

# Impact

## Pneumatic Spring Assist



The Impact spring assist is a pneumatic device whose purpose is to increase spring closing torque on spring return actuators. This is achieved by diverting air pressure from the inner chamber to the spring chambers so that in combination with the spring force an increase in the total closing torque of the actuator is achieved. Redirecting the air pressure into the spring chamber increases the spring end torque by 50% or more.

The Impact can be utilized directly on site where operating conditions may occur that cause functional disorders or become a safety issue. Some typical examples are given here:

- Actuators that are not achieving their published torque output can have the Impact field mounted to improve their reliability without having to replace them or stop the process.
- In situations where unexpected pressure drops occur, such as at the beginning of a day's work or when additional accessories are added to the system, the Impact will keep the pressure level at its maximum and prevent the actuators from shifting their position.
- In many cases it is possible to substitute a smaller actuator with the Impact and achieve the torque output of a larger actuator.
- The Impact will increase the reliability and safety margin of existing actuators. The additional torque provided to existing actuators extend their life and reduce maintenance.
- The Impact is ideal for critical applications where quick-closing actuators are required.
- The Impact will help "self opening" valves keep their shut-off position.

### IMPACT MODEL NUMBERING

Model Number: **IMPACT-X**

Connection: \_\_\_\_\_

**I** = Imperial

**M** = Metric

### FEATURES

- Increases torque by 50% or more.
- Single unit.
- Increases system reliability.
- No external energy.
- Dynamic reaction.
- NAMUR interface.
- Internal breather block.