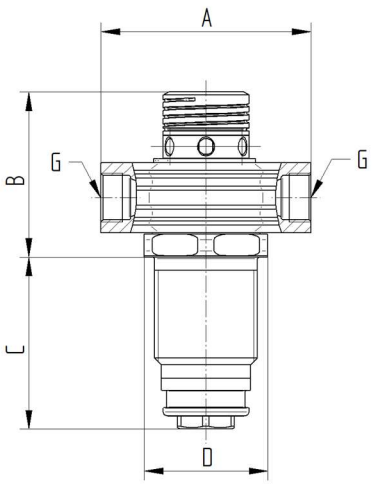
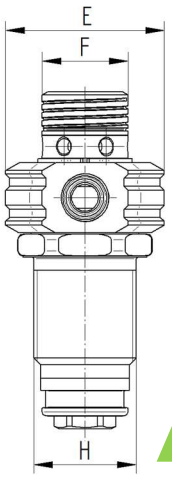
H2 TPRD 700 Endplug

K906-0





general information

product area	AlternativeFUELcontrol
application	TPRD thermally activated pressure relief device for H2 fuel systems with a service pressure up to 700 bar (10150 psi)
characteristics	• TPRD with glass bulb technology • shorter release times due to convection • weight-reduced aluminium design • rotatable outlet connection • the design enables an in-line assembly and thus, no additional fitting installation is required

dimensions

A	78 mm (3.07 inch)
B	61 mm (2.4 inch)
C	64 mm (2.52 inch)
D	HEX 46 AF (1.81 inch)
E	59 mm (2.32 inch)
F	32 mm (1.26 inch)
G	outlet port
H	vessel port

technical data

gas type	hydrogen (CHG)
release temperature	110 °C ± 10 °C (230 °F ± 18 °F)
vessel connection (H)	• 1 1/8-12 UNF-2A • 1 1/2-12 UNF-2A • 2-12 UNF-2A • M35x2 • M45x2
outlet port (G)	• 3/4-16 UNF-2B SAE J1926-1 • 9/16-18 UNF-2B SAE J1926-1 • 7/16-20 UNF-2B SAE J1926-1 • VOSS MM06-12
nominal working pressure (NWP)	700 bar @ 15 °C (10150 psi @ 59 °F)
maximum fuelling pressure (MFP)	875 bar @ 85 °C (12700 psi @ 185 °F)
orifice diameter	3.8 mm (0.15 inch)
temperature range	-40 °C to +85 °C (-40 °F to +185 °F)
Kv-value [m³/h] Cv-value [US-Gallons/min]	0.47 0.54
weight	approx. 560 g (approx. 1.3 lb)
activation	thermal
sealing type	axial or radial (on customer request)

materials

metals	• components in permanent contact with gas: AISI 316L (1.4404) • other: anodized aluminium
polymers	• o-rings: EPDM • support rings: NBR, PVDF

optional accessories

for the vessel connection: protection tube

certification & approval

- UN ECE-R134
- CSA/ANSI HPRD 1 on request
- CGA S-1.1-2022 conform
- 2014/68/EU PED in pending

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