

BALL VALVES FOR H₂ & OTHER GASES



ENGINEERED FOR EXTREME PRESSURE



Haskel's high-pressure **Ball Valves** deliver unmatched reliability, safety, and performance for demanding industrial applications.

Built with advanced sealing technology and robust materials, these valves ensure zero fugitive emissions, fire-safe compliance, and long-term durability - even under the harshest conditions.

Why Choose Haskel Ball Valves?

- ✓ High Pressure Capability: Up to 15,000 psi for critical applications
- ✓ Total HermetiX™ Integrity: Certified for fugitive emissions and fire safety
- ✓ Fully ATEX & UKEX Certified: Approved under Directive 2014/34/EU for safe operation in potentially explosive atmospheres.
- ✓ Automation-Ready: ISO 5211 mounting for easy actuation
- ✓ Proven Durability: Tested to 16,000 cycles in accordance with ISO 19880-3
- ✓ Hydrogen-Ready: Materials and seals fully compatible with H₂ service

Applications: Hydrogen fueling systems, high-pressure gas control, industrial isolation, and critical safety environments.

Technical information

2H077 SERIES	2H157 SERIES
Maximum Working Pressure: 7,250 PSI (500 bar)	Maximum Working Pressure: 15,000 PSI (1,034 bar)
Working temperature: -76°F up to +392°F (-60°C up to +200°C)	Maximum Working Pressure TPED: 10,000 PSI (700 bar)*
TPED / TPE: -40°F up to +149°F (-40°C up to +65°C)*	Working temperature: -40°F up to +185°F (-40°C up to +85°C)

Testing & Certifications

2H077 SERIES	2H157 SERIES
TPED/TPE, according to ISO 23826*	ISO 19880-3: 2018 Gaseous hydrogen fueling
100% shell & inline leak tested	TPED/TPE certified according to ISO 23826*
ATEX & UKEX Certified: Approved under Directive 2014/34/EU	100% shell & inline leak tested
	ATEX & UKEX Certified: Approved under Directive 2014/34/EU

*TPED / TPE - Transportable Pressure Equipment Directive, according to ISO 23826

Design & Materials of Construction

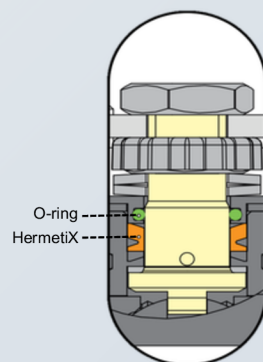
2H077 & 2H157 SERIES
Threaded body
Automation-ready with standard ISO 5211 connecting plate
Total HermetiX integrity package with: ISO 15848-1 and API 641 emission standard certificated design ISO 10497 and API 607 fire-safe standard certificated design Double body sealing
Stainless steel body & end adapters
HNBR O-rings
PEEK ball seals
Integral handle locking device on hand operated valves
All materials compatible for Hydrogen use

Double Stem Sealing

HermetiX patented stem seal is used with additional O-ring sealing.

The HermetiX polymeric, non-graphitic stem seal design is certified for ISO 15848-1 and API 641 fugitive emission prevention standards, tested with He. An additional O-ring stem seal is added as additional sealing point.

This design has been successfully tested to 16,000 open/close cycles in accordance with ISO 19880-3 and performs well in demanding hydrogen applications.



Registered EU Design
015025978-001

2H077 SERIES BALL VALVE

.44" Port

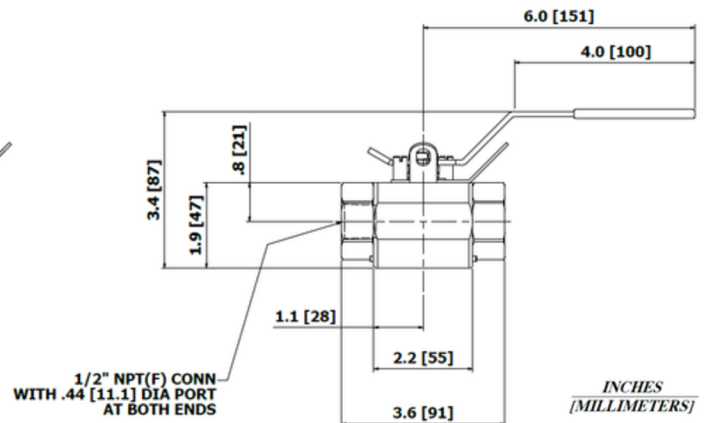
MAWP: 7,250 PSI

OPERATION	CATALOG NUMBER	CONNECTION	MAWP	BALL PORT	CV
Hand	2H077-H-H2-22-22	1/2" FNPT	7,250 PSI	.44"	21.95
Pneumatic	2H077-H-H2-22-22-C25SR2C	1/2" FNPT	7,250 PSI	.44"	21.95

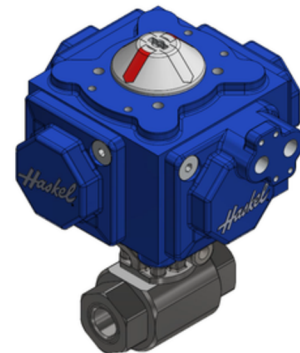
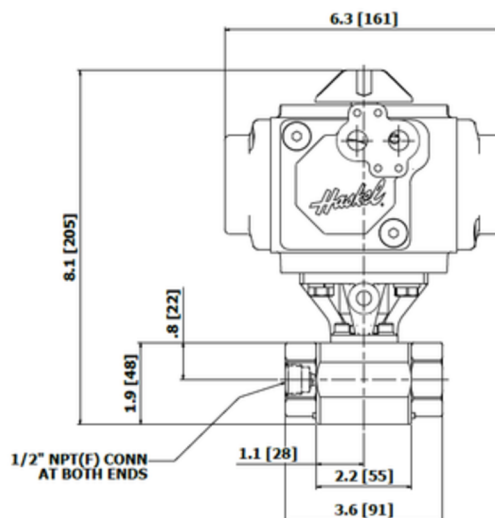
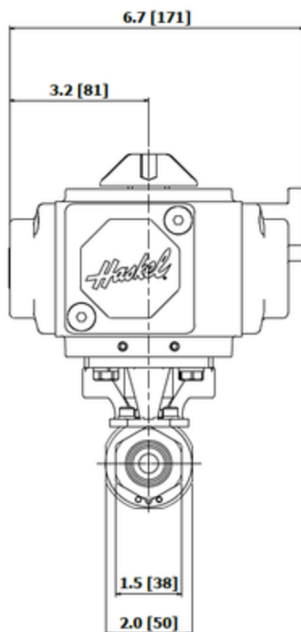
Optional connection sizes available upon special request

Hand-operated Valve Dimensions:

ISO 5211 Interface



Pneumatic Valve Dimensions



INCHES
[MILLIMETERS]

Disclaimer & Warning

It is always the system designer and the end-user responsibility to verify that all equipment used is properly selected to ensure safety and integrity of their systems. Haskel offers only general information based on common market knowledge and standard market adaptation for its valves. For each system and use, the system designer and end-user must consider the particular operating conditions, media parameters, and any other implications of their system for the proper selection of valves to be used.



Ready to learn more about how Haskel Valves
can meet your needs?

Scan to connect with our team.



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2H157 SERIES BALL VALVE

.44" Port

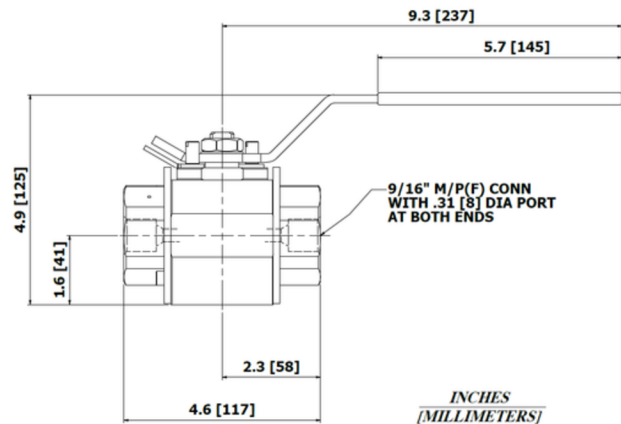
MAWP: 15,000 PSI

OPERATION	CATALOG NUMBER	CONNECTION	MAWP	BALL PORT	CV
Hand	2H157-H-H2-18-18	9/16" M/P female	15,000 PSI	.44"	4.39
Pneumatic	2H157-H-H2-18-18-C30SR2C	9/16" M/P female	15,000 PSI	.44"	4.39

Optional connection sizes available upon special request

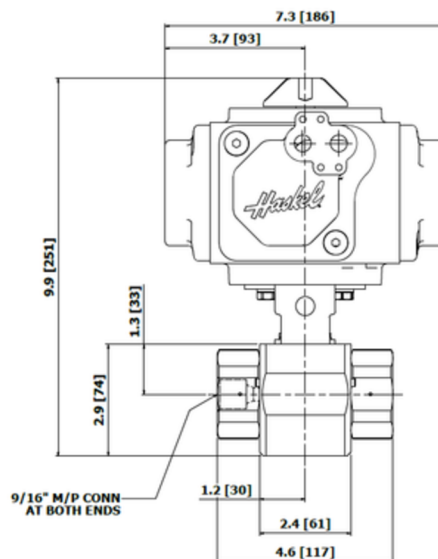
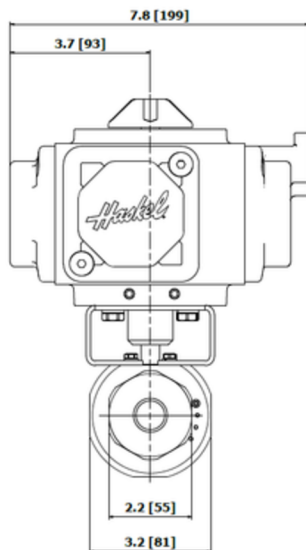
Hand-operated Valve Dimensions

ISO 5211 Interface

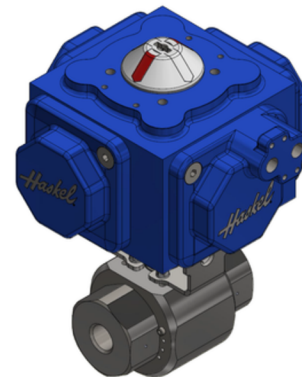


INCHES
[MILLIMETERS]

Pneumatic Valve Dimensions



INCHES
[MILLIMETERS]



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