

Type Approval Certificate Extension

This is to certify that Certificate No. 03/20025 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	ACO Industries K.S. Havlickova 260 58222 Pribyslav Czech Republic
DESCRIPTION	Stainless steel (quality of material, grade: AISI 304 or 316 Ti) sanitary discharge pipes and form pieces with slip- in socket joints, seals from either EPDM or Viton
TYPE	Stainless Steel Sanitary Discharge Pipe Sytem
APPLICATION	As grey and black water, also vacuum, discharge system and scuppers above freeboard decks and below in enclosed spaces and machinery compartments without direct overboard connection, on ships and offshore installations classed or intended for Classification with Lloyd's Register
OPERATIONAL LIMITATIONS	<p>The stainless steel piping system could be accepted for use in sanitary systems above the freeboard deck.</p> <p>Any proposals to use this steel piping system below the freeboard deck will be specially considered.</p> <p>Where pipes pass through watertight bulkheads, fire bulkheads or shell plating, above the freeboard deck, details of the proposed penetration are to be forwarded for special consideration.</p> <p>The pipes are to be installed and secured to the satisfaction of the Society's Surveyor, taking vibration and expansion into consideration.</p>
SPECIFIED STANDARDS	Producer's works standard. Lloyd's Register Rules and Regulations for the Classification of Ships, 2007
Certificate No.	03/20025 (E1)
Issue Date	02 April 2008
Expiry Date	30 April 2013
Sheet	1 of 2

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Hamburg Design Support Centre
Lloyd's Register EMEA

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RATINGS

Sizes DN (mm): 50 75 110 125 160 200
Working press. (bar): - 0.6 to + 0.5
Temp. Range : EPDM 0°C to 125°C, Viton 0°C to 200°C

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. HMD 9984-03, Issue No. 1, dated 02 April 2008 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 03/20025 to which this extension should be attached.

Certificate No. 03/20025 (E1)
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Sheet 2 of 2


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