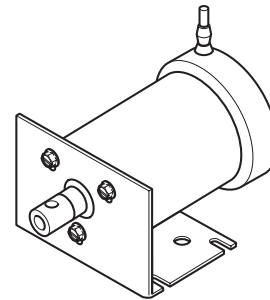


Damper Actuators, Proportional

For proportional pneumatic actuator with 3 in.² (19 cm²) effective area used to control small dampers and mixing boxes.

Features:

- All-plastic construction.
- Meets UL-465 requirements for air plenum mounting.
- Ideal for VAV terminal unit control.



Model Chart										
Model No.	Nominal Operating Range	Stroke	Starting Pressure Non-Adjustable	Maximum Force ^a				Nominal Torque ^b Proportional Control ^a		
				Return Stroke	Power Stroke			15 psi Supply Dual Press. System	15 psi Supply Single Press. System ^c	20 psi Supply Single or Dual Press. System ^c
				Based on 1.5 psi Pressure to Actuator	15 psi Supply Dual Press. System	15 psi Supply Single Press. System ^c	20 psi Supply Single or Dual Press. System ^c			
psi	in.	psi	lb	lb	lb	lb	lb-in.	lb-in.	lb-in.	
MK-12100	3 to 8	2	3	4.5	16.5	21	36	4.5	4.5	4.5
MK-12110	5 to 10		5	10.5	10.5	15	30			
MK-12120	8 to 13		8	19.5	1.5	6	21	1.5		
MK-12140	3 to 13		3	4.5						

^a Force and torques based on factory set stroke, starting pressure, and 90° rotation of driven damper shaft.

^b Nominal torque for actuators is based on 1.5 psi (10 kPa) pressure change at the actuator.

^c Adjust pressure reducing valve so that listed pressures are available at the actuator.

Specifications	
Construction	
Housing	Rynite [®] , Zytel [®] , and Ultem [®] UL-94-5V flame rated plastic material to meet UL-465 requirements for air plenum mounting.
Diaphragm	Beaded molded neoprene.
Stroke	2 in. (50.8 mm).
Nominal Damper Area	Actuator sizing should be done in accordance with damper manufacturer's specifications.
Spring	Retracts actuator shaft on loss of air pressure.
Maximum air pressure	30 psig (207 kPa).
Ambient temperature limits	
Shipping	-40 to 180°F (-40 to 82°C).
Operating	-20 to 150°F (-29 to 66°C).
Air connections	Barbed for 1/4 in. and 5/32 in. O.D. plastic tube [for runs up to 20 ft. (6 m)].
Mounting	In any position. Mounting bracket and ball joint connector for 5/16 in. diameter push rod assembled to actuator.
Dimensions	5-5/8 H x 3-9/16 W x 3-5/16 D in. (143 x 90 x 84 mm).

Accessories

Model No.	Description
AM-111	Crank arm for 5/16 in. diameter damper shaft.
AM-112	Crank arm for 3/8 in. diameter damper shaft.
AM-113	Crank arm for 1/2 in. diameter damper shaft.
AM-115	Crank arm for 7/16 in. diameter damper shaft.
AM-122	Linkage connector straight type.
AM-123	Damper clip.
AM-125	5/16 x 20 in. damper rod.
AM-125-048	5/16 x 48 in. damper rod.
AM-132	Ball joint connector.
AM-161-3	Damper linkage kit (AM-113 crank arm and AM-132 connector).
TOOL-095-1	Pneumatic calibration tool kit.