

## **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**

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

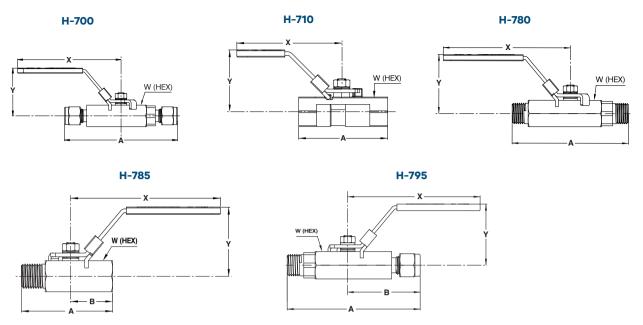
These valves are compact in size and structure.

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.

#### MATERIALS OF CONSTRUCTION

# STANDARD CONFIGURATION DIMENSIONS



Drawings	are	for	referance	only.

End Connection		Valve Type		Cv	Oriffice		A		В		х		Y		W (HEX)	
Type	Size				mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Fractional Let-Lok® Tube Fittings	1/4	H-700	SST ASTM A-479	1.25	4.8	0.19	90	3.54	-	-	82	3.23	38	1.5	17	-
	3/8			2.5	7.2	0.28	90	3.54	-	-	82	3.23	40	1.57	21	-
	1/2		ASTM A351 Gr.CF8M	9.25	9.2	0.36	95.3	3.75	-	-	82	3.23	40.7	1.6	25	-
	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	-
Tube Fittings 12MM	6MM	П-700	SST ASTM A-479	1.25	4.8	0.19	90	3.54	-	-	82	3.23	38	1.5	17	-
	8MM			1.35	4.8	0.19	90	3.54	-	-	82	3.23	40	1.57	17	-
	10MM			2.6	7.2	0.28	90	3.54	-	-	82	3.23	40	1.57	-	13/16
	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	-
Female NPT 1/2 3/4 1	1/4	H-710	ASTM A351 Gr.CF8M	1.35	5	0.2	50	1.97	-	-	60	2.64	47	1.85	16.5	-
	3/8			2.6	7	0.28	60	2.36	-	-	82	2.64	49	1.93	-	13/16
	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	-
Male NPT 3	1/4	H-780	SST ASTM A-479	1.35	5	0.2	75.0	2.95	-	-	82	3.23	38	1.5	17	-
	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	SST ASTM A-479	1.35	5	0.2	50	1.97	24.85	0.98	82	3.23	38	1.5	17	-
	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	-
	1			17.35	15	0.59	115.20	4.53	4.53	1.79	102	4.02	53	2.09	-	1-3/4
Male NPT 3 to Let-Lok 1 Tube Fittings 3	1/4	H-795 A		1.25	5	0.2	77.56	3.05	45.0	1.77	82	3.23	38	1.5	17	-
	3/8			2.5	7	0.28	79.46	3.13	45.0	1.77	82	3.23	40	1.57	21	-
	1/2		ASTM A351 Gr.CF8M	9.25	9.2	0.36	93.16	3.67	47.7	1.88	82	3.23	40.7	1.6	25	-
	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.

600

400

200

0

-44 0

#### 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 96.5 Pressure (psig) 1400 82.7 68.9 55.2 **d** 1200 1000 800

41.1

27.6

13.8

0

#### **TESTING**

The H-700 design is 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
- Valves that have not been operated for a period of time will introduce a higher actuation torque

# **LOCKING DEVICE MECHANISM**

100

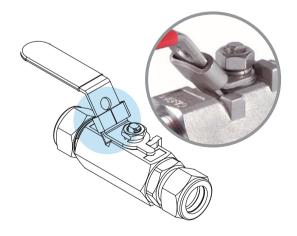
200

Temp. (°F)

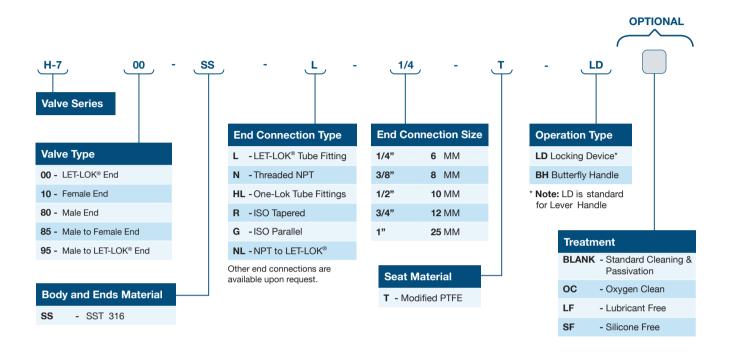
300

400

500



### H-700 SERIES ORDERING INFORMATION



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Two-Piece Ball Valves | June 2023

