

# High Pressure Hydrogen Hose

for highest safety at hydrogen filling stations and hydrogen transfer.



Parker Hydrogen Hose is designed to match the highest demands of high pressure hydrogen dispensing and transfer up to 103,5 MPa.

The hose has been specifically designed to offer the best level of reliability, robustness, safety and a long life cycle for critical hydrogen applications.

In combination with the high end hose fittings Parker offers a field proven solution which meets or exceeds the global hydrogen standards ISO 19880-5 and ANSI / CSA HGV 4.2 - pressure class H70. Parker is the first to offer a size -4 hose fully certified according ANSI / CSA HGV4.2.



## Contact Information

EMEA Product Information Centre  
Free phone: 00 800 27 27 5374  
(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

## Features & Benefits

- **No leakage due to perfect fit of hose and fittings especially at -40 °C**  
*Highest safety for extremely critical application*
- **Excellent reliability:**  
*High safety for extremely critical application*
- **Robust design & reliability for extended life cycle at fuel stations:**  
*Longer exchange intervalls of hose*
- **Extensive field tests - best performing hose in the market:**  
*Proven design in the application*
- **Tight bend radius:**  
*Convenient handling and installation in limited spaces*
- **High kink resistance:**  
*Minimizes risk of hose damage by end user*
- **Fast refueling at -40 °C application temperature:**  
*Low refilling time for end user*
- **Hose size -4: HGV 4.2 certification :**  
*First hose certified for HGV 4.2 to meet this market requirement*
- **Meets or exceeds ISO 19880-5:**  
*Hose meets highest market requirements*
- **Low permeation rates:**  
*Safety ( gas concentrations) & and loss of hydrogen*
- **Working pressure 103,5 Mpa:**  
*Additional safety in case of pressure peaks, exceeds H70 pressure requirements*



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## Hose Construction

### Core:

High Performance Polymer

### Reinforcement:

Steel wire

### Cover:

Polyamide, pinpricked

## Operating Parameters






### Temperature Range:

-40 °C up to +85 °C

### Relevant Standards:

ISO 19880-5 & ANSI / CSA HGV 4.2



Hose Options	 I.D. (mm)	 O.D. (mm)	 Max. working pressure MPA	Pressure Class according to HGV 4.2 / ISO 19880-5	 Weight kg/m	 min. Bend Radius mm	Standards
HGV70	6,4	13	103,5	H70	0,33	150	certified acc. ANSI/CSA HGV 4.2
H70-04	6,4	13	103,5	H70	0,33	150	meets or exceeds ISO 19880-5 & HGV 4.2
H70-08	13	22,7	96,25	H70	0,98	250	meets or exceeds ISO 19880-5 & HGV 4.2

- Factory made assemblies only
- Each assembly pressure tested

### Hose Assembly Nomenclature

HGV70-AY604C-xxxx

H70-AY604C-xxxx

H70-AY1108C-xxxx

xxxx = assembly length in mm

### Hose Fittings (stainless steel)

Hose size -4: M Type female 9/16 -18 UNF

Hose fittings size -8: M Type female 1-12 UNF

Other end configurations on request