COMPACT ONE PIECE BALL VALVES AND CYLINDRICAL VALVES

H800 SERIES





H-800 FEATURES

- Certified for ISO 15848-1:2006(E)
- Encapsulated Ball Stem design
- On/off-service, one-piece Ball Valve with 2-way pattern
- Diverter and on/off-service, one-piece Ball Valve with 3-way pattern
- Stainless Steel construction
- Allows bi-directional flow in 2-way straight pattern
- Has virtually no dead volume
- One-piece Ball Stem ensures alignment of stem and orifice
- MAWP 3000 psi (206 bar); MAWT 300°F (149°C)
- Panel mountable
- Vent options
- Variable end connection types and sizes from 1/16" to 1/2", 3mm to 12mm
- Operation with colored Nylon handles, metal handle and pneumatically actuated

H-800 GENERAL

The H-800, one-piece Ball Valve series is designed for general service and instrumentation panels. Valve design enables low and high working pressure and accommodates a wide temperature range with high life cycle.

One-piece body design reduces possibility of shell leakage. The valves offer tight shut-off, long-life service and low operating torque.

HAM-LET H-800 Ball Valves are designed for fully open or fully closed operations only. After a period of non-operation, the valve's braking torque may rise.

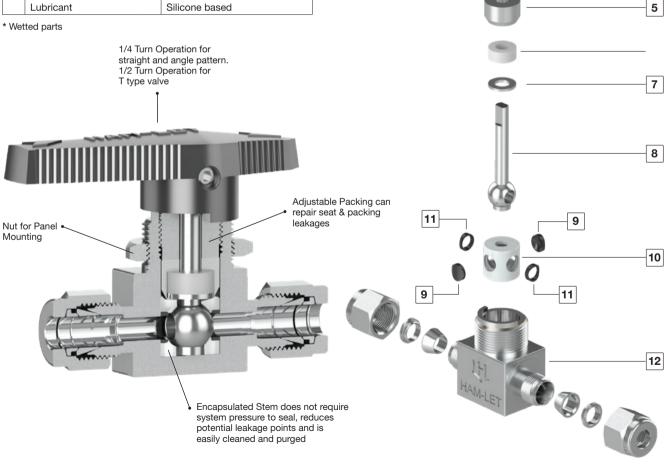
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MATERIALS OF

No.	Components	Qty	Material
1	Handle	1	Nylon + Glass Fiber
2	Set Screw	1	St.St.304
3	Panel Nut	1	St.St.304
4	*Packing Bolt	1	St.St.316
5	*Gland	1	St.St.304
6	*Stem Packing	1	Virgin PTFE
7	*Washer	1	St.St.304
8	*Ball Stem	1	St.St.316
9	*Seat Disc	2	St.St.304 (PTFE coated)
10	*Seat	1	PFA
11	*Seat Ring	2	St.St.304 (PTFE coated)
12	*Body	1	St.St. ASTM A351 Gr. CF8M
	Lubricant		Silicone based



H-800KL CYLINDRICAL VALVE FEATURES

- Certified for ISO 15848-1:2006(E)
- Encapsulated Cylindrical Stem design
- On/off-service, one-piece Cylindrical Valve with 2-way pattern
 Diverter and on/off-service, one-piece Cylindrical Valve with 3-way pattern
- Stainless Steel construction
- Allows bi-directional flow in 2-way straight pattern
- Has virtually no dead volume
- One-piece Cylindrical Stem ensures alignment of stem and orifice MAWP 3000 psi (206 bar); MAWT 300°F (149°C)
- Panel mountable
- Vent options
- Variable end connection types and sizes from 1/16" to 1/2", 3mm to 12mm
- Operation with colored Nylon handles, metal handle and pneumatically actuated

H-800KL GENERAL

The H-800KL, one-piece Cylindrical Valve series is designed for

service and instrumentation panels. Valve design enables low and high working pressure and accommodates a wide temperature range with high life cycle.

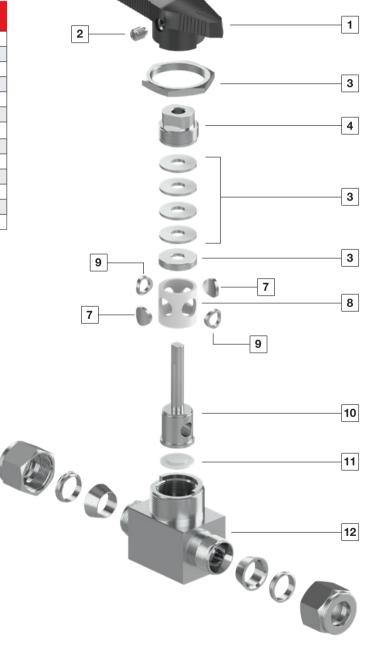
One-piece body design reduces possibility of shell leakage.

The valves offer tight shut-off, long-life service and low operating

MATERIALS OF CONSTRUCTION

No.	Components	Qty	Material
1	Handle	1	Nylon + Glass Fiber
2	Set Screw	1	St.St.304
3	Panel Nut	1	St.St.304
4	*Packing Bolt	1	St.St.316
5	*Belleville washer	4	coated S17700SS/A693
6	*Cap ring	1	St.St.304
7	*Seat Disc	2	St.St.304 (PTFE coated)
8	*Seat	1	PTFE
9	*Seat Ring	2	St.St.304 (PTFE coated)
10	*Cylindrical Stem	1	St.St.316
11	*Base Disc	1	PCTFE
12	*Body	1	St.St. ASTM A351 Gr. CF8M
	Lubricant		Silicone based

^{*} Wetted parts





TESTING

The H-800 design has been tested for burst and proof. Standard testing for each H-800 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.

CLEANING & PACKAGING

Every H-800 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.

PACKING ADJUSTMENT

Due to the varied service applications of the valve, packing adjustment may occasionally be necessary.

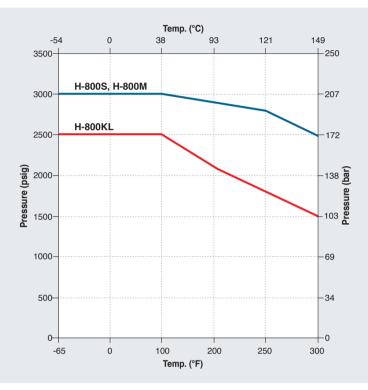
Packing adjustment for this valve can fix not only leakage through stem but also leakage through the seats.

Packing is factory adjusted to 1000 psig service. Initial adjustment is recommended after installation and prior to start-up.

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

- 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

PRESSURE TEMPERATURE RATING



For **LF** Services MAWP: Body size Large→500psi
Body size Small and Medium →1000psi

H-800 COLORED AND METAL HANDLES



MANUAL OPERATION

S - Black Handle*

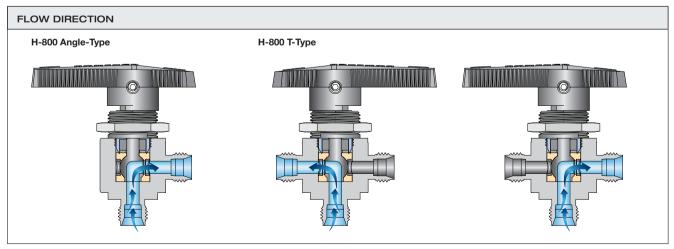
B - Blue Handle

R - Red Handle

G - Green Handle
Y - Yellow Handle

M- Metal Handle

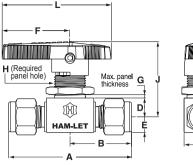
* Black Nylon handle is standard.



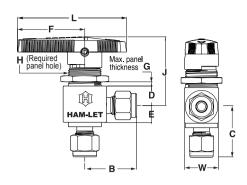
NOTE: Side entry is allowed and limted to 1500 psi for all sizes

STRAIGHT PORT VALVE & ANGLE PATTERN







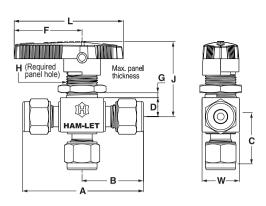


STANDARD CONFIGURATION DIMENSIONS

CIAND	A. 1D	00.	10	0.17		VIL	. 431	O.40																				
End Connec		ze	Ori	fice	CV straight	CV angle										DIM	IENS	SION	S									
Туре	Size	Body Size Designator					4	4	E	3		C gle)	I	D		E		=	ı	-	(G	(Dia	H ameter)	,	J	١	V
		ШĞ	mm	inch			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
	1/16		1.3	0.051	0.1	-	42.7	1.68	21.35	0.84	20.6	0.81																
	1/8	S	2.4	0.094	0.2	0.15	51.1	2.01	25.70	1.01	24.6	0.97	8.6	0.34	7.1	0.28	31.0	1.22	50	1.97	6.4	0.25	15.1	0.59	34.5	1.36	17	0.67
Let-Lok∘	4/4		3.2	0.126	0.6	0.35	56.1	2.21	28.05	1.10	27.2	1.07																
Imperial	1/4		4.0	0.400	1.4	0.9	60.7	2.39	30.50	1.20	29.7	1.17	44.0	0.44	0.7	0.00	00.0	4.50	-00	0.40	4.0	0.40	40.0	0.70	07.0	4 47	40.0	0.70
	3/8	М	4.8	0.189	1.5	0.9	65.5	2.58	32.75	1.29	32.8	1.29	11.2	0.44	9.7	0.38	38.9	1.53	63	2.48	4.8	0.19	19.8	0.78	37.3	1.47	19.8	0.78
	3/8	KL	7.1	0.279	6	2	77.5	3.05	38.60	1.52	36.3	1.43	14.2	0.56	14.2	0.56	50.8	2	82.3	3.24	9.5	0.38	28.6	1.13	52.6	2.07	28.4	1.12
	1/2	KL	7.1	0.219	6	4.6	83.12	3.27	41.56	1.63	39.16	1.54	14.2	0.56	14.2	0.56	50.8	2	82.3	3.24	9.5	0.38	28.6	1.13	52.6	2.07	28.4	1.12
	3mm	s	2.4	0.094	0.2	0.15	51.1	2.01	25.70	1.01	24.6	0.97	8.6	0.34	7.1	0.28	31.0	1.22	50	1.97	6.4	0.25	15 1	0.59	3/1.5	1.36	17	0.67
	6mm	Ü	3.2	0.126	0.6	0.35	56.1	2.21	28.05	1.10	27.2	1.07	0.0	0.04	7.1	0.20	01.0	1.22	30	1.57	0.4	0.20	10.1	0.00	07.0	1.00	17	0.07
Let-Lok®		м	4.8	0.189	1.4	0.9	60.7	2.39	30.35	1.20	29.7	1.17	11.2	0.44	9.7	0.38	38.9	1.53	63	2.48	4.8	0.19	198	0.78	37.3	1.47	19.8	0.78
Metric	8mm			0.100	1.5	0.9	62.5	2.46	31.25	1.23	30.5	1.2	1	0.11	0.7	0.00	00.0	1.00				0.10	10.0	0.70	01.0		10.0	0.70
	10mm	KL	7.1	0.279	6	2	78.0	3.07	38.90	1.53	36.3	1.43	14.2	0.56	14.2	0.56	50.8	2	82.3	3.24	9.5	0.38	28.6	1.13	52.6	2.07	28.4	1.12
	12mm	KL	7.1	0.219	6	4.6	83.12	3.27	41.56	1.63	39.16	1.54	14.2	0.56	14.2	0.56	50.8	2	82.3	3.24	9.5	0.38	28.6	1.13	52.6	2.07	28.4	1.12
	1/8	S	3.2	0.126	0.5	0.3	41.4	1.63	20.60	0.81	20.6	0.81	8.6	0.34	7.1	0.28	31.0	1.22	50	1.97	6.4	0.25	15.1	0.59	34.5	1.36	17	0.67
	1/0	м	4.8	0.189	1.2	0.7	50.8	2.00	25.40	1.00	25.4	1.00	11.2	0.44	9.7	0.38	38.9	1.53	63	2.48	4.8	0.19	19.8	0.78	37.3	1 47	19.8	0.78
F-NPT	1/4	141	7.0	0.100	0.9	0.75	52.3	2.06	26.20	1.03	26.2	1.03	11.2	0.44	9.7	0.38	38.9	1.53	63	2.48	4.8	0.19	19.8	0.78				0.78
		KL	7.1	0.279	3	1.7	63.5	2.50	31.75	1.25	31.75	1.25	14.2	0.56	14.2	0.56	50.8	2	82.3	3.24	9.5	0.38	28.6	1.13	52.6		28.4	1.12
	3/8		***	0.270	2.6	1.5	63.5	2.50	31.75	1.25	31.75	1.25	14.2	0.56	14.2	0.56	50.8	2	82.3	3.24	9.5	0.38	28.6	1.13	52.6	2.07	28.4	1.12
M-NPT	1/4				1.2	0.75	50.8	2.00	25.40	1.00	26.2																	
M-NPT to Let-Lok®	1/4	М	4.8	0.189	1.6	0.75	55.9	2.20	30.5	1.20	26.2	1.03	11.2	0.44	9.7	0.38	38.9	1.53	63	2.48	4.8	0.19	19.8	0.78	37.3	1.47	19.8	0.78
Female	1/4				0.9	-	52.3	2.06	26.15	1.03	26.15																	
ISO 7-1	3/8	KL	7.1	0.279	2.6	-	63.5	2.50	31.75	1.25	31.75	1.25	14.2	0.56	14.2	0.56	50.8	2	82.3	3.24	9.5	0.38	28.6	1.13	52.6	2 07	28.4	1.12
tapered	0,0										010	1.20	-			0.00										_	_	
O-Ring Face Seal	1/4	S	3.2	0.126	0.6	0.35	44.4	_	22.40		23.9	0.94	11.2				31.0	1.22	50	1.97		0.13		0.59		1.36		
race Seal		М	4.8	0.189	2.4	0.9	47.8	1.88	23.90	0.94			11.2	0.44	9.7	0.38	38.9	1.53	63	2.48	4.8	0.19	19.8	0.78	37.3	1.47	19.8	0.78
	4/4	S	3.2	0.126	0.6	0.35	E 4 4	0.10	07.05	1.00	07.7	1 00	11.2	0.44	0.7	0.00	31.0	1.22	50	1.97	3.2	0.13	15.1	0.59	34.5	1.36	19.8	0.78
Face Seal Male	1/4	М	4.8	0.189	2.4	0.9	54.1	2.13	27.05	1.06	27.7	1.09	11.2	0.44	1		38.9	1.53	63	2.48	4.8	0.19	19.8	0.78	37.3	1.47	19.8	0.78
iviale	1/2	KL	7.1	0.279	6	-	73.2	2.88	36.60	1.44	-	-	14.2	0.56	14.2	0.56	50.8	2	82.3	3.24	9.5	0.38	28.6	1.13	52.6	2.07	38.1	1.5
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Dimensions are for reference only and are subject to change.





STANDARD CONFIGURATION DIMENSIONS

End Connec		ce or	Ori	fice	CV									DIN	MENS	SIONS	5								
Туре	Size	Body Size Designator	mm	inch		A		В		(С		D		=	L		(à	(Dia	H ameter)	J		٧	V
						mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
	1/16		1.3	0.051	0.08	42.7	1.68	21.35	0.84	20.6	0.81														
	1/8	S	2.4	0.094	0.15	51.1	2.01	25.70	1.01	24.6	0.97	8.6	0.34	31.0	1.22	50	1.97	6.4	0.25	15.1	0.59	34.5	1.36	17	0.67
Let-Lok®	1/4		3.2	0.126	0.35	56.1	2.21	28.05	1.10	27.2	1.07														
Imperial	1/4	М				60.7	2.39	30.50	1.20	29.7	1.17														
	3/8	М	4.8	0.189	0.9	65.5	2.58	32.75	1.29	33.0	1.3	11.2	0.44	38.9	1.53	63	2.48	4.8	0.19	19.8	0.78	37.3	1.47	19.8	0.78
		KL	7.1	0.279	2	73.4	2.89	36.80	1.45	36.3	1.43	14.2	0.56	50.8	2	82.3	3.24	9.5	0.38	28.6	1.13	52.6	2.07	28.4	1.12
	1/2	KL	7.1	0.279	4.6	79.0	3.11	39.5	1.55	39.1	1.54	14.2	0.56	50.8	2.0	82.3	3.24	9.5	0.38	28.6	1.13	52.6	2.07	28.4	1.12
	3mm	S	2.4	0.094	0.15	51.1	2.01	25.70	1.01	24.6	0.97	8.6	0.34	31.0	1.22	50	1.97	6.4	0.25	15.1	0.59	34.5	1.36	17	0.67
	6mm	3	3.2	0.126	0.35	56.1	2.21	27.90	1.10	27.2	1.07	0.0	0.34	31.0	1.22	50	1.97	0.4	0.23	13.1	0.59	34.3	1.30	''	0.07
Let-Lok®	OIIIIII	М	4.8	0.189	0.9	60.7	2.39	30.50	1.20	29.7	1.17	11.2	0.44	38.9	1.53	63	2.48	4.8	0.19	10.8	0.78	37.3	1.47	19.8	0.78
Metric	8mm	141	4.8 0.189	0.103	0.8	62.5	2.46	31.25	1.23	30.5	1.2	11.2	0.77	50.5	1.00	00	2.40	7.0	0.13	13.0	0.70	07.0	1.71	13.0	0.70
	10mm	KL	7.1	0.070	2	73.4	2.89	36.80	1.45	36.3	1.43	14.2	0.56	50.8	2	82.3	3.24	9.5	0.38	28.6	1.13	52.6	2.07	28.4	1.12
	12mm	KL	7.1	0.279	4.6	79.0	3.11	39.5	1.55	39.1	1.54	14.2	0.56	50.8	2.0	82.3	3.24	9.5	0.38	28.6	1.13	52.6	2.07	28.4	1.12
	1/8	S	3.2	0.126	0.3	41.4	1.63	20.60	0.81	20.6	0.81	8.6	0.34	31.0	1.22	50	1.97	6.4	0.25	15.1	0.59	34.5	1.36	17	0.67
	1/4	М	4.8	0.189	0.75	52.3	2.06	26.20	1.03	26.2	1.03	11.2	0.44	38.9	1.53	63	2.48	4.8	0.19	19.8	0.78	37.3	1.47	19.8	0.78
F-NPT	1/4	KL	7.1	0.279	1.7	63.5	2.50	31.75	1.25	31.75	1.25	14.2	0.56	50.8	2	82.3	3.24	9.5	0.38	28.6	1.13	52.6	2.07	28.4	1.12
	3/8	NL	7.1	0.279	1.5	63.5	2.50	31.75	1.25	31.75	1.25	14.2	0.56	50.8	2	82.3	3.24	9.5	0.38	28.6	1.13	52.6	2.07	28.4	1.12
M-NPT to Let-Lok	1/4	М	4.8	0.189	0.8	60.7	2.39	30.50	1.20	26.2	1.03	11.2	0.44	38.9	1.53	63	2.48	4.8	0.19	19.8	0.78	37.3	1.47	19.8	0.78
Female	1/4				0.75	52.3	2.06	26.15	1.03	26.15															
ISO 7-1 tapered	3/8	KL	7.1	0.279	1.5	63.5	2.50	31.75	1.25	31.75	1.25	14.2	0.56	50.8	2	82.3	3.24	9.5	0.38	28.6	1.13	52.6	2.07	28.4	1.12
Face Seal	1/4	S	3.2	0.126	0.35	54.1	2.13	27.05	1.06	27.7	1.09	11.2	0.44	31.0	1.22	50	1.97	3.2	0.13	15.1	0.59	34.5	1.36	19.8	0.78
Male		М	4.8	0.189	0.9							11.2	0.44	38.9	1.53	63	2.48	4.8	0.19	19.8	0.78	37.3	1.47	19.8	0.78

Dimensions are for reference only and are subject to change.

H-800 - PNEUMATIC ACTUATED VALVES

FEATURES

- 90° Actuation for 2-way valves (Straight & Angle)
- 180° Actuation for T-type valves
- Actuators comply with industry standards for interface with ISO 5211, NAMUR and VDI/VDE 3845
- Actuated valves are available factory assembled or separately, actuator and mounting kits
- Limit switches, proximity sensors, position indicators, solenoid valves, and other accessories are available upon request
- Standard Temperature range: -32°C to 90°C (-25.6°F to 194°F)
- Optional: High Temperature, Low Temperature

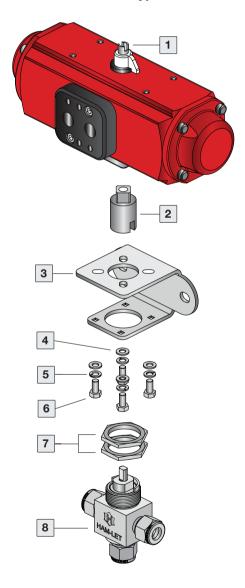
GENERAL

Four standard actuator sizes are available upon request:
Mini (designator "A1"), Small (designator "A2"), Medium
(designator "A3"), Large (designator "A4") and 180° actuator (designator
"A2T"). Improved operational speed enables better valve opening and
closing control. ATEX certification of Valves-Actuators assemblies are
available on request at the time of order quotation.

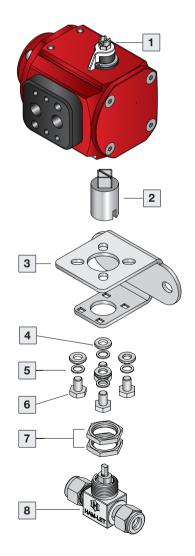
MATERIAL OF CONSTRUCTION

No.	Part	Qty	Material
1	Actuator	1	AL 356-T5
2	Coupling	1	St.St.316
3	Bracket	1	St.St.304
4	Washer Flat	4	St.St.304
5	Washer Spring	4	St.St.304
6	Screw	4	St.St.304
7	Panel Nut	2	St.St.316
8	H-800	1	St.St.316

180° Actuator on T-type valve



90° Actuator on 2-way valve



ACTUATED H-800 SERIES

HAM-LET PNEUMATIC ACTUATORS

The selection of Valve-Actuator assemblies provided herein is based on:

- · Valve maximum allowable working pressure
- Ambient temperature (50 to 100°F / 10 to 37°C)
- Actuator fits to valve based on operating pressure of 6 bar, as per table A.

To order H-800 ball valve factory assembled with an actuator, the actuator designator shall be added to the valve part number / description per the below table.

Example:

H-800S-SS-L-1/4 with standard Spring Return Aluminum Actuator Normally Closed H-800S-SS-L-1/4-A1C

To order an actuator and mounting bracket kit for field assembly: Spring Return Actuator ordering number: **Z-A1S** Corresponding mounting bracket kit:

Z-800S-MK-F03-F04-A1

Lubricant-Free Valves:

For spring return actuator - select one size bigger than offered in the table below. Example: If the offered actuator in the table is A2C, select A3C For double acting actuator - Please contact your local representative

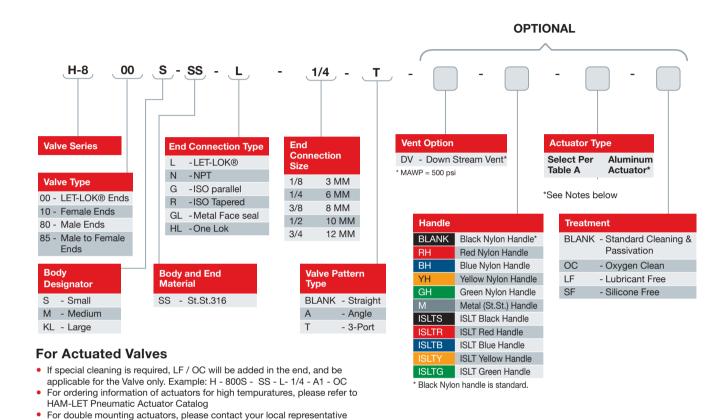
Table A: Ordering information for Actuated Valves

Series	Ends Size	Seats	Minimum Actuator		ctuator Des actory Ass	~		Ordering ode	Mounting Kit Ordering info
			Operating Pressure	Spring	Return	Double	Spring	Double	
			Bar (Psi)	NO	NC	Acting	Return	Acting	
	s			A10	A1C		Z-A1S		Z-800S-MK-F03-F04-A1
Н-800	М	PFA / PTFE	5 (72.5)	A10	A1C	A1	Z-A1S	Z-A1	Z-800M-MK-F03-F04-A1
Ė	KL	PIFE		A2O	A2C		Z-A2S		SR: Z-800L-MK-F03-F04-A2 DA: Z-800L-MK-F03-F04-A1
- 0	s								Z-800S-MK-F03-F04-A2
H-800 T-Type	М	PFA / PTFE	5 (72.5)	A2TS	A2TS	A2T	Z-A2TS	Z-A2T	Z-800M-MK-F03-F04-A2
主社	KL	11112							Z-800L-MK-F03-F04-A2

Note: For dimensions of Actuators assembled on the H-800 series, please refer to the HPA section.

Actuated valves- in cases the valve will be cycled less frequently than once per 3 days or more frequently than once per hour, please contact your Ham-Let representative.

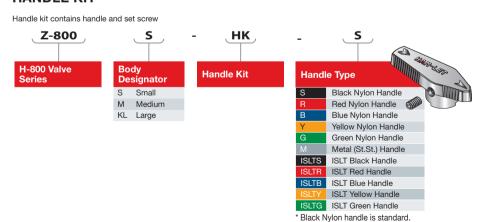
H-800 SERIES ORDERING INFORMATION



HANDLE KIT

local representative

LET Pneumatic Actuator Catalog



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 foreach selected product. Improper selection, installation or use of products

can cause property damage or personal injury.

Actuators Accessories (Limit Switch, Solenoid Valve please refer to HAM-

• For Stainless Steel Actuators or Electric Actuators please contact your

H-840/H850 FEATURES

- On/off-service ball valve
- Stainless Steel Constructions
- MAWP 2500 psi (172 bar)
- MAWT 300°F (149°C)
- Variable end connection sizes: Male Let-Lok 1/8; FNPT1/8; FNPT1/4
- · Operation with colored ISLT handle

H-850 GENERAL

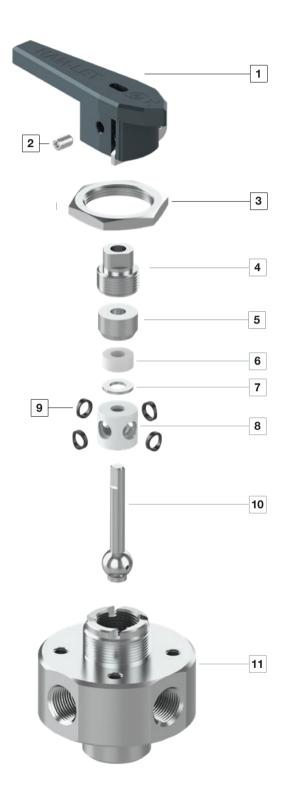
The H-84/50 one-piece Ball Valve series is designed for flow switched from multiple outlets and vice versa.

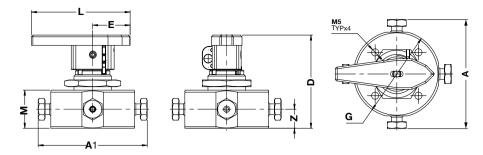
MATERIALS OF CONSTRUCTION

No.	Components	Qty	Material
1	Handle	1	Nylon + Glass Fiber
2	Set Screw	1	St.St.304
3	Panel Nut	1	St.St.304
4	*Packing Bolt	1	St.St.316
5	*Gland	1	St.St.304
6	*Stem Packing	1	Virgin PTFE
7	*Washer	1	St.St.304
8	*Seat	1	PFA
9	*Seat Ring	2	St.St.304 (PTFE coated)
10	*Ball Stem	1	St.St.316
11	Body	1	St.St. ASTM A351 Gr. CF8M
	Lubricant		Silicone based

^{*} Wetted parts



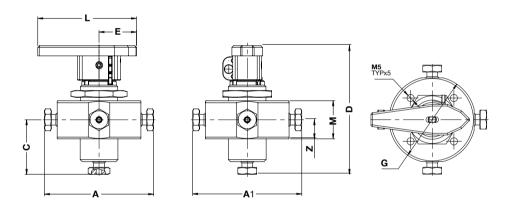




STANDARD CONFIGURATION DIMENSIONS

SIZE	End connection	Orifice	A/ <i>i</i>	A1	В		D		F		L		М		N		G	
			mm	In	mm	ln	mm In		mm	In	mm	In	mm	In	mm	ln	mm	ln
1/8"	Let-Lok®	2.30	64.10	2.52	32.05	1.26	54.80	2.16	36.00	1.42	58.00	2.28	22.40	0.88	11.20	0.44	50.80	2.00
1/8"	FNPT	4.80	48.40	1.90	24.20	0.95	54.80	2.16	36.00	1.42	58.00	2.28	22.40	0.88	11.20	0.44	50.80	2.00
1/4"	FNPT	4.80	48.40	1.90	24.20	0.95	54.80	2.16	36.00	1.42	58.00	2.28	22.40	0.88	11.20	0.44	50.80	2.00

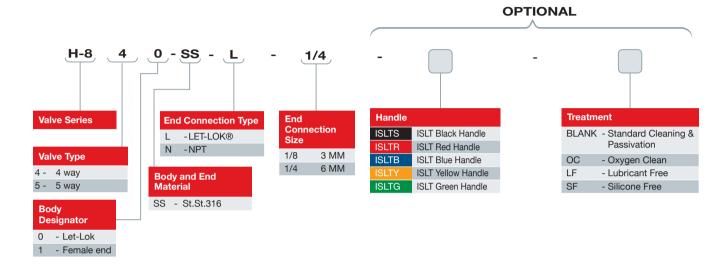
H850 5 WAY



STANDARD CONFIGURATION DIMENSIONS

SIZE	End connection	Orifice	A/A1		В		С		D		F		L		N	Л	N		C	
			mm	In	mm	In			mm	In										
1/8"	Let-Lok®	2.30	64.10	2.52	32.05	1.26	32.10	1.26	75.60	2.97	36.00	1.42	58.00	2.28	22.40	0.88	11.20	0.44	50.80	2.00
1/8"	FNPT	4.80	48.40	1.90	24.20	0.95	24.20	0.95	75.60	2.97	36.00	1.42	58.00	2.28	22.40	0.88	11.20	0.44	50.80	2.00
1/4"	FNPT	4.80	48.40	1.90	24.20	0.95	24.20	0.95	75.60	2.97	36.00	1.42	58.00	2.28	22.40	0.88	11.20	0.44	50.80	2.00

H-840/H850 ORDERING INFORMATION



H-800 | 2019_Rev00