Pure-H2

HYDROGEN FILTER

Technical Specification

Product Description

The John Crane Pure-H2 inline filter for hydrogen refueling applications is available in two sizes according to flow rate. Both units are rated for use with hydrogen fuel dispensers pressurized up to 1,000 bar. With a filter rating of 5 µm, the Pure-H2 filters ensure a contaminant-free hydrogen supply.

Units are manufactured using 1.4462 (318) stainless steel for precision and durability, with pleated glass-fiber fleece as the filter media for maximum filter area. The compact filter design uses standard connections and port sizes for simple inline installation and operation.

Application

- Hydrogen refueling stations
- Other designs on request including finer filtration rating

Operating Parameters/Design Conditions

Temperature:	-46° to 100°C/-51° to 212°F
Pressure:	1,035 bar/15,000 psi (design) *API 10000 reference*
Filter rating:	5 µm
Flow rate:	100/500 kg/h

Design Features

- Filtration rating to 5 µm and efficiency to 99.9% (ß5>1000)
- Easily replaceable filter element
- Standard versions for 100 kg/h and 500 kg/h
- Industry standard AUTOCLAV 3/16 and 9/16 connections

Product Range

H2 Filter Options	Flow Rate	Filter Area	Length	Diameter
Pure-H2-100	100 kg/h	75 cm^2	159 mm	76 mm AF
Pure-H2-500	500 kg/h	480 cm^2	259 mm	76 mm AF
R-Pure-100	100 kg/h	75 cm^2	Replacement element	
R-Pure-500	500 kg/h	480 cm^2	Replacement element	

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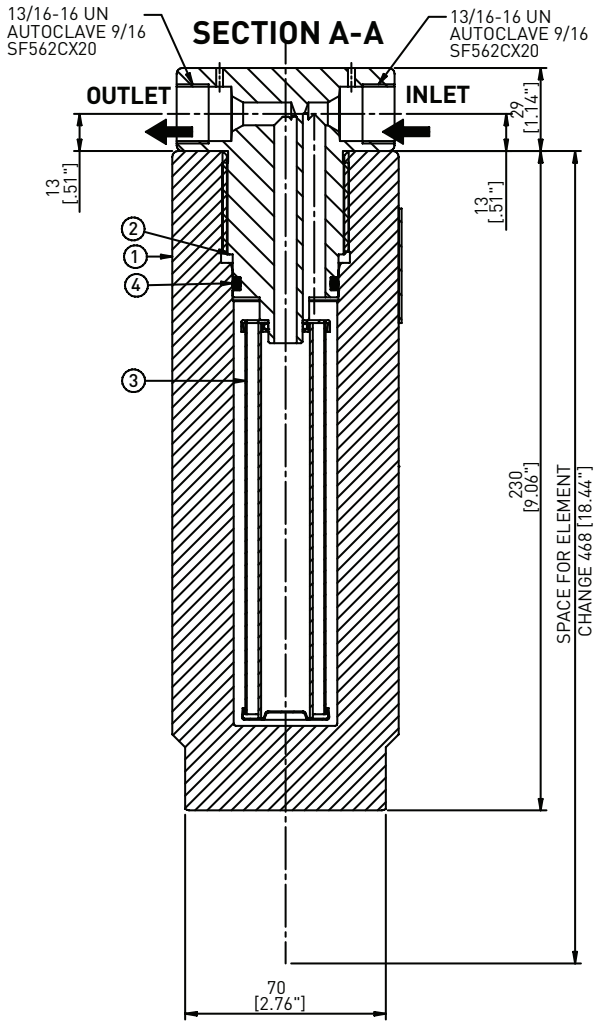

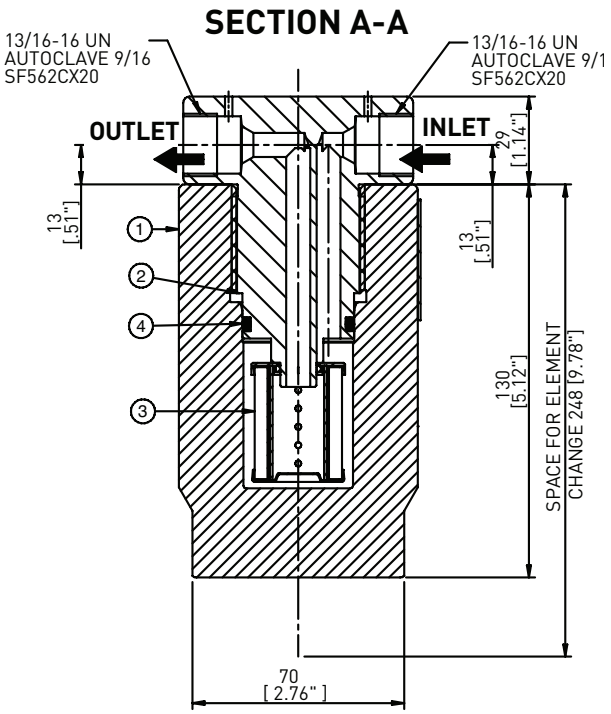

North America
United States of America
Tel: 1-847-967-2400

Europe
United Kingdom
Tel: 44-1753-224000

Latin America
Brazil
Tel: 55-11-3371-2500

Middle East & Africa
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Asia Pacific
Singapore
Tel: 65-6518-1800