

M	Qualification Test Record NORSOK M-650 Edition 4				QTR. No.: QTR-Q4 Rev. No.: 7	
M.E.G.A.						
Manufacturer name/address/ Web page:	M.E.G.A. S.p.A. Via C.A. Dalla Chie www.mega-spa.co		ite – Bergamo – Italy			
Reference standard	Norsok M-650 Edit	ion 4				
Material designation and MDS No.:	ASTM A182 F44 – Norsok M-630 - MI IOGP S563 - MDS	DS R14 Rev. 6				
Manufacturing summary doc. No.:	MS-FIT-F44			R	ev. No.: 2	
Products and manufacturing process(es):	Forged Body Valves, Forged Outlets, Forged Flanges (body and hub), Forged Steel Fittings according to ASME B16.11 Closed-die forging and machining					
Mandatory conditions and sub-contractors:	\$50.000 No. 20 No. 20 No. 20	a // Boeler Edelstal	nl // Cogne Acciai S adda 1225-1 or Gadd	•	ni // Italfond	
Other information:		cedure verification of 3-2013 and on 03-03		ed out under su	pervision of qualifying	
	Tested and	d Qualified Th	ickness and W	eight		
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece wei (kg)	ight Qualified weight (kg)	
Forged body valves	TC-000002-99-0037	78	78	8.5	17	
Forged outlets	TC-000002-13-0001	32.5	35.75	6	12	
Forged flanges – body	TC-000002-99-0037	36.5	40.15	12	24	
Forged flanges – hub	TC-000002-99-0037	80	80	12	24	
	Qualifi	cation/accept	ance signature	s		
Manufacturer:	Prepared by/Date: S. Rossi 05-Jul-2021	Jufh	Checked by/Date: M. Arrigoni 05-Jul-2021			

Remarks/Special remarks:

- 1. 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.
- 2. 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.
- 4. 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):

Gamle Forusveien 53

Initial approval date: 05-Jul-2018

Expiry date: 05-Jul-2023
Signature: Mike Sur length

NO-4033 STAVANGER



(M)			est Record		QTR.	No.: QTR-Q1
M.E.G.A.	NOF	RSOK M-6	50 Edition 4		Rev. I	No.: 7
Manufacturer name/address/ Web page:	M.E.G.A. S.p.A. Via C.A. Dalla Chie www.mega-spa.com		te – Bergamo – Italy			
Reference standard	Norsok M-650 Edit	ion 4				
Material designation and MDS No.:	ASTM A182 F51 a Norsok M-630 - ME IOGP S563 - MDS	OS D44 Rev. 6				
Manufacturing summary doc. No.:	MS-FIT-F51-F60				Rev. N	o.: 3
Products and manufacturing process(es):	Forged Body Valve according to ASME Closed-die forging	B16.11	Forged Flanges (bod	y and hub),	Forged	Steel Fittings
Mandatory conditions and sub-contractors:	Starting material su Acerlava – Aceria of BGH Edelstahlwerk Foroni // Italfond	upplied by: de Alava // Acciaie de (Freital or Sieger // Olarra Aceros Ind M.E.G.A. furnace Ga	inal shape. Minimum erie Valbruna // ASC a) // Boeler Edelstah oxidables // Sandvik adda 1225-1 or Gadd	Siderurgio	a //	peciali //
Other information:	company on 13/-06	-2013 and on 03-03			er superv	ision of qualifying
Droducts and	l ested and	a Qualified Th	ickness and W	eignt		
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece (kg,		Qualified weight (kg)
Forged body valves	TC-000002-99-0037	78	85.8	8.5		17
Forged outlets	TC-000002-13-0001	32.5	35.75	6		12
Forged flanges – body	TC-000002-99-0037 TC-QTR-Q01-F51-OL	36.5	40.15	12		24
Forged flanges – hub	TC-000002-99-0037 TC-QTR-Q01-F51-OL	80	88	12		24
	Qualifi	cation/accept	ance signature	s		
Manufacturer:	Prepared by/Date: S. Rossi 05-Jul-2021	righ	Checked by/Date: M. Arrigoni 05-Jul-2021	N.		

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Qualified/Accepted by (company pame/address):

Gamle Forusveien 53 NO-4033 STAVANGER Initial approval date: 05-Jul-2018

Expiry date: 05-Jul-2023 Signature: Mike Buxley

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and the second s								
M	Qualification Test Record			G	QTR. No.: QTR-Q7			
M.E.G.A	NOR	NORSOK M-650 Edition 4			Rev. No.: 9			
Manufacturer name/address/ Web page:	M.E.G.A. S.p.A. Via C.A. Dalla Chies www.mega-spa.com	Via C.A. Dalla Chiesa 3, Scanzorosciate – Bergamo – Italy						
Reference standard	Norsok M-650 Edition	on 4						
Material designation and MDS No.:			5 D54 Rev. 6 - IOGP 630 MDS D53 Rev. 9		0254 Rev. 01 3 MDS ID253 Rev. 01			
Manufacturing summary doc. No.:	MS-FIT-F53			R	Rev. No.: 3			
Products and manufacturing process(es):	Forged Body Valves according to ASME Closed-die forging a	B16.11; Forged tee	orged Flanges (bodges up to 3" according	y and hub), Fo to ASME B16	orged Steel Fittings 3.9			
Mandatory conditions and sub-contractors:	(Freital or Siegen) // Heat treatment in M. Tests subcontracted	e Alava // Acciaierie Boeler Edelstahl // E.G.A. furnace Ga to MEGA-LAB	Cogne Acciai Speci	ali // Foroni // I a 1272-F2	Italfond // Sandvik			
Other information:	company on 13/-06-	edure verification o 2013 and on 03-03	f furnaces was carrie -2016	ed out under s	upervision of qualifying			
	Tested and	Qualified Th	ickness and W	eight				
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece we (kg)	eight Qualified weight (kg)			
Forged body valves	TC-000002-99-0038	78	78	8.5	17			
Forged outlets	TC-000002-13-0001	32.5	35.75	- 6	12			
Forged flanges – body	TC-000002-99-0038	36.5	40.15	12	24			
Forged flanges – hub	TC-000002-99-0038	80	80	12	24			
Forged Tees (B16.9)	TC-TEE-F53-QTR29-001	107	107	12	24			
	Qualific	ation/accepta	ance signature	s				
Manufacturer:	Prepared by/Date: S. Rossi 05-Jul-2021		Checked by/Date: M. Arrigoni 05-Jul-2021		a a			

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Qualified/Accepted by (company maine/address):

Gamle Forusveien 53 NO-4033 STAVANGER Initial approval date: 05-Jul-2018

Expiry date: 05-Jul-2023

Signature: Mike Buy

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M M _I E _I G _I A _I			est Record 50 Edition 4		QTR. I	No.: QTR-Q10 Io.: 8
Manufacturer name/address/ Web page:	M.E.G.A. S.p.A. Via C.A. Dalla Chie www.mega-spa.coi		ite – Bergamo – Italy			
Reference standard	Norsok M-650 Edit	ion 4				
Material designation and MDS No.:	ASTM A182 F55 – No IOGP S563 December					
Manufacturing summary doc. No.:	MS F55				Rev. N	o.: 9
Products and manufacturing process(es):	Forged Body Valve according to ASME Closed-die forging	B16.11	Forged Flanges (bod	y and hub),	Forged \$	Steel Fittings
Mandatory conditions and sub-contractors:	Starting material su Acerlava – Aceria o Boehler Edelstahl //	ipplied by: le Alava // Acciaieri / Cogne Acciai Spe 1.E.G.A. furnace Ga	inal shape. Minimum e Valbruna // BGH E ciali // Foroni // Italfo adda 1225-1 or Gado	delstahlwer nd // Sandvi	ke (Freita	al or Siegen) //
Other information:	Heat treatment proceeds company on 13/-06		of furnaces was carri 3-2016	ed out unde	r supervi	sion of qualifying
	Tested and	d Qualified Th	ickness and W	/eight		
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece (kg)	-	Qualified weight (kg)
Forged body valves	TC-VALV-F55-QTR Q10	78	78	8.5		17
Forged outlets	TC-OLET-F55-QTR Q10	32.5	35.75	6		12
Forged flanges – body	TC-FLNG-F55-QTR Q10	36.5	40.15	12		24
Forged flanges – hub	TC-FLNG-F55-QTR Q10	80	80	<u>12</u>		24
	Qualifi	cation/accept	ance signature	s		
Manufacturer:	Prepared by/Date: S. Rossi 05-Jul-2021	Call.	Checked by/Date: M. Arrigoni 05-Jul-2021	M		
Remarks/Special ren The manufacturer and the above listed products This acceptance does not the essential variables. This qualification is executed the second the	this QTR are evaluated ts and materials. not exempt any purchas	er from his responsibi	lity to ensure that this q	ualification is	valid for h	nis products within

to MRC Global as "Purchaser", and MRC Global assumes no liability for the use of or reliance on this qualification/ acceptance by

4. 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):

Gamle Forusveien 53

other purchasers.

NO 4033 STAVANGER

Initial approval date: 05-Jul-2018 Expiry date: 05-Jul-2023 Signature: Miko Ben level



M		Qualification Test Record NORSOK M-650 Edition 4			QTR. No.: QTR-Q13 Rev. No.: 7			
M.E.G.A	NOR							
Manufacturer name/address/ Web page:		M.E.G.A. S.p.A. Via C.A. Dalla Chiesa 3, Scanzorosciate – Bergamo – Italy www.mega-spa.com						
Reference standard	Norsok M-650 Edition	on 4						
Material designation and MDS No.:	ASTM B381 F2 – M	DS T24 Rev.1						
Manufacturing summary doc. No.:	MS-FIT-TI				Rev. No	o.: 3		
Products and manufacturing process(es):	Forged Body Valves according to ASME Closed-die forging a	B16.11	orged Flanges (bod	y and hub), I	Forged S	Steel Fittings		
Mandatory conditions and sub-contractors:	Acciaierie Valbruna No heat treatment: of furnace Gadda 1225	Starting material supplied by: Acciaierie Valbruna // Baoji Mingkun // Cogne Acciai Speciali No heat treatment: cooling in still air after forging. Alternatively: heat treatment in M.E.G.A. furnace Gadda 1225-1 or Gadda 1272-F2 Tests subcontracted to MEGA-LAB						
Other information:	Heat treatment proc company on 13/-06- Products supplied in be heat treated (ann	2013 and on 03-03 "as forged" conditi	-2016. on. If mechanical pro	perties are				
	Tested and	Qualified Th	ickness and W	eight				
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece ((kg)	weight	Qualified weigh (kg)		
Forged body valves	TC-VAL-TI-QTR Q13-001 TC-VAL-TI-QTR Q13-002	78	97.5	4.7		9.4		
Forged outlets	TC-MG-TI-QTR Q13-001 TC-MG-TI-QTR Q13-002	32.5	40.62	3.5		7		
Forged flanges – body	TC-FL-TI-QTR Q13-001 TC-FL-TI-QTR Q13-002	36.5	45.62	6.5		13		
Forged flanges – hub	TC-FL-TI-QTR Q13-001 TC-FL-TI-QTR Q13-002	80	100	6.5		13		
	Qualific	cation/accept	ance signature	S				
Manufacturer:	Prepared by/Date: S. Rossi 05-Jul-2021	1	Checked by/Date: M. Arrigoni					

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Qualified/Accepted by (company name/address):

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Expiry date: 05-Jul-2023
Signature: Miles Bux length