TWO-PIECE BALL VALVES

H-700 SERIES







FEATURES

- Certified for ISO 15848-1 :2006(E)
- Blow-out Proof Stem
- Stainless Steel construction
- Locking Handle in On and Off positions
- MAWP 2000 psi (137 Barg)
- MAWT 400°F (204°C)
- Flow coefficient (Cv) 1.25 to 17.35
- Size range: 1/4" to 1" or 6mm to 25mm

GENERAL

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The H-700 Series is a moderate-pressure ball valve for general purpose.

These valves are compact in size and structure.

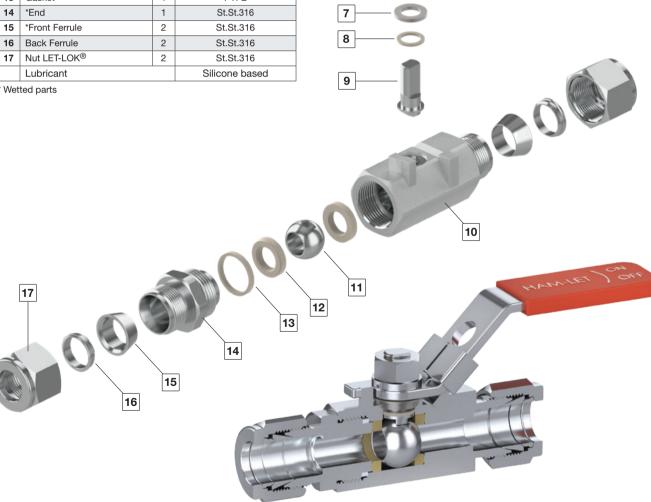
They have relatively large ports for a high flow, tight shut-off, a long service life, and a low operating torque.

The H-700 Series can be used for bidirectional flow in a fully open or fully closed position only. The series is rated at max pressure of 2000 psig (135 bar) and performs as on/off valve.

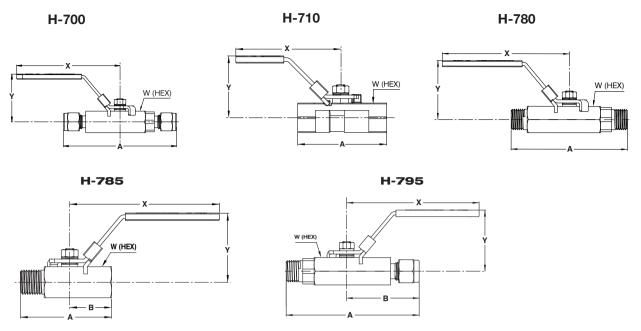
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MATERIALS OF CONSTRUCTION

۱o.	Components	Qty	Material					
1	Nut	1	St.St.304					
2	Spring Washer	1	St.St.304					
3	Handle	1	St.St.304					
4	Locking Device	1	St.St.304					
5	Belleville Washer	1	St.St.304					
6	Flat Washer	1	St.St.304					
7	Stem Packing	1	PTFE					
8	*Stem Seal	1	PTFE					
9	*Stem	1	St.St.316					
10	*Body	1	St.St.316					
11	*Ball	1	St.St.316					
12	*Seat	2	Modified PTFE					
13	Gasket	1	PTFE					
14	*End	1	St.St.316					
15	*Front Ferrule	2	St.St.316					
16	Back Ferrule	2	St.St.316					
17	Nut LET-LOK®	2	St.St.316					
	Lubricant	Silicone based						



STANDARD CONFIGURATION DIMENSIONS



Drawings ar	e for	referance	only.

End Connection		Valve Body Type Material	•	Cv	Oriffice		A		В		Х		Y		W (HEX)	
Type	Size				mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
	1/4		St.St. ASTM A-479	1.25	4.8	0.19	90	3.54	-	-	82	3.23	38	1.5	17	-
Fractional	3/8			2.5	7.2	0.28	90	3.54	-	-	82	3.23	40	1.57	21	-
Let-Lok®	1/2		ASTM A351 Gr.CF8M	9.25	9.2	0.36	95.3	3.75	-	-	82	3.23	40.7	1.6	25	-
Tube Fittings	3/4			12.65	12.5	0.49	113.4	4.46	-	-	82	3.23	44.5	1.75	32	-
	1			17.35	15	0.59	129.6	5.1	-	-	102	4.02	50	1.97	38	-
	6MM	H-700	St.St. ASTM A-479	1.25	4.8	0.19	90	3.54	-	-	82	3.23	38	1.5	17	-
Metric	8MM			1.35	4.8	0.19	90	3.54	-	-	82	3.23	40	1.57	17	-
Let-Lok®	10MM			2.6	7.2	0.28	90	3.54	-	-	82	3.23	40	1.57		13/16
Tube Fittings	12MM		ASTM A351 Gr.CF8M	9.25	9.2	0.36	95.3	3.75	-	-	82	3.23	40.7	1.6	25	-
	25MM			17.35	15	0.59	129.6	5.1	-	-	102	4.02	50	1.97	38	-
	1/4	H-710	ASTM A351 Gr.CF8M	1.35	5	0.2	50	1.97	-	-	67	2.64	47	1.85	16.5	-
	3/8			2.6	7	0.28	60	2.36	-	-	67	2.64	49	1.93		13/16
Female NPT	1/2			9.25	9	0.35	75	2.95	-	-	82.5	3.25	42.9	1.69	25	-
	3/4			12.65	12.5	0.49	59	2.32	-	-	85	3.35	44	1.73	32	-
	1			17.35	15	0.59	71	2.8	-	-	102	4.02	50	1.97	41	-
	1/4	H-780	St.St. ASTM A-479	1.35	5	0.2	75.0	2.95	-	-	82	3.23	38	1.5	17	-
Male NPT	3/8			2.5	7	0.28	75.0	2.95	-	-	82	3.23	40	1.57	21	-
	1/2		ASTM A351 Gr.CF8M	9.25	9.2	0.36	90.9	3.56	-	-	82	3.23	40.7	1.6	25	-
Male to Female	1/4	H-785	St.St. ASTM A-479	1.35	5	0.2	50	1.97	24.85	0.98	82	3.23	38	1.5	17	-
NPT	1/2		ASTM A351 Gr.CF8M	9.25	9	0.35	82.95	3.26	37.5	1.47	82	3.23	56.6	2.23	27	-
141 1	1			17.35	15	0.59	115.20	4.53	4.53	1.79	102	4.02	53	2.09		1-3/4
	1/4		95 ASTM A351 Gr.CF8M	1.25	5	0.2	77.56	3.05	45.0	1.77	82	3.23	38	1.5	17	-
Male NPT	3/8	H-795		2.5	7	0.28	79.46	3.13	45.0	1.77	82	3.23	40	1.57	21	-
to Let-Lok®	1/2			9.25	9.2	0.36	93.16	3.67	47.7	1.88	82	3.23	40.7	1.6	25	-
Tube Fittings	3/4			12.65	12.5	0.49	110.63	4.35	56.7	2.23	82	3.23	44.5	1.75	32	-
	1			17.35	15	0.59	127.4	50.01	64.8	2.55	102	4.02	50	1.97	38	-

Dimensions are for reference only and are subject to change without notice.

CLEANING & PACKAGING

Every H-700 series ball valve is cleaned in accordance with Standard Cleaning and Packaging (procedure 8184). Oxygen Clean & Lubricant-Free Cleaning and Packaging, in accordance with Special Cleaning and Packaging (procedure 8185), is available as an option.

Lubricant-Free cleaned valves have significantly higher actuation torque.

H-700 PRESSURE TEMPERATURE RATING Temp.(°C) -42 -18 93 149 204 260 2200 151.7 137.9 2000 124.1 1800 1600 110.3 Pressure (psig) 96.5 1400 1200 82.7 ssure 68.9 1000 55.2 **d** 800 41.1 600 27.6 400 200 13.8 0 0 -44 0 100 200 300 400 500

Temp. (°F)

TESTING

The H-700 design has been tested for burst and pressure. Standard testing for each H-700 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.

SEAT MATERIAL CHARACTERISTICS

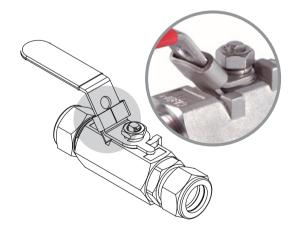
Modified PTFE-(PFA and PTFE composite)-Color: Bright white. Modified PTFE is an excellent seat material for purity applications and has a very low residual material during operation. It has a lower deformation ratio than PTFE, but a higher pressure and temperature rating. Chemical resistance is equal to PTFE material.

PACKING ADJUSTMENT

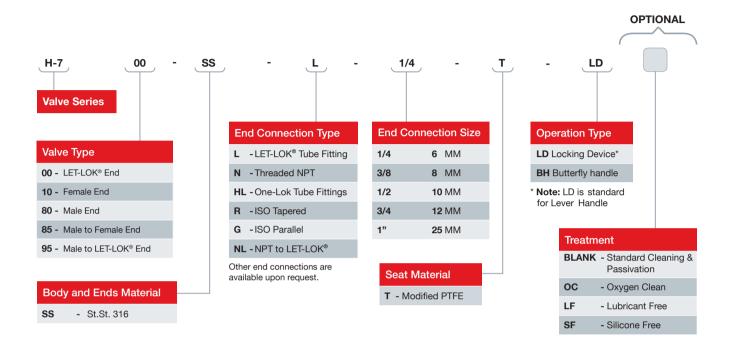
Due to the varied service applications of the valve, packing adjustment may occasionally be necessary. Packing is factory adjusted to 1000 psig service. Please find more information on H-700 under the installation instructions.

- Initial packing adjustment is recommended after installation and prior to start-up
- HAM-LET Ball Valves are designed to be operated in the fully closed or fully open position
- Valve that have not been operated for a period of time will introduce a higher actuation torque

LOCKING DEVICE MECHANISM



H-700 SERIES ORDERING INFORMATION



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.

H-700 | 2020_Rev00



