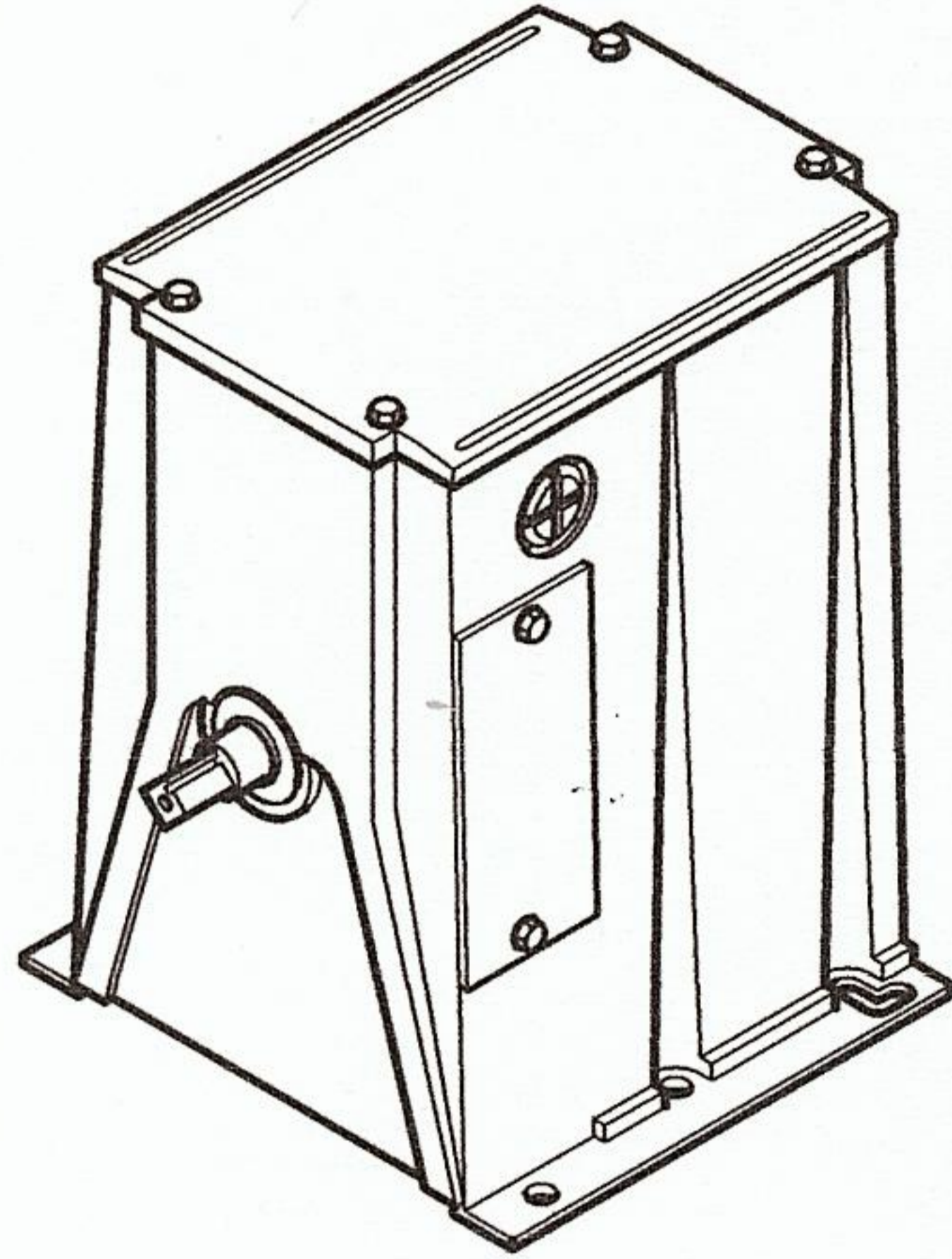


MM/MMR Replacement Cross Reference



To replace MM and MMR series of actuators the following information is required:

1. Part number of actuator
2. Part number of control module inside the actuator.
3. The application either damper or valve. If the application is valve, need to get part number of valve from brass tag around the valve.
4. If actuator is spring return, what direction does it spring return (viewing end that linkage is attached) or is linkage attached to power or auxiliary end of actuator.
5. Part numbers of any accessories.

Replacement example:

To be replaced: MM-500, valve application, MMC-420
VB-9213 2" valve, linkage attached load end

Replacement: MP-361, CP-9302, AV-392

Note: This cross reference shows the closest replacement.
There are alternative replacements available.

Damper Actuator Selection

Actuator to be Replaced			Replacement Actuator	Requires AM-321	Requires AM-363	Required Damper Linkage
Part Number	Spring Return Direction as view linkage end	Linkage attached to actuator				
MM-400	No spring	Either End	MP-381	A	B	AM-161
MM-400-002	No spring	Either End	MP-381	Yes	B	
MM-500	CW	Auxiliary End	MP-361	A	C	
MM-500	CCW	Load End	MP-371	A	C	
MM-500-002	CW	Auxiliary End	MP-361	Yes	C	
MM-500-02	CCW	Load End	MP-371	Yes	C	
MMR-400	NSR	Either End	MP-381	A	B	
MMR-400-002	NSR	Either End	MP-381	Yes	B	
MMR-500	CW	Auxiliary End	MP-361	A	C	
MMR-500	CCW	Load End	MP-371	A	C	
MMR-500-002	CW	Auxiliary End	MP-361	Yes	C	
MMR-500-02	CCW	Load End	MP-371	Yes	C	

A. AM-321 required if old unit had AM-242, 2 step switch kit

B. AM-363 required if old unit required a AM-232 weather resistant kit. All NEMA 4 rated products have AM-232 installed.

C. If old unit required a AM-232 weather resistant cover, there is no recommended replacement.

Control Module Replacement

MMC-90	MMC-401	MMC-420	MMC-421	MMC-468	MMC-501	MMC-8000
AE-504 ^a	No Replacement	CP-9302	CP-9302	None Required	No Replacement	CP-9301

a. Slidewire only

Valve Actuator Selection

Actuator to be Replaced			Replacement Actuator	Requires AM-321	Requires AM-363	Required Valve Linkage				
Part Number	Spring Return Direction as view linkage end	Linkage attached to actuator				VB-7XXX	VB-9XXX	VB-9XXX	VB-9XXX *	VB-9323
						1/2 to 2"	1/2 to 1-1/4"	1-1/2 & 2"	2-1/2 to 4"	2-1/2 & 3"
MM-400	No spring	Either End	MP-381	A	B	AV-393	AV-393	AV-394	AV-396	AV-330
MM-400-002	No spring	Either End	MP-381	Yes	B	AV-393	AV-393	AV-394	AV-396	AV-330
MM-500	CW	Auxiliary End	MP-371	A	C	AV-391	AV-391	AV-392	AV-395	AV-329
MM-500	CCW	Load End	MP-361	A	C	AV-391	AV-391	AV-392	AV-395	AV-329
MM-500-002	CW	Auxiliary End	MP-371	Yes	C	AV-391	AV-391	AV-392	AV-395	AV-329
MM-500-02	CCW	Load End	MP-361	Yes	C	AV-391	AV-391	AV-392	AV-395	AV-329
MMR-400	NSR	Either End	MP-381	A	B	AV-393	AV-393	AV-394	AV-396	AV-330
MMR-400-002	NSR	Either End	MP-381	Yes	B	AV-393	AV-393	AV-394	AV-396	AV-330
MMR-500	CW	Auxiliary End	MP-371	A	C	AV-391	AV-391	AV-392	AV-395	AV-329
MMR-500	CCW	Load End	MP-361	A	C	AV-391	AV-391	AV-392	AV-395	AV-329
MMR-500-002	CW	Auxiliary End	MP-371	Yes	C	AV-391	AV-391	AV-392	AV-395	AV-329
MMR-500-02	CCW	Load End	MP-361	Yes	C	AV-391	AV-391	AV-392	AV-395	AV-329

A. AM-321 required if old unit had AM-242, 2 step switch kit

B. AM-363 required if old unit required a AM-232 weather resistant kit

C. If old unit required a AM-232 weather resistant cover, there is no recommended replacement. All NEMA 4 rated products have AM-232 installed.

Actuator Selection for Competitive Valves

Actuator to be Replaced			Replacement Actuator	Requires AM-321	Requires AM-363	Required Valve Linkage		
Part Number	Spring Return Direction as view linkage end	Linkage attached to actuator				Honeywell		Johnson
						V5011	V5013	
MM-400	No spring	Either End	MP-381	A	B	AV-650	AV-650	Consult Factory
MM-400-002	No spring	Either End	MP-381	Yes	B	AV-650	AV-650	Consult Factory
MM-500	CW	Auxiliary End	MP-371	A	C	AV-650	AV-650	Consult Factory
MM-500	CCW	Load End	MP-361	A	C	AV-650	AV-650	Consult Factory
MM-500-002	CW	Auxiliary End	MP-371	Yes	C	AV-650	AV-650	Consult Factory
MM-500-02	CCW	Load End	MP-361	Yes	C	AV-650	AV-650	Consult Factory
MMR-400	NSR	Either End	MP-381	A	B	AV-650	AV-650	Consult Factory
MMR-400-002	NSR	Either End	MP-381	Yes	B	AV-650	AV-650	Consult Factory
MMR-500	CW	Auxiliary End	MP-371	A	C	AV-650	AV-650	Consult Factory
MMR-500	CCW	Load End	MP-361	A	C	AV-650	AV-650	Consult Factory
MMR-500-002	CW	Auxiliary End	MP-371	Yes	C	AV-650	AV-650	Consult Factory
MMR-500-02	CCW	Load End	MP-361	Yes	C	AV-650	AV-650	Consult Factory