

DAV-H-1700
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H-1700 series

Heavy Duty Ball Valves

SUMMARY

The H-1700 Series is a high-performance instrumentation ball valve for general service. The H-1700 series fits heavy duty service, thanks to its superior robust design, featuring ease of use and high cycle durability.

Features & Benefits

- Shut-off-service ball valve with 2-way pattern
- Stainless Steel 316 3-piece construction
- Blow-out Proof Stem
- Maximum allowed working pressure 6000 Psi (413 bar)
- Temperature: -40°F up to 500°F (-40°C - 260°C)
- Various end connection types and sizes from 1/8" to 1" (3mm to 25mm)
- High cycle performance
- Thermal cycle durability
- Low operating torque
- PEEK seat as standard – induced for high-pressure and high-temperature applications
- Excellent chemical resistance
- Large and ergonomic handle for better grip



Differentiation Advantage Value

Thermal cycle durability

D: H-1700 series validation included thermal-cyclic tests in 200°C, -40°C and room temperature at maximum allowed working pressure (6000 Psi). Competitors has lower durability to thermal cycles

A: Presenting the same performance level over temperature changes at high-pressure

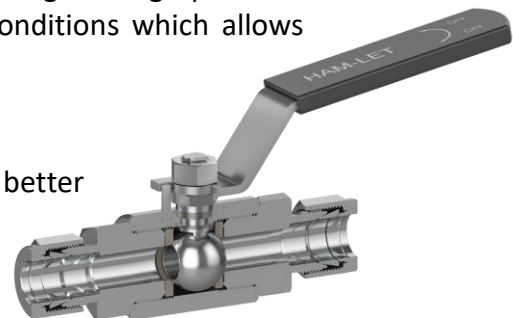
V: Improved operation and service under severe working conditions which allows longer life cycle that results in lower total cost of ownership

Ergonomic Handle

D: The H-1700 series features large and agronomic handle for better grip while working in the field; competitors offers smaller handles, less suitable for heavy duty service and operation

A: Better grip on the handle and more comfortable operation with gloves

V: ease of operation which doesn't require any additional extension tool assistance which prevents damage to valves



Construction Flexibility

D: The design of H-1700 series based on the customer selection of two end connections, thus allowing high flexibility for the customer design.

H-1700 series have wide range of ends connection: Let-Lok®, M/FNPT, ISO parallel, One-Lok Tube Fittings, etc. For example: the customer request inlet connection of male ISO parallel and outlet connection of Metal Gasket Face seal.

Competitor usually offers the narrow variety of end connectors on both sides

A: Reducing the need for additional connections and adaptors in the customer system

V: Increased system reliability with less potential leakage points, lower cost of procurement (no additional connectors or adaptors are needed)

Low operating torque

D: H-1700 has low torque of operation comparing to competitors

A: Easy to operate the valve under pressure

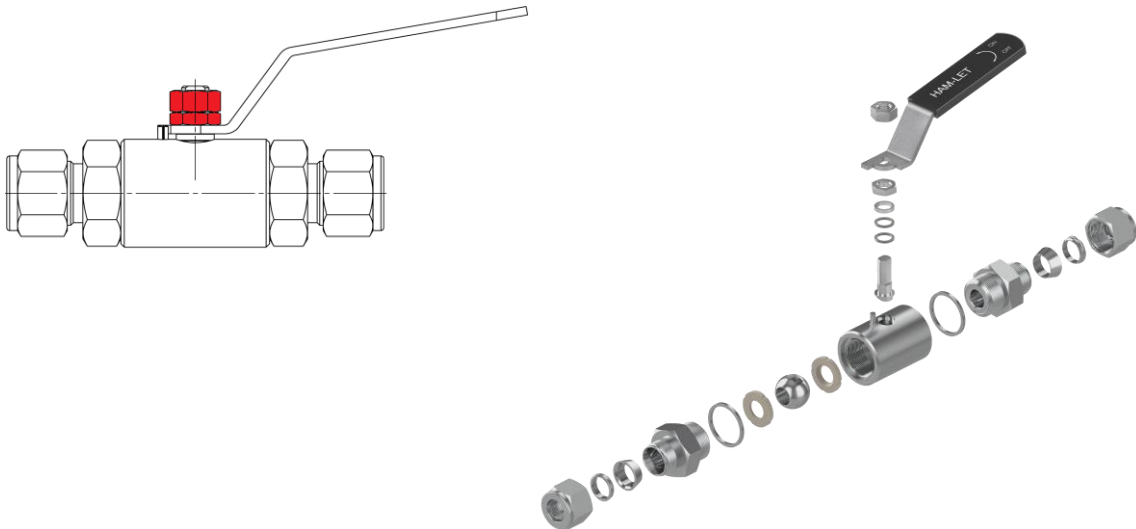
V: longer service life

Double locking nuts

D: The H-1700 series built with two locking nuts on the stem. Other manufacturers products are built with only one nut.

A: The H-1700U series enables to lock the stem with the handle, to ensure that there is no disengagement of the handle and stem.

V: long service life and high safety



Competition Comparison

Criteria	Ham-Let H-1700	PARKER Hi-Pro Ball Valve	SAMI SB-Simple ball valve
MAWP and MAWT	MAWP 6,000 psi MAWT 260°C	MAWP 6,000 psi MAWT 204°C	MAWP 6,000 psi MAWT 250°C
Packing material	PEEK	PEEK and PTFE	PEEK and PTFE
Size Range	1/8" up to 1"	1/4" up to 1"	1/4" up to 1"

How to select the most suitable high-pressure ball valve for my application?

	H-1700	H6800
Pressure	6000 PSI	6000 PSI
Temperature	-40°C to 260°C	-34°C to 260°C
RM	St.St 316	St.St 316, Monel, Alloy C-276, Super duplex
Seat	PEEK	PEEK, M. PTFE, PCTFE
End connectors types	Let-Lok, F/MNPT, BSPT	Let-Lok, F/MNPT, BSPP, BSPT, HTC
Size Range	1/8" up to 1/2"	1/16" up to 1"
Manual/Actuated	Manual	Manual + Actuated
Treatments	Oxygen Clean, Silicone Free	Oxygen Clean, Lubricant Free, Silicone Free
Orifice (mm)	2.3 - 10	1.3 – 10.3
Bore sealing style	Floating ball	Floating ball