

# HEAVY DUTY BALL VALVES

H-1700 SERIES



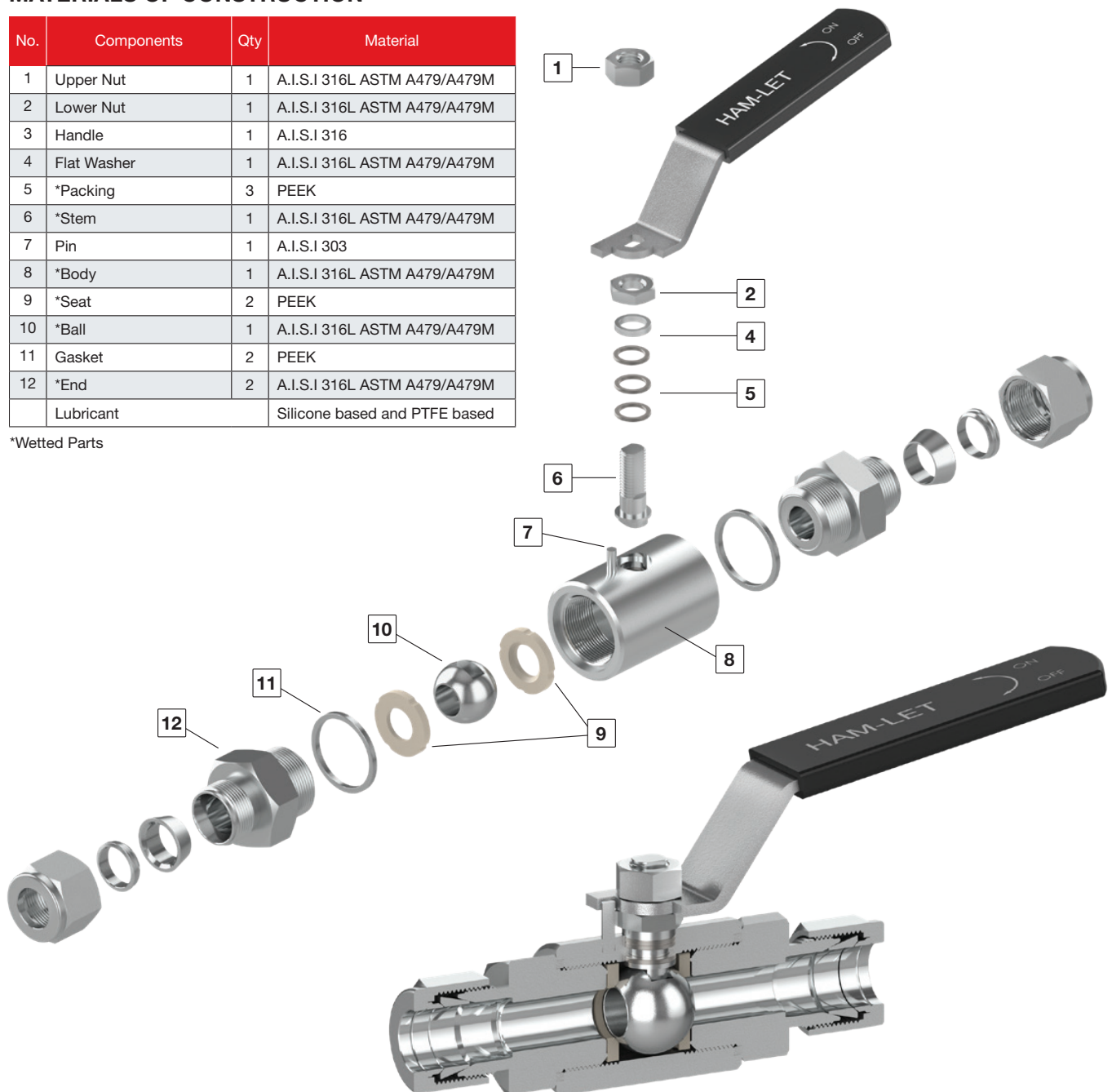
## H-1700 FEATURES

- 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 range: -40°C up to -250°C (-40°F-482°F)
- Various end connections types and sizes from 1/8" to 1/2" (3mm to 12mm)
- 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

## MATERIALS OF CONSTRUCTION

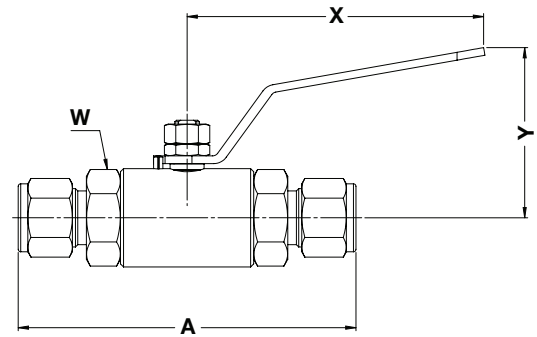
No.	Components	Qty	Material
1	Upper Nut	1	A.I.S.I 316L ASTM A479/A479M
2	Lower Nut	1	A.I.S.I 316L ASTM A479/A479M
3	Handle	1	A.I.S.I 316
4	Flat Washer	1	A.I.S.I 316L ASTM A479/A479M
5	*Packing	3	PEEK
6	*Stem	1	A.I.S.I 316L ASTM A479/A479M
7	Pin	1	A.I.S.I 303
8	*Body	1	A.I.S.I 316L ASTM A479/A479M
9	*Seat	2	PEEK
10	*Ball	1	A.I.S.I 316L ASTM A479/A479M
11	Gasket	2	PEEK
12	*End	2	A.I.S.I 316L ASTM A479/A479M
	Lubricant		Silicone based and PTFE based

\*Wetted Parts



## H-1700 GENERAL

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.



## H-1700 CONFIGURATION DIMENSIONS

size	End connection	orifice		A		X		Y		W
		mm	inch	mm	inch	mm	inch	mm	inch	
1/8	Let-Lok®	2.3	0.09	95.5	3.76	96	3.78	54.9	2.16	27
1/4		4.8	0.19	100.3	3.95	96	3.78	54.9	2.16	27
3/8		7.1	0.28	103.4	4.07	96	3.78	54.9	2.16	27
1/2		10	0.39	109.0	4.29	96	3.78	54.9	2.16	27
3mm	Let-Lok®	2.3	0.09	95.5	3.76	96	3.78	54.9	2.16	27
6mm		4.8	0.19	100.3	3.95	96	3.78	54.9	2.16	27
8mm		6.4	0.25	102.1	4.02	96	3.78	54.9	2.16	27
10mm		7.9	0.31	103.9	4.09	96	3.78	54.9	2.16	27
12mm		10	0.39	109.0	4.29	96	3.78	54.9	2.16	27
1/8	Female NPT/BSPT	7.8	0.31	77.7	3.06	96	3.78	54.9	2.16	27
1/4		10	0.39	77.7	3.06	96	3.78	54.9	2.16	27
3/8		10	0.39	77.7	3.06	96	3.78	54.9	2.16	27
1/2		10	0.39	77.7	3.06	96	3.78	54.9	2.16	27
1/8	Male NPT/BSPT	4.8	0.19	88.4	3.48	96	3.78	54.9	2.16	27
1/4		7.1	0.28	97.3	3.83	96	3.78	54.9	2.16	27
3/8		9.6	0.38	97.3	3.83	96	3.78	54.9	2.16	27
1/2		10	0.39	106.9	4.21	96	3.78	54.9	2.16	27

CLEANING & PACKAGING

Every H-1700 series ball valve is cleaned in accordance with standard cleaning and packaging (procedure 8184). Oxygen clean cleaning and packaging, in accordance with special cleaning and packaging (procedure 8185), is available as an option.

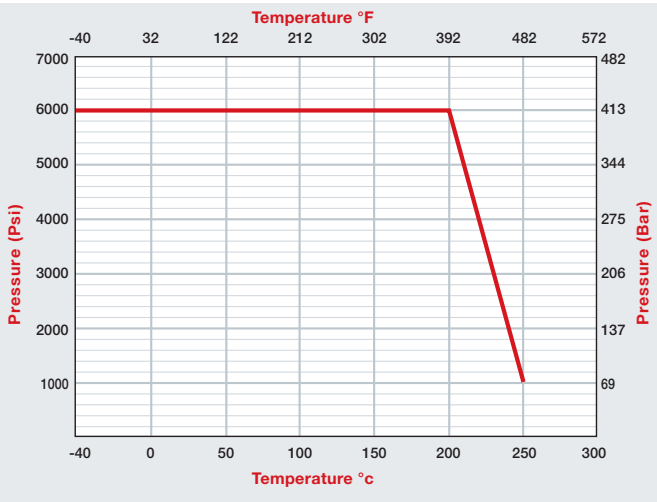
TESTING

The H-1700 design has been tested for burst and proof. Standard testing for each H-1700 valve includes leak testing through the shell, packing and ball seats, with nitrogen at two pressure rates - 80 & 1000 psig.

The maximum allowable leakage across the ball seats is 0.1 std cc/min.

**⚠ HAM-LET Ball Valves are designed for operation in the fully closed or fully open position.**

H-1700 PRESSURE TEMPERATURE RANGES



SEAT MATERIAL CHARACTERISTICS-PEEK (PolyEtherEtherKeton)

Excellent seat material for high-pressure and high-temperature applications. Excellent chemical resistance. Can be used continuously up to 482°F (250°C) and in hot water or steam without permanent loss in physical properties. High strength for hostile environments and high-pressure.

PACKING ADJUSTMENT

Due to the varied service applications of the valve, packing adjustment may occasionally be necessary. Packing is factory adjusted to 1000 psig service.

Please find more information on H-1700 under the installation instructions.

**⚠ Initial packing adjustment is recommended after installation and prior to start-up**

**⚠ Valve that have not been operated for a period of time will introduce a higher actuation torque**

H-1700 SERIES ORDERING INFORMATION

H-17

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00

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SS

-

L

-

1/4

-

OPTIONAL

Valve Series

Valve Type

00 - LET-LOK® End

10 - Female End

80 - Male End

85 - Male to Female End

95 - Male to LET-LOK® End

Material

SS - St.St.316

End Connection Type

L - LET-LOK® Tube Fitting

N - Threaded NPT

R - ISO Tapered

NL - NPT to LET-LOK®

LN - LET-LOK® to NPT

Other end connections are available upon request.

End Connection Size

1/8 3 MM

1/4 6 MM

3/8 10 MM

1/2 12 MM

Treatment

BLANK - Standard Cleaning & Passivation

OC - Oxygen Clean

SF - Silicone Free

**Warning!**  
The system designer and user have the sole responsibility for selecting products suitable for their special application requirements, ensuring their safe and trouble-free installation, operation, and maintenance. Application details, material compatibility and product ratings should all be considered for each selected product. Improper selection, installation or use of products can cause property damage or personal injury.