
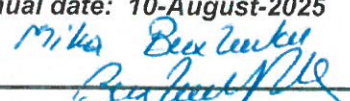
	<h2 style="margin: 0;">Qualification Test Record</h2> <h3 style="margin: 0;">NORSOK M-650 Edition 4</h3>				QTR. No.: QTR-Q4
					Rev. No.: 8
Manufacturer name/address/ Web page:	M.E.G.A. S.p.A. Via C.A. Dalla Chiesa 3, Scanzorosciate – Bergamo – Italy www.mega-spa.com				
Reference standard	Norsok M-650 Edition 4				
Material designation and MDS No.:	ASTM A182 F44 – Norsok M-630 - MDS R14 Rev. 6 IOGP S563 - MDS IR 114 Rev. 01				
Manufacturing summary doc. No.:	MS-FIT-F44				Rev. 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:	Pieces forged as close as possible to final shape. Minimum forging ratio 4:1 Starting material supplied by: Acciaierie Valbruna // Boeler Edelstahl // Cogne Acciai Speciali // Foroni // Italfond Heat treatment in M.E.G.A. furnace Gadda 1225-1 or Gadda 1272-F2 Tests subcontracted to MEGA-LAB				
Other information:	Heat treatment procedure verification of furnaces was carried out under supervision of qualifying company on 13/06-2013, 03-03-2016 and 21-11-2023				
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)
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
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: O. Qamar 05-Aug-2023	Checked by/Date: M. Arrigoni 05-Aug-2023			
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. 3. 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): MRC Global Norway AS Gamle Forusveien 53 4033 STAVANGER			Initial approval date: 05-August-2023 Expiry annual date: 05-August-2025 Signature: <i>Mika Børve</i>		


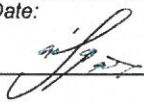
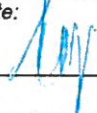
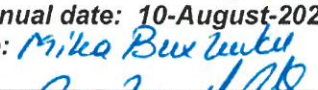
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M.E.G.A.	Qualification Test Record NORSOK M-650 Edition 4				QTR. No.: QTR-Q1	
					Rev. No.: 8	
Manufacturer name/address/ Web page:		M.E.G.A. S.p.A. Via C.A. Dalla Chiesa 3, Scanzorosciate – Bergamo – Italy www.mega-spa.com				
Reference standard		Norsok M-650 Edition 4				
Material designation and MDS No.:		ASTM A182 F51 and A182 F60 Norsok M-630 - MDS D44 Rev. 6 IOGP S563 - MDS ID 144 Rev. 01				
Manufacturing summary doc. No.:		MS-FIT-F51-F60			Rev. No.: 3	
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:		<p>Pieces forged as close as possible to final shape. Minimum forging ratio 4:1 Starting material supplied by:</p> <p>Acerlava – Aceria de Alava // Acciaierie Valbruna // ASO Siderurgica // BGH Edelstahlwerke (Freital or Siegen) // Boeler Edelstahl // Cogne Acciai Speciali // Feroni // Italfond // Olarra Aceros Inoxidables // Sandvik</p> <p>Heat treatment in M.E.G.A. furnace Gadda 1225-1 or Gadda 1272-F2</p> <p>Tests subcontracted to MEGA-LAB</p>				
Other information:		Heat treatment procedure verification of furnaces was carried out under supervision of qualifying company on 13/06-2013, 03-03-2016 and 21-11-2023				
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)
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
Qualification/acceptance signatures						
Manufacturer:		Prepared by/Date: O. Qamar 05-Aug-2023		Checked by/Date: M. Arrigoni 05-Aug-2023		
Remarks/Special remarks:						
<ol style="list-style-type: none"> 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. 3. 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): MRC Global Norway AS Gamle Forusveien 53 4033 STAVANGER				Initial approval date: 10-August-2023 Expiry annual date: 10-August-2025 Signature: <i>Mika Berleby</i> <i>Stein...</i>		


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	Qualification Test Record NORSOK M-650 Edition 4				QTR. No.: QTR-Q7
					Rev. No.: 10
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 4				
Material designation and MDS No.:	ASTM A182 F53 – Norsok M-630 MDS D54 Rev. 6 - IOGP S563 MDS ID254 Rev. 01 ASTM A815 UNS S32750 - Norsok M-630 MDS D53 Rev. 6 - IOGP S563 MDS ID253 Rev. 01				
Manufacturing summary doc. No.:	MS-FIT-F53				Rev. No.: 4
Products and manufacturing process(es):	Forged Body Valves, Forged Outlets, Forged Flanges (body and hub), Forged Steel Fittings according to ASME B16.11; Forged tees up to 3" according to ASME B16.9 Closed-die forging and machining				
Mandatory conditions and sub-contractors:	Pieces forged as close as possible to final shape. Minimum forging ratio 4:1 Starting material supplied by: Acerlava – Aceria de Alava // Acciaierie Valbruna // ASO Siderurgica // BGH Edelstahlwerke (Freital or Siegen) // Boeler Edelstahl // Cogne Acciai Speciali // Foroni // Italfond // Sandvik Heat treatment in M.E.G.A. furnace Gadda 1225-1 or Gadda 1272-F2 Tests subcontracted to MEGA-LAB				
Other information:	Heat treatment procedure verification of furnaces was carried out under supervision of qualifying company on 13/06-2013, 03-03-2016 and 21-11-2023				
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)
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
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: O. Qamar 30-Aug-2023	Checked by/Date: M. Arrigoni 30-Aug-2023			
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. 3. 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): MRC Global Norway AS Gamle Forusveien 53 4033 STAVANGER			Initial approval date: 10-August-2023 Expiry annual date: 10-August-2025 Signature: 		

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	Qualification Test Record NORSOK M-650 Edition 4				QTR. No.: QTR-Q10
					Rev. No.: 10
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 4				
Material designation and MDS No.:	ASTM A182 F55 – Norsok M-630 MDS D54 Rev.6 IOGP S563 December 2018 - MDS ID254 Rev. 01				
Manufacturing summary doc. No.:	MS F55	Rev. No.: 10			
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:	Pieces forged as close as possible to final shape. Minimum forging ratio 4:1 Starting material supplied by: Acerlava – Aceria de Alava // Acciaierie Valbruna // BGH Edelstahlwerke (Freital or Siegen) // Böhler Edelstahl // Cogne Acciai Speciali // Foroni // Italfond // Sandvik Heat treatment in M.E.G.A. furnace Gadda 1225-1 or Gadda 1272-F2 Tests subcontracted to MEGA-LAB				
Other information:	Heat treatment procedure verification of furnaces was carried out under supervision of qualifying company on 13/06-2013, on 03-03-2016 and on 22-11-2023				
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)
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	12	24
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: O. Qamar 01-Sep-2023 	Checked by/Date: M. Arrigoni 01-Sep-2022 			
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. 3. 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): MRC Global Norway AS Gamle Forusveien 53 4033 STAVANGER			Initial approval date: 10-August-2023 Expiry annual date: 10-August-2025 Signature: 		

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	Qualification Test Record		QTR. No.: QTR-Q13		
	NORSOK M-650 Edition 4		Rev. No.: 8		
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 4				
Material designation and MDS No.:	ASTM B381 F2 – MDS T24 Rev.1				
Manufacturing summary doc. No.:	MS-FIT-TI				Rev. No.: 3
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:	Pieces forged as close as possible to final shape. Minimum forging ratio 4:1 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 procedure verification of furnaces was carried out under supervision of qualifying company on 13-06-2013, 03-03-2016 and 08-11-2023 Products supplied in "as forged" condition. If mechanical properties are not achieved, they shall be heat treated (annealing and air cooling) in furnaces above indicated				
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)
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
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: O. Qamar 12-Dec-2023	Checked by/Date: M. Arrigoni 12-Dec-2023			
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. 3. This qualification is executed and accepted by MRC Global as "Qualifying Company" solely for the supply of the above listed products to MRC Energy Piping as "Purchaser", and MRC Energy Piping 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):			Initial approval date: 22-Dec-2023		
MRC Global Norway AS Gamle Forusveien 53 4033 STAVANGER			Expiry date: 22-Dec-2024 Signature: 