



H₂ station

H₂
Hydrogen

HYDROGEN HOSES AND FITTINGS

Welcome to Our World of H2 Hose Assemblies

Since 2014, HSS has been a trusted manufacturer of high-performance hose assemblies. In 2024, we expanded our expertise into H₂ (Hydrogen) hose solutions, delivering advanced, reliable products tailored for the evolving needs of the automotive and industrial sectors. Our commitment to safety, quality, and innovation drives everything we do.



Contact HSS for Alternative Hose Configurations

149 H2 Refuel 7k

Thermoplastic hose H35 category for Hydrogen refuelling applications

Up to 500 bar (7000 psi).

Hybrid reinforcement

One braid of aramid fiber plus one braid of steel wire.

Passed all the tests in accordance with ISO 19880-5 for gaseous hydrogen hoses and hose assemblies for hydrogen fuelling stations.



Sr. no.	Hose I.D	Working Pressure	Test Pressure	Burst Pressure	Temp. Range	Fitting Material	Hose Material
1.	1/4"	500 BAR / 7000 PSI	750 BAR / 10500 PSI	2000 BAR / 28000 PSI	-40°C to +65°C	SS316 L	A. Inner Tube: Special Polyamide B. Hybrid Reinforcement: One braid of aramid fiber plus one braid of steel wire. C. Cover: Polyurethane, Turquoise, Pinpricked, Laser Branding.
2.	3/8"	500 BAR / 7000 PSI	750 BAR / 10500 PSI	2000 BAR / 28000 PSI	-40°C to +65°C	SS316 L	

DESCRIPTION

High pressure hose suitable for H2 refueling applications featuring conductive inner tube to dissipate static electric build up. Extra tough cover for abrasion water and micro biological resistance. Non metallic lightweight design for easy handling and manipulation. Rugged construction to give kink - crush - twist and pull resistance.

TEMPERATURE RANGE -40 °C to +65 °C (-40 °F to +149 °F). Accordingly to ISO 19880-5

AVAILABLE AS FACTORY MADE ASSEMBLIES: PLEASE CONTACT OUR SALES OFFICE FOR FURTHER DETAILS.

185 H2 Refuel 10k

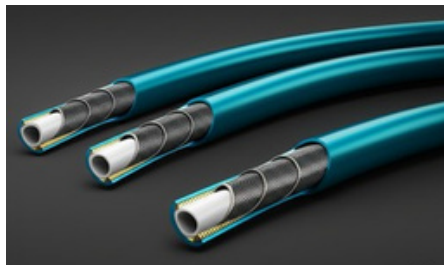
Thermoplastic hose H50 category for Hydrogen refuelling applications

Up to 700 bar (10000 psi).

Hybrid reinforcement

One braid of aramid fiber plus one braid of steel wire.

Passed all the tests in accordance with ISO 19880-5 for gaseous hydrogen hoses and hose assemblies for hydrogen fuelling stations.



Sr. No.	Hose I.D	Working Pressure	Test Pressure	Brust Pressure	Temp. Range	Fitting Material	Hose Material
1.	1/4"	700 BAR / 10000 PSI	1050 BAR / 15000 PSI	40000 PSI / 2800 BAR	-40°C to 65°C	SS316 L	A. Inner Tube: Special Polyamide B. Hybrid Reinforcement: One braid of aramid fiber plus one braid of steel wire. C. Cover: Polyurethane, Turquoise, Pinpricked, Laser Branding.
2.	3/8"	700 BAR / 10000 PSI	1050 BAR / 15000 PSI	40000 PSI / 2800 BAR	-40°C to 65°C	SS316 L	

DESCRIPTION

High pressure hose suitable for H2 refueling applications featuring conductive inner tube to dissipate static electric build up. Extra tough cover for abrasion water and micro biological resistance. Non metallic lightweight design for easy handling and manipulation. Rugged construction to give kink - crush - twist and pull resistance.

TEMPERATURE RANGE -40 °C to +65 °C (-40 °F to +149 °F). Accordingly to ISO 19880-5

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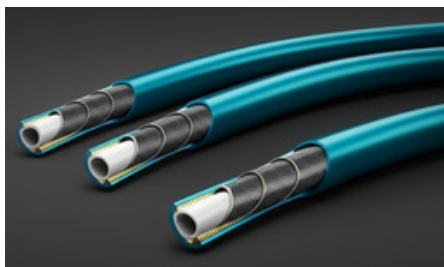
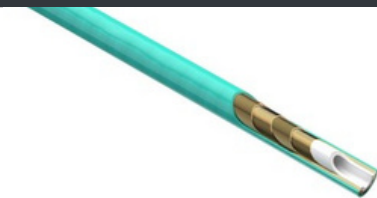
186 H2 Refuel 15k

Thermoplastic hose H70 category for Hydrogen refuelling applications up to 1040 bar (15000 psi).

Hybrid reinforcement

One braid of aramid fiber plus one braid of steel wire.

Passed all the tests in accordance with ISO 19880-5 for gaseous hydrogen hoses and hose assemblies for hydrogen fuelling stations.



Sr. No.	Hose I.D	Working Pressure	Test Pressure	Burst Pressure	Temp. Range	Fitting Material	Hose Material
1.	1/4"	1040BAR / 15000 PSI	1560BAR / 22500 PSI	4160BAR / 60000 PSI	-40°C to 65°C	SS316 L	Four spiral layers of steel wire

DESCRIPTION

High pressure hose suitable for hydrogen refueling applications. Extra tough cover for abrasion water and micro biological resistance. Rugged construction to give kink, crush, twist and pull resistance. Connection hose from dispenser to fuelling nozzle for gaseous compressed hydrogen. Use with hydrogen gas, high pressure, low-temperature ($\geq -40^{\circ}\text{C}$)

TEMPERATURE RANGE

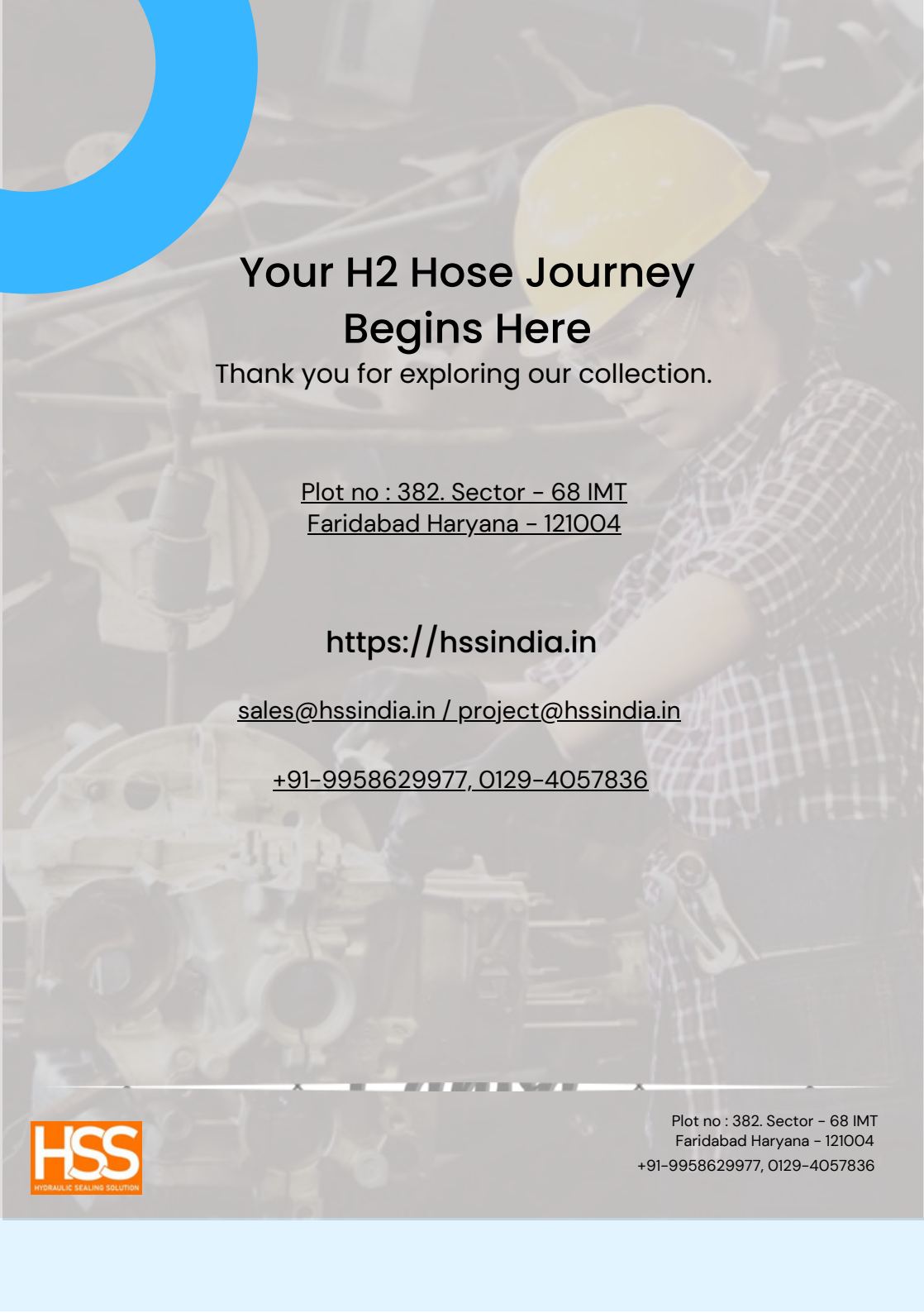
-40°C to $+65^{\circ}\text{C}$ (-40°F to $+149^{\circ}\text{F}$). Accordingly to ISO 19880-5

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H2 INSERTS

Stainless steel inserts specially designed for use with H2 Hose.

S. No.	Description	Thread size	DN Size	Dash Size	Hex Size	WP (PSI)	Hose No.
1	9/16" F-TYPE M HHC 1/4" 316L	9/16-18 UNF	DN6	-4	19	15,000	186
2	9/16" F-TYPE M VHP C 1/4" 316L	9/16-18 UNF	DN6	-4	19	10,000	185,149
3	7/16" F-JIC VHP C 1/4" 316L	7/16-20 UNF	DN6	-4	17	10,000	185,149
4	9/16" F-JIC VHP C 1/4" 316L	9/16-18 UNF	DN6	-4	19	10,000	185,149
5	1/2" F-JIC VHP C 1/4" 316L	1/2"-18 UNF	DN6	-4	17	10,000	185,149
6	3/4" F-JIC VHP C 3/8" 316L	3/4"-16 UNF	DN10	-6	22	10,000	185,149
7	7/8" F-JIC VHP C 3/8" 316L	7/8-14 UNF	DN10	-6	30	10,000	185,149
8	9/16" F-JIC VHP C 3/8" 316L	9/16-18 UNF	DN10	-6	19	10,000	185,149
9	3/8" M-MP LH H70 C1/4 316L	3/8-24 UNF LH	DN6	-4		15,000	186
10	1/4" F-BSPP VHP C 1/4" 316L	G 1/4"	DN6	-4	19	10,000	185,149
11	3/8" F-BSPP VHP C 3/8" 316L	G 3/8"	DN10	-6	22	10,000	185,149
12	1/4" M - BSPP VHP C 1/4" 316L	G1/4"	DN6	-4	19	10,000	185,149
13	3/8" M - BSPP VHP C 1/4" 316L	G3/8"	DN6	-4	22	10,000	185,149
14	3/8" M - BSPP VHP C 3/8" 316L	G3/8"	DN10	-6	22	10,000	185,149



Your H2 Hose Journey Begins Here

Thank you for exploring our collection.

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