



HAM-LET PNEUMATIC RACK AND PINION ACTUATORS



- ✔ ATEX certification
- ✔ 90° Actuation for 2-way valves (Straight & Angle) and 180° Actuation for T-type valves
- ✔ Limit switches, proximity sensors, position indicators, solenoid valves, and other accessories are available upon request



HAM-LET PNEUMATIC ACTUATORS



FEATURES

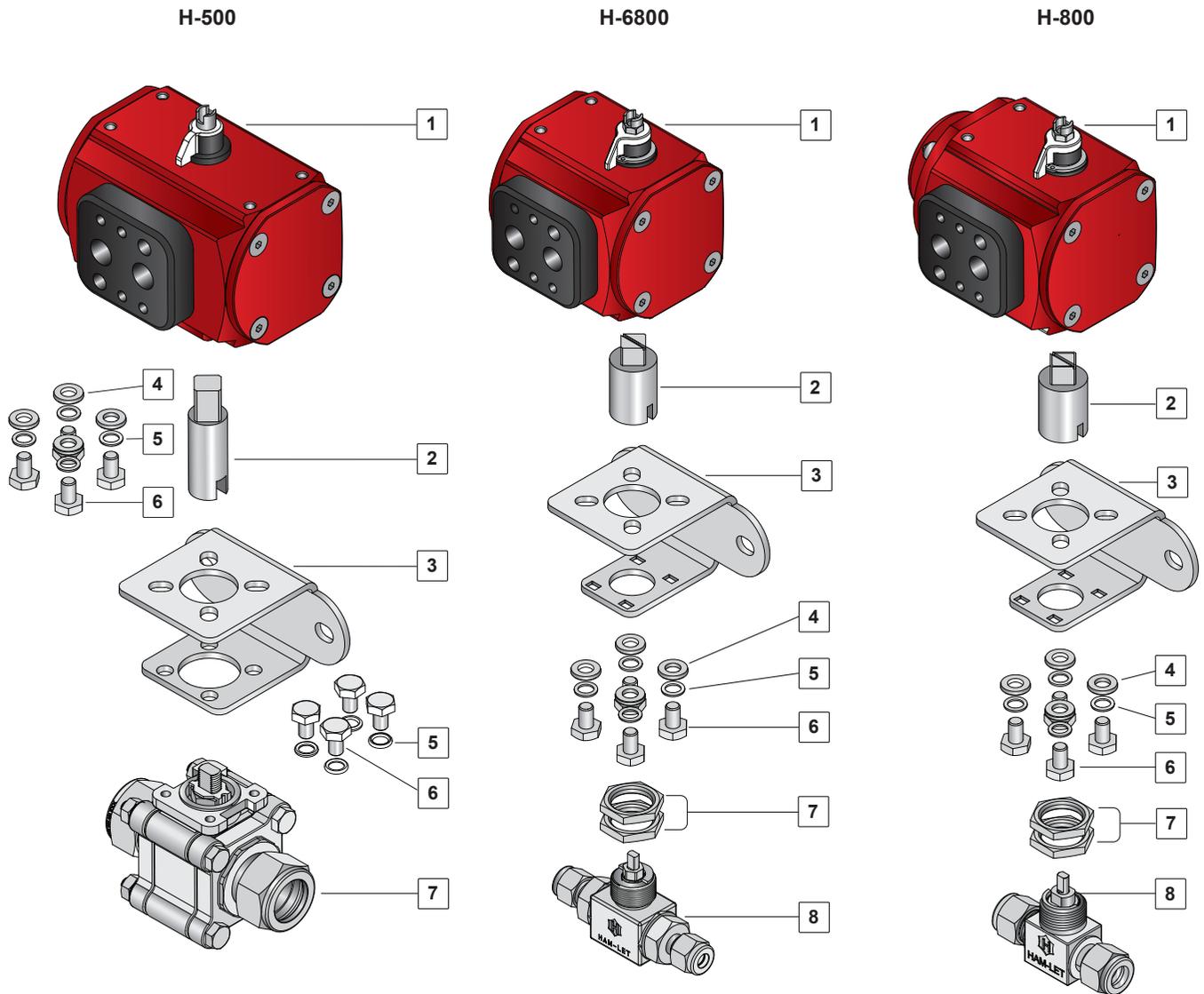
- Pneumatic rack and pinion actuators
- 90° actuation for two-way valves (straight & angle)
- 180° actuation for three-way (T-type) valves
- Actuators comply with industry standards for interface with ISO 5211, NAMUR and VDI/VDE 3845
- Actuated valves are available with the actuator and mounting kits factory assembled
- 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") and 180° actuator (designator "A2T"), Medium (designator "A3"), and Large (designator "A4")
- Improved operational speed enables better valve opening and closing control
- ATEX certification of the valve-actuator assembly is available



MATERIALS 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	SST 316	Coupling	1	SST 316	Coupling	1	SST316
3	Bracket	1	SST 304	Bracket	1	SST 304	Bracket	1	SST 304
4	Washer flat	4	SST 304	Washer flat	4	SST 304	Washer flat	4	SST 304
5	Washer spring	8	SST 304	Washer spring	4	SST 304	Washer spring	4	SST 304
6	Screw	8	SST 304	Screw	4	SST 304	Screw	4	SST 304
7	H-500	1	SST 316	Panel nut	2	SST 316	Panel nut	2	SST 316
8	-	-	-	H-6800	1	SST 316	H-800	1	SST 316

H-6800 SERIES

H-6800 High Performance Ball Valves features, materials and technical data are available in the H-6800 valves section.

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

Example:

H6800SSL1/4PSS with standard Double-Acting Aluminum Actuator
H6800SSL1/4PS-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**

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

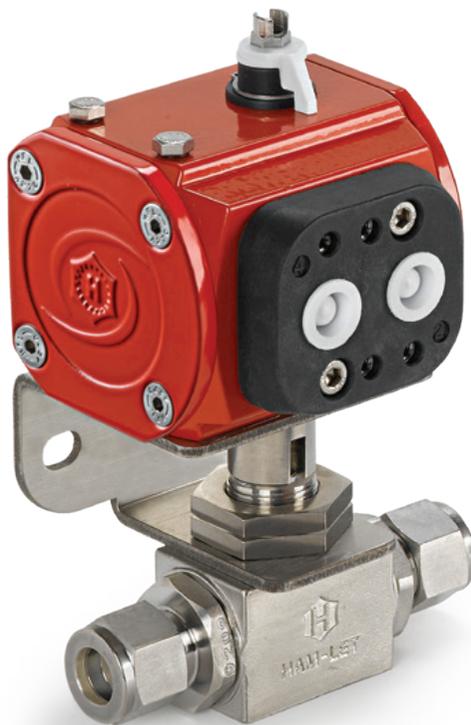


TABLE 1

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)	Modified PTFE PCTFE	5 (72.5)	A1O	A1C	A1	Z-A1S	Z-A1	Z-6800-MK-1/4"-F03-F04-A1
		PEEK	5 (72.5)	A2O	A2C		Z-A2S		Z-6800-MK-1/4"-F03-F04-A2
	1/2"-3/4" (12mm-18mm)	Modified PTFE	5 (72.5)	A1O	A1C	A1	Z-A1S	Z-A1	Z-6800-MK-1/2"-F03-F04-A1
		PCTFE	5 (72.5)	A2O	A2C		Z-A2S		Z-6800-MK-1/2"-F03-F04-A2
		PEEK	5 (72.5)	A3O	A3C	A2	Z-A3S	Z-A2	Z-6800-MK-1/2"-F03-F04-A3
H-6800 T-type	1/16"-3/8" (3mm-10mm)	Modified PTFE 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

HAM-LET ISO 5211 MOUNTING KITS FOR H-6800 SERIESN:

Part	Qty	Material
Coupling	1	SST 316
Bracket	1	SST 304
Screw	4	SST 304
Washer spring	4	SST 304
Washer flat	4	SST 304
Panel nut	2	SST 316
Mounting instructions	1	-

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

H-800 SERIES

H-800 One-Piece Ball Valves features, materials and technical data, are available in the H-800 valves section.

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 factory assembled ball valve 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



TABLE 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			A1O	A1C		Z-A1S		Z-800M-MK-F03-F04-A1
	L			A2O	A2C		Z-A2S		SR: Z-800L-MK-F03-F04-A2 DA: Z-800L-MK-F03-F04-A1
H-800 T-Type	S	PFA	5 (72.5)	A2TS	A2TS	A2T	Z-A2TS	Z-A2T	Z-800S-MK-F03-F04-A2
	M								Z-800M-MK-F03-F04-A2
	L								Z-800L-MK-F03-F04-A2

HAM-LET ISO 5211 MOUNTING KITS FOR H-800 SERIES CONTAIN:

Part	Qty	Material
Coupling	1	SST 316
Bracket	1	SST 304
Screw	4	SST 304
Washer spring	4	SST 304
Washer flat	4	SST 304
Panel nut	2	SST 316
Mounting instructions	1	-

Mounting Kit ordering information describes interface per ISO 5211.
 For example: Z-800M-MK-F03-F04-A2 complies with: ISO 5211 flange types F03-F04

H-500 SERIES

H-500 Three-Piece Ball Valves features, materials, and technical data, are available in the H-500 valves section.

The selection of valve-actuator assemblies 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, in accordance with table A.

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

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: Double Acting Actuator ordering number: **Z-A2**

Corresponding mounting kit: **Z-500-MK-3/4 -F03-F04-A2**

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.

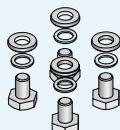
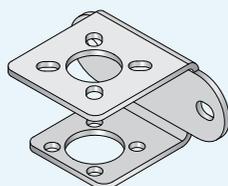


TABLE 3

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-500S	1/4", 3/8" (6 mm, 10 mm)	Modified PTFE	5 (72.5)	A1O	A1C	A1	Z-A1S	Z-A1	Z-500S-MK-1/4"-F03-F04-A1
H-500	1/4"-1/2" (6 mm-12 mm)	PTFE Modified 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
		SST 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 Modified PTFE	5 (72.5)	A2O	A2C	A2	Z-A2S	Z-A2	Z-500-MK-3/4"-F03-F04-A2
		SST 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 Modified PTFE SST 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)	A5O	A5C	A4	Z-A5S	Z-A4	SR: Z-500-MK-1"-F05-F07-A5 DA: Z-500-MK-1"-F05-F07-A4

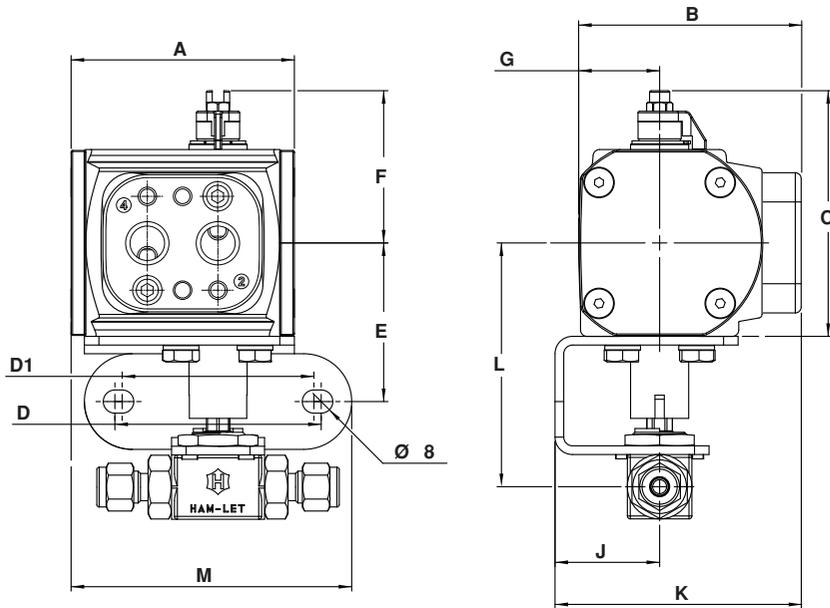
HAM-LET ISO 5211 MOUNTING KITS FOR H-500 SERIES :

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.



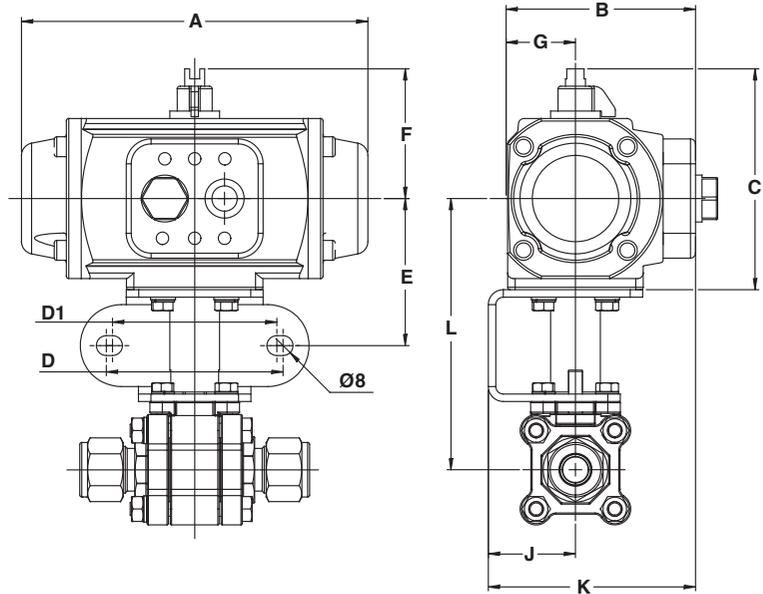
Part	Qty	Material
Coupling	1	SST 316
Bracket	1	SST 304
Screw	8	SST 304
Washer Spring	8	SST 304
Washer Flat	4	SST 304
Panel Nut	1	SST 316
Mounting Instructions	1	-

**DIMENSIONS FOR ASSEMBLED ACTUATORS -
H-800 & H-6800 TWO-WAY VALVE SERIES**



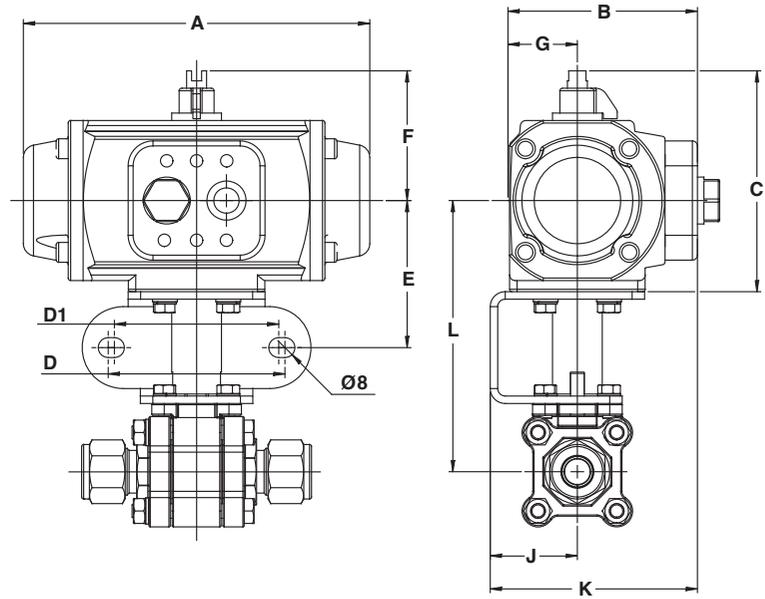
Series	Body Designator	Ends Size	Seats Material	Actuator Model	Units	A	B	C	D	D1	E	F	G	J	K	L	M	
H-6800	1/4"	1/16"-3/8" (3mm-10mm)	Modified PTFE PCTFE	SR A1S	mm	96.5	76.1	84.1	71.0	66.0	54.7	51.8	27.9	35.0	83.2	88.5	116.2	
					inch	3.80	3.00	3.31	2.80	2.60	2.15	2.04	1.10	1.38	3.27	3.48	4.57	
				DA A1	mm	76.8	76.1	84.1	71.0	66.0	54.7	51.8	27.9	35.0	83.2	88.5	96.6	
				inch	3.02	3.00	3.31	2.80	2.60	2.15	2.04	1.10	1.38	3.27	3.48	3.80		
			PEEK	SR A2S	mm	140.2	76.1	88.6	71.0	66.0	59.2	51.8	27.9	35.0	83.2	92.8	-	
					inch	5.52	3.00	3.49	2.80	2.60	2.33	2.04	1.10	1.38	3.27	3.65	-	
		DA A1	mm	76.8	76.1	84.1	71.0	66.0	54.7	51.8	27.9	35.0	83.2	88.5	96.6			
			inch	3.02	3.00	3.31	2.80	2.60	2.15	2.04	1.10	1.38	3.27	3.48	3.80			
	H-6800	1/2"	1/2"-3/4" (12mm-18mm)	Modified PTFE PCTFE	SR A1S	mm	96.5	76.1	84.1	71.0	66.0	54.7	51.8	27.9	35.0	83.2	93.2	116.2
						inch	3.80	3.00	3.31	2.80	2.60	2.15	2.04	1.10	1.38	3.27	3.67	4.57
					DA A1	mm	76.8	76.1	84.1	71.0	66.0	54.7	51.8	27.9	35.0	83.2	93.2	96.6
					inch	3.02	3.00	3.31	2.80	2.60	2.15	2.04	1.10	1.38	3.27	3.67	3.80	
PCTFE				SR A2S	mm	140.2	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	97.7	-	
					inch	5.52	3.00	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	3.85	-	
		DA A2	mm	101.0	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	97.7	-			
			inch	3.97	3.00	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	3.85	-			
PEEK		SR A3S	mm	152.3	84.1	111.3	71.0	66.0	65.7	68.1	31.9	44.0	96.2	104.2	-			
			inch	6.00	3.31	4.38	2.80	2.60	2.58	2.68	1.25	1.73	3.79	4.10	-			
		DA A2	mm	101	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	97.7	-			
			inch	3.97	3.00	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	3.85	-			
H-800	S	1/16"-1/4" (3mm-6mm)	PFA	SR A1S	mm	96.5	76.1	84.1	71.0	66.0	54.7	51.8	27.9	35.0	83.2	85.8	116.2	
					inch	3.80	3.00	3.31	2.80	2.60	2.15	2.04	1.10	1.38	3.27	3.38	4.57	
				DA A1	mm	76.8	76.1	84.1	71.0	66.0	54.7	51.8	27.9	35.0	83.2	85.8	96.6	
					inch	3.02	3.00	3.31	2.80	2.60	2.15	2.04	1.10	1.38	3.27	3.38	3.80	
	M	1/4"-3/8" (6mm-8mm)		SR A1S	mm	96.5	76.1	84.1	71.0	66.0	54.7	51.8	27.9	35.0	83.2	88.4	116.2	
					inch	3.80	3.00	3.31	2.80	2.60	2.15	2.04	1.10	1.38	3.27	3.48	4.57	
				DA A1	mm	76.8	76.1	84.1	71.0	66.0	54.7	51.8	27.9	35	83.2	88.4	96.6	
					inch	3.02	3.00	3.31	2.80	2.60	2.15	2.04	1.10	1.38	3.27	3.48	3.80	
	L	3/8"-1/2" (10mm-12mm)		SR A2S	mm	140.2	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	95.9	-	
					inch	5.52	3.00	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	3.77	-	
				DA A1	mm	76.8	76.1	84.1	71.0	66.0	54.7	51.8	27.9	35.0	83.2	91.4	96.6	
					inch	3.02	3.00	3.31	2.80	2.60	2.15	2.04	1.10	1.38	3.27	3.6	3.80	

**DIMENSIONS FOR
ASSEMBLED ACTUATORS
H-500 SERIES**



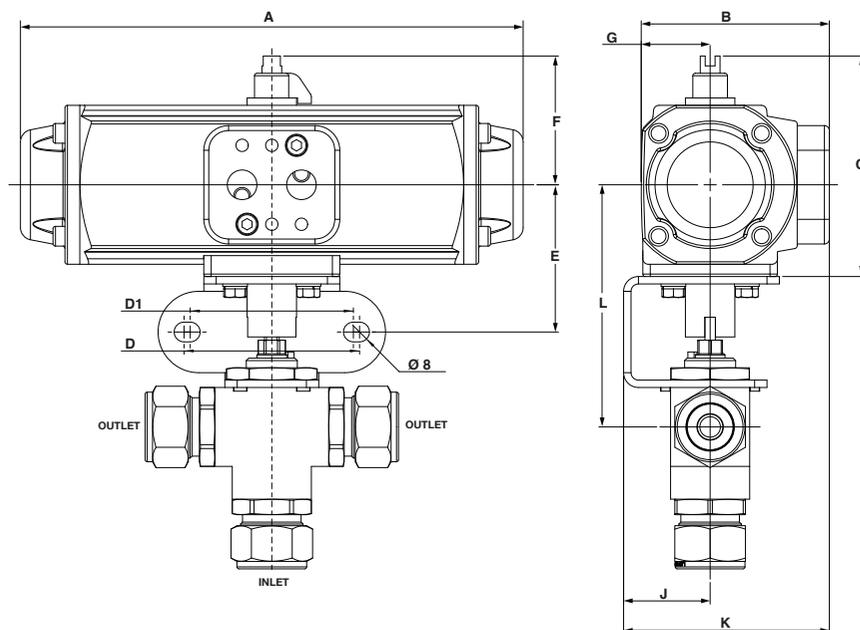
Series	Body Designator	Ends Size	Seats Material	Actuator Model		Units	A	B	C	D	D1	E	F	G	J	K	L
							mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
H-500S	1/4"	1/4", 3/8" (6mm, 10mm)	Modified PTFE	SR	A1S	mm	95.8	76.1	84.1	33.0	29.0	48.2	51.8	27.9	31.0	79.2	88.2
				inch	3.77	3.00	3.31	1.30	1.14	1.90	2.04	1.10	1.22	3.12	3.47		
			DA	A1	mm	76.9	76.1	84.1	33.0	29.0	48.2	51.8	27.9	31.0	79.2	88.2	
			inch	3.03	3.00	3.31	1.30	1.14	1.90	2.04	1.10	1.22	3.12	3.47			
H-500	1/2"	1/4"-1/2" (6mm-12mm)	PTFE Modified PTFE	SR	A2S	mm	140.2	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	109.2
				inch	5.52	3.0	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	4.30		
			DA	A1	mm	76.8	76.1	84.1	71.0	66.0	54.7	51.8	27.9	35.0	83.2	104.7	
			inch	3.02	3.0	3.31	2.80	2.60	2.15	2.04	1.10	1.38	3.27	4.12			
			SST PTFE	SR	A2S	mm	140.2	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	109.2
				inch	5.52	3.0	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	4.30		
			DA	A2	mm	101.0	76.1	88.6	7.01	66.0	59.7	51.8	27.9	35.0	83.2	109.2	
			inch	3.97	3.0	3.49	2.08	2.60	2.35	2.04	1.10	1.38	3.27	4.30			
			PEEK	SR	A4S	mm	200.8	109.4	128.5	71.0	66.0	71.7	79.2	47.7	44.0	105.7	121.7
				inch	7.91	4.31	5.06	2.80	2.60	2.82	3.12	1.88	1.73	4.16	4.79		
			DA	A3	mm	152.3	84.1	111.3	71.0	66.0	65.7	68.1	31.9	44.0	96.2	115.7	
			inch	6.0	3.31	4.38	2.8	2.60	2.58	2.68	1.25	1.73	3.79	4.55			
	3/4"	3/4" (18mm)	PTFE Modified PTFE	SR	A2S	mm	140.2	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	112.5
				inch	5.52	3.0	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	4.43		
			DA	A2	mm	101.0	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	112.5	
			inch	3.97	3.0	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	4.43			
			SST PTFE	SR	A3S	mm	152.3	84.1	111.3	71.0	66.0	65.7	68.1	31.9	44.0	96.2	119.0
				inch	6.00	3.31	4.38	2.80	2.60	2.58	2.68	1.25	1.73	3.79	4.68		
			DA	A2	mm	101.0	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	112.5	
			inch	3.97	3.0	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	4.43			
			PEEK	SR	A4S	mm	200.8	109.4	128.5	71.0	66.0	71.7	79.2	47.7	44.0	105.7	125.0
				inch	7.91	4.31	5.06	2.80	2.60	2.82	3.12	1.88	1.73	4.16	4.92		
			DA	A4	mm	200.8	109.4	128.5	71.0	66.0	71.7	79.2	47.7	44.0	105.7	125.0	
			inch	7.91	4.31	5.06	2.80	2.60	2.82	3.12	1.88	1.73	4.16	4.92			

**DIMENSIONS FOR
ASSEMBLED ACTUATORS
H500-SERIES**
(CONTINUED)



Series	Body Designator	Ends Size	Seats Material	Actuator Model	Units	A	B	C	D	D1	E	F	G	J	K	L		
H-500	1"	1" (25 mm)	SST PTFE PTFE Modified PTFE	SR	A4S	mm	200.8	109.4	128.5	71.0	66.0	71.7	79.2	47.7	44.0	105.7	131.7	
						inch	7.91	4.31	5.06	2.80	2.60	2.82	3.12	1.88	1.73	4.16	5.19	
				DA	A3	mm	152.3	84.1	111.3	71.0	66.0	65.7	68.1	31.9	44.0	96.2	125.7	
						inch	6.00	3.31	4.38	2.80	2.6	2.58	2.68	1.25	1.73	3.79	4.95	
				PEEK	SR	A4S	mm	200.8	109.4	128.5	71.0	66.0	71.7	79.2	47.7	44.0	105.7	131.7
							inch	7.91	4.31	5.06	2.80	2.60	2.82	3.12	1.88	1.73	4.16	5.19
			DA		A4	mm	200.8	109.4	128.5	71.0	66.0	71.7	79.2	47.7	44.0	105.7	131.7	
						inch	7.91	4.31	5.06	2.80	2.60	2.82	3.12	1.88	1.73	4.16	5.19	

DIMENSIONS FOR ASSEMBLED 180° ACTUATORS H-800 T-TYPE & H-6800 T-TYPE SERIES



Series	Body Designator	Ends Size	Seats Material	Actuator Model	Units	A	B	C	D	D1	E	F	G	J	K	L
H-6800 T-type	1/4"	1/16"-3/8" (3mm-10mm)	Modified PTFE PCTFE PEEK	SR A2ST	mm	204.4	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	93.0
					inch	8.05	3.00	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	3.66
				DA A2T	mm	165.4	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	93.0
					inch	6.51	3.00	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	3.66
	1/2"	1/2"-3/4" (12mm-18mm)	Modified PTFE	SR A2ST	mm	204.4	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	97.7
					inch	8.05	3.00	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	3.85
				DA A2T	mm	165.4	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	97.7
					inch	6.51	3.00	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	3.85
H-800 T-type	S	1/16"-1/4" (3mm-6mm)	PFA	SR A2ST	mm	204.4	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	90.3
					inch	8.05	3.00	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	3.55
				DA A2T	mm	165.4	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	90.3
					inch	6.51	3.00	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	3.55
	M	1/4"-3/8" (6mm-8mm)		SR A2ST	mm	204.4	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	92.9
					inch	8.05	3.00	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	3.66
				DA A2T	mm	165.4	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	92.9
					inch	6.51	3.00	3.49	2.80	2.60	2.35	2.04	1.01	1.38	3.27	3.66
	L	3/8"-1/2" (10mm-12mm)	SR A2ST	mm	204.4	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	95.9	
				inch	8.05	3.0	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	3.77	
			DA A2T	mm	165.4	76.1	88.6	71.0	66.0	59.7	51.8	27.9	35.0	83.2	95.9	
				inch	6.51	3.0	3.49	2.80	2.60	2.35	2.04	1.10	1.38	3.27	3.77	

ALUMINUM PNEUMATIC ACTUATOR-TECHNICAL DATA

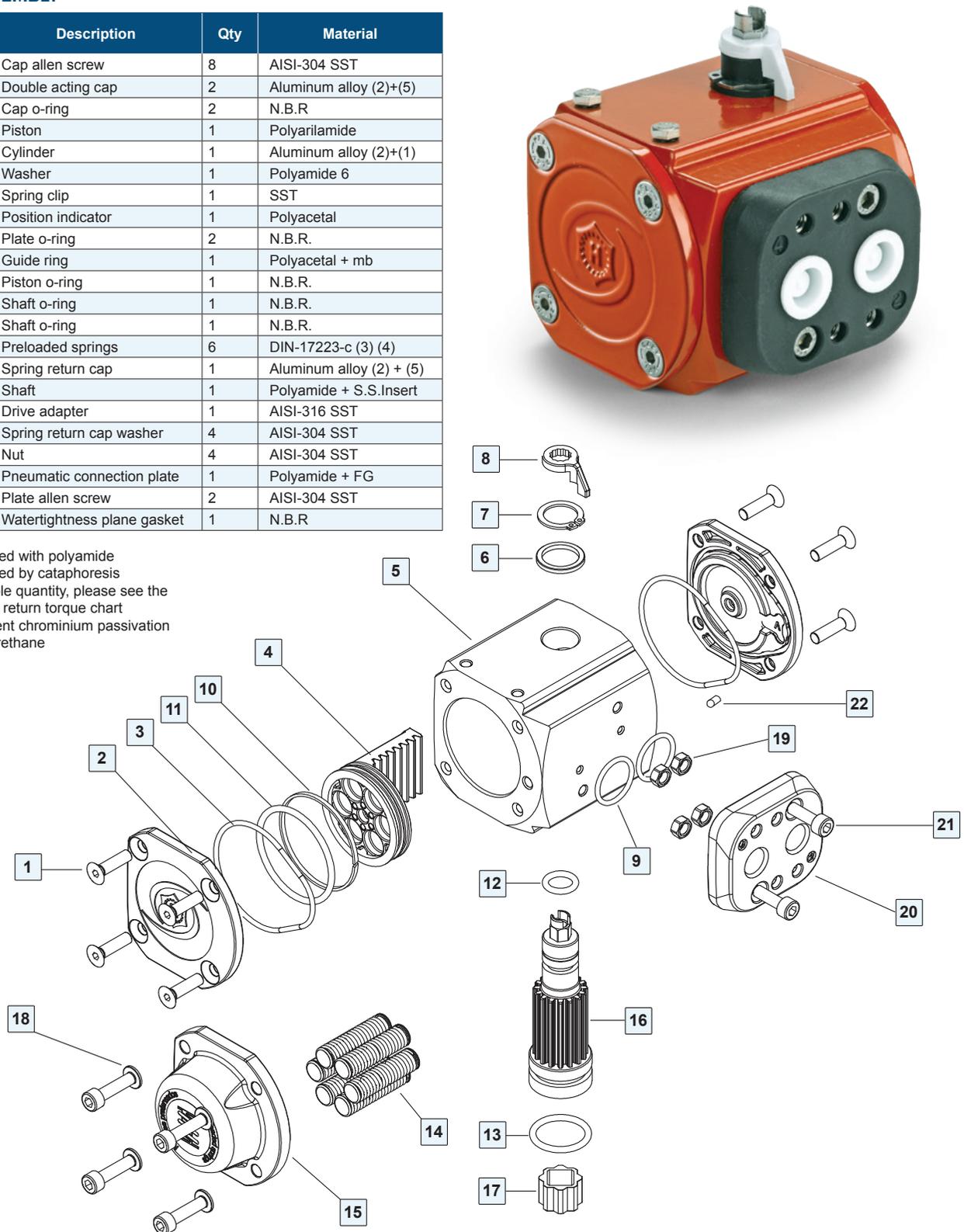
A1S: SPRING RETURN

A1: DOUBLE ACTING

DISASSEMBLY

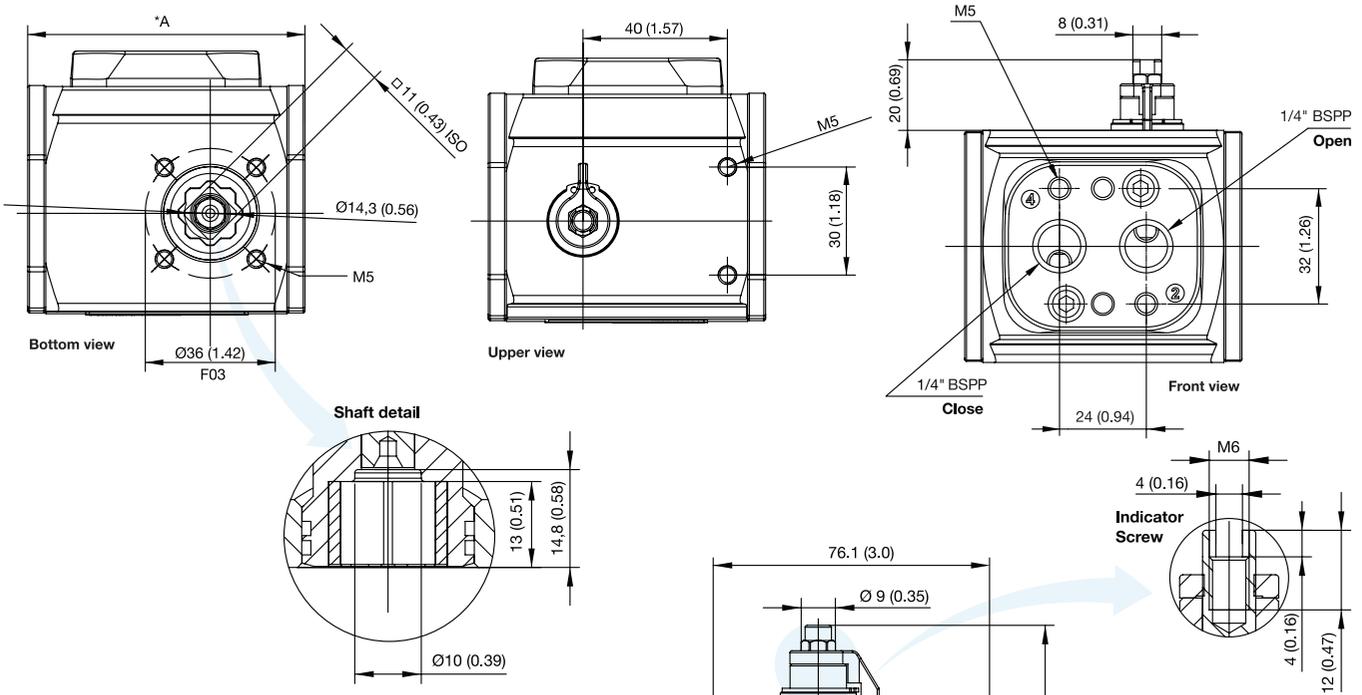
No.	Description	Qty	Material
1	Cap allen screw	8	AISI-304 SST
2	Double acting cap	2	Aluminum alloy (2)+(5)
3	Cap o-ring	2	N.B.R
4	Piston	1	Polyarilamide
5	Cylinder	1	Aluminum alloy (2)+(1)
6	Washer	1	Polyamide 6
7	Spring clip	1	SST
8	Position indicator	1	Polyacetal
9	Plate o-ring	2	N.B.R.
10	Guide ring	1	Polyacetal + mb
11	Piston o-ring	1	N.B.R.
12	Shaft o-ring	1	N.B.R.
13	Shaft o-ring	1	N.B.R.
14	Preloaded springs	6	DIN-17223-c (3) (4)
15	Spring return cap	1	Aluminum alloy (2) + (5)
16	Shaft	1	Polyamide + S.S.Insert
17	Drive adapter	1	AISI-316 SST
18	Spring return cap washer	4	AISI-304 SST
19	Nut	4	AISI-304 SST
20	Pneumatic connection plate	1	Polyamide + FG
21	Plate allen screw	2	AISI-304 SST
22	Watertightness plane gasket	1	N.B.R

1. Covered with polyamide
2. Covered by cataphoresis
3. Variable quantity, please see the spring return torque chart
4. Trivalent chromium passivation
5. Polyurethane



Model	Cycle time (in sec)		Weight		Capacity (in litres)	
	To open	To close	Kg.	Lb.	To open	To close
A1	0.10	0.10	0.65	1.43	0.07	0.15
A1S	0.15	0.15	0.72	1.58	0.07	-

Cycle time without resistant torque at 6 bar. Dimensions in mm.
To calculate the consumption, multiply the above figures by the real working pressure.



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

DOUBLE-ACTING TORQUES

A1	Air Pressure						
	3.0	4.0	5.0	5.5	6.0	7.0	8.0
Bar	3.0	4.0	5.0	5.5	6.0	7.0	8.0
PSI	43.5	58	72.5	79.8	87	101.5	116
Nm	4.0	5.5	7.0	7.7	8.5	9.8	11.2
Lb.in	35.4	48.7	62.0	68.2	75.2	86.7	99.1

SPRING RETURN TORQUES

A1S	Unit	Spring Torques	Torque At Indicated Pressure															
			3 (bar)		4 (bar)		5 (bar)		5.5 (bar)		6 (bar)		7 (bar)		8 (bar)			
			43.5 (psi)	58 (psi)	72.5 (psi)	79.8 (psi)	87 (psi)	101.5 (psi)	116 (psi)	Initial	End	Initial	End	Initial	End	Initial	End	
N		Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	
6 ¹	Nm	5.80	4.00	-	-	-	-	3.00	1.20	3.70	1.90	4.5	2.70	5.80	4.00	7.20	5.40	
	Lb.in	51.3	35.6	-	-	-	-	26.4	10.6	32.6	16.8	39.7	23.9	51.2	35.4	63.5	47.8	
5	Nm	4.90	3.40	-	-	2.10	0.60	3.60	2.10	4.30	2.80	5.1	3.60	6.40	4.90	7.80	6.30	
	Lb.in	43.4	30.1	-	-	18.6	5.30	31.9	18.6	38.1	24.8	45.1	31.9	56.6	43.4	69.0	55.8	
4	Nm	4.00	2.80	-	-	2.70	1.50	4.20	3.00	4.90	3.70	5.7	4.50	7.00	5.80	8.40	7.20	
	Lb.in	35.6	24.4	-	-	24.3	13.1	37.5	26.3	43.7	32.5	50.8	39.6	62.3	51.1	74.7	63.5	
3	Nm	3.20	2.10	1.90	0.80	3.40	2.30	4.90	3.80	5.60	4.50	6.4	5.30	7.70	6.60	-	-	
	Lb.in	28.0	18.6	16.8	7.40	30.1	20.7	43.4	34.0	49.6	40.2	56.6	47.2	68.2	58.7	-	-	
2	Nm	2.30	1.40	2.60	1.70	4.10	3.20	5.60	4.7.0	6.30	5.40	7.10	6.20	-	-	-	-	
	Lb.in	20.4	12.4	23.0	15.0	36.3	28.3	49.6	41.6	55.8	47.8	62.8	54.9	-	-	-	-	

N: Number of springs per side | ¹Standard number of springs

ALUMINUM PNEUMATIC ACTUATOR-TECHNICAL DATA

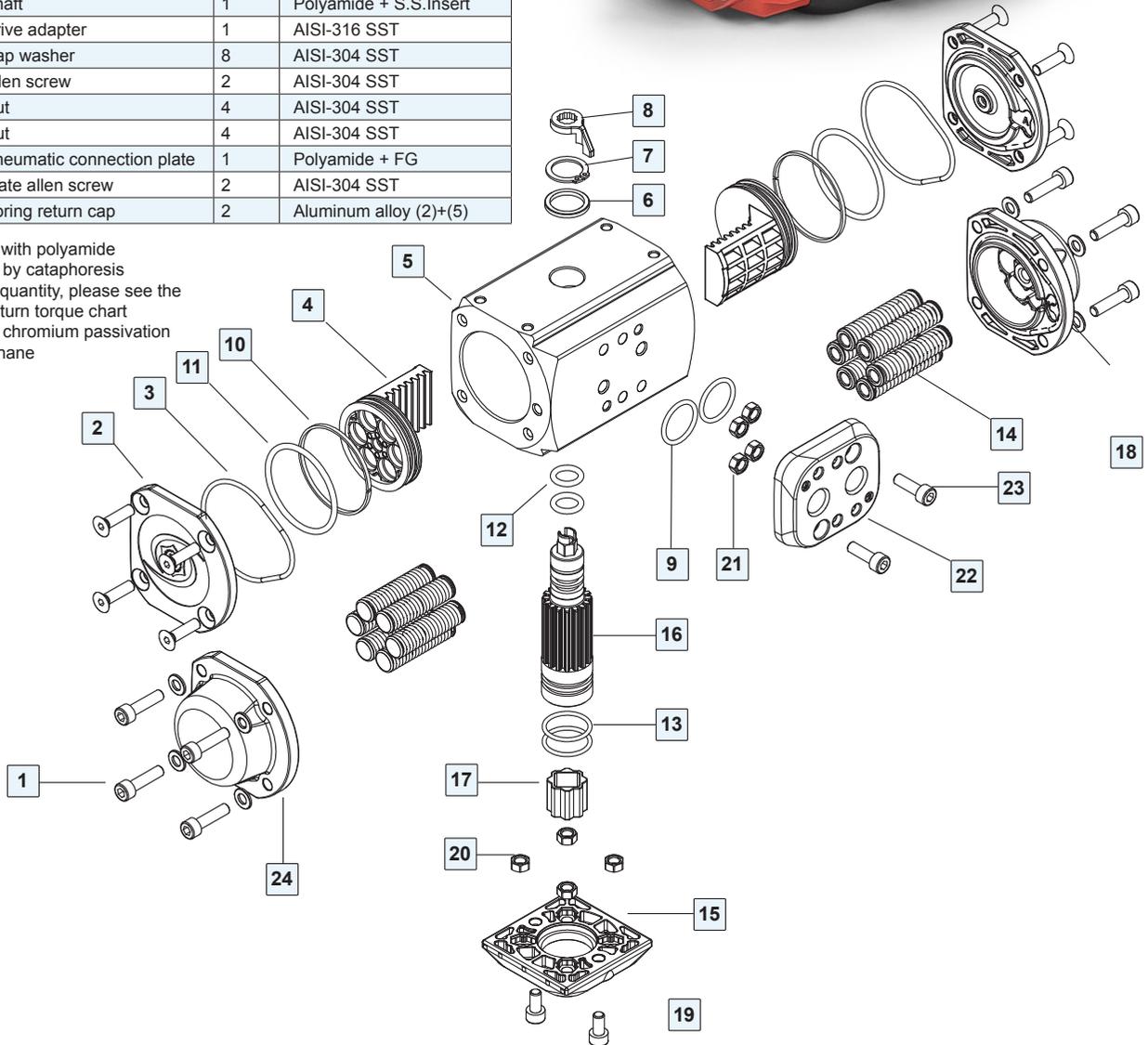
DISASSEMBLY

No.	Description	QTY	Material
1	Cap allen screw	8	AISI-304 SST
2	Double-acting cap	2	Aluminum alloy (2)+(5)
3	Cap o-ring	2	N.B.R
4	Piston	2	Polyarilamide
5	Cylinder	1	Aluminum alloy (2)+(1)
6	Washer	1	Polyamide 6
7	Spring clip	1	SST
8	Position indicator	1	Polyacetal
9	Plate o-ring	2	N.B.R.
10	Guide ring	2	Polyacetal + mb
11	Piston o-ring	2	N.B.R.
12	Shaft o-ring	2	N.B.R.
13	Shaft o-ring	2	N.B.R.
14	Preloaded springs	12	DIN-17223-c (3) (4)
15	Base plate (iso-5211)	1	Polyamide + FG
16	Shaft	1	Polyamide + S.S.Insert
17	Drive adapter	1	AISI-316 SST
18	Cap washer	8	AISI-304 SST
19	Allen screw	2	AISI-304 SST
20	Nut	4	AISI-304 SST
21	Nut	4	AISI-304 SST
22	Pneumatic connection plate	1	Polyamide + FG
23	Plate allen screw	2	AISI-304 SST
24	Spring return cap	2	Aluminum alloy (2)+(5)

A2: DOUBLE-ACTING
 A2S: SPRING RETURN



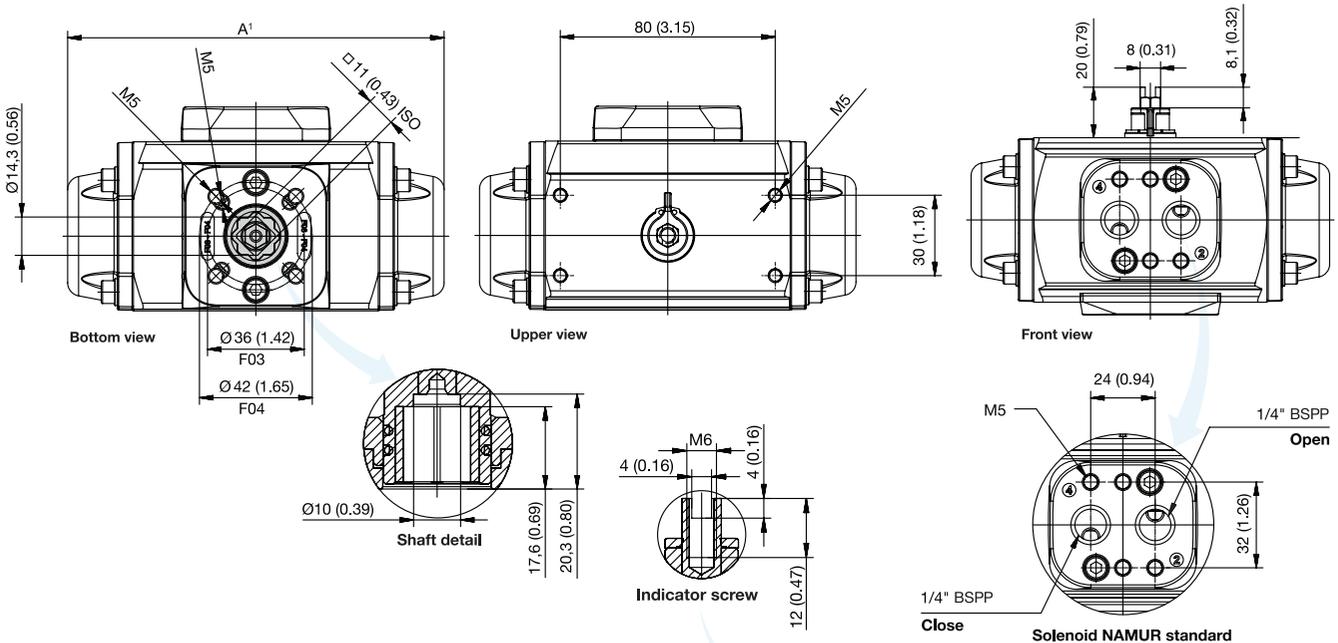
1. Covered with polyamide
2. Covered by cataphoresis
3. Variable quantity, please see the spring return torque chart
4. Trivalent chromium passivation
5. Polyurethane



Model	Cycle Time (in sec)		Weight		Capacity (in litres)	
	To open	To close	Kg.	Lb.	To open	To close
A2	0.10	0.10	0.92	2.02	0.075	0.11
A2S	0.15	0.15	1	2.20	0.075	-

Cycle time without resistant torque at 6 bar.
Dimensions in mm.

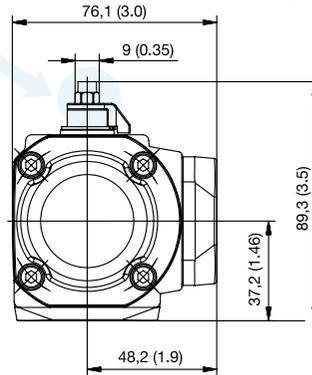
To calculate the consumption, multiply the above figures by the real working pressure.



¹For Spring return actuator: A = 140.2mm (5.5 inch)
For Double-Acting actuator: A = 101mm (3.97 inch)

DOUBLE-ACTING TORQUES

A2	Air pressure							
	Bar	3.0	4.0	5.0	5.5	6.0	7.0	8.0
PSI	43.5	58	72.5	79.8	87	101.5	116	
Nm	7.9	11.3	14.1	15.5	17	19.8	22.9	
Lb.in	69.3	100	124.8	137.2	150.5	175.2	202.7	



SPRING RETURN TORQUES

A2S	Unit	Spring Torques		Air Torque At Indicated Pressure															
				3 (bar)		4 (bar)		5 (bar)		5.5 (bar)		6 (bar)		7 (bar)		8 (bar)			
				43.5 (psi)	58 (psi)	72.5 (psi)	79.8 (psi)	87 (psi)	101.5 (psi)	116 (psi)	Initial	End	Initial	End	Initial	End	Initial	End	
N		Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End		
				-	-	-	-	7.4	4.10	8.80	5.5	10.3	7.00	13.1	9.80	16.2	12.9		
6 ¹	Nm	10.0	6.70	-	-	-	-	7.4	4.10	8.80	5.5	10.3	7.00	13.1	9.80	16.2	12.9		
				Lb.in	88.5	59.3	-	-	-	-	65.5	36.3	77.9	48.7	91.2	62.0	115.9	86.7	143.4
5	Nm	8.50	5.80	-	-	5.50	2.80	8.30	5.60	9.7	7.00	11.2	8.50	14.0	11.3	17.1	14.4		
				Lb.in	75.2	51.3	-	-	48.7	24.8	73.5	49.6	85.9	62.0	99.1	75.2	123.9	100.0	151.3
4	Nm	7.00	4.60	3.30	0.90	6.70	4.30	9.50	7.10	10.9	8.50	12.4	10.0	15.2	12.8	18.3	15.9		
				Lb.in	62.0	40.7	29.2	8.00	59.3	38.1	84.1	62.8	96.5	75.2	109.7	88.5	134.5	113.3	162.0
3	Nm	5.50	3.60	4.30	2.40	7.70	5.80	10.5	8.60	11.9	10.0	13.4	11.5	16.2	14.3	-	-		
				Lb.in	48.7	31.9	38.1	21.2	68.2	51.3	92.9	76.1	105.3	88.5	118.6	101.8	143.4	126.6	-
2	Nm	4.00	2.40	5.50	3.90	8.90	7.30	11.7	10.1	13.1	11.5	14.6	13.0	-	-	-	-		
				Lb.in	35.4	21.2	48.7	34.5	78.8	64.6	103.6	89.4	115.9	101.8	129.2	115.1	-	-	-

N: Number of springs per side | ¹Standard number of springs

ALUMINUM PNEUMATIC ACTUATOR - TECHNICAL DATA

DISASSEMBLY

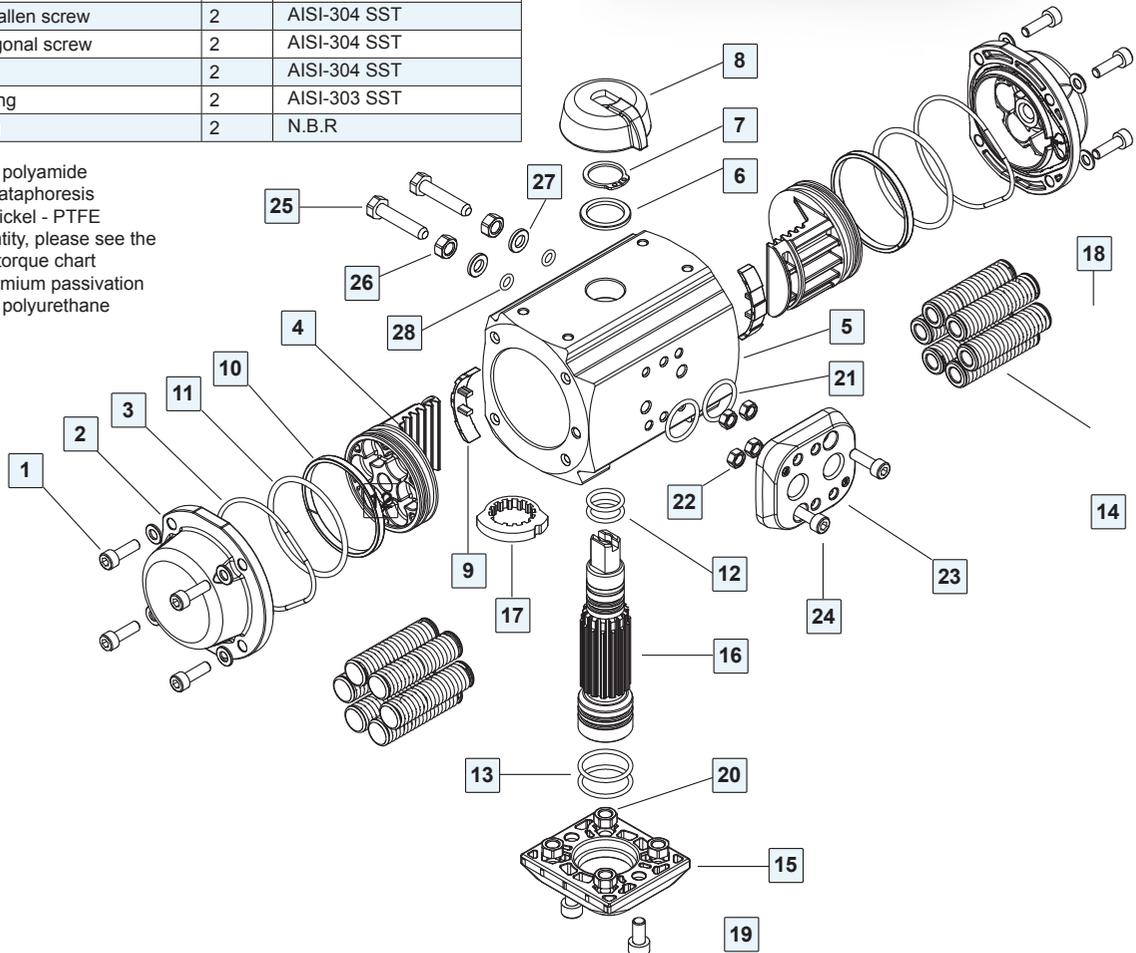
No.	Description	Qty	Material
1	Cap allen screw	8	AISI-304 SST
2	Cap	2	Aluminum alloy (2) + (6)
3	Cap-o-ring	2	N.B.R.
4	Piston	2	Aluminum alloy (2)
5	Cylinder	1	Aluminum alloy (2) + (1)
6	Washer	1	Polyamide 6
7	Spring clip	1	Steel (3)
8	Position indicator	1	Polyamide
9	Piston guide	2	Polyacetal
10	Guide ring	2	Polyacetal
11	Piston o-ring	2	N.B.R.
12	Shaft o-ring	2	N.B.R.
13	Shaft o-ring	2	N.B.R.
14	Preloaded springs	12	DIN-17223-c (5) (4)
15	Base plate (iso-5211)	1	Polyamide + FG
16	Shaft	1	Steel (2)
17	Cam	1	Steel (2)
18	Cap washer	8	AISI-304 SST
19	Allen screw	2	AISI-304 SST
20	Nut	4	AISI-304 SST
21	Plate o-ring	2	N.B.R.
22	Nut	4	AISI-304 SST
23	Pneumatic connection plate	1	Polyamide + FG
24	Plate allen screw	2	AISI-304 SST
25	Hexagonal screw	2	AISI-304 SST
26	Nut	2	AISI-304 SST
27	Bushing	2	AISI-303 SST
28	O-ring	2	N.B.R.

A3: DOUBLE-ACTING

A3S: SPRING RETURN

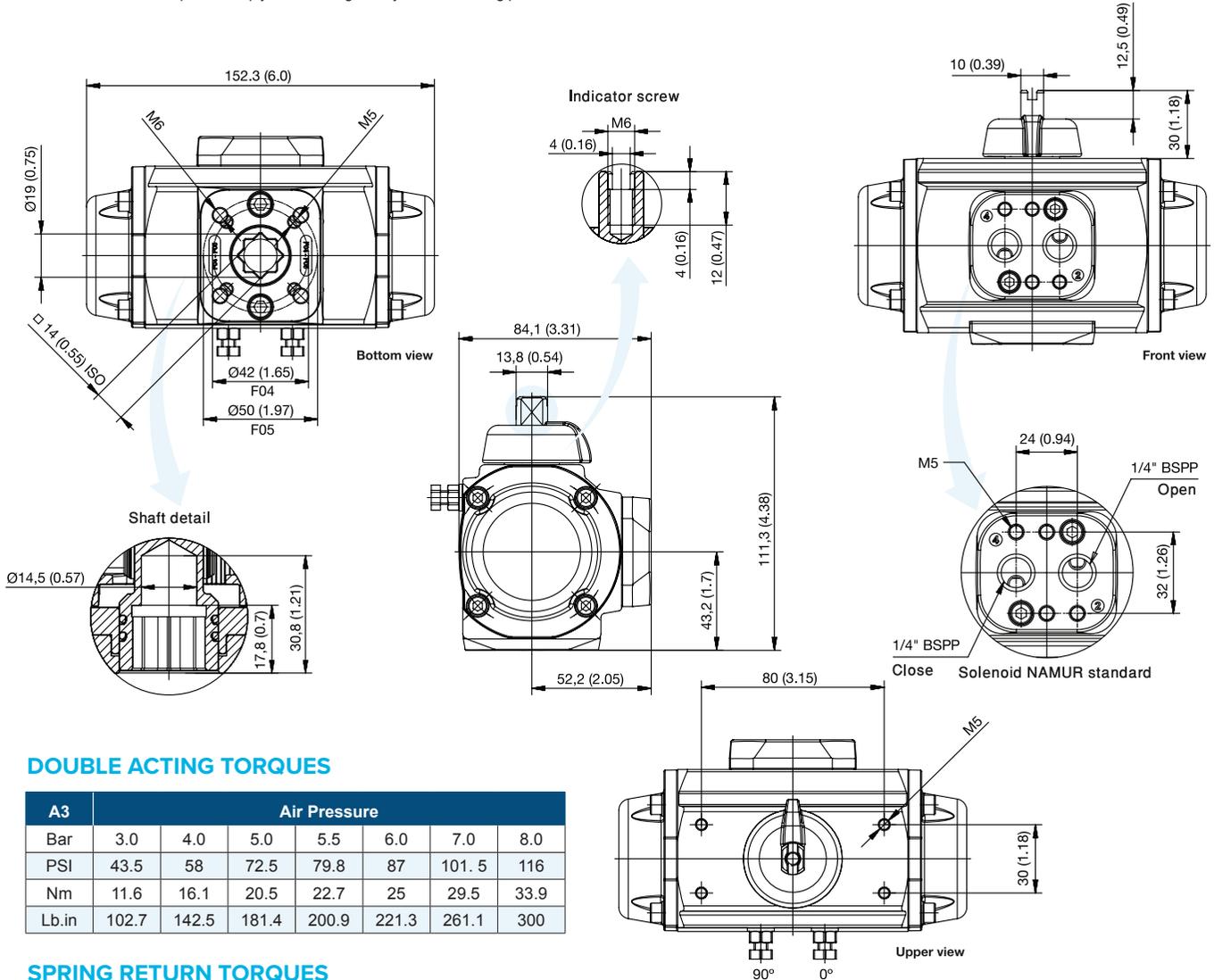


1. Covered with polyamide
2. Covered by cathoporesis
3. Covered by nickel - PTFE
4. Variable quantity, please see the spring return torque chart
5. Trivalent chromium passivation
6. Covered with polyurethane



Model	Cycle time (in sec)		Weight		Capacity (in litres)	
	To open	To close	Kg.	Lb.	To open	To close
A3	0.15	0.15	1.40	3.09	0.15	0.18
A3S	0.2	0.2	1.625	3.58	0.15	-

Cycle time without resistant torque at 6 bar. Dimensions in mm.
To calculate the consumption, multiply the above figures by the real working pressure.



DOUBLE ACTING TORQUES

A3	Air Pressure						
Bar	3.0	4.0	5.0	5.5	6.0	7.0	8.0
PSI	43.5	58	72.5	79.8	87	101.5	116
Nm	11.6	16.1	20.5	22.7	25	29.5	33.9
Lb.in	102.7	142.5	181.4	200.9	221.3	261.1	300

SPRING RETURN TORQUES

A3S	Unit	Spring Torques	Air Torque At Indicated Pressure														
			3 (bar)		4 (bar)		5 (bar)		5,5 (bar)		6 (bar)		7 (bar)		8 (bar)		
			Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	
N		Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End
6 ¹	17,4Nm	16.5	11.1	-	-	-	-	9.4	4.00	11.6	6.20	13.9	8.50	18.4	13.0	22.8	17.4
	Lb.in	146	98.2	-	-	-	-	83.2	35.4	102.7	54.9	123.0	75.2	162.9	115.1	201.8	154
5	Nm	13.8	9.40	-	-	6.70	2.3	11.1	6.70	13.3	8.90	15.6	11.2	20.1	15.7	24.5	20.1
	Lb.in	122.1	83.2	-	-	59.3	20.4	98.2	59.3	117.7	78.8	138.1	99.1	177.9	139	216.8	177.9
4	Nm	11.1	7.60	-	-	8.50	5.00	12.9	9.40	15.1	11.6	17.4	13.9	21.9	18.4	26.3	22.8
	Lb.in	98.2	67.3	-	-	75.2	44.3	114.2	83.2	133.6	102.7	154	123.0	177.9	162.9	232.8	201.8
3	Nm	8.50	5.80	5.80	3.10	10.3	7.60	14.7	12.0	16.9	14.2	19.2	16.5	23.7	21.0	-	-
	Lb.in	75.2	51.3	51.3	27.4	91.2	67.3	130.1	106.2	149.6	125.7	169.9	146	209.8	185.9	-	-
2	Nm	5.80	3.60	8.00	5.80	12.5	10.3	16.9	14.7	19.1	16.9	21.4	19.2	-	-	-	-
	Lb.in	51.3	31.9	70.8	51.3	110.6	91.2	149.6	130.1	169.0	149.6	189.4	169.9	-	-	-	-

N: Number of springs per side | ¹Standard number of springs

ALUMINUM PNEUMATIC ACTUATOR-TECHNICAL DATA

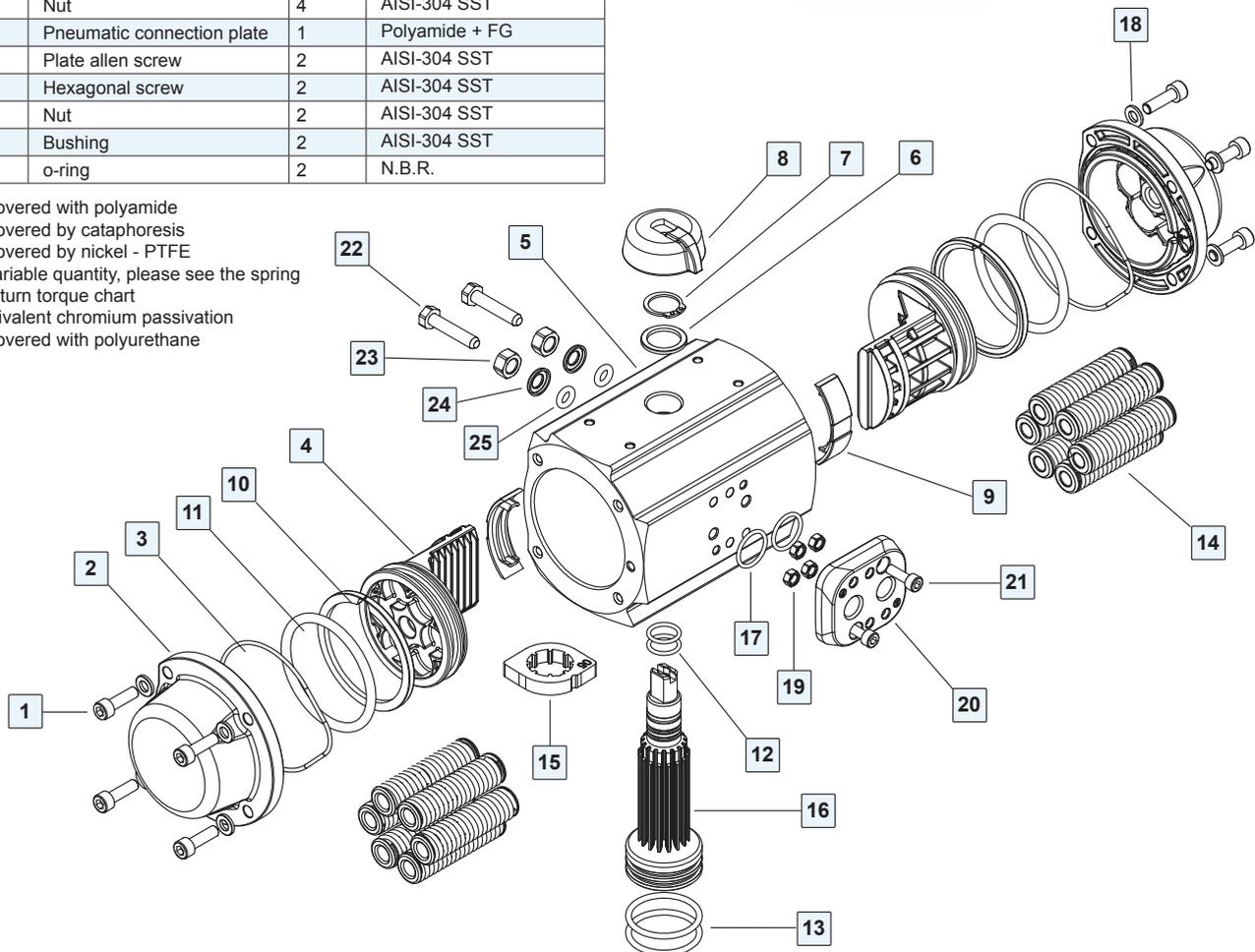
A4: DOUBLE-ACTING

A4S: SPRING RETURN

DISASSEMBLY

No.	Description	Qty	Material
1	Cap allen screw	8	AISI-304 SST
2	Cap	2	Aluminum alloy (2) + (6)
3	Cap-o-ring	2	N.B.R.
4	Piston	2	Aluminum alloy (2)
5	Cylinder	1	Aluminum alloy (2) + (1)
6	Washer	1	Polyamide 6
7	Spring clip	1	Steel (3)
8	Position indicator	1	Polyamide
9	Piston guide	2	Polyacetal
10	Guide ring	2	Polyacetal
11	Piston o-ring	2	N.B.R.
12	Shaft o-ring	2	N.B.R.
13	Shaft o-ring	2	N.B.R.
14	Preloaded springs	12	DIN-17223-c (5) + (4)
15	Cam	1	Steel (2)
16	Shaft	1	Steel (2)
17	Plate o-ring	2	N.B.R.
18	Cap washer	8	AISI-304 SST
19	Nut	4	AISI-304 SST
20	Pneumatic connection plate	1	Polyamide + FG
21	Plate allen screw	2	AISI-304 SST
22	Hexagonal screw	2	AISI-304 SST
23	Nut	2	AISI-304 SST
24	Bushing	2	AISI-304 SST
25	o-ring	2	N.B.R.

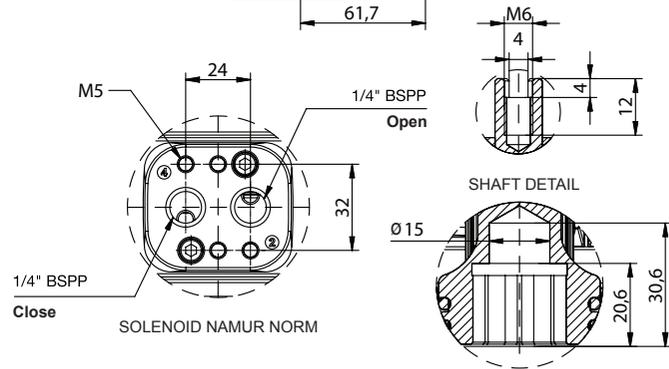
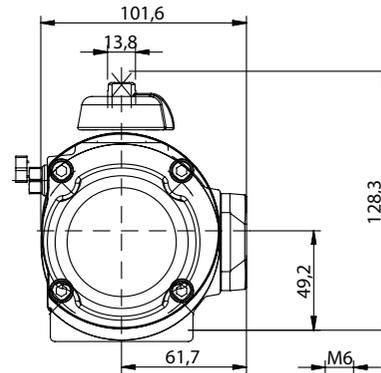
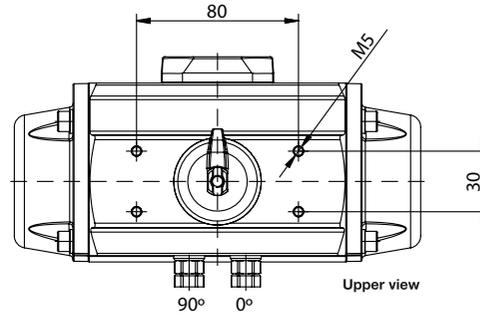
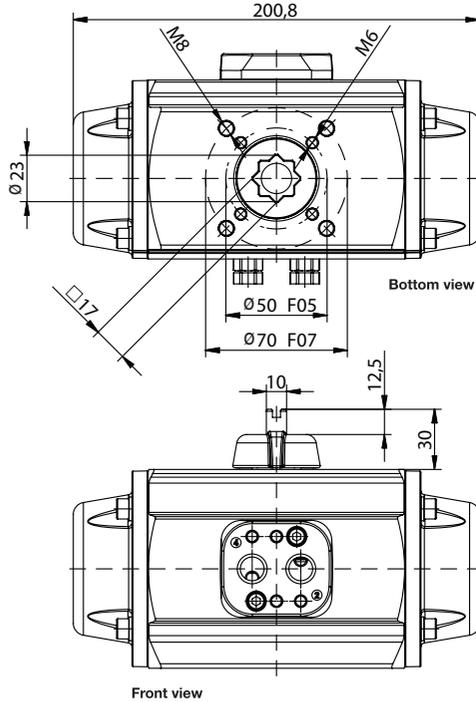
1. Covered with polyamide
2. Covered by cataphoresis
3. Covered by nickel - PTFE
4. Variable quantity, please see the spring return torque chart
5. Trivalent chromium passivation
6. Covered with polyurethane



Model	Cycle time (in sec)		Weight		Capacity (in litres)	
	To open	To close	Kg.	Lb.	To open	To close
A4	0.2	0.2	2.57	5.67	0.28	0.37
A4S	0.25	0.25	2.94	6.49	0.28	-

Cycle time without resistant torque at 6 bar.
Dimensions in mm.

To calculate the consumption, multiply the
above figures by the real working pressure.



DOUBLE-ACTING TORQUES

A4	Air Pressure						
Bar	3.0	4.0	5.0	5.5	6.0	7.0	8.0
PSI	43.5	58	72.5	79.8	87	101.5	116
Nm	23.5	32.3	41.0	45.3	49.7	58.4	67.1
Lb.in	280	286	363	401	440	517	594

SPRING RETURN TORQUES

A4S	Unit	Spring Torques	Air Torque Indicated at Pressure														
			3 (bar)		4 (bar)		5 (bar)		5,5 (bar)		6 (bar)		7 (bar)		8 (bar)		
			43.5 (psi)	58 (psi)	72.5 (psi)	79.8 (psi)	87 (psi)	101.5 (psi)	116 (psi)	Initial	End	Initial	End	Initial	End	Initial	End
N		Initial	End	Initial	End	Initial	End	Initial	End	Initial	19.4	Initial	End	Initial	End	Initial	End
6 ¹	Nm	31.4	20.9	-	-	-	-	20.1	9.6	24.4	13.9	28.8	18.3	37.5	27.0	46.2	35.7
	Lb.in	277.9	185	-	-	-	-	177.9	85.0	216	123	254.9	162	331.9	239.0	408.9	316
5	Nm	27.0	17.4	-	-	14.9	5.30	23.6	14.0	27.9	18.36	32.3	22.7	41.0	31.4	49.7	41.0
	Lb.in	239	154	-	-	131.9	46.9	208.9	123.9	246.9	162	285.9	200.9	362.9	277.9	439.9	354.9
4	Nm	21.8	13.9	9.60	1.70	18.4	10.5	27.1	19.2	31.4	23.5	35.8	27.9	44.5	36.6	53.2	54.3
	Lb.in	192.9	123	85.0	15.0	162.9	92.9	239.9	169.9	277.9	208	316.9	246.9	393.9	323.9	470.9	400.9
3	Nm	18.3	11.3	12.2	5.2	21.0	14.0	29.7	22.7	34.0	27.0	38.4	31.4	47.1	40.1	-	-
	Lb.in	162	100	108.0	46.0	185.9	123.9	262.9	200.9	300.9	239	339.9	277.9	416.9	354.9	-	-
2	Nm	12.2	7.80	15.7	11.3	24.5	20.1	33.2	28.8	37.5	33.1	41.9	37.5	-	-	-	-
	Lb.in	108	69.0	139.0	100	216.8	177.9	293.8	254.9	331.9	293	370.8	331.9	-	-	-	-

N: Number of springs per side | ¹Standard number of springs

180° PNEUMATIC ACTUATOR-TECHNICAL DATA

DISASSEMBLY

No.	Description	Qty	Material
1	Cap screw	8	AISI-304 SST
2	Dual acting cap	2	Aluminium alloy (2) + (4)
3	Cap o-ring	2	N.B.R.
4	Piston	2	Aluminium alloy (2)
5	Cylinder	1	Aluminium alloy (2) + (1)
6	Washer	1	Polyamide 6
7	Spring clip	1	SST ³
8	Position indicator	1	Polyacetal
9	Piston guide	2	Polyacetal
10	Guide ring	2	Polyacetal + Mb
11	Piston o-ring	2	N.B.R.
12	Shaft o-ring	2	N.B.R.
13	Shaft o-ring	2	N.B.R.
14	Springs set	2	DIN-17223-c (2) + (3)
15	Base plate (ISO-5211)	1	Polyamide + FG
16	Shaft	1	Polyamide + S.S. Insert
17	Drive adapter	1	AISI-316 SST
18	Cap washer	8	AISI-304 SST
19	Allen screw	2	AISI-304 SST
20	Nut	4	AISI-304 SST
21	Nut	4	AISI-304 SST
22	Pneumatic connection plate	1	Polyamide + FG
23	Plate allen screw	2	AISI-304 SST
24	Plate O-ring	2	N.B.R.
25	Spring return cap	2	Aluminium alloy (2) + (4)

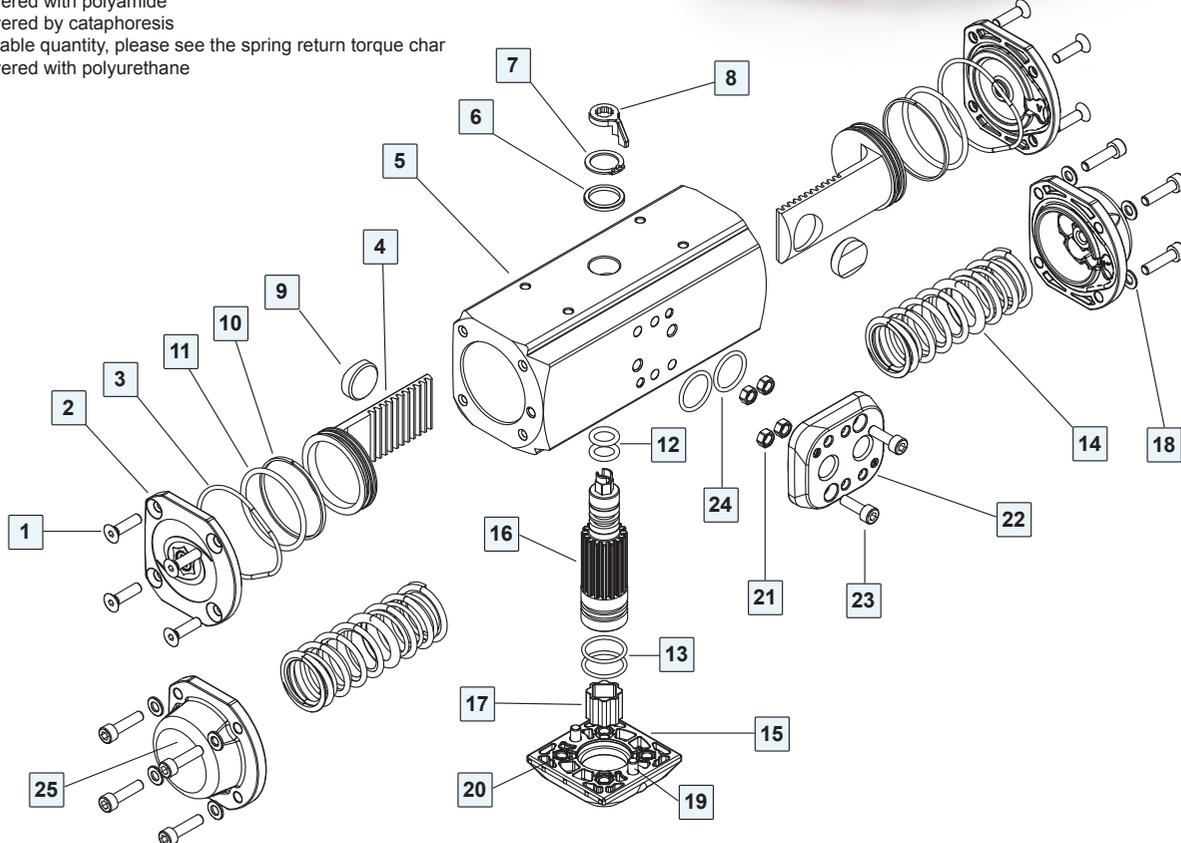
A2T: DOUBLE-ACTING



A2ST: SPRING RETURN

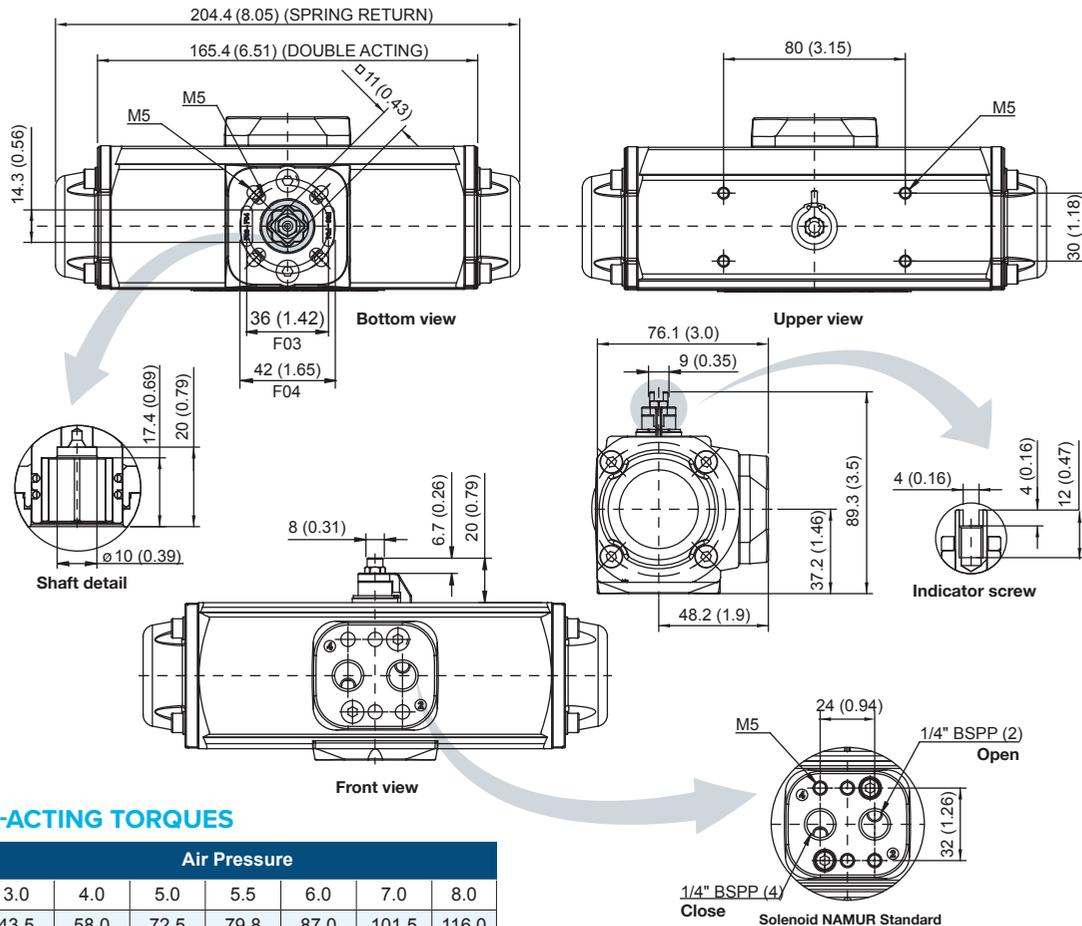


1. Covered with polyamide
2. Covered by cataphoresis
3. Variable quantity, please see the spring return torque char
4. Covered with polyurethane



Model	Cycle time (in sec)		Weight		Capacity (in litres)	
	To open	To close	Kg.	Lb.	To open	To close
A2T	0.13	0.13	1.3	2.76	0.123	0.158
A2ST	0.20	0.20	1.5	3.31	0.123	-

Cycle time without resistant torque at 6 bar. Dimensions in mm.
To calculate the consumption, multiply the above figures by the real working pressure.



DOUBLE-ACTING TORQUES

A2T	Air Pressure							
	Bar	3.0	4.0	5.0	5.5	6.0	7.0	8.0
PSI	43.5	58.0	72.5	79.8	87.0	101.5	116.0	
Nm	7.9	11.3	14.1	15.5	17.0	19.8	22.9	
Lb.in	69.9	100	124.8	137.2	150.5	175.2	202.7	

SPRING RETURN TORQUES

A2ST	Unit	Spring Torques	Air Torque At Indicated Pressure														
			3 (bar)		4 (bar)		5 (bar)		5.5 (bar)		6 (bar)		7 (bar)		8 (bar)		
			43.5 (psi)	58 (psi)	72.5 (psi)	79.8 (psi)	87 (psi)	101.5 (psi)	116 (psi)	Initial	End	Initial	End	Initial	End	Initial	End
N	Nm	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End	Initial	End
	Lb.in	9.70	6.10	-	-	-	-	8.00	4.40	9.40	5.80	10.9	7.30	13.7	10.1	16.8	13.2
4 ¹	Nm	86.1	53.8	-	-	-	-	71.0	38.7	83.4	51.1	96.6	64.3	121.4	89.1	148.9	116.6
	Lb.in	8.80	5.50	-	-	5.80	2.50	8.60	5.30	10.0	6.70	11.5	8.20	14.3	11.0	17.4	14.1
3	Nm	78.1	48.4	-	-	51.6	21.9	76.4	46.7	88.8	59.1	102.0	72.4	126.8	97.2	154.3	124.6
	Lb.in	6.70	4.30	3.6	1.20	7.00	4.60	9.80	7.40	11.2	8.80	12.7	10.3	15.5	13.1	-	-
2	Nm	59.0	37.7	32.2	10.7	62.3	40.8	87.1	65.6	99.5	78.0	112.8	91.3	137.5	116.0	-	-
	Lb.in	4.30	2.40	5.50	3.60	8.90	7.00	11.7	9.80	13.1	11.2	14.6	12.7	-	-	-	-
1	Nm	37.7	21.5	48.4	32.2	78.5	62.3	103.3	87.1	115.7	99.5	129.0	112.8	-	-	-	-
	Lb.in																

N: Number of springs per side | ¹Standard number of springs

ACCESSORIES KITS



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



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
4/2 Way for double-acting and spring return.
Enclosure IP65
Option for: 110VAC, 50HZ
Option for: 3/2, 5/2 Way

For more information please contact your local representative.



ATEX mechanical limit switch.
for use in hazardous locations zone 2, temp range (-20°C to 60°C) (-4°F to 140°F)
ATEX Inductive limit switch is available as an option)



Electric actuator
designed to control valve with 90° rotation 15W, IP66.
Option 1: 90-240V, 50/60HZ, 90-350V DC
Option 2: 15-30V, 50/60HZ, 12-48V DC

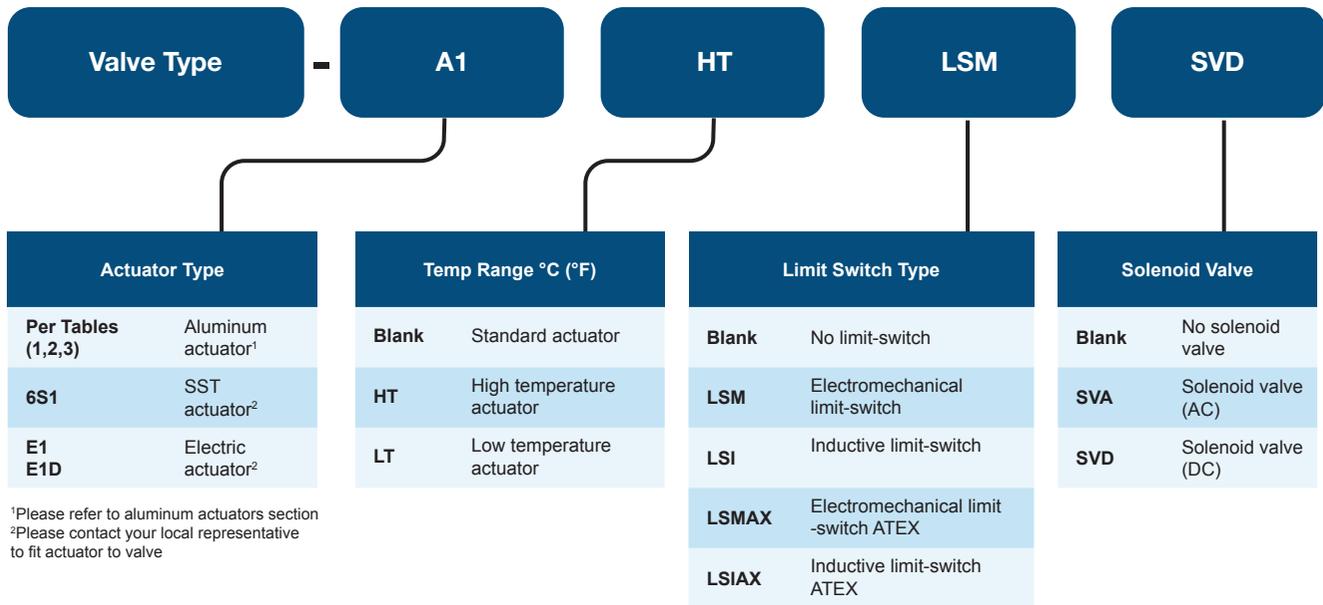


Stainless steel 90 degree pneumatic actuator
operating pressure max. 8 bar (116 PSI). Standard working temperature -32°C to 90°C (-25.6°F to 194°F)



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

ORDERING INFORMATION FOR FACTORY ASSEMBLED ACCESSORIES



Mounting Kits for 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
A4/A4S	Z-LS-MK-A4

- ... If special cleaning is required, LF / OC will be added at the end, and will refer to the valve only.
For example: **H - 800S-SS - L - 1/4 - A1-LSM - 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 - A1-LSM-SVD**
- ... For double-mounting actuators, please contact your local representative.

ORDERING INFORMATION						
Aluminum actuators for filed assembly	Electro mechanical limit switch	Inductive limit switch (contains one inductive limit switch)	Electro-Mechanical /Inductive Limit Switch ATEX	SST Actuator ³	Electric actuator*	Solenoid Valve 4/2 Way Option: 5/2, 3/2 way
See Tables (1,2,3)	Z - LSM	Z - LSI	Z - LSMAX Z - LSIAX	Z - 6S1	Z - E1A (AC) Z - E1D (DC)	Z - SVA (AC) Z - SVD (DC)

³For Stainless Steel Actuator or Electric Actuator please contact your local representative.

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.