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### **▼** Supply Reference – Hydrogen Fueling Station

- Incheon Airport T1, H2 Fueling Station
- H Incheon, H<sub>2</sub> Fueling Station

### Chungcheong-do

Incheon

- Sungil, H<sub>2</sub> Fueling Station
- Hyundai Steel, H<sub>2</sub> Fueling Station
- Cheongju Service Area, H<sub>2</sub> Fueling Station

### Gwangju

- Byeokjin,  $H_2$  Fueling Station



- Hamdeok Green, H<sub>2</sub> Fueling Station

### Gyeonggi-do

- Yangju-Hojeong, H<sub>2</sub> Fueling Station - Dugok, H<sub>2</sub> Fueling Station

### Gangwon-do

- Samcheok Gyodong, H<sub>2</sub> Fueling Station - Hoengseong, H<sub>2</sub> Fueling Station

### Gyeongsang-do

- Seongju, H<sub>2</sub> Fueling Station - Seoksan, H<sub>2</sub> Fueling Station
- Andong Rest Area, H<sub>2</sub> Fueling Station

#### Busan

- Dongsam-dong,  $H_2$  Fueling Station

#### Daejeon

- Jawundae, H<sub>2</sub> Fueling Station - Daejeon-Hakha, H<sub>2</sub> Fueling Station

### Daejeon

- Jeonju-Pyeonghwa, H<sub>2</sub> Fueling Station
- Jeonju-Songcheon, H<sub>2</sub> Fueling Station
- Saekang-dong LPG,  $H_2$  Fueling Station
  - Yeosu-Jusam, H<sub>2</sub> Fueling Station











#### **Head Offce & Factory**

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# **Total Energy Solutions**

### **▼** Gas Hydrogen

### 99.9 MPa Flow Control Valves

Model		HV-CO				
Fluid		Gas Hydrogen, He, O <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> , CH <sub>4</sub> , NH <sub>3</sub>				
Pressure Range		Up to 99.9 Mpa [ Up to 999 barg ]				
Working Temperature		-10 ~ 85°C				
Material	Body	Stainless Steel				
iviateriai	Trim	Stainless Steel				
Connection Size	Tube Size	1/4"	3/8"	9/16"	3/4"	
	Max. Cv	0.15	0.25	0.25	0.5	

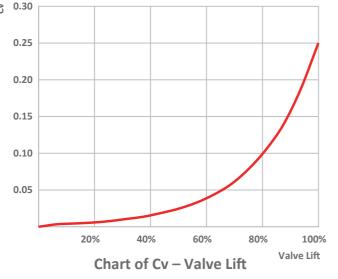


#### \* Stop valves without positioner also available.









### 99.9 MPa Flow Stop Valves

Model		HV-ST-01				
Fluid		Gas Hydrogen, He, O <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> , CH <sub>4</sub> , NH <sub>3</sub>				
Pressure Range		Up to 99.9 Mpa [ Up to 999 barg ]				
Working Temperature		-10 ~ 85°C				
Material	Body	Stainless Steel				
	Trim	Stainless Steel				
Connection Size	Tube Size	1/4"	3/8"	9/16"	3/4"	
	Max. Cv	0.15	0.25	0.25	0.5	



### 99.9 MPa Low Temperature Flow Stop Valves

Model		HV-ST-02				
Fluid		Gas Hydrogen, He, O <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> , CH <sub>4</sub> , NH <sub>3</sub>				
Pressure Range		Up to 99.9 Mpa [ Up to 999 barg ]				
Working Temperature		-40 ~ 85°C				
Material	Body	Stainless Steel				
iviateriai	Trim	Stainless Steel				
Connection Size	Tube Size	1/4"	3/8"	9/16"	3/4"	
Connection Size	Max. Cv	0.15	0.25	0.25	0.5	



### 99.9 MPa Line Check Valves

Model		HV-CH-01					
Fluid		Gas Hydrogen, He, O <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> , CH <sub>4</sub> , NH <sub>3</sub>					
Pressure Range	sure Range		Up to 99.9 MPa [ Up to 999 bar ]				
Working Tempera	ture	-18 ~ 85	5°C				
Material	Body	Stainless Steel					
Material	Trim	Stainless Steel + O-RING [ 90 Duro FKM ]					
Connection Size	Tube Size	1/4"	3/8"	9/16"	3/4"	1"	
Connection Size	Max. Cv	0.15	0.25	2.3	4.7	7.4	



### 99.9 MPa Filter

Model		HV-ST				
Fluid		Gas Hydrogen, He, O <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> , CH <sub>4</sub> , NH <sub>3</sub>				
Pressure Range		Up to 99.9 Mpa [ Up to 999 barg ]				
Norking Tempera	ture	-40 ~ 85°C	,			
Matorial	Body	Stainless Steel				
Material	Trim	Stainless Steel				
Connection Size	Tube Size	1/4"	3/8"	9/16"	3/4"	
	Max. Cv	0.15	0.25	0.25	0.5	



## **▼** Liquid Hydrogen

### **Emergency Shut-Off Valves**

Model		HV-EV	HV-EV		
Fluid		Liquid Hydroge	Liquid Hydrogen, LNG, LPG, LN2, LAr, LO2		
Pressure Range		Up to 2.0 MPa	Up to 2.0 MPa [ Up to 20 bar ]		
Working Tempera	orking Temperature		-273(-196) ~ 85°C		
	Body	Stainless Steel	Stainless Steel		
Material	Trim	Stainless Steel	Stainless Steel		
0 0.	DN	25	32	50	
Connection Size	PN		25		

\* Stop valves without positioner also available.

### Lift Check Valves

Model		HV-CH-02				
Fluid		Liquid Hydroge	Liquid Hydrogen, LNG, LPG, LN <sub>2</sub> , LAr, LO <sub>2</sub>			
Pressure Range		Up to 2.0 MPa	Up to 2.0 MPa [ Up to 20 bar ]			
Working Temperature		-273(-196) ~ 85°C				
Material	Body	Stainless Steel	Stainless Steel			
	Trim	Stainless Stee	Stainless Steel + PCTFE			
Connection Size	DN	10	15	25		
	PN		40			

☆ Cracking Pressure: 0.1 bar ± 30%

### Conventional Safety Relief Valves

Model		HV-SV-02			
Fluid		Liquid Hydrogen, LNG,	Liquid Hydrogen, LNG, LPG, LN2, LAr, LO2		
Setting Pressure I	Range	Up to 2.0 MPa [ Up to 20 bar ]			
Working Temperature		-273(-196) ~ 85°C			
Matarial	Body	A351 CF8M			
Material Trim		Stainless Steel			
Connection Size		Flange Rating	Inlet x Outlet		
		#150 x #150	1" x 2"		







