

JOMAR ALPHA SERIES OPERATION AND INSTRUCTION MANUAL



INTRODUCTION

JOMAR Type A actuators are quarter-turn devices, simply meaning that the shaft rotates 90°.

JOMAR also offers Type A180 actuators that have 180° rotation.

Our standard stock actuators have a torque range of 73 in/lbs to 388,726 in/lbs, based on 80psig supply air pressure.

This wide torque range, along with standard ISO 5211 and Namur mounting, make Jomar Pneumatic Actuators the choice of professionals worldwide.

MOUNTING ACTUATOR

JOMAR actuators have a female output shaft, which meets DIN33337 and ISO5211, making direct mounting to any square stem valve possible. The output shaft is machined to an eight point star, which, either with or without an adapter can be mounted to any type of quarter turn valve or damper.

The JOMAR actuator can be mounted in any position, even upside down with affecting the operation.

The actuator is normally mounted with it's length parallel with the pipe, for space conscious installations.

Always ensure that the valve or damper is in the correct position, open or closed, before mounting the actuator.

WARNING! NEVER REMOVE OR SERVICE AN ACTUATOR THAT HAS NOT BEEN PROPERLY DE-PRESSURIZED AND VENTED.

STANDARD OPERATION

JOMAR actuators rotate 90°, CCW as viewed from the top, to the open position. The opening rotation occurs when supply air is applied through Port A (left port), into the piston chambers.

This action is true of both double acting and spring return actuators.

In spring return actuators, when supply air pressure is removed, the springs then decompress, forcing the piston in the opposite (CW) direction, thereby closing the valve.

In double acting actuators, supply air must be removed from Port A and applied to Port B (right port), forcing the piston in the opposite (CW) direction, thus closing the valve.

MANUAL OPERATION

JOMAR actuators can be manually operated in the event of supply air pressure failure by using an appropriate wrench on the top portion of the output shaft.

Declutchable manual overrides are also available, please contact Jomar Automation.

WARNING!

NEVER TRY TO MANUALLY OPERATE AN ACTUATOR WITHOUT FIRST VENTING ALL INTERNAL AIR PRESSURE BY REMOVING ALL AIR SUPPLY CONNECTIONS!

WARNING!

SEVERE DAMAGE TO THE ACTUATOR CAN BE CAUSED BY MANUALLY OPERATING THE ACTUATOR WHILE STILL IN THE AUTOMATIC MODE.

LUBRICATION

JOMAR actuators are factory lubricated and should require no further lubrication unless actuator is altered.

The use of clean, dry, air or gas is recommended.

Lubrication of the media is not required, however, it is recommended.

MINIMUM/ MAXIMUM SUPPLY PRESSURE

A minimum of 40 psig and a maximum of 120 psig, is required for normal operation of Spring Return actuators.

Double Acting actuators require a minimum of 15 psig, with a maximum of 120 psig for normal operation.

SUPPLY AIR CONNECTIONS

Remove the factory supplied dust plugs from the actuator.

Double Acting

Air supply lines must be installed to both Ports A and B.

Port A: CCW rotation

Port B: CW rotation

Spring Return

Air supply must be installed to Port A.

Solenoid Valves

Air must be supplied to the valve air inlet port.

If using a JOMAR ASV Series solenoid valve, supply air to the center port.

MAINTENANCE

JOMAR actuators are factory lubricated and require only yearly inspection under normal operating conditions.

STORAGE

When not in use the actuator should be stored in a clean, dry place, and operated a minimum of twice a month. The air ports should be plugged to prevent any contamination.

RECOMMENDED SPARE PARTS

Although the actuator should not require service under normal operating conditions for at least 1 year, replacement part kits consisting of o-rings are available. Please contact JOMAR for pricing.

Spring sets are also available and sold in complete sets only. Please contact JOMAR for pricing.

DISASSEMBLY OF ACTUATORS

WARNING!
DO NOT ATTEMPT TO DISASSEMBLE ANY ACTUATOR WITHOUT FIRST DISCONNECTING ALL AIR AND ELECTRICAL CONNECTIONS.
KEEP FINGERS CLEAR OF ALL MOVING PARTS.

Disassembly or assembly of actuators should only be attempted by trained personnel.

Contact JOMAR before proceeding.

All warranties are void if actuator is disassembled without prior authorization.

TRAVEL STOP ADJUSTMENT.

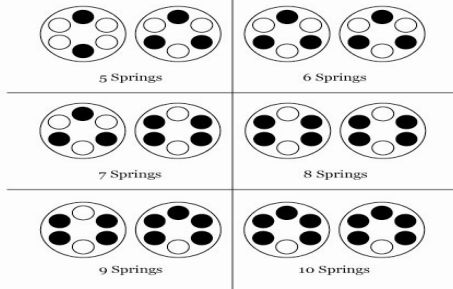
JOMAR actuators have travel stops which can be adjusted **without** disassembling the actuator.

1. Remove lock nut.
2. Adjust travel stop with allen wrench, note that both sides must be adjusted equally.
3. Operate actuator to ensure proper adjustment.

WARNING! KEEP FINGERS CLEAR OF ALL MOVING PARTS

4. Tighten lock nut on both travel stops.

SPRINGS MOUNTING FORM FOR SPRING RETURN ACTUATORS



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