	Qualification Test Record (QTR) NORSOK M-650		QTR. No.: EM3404
			Rev. No.00:
Manufacturer name/address/ Web page:	Engemasa – Engenharia e Materiais Ltda. Ernesto Cardinalli 333 São Carlos SP 13571-390 BRAZIL www.engemasa.com.br		
Reference standard	NORSOK M-650, Edition 4		
Material designation and MDS No.:	ASTM A995 Gr.5A (UNS J93404); MDS D56, Revision 6.		
Manufacturing Summary doc. No.:	Engemasa Manufacturing Procedure Specification - Norsok 5A	Rev. No.:00	
Products and manufacturing process(es):	Sand Castings Centrifugal Castings Melting: Induction Furnace Heat treatment by: electrical furnaces : number 06 at Engemasa premisses or number 04 at Metaltrat premisses		
Mandatory conditions and sub-contractors:	<ul style="list-style-type: none"> • Melting charge using ingots refined by VOD, AOD or equivalent • Melting charge using pure metals and Ferro alloys • Welding process specification to be used WPS 312/23. 		
Other information:	Inspection and Test plan 085/2023 rev02 All qualification tests witnessed by TPI (TÜV NORD Brasil - BRTÜV) and Qualification Company (Gardner Denver Nash Brasil Indústria e Comércio de Bombas Ltda)		
Qualification expires:	Dec 2030		

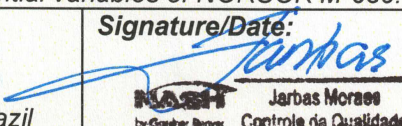
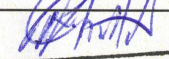
Tested and qualified thickness and weight

Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg
Sand Castings	Proaqt 01499/24	160	160	280	All
Centrifugal Castings	Proaqt 01934/24	180	180	275	All

Qualification/Acceptance Signatures

Manufacturer:	Prepared by/Date: Danielli de Brito Balbino	Checked by/Date: Daniel Moreira Guarnieri
Third Part Inspection (company name /address): TÜV NORD Brasil - BRTÜV Alameda Madeira, 222 – 3rd Floor - Alphaville BARUERI - SP 06454-010 - Brazil	Signature/Date: Eduardo Constancio IF-N1-AT SNQC 29064	

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): Gardner Denver Nash Brasil Indústria e Comércio de Bombas Ltda. Av Mercedes Benz 700 Campinas-SP 13054-750 Brazil	Signature/Date:  Jarbas Moraes Gerente de Qualidade	 REINALDO L. CHINELLATO Gerente de Produção - GD Nash
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