

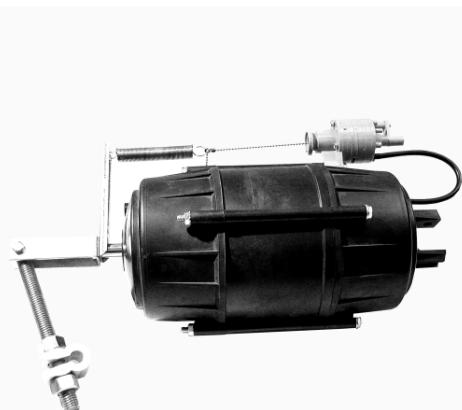


## MCP-1160 Series 6" Pneumatic Damper Actuators

### Description

The KMC MCP-1160 Series 6" Pneumatic Damper Actuators are designed to position automatic air dampers in pneumatically controlled systems. The MCP-1160 Series features a universal mounting bracket for use with dampers, butterfly valves and variable fan inlet vanes.

The MCP-1160 has an 8 to 13 psi main spring for ample return power. The linkage is adjustable from 60° to 120° of the damper rotation at full stroke. The units may be used for modulating or two-position applications with or without an adjustable start-point positive positioner.



MCP-1160-1111 Shown

### Features

- ◆ Modulating or two position applications
- ◆ Universal mounting bracket and adjustable linkage
- ◆ Ample return power from 8 to 13 psi main spring

### Accessories/Replacement Parts

CMC-1001	Non-metallic positive positioner
CMC-1002	Metal positive positioner
VTD-1500	Positioner feedback arm
VTD-2252	5 psi span spring for CMC-1001
VTD-2256	5 psi span spring for CMC-1002
VTD-2262	10 psi span spring for CMC-1001
VTD-2266	10 psi span spring for CMC-1002
VTD-2272	3 psi span spring for CMC-1001
VTD-2282	7 psi span spring for CMC-1001
VTD-9426	Replacement actuator diaphragm

### Models

Use the chart below to choose the MCP-1160 model which fits your application.

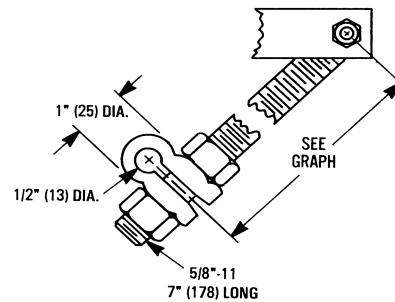
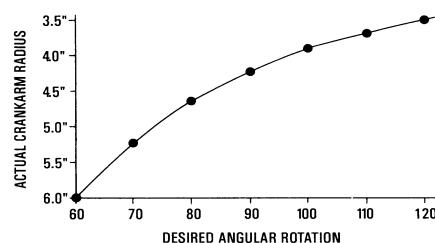
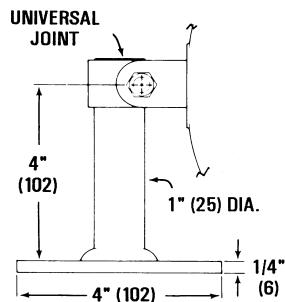
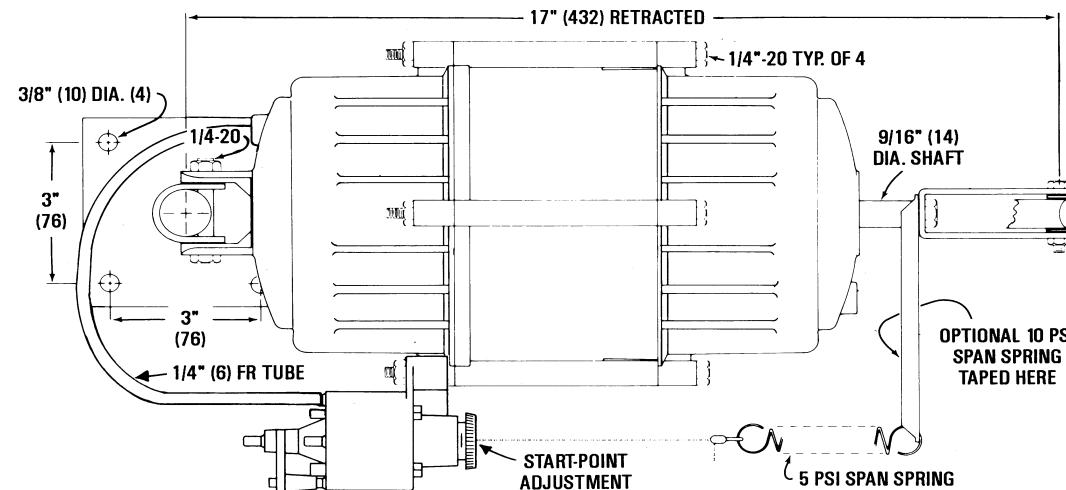
Mounting Bracket	Bracket Hardware Only	Crankarm Linkage	Clevis Linkage Only	Plastic Positioner	Metal Positioner	
MCP-1160-1020			●		●	●
MCP-1160-1101	●				●	●
MCP-1160-1102		●	●		●	●
MCP-1160-1103		●	●		●	●
MCP-1160-1104		●	●		●	●
MCP-1160-1111	●	●		●	●	●
MCP-1160-1114	●	●		●	●	●
MCP-1160-5020		●	●			
MCP-1160-5101	●		●			
MCP-1160-5102		●			●	
MCP-1160-5103		●			●	
MCP-1160-5104		●			●	
MCP-1160-5111	●		●		●	
MCP-1160-5114	●		●		●	
MCP-1160-9111	●		●		●	
MCP-1160-9114	●		●		●	●

Damper Type	Up to 1000 FPM	1000 to 2500 FPM	2500 to 3000 FPM
Opposed blades without seals	3 in-lb / sq.-ft	4.5 in-lb / sq.-ft	6 in-lb / sq.-ft
Parallel blades without seals	4 in-lb / sq.-ft	6 in-lb / sq.-ft	8 in-lb / sq.-ft
Opposed blades with seals	5 in-lb / sq.-ft	7.5 in-lb / sq.-ft	10 in-lb / sq.-ft
Parallel blades with seals	7 in-lb / sq.-ft	10.5 in-lb / sq.-ft	14 in-lb / sq.-ft

Specifications and design subject to change without notice.

## Details

All dimensions in inches (mm).



## Specifications

**Effective Area** 24.8 sq. inches (160 sq. cm)

**Stroke** 6" (152 mm)

**Supply Pressure** 0 to 20 psig (138 kPa)  
operating 30 psig (207 kPa) maximum  
*See note under Temperature Limits*

**Spring Ranges** 8–13 psi (55–90 kPa)

**Retracted/Extended Torque**  
(Based on 0 & 20 psi applied)

576/504 in. lbs. (65/57 N•m)  
@ 90°

**Supply Connection** 3/16" (5 mm) fitting for 1/4"  
(6 mm) O.D. polyethylene  
tubing

### Material

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

### Damper Rating @ 1000 fpm

Gradual 75 sq. ft (7 sq. m)

Two position 90 sq. ft. (8.36 sq. m)

**Weight** 9.75 lbs. (4.4 kg)

### 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)

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