

Actuator Information



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When ASEPCO designed its actuators, we took great care in making them industry appropriate, operator friendly and yet sturdy enough to withstand some pretty rough treatment. We made sure that our pneumatic actuators are not spring loaded, they all are machined from 304 Stainless Steel and are designed to withstand some dings and drops. All actuators have a position indicating shaft that extends when the valve is open (for visual confirmation of valve position) and contain as few o-rings and seals as possible which require very simple maintenance on an annual basis. Additionally, to prevent any galling we machine all our actuator bodies out of 304 Stainless Steel, our diaphragm shafts out of 316 Stainless Steel and our actuator shafts out of Galltough.

All ASEPCO actuators meet 3A requirements and can withstand operating pressure of 250 psi and operating temperature of 135° C (or 275° F).

ASEPCO ACTUATORS SPARE PARTS LIST

MANUAL ACTUATORS

PART # MAK-100

** Includes O-rings, guide bushing and wiper seal.

(PLEASE SPECIFY WHICH SIZE ACTUATOR OR VALVE YOU HAVE)

PNEUMATIC ACTUATORS

PART# PAK-050

ASEPCO 0.5" Pneumatic Actuators

PART# PAK-100

ASEPCO 1.0" Pneumatic Actuators

PART# PAK-200

ASEPCO 1.5"-2.0" Pneumatic Actuators

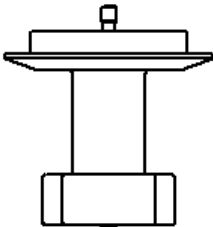
PART # PAK-300

ASEPCO 3.0" Pneumatic Actuators

**Includes O-rings, guide bushings and quad ring

IMPORTANT: O-RINGS SHOULD BE REPLACED ANNUALLY

ASEPCO's MANUAL ACTUATORS



ASEPCO's Manual actuators are powerful and precise machines. They are designed to hold a partially open position indefinitely. Further, they are closed when actuator is merely hand tight (additional torquing of manual actuators may cause damage to the diaphragm).

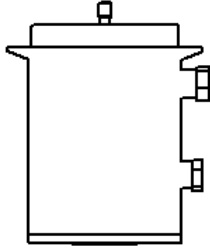
HEIGHT OF ACTUATORS – From top (knob) to clamp face.

0.5"	Manual Actuator	2.435"
	Maximum travel of position indicator	0.220"
1.0"	Manual Actuator	2.875"
	Maximum travel of position indicator	0.305"
1.5"	Manual Actuator	3.901"
	Maximum travel of position indicator	0.562"
2.0"	Manual Actuator	3.901"
	Maximum travel of position indicator	0.562"
3.0"	Manual Actuator	3.901"
	Maximum travel of position indicator	0.860"

CLEARANCES FOR DIAPHRAGM REMOVAL

0.5"	3.41"
1.0"	4.10"
2.0"	5.60"

ASEPCO's PNEUMATIC ACTUATORS



ASEPCO's Pneumatic Actuators are available in either normally closed (spring-to-close or fail-close) or normally open (spring-to-open or fail-open) configurations. They require the following minimum air requirements to open fully. ASEPCO designed it's pneumatic actuator to open when 60 psi for .5" and 80 psi for 1" to 3" air is applied as is standard for most plants. That being said, they will hold up against this same amount of pressure being applied directly on the diaphragm top or in tank pressure; however if greater resistance is needed you can buy a special double spring actuator.

HEIGHT OF ACTUATORS- From top (knob) to clamp face.

0.5"	Pneumatic Actuator	3.192"
	Maximum travel of position indicator	0.220"
1.0"	Pneumatic Actuator	4.371"
	Maximum travel of position indicator	0.305"
1.5"	Pneumatic Actuator	4.721"
	Maximum travel of position indicator	0.562"
2.0"	Pneumatic Actuator	4.721"
	Maximum travel of position indicator	0.562"
3.0"	Pneumatic Actuator	6.265"
	Maximum travel of position indicator	0.780"

CLEARANCES FOR DIAPHRAGM REMOVAL

<u>Pneumatic</u>		<u>Pneumatic w/9920 Switch</u>	
0.5"	4.20"	0.5"	8.45"
1.0"	5.67"	1.0"	10.17"
2.0"	6.45"	2.0"	10.95"

Manual Actuator Diaphragm Change out Instructions

To REMOVE diaphragm from MANUAL Actuator

- 1.) Unclamp & Remove actuator from valve body, turn handle CLOCKWISE until position indicator is FLUSH WITH HANDLE.
- 2.) Place actuator handle-down on flat surface to ensure that POSITION INDICATOR IS FLUSH
- 3.) Turn diaphragm COUNTER-CLOCKWISE to remove

To MOUNT diaphragm and re-assemble with valve body

- 1.) Thread diaphragm onto fully extended shaft
- 2.) Turn diaphragm CLOCKWISE until FINGER TIGHT
- 3.) Turn Handle COUNTER-CLOCKWISE 2 turns to slightly retract diaphragm & shaft; insert diaphragm/actuator assembly into valve body with sanitary clamp; finger tight