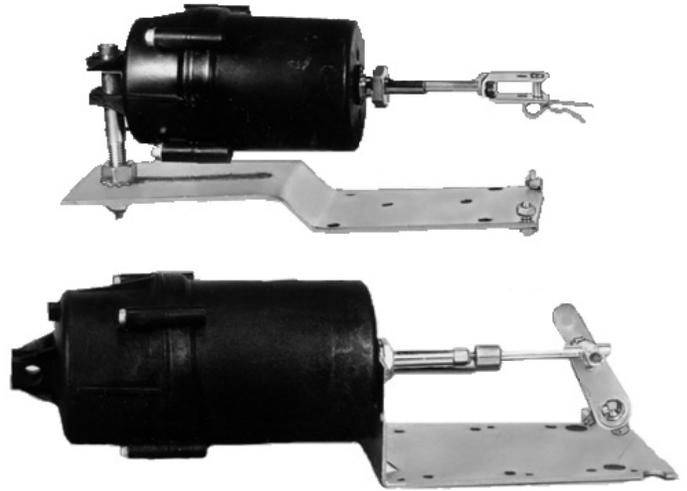


### **Description**

The KMC MCP-1231, and MCP-1241 Hesitation Stroke Pneumatic Damper Actuators are designed to position automatic air dampers in unit ventilators and air handling units.

The action of the MCP-1231 and 1241 is in response to an air pressure signal from a control device. An increase in pressure causes the actuator to stroke to a preset position, hesitate for a preset pressure range, then complete the full stroke. The stroke before and after hesitation is field adjustable.

Actuators may be combined with other control devices for performing various control cycles. Special mounting arrangements are available for adapting to various unit ventilators.



### **Features**

- ◆ Adjustable hesitation start and stop points
- ◆ Easy integration with other control devices
- ◆ Flexible mounting options

### **Models**

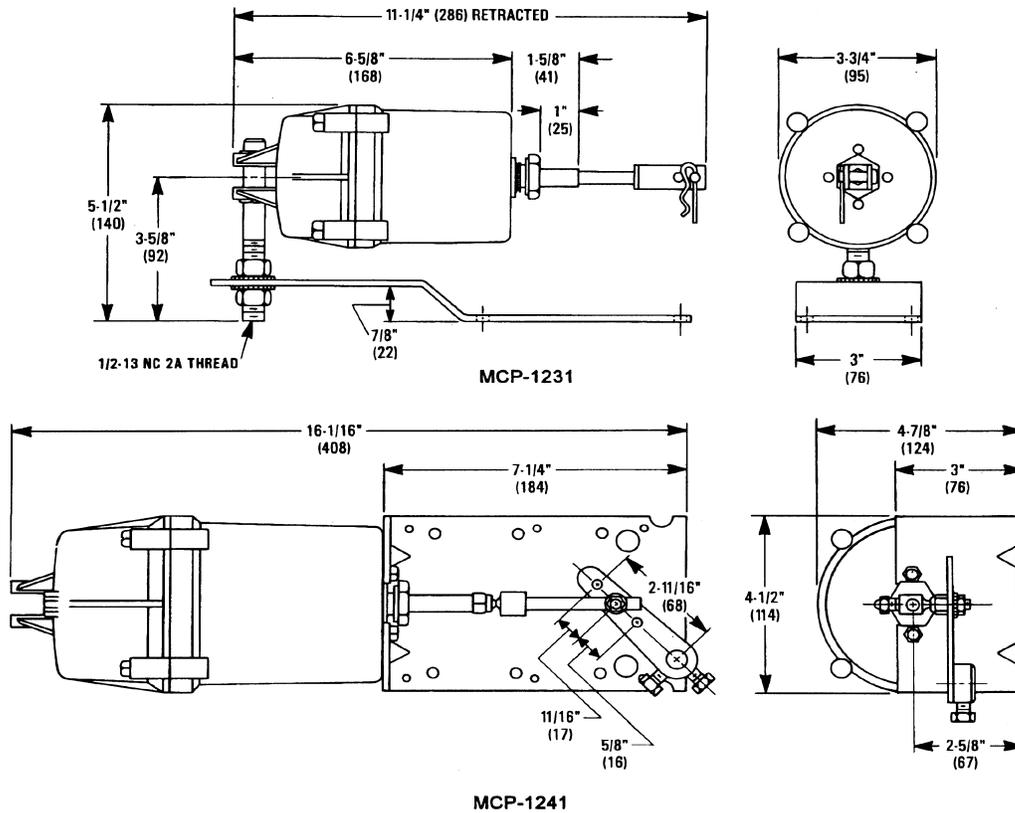
MCP-1231-0211	2" stroke; right angle mount
MCP-1241-0211	3" stroke; right angle mount
MCP-1231-0520	2" stroke; post mount
MCP-1241-0520	3" stroke; post mount

### **Accessories/Replacement Parts**

VTD--0803	1/4-20 x 5/16" actuator ball-joint
VTD-0804	1/4-20 crankarm ball-joint
VTD-1100	1/4" clevis pin for post mounted actuators
VTD-1205	Cotter pin for post mounted actuators
VTD-1414	3-hole crankarm for 3/8" damper shaft
VTD-1415	3-hole crankarm for 1/2" damper shaft
VTD-1630	5/16" push rod for right angle actuators
VTD-9423	Replacement diaphragm; MCP-1231
VTD-9424	Replacement diaphragm; MCP-1241

## Details

All dimensions in inches (mm).



## Specifications

### Effective Area

MCP-1231	7 sq. in. (45 sq. cm)
MCP-1241	11 sq. in. (71 sq. cm)

### Stroke

MCP-1231	2" (51 mm)
MCP-1241	3" (76 mm)

### Supply Pressure

0 to 20 psig (138 kPa)  
 Operating at 30 psig (207 kPa) maximum  
 See note under *Temperature Limits*

### Supply Connection

3/16" (5 mm) fitting for 1/4" (6 mm) OD polyethylene tubing

### Material

Body	Black glass-filled nylon
Diaphragm	Neoprene
Piston	Glass-filled nylon
Shaft	CRS with nickel plating
Bearings	Glass-filled nylon

### Weight

MCP-1231	3.25 lbs (1.47 kg)
MCP-1241	4.8 lbs. (2.18 kg)

### Adjustments

Hesitation Start	4 psig (28 kPa), stroke adjustable 20 to 70% prior to 4 psig.
Hesitation Finish	8 psig (5 kPa), stroke adjustable 80 to 30% after 8 psig.

### Temperature Limits

**NOTE:** If application requires operation near maximum temperature AND maximum pressure, install a tubing restraint at the actuator connection.

Operating	-20° to 180° F (-29° to 82° C)
Shipping	-40° to 180° F (-40° to 82° C)

### KMC Controls, Inc.

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