

TYPE APPROVAL DESIGN CERTIFICATE

This is to certify:

That the **Positive Displacement Pumps - Reciprocating**

with type designation(s)
HDP-K3, K4 series High pressure common rail pump

Issued to

Heinzmann GmbH & Co. KG
Schönau im Schwarzwald, Baden-Württemberg, Germany

is found to comply with

ISO 19921:2005 Ships and marine technology – Fire resistance of metallic pipe components with resilient and elastomeric seals – Test methods

Application :

Common rail fuel injection system of combustion engines

Max. working press.: 16bar
Operating media: Diesel fuel and heavy fuel oil acc. to ISO 8217
Temperature range: Environment -20°C up to +80°C

Issued at **Hamburg** on **2022-11-24**

This Certificate is valid until **2027-11-23** .

DNV local unit: **Augsburg**

for **DNV**

Approval Engineer: **Hagen Markus**

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Sven Klinger
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Low-pressure fuel inlet pump housing including crank case made of aluminium alloy as part of the high-pressure liquid pump of series HDP-K3 and K4 series.

Drawings and parts list

Content	Document name
Assembly drawing	Hochdruckpumpe HDP-K3 1216 DI - 573-00-058-00
Parts list	Hochdruckpumpe HDP-K3 1216 DI - 573-00-058-00
	Hochdruckpumpe HDP-K3 1216 MFW - 573-00-037-00
	Hochdruckpumpe HDP-K4 2026 LAG-MOS – 574-00-014-00
	Struktur Stückliste HDP-K4-S 1420 – 575-00-02-01

Application/Limitation

Common Rail Fuel Injection System.

Test carried out

Fire resistance test acc. to test standard ISO 19921 and ISO 19922 both Edition 2016.

Type Approval documentation

Marking of product

Marking by name plate or engraving with at least the following details:

Scope	Example
Manufacturer name	
Pump indication	HDP-K3 1216 DI
Type	573-00-058-00
Serial number	S#YYMMXXXXX

Periodical assessment

Not applicable.