



+ H 29

# H29 | HIGH PRESSURE HYDROGEN BALL VALVE

700/1,000 bar | 10,000/15,000psi | ISO19880 | TPED\*



# H29 | HIGH PRESSURE HYDROGEN BALL VALVE

700/1,000 bar | 10,000/15,000psi | ISO19880 | TPED\*

The hydrogen valve H29 ball-valve series is designed and tested for high cycle use in fueling, storage and manufacturing systems.

The H29 ball valve series is optimized for durability in high-cycle controlled, actuated use and for the highest safety and environmental standards, based on Habonim's comprehensive experience and installed base in hydrogen fueling, storage and manufacturing systems.

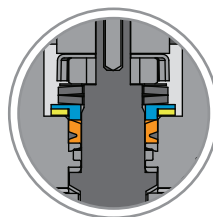
Tested in accordance to ISO19880:2018 Gaseous hydrogen – fueling stations and to TPED\*, the H29 is ready to be safely used in all systems of Hydrogen as a fuel.

Equipped with Habonim Total HermetiX integrity package, the H29 stands for the highest requirements for fugitive emission prevention, fire safety and process integrity.



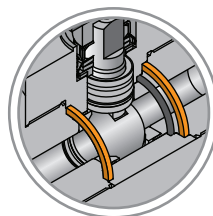
## Zero fugitive-emission stem sealing

- HermetiX stem sealing design with zero fugitive emission sealing capability.
- Tested according to ISO 15848-1 and API641 standards.
- Up to 500,000 cycles of operation with no maintenance.
- Field proven for millions of cycles.



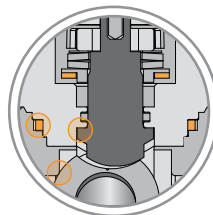
## Double body sealing

- Body double sealing for superior atmospheric sealing.
- Fugitive emission prevention.



## Fire safe

- Design compatible with API 607 and ISO 10497.
- Clean fire-safe construction guarantees no graphite contamination of the media flow.









## Inline superior sealing

100%	☆☆☆☆☆	100%
Materials & processing back tracking	Quality system approved for API 6D (No. 6D-1278), PED/TPED, SIL, ISO 9001	Tested

\* In process

## Technical Summary

 Total Hermetix™ | 
 Port:  Standard Port  Full Port | 
 End Connections:  Threaded  Cone & Thread  Welded

										Maximum Working Pressure				
Temp.*	Valve Type	Design Type	Series	TH	Port		End Con.			1/4"	3/8"	1/2"	3/4"	1"
	Ball (Quarter turn)	3 Piece	H29							700bar (10,000psi)				
										1,000bar (15,000psi)				

\*Working temperature: -60°C - +260°C (-76°F ÷ +500°F)

\*Working temperature: -60°C - +260°C (-76°F ÷ +500°F)

## Technical Information

### Design

- 3 pieces
- Actuator ready with ISO plate
- High Pressure Cone & Thread / Threaded / weld end connections
- High cycle fugitive emission fire-safe HermetiX stem seal
- Double body sealing

### Testing

- 100% shell & inline leak tested
- Marine classification (on demand): DNV GL, LR, BV, ABS, KR, RINA

### Features

- High working pressure up to:  
700 bar (10,000psi) / 1,000 bar (15,000psi)
- ISO19880-3:2018 Gaseous hydrogen – fueling stations valve, tested (using He)
- ISO 15848-1 and API641 fugitive emission, certified design
- ISO 10497 & API 607 fire safe, compliant design
- Seal materials:  
Seat seal – Virgin Peek  
Body seal – Viton, Expanded graphite





## About Habonim

Ball Valves & Actuators for the most demanding, challenging and hazardous applications are our passion and profession for the last 70 years.

We believe in designing, manufacturing and supplying control and shutoff components and solutions that improves the overall safety, integrity and sustainability of the systems they are installed in.

Designed, manufactured and tested according to the highest standards, our products allow us to partner within systems that flow and control varied gases and liquids in diverse markets especially where extreme temperatures and pressures are involved, hazardous materials are used and system performances are critical.

We are leading in cryogenic ball valve-based control solutions, emergency shutoff and specially designed solutions.

Believing that supplying and developing the most effective, safe and reliable products for the global leaders in the LNG and Gas distribution market continually challenges us to improve our capabilities and products.

Best coping with our prestigious customers' most challenging requirements technically, operationally and commercially is our promise fulfilled for decades.

### Performing in Demanding Applications



Habonim USA 1 866 261 8400 | Habonim EU +34 640 384 759 | Habonim Singapore +65 8127 0221 | Habonim China +86 21 58056370  
Habonim Israel +972 (0) 4 691 4911 | Habonim UK +44 1633 484554 | Habonim Australia +61 400 001 988 | [www.habonim.com](http://www.habonim.com)

