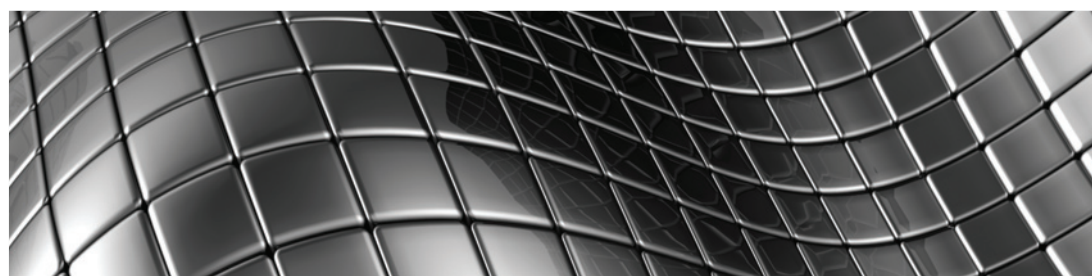


HIGH PERFORMANCE BALL VALVES

H-6800 SERIES



H-6800 FEATURES

- On/off-service ball valve with 2-way pattern
- Diverter-service ball valve with 3-way pattern
- Stainless Steel and Brass construction
- MAWP* 6000 psi (410 bar)
- MAWT* 500°F (260°C)
- Variable end connection types and sizes from 1/16" to 3/4" (3mm to 18mm)
- Operation with colored Nylon handles, metal handle color anodized aluminum ISLT** (locking device) handles and pneumatically actuated.

* Maximum Allowed Working Pressure, Maximum Allowed Working Temperature.
** ISLT – Integral Safety Lock-out Tag-out Patent pending

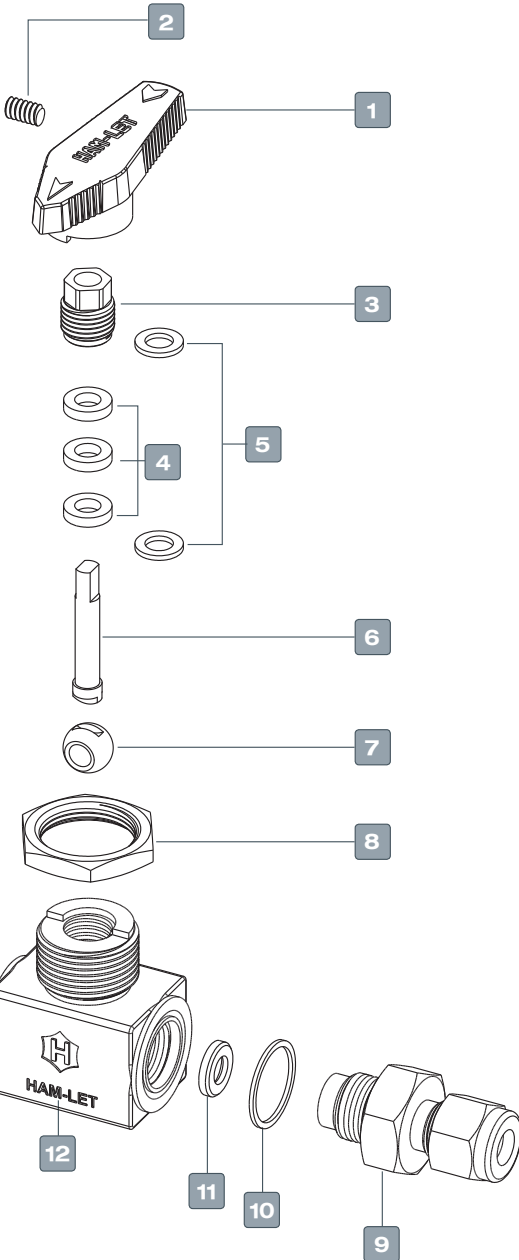
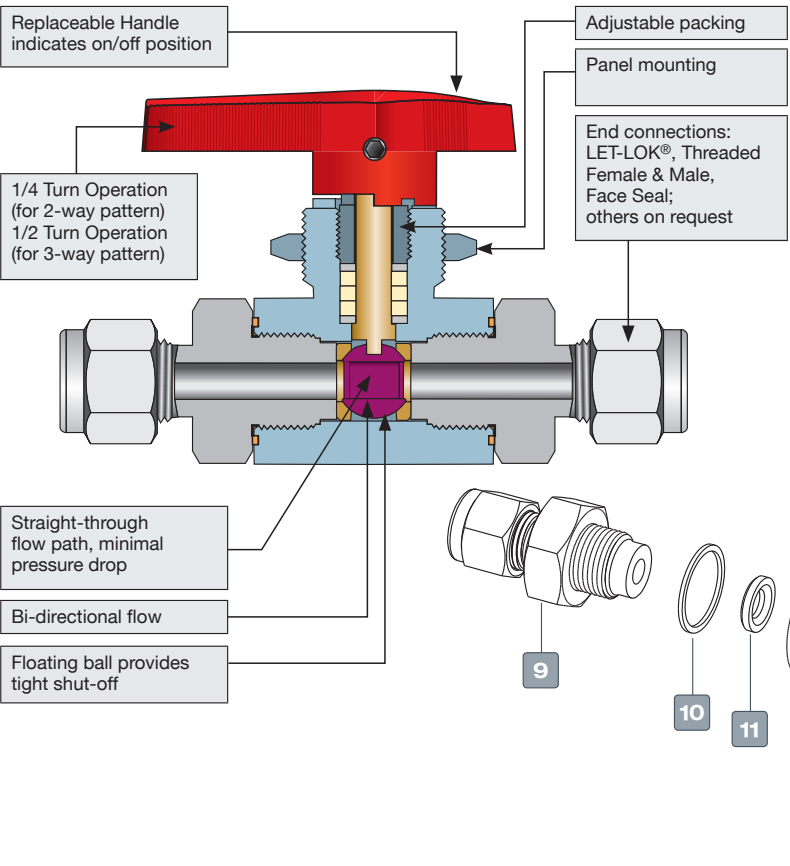
GENERAL

The H-6800 Series is a high-performance instrumentation ball valve for general service and instrumentation panels. The valves offer tight shutoff*, long-life service and low operating torque. The H-6800 Series is rated to max. 6000psig and performs on/off or diverter service.

*3-Way H-6800 is designed for diverting only and not for shutoff service. Inlet is from the bottom only. 3-Way H-6800 is designed to be fully opened to any of the side ports.

MATERIAL OF CONSTRUCTION

No.	Part	Qty	Maximum allowed working pressure	
			Up to 3000 psig	Up to 6000 psig
1	Handle	1	Nylon / Metal / ISLT	Nylon / Metal / ISLT
2	Handle Set Screw	1	St.St.304	St.St.304
3	Packing Bolt	1	St.St.316	St.St.316
4	Packing	3	Virgin PTFE	PTFE / PEEK
5	Gland	2	St.St.304	St.St.304
6	Stem	1	St.St.316	St.St.316
7	Ball	1	St.St.316	St.St.316
8	Panel Nut	1	St.St.303 / Brass	St.St.303
9	End Cap	2	St.St.316 / Brass	St.St.316
10	Body Seal	2	Virgin PTFE	PTFE / PEEK
11	Seat	2	TFM® 1600	PCTFE / PEEK
12	Body	1	St.St. ASTM A351 Gr.CF8M Brass ASTM B-16	St.St. ASTM A-276



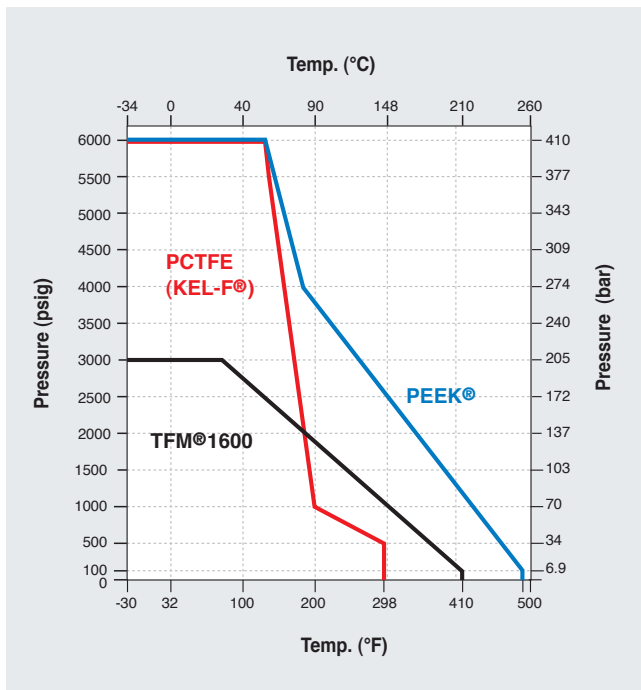
TESTING

The H-6800 design has been tested for Burst and Proof. Standard testing for each H-6800 valve includes testing with nitrogen at 80 & 1000Psig. 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

HAM-LET H-6800 Ball Valve is treated with HAM-LET Passivation Cleaning and Packaging (Procedure 8075). Oxygen Cleaning and Packaging (Procedure 8055) is available as an option. Cleaning and packaging procedures 8075 and 8055 are available for reference on HAM-LET website.

PRESSURE TEMPERATURE RATINGS



SEAT MATERIAL CHARACTERISTICS

TFM1600

Excellent seat material for purity applications. Very low residual material during operation. Lower deformation ratio than PTFE, but higher pressure and temperature ratings than PTFE. Rated up to 410°F (210°C). Chemical resistance equal to PTFE material.

PCTFE (Kel-F®)

Excellent seat material for low temperature applications such as Oxygen and Nitrogen. Suitable for low temperature applications down to -40°C (-40°F).

PEEK (PolyEtherEtherKeton)

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

PACKING ADJUSTMENT

Due to the varied service applications of the valve, packing adjustment may be occasionally necessary. Packing is factory adjusted to 1000 psig service. Initial adjustment is recommended after installation and prior to start-up. Please find more information in the installation instruction chapter. HAM-LET Ball Valves are designed for operation in the fully closed or fully open position.

BODY & SEAT MATERIAL COMBINATIONS

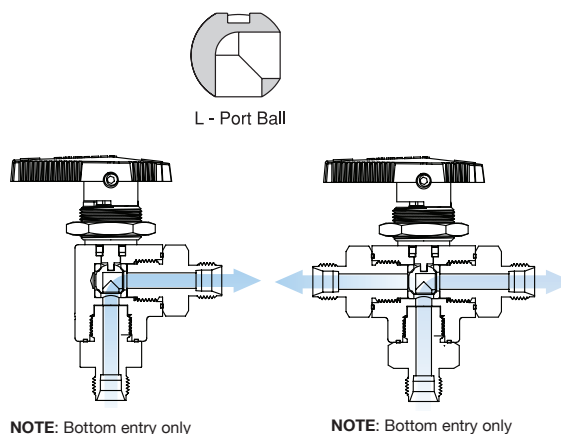
Body Material	MAWP*	MAWT**	Seat Material
St.St. ASTM A351 Gr. CF8M	3000psi (206bar)	410°F (210°C)	TFM1600®
St.St. ASTM A-276	6000psi (410bar)	500°F (260°C)	PEEK
St.St. ASTM A-276	6000psi (410bar)	284°F (140°C)	PCTFE
Brass ASTM B-16	3000psi (206bar)	410°F (210°C)	TFM 1600®

For other body and seat combinations, please contact our customer service.

* Maximum Allowed Working Pressure.

** Maximum Allowed Working Temperature.

ANGLE AND 3-WAY VALVE



MANUAL OPERATION

S - Black Handle*

B - Blue Handle

R - Red Handle

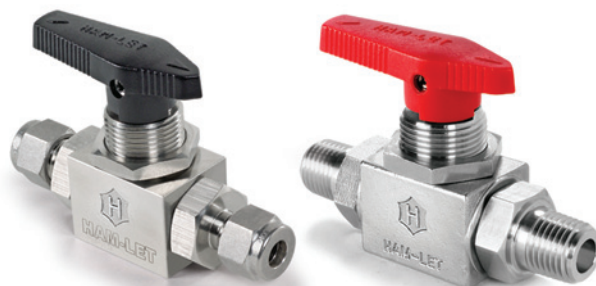
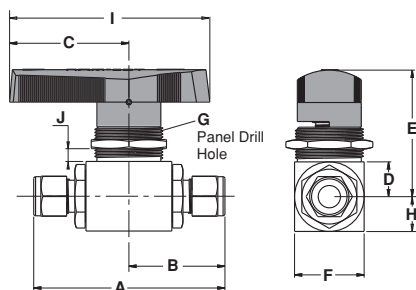
G - Green Handle

Y - Yellow Handle

Metal Handle

*Black Nylon Handle with brass insert is standard.

STRAIGHT PORT VALVE



STRAIGHT PORT, STANDARD CONFIGURATION DIMENSIONS

Size	End Connection		Orifice		Cv	A		B		C		D		E		F		G		H		I*		J**	
	mm	inch	mm	inch		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
1/16"			1.3	0.051	0.1	70.2	2.76	35.1	1.38	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
1/8"			2.4	0.094	0.2	78.6	3.09	39.3	1.55	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
1/4"			4.8	0.189	2.4	83.6	3.29	41.8	1.65	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
3/8"			4.8	0.189	1.5	86.3	3.40	43.15	1.70	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
1/2"			10.3	0.409	12	102.5	4.04	51.25	2.02	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	16.0	0.63	80.0	3.15	6.5	0.255
3/4"			10.3	0.409	6.5	102.5	4.04	51.25	2.02	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	16.0	0.63	80.0	3.15	6.5	0.255
3mm			2.4	0.094	0.2	78.6	3.09	39.3	1.55	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
6mm			4.8	0.189	2.4	83.6	3.29	41.8	1.65	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
8mm			4.8	0.189	1.5	84.8	3.34	42.4	1.67	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
10mm			4.8	0.189	1.5	86.4	3.40	43.2	1.70	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
12mm			10.3	0.409	12	102.5	4.04	51.25	2.02	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	16.0	0.63	80.0	3.15	6.5	0.255
18mm			10.3	0.409	6.5	102.5	4.04	51.25	2.02	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	16.0	0.63	80.0	3.15	6.5	0.255
1/8"			4.8	0.189	1.2	63.6	2.50	31.8	1.25	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
1/4"			4.8	0.189	0.9	64.0	2.52	32.0	1.26	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
3/8"			4.8	0.189	0.6	69.6	2.74	34.8	1.37	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
1/2"			10.3	0.409	6.3	87.4	3.44	43.7	1.72	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	16.0	0.63	80.0	3.15	6.5	0.255
3/4"			10.3	0.409	3.8	91.0	3.58	45.5	1.79	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	16.0	0.63	80.0	3.15	6.5	0.255
1/8"			4.8	0.189	1.2	63.6	2.50	31.8	1.25	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
1/4"			4.8	0.189	0.9	64.0	2.52	32.0	1.26	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
3/8"			4.8	0.189	0.6	69.6	2.74	34.8	1.37	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
1/2"			10.3	0.409	6.3	87.4	3.44	43.7	1.72	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	16.0	0.63	80.0	3.15	6.5	0.255
3/4"			10.3	0.409	3.5	91.0	3.58	45.5	1.79	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	16.0	0.63	80.0	3.15	6.5	0.255
1/8"			4.8	0.189	1.5	67.6	2.66	33.8	1.33	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
1/4"			4.8	0.189	1.2	76.6	3.02	38.3	1.51	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
3/8"			4.8	0.189	0.9	76.6	3.02	38.3	1.51	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
1/2"			10.3	0.409	8.2	92.4	3.64	46.2	1.82	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	16.0	0.63	80.0	3.15	6.5	0.255
3/4"			10.3	0.409	4.5	94.4	3.71	47.2	1.86	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	16.0	0.63	80.0	3.15	6.5	0.255
1/8"			4.8	0.189	1.5	65.4	2.57	32.7	1.29	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
1/4"			4.8	0.189	1.2	76.6	3.02	38.3	1.51	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
3/8"			4.8	0.189	0.9	76.6	3.02	38.3	1.51	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
1/2"			10.3	0.409	8.2	92.4	3.64	46.2	1.82	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	16.0	0.63	80.0	3.15	6.5	0.255
3/4"			10.3	0.409	4.5	94.4	3.71	47.2	1.86	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	16.0	0.63	80.0	3.15	6.5	0.255
1/4"			4.5	0.18	2.4	75.0	2.95	37.5	1.47	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	11.1	0.44	50.0	1.96	6.5	0.255
1/2"			10.3	0.409	12	93.8	3.69	46.9	1.85	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	16.0	0.63	80.0	3.15	6.5	0.255

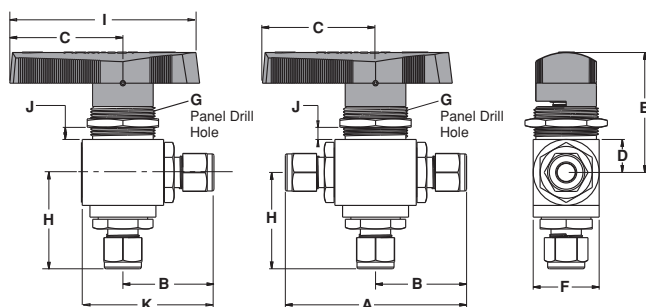
Face to face dimensions for LET-LOK® end connections (dimensions A and B) are finger tight.

* Refers to standard nylon handle.

** Maximum panel thickness.

Dimensions are for reference only, and are subject to change.

ANGLE & 3-PORT VALVE

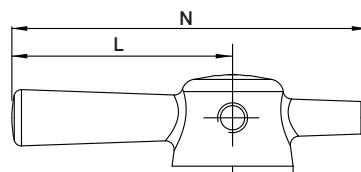


ANGLE & 3-PORT, STANDARD CONFIGURATION DIMENSIONS

Size	End Connection		Orifice		Cv	A		K		B		C		D		E		F		G		H		I*		J**	
	mm	inch	mm	inch		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
1/16"			1.3	0.051	0.08	70.2	2.76	46.2	1.82	35.1	1.38	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	37.9	1.49	50.0	1.96	6.5	0.255
1/8"			2.4	0.094	0.15	78.6	3.09	50.4	1.95	39.3	1.55	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	42.1	1.66	50.0	1.96	6.5	0.255
1/4"			4.8	0.189	0.90	83.6	3.29	52.9	2.08	41.8	1.65	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	44.6	1.76	50.0	1.96	6.5	0.255
3/8"			4.8	0.189	0.60	86.3	3.40	54.25	2.13	43.15	1.70	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	46.0	1.81	50.0	1.96	6.5	0.255
1/2"			10.3	0.40	4.6	102.5	4.04	67.3	2.65	51.25	2.02	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	57.5	2.26	80.0	3.15	6.5	0.255
3/4"			10.3	0.40	3.8	102.5	4.04	67.3	2.65	51.25	2.02	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	57.5	2.26	80.0	3.15	6.5	0.255
3mm			2.4	0.094	0.15	78.6	3.09	52.0	2.05	39.3	1.55	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	42.1	1.66	50.0	1.96	6.5	0.255
6mm			4.8	0.189	0.90	83.6	3.29	52.8	2.08	41.8	1.65	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	44.6	1.76	50.0	1.96	6.5	0.255
8mm			4.8	0.189	0.80	84.8	3.34	53.5	2.1	42.4	1.67	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	45.2	1.78	50.0	1.96	6.5	0.255
10mm			4.8	0.189	0.60	86.4	3.40	54.3	2.14	43.2	1.70	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	46.0	1.81	50.0	1.96	6.5	0.255
12mm			10.3	0.40	4.6	102.5	4.04	67.3	2.65	51.25	2.02	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	57.5	2.11	80.0	3.15	6.5	0.255
18mm			10.3	0.40	2.5	102.5	4.04	67.3	2.65	51.25	2.02	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	57.5	1.19	80.0	3.15	6.5	0.255
1/8"			4.8	0.189	0.3	63.6	2.50	42.9	1.7	32.0	1.26	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	34.6	1.36	50.0	1.96	6.5	0.255
1/4"			4.8	0.189	0.75	64.0	2.52	43.1	1.69	31.8	1.25	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	34.8	1.37	50.0	1.96	6.5	0.255
3/8"			4.8	0.189	0.5	69.6	2.74	45.9	1.8	34.8	1.37	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	37.6	1.48	50.0	1.96	6.5	0.255
1/2"			10.3	0.40	3.5	87.4	3.44	59.7	2.35	43.7	1.72	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	50.0	1.97	80.0	3.15	6.5	0.255
3/4"			10.3	0.40	2.5	91.0	3.58	61.5	2.42	45.5	1.79	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	50.0	1.97	80.0	3.15	6.5	0.255
1/8"			4.8	0.189	0.3	63.6	2.50	42.9	1.7	32.0	1.26	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	34.6	1.36	50.0	1.96	6.5	0.255
1/4"			4.8	0.189	0.75	64.0	2.52	43.1	1.69	31.8	1.25	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	34.8	1.37	50.0	1.96	6.5	0.255
3/8"			4.8	0.189	0.5	69.6	2.74	45.9	1.8	34.8	1.37	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	37.6	1.48	50.0	1.96	6.5	0.255
1/2"			10.3	0.40	3.5	87.4	3.44	59.7	2.35	43.7	1.72	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	50.0	1.97	80.0	3.15	6.5	0.255
3/4"			10.3	0.40	2.5	91.0	3.58	61.5	2.42	45.5	1.79	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	50.0	1.97	80.0	3.15	6.5	0.255
1/8"			4.8	0.189	0.9	67.6	2.66	44.9	1.76	33.8	1.33	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	36.6	1.44	50.0	1.96	6.5	0.255
1/4"			4.8	0.189	0.6	76.6	3.02	49.4	1.94	38.3	1.51	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	41.1	1.62	50.0	1.96	6.5	0.255
3/8"			4.8	0.189	0.35	76.6	3.02	49.4	1.94	38.3	1.51	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	41.1	1.62	50.0	1.96	6.5	0.255
1/2"			10.3	0.40	3.0	92.4	3.64	62.2	2.45	46.2	1.82	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	52.5	2.07	80.0	3.15	6.5	0.255
3/4"			10.3	0.40	2.0	94.4	3.71	63.2	2.49	47.2	1.86	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	53.5	2.1	80.0	3.15	6.5	0.255
1/8"			4.8	0.189	0.9	65.4	2.57	43.8	1.72	32.7	1.29	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	36.6	1.44	50.0	1.96	6.5	0.255
1/4"			4.8	0.189	0.6	76.6	3.02	49.4	1.94	38.3	1.51	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	41.1	1.62	50.0	1.96	6.5	0.255
3/8"			4.8	0.189	0.35	76.6	3.02	49.4	1.94	38.3	1.51	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	41.1	1.62	50.0	1.96	6.5	0.255
1/2"			10.3	0.40	3.0	92.4	3.64	62.2	2.45	46.2	1.82	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	52.5	2.07	80.0	3.15	6.5	0.255
3/4"			10.3	0.40	2.0	94.4	3.71	63.2	2.49	47.2	1.86	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	53.5	2.1	80.0	3.15	6.5	0.255
1/4"			4.5	0.18	0.9	75.0	2.95	48.6	1.91	37.5	1.47	31.0	1.22	11.1	0.44	38.85	1.53	22.2	0.87	19.3	0.76	40.3	1.58	50.0	1.96	6.5	0.255
1/2"			10.3	0.40	4.6	93.8	3.69	62.9	2.47	46.9	1.85	50.0	1.97	16.0	0.63	50.0	1.97	32.0	1.26	20.8	0.82	53.2	2.09	80.0	3.15	6.5	0.255

DIMENSIONS FOR METAL HANDLE

VALVE ENDS	Handle Designator	N	L
Up to 3/8 ends	M	50 MM	31 MM
Up to 3/8 ends	M7	70 MM	45 MM
From 1/2 to 3/4 ends	M	110 MM	80 MM



See Ordering Information



Integral Safety
LockOut-TagOut Device

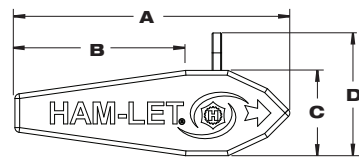
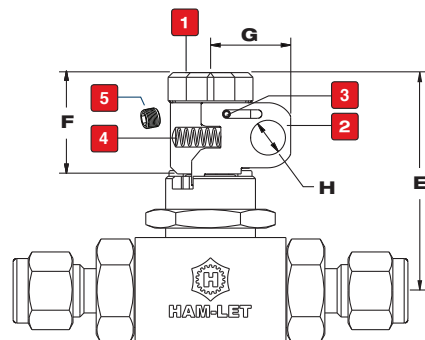
ISLT

GENERAL

The integral locking mechanism enables safe and easy-to-use solutions for valve position locking and tagging. The design prevents undesirable valve position changes, even if no locking equipment is used. Available for 2-way straight and angle pattern in locked-open and locked-closed positions.
For 3-way pattern valves, the ISLT handle allows locking in left and right positions.

ISLT DEVICE CONSTRUCTION

No.	Part	Qty	Material
1	Handle	1	Aluminum anodized
2	Latch	1	St.St.304
3	Pin	1	St.St.304
4	Spring	1	St.St.302
5	Set Screw	1	St.St.304



H-6800 ISLT HANDLE - DIMENSIONS

VALVE SIZE	A		B		C		D		E		F		G		H	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1/16" to 3/8"	2.28	58.0	1.18	30.0	0.71	18.0	1.06	26.0	1.82	46.3	0.85	21.5	0.67	17.0	0.28	7.2
1/2" to 3/4"	4.28	108.7	2.76	70.2	1.1	28.0	1.59	39.0	2.70	68.7	1.3	33.0	0.98	25.0	0.37	9.50

ISLT-Locking Device Al6061 Anodized Handle (St.St. internal components)
For color selection, please see ordering information on page 184.

ISLTS - ISLT Black
ISLTB - ISLT Blue
ISLTR - ISLT Red
ISLTG - ISLT Green
ISLTG - ISLT Green

For ordering handle type or kit use the ordering information.



H-6800 - PNEUMATIC ACTUATED VALVES

FEATURES

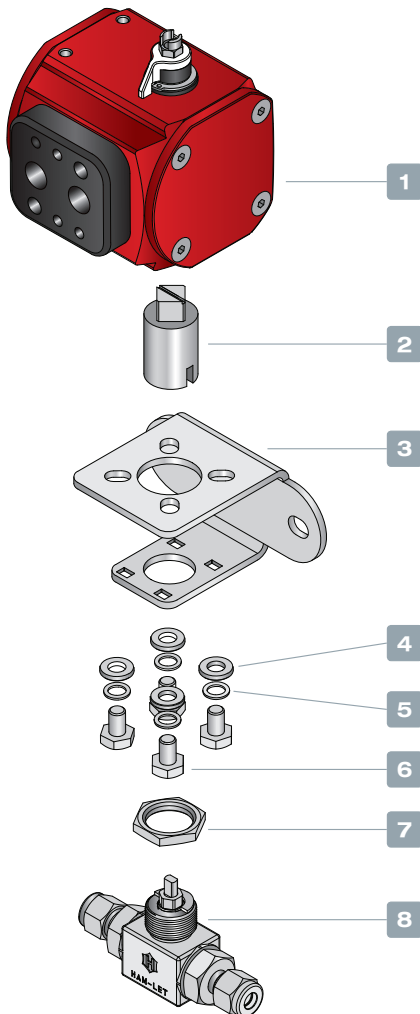
- 90° Actuation for 2-way valves (Straight & Angle)
- 180° Actuation for T-type valves
- Actuators comply with industry standards for interface with ISO 5211, NAMUR and VDI/VDE 3845
- Actuated valves are available factory assembled or separately, actuator and mounting kits
- Limit switches, proximity sensors, position indicators, pilot 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

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
5	Screw	4	St.St.304
6	Panel Nut	1	St.St.316
7	H6800	1	St.St.316 / Brass *

* Body material: St.St. ASTM A-276;
St.St. ASTM A351 Gr. CF8M; Brass ASTM B-16

90° Actuator on 2-way valve



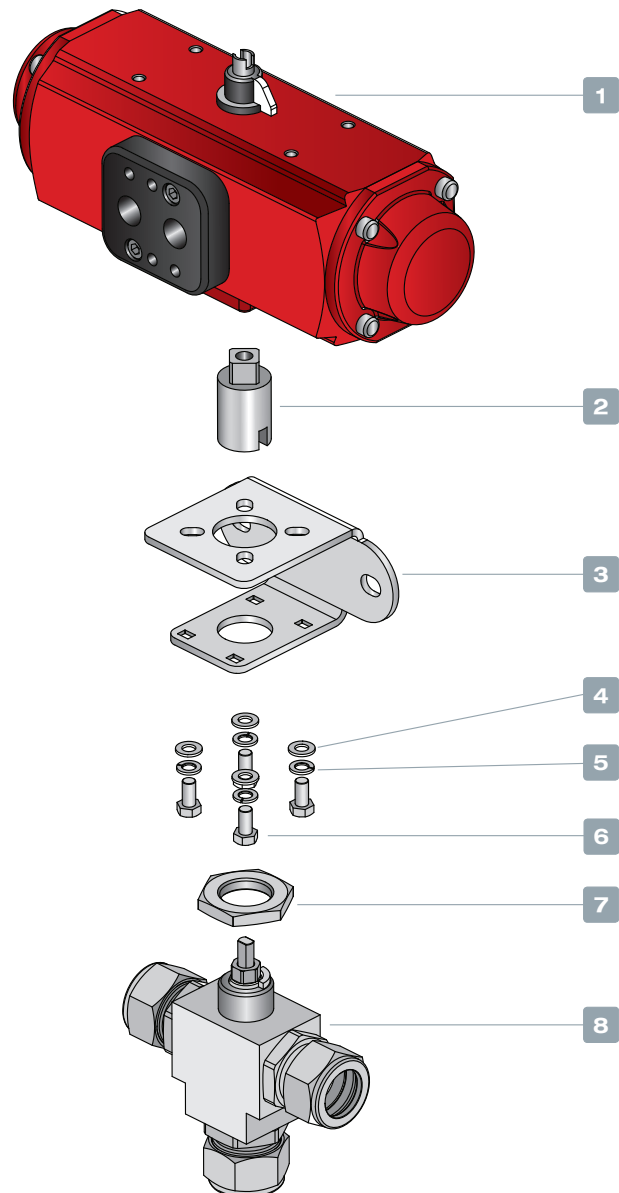
GENERAL

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.

180° Actuator on T-type valve



ACTUATED H-6800 SERIES



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.

To order H-6800 ball valve factory assembled with an actuator, add the actuator designator to the valve part number / description per the below table.

For example:

H-6800-SS-L-1/4-PSS with standard Double Acting Aluminum Actuator

H-6800-SS-L-1/4-PS-A1

To order an actuator and mounting kit for field assembly:

Double acting Actuator ordering number: Z-A1

Corresponding mounting kit: Z-6800-MK-1/4-F03-F04-A1

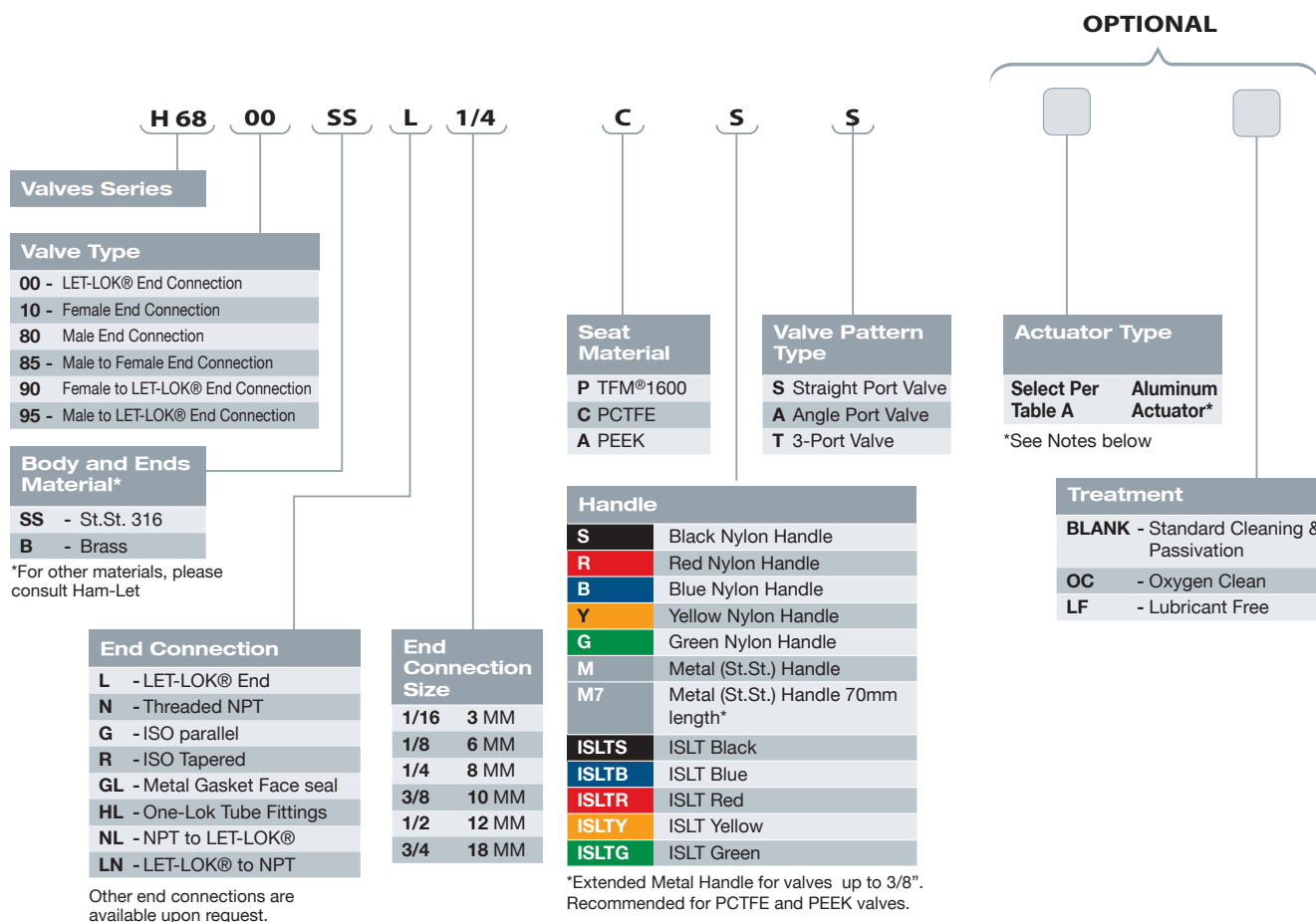
Table A: Ordering information for Actuated Valves

Series	Ends Size	Seats	Minimum Actuator Operating Pressure Bar (Psi)	Actuator Designators (Factory assembled)			Actuator Ordering Code		Mounting Kit Ordering Info
				Spring Return		Double Acting	Spring Return	Double Acting	
				NO	NC				
H-6800	1/16"-3/8" (3mm-10mm)	TFM 1600 PCTFE PEEK	5 (72.5)	A1O	A1C	A1	Z-A1S	Z-A1	Z-6800-MK-1/4"-F03-F04-A1
	1/2"-3/4" (12mm18mm)	TFM 1600	5 (72.5)	A1O	A1C	A1	Z-A1S	Z-A1	Z-6800-MK-1/2"-F03-F04-A1
		PCTFE PEEK	5 (72.5)	A2O	A2C	A2	Z-A2S	Z-A2	Z-6800-MK-1/2"-F03-F04-A2
H-6800 T-type	1/16"-3/8" (3mm-10mm)	TFM 1600 PCTFE PEEK	5 (72.5)	A2TS	A2TS	A2T	Z-A2TS	Z-A2T	Z-6800-MK- 1/4"-F03-F04-A2
	1/2"-3/4" (12mm-18mm)								Z-6800-MK-1/2"-F03-F04-A2

Please contact your local representative for ordering information on Lubricant Free Actuated Valves

Note: For dimensions of Actuators assembled on the H-6800 series please refer to the HPA section

H-6800 SERIES ORDERING INFORMATION



For Actuated Valves

- If special cleaning is required, LF / OC will be added in the end and be applicable for the Valve only.
For example: **H - 6800- SS - L - 1/4 - PS - A1 - OC**
- For ordering information of actuators for high temperature please refer to Ham-Let Pneumatic Actuator Catalog.
- For double mounting actuators, please contact your local representative.
- Actuators Accessories (Limit Switch, Solenoid Valve please refer to Ham-Let Pneumatic Actuator Catalog.
- For Stainless Steel Actuator or Electric Actuator please contact your local representative.

ORDERING INFORMATION FOR SPARE KITS

SEAL KIT

Seal Kit includes seats, stem packings, body seals and lable.

Z - **6800** - **SK** - **1/4** - **A** - **2 WAY**

Kit Type	Body Designator per End Connection	Seat Material	Valve Pattern
SK Seal Kit	1/4 1/16 to 3/8 3MM to 10MM	P TFM®1600	2 Way For straight and angle Valves
	1/2 1/2 to 3/4 12MM to18MM	C PCTFE	3 Way For T Port Valves
		A PEEK	

NOTE:

For Seal kits for "Old Design" valves, please contact a HAM-LET representative.

HANDLE KIT

Handle kit includes handle and set screw. To order a spare-parts kit, use the following format:

Z - **6800** - **HK** - **1/4** - **S**

Kit Type	Body Designator per End Connection	Handle Type
HK Handle Kit	1/4 1/16 to 3/8 3MM to 10MM	S Black Nylon Handle
	1/2 1/2 to 3/4 12MM to18MM	R Red Nylon Handle
		B Blue Nylon Handle
		Y Yellow Nylon Handle
		G Green Nylon Handle
		M Metal (St.St.) Handle
		M7 Metal St.St Handle 70 mm
		ISLTS ISLT Black
		ISLTB ISLT Blue
		ISLTR ISLT Red
		ISLTY ISLT Yellow
		ISLTG ISLT Green

Warning! For your safety

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.

TFM® - TM DuPont
H-6800, Rev.09, July 2011