

Pneumatic Rack and Pinion Actuators

HAM-LET PNEUMATIC ACTUATORS



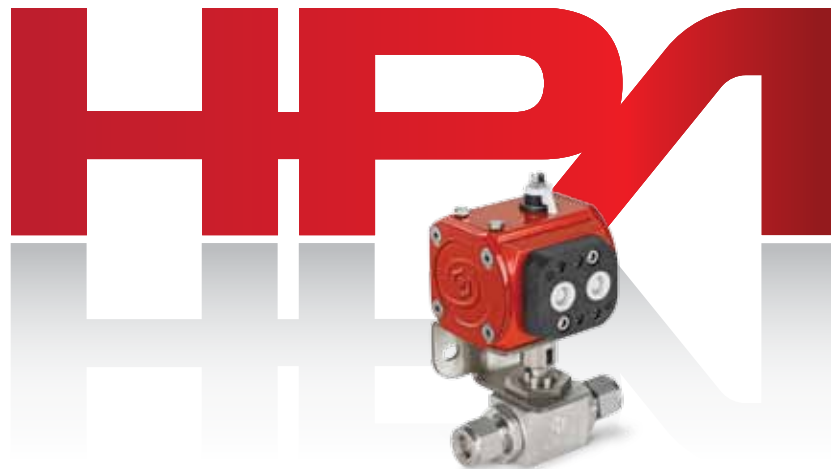
Advanced torque to size ratio



HAM-LET 90° PNEUMATIC ACTUATORS RANGE

- The most compact actuator for ball valves up to ½" body size
- Superior torque-to-size ratio for instrumentation applications
- A unique internal and external double coating improves corrosion resistance and ensures smooth operation
- A simple interface plate accommodates all air connection types
- Four actuator types to best fit the entire Ham-Let ball valves range

HAM-LET PNEUMATIC ACTUATORS



Features:

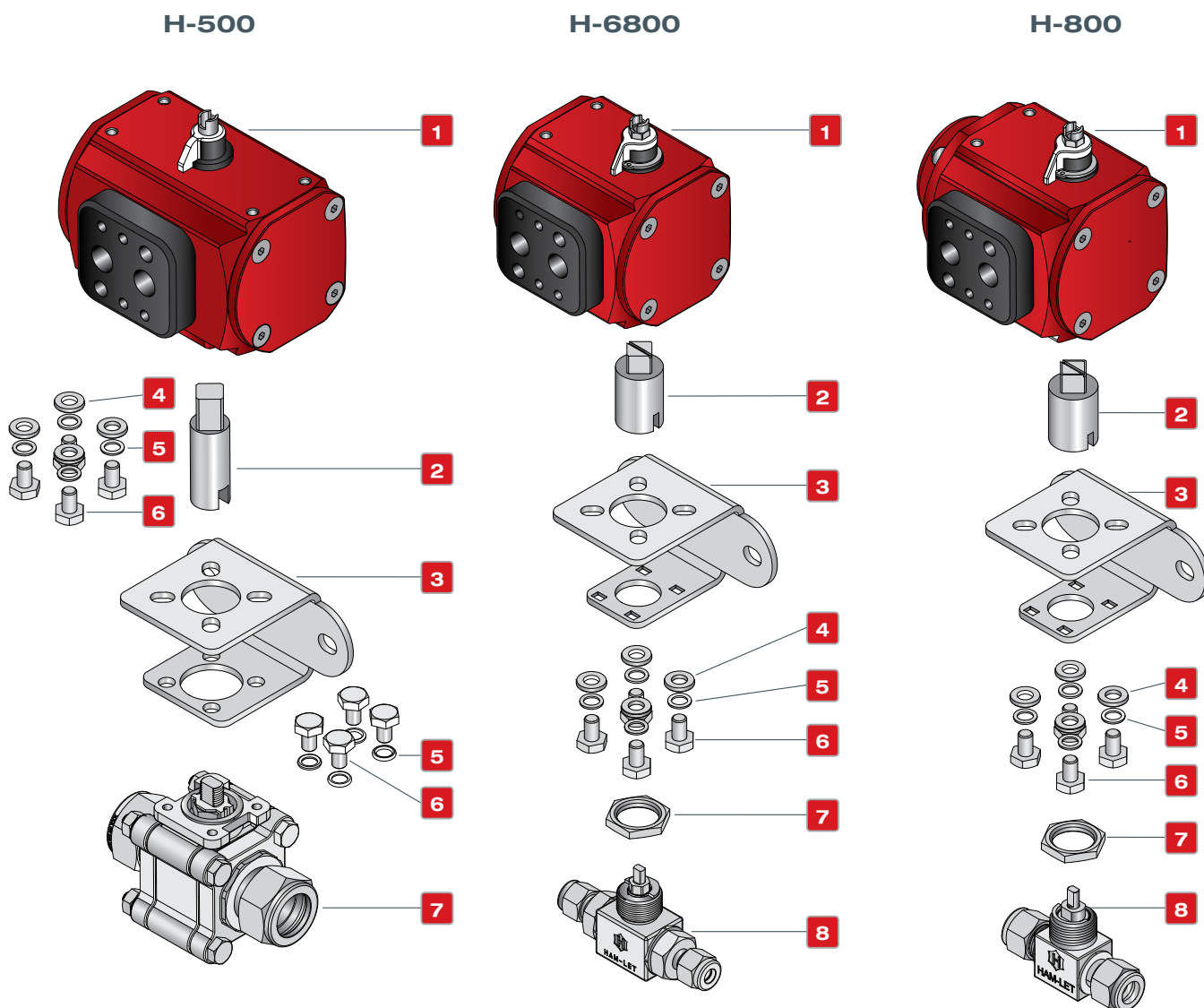
- Pneumatic Rack and Pinion Actuators
- 90° Actuation for 2-way valves (Straight & Angle)
- Actuators comply with industry standards for interface with ISO 5211, NAMUR and VDI/VDE 3845
- Actuated valves are available factory assembled or separately, actuator and mounting kits
- Aluminum actuators are available as standard, Stainless Steel and Electric actuators are available upon request
- 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: -30°C to 120°C (-22°F to 248°F)
Low Temperature: -50°C to 80°C (-58°F to 176°F)

General

- Four standard actuator sizes are available upon request: Mini (designator "A1"), Small (designator "A2"), Medium (designator "A3"), and Large (designator "A4").
- 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.	H-500 SERIES			H-6800 SERIES			H-800 SERIES		
	Part	Qty.	Material	Part	Qty.	Material	Part	Qty.	Material
1	Actuator	1	Al 356-T5	Actuator	1	Al 356-T5	Actuator	1	Al 356-T5
2	Coupling	1	St.St.316	Coupling	1	St.St.316	Coupling	1	St.St.316
3	Bracket	1	St.St.304	Bracket	1	St.St.304	Bracket	1	St.St.304
4	Washer flat	4	St.St.304	Washer flat	4	St.St.304	Washer flat	4	St.St.304
5	Washer spring	8	St.St.304	Washer spring	4	St.St.304	Washer spring	4	St.St.304
6	Screw	8	St.St.304	Screw	4	St.St.304	Screw	4	St.St.304
7	H-500	1	St.St.316	Panel nut	1	St.St.316	Panel nut	1	St.St.316
8	-	-	-	H-6800	1	St.St.316	H-800	1	St.St.316

H-6800 SERIES

H-6800 High Performance Ball Valves features, materials of construction, and technical data are available in Ham-Let valves catalog.

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



Tabel 1

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	5 (72.5)	A1O	A1C	A1	Z-A1S	Z-A1	Z-6800-MK-1/4"-F03-F04-A1
		PCTFE	5 (72.5)	A1O	A1C	A1	Z-A1S	Z-A1	Z-6800-MK-1/4"-F03-F04-A1
		PEEK	5 (72.5)	A1O	A1C	A1	Z-A1S	Z-A1	Z-6800-MK- 1/4"-F03-F04-A1
	1/2"-3/4" (12mm-18mm)	TFM 1600	5 (72.5)	A1O	A1C	A1	Z-A1S	Z-A1	Z-6800-MK-1/2"-F03-F04-A1
		PCTFE	5 (72.5)	A2O	A2C	A2	Z-A2S	Z-A2	Z-6800-MK-1/2"-F03-F04-A2
		PEEK	5 (72.5)	A2O	A2C	A2	Z-A2S	Z-A2	Z-6800-MK-1/2"-F03-F04-A2

Ham-Let ISO 5211 mounting kits for H-6800 Series contain:

<p>Mounting Kit ordering Information describes interface per ISO 5211. for example: Z-6800-MK-1/2-F03-F04 complies with: ISO 5211 flange types F03-F04</p>	Part	Qty	Material
	Coupling	1	St.St 316
	Bracket	1	St.St 304
	Screw	4	St.St 304
	Washer spring	4	St.St 304
	Washer flat	4	St.St 304
	Panel nut	1	St.St 316
	Mounting instructions	-	-

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

H-800 SERIES

H-800 One Piece Ball Valves features, materials of construction, and technical data, are available in Ham-Let valves catalog.

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



Tabel 2

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-800	S	PFA	5 (72.5)	A1O	A1C	A1	Z-A1S	Z-A1	Z-800S-MK-F03-F04-A1
	M		5 (72.5)	A1O	A1C	A1	Z-A1S	Z-A1	Z-800M-MK-F03-F04-A1
	L		5 (72.5)	A2O	A2C	A1	Z-A2S	Z-A1	SR: Z-800L-MK-F03-F04-A2 DA: Z-800L-MK-F03-F04-A1

Ham-Let ISO 5211 mounting kits for H-800 Series contain:

<p>Note: Mounting Kit ordering Information describes interface per ISO 5211. for example: Z-800S-MK-F03-F04 complies with: ISO 5211 flange types F03-F04</p>	Part	Qty	Material
	Coupling	1	St.St 316
	Bracket	1	St.St 304
	Screw	4	St.St 304
	Washer spring	4	St.St 304
	Washer flat	4	St.St 304
	Panel nut	1	St.St 316
	Mounting instructions	-	-

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

H-500 SERIES

H-500 Three Piece Ball Valves features, materials of construction, and technical data, are available in Ham-Let valves catalog.

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-500 ball valve factory assembled with an actuator, the actuator designator shall be added to the valve part number/description per the below table. For example:

H-500-SS-L-3/4-T with standard Double Acting Aluminum Actuator

H-500-SS-L-3/4-T-A2

To order an actuator and mounting kit for field assembly:

Spring Return Actuator ordering number: **Z-A2**

Corresponding mounting kit: **Z-500-MK-3/4 -F03-F04**

Please contact your local representative for the following:

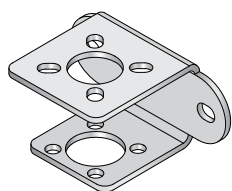
- For ordering information on Lubricant Free Actuated Valves
- For technical data for valves with a large actuator (designator "A4")



Tabel 3

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-500	1/4"-1/2" (6 mm-12 mm)	PTFE	5 (72.5)	A2O	A2C	A1	Z-A2S	Z-A1	SR: Z-500-MK-1/2"-F03-F04-A2 DA: Z-500-MK-1/2"-F03-F04-A1
		TFM 1600	5 (72.5)	A2O	A2C	A1	Z-A2S	Z-A1	SR: Z-500-MK-1/2"-F03-F04-A2 DA: Z-500-MK-1/2"-F03-F04-A1
		St.St. PTFE	5 (72.5)	A2O	A2C	A2	Z-A2S	Z-A2	Z-500-MK-1/2"-F03-F04-A2
		PEEK	5 (72.5)	A4O	A4C	A3	Z-A4S	Z-A3	SR: Z-500-MK-1/2"-F05-F07-A4 DA: Z-500-MK-1/2"-F04-F05-A3
	3/4" (20 mm)	PTFE	5 (72.5)	A2O	A2C	A2	Z-A2S	Z-A2	Z-500-MK-3/4"-F03-F04-A2
		TFM 1600	5 (72.5)	A2O	A2C	A2	Z-A2S	Z-A2	Z-500-MK-3/4"-F03-F04-A2
		St.St. PTFE	5 (72.5)	A3O	A3C	A2	Z-A3S	Z-A2	SR: Z-500-MK-3/4"-F04-F05-A3 DA: Z-500-MK-3/4"-F03-F04-A2
		PEEK	5 (72.5)	A4O	A4C	A4	Z-A4S	Z-A4	Z-500-MK-3/4"-F05-F07-A4
	1" (25 mm)	PTFE	5 (72.5)	A3O	A3C	A3	Z-A3S	Z-A3	Z-500-MK-1"-F04-F05-A3
		TFM 1600	5 (72.5)	A3O	A3C	A3	Z-A3S	Z-A3	Z-500-MK-1"-F04-F05-A3
		St.St. PTFE	5 (72.5)	A4O	A4C	A3	Z-A4S	Z-A3	SR: Z-500-MK-1"-F05-F07-A4 DA: Z-500-MK-1"-F04-F05-A3
		PEEK	5 (72.5)	A4O	A4C	A4	Z-A4S	Z-A4	Z-500-MK-1"-F05-F07-A4

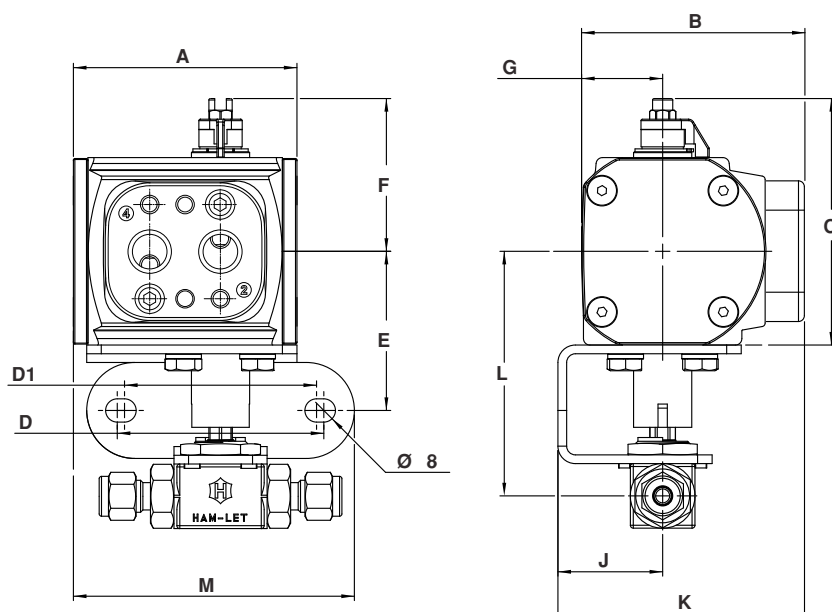
Ham-Let ISO 5211 mounting kits for H-500 Series contain:



Note: Mounting Kit ordering Information describes interface per ISO 5211.
for example: Z-500-MK-3/4-F03-F04 complies with : ISO 5211 flange types F03-F04

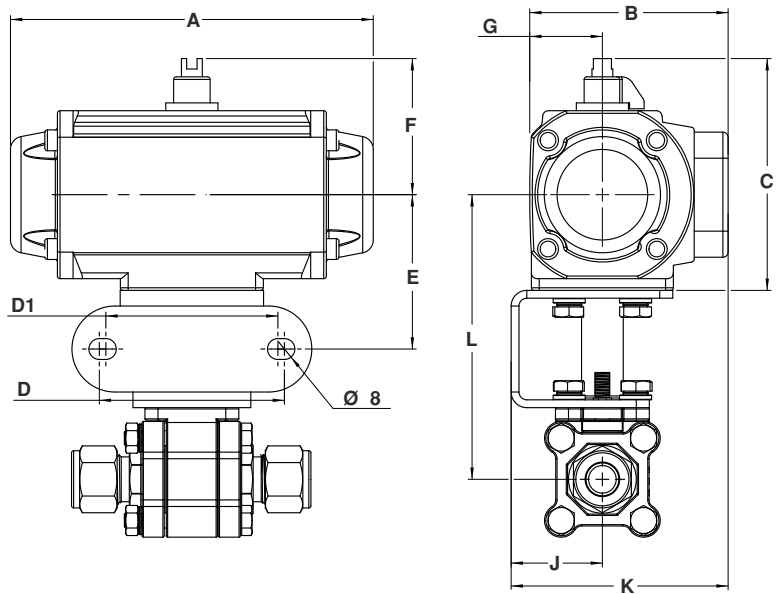
Part	Qty	Material
Coupling	1	St.St 316
Bracket	1	St.St 304
Screw	8	St.St 304
Washer spring	8	St.St 304
Washer flat	4	St.St 304
Panel nut	1	St.St 316
Mounting instructions	-	-

Dimensions for Assembled Actuators - H-800 & H-6800 SERIES



Series	Body Designator	Ends Size	Seats Material	Actuator Model		Units	A	B	C	D	D1	E	F	G	J	K	L	M
H-6800	1/4"	1/16"-3/ 8" (3mm-10mm)	TFM 1600 PCTFE PEEK	SR	A1S	mm	96.5	76.1	84.1	71	66	54.7	51.8	27.9	35	83.2	88.5	116.2
						inch	3.8	3.0	3.31	2.8	2.6	2.15	2.04	1.1	1.38	3.27	3.48	4.57
				DA	A1	mm	76.8	76.1	84.1	71	66	54.7	51.8	27.9	35	83.2	88.5	96.6
						inch	3.02	3.0	3.31	2.8	2.6	2.15	2.04	1.1	1.38	3.27	3.48	3.8
	1/2"	1/2"-3/4" (12mm-18mm)	TFM 1600	SR	A1S	mm	96.5	76.1	84.1	71	66	54.7	51.8	27.9	35	83.2	93.2	116.2
						inch	3.8	3.0	3.31	2.8	2.6	2.15	2.04	1.1	1.38	3.27	3.67	4.57
				DA	A1	mm	76.8	76.1	84.1	71	66	54.7	51.8	27.9	35	83.2	93.2	96.6
						inch	3.02	3.0	3.31	2.8	2.6	2.15	2.04	1.1	1.38	3.27	3.67	3.8
			PCTFE PEEK	SR	A2S	mm	140.2	76.1	88.6	71	66	59.7	51.8	27.9	35	83.2	97.7	x
						inch	5.52	3.0	3.49	2.8	2.6	2.35	2.04	1.1	1.38	3.27	3.85	x
				DA	A2	mm	101	76.1	88.6	71	66	59.7	51.8	27.9	35	83.2	97.7	x
						inch	3.97	3.0	3.49	2.8	2.6	2.35	2.04	1.1	1.38	3.27	3.85	x
H-800	S	1/16"-1/4" (3mm-6mm)	PFA	SR	A1S	mm	96.5	76.1	84.1	71	66	54.7	51.8	27.9	35	83.2	85.8	116.2
						inch	3.8	3.0	3.31	2.8	2.6	2.15	2.04	1.1	1.38	3.27	3.48	4.57
				DA	A1	mm	76.8	76.1	84.1	71	66	54.7	51.8	27.9	35	83.2	85.8	96.6
						inch	3.02	3.0	3.31	2.8	2.6	2.15	2.04	1.1	1.38	3.27	3.48	3.8
	M	1/4"-3/8" (6mm-8mm)		SR	A1S	mm	96.5	76.1	84.1	71	66	54.7	51.8	27.9	35	83.2	88.4	116.2
						inch	3.8	3.0	3.31	2.8	2.6	2.15	2.04	1.1	1.38	3.27	3.48	4.57
				DA	A1	mm	76.8	76.1	84.1	71	66	54.7	51.8	27.9	35	83.2	88.4	96.6
						inch	3.02	3.0	3.31	2.8	2.6	2.15	2.04	1.1	1.38	3.27	3.48	3.8
	L	3/8"-1/2" (10mm-12mm)		SR	A2S	mm	140.2	76.1	88.6	71	66	59.7	51.8	27.9	35	83.2	95.9	x
						inch	5.52	3.0	3.49	2.8	2.6	2.35	2.04	1.1	1.38	3.27	3.77	x
				DA	A1	mm	76.8	76.1	84.1	71	66	54.7	51.8	27.9	35	83.2	91.4	96.6
						inch	3.02	3.0	3.31	2.8	2.6	2.15	2.04	1.1	1.38	3.27	3.6	3.8

Dimensions for Assembled Actuators- H-500 SERIES



Series	Body Designator	Ends Size	Seats Material	Actuator Model		Units	A	B	C	D	D1	E	F	G	J	K	L		
H-500	1/2"	1/4"-1/2" (6mm-12mm)	PTFE TFM 1600	SR	A2S	mm	140.2	76.1	88.6	71	66	59.7	51.8	27.9	35	83.2	109.2		
						inch	5.52	3.0	3.49	2.8	2.6	2.35	2.04	1.1	1.38	3.27	4.3		
				DA	A1	mm	76.8	76.1	84.1	71	66	54.7	51.8	27.9	35	83.2	104.7		
						inch	3.02	3.0	3.31	2.8	2.6	2.15	2.04	1.1	1.38	3.27	4.12		
			St.St. PTFE	SR	A2S	mm	140.2	76.1	88.6	71	66	59.7	51.8	27.9	35	83.2	109.2		
						inch	5.52	3.0	3.49	2.8	2.6	2.35	2.04	1.1	1.38	3.27	4.3		
				DA	A2	mm	101	76.1	88.6	71	66	59.7	51.8	27.9	35	83.2	109.2		
						inch	3.97	3.0	3.49	2.8	2.6	2.35	2.04	1.1	1.38	3.27	4.3		
			PEEK	SR	A4S*		-	-	-	-	-	-	-	-	-	-	-	-	-
				DA	A3	mm	152.3	84.1	111.3	71	66	65.7	68.1	31.9	44	96.2	115.7		
			3/4"	3/4" (18mm)	PTFE	SR	A2S	mm	140.2	76.1	88.6	71	66	59.7	51.8	27.9	35	83.2	112.5
								inch	5.52	3.0	3.49	2.8	2.6	2.35	2.04	1.1	1.38	3.27	4.43
	DA	A2				mm	101	76.1	88.6	71	66	59.7	51.8	27.9	35	83.2	112.5		
						inch	3.97	3.0	3.49	2.8	2.6	2.35	2.04	1.1	1.38	3.27	4.43		
	TFM 1600	SR			A2S	mm	140.2	76.1	88.6	71	66	59.7	51.8	27.9	35	83.2	112.5		
						inch	5.52	3.0	3.49	2.8	2.6	2.35	2.04	1.1	1.38	3.27	4.43		
		DA			A1	mm	76.8	76.1	84.1	71	66	54.7	51.8	27.9	35	83.2	108		
						inch	3.02	3.0	3.31	2.8	2.6	2.15	2.04	1.1	1.38	3.27	4.25		
	St.St. PTFE	SR			A3S	mm	152.3	84.1	111.3	71	66	65.7	68.1	31.9	44	96.2	119		
						inch	6.0	3.31	4.38	2.8	2.6	2.58	2.68	1.25	1.73	3.79	4.68		
		DA			A2	mm	101	76.1	88.6	71	66	59.7	51.8	27.9	35	83.2	112.5		
						inch	3.97	3.0	3.49	2.8	2.6	2.35	2.04	1.1	1.38	3.27	4.43		
	PEEK	SR	A4S*		-	-	-	-	-	-	-	-	-	-	-	-	-		
		DA	A4*		-	-	-	-	-	-	-	-	-	-	-	-	-		
	1"	1" (25mm)	PTFE	SR	A3S	mm	152.3	84.1	111.3	71	66	65.7	68.1	31.9	44	96.2	125.7		
						inch	6.0	3.31	4.38	2.8	2.6	2.58	2.68	1.25	1.73	3.79	4.95		
				DA	A3	mm	152.3	84.1	111.3	71	66	65.7	68.1	31.9	44	96.2	125.7		
						inch	6.0	3.31	4.38	2.8	2.6	2.58	2.68	1.25	1.73	3.79	4.95		
			TFM 1600	SR	A2S	mm	140.2	76.1	88.6	71	66	59.7	51.8	27.9	35	83.2	119.2		
						inch	5.52	3.0	3.49	2.8	2.6	2.35	2.04	1.1	1.38	3.27	4.7		
				DA	A1	mm	76.8	76.1	84.1	71	66	54.7	51.8	27.9	35	83.2	114.7		
						inch	3.02	3.0	3.31	2.8	2.6	2.15	2.04	1.1	1.38	3.27	4.51		
			St.St. PTFE	SR	A4S*		-	-	-	-	-	-	-	-	-	-	-	-	-
						mm	152.3	84.1	111.3	71	66	65.7	68.1	31.9	44	96.2	125.7		
				DA	A3	mm	152.3	84.1	4.38	2.8	2.6	2.58	2.68	1.25	1.73	3.79	4.95		
						inch	6.0	3.31											
PEEK	SR	A4S*		-	-	-	-	-	-	-	-	-	-	-	-	-			
	DA	A4*		-	-	-	-	-	-	-	-	-	-	-	-	-			

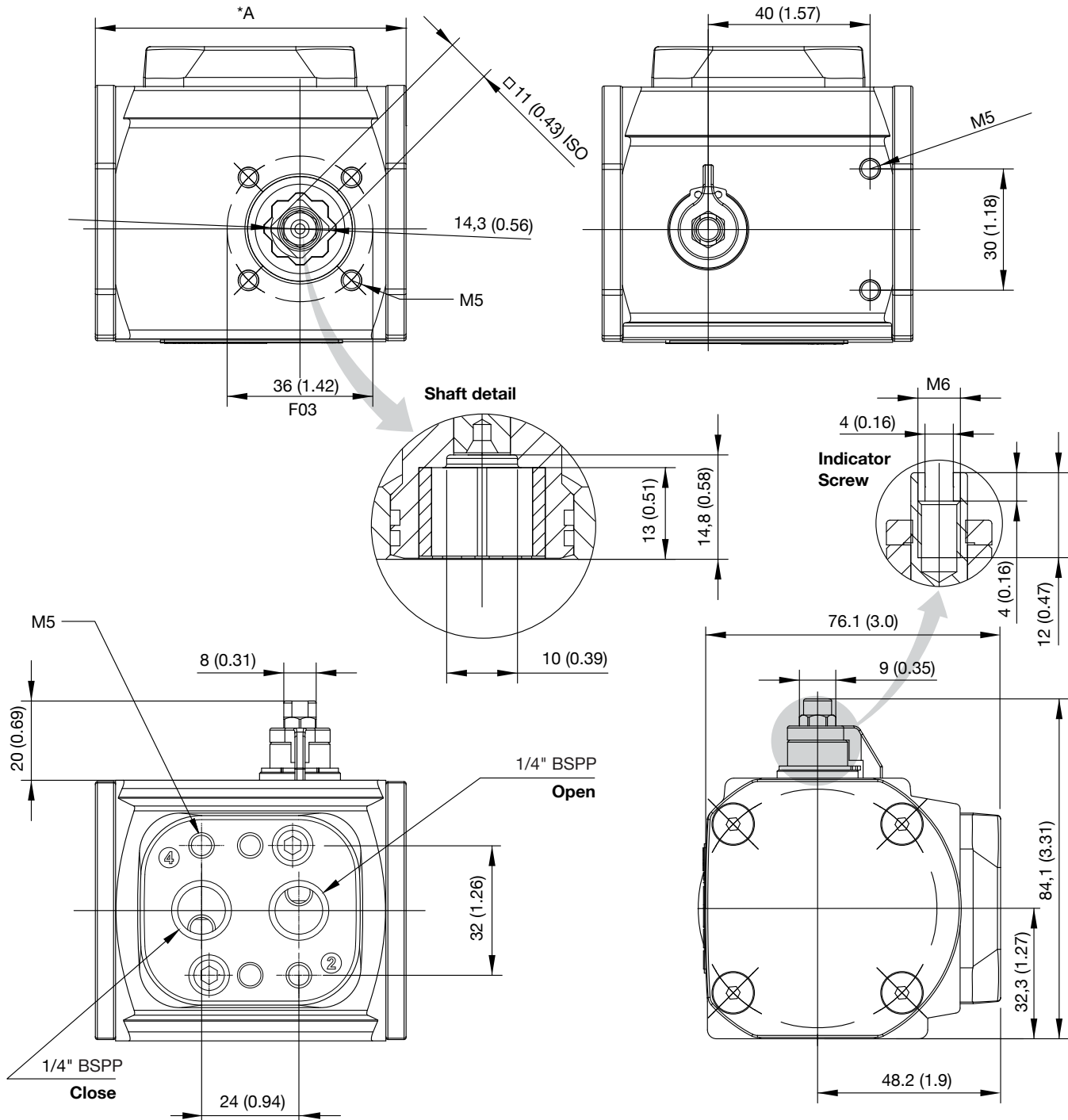
*For A4 Actuator technical data, please contact your local representative.

A1 DIMENSIONS

MODELS	CYCLE TIME IN SECS.		WEIGHT		CAPACITY IN LITERS	
	TO OPEN	TO CLOSE	Kg	Lb	TO OPEN	TO CLOSE
A1	0.1	0.1	0.6	1.32	0.07	0.03
A1S	0.15	0.15	0.7	1.54	0.07	

Cycle time w/o resistant torque at 6 bar (87 psi)

Dimensions in mm (inch)



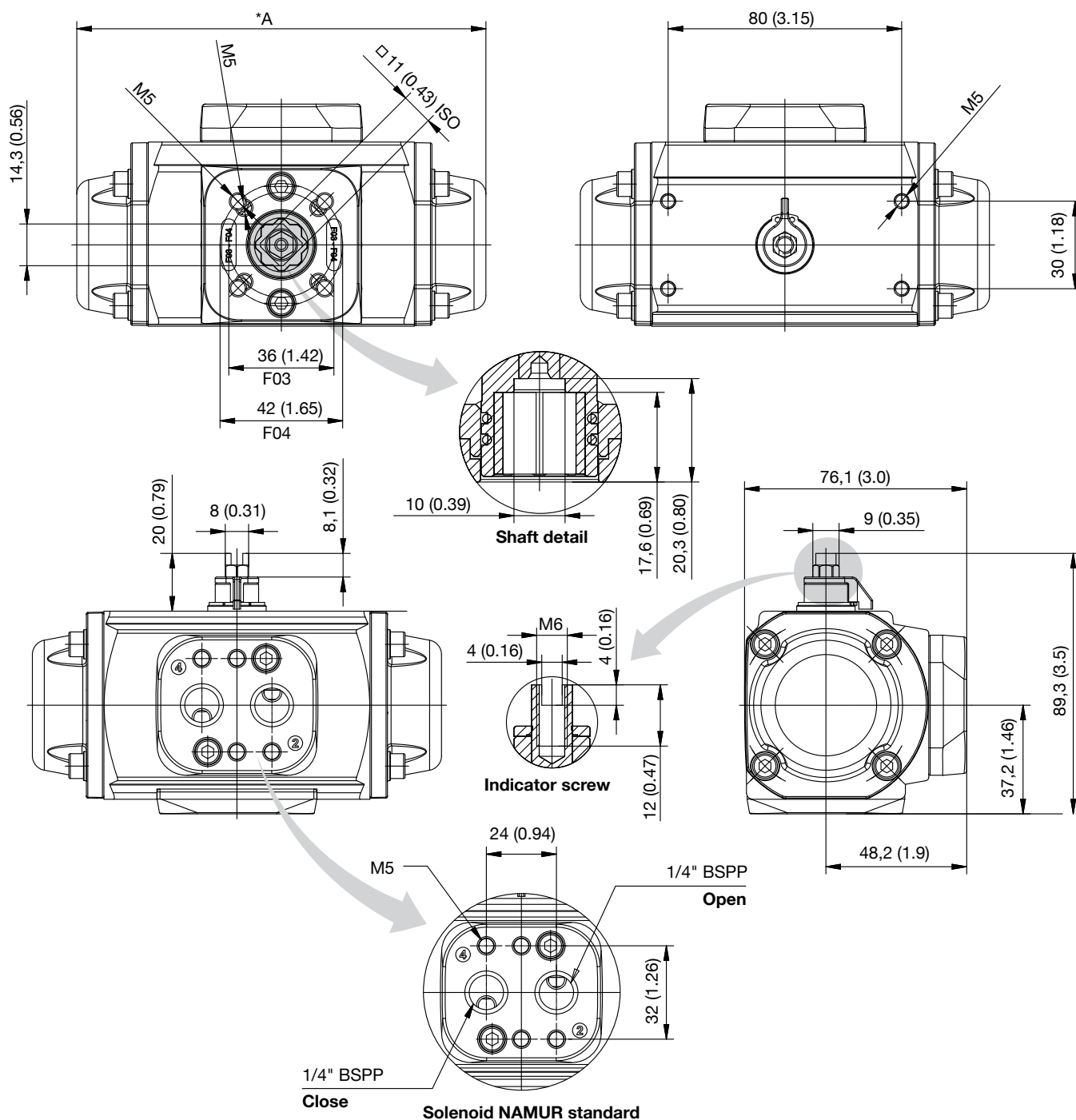
*For Spring Return Actuator: A = 96.5mm (3.8 inch)
For Double Acting Actuator: A = 76.8mm (3.02 inch)

A2 DIMENSIONS

MODELS	CYCLE TIME IN SECS		WEIGHT		CAPACITY IN LITERS	
	TO OPEN	TO CLOSE	Kg	Lb	TO OPEN	TO CLOSE
A2	0.1	0.1	0.92	2.02	0.075	0.11
A2S	0.15	0.15	1	2.2	0.075	

Cycle time w/o resistant torque at 6 bar (87 psi)

Dimensions in mm (inch)



*For Spring Return Actuator: A = 140.2mm (5.5 inch)

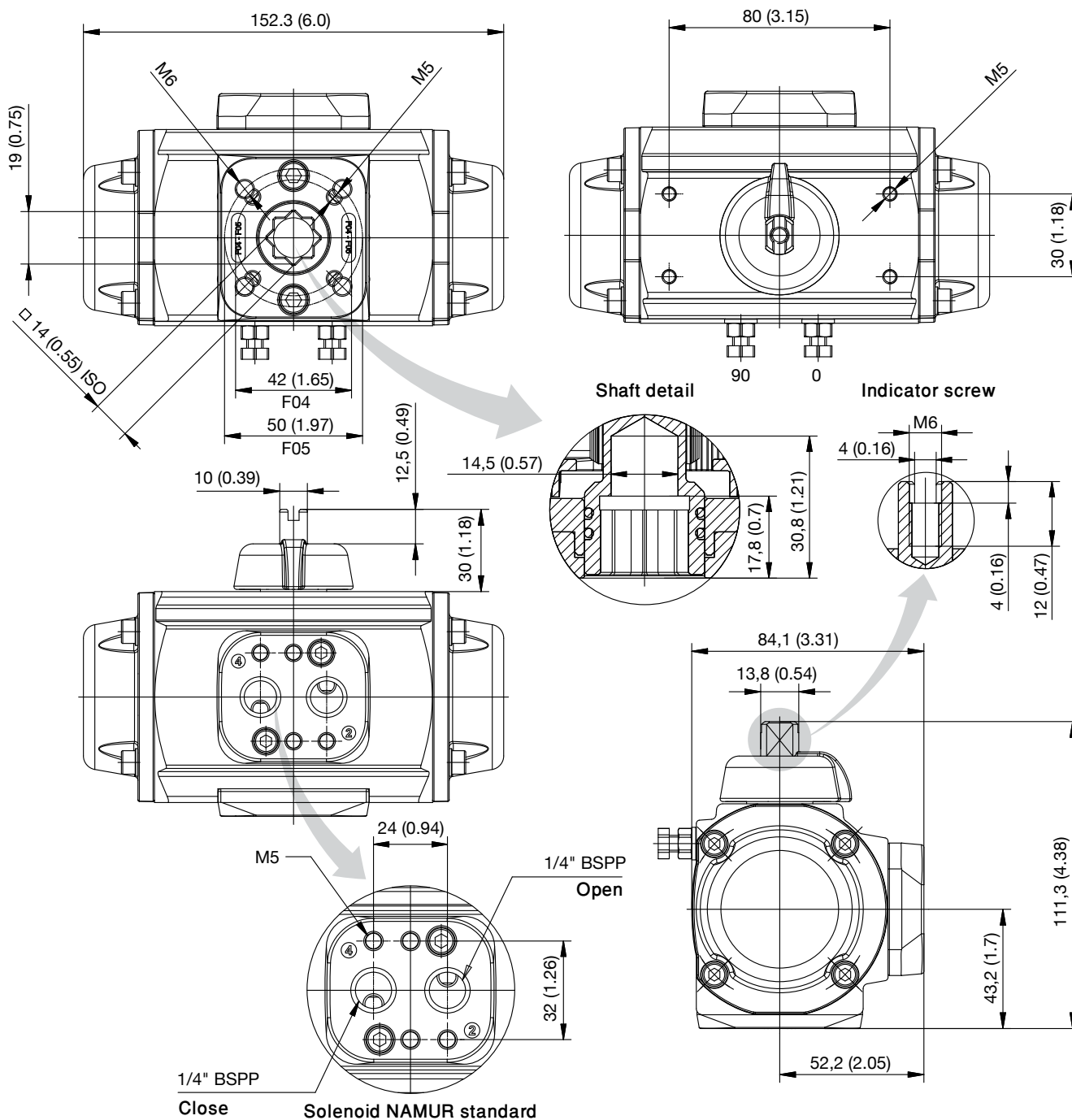
For Double Acting Actuator: A = 101mm (3.97 inch)

A3 DIMENSIONS

MODELS	CYCLE TIME IN SECS.		WEIGHT		CAPACITY IN LITERS	
	TO OPEN	TO CLOSE	Kg	Lb	TO OPEN	TO CLOSE
A3	0.15	0.15	1.4	3.09	0.15	0.18
A3S	0.2	0.2	1.625	3.58	0.15	

Cycle time w/o resistant torque at 6 bar (87 psi)

Dimensions in mm (inch)



Accessories Kits

13

Ham-Let Pneumatic Actuators



Standard 90 degrees. Aluminum pneumatic actuator, Operating Pressure: max. 8 bar (116 PSI). Standard working temperature -32°C to 90°C (-25.6°F to 194°F)



Solenoid valve, attached to the actuator to create an electro pneumatically actuated ball valve. DC 24V, 2.5W 5/2 way for double acting, 4/2 for spring return. Enclosure IP65.



Inductive limit switch for visual and electric indication of actuator position voltage: 8V DC, Enclosure IP67



Electric actuator has been designed to control valve with 90 deg rotation. 100-240V, 40/60 HZ, ISW, IP65



ATEX mechanical limit switch for use in hazardous locations zone 2, temp range (-20°C to 60°C) (-4°F to 140°F)



Electro Mechanical limit switch for visual and electric indication of actuator position. Enclosure IP67, voltage: AC: 250V 16A, 125V 16A
DC: 250V 0.3A, 125V 0.6A, 30V 10V



90 degree Stainless Steel pneumatic actuator, operating pressure max. 8 bar (116 PSI). Standard working temperature -32°C to 90°C (-25.6°F to 194°F)

Ordering information for Factory Assembled Accessories

Valve Type		A1		HT		LS		SV	
Actuator Type		Temp Range °C (°F)		Limit Switch Type		Solenoid Valve			
Per Tables (1,2,3)	Aluminum Actuator	Blank	Standard Actuator	Blank	No Limit Switch	Blank	No Solenoid Valve		
6S1	St.St. Actuator*	HT	High Temperature Actuator	LSM	Electromechanical Limit Switch	SV	Solenoid Valve		
E1	Electric Actuator*	LT	Low Temperature Actuator	LSI	Inductive Limit Switch				
				LSAX	Electromechanical Limit Switch ATEX				

* Please contact your Local Representative to fit Actuator to Valve

- If special cleaning is required, LF / OC will be added in the end, and will refer to the Valve Only.
For example: **H - 800S-SS - L- 1/4 - A1LSM - OC**
- In case of request for Actuated valve with LS and Solenoid Valve, The order is as follows: Valve, Actuator, LS, Solenoid
For example: **H - 800S-SS - L- 1/4 - A1LSMSV**
- For double mounting actuators, please contact your local representative.

Ordering Information for Accessories Kits for field assembly

						
Aluminum actuators for field assembly	Electro Mechanical Limit Switch	Inductive Limit Switch	Electro Mechanical Limit Switch ATEX	Stainless Steel Actuator*	Electric Actuator*	Solenoid Valve
See Tables (1,2,3)	Z - LSM	Z - LSI	Z - LSAX	Z - 6S1	Z - E1	Z - SV

Mounting Kits for field assembly of Limit Switches :

Actuator Type	Mounting Kit Description
A1 /A1S	Z-LS-MK-A1
A2 /A2S	Z-LS-MK-A2
A3 /A3S	Z-LS-MK-A3

* For Stainless Steel Actuator or Electric Actuator Please contact your local representative.

WARNING: Select the right component for safety's sake: The total design of the system must be taken into consideration when selecting components in order to ensure that your HAM-LET products provide safe, trouble-free operation. It is the responsibility of the system designer and the user to consider the compatibility of the materials, of the components and system, the function of the component, appropriate ratings and to ensure proper installation, operation and maintenance. Improper selection or use of products can cause property damage or personal injury, in respect of which the system designer and/or the user shall be solely liable and responsible.



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