



<b>w.h.tildesley ltd</b>	<b>Qualification Test Record (QTR) NORSOK M-650</b>		QTR. No.: 00025FL
			Rev. No.:0
<b>Manufacturer name/address/ Web page:</b>	W H TILDESLEY LTD, Bow Street, Willenhall, West Midlands UK, WV13 2AN <a href="http://www.whtildesley.com">www.whtildesley.com</a>		
<b>Reference standard</b>	NORSOK M-650, Edition 4		
<b>Material designation and MDS No.:</b>	ASTM A182 Gr. F44; UNS S31254: NORSOK M630 MDS R14, Revision 5.		
<b>Manufacturing Summary doc. No.:</b>	WHT Manufacturing Summary 00025FL		Rev. No.:0
<b>Products and manufacturing process(es):</b>	Closed Die Forged products: Flanges, Nozzles and Single-Flange Valves WHT Production Route 00025/FL		
<b>Mandatory conditions and sub-contractors:</b>	Hot rolled bar or billet to be sourced from NORSOK Qualified Manufacturer with current QTR for Material Grade MDS R17 latest revision All Heat Treatment to be carried out by Special Steels Ltd Woodbourn Hill, Sheffield: Furnace AP1(Max Load 850Kg) All testing to be carried out by Special Testing Ltd, Bacon Lane, Sheffield		
<b>Other information:</b>	Parts to be Pickled and Passivated by Anapol Ltd or other approved supplier Verification of Heat Treatment Procedures for Furnace AP1 completed in February 2015, Report No WHTSSL AP1-1150		
<b>Qualification expires:</b>	May 2020 (5 Years from Signature Date of 'Qualified/Accepted by' Company)		

### Tested and qualified thickness and weight

<b>Products and manufacturing process(es):</b>	<b>Test record No.</b>	<b>Tested thickness mm</b>	<b>Qualified thickness mm</b>	<b>Test piece weight kg</b>	<b>Qualified weight kg</b>
Forging of Flanges, Nozzles and Single Flange Valves	00025/FL-F44	145	145	35	70

### Qualification/acceptance signatures


<b>Manufacturer:</b>	<b>Prepared by/Date:</b> Sreed 05/05/2015	<b>Checked by/Date:</b> miller 5/5/2015
<p>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.</p>		
<b>Qualified/Accepted by (company name /address):</b>	<b>Signature/Date:</b> 13/05/2015	
 <b>Aker Solutions</b> Aker Engineering & Technology AS Reg.nr. 879 817 552		

<b>w.h.tildesley ltd</b>	<b>Qualification Test Record (QTR) NORSOK M-650</b>		QTR. No.: 00025/VB
			Rev. No.:1
<b>Manufacturer name/address/ Web page:</b>	W H TILDESLEY LTD. Bow Street, Willenhall, West Midlands UK, WV13 2AN <a href="http://www.whtildesley.com">www.whtildesley.com</a>		
<b>Reference standard</b>	NORSOK M-650, Edition 4		
<b>Material designation and MDS No.:</b>	ASTM A182 Gr. F44: UNS S31254: NORSOK M630 MDS R14, Revision 5.		
<b>Manufacturing Summary doc. No.:</b>	WHT Manufacturing Summary 00025/VB	Rev. No.:1	
<b>Products and manufacturing process(es):</b>	Closed Die Forged products: Valve components and fittings WHT Production Route 00025/VB		
<b>Mandatory conditions and sub-contractors:</b>	Hot rolled bar or billet to be sourced from NORSOK Qualified Manufacturer with current QTR for Material Grade MDS R17 latest revision All Heat Treatment to be carried out by Special Steels Ltd Woodbourn Hill, Sheffield: Furnace AP1(Max Load 850Kg) All testing to be carried out by Special Testing Ltd, Bacon Lane, Sheffield		
<b>Other information:</b>	Parts to be Pickled and Passivated by Anapol Ltd or other approved supplier Verification of Heat Treatment Procedures for Furnace AP1 completed in February 2015, Report No WHTSSL AP1-1150 QTR rev. 1: QTR updated. Exclusion of compression fittings removed. Expiring date remains unchanged.		
<b>Qualification expires:</b>	12 <sup>th</sup> May 2020		

### Tested and qualified thickness and weight

<b>Products and manufacturing process(es):</b>	<b>Test record No.</b>	<b>Tested thickness mm</b>	<b>Qualified thickness mm</b>	<b>Test piece weight kg</b>	<b>Qualified weight kg</b>
Die-Forged Valve Components	00025/VB-F44A	76.2	76.2	8.1	16.2
Die-Forged fittings	00025/VB-F44B	40.0	44.0	1.23	2.5

### Qualification/acceptance signatures


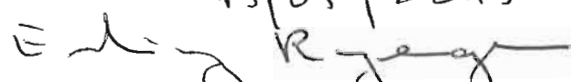
<b>Manufacturer:</b>	<b>Prepared by/ 11/01/17</b> <i>S. Reed</i>	<b>Checked by/ 11/01/17</b> <i>J. Tildesley</i>
The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials. This acceptance does 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>  <b>Aker Solutions</b> Aker Engineering & Technology AS Reg.nr. 879 817 552	<b>Signature/Date:</b> 13/01/2017 <i>Erling Ryege</i>	

<b>w.h.tildesley ltd</b>	<b>Qualification Test Record (QTR) NORSOK M-650</b>		QTR. No.: 00030FL
			Rev. No.:0
<b>Manufacturer name/address/ Web page:</b>	W H TILDESLEY LTD, Bow Street, Willenhall, West Midlands UK, WV13 2AN <a href="http://www.whtildesley.com">www.whtildesley.com</a>		
<b>Reference standard</b>	NORSOK M-650, Edition 4		
<b>Material designation and MDS No.:</b>	ASTM A182 Gr. F51; UNS S31803: NORSOK M630 MDS D44, Revision 5.		
<b>Manufacturing Summary doc. No.:</b>	WHT Manufacturing Summary 00030FL	Rev. No.:0	
<b>Products and manufacturing process(es):</b>	Closed Die Forged products: Flanges, Nozzles and Single-Flange Valves WHT Production Route 00030/FL		
<b>Mandatory conditions and sub-contractors:</b>	Hot rolled bar or billet to be sourced from NORSOK Qualified Manufacturer with current QTR for Material Grade MDS D47 latest revision All Heat Treatment to be carried out by Special Steels Ltd Woodbourn Hill, Sheffield: Furnaces AP1(Max Load 850Kg) or AP3 (Max Load 955Kg) All testing to be carried out by Special Testing Ltd, Bacon Lane, Sheffield		
<b>Other information:</b>	Parts to be Pickled and Passivated by Anapol Ltd or other approved supplier Verification of Heat Treatment Procedures for Furnace AP1 and AP3 completed in February 2015, Report Nos WHTSSL AP1-1150 and WHTSSL AP3-1120.		
<b>Qualification expires:</b>	May 2020 (5 Years from Signature Date of 'Qualified/Accepted by' Company)		

### 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
Forging of Flanges, Nozzles and Single Flange Valves	00020/FL-F51	145	145	35	70

### Qualification/acceptance signatures

<b>Manufacturer:</b>	<b>Prepared by/Date:</b> Skeed 05/05/2015	<b>Checked by/Date:</b> J. M. L. 5/5/2015
<p>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.</p>		
<b>Qualified/Accepted by (company name /address):</b>	<b>Signature/Date:</b>	
 <b>Aker Solutions</b> Aker Engineering & Technology AS Reg.nr. 879 817 552	13/05/2015 	

<b>w.h.tildesley ltd</b>	<b>Qualification Test Record (QTR) NORSOK M-650</b>		QTR. No.: 00030/VB
			Rev. No.1
<b>Manufacturer name/address/ Web page:</b>	W H TILDESLEY LTD. Bow Street, Willenhall, West Midlands UK, WV13 2AN <a href="http://www.whitildesley.com">www.whitildesley.com</a>		
<b>Reference standard</b>	NORSOK M-650, Edition 4		
<b>Material designation and MDS No.:</b>	ASTM A182 Gr. F51: UNS S31803: NORSOK M630 MDS D44, Revision 5.		
<b>Manufacturing Summary doc. No.:</b>	WHT Manufacturing Summary 00030/VB	Rev. No.1	
<b>Products and manufacturing process(es):</b>	Closed Die Forged products: Valve components and fittings WHT Production Route 00030/VB		
<b>Mandatory conditions and sub-contractors:</b>	Hot rolled bar or billet to be sourced from NORSOK Qualified Manufacturer with current QTR for Material Grade MDS D47 latest revision All Heat Treatment to be carried out by Special Steels Ltd Woodbourn Hill, Sheffield: Furnaces AP1(Max Load 850Kg) or AP3 (Max Load 955Kg) All testing to be carried out by Special Testing Ltd. Bacon Lane, Sheffield		
<b>Other Information:</b>	Parts to be Pickled and Passivated by Anapol Ltd or other approved supplier Verification of Heat Treatment Procedures for Furnace AP1 and AP3 completed in February 2015, Report Nos WHTSSL AP1-1150 and WHTSSL AP3-1120. QTR rev. 1: QTR updated. Exclusion of compression fittings removed. Expiring date remains unchanged.		
<b>Qualification expires:</b>	12 <sup>th</sup> May 2020		


### Tested and qualified thickness and weight


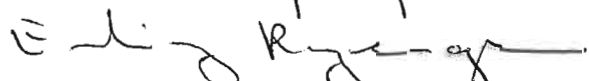
<b>Products and manufacturing process(es):</b>	<b>Test record No.</b>	<b>Tested thickness mm</b>	<b>Qualified thickness mm</b>	<b>Test piece weight kg</b>	<b>Qualified weight kg</b>
Die-Forged Valve Components	00030/VB-F51A	76.2	76.2	8.1	16.2
Die-Forged fittings	00030/VB-F51B	40.0	44.0	1.23	2.5

### Qualification/acceptance signatures

<b>Manufacturer:</b>	<b>Prepared by 11/01/17</b> <i>S. Ullend</i>	<b>Checked by 11/01/17</b> <i>J. Ullend</i>
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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>  <b>Aker Solutions</b> Aker Engineering & Technology AS Reg.nr. 879 817 552	<b>Signature/Date:</b> 13/01/2017 <i>Erling Ryege</i>
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<b>w.h.tildesley ltd</b>	<b>Qualification Test Record (QTR) NORSOK M-650</b>		QTR. No.: 00020FL		
			Rev. No.:0		
<b>Manufacturer name/address/ Web page:</b>	W H TILDESLEY LTD, Bow Street, Willenhall, West Midlands UK, WV13 2AN <a href="http://www.whtildesley.com">www.whtildesley.com</a>				
<b>Reference standard</b>	NORSOK M-650, Edition 4				
<b>Material designation and MDS No.:</b>	ASTM A182 Gr. F55; UNS S32760: NORSOK M630 MDS D54, Revision 5.				
<b>Manufacturing Summary doc. No.:</b>	WHT Manufacturing Summary 00020FL			Rev. No.:0	
<b>Products and manufacturing process(es):</b>	Closed Die Forged products: Flanges, Nozzles and Single-Flange Valves WHT Production Route 00020/FL				
<b>Mandatory conditions and sub-contractors:</b>	Hot rolled bar or billet to be sourced from NORSOK Qualified Manufacturer with current QTR for Material Grade MDS D57 latest revision All Heat Treatment to be carried out by Special Steels Ltd Woodbourn Hill, Sheffield: Furnaces AP1(Max Load 850Kg) or AP3 (Max Load 955Kg) All testing to be carried out by Special Testing Ltd, Bacon Lane, Sheffield				
<b>Other information:</b>	Parts to be Pickled and Passivated by Anapol Ltd or other approved supplier Verification of Heat Treatment Procedures for Furnace AP1 and AP3 completed in February 2015, Report Nos WHTSSL AP1-1150 and WHTSSL AP3-1120.				
<b>Qualification expires:</b>	May 2020 (5 Years from Signature Date of 'Qualified/Accepted by' Company)				
<b>Tested and qualified thickness and weight</b>					
<b>Products and manufacturing process(es):</b>	<b>Test record No.</b>	<b>Tested thickness mm</b>	<b>Qualified thickness mm</b>	<b>Test piece weight kg</b>	<b>Qualified weight kg</b>
Forging of Flanges, Nozzles and Single Flange Valves	00020/FL-F55	145	145	35	70
<b>Qualification/acceptance signatures</b>					
<b>Manufacturer:</b>	<b>Prepared by/Date:</b> Sreed 05/05/2015	<b>Checked by/Date:</b> J. Miller 5/5/2015			
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>   Aker Engineering & Technology AS Reg no. 879 817 552			<b>Signature/Date:</b> 12/05/2015 		

<b>w.h.tildesley ltd</b>	<b>Qualification Test Record (QTR) NORSOK M-650</b>		QTR. No.: 00020/VB
			Rev. No.1
<b>Manufacturer name/address/ Web page:</b>	WH TILDESLEY LTD, Bow Street, Willenhall, West Midlands UK, WV13 2AN <a href="http://www.whtildesley.com">www.whtildesley.com</a>		
<b>Reference standard</b>	NORSOK M-650, Edition 4		
<b>Material designation and MDS No.:</b>	ASTM A182 Gr. F55: UNS S32760: NORSOK M630 MDS D54, Revision 5.		
<b>Manufacturing Summary doc. No.:</b>	WHT Manufacturing Summary 00020/VB	Rev. No.:1	
<b>Products and manufacturing process(es):</b>	Closed Die Forged products: Valve components and fittings WHT Production Route 00020/VB		
<b>Mandatory conditions and sub-contractors:</b>	Hot rolled bar or billet to be sourced from NORSOK Qualified Manufacturer with current QTR for Material Grade MDS D57 latest revision All Heat Treatment to be carried out by Special Steels Ltd Woodbourn Hill, Sheffield: Furnaces AP1(Max Load 850Kg) or AP3 (Max Load 955Kg) All testing to be carried out by Special Testing Ltd, Bacon Lane, Sheffield		
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<b>Qualification expires:</b>	8 <sup>th</sup> April 2020		

### 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 Valve Components	00020/VB-F55A	76.2	76.2	8.1	16.2
Die-Forged fittings	00020/VB-F55B	40.0	44.0	1.23	2.5

### Qualification/acceptance signatures

<b>Manufacturer:</b>	<b>Prepared by 11/01/17</b> <i>S. Wood</i>	<b>Checked by 11/01/17</b> <i>J. Miller</i>
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>	<b>Signature/Date:</b> 13/01/2017 <i>Erling Ryge</i>	
 <b>Aker Solutions</b> <small>Aker Engineering &amp; Technology AS Reg.nr. 879 817 552</small>		