



# Actuation and Controls Price List

# ACT-0718

Effective: July 2, 2018  
Supersedes: ACT-0318

*Suggested list prices are subject to change without notification. Visit our Website for the most up-to-date product information.*

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Visit our website for complete product details, information and terms and conditions of sale.

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## MC SERIES PNEUMATIC RACK & PINION ACTUATORS

DOUBLE ACTING MODEL	LIST PRICE	SPRING RETURN MODEL	LIST PRICE	HIGH TEMP SEAL ADDER (1,2)	REVERSE ROTATION ADDER (2)
MC20	\$ 331.26	MC20S5	\$ 420.98	\$ 134.24	\$ 79.31
MC34	\$ 396.60	MC34S5	\$ 461.66	\$ 134.24	\$ 79.31
MC48	\$ 477.76	MC48S5	\$ 597.94	\$ 144.39	\$ 79.31
MC75	\$ 561.11	MC75S5	\$ 673.20	\$ 152.54	\$ 79.31
MC105	\$ 678.31	MC105S5	\$ 809.47	\$ 162.70	\$ 79.31
MC157	\$ 813.54	MC157S5	\$ 964.02	\$ 174.90	\$ 79.31
MC237	\$ 1,061.39	MC237S5	\$ 1,218.24	\$ 201.34	\$ 79.31
MC331	\$ 1,192.10	MC331S5	\$ 1,409.41	\$ 201.34	\$ 79.31
MC406	\$ 1,586.47	MC406S5	\$ 1,901.60	\$ 423.04	\$ 79.31
MC633	\$ 1,983.09	MC633S5	\$ 2,302.26	\$ 423.04	\$ 79.31
MC1009	\$ 2,618.58	MC1009S5	\$ 3,087.31	\$ 463.68	\$ 130.16
MC1260	\$ 3,305.90	MC1260S5	\$ 3,902.83	\$ 660.98	\$ 130.16
MC1831	\$ 7,001.69	MC1831S5	\$ 9,453.10	\$ 663.02	\$ 130.16
MC2928	\$ 7,798.26	MC2928S5	\$ 11,395.36	\$ 697.60	\$ 130.16

(1) High temperature seals are good for continuous temperatures from 250° F to 300° F

(2) The list adder prices are to be added before the discounts are applied

## MC SERIES SOLENOID VALVES FOR 4 WAY AND 3 WAY REQUIREMENTS

MODEL	FITS ACTUATOR MODELS	NEMA RATING	STANDARD VOLTAGE	LIST PRICE	SPEED CONTROLS
SC8551A1MS†	MC10-MC2928	4	120 AC, 60Hz	\$ 235.48	\$ 58.34
EF8551A1MS†	MC10-MC2928	4/7/9	120 AC, 60Hz	\$ 509.31	\$ 58.34
SC8551A1MS220VAC†	MC10-MC2928	4	220 AC, 60Hz	\$ 310.98	\$ 58.34
SC8551A1MS24VDC†	MC10-MC2928	4	24 DC	\$ 310.98	\$ 58.34
SC8551A1MS24VAC†	MC10-MC2928	4	24 AC, 60Hz	\$ 310.98	\$ 58.34
SC8551A1MS12VDC†	MC10-MC2928	4	12 DC	\$ 310.98	\$ 58.34
290413-001 Plug				\$ 21.36	

†Requires Plug 290413-001

## MANUAL GEAR WITH DECLUTCHABLE OVERRIDES

FITS D/A ACTUATOR MODEL NO.	MODEL	LIST PRICE
MC75 - MC105	UTM28	\$ 440.92
MC157 - MC331	UTZM49	\$ 771.60
MC406 - MC633	UTZM65	\$ 970.02
MC1009 - M1260	UTZM89	\$ 1,873.90
MC1831 - MC2928	CONSULT	POA

NOTE: List price does not include mounting bracket, please contact your customer service representative for bracket cost.

## MC PNEUMATIC ACTUATORS SERVICE PARTS

FITS ACTUATOR MODEL NO.	SPRING CARTRIDGE PART NO. <sup>1</sup>		STANDARD TEMPERATURE REPAIR KIT PART NO. <sup>2</sup>		HIGH TEMPERATURE REPAIR KIT PART NO. <sup>3</sup>	
	PART NO.	LIST PRICE	PART NO.	LIST PRICE	PART NO.	LIST PRICE
MC20	MC20SC	\$ 20.06	MC20RK	\$ 55.26	MC20RKHT	\$ 99.21
MC34	MC34SC	\$ 20.06	MC34RK	\$ 82.89	MC34RKHT	\$ 162.59
MC48	MC48SC	\$ 20.06	MC48RK	\$ 84.62	MC48RKHT	\$ 179.12
MC75	MC75SC	\$ 26.23	MC75RK	\$ 105.68	MC75RKHT	\$ 190.15
MC105	MC105SC	\$ 26.23	MC105RK	\$ 110.53	MC105RKHT	\$ 217.70
MC157	MC157SC	\$ 33.95	MC157RK	\$ 124.34	MC157RKHT	\$ 242.50
MC237	MC237SC	\$ 35.49	MC237RK	\$ 131.25	MC237RKHT	\$ 259.04
MC331	MC331SC	\$ 41.67	MC331RK	\$ 138.15	MC331RKHT	\$ 314.15
MC406	MC406SC	\$ 55.56	MC406RK	\$ 200.32	MC406RKHT	\$ 358.25
MC633	MC633SC	\$ 69.44	MC633RK	\$ 255.59	MC633RKHT	\$ 440.92
MC1009	MC1009SC	\$ 78.70	MC1009RK	\$ 302.22	MC1009RKHT	\$ 501.54
MC1260	MC1260SC	\$ 84.88	MC1260RK	\$ 359.20	MC1260RKHT	\$ 600.75
MC1831	MC1831SC	\$ 253.09	MC1831RK	\$ 644.15	MC1831RKHT	\$ 1,173.94
MC2928	MC2928SC	\$ 253.09	MC2928RK	\$ 644.15	MC2928RKHT	\$ 1,173.94

<sup>1</sup>Prices are for each spring cartridge. One spring cartridge is required for each end. (For example an MC20S5 will require a total of 10 spring cartridges, that is 5 each per end).

<sup>2</sup>Standard temp repair kit includes: All Buna O-rings, piston bearings, skates, pinion bearing and guides.

<sup>3</sup>High temp repair kit includes: All Viton O-rings, piston bearings, skates, pinion bearing and guides.

## LIMIT SWITCHES

### MC LIMIT SWITCH

MODEL	DESCRIPTION	BEACON	LIST
AAEAA21110	NEMA 4,4X,2SPDT SWITCHES (MECHANICAL) (MC1 - MC47)	YES	\$ 364.07
AAEAA21130	NEMA 4,4X,2SPDT SWITCHES (MECHANICAL) (MC58 - MC372)	YES	\$ 364.07

Requires mountin bracket, see below for part number and list price.

### WESTLOCK

MODEL	DESCRIPTION	BEACON	LIST
2004N	NEMA 4,4X,2SPDT SWITCHES (MECHANICAL)	YES	\$ 441.34
2007XN	NEMA 4,4X,7 AND 9 2 SPDT SWITCHES	YES	\$ 557.24
2004FC	NEMA 4,4X,2SPDT SWITCHES (MECHANICAL)	NO	\$ 372.19
<b>ADDERS</b>	<b>ADD SUFFIX TO ABOVE NUMBERS FOR ADDERS</b>		
-RS	ANALOG OUTPUT (1000OHM) ADD TO LIST		\$ 335.58
-CS	ANALOG OUTPUT (4-20 MA) ADD TO LIST		\$ 858.27

Requires mountin bracket, see below for part number and list price.

### WESTLOCK MAGNUM STYLE LIMIT SWITCHES

MODEL	DESCRIPTION	BEACON	LIST
*9044N	NEMA 4,4X,2SPDT MAGNUM SWITCHES	YES	\$ 1,226.37
*9479N	NEMA 4,4X,7,9 2SPDT MAGNUM SWITCHES	YES	\$ 1,706.35
<b>ADDERS</b>	<b>ADD SUFFIX TO ABOVE NUMBERS FOR ADDERS</b>		
-RS	ANALOG OUTPUT (1000OHM) ADD TO LIST		\$ 683.38
-CS	ANALOG OUTPUT (4-20 MA) ADD TO LIST		\$ 1,208.08

NOTE: If NAMUR shaft is not required, delete the "N" from the part number.

### NAMUR MOUNTING BRACKETS FOR WESTLOCK & ASCO LIMIT SWITCHES

MODEL	DESCRIPTION	LIST
M31N	MOUNTING BRACKET FOR LIMIT SWITCH MC1-MC29	\$ 61.81
M2366N	MOUNTING BRACKET FOR LIMIT SWITCH MC47-MC295	\$ 61.81

\* Indicates non-stock items, please contact your Customer Service Representative for lead-times.

## POSITIONERS

### VAC POSITIONERS FOR MC SERIES

MODEL	DESCRIPTION	LIST PRICE
V200ED190AC1	4-20 MADC Electro Pneumatic Positioner with Flat Cover Indicator	\$ 1,475.13
V200PD190AC1	3-15 PSI Pneumatic Positioner with Flat Cover Indicator	\$ 889.13

### GAUGES

MODEL	DESCRIPTION	LIST PRICE
9690242*	Guage, 0 - 160 PSI (P77413)	\$ 75.79
9690217*	Guage, 0 - 30 PSI (P530156)	\$ 75.87

\*Note:

For 4-20 MADC, 2 Pieces P/N 9690242 is required

For 3-15 PSI, 2 Pieces P/N 9690252 and 1 Piece P/N 9690217 is required.

### NAMUR MOUNTING BRACKETS

MODEL	DESCRIPTION	LIST PRICE
350001	MOUNTING BRACKET FOR V Series Positioners (MC10-MC157)	\$ 65.06
350002	MOUNTING BRACKET FOR PMV POSIT. (MC237-MC2928)	\$ 102.85

## MC SERIES ELECTRIC ACTUATORS

### REVERSE ROTATION ELECTRIC ACTUATORS NEMA 4 RATED FOR BALL VALVES

MODEL	LIST PRICE 120 VAC	CYCLE TIME / TORQUE INCH LBS.	LIST PRICE 230VAC, 24VAC, 12VDC
MCR100I	\$ 563.35	2.5 SEC / 100	\$ 632.97
MCR200I	\$ 648.78	5 SEC / 200	\$ 799.28
MCR300I	\$ 837.93	5 SEC / 300	\$ 1,008.77
MCR675I	\$ 1,413.48	15 SEC / 675	\$ 1,561.96
MCR1000I	\$ 1,702.30	15 SEC / 1000	\$ 1,873.12

NOTE: MCR200I, MCR300I, AND MCR675I have ISO Mounting Dimensions with U.S. threads.  
Standard one 1/2" conduit - all units wired for two light indication.

### REVERSIBLE ROTATION ELECTRIC ACTUATORS WITH BRAKES FOR BUTTERFLY VALVES

MODEL	LIST PRICE 120 VAC	CYCLE TIME / TORQUE INCH LBS.	LIST PRICE 230VAC, 24VAC, 12VDC
MCRB200I	\$ 1,086.06	5 SEC / 200	\$ 1,238.60
MCRB300I	\$ 1,358.56	5 SEC / 300	\$ 1,527.37
MCRB675I†	\$ 1,928.05	15 SEC / 675	\$ 2,100.91
MCRB1000I†	\$ 2,267.68	15 SEC / 1000	\$ 2,438.50

†Manual override is standard on these models. Optional on the MCRB200I and MRB300I

### OPTIONAL EQUIPMENT

OPTION	CODE ADDER	MODELS AVAILABLE ON	LIST PRICE ADDER
ONE SWITCH	1S	All	\$ 87.44
TWO SWITCHES	2S	Excludes MCR100I	\$ 172.87
HEATER THERMOSTAT	HT	All	\$ 256.25
VALVE POSITIONER	VP	Excludes MCR100I	\$ 1,572.13
1 K POT	1	Excludes MCR100I	\$ 325.39
POSITION TRANSMITTER	TX	Excludes MCR100I	\$ 734.20
SPEED CONTROL	SC	Excludes MCR100I	\$ 577.60
THREE POSITION	3P	All	\$ 288.81
FLAT SHAFT MANUAL OVERRIDE	MO	Standard on Models MCR100I, 200I & 300I	\$ 237.93
NEMA 4/7 HOUSING	N7	Excludes MCR100I	\$ 394.55

### SPRING RETURN ELECTRIC ACTUATORS

MODEL	LIST PRICE 120 VAC	CYCLE TIME / CLOSE TIME	TORQUE INCH LBS.
MCSRE200	3,459.48	5 Seconds / 3-4 Seconds	200
MCSRE400	5,452.62	12 Seconds / 3-4 Seconds	300
MCSRE600	7,476.23	12 Seconds / 3-4 Seconds	600
MCSRE1000	14,738.90	12 Seconds / 3-4 Seconds	1000

Notes MCSRE Series Spring Return Actuators:

- Non-stock product, please contact your Customer Service Representative for lead-times.
- Manual overrides are not available

**CAUTION:** Electrical operation of actuators must be through a single pole control switch to isolate the unused motor winding.

## LB SERIES ELECTRIC ACTUATOR

### Intermittent Service: Quarter-turn Reversible with 30% Duty Cycle 1PH/60Hz/115VAC Motor, CSA Approved NEMA 4 Enclosure, ISO Mount

MODEL	LIST PRICE	TORQUE LB/IN	SPEED SEC/90°	DESCRIPTION
OA3-5	\$ 1,395.19	300	5	OA Models come complete with self-locking worm gear, two SPDT travel limit switches, plus two auxiliary SPDT switches, internal terminal strip, mechanical dial position indicator and manual override w/handwheel and compartment heater standard.  <b>Note: The OA6-5 has been replaced by the OA8-5</b>
OA8-5	\$ 2,198.51	720	5	
OA8-10	\$ 2,436.49	720	10	
OA8-25	\$ 2,436.49	720	25	
OA8-50	\$ 2,436.49	720	50	
OA15-15	\$ 2,831.07	1350	15	
OA15-25	\$ 2,831.07	1350	25	
AT25-15	\$ 4,423.52	2250	15	AT and BS Models complete with all features described in OA Models plus two auxiliary SPDT switches, two SPDT mechanical torque limit switches, control compartment space heater, and declutchable manual override w/handwheel and motor lockout switch.  <b>Note: Model # AT80-25 has been discontinued</b>
AT25-25	\$ 4,423.52	2250	25	
AT25-50	\$ 4,423.52	2250	50	
AT50-25*	\$ 5,436.32	4500	25	
AT100-24*	\$ 6,942.56	10000	24	
AT200-58	\$ 7,713.97	22000	58	AT and BS Models are complete with all features described for OA Models plus two auxiliary SPDT switches, two mechanical torque limit switches, control compartment space heater, and declutchable manual override w/handwheel and motor lockout switch.
AT400-105	\$ 10,690.04	35403	105	

### Class III Modulating Service: Quarter-turn Reversible with 50% Duty Cycle 1PH/60Hz/115VAC Motor Single 1000 Ohm-1/2% Linerity-4 Watt Potentiometer and GAM Electronic Positioner to accept a 4-20 MADC Input Signal for Continuous modulating Service. CSA Approved, NEMA 4 Enclosure, ISO Mount

MODEL	LIST PRICE	TORQUE BREAK	SPEED SEC/90°	DESCRIPTION
OA8MG-25	\$ 3,269.43	720	25	OA Models come complete with self-locking worm gear output drive, adjustable mechanical position stops, two SPDT travel limit switches, plus two SPDT auxiliary switches, internal terminal strip, mechanical dial position indicator and manual override w/handwheel and compartment heater.
OA8MG-50	\$ 3,269.43	720	50	
OA15MG-25	\$ 3,901.97	1350	25	
AT25MG-25	\$ 5,937.17	2250	25	AT and BS Models come complete with all features described for OA Models plus two auxiliary SPDT stitches, two mechanical torque limit switches, control compartment space heater, and declutchable manual override w/handwheel and motor lockout switch.
AT50MG-25	\$ 6,949.00	4500	25	
AT100M-24	\$ 10,423.18	8851	24	

### Spring Return Failsafe Electric NEMA 4/6 Enclosure, CSA Approved, ISO Mount

MODEL	LIST PRICE	TORQUE BREAK (INCH LB, RUN)	SPEED SEC/90°	DESCRIPTION
FQ4	\$ 9,776.47	360	28/7	All units power open and power close. Spring closes at loss of power. Manual override is standard except on model FQ4/8. Position indication, travel limit switches, mechanical position stops, NEMA 4/4X and NEMA 6/6P housings are standard. Modulating is optional.
FQ8	\$ 10,661.17	720	28/6	
FQ12	\$ 13,323.38	1070	78/10	
FQ18	\$ 15,145.67	1600	78/15	
FQ30	\$ 27,795.89	2660	98/18	
FQZ50	\$ 35,530.42	4425	98/27	FQZ50 is available in 220/440 3 Phase only.

LB Series actuators are non-stock items. Please contact your Customer Service Representative for lead-times.

For integral local controls and modulating spring return models, please contact your Customer Service Representative.

**CAUTION:** Electrical operation of actuators must be through a single pole control switch to isolate the unused motor winding.

## LB SERIES ACCESSORIES

DESCRIPTION	OA	AT	BT	SRA6	SR12	NOTES
<b>3 PHASE MOTOR OPTIONS</b>	534.89	534.89	534.89	642.67	642.67	# 4
<b>CONTROL COMPARTMENT OPTIONS</b>						
SPACE HEATER	STD	STD	STD	STD	STD	# 7
TWO AUX. SPDT POSITION SWITCHES	162.70	STD	STD	STD	STD	# 8
FOR 6 TOTAL SPDT POSITON SWITCH	383.61	573.84	813.41	1,153.49	1,634.55	# 8
<b>STANDARD FEEDBACK POTENTIOMETER</b>						
SINGLE -100ohm	443.38	626.40	626.40	626.40	626.40	# 9
DUAL - 1000ohm	1,006.71	1,006.71	1,006.71	1,006.71	1,006.71	# 9
<b>PRECISION FEEDBACK POTENTIOMETER</b>						
SINGLE -1000ohm	650.83	650.83	650.83	923.34	1,307.75	# 9,13
SINGLE MYLAR - 1000ohm	1,201.98	1,201.98	1,201.98	1,700.24	2,408.02	# 9
DUAL - 1000ohm	1,622.98	1,622.98	1,622.98	2,302.26	3,260.16	# 9
RELAY FOR 2 WIRE CONTROL	233.87	290.82	290.82	412.87	583.72	# 10
RELAY FOR MAINTAINED TORQUE						
SWITCH OPERATION	N/A	1,311.81	1,311.81	1,311.81	1,311.81	# 11,13
<b>CONTROL COMPONENT OPTIONS</b>						
TAM POSITION TRANSMITTER						
W/1000 ohm POT	1,498.91	1,498.91	1,498.91	1,498.91	1,498.91	#12

### **LB SERIES NOTES:**

**All LB Series actuator accessories are non-stock; please contact your Customer Service Representative for lead-times.**

- 1) Torque as stated is both starting and runing output based on a plus or minus % variation.
- 2) Speed as stated is nominal at the rated actuator torque. Actual operating times may vary depending on the actuator torque.
- 3) Available on all models and all speeds, 25 seconds or more. Supplied with Class F motor installation.
- 4) When ordering, be sure to state motor voltage as 220 or 440 and control voltage 1ph/115VAC or 1ph/ 220VAC. When actuator is supplied with a control compartment heater, it will be supplied with same control voltage.
- 5) Suitable for modulating service and is available for use with 25 second/0° or greater (slower) speed of operation only. Caution: Motor (actuator) is supplied with 50% less torque than standard 30% duty cycles.
- 6) Supplied in same voltage as 1ph motors or in stated control voltage for 3ph motors, series wiring is standard. This is applicable to OA Models only and is supplied as standard on all other models.
- 7) Two auxillary SPDT switches supplied with indivudually adjustable cams and fully wired to terminal position. This option applicable to OA Models only and is supplied as standard on all other models.
- 8) Maximum number of position switches, any model, is a total of 4.
- 9) Potentiometers supplid are: 1000ohm - 1/2% Linearity - 4 Watt. Other values are available at additional cost. Please contact your Customer Service Representative for additional information.
- 10) Supplied as a SPDT Relay, for 2 wire control of a 2 position actuator or to isolate control voltage. (Other than 3ph). State relay coil voltage and either normally CW (close) or COW (open) position when ordering.
- 11) Supplied as 2 SPDT relays, to conver standard momentary operation torque switches to maintained operation with over torque light indication. Not available on OA Models.
- 12) An electronic positioner transmitter mounted and wired inside the actuator, which provides a 4 to 20 MADC VDC linear signal proportional to the actuators output drive position. TAM supply voltage is 7 to 30 VDC.
- 13) These optional accessories and/or functions are included, in addition to all standard features, in actuator prices for modulating service.



## MOUNTING BRACKETS AND LABOR CHARGES

### BUTTERFLY VALVES\*

SIZE	M & C SERIES LIST PRICE	HP SERIES LIST PRICE	LABOR
2"	\$ 168.82	\$ 179.99	\$ 63.05
2 1/2"	\$ 168.82	\$ 179.99	\$ 63.05
3"	\$ 168.82	\$ 179.99	\$ 63.05
4"	\$ 168.82	\$ 179.99	\$ 63.05
5"	\$ 168.82	\$ 179.99	\$ 63.05
6"	\$ 168.82	\$ 179.99	\$ 63.05
8"	\$ 225.00	\$ 304.70	\$ 69.14
10"	\$ 225.00	\$ 304.70	\$ 69.14
12"	\$ 225.00	\$ 304.70	\$ 69.14
14"	\$ 464.12	\$ 464.12	\$ 73.20
16"	\$ 464.12	\$ 464.12	\$ 73.20
18"	POA	\$ 464.12	\$ 85.44
20"	POA	\$ 464.12	\$ 85.44
24"	POA	\$ 464.12	\$ 85.44
30" & ABOVE	POA	\$ 464.12	POA

\*Carbon steel brackets are standard for butterfly valves, stainless steel brackets are available, please contact your Customer Service Representative for pricing and lead-times.

### BALL VALVES

SIZE	CARBON STEEL LIST PRICE	STAINLESS STEEL LIST PRICE	LABOR
1/4" - 1 1/2"	\$ 107.78	\$ 230.14	\$ 38.65
2"	\$ 119.98	\$ 230.14	\$ 38.65
2 1/2"	\$ 255.83	\$ 401.14	\$ 42.71
3"	\$ 255.83	\$ 401.14	\$ 42.71
4"	\$ 284.13	\$ 448.70	\$ 42.71
6"	\$ 284.13	\$ 448.70	\$ 56.93
8"	POA	POA	\$ 56.93
10"	POA	POA	\$ 73.20
12"	POA	POA	\$ 75.25
14" & ABOVE	POA	POA	POA

### TEE LINK ASSEMBLY†

SIZE	LIST PRICE
2" - 3"	412.87
4" - 5"	441.34
6" - 8"	545.06
10" - 12"	758.61
14" - 16"	1,051.47
18" - 20"	1,458.25
24" - 30"	1,602.63
36" - 40"	1,818.21

†When ordering tee-link, an arrangement number must be listed on order. Please contact your Customer Service Representative for a copy of the various numbered arrangements.