

Description

These 6" pneumatic damper actuators, with glass-filled nylon bodies, 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.

NOTE: For 6-inch pneumatic actuators with bodies made of die-cast aluminum, see the MCP-5160 series.

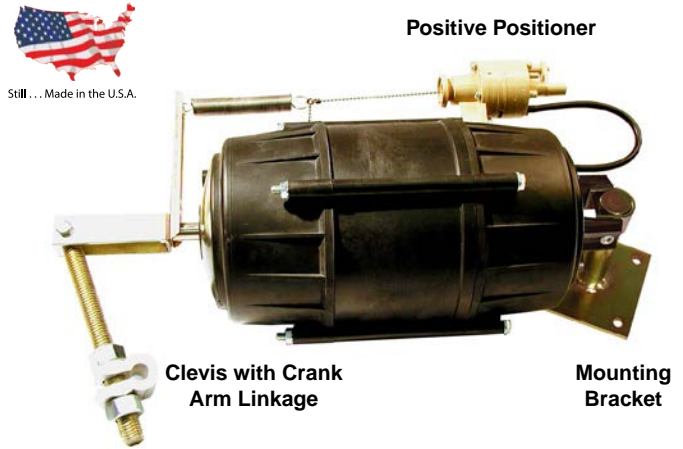
Models

	Plastic Positioner	Clevis Linkage Only	Crankarm Linkage Only	Bracket Hardware Only	Mounting Bracket
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	●				

NOTE: "Bracket Hardware Only" option includes a bolt, nut, sleeve, and strap. "Mounting Bracket" option also includes a mounting post (flange).

⚠ 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.



(MCP-1160-1111 Shown)

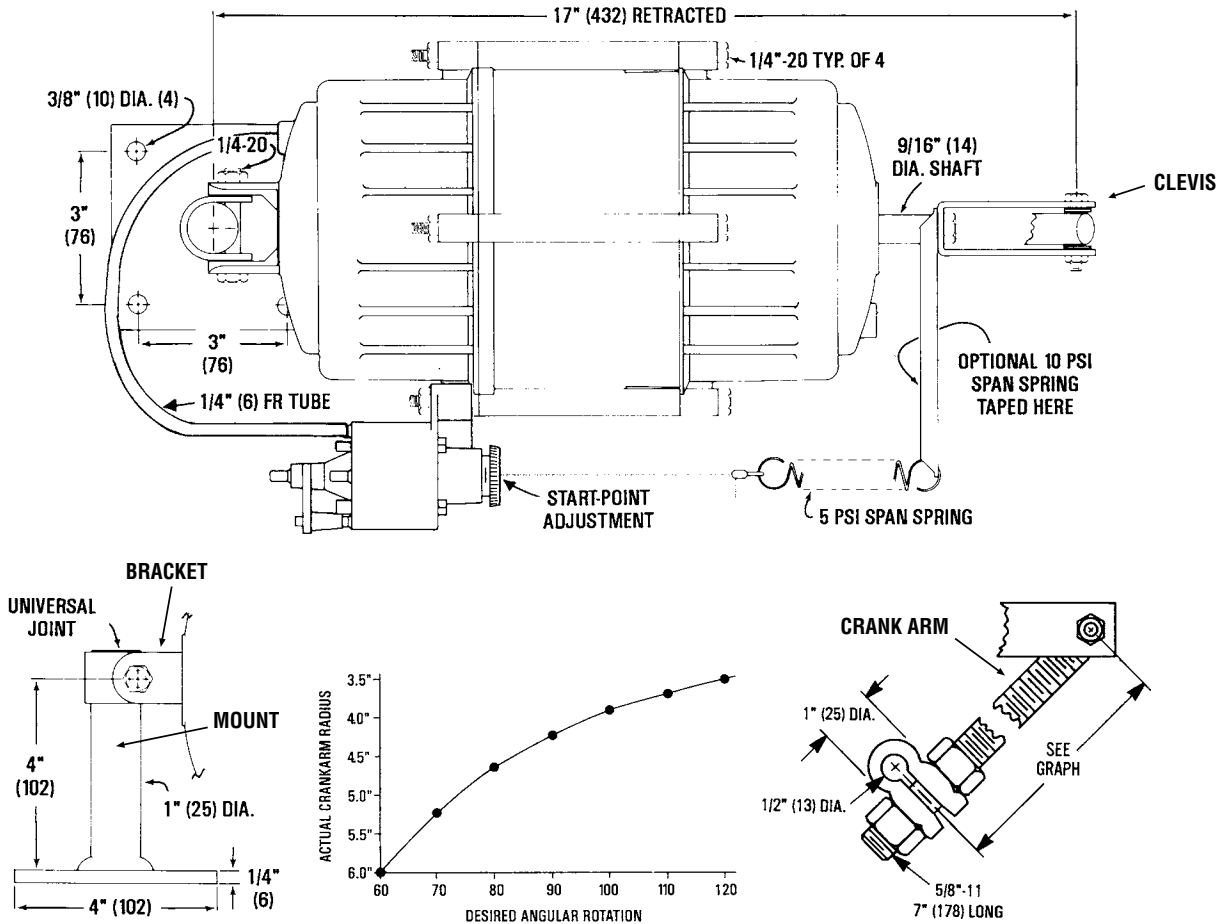
Features

- ◆ 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
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

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



Specifications

Effective Area	24.8 sq. inches (160 sq. cm)
Stroke	6" (152 mm)
Supply Pressure	0 to 20 psi (138 kPa) operating 30 psi (207 kPa) maximum (see note under Temperature Limits)
Spring Ranges	8–13 psi (55–90 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)
Temperature Limits	
Operating	-20° to 180° F (-29° to 82° C)
Shipping	-40° to 180° F (-40° to 82° C)

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

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