



HEAVY DUTY BALL VALVES

HAM-LET H-1700 SERIES

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- ✔ Heavy duty ball valve for general service
 - ✔ Working pressures up to 6000 psig (413 bar)
 - ✔ PEEK seat as standard – suitable for high-pressure and high-temperature applications



H-1700 FEATURES

- MAWP¹ 6000 psi (413 bar)
- Temperature range: -40°F up to 500°F (-40°C-260°C)
- On/off-service ball valve with 2-way pattern
- Blow-out proof stem
- Durable stainless steel construction
- Variable end connection types and sizes from 1/8" to 1" and 3mm to 25mm
- High cycle performance
- Thermal cycle durability
- Low operating torque
- Large and ergonomic handle for better grip
- Available Locking handle
- Manual and actuated operation

¹Maximum Allowed Working Pressure

H-1700 GENERAL

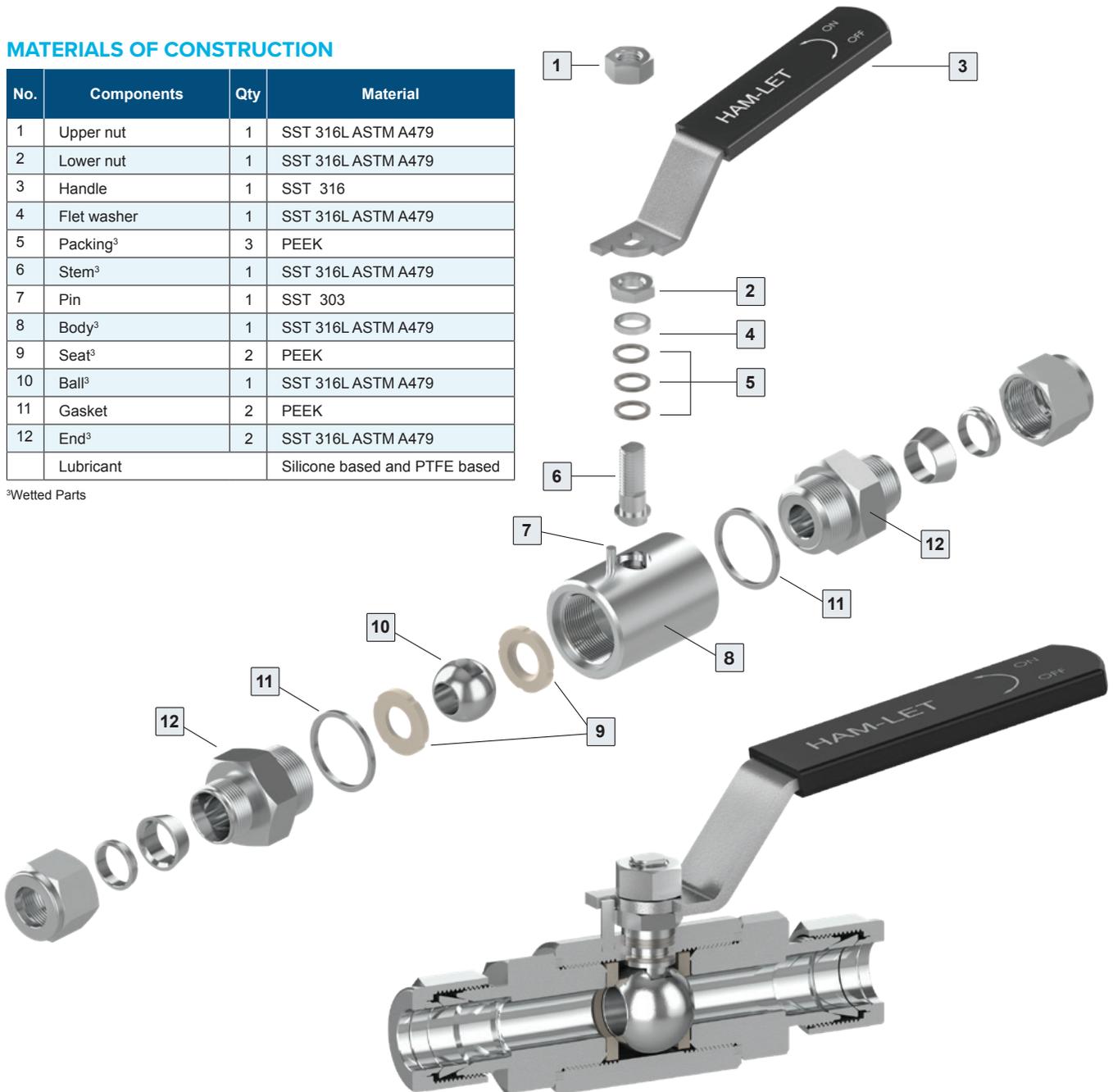
The H-1700 Series is a high-pressure and high-temperature instrumentation ball valve for general service.

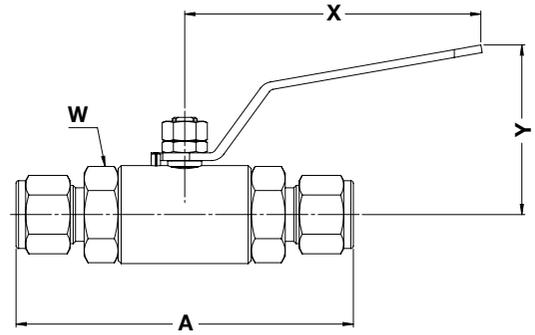
The H-1700 series is designed for heavy duty service due to its low operation torque, large and ergonomic handle for better grip and high cycle and thermal cyclic durability.

MATERIALS OF CONSTRUCTION

No.	Components	Qty	Material
1	Upper nut	1	SST 316L ASTM A479
2	Lower nut	1	SST 316L ASTM A479
3	Handle	1	SST 316
4	Flet washer	1	SST 316L ASTM A479
5	Packing ³	3	PEEK
6	Stem ³	1	SST 316L ASTM A479
7	Pin	1	SST 303
8	Body ³	1	SST 316L ASTM A479
9	Seat ³	2	PEEK
10	Ball ³	1	SST 316L ASTM A479
11	Gasket	2	PEEK
12	End ³	2	SST 316L ASTM A479
	Lubricant		Silicone based and PTFE based

³Wetted Parts





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
3/4"		15.8	0.62	162.6	6.40	149.1	5.87	86.4	3.40	46
1"		19	0.75	171.5	6.75	149.1	5.87	86.4	3.40	46
3 mm	LET-LOK	2.3	0.09	95.5	3.76	96	3.78	54.9	2.16	27
6 mm		4.8	0.19	100.3	3.95	96	3.78	54.9	2.16	27
8 mm		6.4	0.25	102.1	4.02	96	3.78	54.9	2.16	27
10 mm		7.9	0.31	103.9	4.09	96	3.78	54.9	2.16	27
12 mm		10	0.39	109.0	4.29	96	3.78	54.9	2.16	27
25 mm		19	0.75	171.5	6.75	149.1	5.87	86.4	3.40	46
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
3/4"		19	0.75	118.6	4.67	149.1	5.87	86.4	3.40	46
1"		19	0.75	118.6	4.67	149.1	5.87	86.4	3.40	46
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
3/4"		15.8	0.62	144.8	5.70	149.1	5.87	86.4	3.40	46
1"		19	0.75	154.4	6.08	149.1	5.87	86.4	3.40	46

CLEANING & PACKAGING

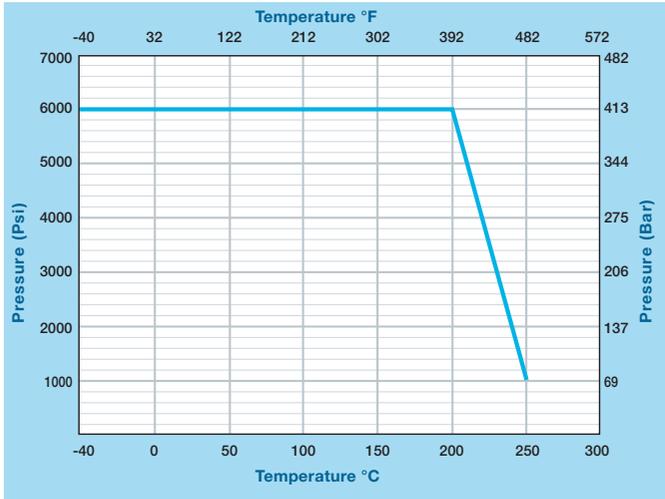
Every H-1700 series ball valve is cleaned in accordance with Standard Cleaning and Packaging (procedure 8184). Oxygen Clean Cleaning and packaging is in accordance with Special Cleaning and Packaging (procedure 8185) and is available as an option.

TESTING

The H-1700 design is tested for Burst and Pressure. Standard testing for each H-1700 valve includes testing with nitrogen at 80 & 1000 psig. Each valve is tested for leakage through the shell, packing and ball seats. The maximum allowable leakage across the ball seats is 0.1 std cc/min.

⚠ Ball Valves are designed for operation in the fully closed or fully open position.

H-1700 PRESSURE TEMPERATURE RANGES



SEAT MATERIAL CHARACTERISTICS PEEK (POLYETHERETHERKETON)

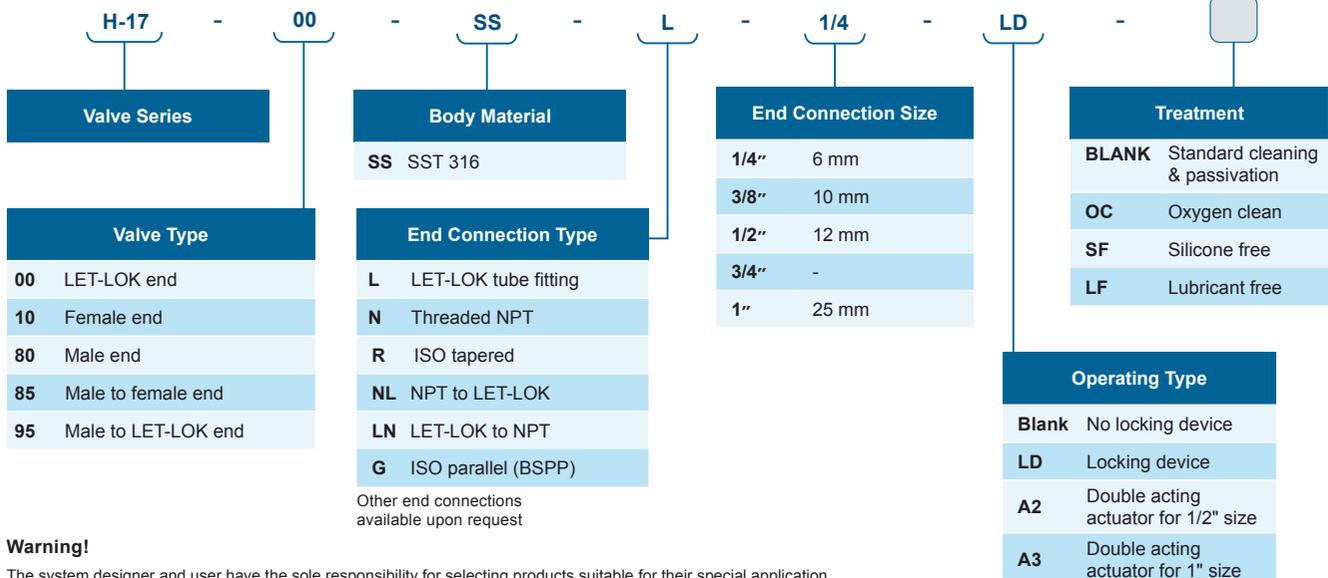
Excellent seat material for high-pressure and high-temperature applications. Excellent chemical resistance. Can be used continuously up to 500°F (260°C) and in hot water or steam without permanent loss in physical properties. High strength for hostile environments and high pressure.

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.

ORDERING INFORMATION H-1700 SERIES



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.