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Certificate No: LR2001907TA-01 Issue Date: 15 February 2023 Expiry Date: 20 February 2025

Reference: HTS/ENS 40468-20, Issue No. 1

LLOYD'S REGISTER TYPE APPROVAL - DESIGN APPRAISAL DOCUMENT

Issued by: HAMBURG TECHNICAL SUPPORT OFFICE (HPC 1961044)

Issued to: HKS GMBH

For: CORRUGATED STAINLESS STEEL HOSES

Type: SE, SZ

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System Procedure TA14 Version 04 (September 2020) and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

-	Application Checklist	19.08.2022
SE 6-80-DAGA-AGA-600-196	HKS hose	16.10.2019
SE 6-250-B-V-600-196	HKS hose	16.10.2019
SE 6-250-F-F-600-196	HKS hose	16.10.2019
SE 6-250-R-R-600-196	HKS hose	16.10.2019
SZ 6-80-DAGA-AGA-600-196	HKS hose	16.10.2019
SZ 6-250-B-V-600-196	HKS hose	16.10.2019
SZ 6-250-F-F-600-196	HKS hose	16.10.2019
SZ 6-250-R-R-600-196	HKS hose	16.10.2019
-	HKS Hoses – catalogue, pages 246 to 257	

TEST REPORTS

HPC1961044	Production Quality Assessment	23.12.2019
1	Burst pressure test type SE, DN25, 180 bar at HKS with Rina	21.02.2017
-	Prototype types SE and SZ several sizes including pressure tests with	11.09.2019
	1.5 x design pressure, vacuum test, burst pressure test with DNVGL	
Ar76245913_02	Prototype tests acc. DIN EN ISO 10380 and vibration tests aligned to	10.02.2012
	IACS including bending, leak tightness under water, U-bend-test with	
	standard (10 ⁴) cycles, vibration (10 ⁷ cycles) with pulsation pressure test	
	(5x10⁵), pressure, burst pressure, elongation, vibration with constant	
	pressure with TÜV Süd Garching, Germany	

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