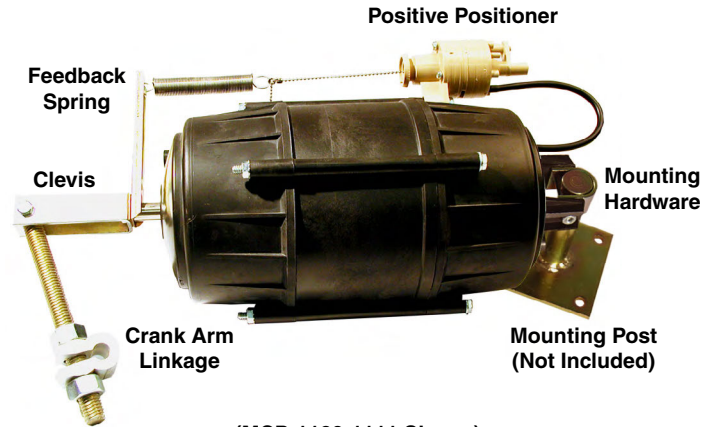


Description

These pneumatic damper actuators have an actuation range of six inches of linear movement. They are designed to position automatic air dampers in pneumatically controlled systems. They feature 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)



Models

Model Number	Mounting	Actuation		Feedback			
	Hardware Included (Bolt, Nut, Sleeve, Strap)	Crankarm Linkage (Complete)	Clevis Only	Positive Positioner (CMC-1001) Included	5 psi Feedback Spring	7 psi Feedback Spring	10 psi Feedback Spring
MCP-11601020	✓		✓	✓	✓		✓
MCP-11601102			✓	✓	✓		✓
MCP-11601103	✓			✓	✓		✓
MCP-11601104	✓		✓	✓	✓	✓	
MCP-11601111	✓	✓		✓	✓		✓
MCP-11605020	✓		✓				
MCP-11605103	✓						
MCP-11605104	✓		✓		✓	✓	
MCP-11605111	✓	✓					

Features

- ◆ Modulating or two position applications
- ◆ Ample return power from 8 to 13 psi main spring

Accessories/Replacement Parts

CMC-1001	Non-metallic positive positioner
HLO-1001	Replacement clevis
HLO-1002	Replacement crank arm assembly
HMO-1001	Replacement rear strap for rear swivel mounting
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-5002	Entire front end linkage (6" x 6")
VTD-5003	Nut, bolt, and sleeve for rear mounting
VTD-9426	Replacement actuator diaphragm

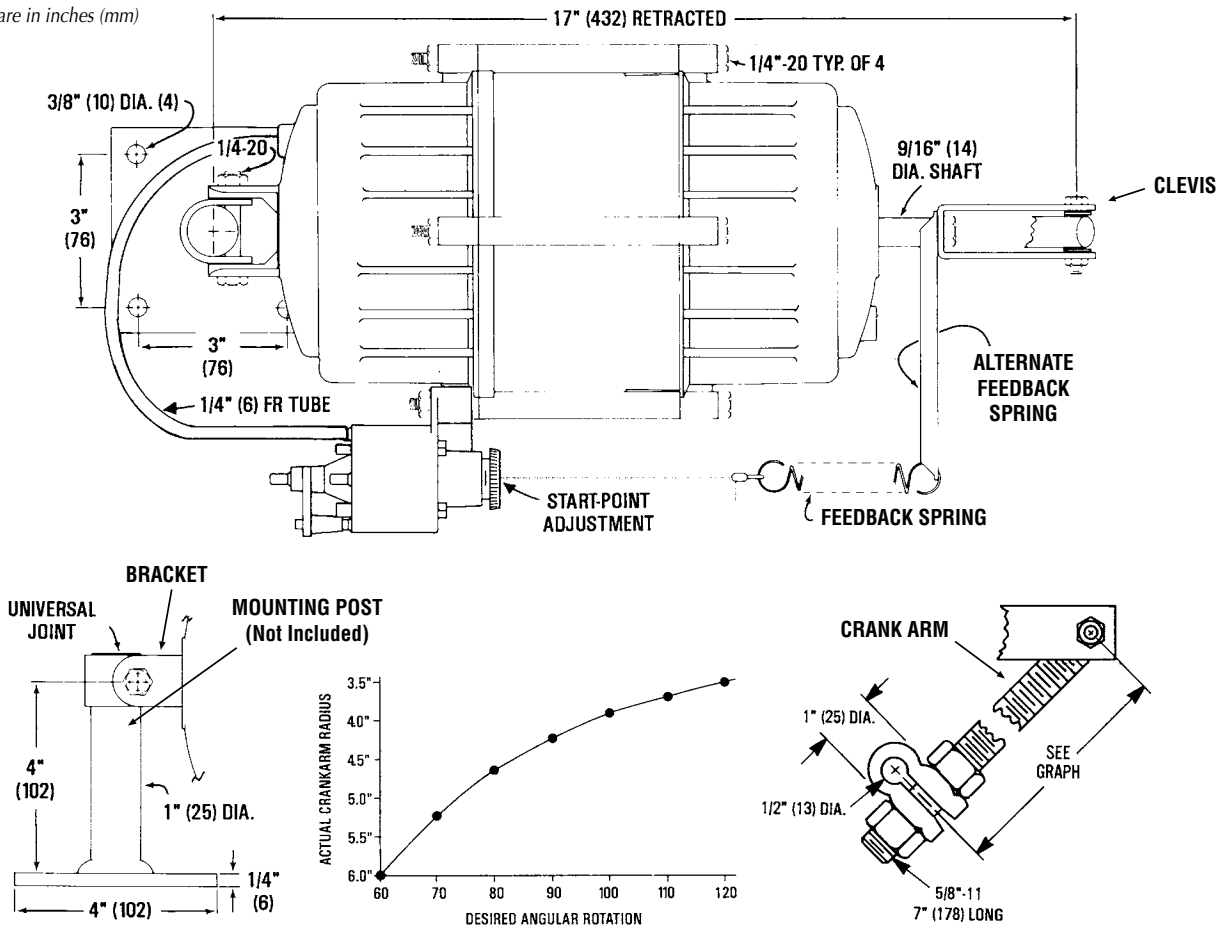
▲ CAUTION

Pneumatic devices must be supplied with clean, dry control air. Any other medium (e.g., oil or moisture contamination) will cause the device to fail.

*NOTE: Although the CMC-1002 metal positive positioner has been discontinued, related replacement positioner parts remain available for now.

Details

All dimension are in inches (mm)



Specifications

Effective Area	24.8 sq. inches (160 sq. cm)
Stroke	6" (152 mm)
Spring Ranges	8 to 13 psi (55 to 90 kPa)
Retracted/Extended Torque	576/504 in-lbs. (65/57 N•m) @ 90° (based on 0 and 20 psi applied)
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 lb. (4.4 kg)

Supply Pressure*	0 to 20 psi (138 kPa) operating 30 psi (207 kPa) maximum (see the Note under the Temperature Limits section)
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Temperature Limits (Actuator Only)*

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

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

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