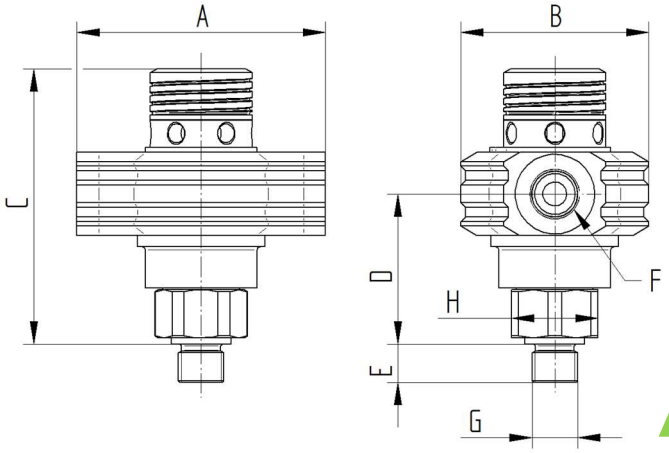
H2 TPRD 700 Middleplug with screw-in connector

K906-3.16.16.0



general information

product area	AlternativeFUELcontrol
application	TPRD thermally activated pressure relief device for H2 fuel systems with a service pressure up to 500 bar (7251 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 • assembly with screw in connector 9/16-18 UNF-2A SAE J1926-2

dimensions

A	78 mm (3.07 inch)
B	59 mm (2.32 inch)
C	86 mm (3.39 inch)
D	47 mm (1.85 inch)
E	12 mm (0.47 inch)
F	outlet port
G	inlet port
H	HEX 27 AF (1.06 inch)

technical data

gas type	hydrogen (CHG)
release temperature	110 °C ± 10 °C (230 °F ± 18 °F)
inlet port (G)	9/16-18 UNF-2A SAE J1926-2
outlet port (F)	9/16-18 UNF-2B SAE J1926-1
nominal working pressure (NWP)	500 bar @ 15 °C (7251 psi @ 59 °F)
maximum fuelling pressure (MFP)	625 bar @ 85 °C (9064 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. 447 g (approx. 1 lb)
activation	thermal

materials

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

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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