI IMMER FORGII ACERS, SPECI	ACERS AN HING (MS 1 CERS AND SSE (MS 1 CERS AND NG (MS 14	ID 2) 0 13) 0	
Mandatory conditions and sub-contractors:	 Heat treatment loading shall be according to methods in sketches of Melesi heat treatment procedure TT04 L.R. NDE Ultrasonic test for compliance to MDS DH54 shall be according to Melesi NDT UT-02 procedure L.R. 						
Other information:	 Heat treatment verifications at tests performed November 20 Melesi laboratory is accredited 	116.	9.3 performed un	der witness by N	/IRC EP – I	latest	
Qualification Expires:	December 2025 with MRC an	nual verification & renew	al as per point 4	below			
	Tested and Qualif	ied Thickness a	and Weight				
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified (k		
SCREW AND MAXI PRESS (MS 11)	34405-34537-34538	82.6	82.6	95	19	90	
CLOSE DIE HAMMER (MS 12)	34543-74051	184.1	184.1	950	Al	LL	
OPEN DIE HYDRAULIC PRES (MS 13)	34632	165	165	650	Al	LL	
OPEN DIE HAMMER FORGIN (MS 14)	IG 34633-74052	54	59.4	60	12	20	
FORGING AND RING (MS 15)	34634	203.2	203.2	2050	N	Α	
	Qualification/a	acceptance sign	natures				
	Prepared by/Date:	Checked by					

- 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 1. 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 2. variables of NORSOK M-650.
- This qualification is executed and accepted by MRC Global as "Qualifying Company" solely for the supply of the above listed products to MRC Global as "Purchaser", and MRC Global assumes no liability for the use of or reliance on this qualification/ acceptance by other purchasers.
- In accordance with MRC Global internal routines and procedures, the validity of the qualification/acceptance is 1 year from the initial signing of the 4. QTR front sheet, after which the qualification/acceptance is subject to annual verification and renewal.

Qualified/Accepted by (company name/address):

MRC Global Norway

Note: QTR is updated to Real Part of 5 years renewal to M-650 Ed.4.

4033 STAVANORUM M-650 Ed.4.

Initial approval date:

Expiry date (annual renewal): 06.12.2024
Signature: Mika Burlenkul

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Qualification Test Record NORSOK M-650 Edition 4						QTR. No.: 3A			
meles	melesi NORSON IVI-030 Edition 4					Rev. No.	0		
Manufacturer name/address/ Web page:		Officine Ambrogio Me Largo de Vecchi 11 – <u>www.melesi.it</u>		Cortenova - Le	ecco (LC) Italy				
Reference standard		Norsok M-650 Editior	4; Norsol	k M-630 Editio	on 7, ISO 17781:20	017, IOGF	P-S-563 v.20	21	
Material designation MDS No.:	and	ASTM A 182 F55; MD	S D54 Rev	. 6; MDS DH54	4 Rev.1; MDS ID25	64/ID254S	Rev.2		
Manufacturing sumn doc. No.:	nary	MS 21				F	Rev.No.)	
Products and manufacturing proce	ess(es):	FLANGED HUBS, VALVE THE QUALIFIED RAW SH	OPEN DIE FORGED SHAPE SUITABLE FOR SPECIAL FLANGES (EXCEPT WN), LINE BLANKS PARTS, FLANGED HUBS, VALVE PARTS OR OTHER SPECIAL PIECES (OF FINAL GEOMETRY COMPATIBLE WITH THE QUALIFIED RAW SHAPE), PRODUCTION ROUTE BY OPEN DIE HYDRAULIC PRESSE (MS 21)						
Mandatory condition sub-contractors:	s and	Heat treatment loading TT04 Rev.18 & NDT-UT DH54)	shall be acc	cording to meth	ods in sketches of M				
Other information:		 Heat treatment verifica tests performed Janua Melesi laboratory is accepted. 	ry 2024.	100 m	Para.9.3 performed u	ınder witne	ss by MRC E	P – lates	
Qualification expires	:	February 2029 with MF	RC annual v	erification & re	newal as per point 4	below			
		Tested and	Qualifie	d Thicknes	s and Weight				
Products and manufacturing proce	5.000 100	Test record No.		Tested thickness (mm)	Qualified thickness (mm)	Test pie weigh (kg)	t Qualiii	ed weigh (kg)	
OPEN DIE BY HYDI PRESS (MS 2		GP23-5375		200	200	254.2	2 /	ALL	
		Qualifica	ation/ac	ceptance s	ignatures				
Manufacturer:	Officine A	mbrogio Melesi & C. S.r.l.	Prepared b	oy/Date:	do Randazzo Che 6/02/2024	ecked by/Dat	e:	ea Bassi 12/2024	
above liste This acceptessential v	facturer a ed produc otance do variables o	nrks: nd this QTR are evaluated a ts and materials. es not exempt any purchase of NORSOK M-650. executed and accepted by M	r from his res	sponsibility to ens	sure that this qualificati	on is valid fo	r his products	within the	
MRC Glob purchasers	al as "Pu	rchaser", and MRC Global a	ssumes no li	ability for the use	of or reliance on this o	ualification/	acceptance by	other	
 In accorda 	nce with	MRC Global internal routines	and proced	ures the validity				nitiai	
signing of	the QTR	MRC Global internal routines front sheet, after which the q	ualification/a					nitiai	
signing of	the QTR	front sheet, after which the q	ualification/a		ject to annual verificati Initial approval d	on and renev	wal. 28/02	2/2024	
signing of	the QTR	front sheet, after which the q	ualification/a		ject to annual verificati	on and renev	wal. 28/02		

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

Qualification Test Record NORSOK M-650 Edition 4				R. No.:	4			
meiesi	NONOO	IX IVI-000 Edi	uon 4	Rev	v. No.	7		
Manufacturer name/address/ Web page:	Officine Ambrogio Meles Largo de Vecchi 11 – 23 www.melesi.it		Lecco) Italy					
Reference standard	Norsok M-650 Edition 4; N	Norsok M-630 Edition	7, ISO 17781	:2017, IOGP-	S-563 v.2	2021		
Material designation and MDS No.:		ASTM A 182 F53 S32750; MDS D54 Rev.6; MDS DH54 Rev.1; MDS ID254/ID254S Rev.2						
Manufacturing summary doc. No.:	MS 16 - MS 17 - MS 18	– MS 19 – MS 20		Last	Revision	7		
Products and manufacturing process(es):	BLINDS, SPECIAL PIECES, FOR CLOSE DIE FORGED FLANCE BLINDS, SPECIAL PIECES, FOR OPEN DIE FORGED FLANGE BLINDS, SPECIAL PIECES, FOR OPEN DIE FORGED FLANGE BLINDS, SPECIAL PIECES, FOR RING ROLLED WN FLANGES PRODUCTION ROUTE BY FORGED FLANGES	GES ALL TYPES, HUBS, PRODUCTION ROUTE EES ALL TYPES, HUBS, SPRODUCTION ROUTE EES ALL TYPES, HUBS, SPRODUCTION ROUTE ES, HUBS, SPECTACLE I	, SPECTACLE BI 3Y CLOSE DIE H SPECTACLE BLI 3Y OPEN DIE HY SPECTACLE BLI 3Y OPEN DIE HA BLIND, RING SP	LIND, RING SPA IAMMER FORG ND, RING SPA 'DRAULIC PRE ND, RING SPA IMMER FORGII ACERS, SPECI	ACERS AN BING (MS 1 CERS ANE SSE (MS 1 CERS ANE NG (MS 19	ID 7) 0 118) 0		
Mandatory conditions and sub-contractors:	 Heat treatment loading shall be according to methods in sketches of Melesi heat treatment procedure TT04 L.R. NDE Ultrasonic test for compliance to MDS DH54 shall be according to Melesi NDT UT-02 procedure L.R. 							
Other information:	 Heat treatment verifications at tests performed November 20 Melesi laboratory is accredited 	16.	9.3 performed und	der witness by N	IRC EP – I	atest		
Qualification Expires:	December 2026 with MRC an	nual verification & renew	al as per point 4	pelow				
	Tested and Qualif	ied Thickness a	and Weight					
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified (kạ	-		
SCREW AND MAXI PRESS (MS 16)	34635-34636	82.6	82.6	95	19	90		
CLOSE DIE HAMMER (MS 17)	34637-73659-126547	184.1	184.1	950	N/	/A		
OPEN DIE HYDRAULIC PRES (MS 18)	SS 34638	165	162	650	N/	/A		
OPEN DIE HAMMER FORGIN (MS 19)	IG 34750-73660	54	59.4	60	12	20		
FORGING AND RING (MS 20)	34751	203.2	203.2	2050	N/	/A		
	Qualification/a	acceptance sign	natures					
Manufacturer:	Checked by Andrea		XZ					

- 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 2. variables of NORSOK M-650.
- This qualification is executed and accepted by MRC Global as "Qualifying Company" solely for the supply of the above listed products to MRC Global as "Purchaser", and MRC Global assumes no liability for the use of or reliance on this qualification/ acceptance by other purchasers.
- In accordance with MRC Global internal routines and procedures, the validity of the qualification/acceptance is 1 year from the initial signing of the QTR front sheet, after which the qualification/acceptance is subject to annual verification and renewal.

Qualified/Accepted by (company name/address):

MRC Global Norway AS

Gamle Forusveien 53

Note: QTR is updated to Rey Sar Nat ANGE Rnewal to M-650 Ed.4.

Initial approval date: Expiry date (annual renewal): 06.12.2024

Signature: Milea Bux weeker

Bux Temple

ambrogio		Qualification Test Record					G	TR. No	: 4A
mele	melesi NORSOK M-650 Edition 4				Rev	. No.	0		
Manufacturer name/address/ Web page:		Officine Ambrogio Me Largo de Vecchi 11 – www.melesi.it		Cortenova - L	ecco (LC) Ti	taly			
Reference standa	rd	Norsok M-650 Edition	1 4; Norsok	M-630 Edition	on 7, ISO 17	781:201	7, IOGP-S-5	63 v.202	21
Material designati MDS No.:	on and	ASTM A 182 F53; MD	S D54 Rev.	6; MDS DH5	4 Rev.1; MD	S ID254/I	D254S Rev.	2	
Manufacturing sui doc. No.:	mmary	MS 22					Rev.I	Vo. 0	
Products and manufacturing pro		OPEN DIE FORGED SHA FLANGED HUBS, VALVE THE QUALIFIED RAW SH PRODUCTION ROUTE B' Heat treatment loading TT04 Rev.18 & NDT-U	PARTS OR C IAPE), Y OPEN DIE I shall be acc	OTHER SPECIA HYDRAULIC PR ording to meth	L PIECES (OF RESSE (MS 22) lods in sketch	FINAL GEO	OMETRY COM	ment proc	with
Other information:	,	 DH54) Heat treatment verificatests performed Janua Melesi laboratory is ac 	ry 2024.		Para.9.3 perfo	ormed und	ler witness by	MRC EP	' – late
Qualification expir	es:	February 2029 with MF			newal as per	point 4 be	elow		
		Tested and	Qualified	d Thicknes	s and We	eight			
Products a manufacturing pro		Test record No.	e e e e e e e e e e e e e e e e e e e	Tested thickness (mm)	Qualified thi (mm)	No. of the Control of	Test piece weight (kg)	Qualifie (k	d weigh (g)
OPEN DIE BY HY PRESS (MS		GP23-5384		200	200		254.2	A	LL
		Qualific	ation/acc	eptance s		S			
Manufacturer:	Officine A	Ambrogio Melesi & C. S.r.l.	Prepared by	v/Date: W/	do Randazzo 6/02/2024	Check	ed by/Date		a Bassi 2/2024
	nufacturer a	arks: and this QTR are evaluated a ats and materials.	and found to b	e in compliance	with the requir	ements of I	NORSOK M-65	0 for supp	ly of the
 This accessentians This quantum 	ceptance do al variables alification is	es not exempt any purchase of NORSOK M-650. executed and accepted by N	MRC Global as	s "Qualifying Co	mpany" solely	for the supp	oly of the above	e listed pro	ducts to
purchas 4. In accor	ers. rdance with	rchaser", and MRC Global a	s and procedu	ıres, the validity	of the qualifica	ition/accept	ance is 1 year		
		front sheet, after which the c		cceptance is sub		000 Web 19		29/02	/2024
gaaiii ca/Ac	ALKC.	Hopay Inches	- 40/L		Initial app	rovar date	<i>;</i>	28/02/	2024

Expiry date (annual renewal): 28/02/1.

Signature: Miles Beix level

Sur Renef

28/02/2025

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

Gamle Forusveien 53

4033 STAVANGER

		cation Tes	st Record		No.: 5		
melesi	NORS	Edition 4	Rev.	Vo.: 5			
Manufacturer name/address/ Web page:	Officine Ambrogio Meles Largo de Vecchi 11 - 23		Lecco) Italy www.m	elesi.it			
Reference standard	Norsok M-650 Edition 4;	Norsok M-630:2	2020; ISO 17781:20	17; IOGP S-563	:2021		
Material designation and MDS No.:	ASTM B381 Gr.F-2;	MDS T24 Re	v.1; MDS IT104	/IT104S; GOS	T VT 1-0		
Manufacturing summary doc. No.:	TA 01 Rev.03 - TA 02	Rev.03 – TA 0	3 Rev.02- TA 04	Rev.02			
Products and manufacturing process(es):	AS FORGED PIECES FROM: - CLOSE DIE FORGED FLANGES PIECES, RINGS AND BLINDS, I - CLOSE DIE FORGED FLANG PIECES, RINGS AND BLINDS F - RING ROLLED WN FLANGES PRODUCTION ROUTE BY FOR - OPEN DIE FORGED FLANGES PIECES, RINGS AND BLINDS F	PRODUCTION ROUTES ALL TYPES, HUEPRODUCTION ROUT, HUBS, SPECTACLESING PRESSE AND SALL TYPES, HUBS	TE BY SCREW PRESSE A SS, SPECTACLE BLIND, I E BY CLOSE DIE HAMMI E BLIND, RING SPACERS RING ROLLING (TA 03) , SPECTACLE BLIND, RI	AND MAXI PRESSE (RING SPACERS AND ER FORGING (TA 02) 3, SPECIAL PIECES, I NG SPACERS AND B	TA 01) BLINDS, SPECIAL RINGS AND BLINDS LINDS, SPECIAL		
Mandatory conditions and sub-contractors:	Base material Suppliers: refer to attached list of titanium suppliers						
Other information:	Melesi laboratory is accredited to ISO17025 for mechanical Tests.						
Qualification Expires:	December 2024 with MR	C annual verific	ation & renewal as	per point 4 belov	/		
•	Tested and Qu	ualified Thick	ness and Weig	ıht			
Products and manufacturing process(es):	Test record No.	Max. Tested thickness (mm)	Max. Qualified thickness (mm)	Max. Test piece weight (kg)	Max. Qualified weight (kg)		
SCREW AND MAXI PRESSE (TA01)	57.877–57.878- 105097- 105098-105099-105360- 143615	36.5	45.6	11.7	23.4		
CLOSE DIE HAMMER (TA02)	57.879-105093-105361- 105363-143616-143617- 143618	63.5	79.3	53	106		
FORGING AND RING ROLLING (TA 03)	57.876-104866-105362	260	325	920	ALL		
OPEN DIE HYDRAULIC PRESSE (TA 04)	57.880-105092-105359	350	437	200	400		
		on/acceptan	ce signatures				
Manufacturer: Prepared by/Date: 30/11/2023 Alfredo Randazzo			Checked by/Date: 30/11/2023 Andrea Bassi				

- The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the 1. 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 2. essential variables of NORSOK M-650.
- This qualification is executed and accepted by MRC Global as "Qualifying Company" solely for the supply of the above listed products to MRC Global as "Purchaser", and MRC Global assumes no liability for the use of or reliance on this qualification/ acceptance by other
- 4. In accordance with MRC Energy Piping's internal routines and procedures, the validity of the qualification/acceptance is 1 year from the initial signing of the QTR front sheet, after which the qualification/acceptance is subject to annual verification and renewal.

Qualified/Accepted by (company name/address):

MRC Global Norway AS

Gamle Forusveien 53

Initial approval date:

31.10.2019 06.12.2024

Expiry date (annual renewal): 00
Signature: Mike Bux leady

4033 STAVANGER

	Qualification Test Record NORSOK M-650 Edition 4				₹. <i>No.:</i> 7			
melesi				Rev	. No.: 2			
Manufacturer name/address/ Webpage:	www.melesi.it	11 23813 Cortenova	a (Lecco) Italy	•				
Reference standard	Norsok M-650 Edi	ition 4						
Materiai designation and MDS No.:	ASTM A 182-19 F	F51/F60; NORSOK N	1630 Edition 6 MDS 0	044 Rev. 5				
Manufacturing summary doc. No.:	MS 21			Rev	. No.: 3			
Products and manufacturing process(es):	OPEN DIE SPECI	OPEN DIE SPECIAL PIECES AND VALVE BODY MANUFACTURED WITH FORGING PRESSE						
Mandatory conditions and sub-contractors:	Heat treatment loa procedure TT04 B furnace Nr. 6	nding shall be accordi ODY Rev.3, test sam	ng to staking Method pling to be agreed in	ls 4 defined in Meles case by case, Heat	si heat treatment treatment using			
Other information:	Valid for forgings v 200 mm	Valid for forgings with premachined bore before heat treatment with max heat treatment thickness 200 mm						
Qualification expires :	November .2024							
	Teste	d and Qualified Thic	ckness 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 HYDRAULIC PRESS (MS 21)	96882	200	200	Rough forged weight 5500 kg, heat treated weight 2835 kg	NA			
	Qualific	ation/acceptance si	ignatures	£				
Manufacturer:	/			November 2019 EGGIO NELESI E (1) ETI P. I. LING L. MANAGER				
Remarks/Specia/ remarks	:							
 The manufacturer and the NORSOK M-650 for such as the control of the	this QTR are evaluate apply of the above list	ed and found to be in ed products and mate	compliance with the r	equirements of				
 This acceptance does r is valid for his products This qualification is acc treatment as described 	not exempt any purcha within the essential verted by REINERTSI	aser from his respons ariables of NORSOK	sibility to ensure that t (M-650.		heat			
Qualified/Accepted by (co	mpany name/address	s):	Signature date: 08	3.11.2019				
REINER	TSEN EW ENERGY		Stig G	Iråberg				

NEW ENERGY