







NORSOK standard M-650 Rev 4



	<b>NORSOK M-650 / ISO 17782 2018</b>  <b>Qualification Test Record (QTR)</b> <b>F44 – 6Mo Austenitic Stainless Steel</b>				QTR. No.: MDS-R14	
					Rev 13	
Manufacturer name/address/ Web page:	<b>DYFORM JENKINS DUNN LTD</b> Moland Forge, Central Trading Estate Shaw Road, Dudley West Midlands DY2 8QX					
Reference standard	NORSOK M-650 Rev: 4 - ISO 17782 - 2018					
Material designation and MDS No.:	ASTM A182-F44 NORSOK M-630: 2020 ed MDS- R14 Rev: 6					
Manufacturing summary doc. No.:	DJDMS- R14				Rev : 3	
Products and manufacturing process(es):	Die Forged IBO Die Forged Butt Weld Outlet Forging Die Forged Butt Weld Outlet Forging (punched) Die Forged Raised Face Weld Neck Flange Die Forged Flanged Nipple Outlets Die Forged Threaded Outlet Forging				<b>Production Route No:</b> DJDMR R14 Rev 3	
Mandatory conditions and sub-contractors:	Heat Treatment carried out by:- Abbey Forged Products Ltd. Beeley Wood Works, Beeley Wood Lane, Sheffield S6 1ND Furnaces No. 1, 2, 3, 4 & 6					
Other information:	Heat treated according to Abbey Forged Products procedure AFP H009 Rev 8. No stacking. <b>Heat Treatment furnaces 1, 2, 3, 4 &amp; 6 are verified Norsok M650 Ed 4</b> (See individual verification reports) Qualification testing covers all products described in DJDMS-R14 Rev3, DJDMR-R14Rev3 Pickle and Passivate by :- William Roland, Sheffield. Testing to be carried out at ISO 17025 accredited laboratory. Final Documentation by Spromak Ltd. Dyform Jenkins Dunn is a division of Spromak Ltd. *Historical Qualification Reports **Compliance Production Testing					
Qualification expires:	27.04.2028					
<b>Tested and Qualified Thickness and Weight</b>						
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)	
Die Forged IBO	*M403310	90	90	22.0	44.0	
Die Forged BWO	*M505357	100	100	7.8	15.6	
Die Forged RFWN Flange	*M505358	55	60	3.1	6.2	
Die Forged BWO(Punched)	*M606716	58.3	63.7	8.9	17.8	
Die Forged FNO	*N600364	95	104	23.8	45.7	
Die Forged TOF	**22-02088	57	63.	0.5	1.0	
Die Forged FNO	**22-12528	104	104	23.8	47.6	
Die Forged FNO FLG	**22-11485	74	74	6.8	13.6	
<b>Qualified / Acceptance signatures</b>						
<b>Manufacturer:</b>	Prepared by / Date: 27/04/2023		Checked by / Date: 27/04/2023			
	 R.Bratt-Wyton		 B.Sneddon			
The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 ed 4 and ISO 17882 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/ISO17782						
Qualified/Accepted by (company name/address):			Signature / Date: 27.04.2023			
 Scandinavian Fittings & Flanges						

	<b>NORSOK M-650 Ed 4 / ISO 17782 - 2018</b>  <b>Qualification Test Record (QTR)</b> <b>F51 – Duplex Stainless Steel</b>		QTR. No.: MDS-D44-F51
			Rev. No.:14
Manufacturer name/address/ Web page:	<b>DYFORM JENKINS DUNN LTD</b> (A Division of Spromak Ltd., 11G Wilson Rd., Huyton, Liverpool, L36 6AN) Moland Forge, Central Trading Estate, Shaw Road, Dudley, West Midlands DY2 8QX		
Reference standard	NORSOK M-650 ED.: 4 / ISO 17782-2018		
Material designation and MDS No.:	ASTM A182 Grade F51 NORSOK M-630: 2020 MDS- D44 Rev.6 & MDS DH44 Rev:1		
Manufacturing summary doc. No.:	DJDMS- D44/DH44	Rev: 3	
Products and manufacturing process(es):	Die Forged WOF (Solid) Die Forged WOF (Punched) Die Forged Flanged Nipple Outlets FNO Die Forged WN Flanges Die Forged IBO/BWI (Solid)		<b>Production Route No</b> DJDMR D44/DH44 Rev 3
Mandatory conditions and sub-contractors:	Heat Treatment carried out by: - Abbey Forged Products Ltd. Beeley Wood Works, Beeley Wood Lane, Sheffield S6 1ND Furnaces No. 1, 2, 3, 4 & 6		
Other information:	Heat treated according to Abbey Forged Products procedure AFP H001 Rev 8 No stacking. Heat Treatment furnaces 1, 2, 3, 4 & 6 are verified to Norsok 650 Ed 4 (See individual verification reports) Qualification testing covers all products described in DJDMS-D44 Rev 3 and DJDMR-D44 Rev 3 Pickle and Passivate by :- William Roland, Sheffield. Testing to be carried out at ISO 17025 accredited laboratory. Final Documentation by Spromak Ltd. Dyform Jenkins Dunn is a division of Spromak Ltd. *Historical Qualification Reports **Compliance Production Testing to MDS- D44 Rev.6 & MDS-DH44 Rev:1		
Qualification expires:	27.04.2028		



**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)
Die Forged WOF(Solid)	*M010640	77	84	2.75	5.5
Die Forged FNO	*M007831	95	104	31.5	63
Die Forged FNO	*M515567	89	98	16	32
Die Forged WOF(Punched)	*M604728	63	69	29	58
Die Forged FNO	**22-13352	61	67	7.0	14
Die Forged FLG	**23-01421	104	114	23.5	47
Die Forged BWO	**22-12937	76	84	42	84






**Qualified / Acceptance signatures**





<b>Manufacturer:</b>	Prepared by / Date: 27/04/2023	Checked by / Date: 27/04/2023
	 R.Bratt-Wyton	 B.Sneddon

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 Ed 4 and ISO 17782-2018 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/ISO17782





<b>Qualified/Accepted by</b> (company name/address):   Scandinavian Fittings & Flanges	Signature / Date:   27.04.2023
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	<b>NORSOK M-650 Ed 4 / ISO 17782 – 2018</b>				QTR. No.: MDS-D54-F53	
	<b>Qualification Test Record (QTR)</b> <b>F53 – Duplex Stainless Steel</b>				Rev.15	
Manufacturer name/address/ Web page:	DYFORM JENKINS DUNN LTD Moland Forge, Central Trading Estate Shaw Road, Dudley West Midlands DY2 8QX					
Reference standard	NORSOK M-650 Ed: 4 / ISO 17782-2018					
Material designation and MDS No.:	ASTM A182-F53 NORSOK M-630 Ed.2020 MDS- D54 Rev: 6 MDS-DH54 rev.1					
Manufacturing summary doc. No.:	DJDMs- D54/DH54 F53				Rev : 3	
Products and manufacturing process(es):	Die Forged Flanged Nipple Outlets FNO Die Forged WOF(Punched) Die Forged WOF (Solid) Die Forged Flanged Nipple Outlet FNO Die Forged WN Flanges Die Forged IBO/BWI(Solid)				<b>Production Route No:</b> DJDMR D54/DH54 Rev 3	
Mandatory conditions and sub-contractors:	Heat Treatment carried out by:- Abbey Forged Products Ltd. Beeley Wood Works, Beeley Wood Lane, Sheffield S6 1ND Furnaces No. 1, 2, 3, 4 & 6					
Other information:	Heat treated according to Abbey Forged Products procedure AFP H003 Rev 8. No stacking. Heat Treatment furnaces 1, 2, 3, 4 & 6 are verified Norsok M650 Ed 4 (See individual verification reports) Qualification testing covers all products described in DJDMs-D54/DH54 Rev3, DJDMR-D54/DH54 Rev3 Pickle and Passivate by :- William Roland , Sheffield. Testing to be carried out at ISO 17025 accredited laboratory. Final Documentation by Spromak Ltd. Dyform Jenkins Dunn is a division of Spromak Ltd. *Historical Qualification Report **Compliance Production Testing					
Qualification expires:	27.04.2028					
<b>Tested and Qualified Thickness and Weight</b>						
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)	
Die Forged WOF (Solid)	*M006435	77	77	2.75	5.5	
Die Forged FNO	*M007828	95	95	31.5	63	
Die Forged FNO	*M601935	90	90	33.0	66	
Die Forged WOF (punched)	*M604726	63	63	29	58	
Die Forged WOF (Solid)	**21-01985	96	96	2.95	5.90	
Die Forged IBO(Solid)	**21-07682	181	181	12.7	25.4	
Die Forged IBO(Solid)	**22-13123	181	181	12.7	25.4	
<b>Qualified / Acceptance signatures</b>						
Manufacturer:	Prepared by / Date: 27/04/2023		Checked by / Date: 27/04/2023			
	 R.Bratt-Wyton		 B.Sneddon			
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						
Qualified/Accepted by (company name/address):			Signature / Date: 27.04.2023			
 Scandinavian Fittings & Flanges						

	<b>NORSOK M-650 Ed 4 / ISO 17782 – 2018</b>				QTR. No.: MDS-D54-F55	
	<b>Qualification Test Record (QTR) F55 – Duplex Stainless Steel</b>				Rev. 14	
Manufacturer name/address/ Web page:	<b>DYFORM JENKINS DUNN.</b> (A Division of Spromak Ltd., 11G Wilson Rd., Huyton, Liverpool, L36 6AN) Moland Forge, Central Trading Estate Shaw Road, Dudley, West Midlands DY2 8QX					
Reference standard	NORSOK M-650 Ed: 4 / ISO 17782-2018					
Material designation and MDS No.:	ASTM A182-F55 NORSOK M-630 -2020 & MDS- D54 Rev: 6 MDS-DH54 rev.1					
Manufacturing summary doc. No.:	DJOMS- D54/DH54 F55				Rev : 3	
Products and manufacturing process(es):	Die Forged Flanged Nipple Outlets FNO Die Forged WOF (Punched) Die Forged WOF (Solid) Die Forged WN Flanges Die Forged IBO/BWI(Solid)				<b>Production Route No:</b> DJDMR D54/DH54 Rev 3	
Mandatory conditions and sub-contractors:	Heat Treatment carried out by:- Abbey Forged Products Ltd. Beeley Wood Works, Beeley Wood Lane, Sheffield S6 1ND Furnaces No. 1, 2, 3, 4 & 6					
Other information:	Heat treated according to Abbey Forged Products procedure AFP H002 Rev 9. No stacking. Heat Treatment furnaces 1, 2, 3, 4 & 6 are verified Norsok M650 Ed 4 (See individual verification reports) Qualification testing covers all products described in DJOMS-D54/DH54 Rev3, DJDMR-D54/DH54 Rev3 Pickle and Passivate by :- William Roland, Sheffield Testing to be carried out at ISO 17025 accredited laboratory. Final Documentation by Spromak Ltd. Dyform Jenkins Dunn is a division of Spromak Ltd. *Historical Qualification Reports **Compliance Production Testing					
Qualification expires:	27.04.2028					
<b>Tested and Qualified Thickness and Weight</b>						
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)	
Die Forged RFWN	*M601696	92	92	21.1	42.2	
Die Forged FNO	M601936	90	90	33.0	66	
Die Forged WOF (Punched)	M604737	63	63	29	58	
Die Forged WOF	**22-13122	40	44	13.5	27	
Die Forged FLG	**22-00917	85	85	23	46	
Die Forged IBO	**23-00197	200	200	35	70	
<b>Qualified / Acceptance signatures</b>						
<b>Manufacturer:</b>	Prepared by / Date: 27/04/2023		Checked by / Date: 27/04/2023			
	 <b>R.Bratt-Wyton</b>		 <b>B.Sneddon</b>			
The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 ed 4 and ISO 17782-2018 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 / ISO 17782						
<b>Qualified/Accepted by</b> (company name/address):			Signature / Date: <span style="float: right; color: blue; font-size: 1.2em;">27.04.2023</span>			
 Scandinavian Fittings & Flanges			Jarle Pollestad			

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	<b>Qualification Test Record (QTR)</b> <b>NORSOK M-650</b>				QTR. No.: MDS-T24	
					Rev 6	
Manufacturer name/address/ Web page:	<b>DYFORM JENKINS DUNN LIMITED</b> (A Division of Spromak Ltd., 11G Wilson Rd., Huyton, Liverpool, L36 6AN) Moland Forge, Central Trading Estate Shaw Road Dudley West Midlands DY2 8QX					
Reference standard	NORSOK M-650 Rev: 4 - ISO 17782 - 2018					
Material designation and MDS No.:	ASTM B381 Grade F2 NORSOK M-630: 2020 MDS- T24 Rev: 1					
Manufacturing summary doc. No.:	DJMS- T24				Rev : H	
Products and manufacturing process(es):	Die Forged Flanged Nipple Outlets FNO Die Forged Butt Weld Outlet Forging WOF Die Forged Butt Weld Outlet Forging WOF(Punched) Die Forged IBO Die Forged TOF				<b>Production Route No:</b> DJDMR T24 iss D	
Mandatory conditions and sub-contractors:	Heat Treatment carried out by:- Abbey Forged Products Ltd, Beeley Wood Works, Beeley Wood Lane, Sheffield, S6 1ND Furnace No. 1,2,3,4 & 6					
Other information:	This relates to all products described in DJMS T24 iss H and DJDMR T24 iss D. Heat treated according to ABBEY Forged Products HT procedure H046 Rev 1. Heat Treatment furnaces 1, 2, 3, 4 & 6 are verified Norsok M650 Ed 4 (See individual verification reports) Raw materials – refer to DJD Norsok Raw material Mills N1 Rev 3 Testing to be carried out at ISO 17025 accredited laboratory. Final MTR issued by Spromak Ltd. Dyform Jenkins Dunn is a division of Spromak Ltd. *Historical Qualification Reports **Compliance Production Testing					
Qualification expires:	27.04.2028					
<b>Tested and Qualified Thickness and Weight</b>						
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)	
Die Forged Flanges	*M705856	90	112	20	40	
Die Forged WOF	*M706984	67	84	12.6	25.6	
Die Forged WOF	*M601001	112	133	11.9	23.8	
Die Forged Flanges	**22-07796	65	68	2.5	5.0	
Die Forged WOF	**22-11426	52	65	12	24	
Die Forged Boss	**22-07796	120	150	17.6	35.2	
<b>Qualified / Acceptance signatures</b>						
<b>Manufacturer:</b>	Prepared by / Date: 27/04/2023  R.Bratt-Wyton		Checked by / Date: 27/04/2023  B.Sneddon			
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						
<b>Qualified/Accepted by (company name/address):</b>     Scandinavian Fittings & Flanges			Signature / Date: 27.04.2023  