



# HAZARDOUS LOCATIONS

## EXPLOSION PROOF ACTUATOR ENCLOSURE (FOR VALVES AND DAMPERS)

### MA8, MC6/7, MP6/7 SERIES

#### DESCRIPTION

The **Schneider Electric MA8, MC6/7, and MP6/7 Series explosion proof actuator enclosures** are designed for installation in a hazardous environment. Each of these actuators are factory assembled to order. The enclosure is a cast aluminum housing and bolted cover with explosion proof ratings for Class I, Division 1, Groups C, D and Class II, Division 1, Groups E, F, G. They are for use with any damper with appropriate linkage and with Schneider Electric globe valve sizes 1/2" through 2", two- or three-way.



Valve



#### FEATURES

- *Class I, Division 1, Groups C, D; Class II, Division 1, Groups E, F, G*
- *Full range of approved actuators*
- *Approved for valves or dampers*
- *Stem position indicator*

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#### SPECIFICATIONS

<b>Supply Voltage</b>	24VAC or 12VAC (See ordering)	<b>Step Position</b>	Red Dial Pointer
<b>Control Signal</b>	(See ordering)	<b>Dimensions</b>	(not to exceed) 9"H x 8.25"W x 11"D
<b>Conduit Opening</b>	Two, 3/4" NPT	<b>Actuators (only)</b>	(22.9 x 21 x 28 cm)
<b>Assembly</b>	Factory only	<b>Drive Shaft</b>	1/2" dia (1.27 cm), 0.93" L (2.38 cm)
<b>Materials of Construction</b>	Cast aluminum, bolted cover enclosure	<b>Weight</b>	Varies per model
<b>Area</b>	Explosionproof Class I, Division 1, Groups C, D; Class II, Division 1, Groups E, F, G	<b>Approvals</b>	UL (actuator only), CSA (assembly)
		<b>Warranty</b>	2 years

#### ORDERING INFORMATION

##### DAMPER ACTUATORS

Model Number	Description	Timing (no load, seconds)	Power	Torque in-lb (N-m)
MA8-418-500	Explosion proof 2-wire, 2-position, spring return CCW end switch	20	120 VAC, 108 VA	60 (6.8)
MC7-4311	Explosion proof 3 wire 2-position, non-spring return	36	240 VAC, 96 VA	220 (25)
MP6-381	Explosion proof proportional /floating, non-spring return	130	24 VAC, 52.8 VA	220 (25)
MP6-361	Explosion proof proportional /floating, spring return CW	90	24 VAC, 60 VA	50 (5.6)
MP6-371	Explosion proof proportional /floating, spring return CCW	90	24 VAC, 60 VA	50 (5.6)
MP6-421	Explosion proof proportional /floating, non-spring return	25	120 VAC, 78 VA	60 (6.8)

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ORDERING INFORMATION						
Valve Body	Actuator	Linkage	Size (NPT)	Power	Flow (Cv)	Close-off (psid)
<b>2-POSITION, FLOATING, 2-WAY VALVES, NON-SPRING RETURN</b>						
VB-7213-0-4-02	MP6-381 (No Drive Kit Required)	AV-293	1/2"	24 VAC, 52.8 VA	1.3	250
VB-7213-0-4-04			1/2"		4.4	250
VB-7213-0-4-06			3/4"		7.5	250
VB-7213-0-4-08			1"		14	150
VB-7213-0-4-09			1-1/4"		20	90
VB-7213-0-4-10			1-1/2"		28	60
VB-7213-0-4-11			2"		40	35
<b>PROPORTIONAL 2-WAY VALVES, NON-SPRING RETURN – Requires separate CPX explosion proof actuator drive kit</b>						
VB-7213-0-4-02	MP6-381 +CPX Drive Kit Required (See Accessories)	AV-293	1/2"	24 VAC, 52.8 VA	1.3	250
VB-7213-0-4-04			1/2"		4.4	250
VB-7213-0-4-06			3/4"		7.5	250
VB-7213-0-4-08			1"		14	150
VB-7213-0-4-09			1-1/4"		20	90
VB-7213-0-4-10			1-1/2"		28	60
VB-7213-0-4-11			2"		40	35
<b>2-POSITION, 2-WAY VALVES, SPRING RETURN – Can be linked spring return open or spring return closed - specify at time of order.</b>						
VB-7213-0-4-02	MA8-318 (No Drive Kit Required)	AV-291	1/2"	24 VAC, 92 VA	1.3	250
VB-7213-0-4-04			1/2"		4.4	250
VB-7213-0-4-06			3/4"		7.5	250
VB-7213-0-4-08			1"		14	150
VB-7213-0-4-09			1-1/4"		20	90
VB-7213-0-4-10			1-1/2"		28	60
VB-7213-0-4-11			2"		40	35
<b>FLOATING 2-WAY VALVES, SPRING RETURN – Can be linked spring return open or spring return closed - specify at time of order.</b>						
VB-7213-0-4-02	MP6-361 (No Drive Kit Required)	AV-291	1/2"	24 VAC, 60 VA	1.3	250
VB-7213-0-4-04			1/2"		4.4	250
VB-7213-0-4-06			3/4"		7.5	250
VB-7213-0-4-08			1"		14	150
VB-7213-0-4-09			1-1/4"		20	90
VB-7213-0-4-10			1-1/2"		28	60
VB-7213-0-4-11			2"		40	35
<b>PROPORTIONAL 2-WAY VALVES, SPRING RETURN – Can be linked spring return open or spring return closed - specify at time of order. Requires separate CPX explosion proof actuator drive kit</b>						
VB-7213-0-4-02	MP6-361 + CPX Drive Kit Required (See Accessories)	AV-291	1/2"	24 VAC, 60 VA	1.3	250
VB-7213-0-4-04			1/2"		4.4	250
VB-7213-0-4-06			3/4"		7.5	250
VB-7213-0-4-08			1"		14	150
VB-7213-0-4-09			1-1/4"		20	90
VB-7213-0-4-10			1-1/2"		28	60
VB-7213-0-4-11			2"		40	35



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### ORDERING INFORMATION

Valve Body	Actuator	Linkage	Size (NPT)	Power	Flow (Cv)	Close-off (psid)
<b>2-POSITION / FLOATING 3-WAY VALVES, NON-SPRING RETURN</b>						
VB-7313-0-4-02	MP6-381 (No Drive Kit Required)	AV-293	1/2"	24 VAC, 52.8 VA	1.3	250
VB-7313-0-4-04			1/2"		4.4	250
VB-7313-0-4-06			3/4"		7.5	200
VB-7313-0-4-08			1"		14	150
VB-7313-0-4-09			1-1/4"		20	90
VB-7313-0-4-10			1-1/2"		28	60
VB-7313-0-4-11			2"		40	35
<b>PROPORTIONAL 3-WAY VALVES, NON-SPRING RETURN – Requires separate CPX explosion proof actuator drive kit</b>						
VB-7313-0-4-02	MP6-381 + CPX Drive Kit Required (See Accessories)	AV-293	1/2"	24 VAC, 52.8 VA	1.3	250
VB-7313-0-4-04			1/2"		4.4	250
VB-7313-0-4-06			3/4"		7.5	250
VB-7313-0-4-08			1"		14	150
VB-7313-0-4-09			1-1/4"		20	90
VB-7313-0-4-10			1-1/2"		28	60
VB-7313-0-4-11			2"		40	35
<b>2-POSITION 3-WAY VALVES, SPRING RETURN – Can be linked spring return open or spring return closed - specify at time of order.</b>						
VB-7313-0-4-02	MA8-318 (No Drive Kit Required)	AV-291	1/2"	24 VAC, 92 VA	1.3	250
VB-7313-0-4-04			1/2"		4.4	250
VB-7313-0-4-06			3/4"		7.5	250
VB-7313-0-4-08			1"		14	150
VB-7313-0-4-09			1-1/4"		20	90
VB-7313-0-4-10			1-1/2"		28	60
VB-7313-0-4-11			2"		40	35
<b>FLOATING 3-WAY VALVES, SPRING RETURN – Can be linked spring return open or spring return closed - specify at time of order.</b>						
VB-7313-0-4-02	MP6-361 (No Drive Kit Required)	AV-291	1/2"	24 VAC, 60 VA	1.3	250
VB-7313-0-4-04			1/2"		4.4	250
VB-7313-0-4-06			3/4"		7.5	250
VB-7313-0-4-08			1"		14	150
VB-7313-0-4-09			1-1/4"		20	90
VB-7313-0-4-10			1-1/2"		28	60
VB-7313-0-4-11			2"		40	35
<b>PROPORTIONAL 3-WAY VALVES, SPRING RETURN – Can be linked spring return open or spring return closed - specify at time of order. Requires separate CPX explosion proof actuator drive kit</b>						
VB-7313-0-4-02	MP6-361 + CPX Drive Kit Required (See Accessories)	AV-291	1/2"	24 VAC, 60 VA	1.3	250
VB-7313-0-4-04			1/2"		4.4	250
VB-7313-0-4-06			3/4"		7.5	250
VB-7313-0-4-08			1"		14	150
VB-7313-0-4-09			1-1/4"		20	90
VB-7313-0-4-10			1-1/2"		28	60
VB-7313-0-4-11			2"		40	35

### ORDERING INFORMATION

#### RELATED PRODUCTS

**AM-116**  
**AM-123**  
**PR-48**

Splined crank arm for 1/2" (1.27cm) shaft (damper linkage required)  
Ball joint connector (damper linkage required)  
5/16" dia., 48" (1.2m) length push rod

#### ACCESSORIES

**CPX9301**  
**CPX9301456**  
**CPX9302**

6 to 9 VDC (fixed) actuator drive kit for hazardous locations  
0 to 10 VDC (fixed) actuator drive kit for hazardous locations  
4 to 20 mA (fixed) actuator drive kit for hazardous locations