

Pneumatic and Hydraulic  
**Actuator Systems**

FOR VALVES AND DAMPERS



*High Integrity Actuation & Controls*



WITHIN VIRTUALLY EVERY PROCESSING INDUSTRY IN THE WORLD

oil power gas marine

# Pneumatic and Hydraulic Actuator Systems

FOR VALVES AND DAMPERS

MATIC manufacture and supply a complete programme of pneumatic and hydraulic actuator systems for the on/off and modulating control of valves and dampers as used in the oil, gas, marine, power and process industries.

Utilising many years of field application experience within the area of valve and damper automation, MATIC actuators are engineered to provide technically advanced solutions conforming to the latest international standards.



## Stainless Steel Actuators

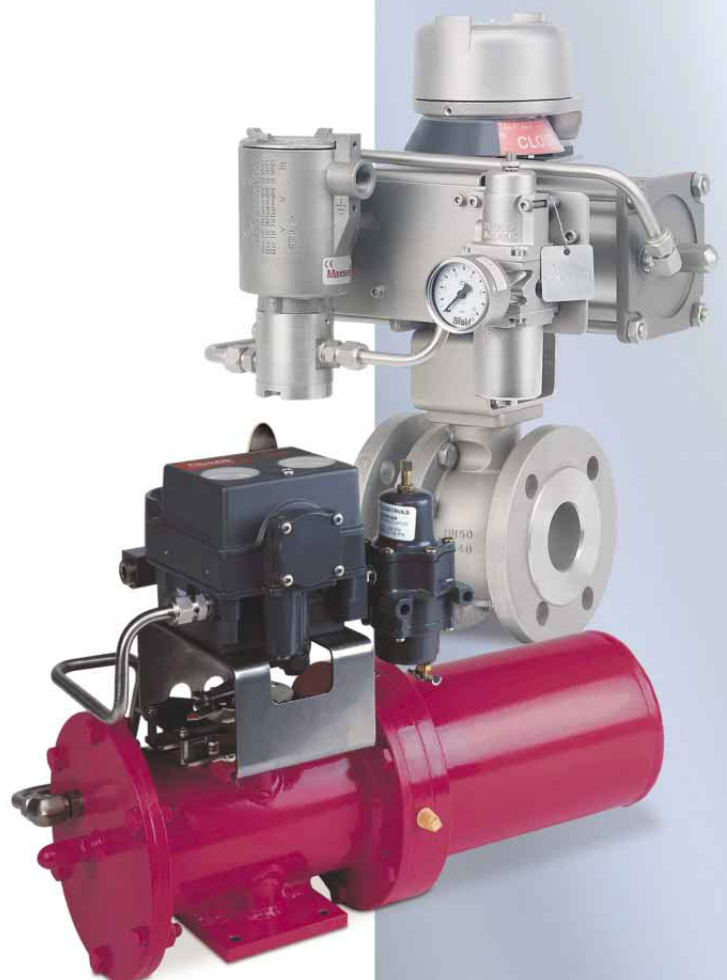
The range of stainless steel actuators are based on the proven rack & pinion design. This design concept provides an economical and reliable solution for the operation of quarter-turn valves (ball, butterfly or plug) and dampers in corrosive applications.

Material	316 Stainless Steel ( <i>Optional – 304 SS</i> )
Function	Double Acting or Spring Return
Supply Medium	Air, Nitrogen, Inert Gas or Water
Supply Pressure	1 to 10 Barg
Torque Range	Up to 2,000 Nm
Temperature Range	-40° to +120° C ( <i>Optional – High Temperature Versions</i> )

## Steel/Ductile Iron Actuators

The range of steel / ductile iron actuators are based on proven design concepts (rack & pinion, scotch yoke or cam) and are well suited for installation in severe working environments. Actuators are available for the operation of quarter-turn valves and dampers as well as linear valves (gate or globe).

Material	Steel or Ductile Iron
Function	Double Acting or Spring Return
Supply Medium	Air, Nitrogen, Inert Gas, Mineral Oil, Water or Similar
Supply Pressure	2 to 250 Barg
Torque Range	Up to 150,000 Nm
Thrust Range	Up to 400 kN
Temperature Range	20° to +80° C ( <i>Optional – Low &amp; High Temperature Versions</i> )



## Engineering Design

The challenge for engineering today is to reduce the cost of products whilst improving their quality and reliability.

MATIC engineers are committed to:

- Design quality valve automation systems which are easy to install, use and maintain.
- Make designs reliable and efficient in functionality.
- Continuously seek new design solutions to meet current user demands.
- Revise existing designs in order to make them more efficient and simpler to produce.
- Ensure designs are simple in concept but are safe and environmentally friendly.
- Work with the latest control technology in accordance with international standards.



## Aluminium Actuators

The range of aluminium actuators is based on proven rack & pinion design concept and is well suited for the operation of quarter-turn valves and dampers (versions also available for 120°, 135°, 150° or 180° rotation).

Material	Hard Anodised Aluminium
Function	Double Acting or Spring Return
Supply Medium	Air, Nitrogen or Inert Gas
Supply Pressure	2 to 10 Barg
Torque Range	Up to 1,500 Nm
Temperature Range	-20° to +100° C <i>(Optional – Low &amp; High Temperature Versions)</i>

## Control Systems

The ancillary control systems for actuators are of fundamental importance for providing actuator performance, functionality and reliability. MATIC has considerable experience in this field and can supply pneumatic and hydraulic control systems to satisfy all of the user's operational requirements.

### Solenoid Control

3/2-Way Single Coil, 5/2-Way Single or Dual Coil versions in both General Purpose and Hazardous Area Options (EEx ia, EEx d & EEx m) in either Stainless Steel, Brass or Aluminium Construction

### Position Monitors

Mechanical or Proximity End of Travel Switch / Sensor, 4 to 20 mA Feedback or Bus Communication versions in both General Purpose and Hazardous Area Options (EEx ia & EEx d) in either Stainless Steel, Aluminium or Engineered Resin Construction

### Positioner Control

Pneumatic, Electro-Pneumatic or Digital versions in both General Purpose and Hazardous Area Options (EEx ia & EEx d) in either Stainless Steel or Aluminium Construction





MATIC products are available for on/off and modulating control of valves and dampers within virtually every process industry in the World.

Industries served include:

● Oil & gas

● Offshore

● Marine

● Chemical

● Pharmaceutical

● Power

● Food

● Brewing

● Water

● Paper

● Steel

● Sugar



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