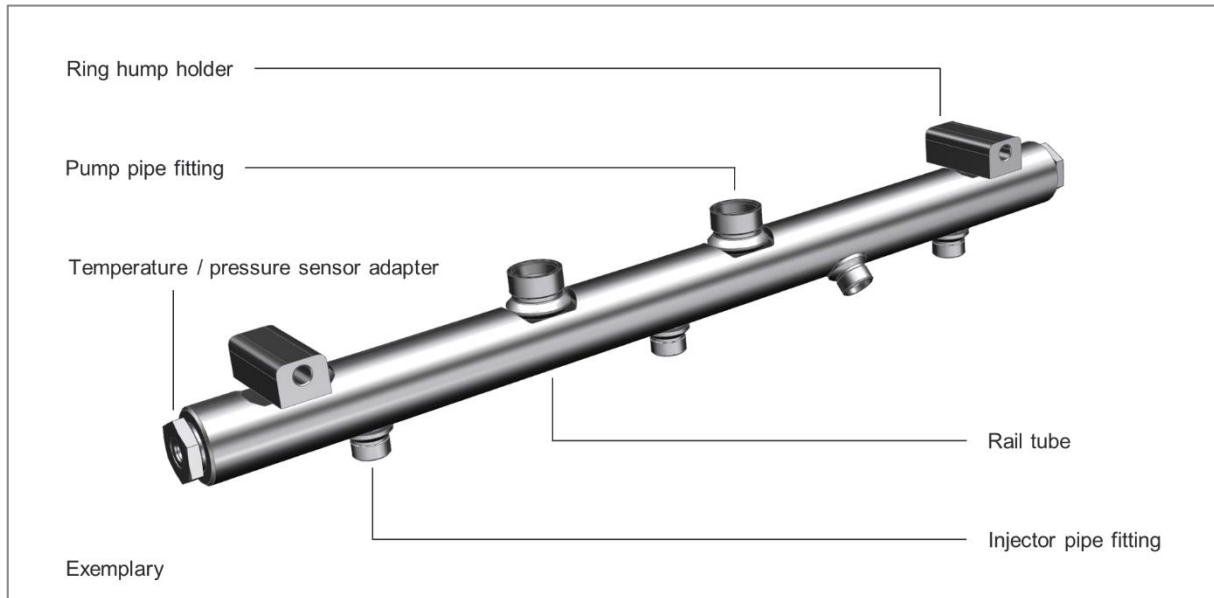


H₂ Rails for Direct Injection (DI) and H₂ distribution

Product specification

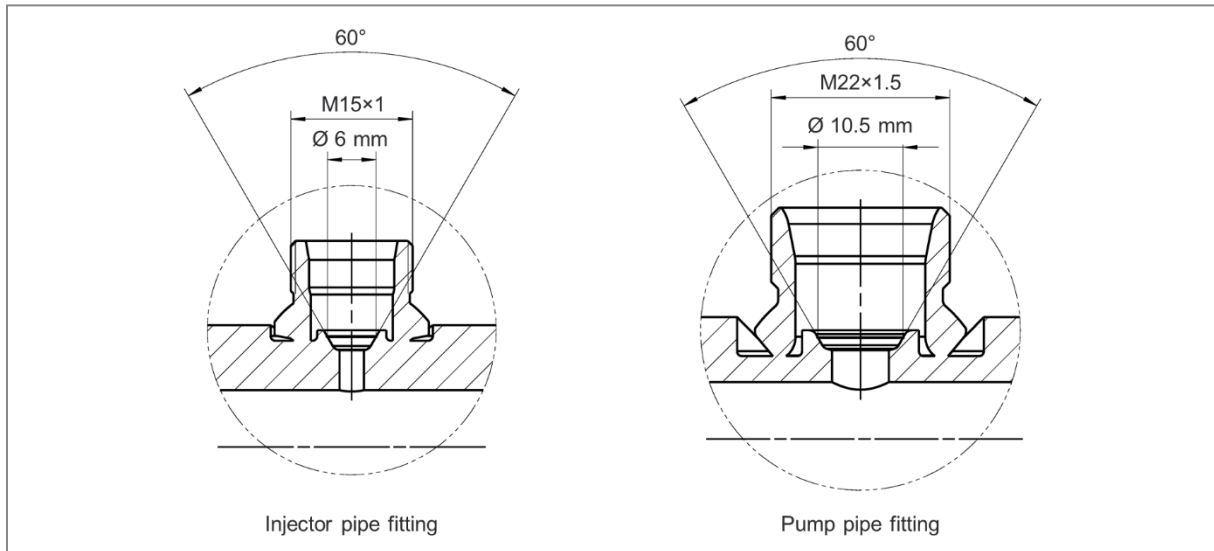


P+P's H₂ rails are used in direct injection processes to ensure the safe supply of hydrogen with an even distribution to the injectors while reducing pressure pulsations.

In order to homogeneously distribute the hydrogen to several storage tanks during the fueling process, they can also be used as distribution rails in storage and distribution systems of vehicles and stationary applications.

By varying the rail dimensions and numbers and positions of the pipe fittings, it is possible to meet the customer's specifications and installation space requirements in the best possible way.

Technical features



The following variants are currently under validation at P+P:

H ₂ Rails	
Technical data	
Inner railtube diameter (ID) for DI	14 mm
Outer railtube diameter (OD) for DI	30 mm
Length rail	exemplary 325 mm
Volume for DI	exemplary approx. 45 cm ³
Material	PPH2 ¹⁾
Surface protection	Zn-Ni
Sealing type	Metal-to-metal
Interfaces Thread definitions Attachment parts	
Pump pipe port (2x for pipes OD max. 10 mm)	M22x1.5-6g
Injector pipe port (4x for pipes OD max. 6.35 mm)	M15x1-6g
Temperature and pressor sensor	on request
Valves and filters	on request
Operating conditions	
Operating temperature	-40 to +120 °C
Nominal working pressure	up to 700 bar
Maximum allowed working pressure	on request
Medium	Hydrogen
Leakage rate	<10 Ncm ³ /h

1) PPH2 is a protected designation of the Poppe + Potthoff Präzisionsstahlrohre GmbH

Certification & safety information

The product may only be used after installation by qualified personnel according to the corresponding installation guide. Usage for production of commercial goods is only permitted in certified countries. Otherwise, the product may only be used for testing purposes.

Certificates

Europe

EC 79/2009 / EU406/2010 Certification pending

UN/ECE R134 Certification pending

Greater China (China, Taiwan, Hong Kong, Macau)

GB/T 35544-2017 Certification pending

EC 79/2009 / EU406/2010 Certification pending

North America (USA, Canada)

HGV 3.1-2015 Certification pending

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