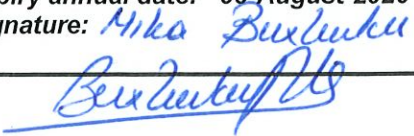


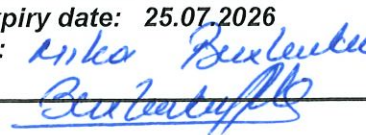
	Qualification Test Record NORSOK M-650 Edition 4		QTR. No.: QTR-Q1		
			Rev. No.: 9		
Manufacturer name/address/ Web page:	M.E.G.A. S.p.A. Via C.A. Dalla Chiesa 3, Scanzorosciate – Bergamo – Italy www.mega-spa.com				
Reference standard	Norsok M-650 Edition 4				
Material designation and MDS No.:	ASTM 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:	Pieces forged as close as possible to final shape. Minimum forging ratio 4:1 Starting material supplied by: Acerlva – Aceria de Alava // Acciaierie Valbruna // ASO Siderurgica // BGH Edelstahlwerke (Freital or Siegen) // Boeler Edelstahl // Cogne Acciai Speciali // Foroni // Italfond // Olarra Aceros Inoxidables // 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 and on 03-03-2016				
Qualification expires:	10-August-2028				
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:					
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-2026 Signature:		

	Qualification Test Record NORSOK M-650 Edition 4				QTR. No.: QTR-Q4
					Rev. No.: 9
<i>Manufacturer name/address/ Web page:</i>	M.E.G.A. S.p.A. Via C.A. Dalla Chiesa 3, Scanzorosciate – Bergamo – Italy www.mega-spa.com				
<i>Reference standard</i>	Norsok M-650 Edition 4				
<i>Material designation and MDS No.:</i>	ASTM A182 F44 – Norsok M-630 - MDS R14 Rev. 6 IOGP S563 - MDS IR 114 Rev. 01				
<i>Manufacturing summary doc. No.:</i>	MS-FIT-F44				Rev. No.: 2
<i>Products and manufacturing process(es):</i>	Forged Body Valves, Forged Outlets, Forged Flanges (body and hub), Forged Steel Fittings according to ASME B16.11 Closed-die forging and machining				
<i>Mandatory conditions and sub-contractors:</i>	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				
<i>Other information:</i>	Heat treatment procedure verification of furnaces was carried out under supervision of qualifying company on 13/06-2013 and on 03-03-2016				
<i>Qualification expires:</i>	05-August-2028				
Tested and Qualified Thickness and Weight					
<i>Products and manufacturing process(es):</i>	<i>Test record No.</i>	<i>Tested thickness (mm)</i>	<i>Qualified thickness (mm)</i>	<i>Test piece weight (kg)</i>	<i>Qualified weight (kg)</i>
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					
<i>Manufacturer:</i>	<i>Prepared by/Date:</i> O. Qamar 05-Aug-2023		<i>Checked by/Date:</i> 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-2026 Signature: 		

	Qualification Test Record NORSOK M-650 Edition 4		QTR. No.: QTR-Q7		
			Rev. No.: 11		
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 and on 03-03-2016				
Qualification expires:	10-August-2028				
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-2026 Signature: <i>Mika Buxlenter</i>		

	Qualification Test Record NORSOK M-650 Edition 4		QTR. No.: QTR-Q10 Rev. No.: 11		
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) // Boehler 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				
Qualification expires:	10-August-2028				
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-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-2026 Signature: <i>Mika Bevilacqua</i>		

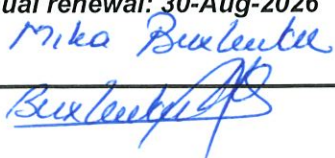
	Qualification Test Record NORSOK M-650 Edition 4		QTR. No.: QTR-Q13 Rev. No.: 9		
<i>Manufacturer name/address/ Web page:</i>	M.E.G.A. S.p.A. Via C.A. Dalla Chiesa 3, Scanzorosciate – Bergamo – Italy www.mega-spa.com				
<i>Reference standard</i>	Norsok M-650 Edition 4				
<i>Material designation and MDS No.:</i>	ASTM B381 F2 – MDS T24 Rev.1				
<i>Manufacturing summary doc. No.:</i>	MS-FIT-TI		Rev. No.: 3		
<i>Products and manufacturing process(es):</i>	Forged Body Valves, Forged Outlets, Forged Flanges (body and hub), Forged Steel Fittings according to ASME B16.11 Closed-die forging and machining.				
<i>Mandatory conditions and sub-contractors:</i>	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				
<i>Other information:</i>	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.. 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					
<i>Products and manufacturing process(es):</i>	<i>Test record No.</i>	<i>Tested thickness (mm)</i>	<i>Qualified thickness (mm)</i>	<i>Test piece weight (kg)</i>	<i>Qualified weight (kg)</i>
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					
<i>Manufacturer:</i>	<i>Prepared by/Date:</i> O. Qamar 12-Dec-2023		<i>Checked by/Date:</i> M. Arrigoni 12-Dec-2023		
Remarks/Special remarks: - 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 Energy Piping as "Purchaser", and MRC Energy Piping 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			Initial approval date: 22-Dec-2023 Expiry date: 22-Dec-2026 Signature: <i>Mike Burkenke</i> <i>Burkenke</i>		

	Qualification Test Record NORSOK M-650 Edition 4				QTR. No.: QTR-Q30 Rev. No.: 2	
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 F60 – MDS D44 Rev. 6 and MDS DH44 Rev.1 ASTM A815 UNS S31803/S32205 – MDS D43 Rev. 6 and MDS DH43 Rev.1				
Manufacturing summary doc. No.:		MS 12192-T6				Rev. No.: 3
Products and manufacturing process(es):		Forged tees 4" and above, up to 8" Closed-die forging and machining; refer to Flow Chart FC-Q30				
Mandatory conditions and sub-contractors:		Pieces forged to shape by Forgiatura Riganti. Minimum forging ratio 4:1. Starting material supplied by: refer to Raw Material Suppliers List SVL-Q30 Forgings up to 6" included heat treated solid (i.e. as forged). Forgings over 6" heat treated bored. Heat treatment by M.E.G.A. S.p.A – Furnace Gadda 1225-1 or Gadda 1272 F2 Production test carried out on carrot of the main run. The diameter of the carrot shall not exceed 130 mm				
Other information:		M.E.G.A. internal laboratory is accredited to ISO 17025. Heat treatment procedure verification of furnace Gadda 1225-1 was carried out under supervision of qualifying company 13/06/2013 and 03/03/2016 Mega heat treatment procedure verification of Furnace Gadda 1272 F2 was carried out 03/03/2016, witnessed by qualifying company. Verification was repeated and reviewed by qualifying company on 14/12/2016 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 tees		TC-TEE-F51-QTR Q30-001	175.3	175.3	74	148
Qualification/acceptance signatures						
Manufacturer:		Prepared by/Date: S. Rossi 18-Dec-2020		Checked by/Date: M. Arrigoni 18-Dec-2020		
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: 25.07.2025 Annual expiry date: 25.07.2026 Signature: 		

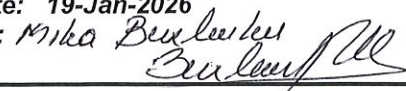
MRC Global

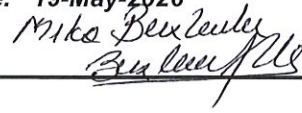
	Qualification Test Record NORSOK M-650 Edition 4				QTR. No.: QTR-Q34 Rev. No.: 2	
Manufacturer name/address/ Web page:		M.E.G.A. S.p.A. Via C.A. Dalla Chiesa 3, Scanzorosciate – Bergamo – Italy www.mega-spa.com				
Reference standard		Norsok M-650 Edition 4				
Material designation and MDS No.:		ASTM A182 F51 and F60 – MDS D44 Rev.6 and MDS DH44 Rev.1 ASTM A815 UNS S31803 and S32205 – MDS D43 Rev.6 6 and MDS DH43 Rev.1				
Manufacturing summary doc. No.:		MS T10-F51				Rev. No.: 2
Products and manufacturing process(es):		Forged tees 10" and above Closed-die forging and machining; refer to Flow Chart FC-Q34				
Mandatory conditions and sub-contractors:		Pieces forged to shape by Forgiatura Riganti. Minimum forging ratio 4:1 Starting material supplied by: refer to Raw Material Suppliers List SVL-Q34 Tees are forged in solid shape and heat treated bored. Heat treatment by : M.E.G.A. S.p.A – Furnace Gadda 1272 F2 Production test carried out on the carrot taken out from the forging main bore. Maximum carrot diameter 130 mm Tests subcontracted to MEGA-LAB (ISO 17025 accredited)				
Other information:		Mega heat treatment procedure verification was carried out 03/03/2016, witnessed by qualifying company. Verification was repeated and reviewed by qualifying company 14/12/2016 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 tees	TC-TEE-F51-QTR Q34-001	130	130	255	All	
Qualification/acceptance signatures						
Manufacturer:		Prepared by/Date: S. Rossi 18-Dec-2020		Checked by/Date: M. Arrigoni 18-Dec-2020		
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: 25.07.2025 Annual expiry date: 25.07.2026 Signature: <i>Mika Berntsen</i>		

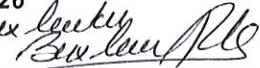
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	Qualification Test Record NORSOK M-650 Edition 4				QTR. No.: QTR-Q35
					Rev. No.: 3
Manufacturer name/address/ Web page:	M.E.G.A. S.p.A. Via C.A. Dalla Chiesa 3, Scanzorosciate – Bergamo – Italy www.mega-spa.com				
Reference standard	Norsok M-650 Edition 4				
Material designation and MDS No.:	ASTM A182 F51 and F60 – MDS D44 Rev.6				
Manufacturing summary doc. No.:	MS T30-F51				Rev. No.: 2
Products and manufacturing process(es):	Forged tees 30" and above. Open-die forging and machining;				
Mandatory conditions and sub-contractors:	Pieces forged to shape by Forgiatura Morandini. Minimum forging ratio 4:1 Starting material supplied by: Acerlava // Acciaierie Valbruna // BGH Edelstahlwerke (Freital or Siegen) // Böhler Edelstahl // Cogne Acciai Speciali // Foroni // Italfond // Sandvik Tees are forged in solid shape and heat treated bored. Heat treatment by: M.E.G.A. S.p.A – Furnace Gadda 1272 F2 or 1225/1 Production test carried out on the carrot taken out from the forging main bore. Maximum carrot diameter 650 mm				
Other information:	Mega heat treatment procedure verification was carried out 03/03/2016, witnessed by qualifying company. Verification was repeated and reviewed by qualifying company 14/12/2016 and on 22-11-2023				
Qualification expires:	30 August 2029				
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 tees	TC-TEE-F51-QTR Q35-001	350	350	3000	All
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: O. Qamar 26-May-2023	Checked by/Date: M. Arrigoni 18-May-2023			
Remarks/Special remarks: - 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 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			Initial approval date: 30-Aug-2024 Expiry annual renewal: 30-Aug-2026 Signature: 		

 M.E.G.A.	Qualification Test Record NORSOK M-650 Edition 4				QTR. No.: QTR-F51-FSG-TEE	
					Rev. No.: 0	
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 (UNS S31803) – MDS D44 Rev.6 ASTM A815 UNS S31803 – MDS D43 Rev.6 IOGP S563 December 2018 - MDS ID143 Rev. 01 and MDS ID 144 Rev. 01 EN ISO 17782:2018				
Manufacturing summary doc. No.:		MS-F51-FSG-TEE				Rev. No.: 1
Products and manufacturing process(es):		Forged products 3" and above: tees, reducers, rings and caps. Manufactured by open-die forging as forged block, rough machined, solution annealed and machined to final dimension				
Mandatory conditions and sub-contractors:		Starting material supplied by: Acciaierie Valbruna // Acerlava // BGH Edelstahlwerke (Freital or Siegen) // Böhler Edelstahl // Cogne Acciai Speciali // Foroni // Italfond // Sandvik Forgemaster: Forgiatura San Giorgio Minimum forging ratio 5:1 Forgings are heat treated bored Heat treatment performed by M.E.G.A., furnace to be used: Gadda 1225-1 Testing subcontracted to MEGA-LAB (ISO 17025 accredited)				
Other information:		Heat treatment procedure verification carried out under supervision of qualifying company on 13/06/2013 and 03/03/2016 This document QTR-F51-FSG-TEE is an update of previous QTR Q31A				
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 fittings	TC-TEE-F51-QTR Q31-001	245	245	175	350	
Qualification/acceptance signatures						
Manufacturer:		Prepared by/Date: S. Rossi 20-Jan-2021		Checked by/Date: M. Arrigoni 20-Jan-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. 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):				Initial approval date: 20-Jan-2021 Expiry date: 19-Jan-2026 Signature: <i>Mika Buxter</i> <i>Ben</i>		

	Qualification Test Record NORSOK M-650 Edition 4				QTR. No.: QTR-F53-FSG-TEE	
					Rev. No.: 0	
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 – MDS D54 Rev.6 // ASTM A815 UNS S32750 – MDS D53 Rev.6 IOGP S563 December 2018 - MDS ID254 Rev. 01 and MDS ID 253 Rev. 01 EN ISO 17781:2017				
Manufacturing summary doc. No.:		MS-F53-FSG-TEE				Rev. No.: 0
Products and manufacturing process(es):		Open-die forged fittings rough machined, solution annealed and machined to final dimension				
Mandatory conditions and sub-contractors:		Starting material supplied by: Acciaierie Valbruna // Aceralava // ASO Siderurgica // BGH Edelstahlwerke (Freital or Siegen) // Böhler Edelstahl // Cogne Acciai Speciali // Italfond // Sandvik Forging activities performed by Forgiatura San Giorgio Products are forged in solid shape, and may be heat treated solid up to maximum thickness 155 mm. Products with higher thicknesses are heat treated bored, with maximum thickness 155 mm. Heat treatment performed by M.E.G.A., furnace to be used: Gadda 1225-1 Testing subcontracted to MEGA-LAB (ISO 17025 accredited) Pickling subcontracted to BAMA (applicable only if there are surfaces not fully machined)				
Other information:		Heat treatment procedure verification carried out under supervision of qualifying company 13/06/2013 and repeated on 03/03/2016				
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 fittings	TC-TEE-F53-QTR Q31-001	245	245	853	All	
Qualification/acceptance signatures						
Manufacturer:		Prepared by/Date: S. Rossi 20-Jan-2021		Checked by/Date: M. Arrigoni 20-Jan-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. 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):				Initial approval date: 20-Jan-2021 Expiry date: 19-Jan-2026 Signature: 		

	Qualification Test Record NORSOK M-650 Edition 4		QTR. No.: QTR-F53-RIG-TEE		
			Rev. No.: 0		
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 – MDS D54 Rev.6 // ASTM A815 UNS S32750 – MDS D53 Rev.6 IOGP S563 December 2018 - MDS ID254 Rev. 01 and MDS ID 253 Rev. 01 EN ISO 17781:2017				
Manufacturing summary doc. No.:	MS-F53-RIG-TEE		Rev. No.: 0		
Products and manufacturing process(es):	Hammer forged tees, forged to shape in close dies, solution annealed and machined to final dimension				
Mandatory conditions and sub-contractors:	Starting material supplied by: Acciaierie Valbruna // Aeralava // ASO Siderurgica // BGH Edelstahlwerke (Freital or Siegen) // Böhler Edelstahl // Cogne Acciai Speciali // Italfond // Sandvik Pieces forged as close as possible to final shape by Forgiatura Riganti. Minimum forging ratio 4:1 Heat treatment by: M.E.G.A. either in - Furnace Gadda 1225-1, or - Furnace Gadda 1272-F2 Production test carried out on the carrot taken out from the forging main bore. Maximum carrot diameter 90 mm Testing subcontracted to MEGA-LAB (ISO 17025 accredited) Pickling subcontracted to BAMA (applicable only if there are surfaces not fully machined)				
Other information:	Heat treatment procedure verification carried out under supervision of qualifying company: - Gadda 1225-1 on 11-12/06/2013, and one more time on 2-3/03/2016 - Gadda 1272-F2 on 02-03/03/2016, on 13-14/06/2016 and one more time on 04-05/06/2019				
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 fittings	TC-TEE-F53-QTR Q28-001	175.3	175.3	74	148
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: S. Rossi 20-May-2021		Checked by/Date: M. Arrigoni 20-May-2021		
Remarks/Special remarks: - 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 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):  Gamle Forusveien 53 NO-4033 STAVANGER			Initial approval date: 20-May-2021 Expiry date: 19-May-2026 Signature: 		

 M.E.G.A.	Qualification Test Record NORSOK M-650 Edition 4		QTR. No.: QTR-F55-ODO-TEE		
			Rev. No.: 0		
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 – MDS D54 Rev.6 // ASTM A815 UNS S32760 – MDS D53 Rev.6 IOGP S563 December 2018 - MDS ID254 Rev. 01 and MDS ID 253 Rev. 01 EN ISO 17781:2017				
Manufacturing summary doc. No.:	MS-F55-ODO-TEE		Rev. No.: 0		
Products and manufacturing process(es):	Forged tees by open-die forging in solid shape, rough machined and bored, solution annealed and machined to final dimension.				
Mandatory conditions and sub-contractors:	Starting material supplied by: Acciaierie Valbruna // Acerlava // BGH Edelstahlwerke (Freital or Siegen) // Böhler Edelstahl // Cogne Acciai Speciali // Foroni // Italfond // Sandvik Bars forged as close as possible to final shape by Industria Metallurgica Odobez. Minimum forging ratio 4:1 Heat treatment performed by M.E.G.A., furnace to be used: Gadda 1272-F2. Production test carried out on carrot of the main run. The diameter of the carrot shall not exceed by 135 mm the maximum thickness of the forging as heat treated. Testing subcontracted to MEGA-LAB (ISO 17025 accredited) Pickling subcontracted to BAMA				
Other information:	Heat treatment procedure verification carried out under supervision of qualifying company on 03/03/2016 and repeated on 14/12/2016 and on 04-05/06/2019				
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 tees	LT-TEE-F55-QTR Q33	210	210	360	All
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: S. Rossi 20-Jan-2021		Checked by/Date: M. Arrigoni 20-Jan-2021		
Remarks/Special remarks: - 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 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):  Gamle Forusveien 53 NO-4033 STAVANGER			Initial approval date: 20-Jan-2021 Expiry date: 19-Jan-2026 Signature: 		

	Qualification Test Record NORSOK M-650 Edition 4				QTR. No.: QTR-F51-ITA-PIP
					Rev. No.: 2
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 (UNS S31803) and F60 (UNS S32205) – MDS D44 Rev.6, MDS DH44 Rev.1 ASTM A790 UNS S31803 and S32205 – MDS D41 Rev.6, MDS DH41 Rev.1 IOGP S563 December 2021, MDS ID144 Rev. 01 and MDS ID 141 Rev. 01 EN ISO 17781:2017			
Manufacturing summary doc. No.:		MS-F51-ITA-PIP			Rev. No.: 2
Products and manufacturing process(es):		Forged pipes manufactured from forged bar, rough machined, solution annealed and machined to final dimension			
Mandatory conditions and sub-contractors:		Starting material supplied by: Acciaierie Valbruna // Aceralava // ASO Siderurgica // BGH Edelstahlwerke (Freital or Siegen) // Böhler Edelstahl // Cogne Acciai Speciali // Foroni // Italfond // Sandvik Pieces forged as close as possible to final shape by Italfond. Minimum forging ratio 4:1 Heat treatment performed by M.E.G.A. Furnace to be used: Gadda 1272-F2 – maximum length: 6.50 m Testing subcontracted to MEGA-LAB (ISO 17025 accredited) Pickling subcontracted to BAMA			
Other information:		Heat treatment procedure verification carried out under supervision of qualifying company on 02-03/03/2016 and repeated on 04-05/06/2019 and 21/11/2023 This document QTR-F51-ITA-PIP is an update of previous QTR Q19			
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 pipes (MEGA Gadda 1272-F2)	TC-PIPE-F52-QTR19-001T LT-PIPE-F52-QTR Q19/1	100	100	Greater than 250	All
Qualification/acceptance signatures					
Manufacturer:		Prepared by/Date: S. Rossi 20-Jan-2021		Checked by/Date: M. Arrigoni 20-Jan-2021	
Remarks/Special remarks: - 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 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			Initial approval date: 25.07.2025 Expiry date (annual renewal): 25.07.2026 Signature: <i>Mike Berntsen</i>		

	Qualification Test Record NORSOK M-650 Edition 4			QTR. No.: QTR-F53-ITA-PIP	
				Rev. No.: 4	
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 – MDS D54 Rev.6 // ASTM A790 UNS S32750 – MDS D51 Rev.6 IOGP S563 December 2021 - MDS ID254 Rev. 02 and MDS ID 251 Rev. 01 EN ISO 17781:2017				
Manufacturing summary doc. No.:	MS-F53-ITA-PIP			Rev. No.: 3	
Products and manufacturing process(es):	Forged pipes manufactured from forged bar, rough machined, solution annealed and machined to final dimension				
Mandatory conditions and sub-contractors:	Starting material supplied by: Acciaierie Valbruna // Aceralava // ASO Siderurgica // BGH Edelstahlwerke (Freital or Siegen) // Böhler Edelstahl // Cogne Acciai Speciali // Italfond // Sandvik Pieces forged as close as possible to final shape by Italfond. Minimum forging ratio 4:1 Heat treatment performed by M.E.G.A., furnace to be used: Gadda 1272-F2 (maximum length: 6.50 m) Testing subcontracted to MEGA-LAB (ISO 17025 accredited) Pickling subcontracted to BAMA				
Other information:	Heat treatment procedure verification carried out under supervision of qualifying company: - Sorbit F1 on 04/04/2014 and repeated under supervision of SGS on 17/06/2014 - M.E.G.A. Gadda 1272-F2 on 02-03/03/2016, repeated on 04-05/06/2019 and on 22-11-2023				
Qualification expires:	30 August 2029				
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 pipes (MEGA Gadda 1272-F2)	TC-PIPE-F53-QTR18-001T LT-PIPE-F53-QTR Q18/1	100	100	Greater than 250	All
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: S. Rossi 07-Sep-2021	Checked by/Date: M. Arrigoni 07-Sep-2021			
Remarks/Special remarks: - 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 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			Initial approval date: 30.08.2024 Expiry annual date: 30.08.2026 Signature: <i>Mike Beutler</i> <i>Beutler</i>		

	Qualification Test Record NORSOK M-650 Edition 4				QTR. No.: QTR-F55-ITA-PIP	
					Rev. No.: 4	
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 – MDS D54 Rev.6 // ASTM A790 UNS S32760 – MDS D51 Rev.6 IOGP S563 December 2021 - MDS ID254 Rev. 02 and MDS ID 251 Rev. 01 EN ISO 17781:2017				
Manufacturing summary doc. No.:		MS-F55-ITA-PIP				Rev. No.: 2
Products and manufacturing process(es):		Forged pipes manufactured from forged bar, rough machined, solution annealed and machined to final dimension				
Mandatory conditions and sub-contractors:		Starting material supplied by: Acciaierie Valbruna // Acerlaval // BGH Edelstahlwerke (Freital or Siegen) // Böhler Edelstahl // Cogne Acciai Speciali // Foroni // Italfond // Sandvik Bars forged as close as possible to final shape by Italfond. Minimum forging ratio 4:1 Heat treatment performed by M.E.G.A., furnace to be used: Gadda 1272-F2 (maximum length: 6.50 m) Testing subcontracted to MEGA-LAB (ISO 17025 accredited) Pickling subcontracted to BAMA				
Other information:		Heat treatment procedure verification carried out under supervision of qualifying company on 04-05/06/2019 and on 22-11-2023. Previous name of this QTR was Q16				
Qualification expires:		30-August-2029				
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 pipes (Gadda 1272-F2)	TRS-19-0168-001	100	100	Greater than 250	All	
Qualification/acceptance signatures						
Manufacturer:		Prepared by/Date: S. Rossi 07-Sep-2021		Checked by/Date: M. Arrigoni 07-Sep-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. 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: 30-August-2024 Expiry annual date: 30-August-2026 Signature: <i>Mike Buxhake</i>		