

G-Series Direct Gas Actuator

The solution to manual gearbox automation



EIM™


EMERSON™

The answer to the industry's need for an inexpensive, simple, reliable and durable gas actuator

The EIM G-Series pneumatic actuator from Emerson is a multi turn gas driven actuator that is perfect for applications using linear, rising stem or rotating stem valves. The G-Series direct gas actuator is the first actuator to utilize direct natural gas pressure to actuate a pipeline valve. Fundamentally, it simply replaces a gearbox handwheel with a gas-driven actuator that is capable of producing up to 900 ft/lb of torque.

The G-Series was installed on nearly all major pipeline systems worldwide long before other current brands were even conceived. Its compact, lightweight design ensures easy installation, versatility and simple maintenance. And thanks to the unique gear train, there's no need to use reservoir bottles filled with hydraulic fluid, and no need for complex control panels.

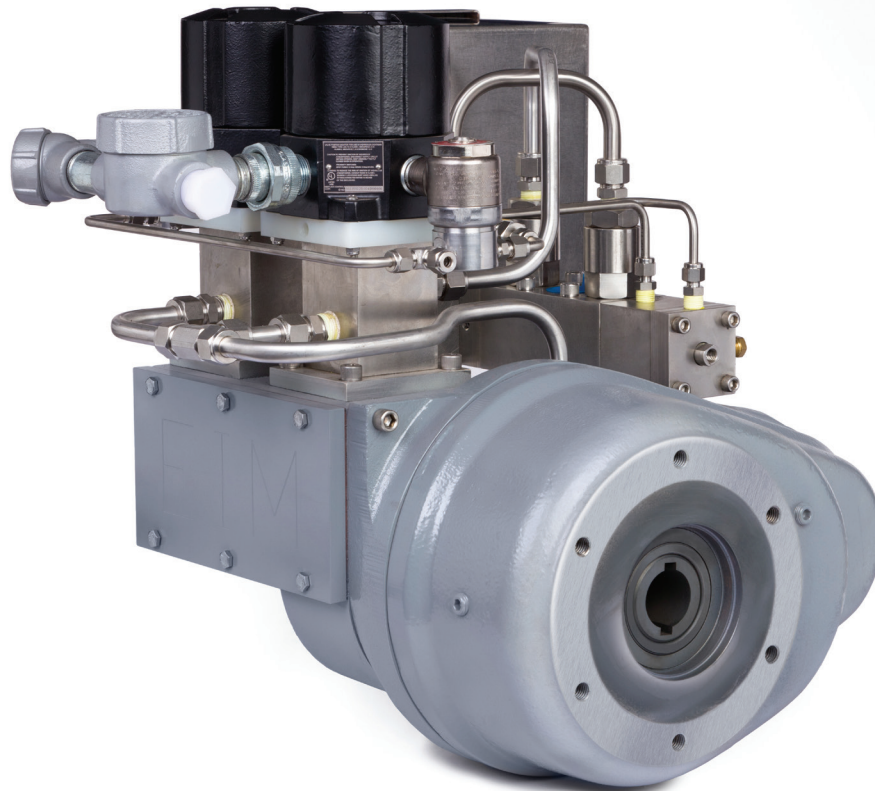
The G-Series can handle virtually any local or remote control system requirement. A variety of standard single or double acting pneumatic and electric remote control configurations are available. Valve position can be coupled to direct-mounted limit switches for remote electrical valve position indication. These switches meet all required area classifications.

G-Series is distinctive

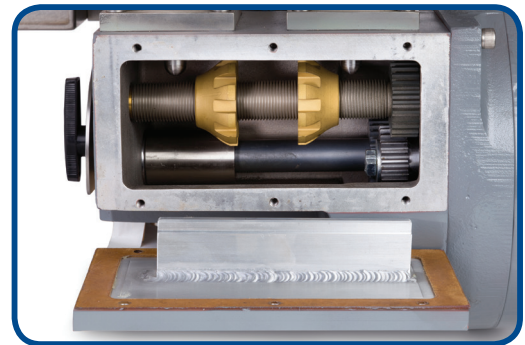
- Direct-power gas driven gear motor
- Single housing size with optional gear ratios for torque and speed changes
- Gear assisted handwheel drive for easy manual operation
- Easily adjusted, gear driven limit valves for reliable shutoff
- Interchangeable limit cam gearing to match any valve stroke time
- No hydraulic tanks or control panels required

G-Series offers numerous benefits

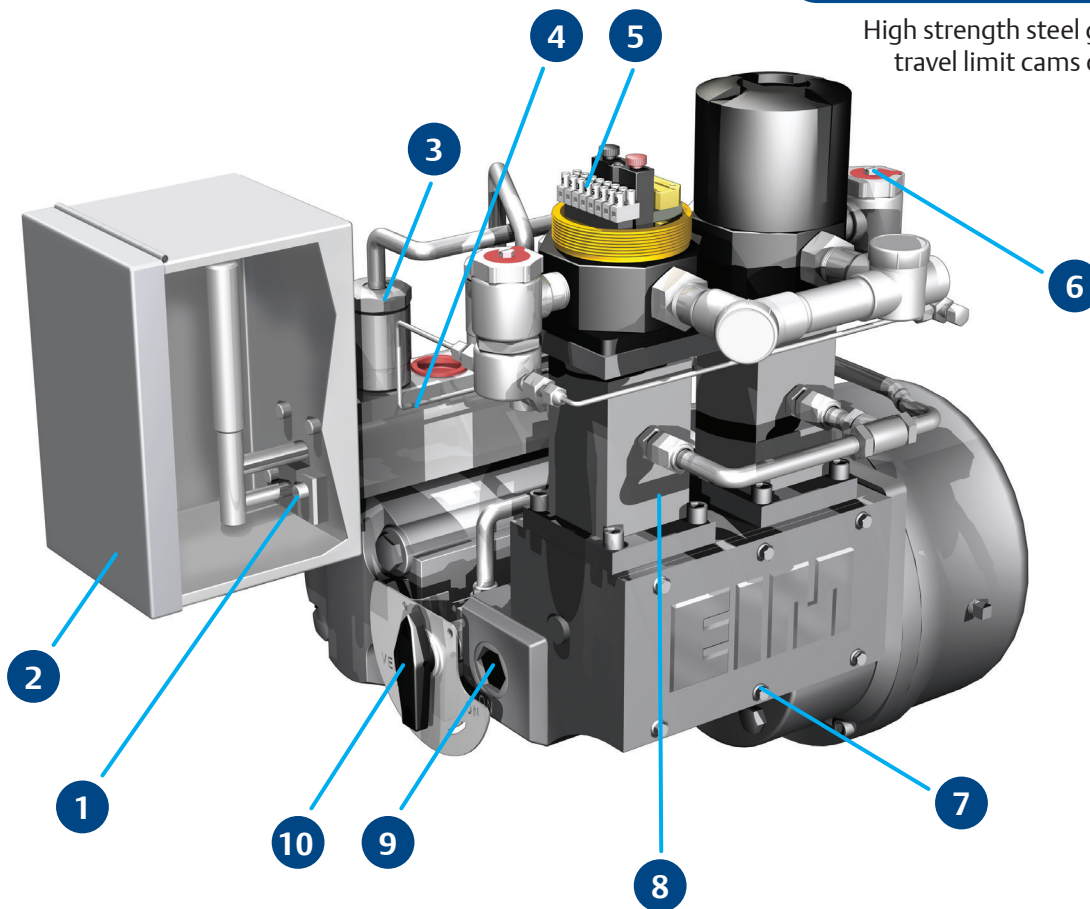
- Adaptable to most existing bevel or worm gears
- Corrosion resistant controls throughout
- Travel limit cams are in step with valve stroke during handwheel operation
- Cast iron gear housing
- Manual selector lever located in stainless steel padlockable box
- No power gas regulator required



EIM G-Series features



High strength steel gearing with travel limit cams operation

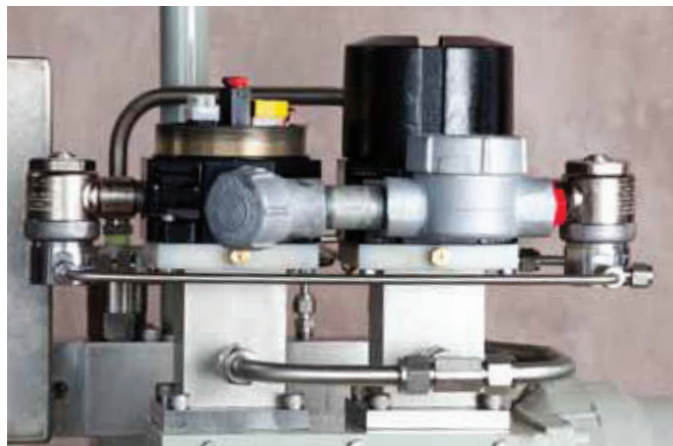


EIM G-Series features

- 1** On/off selector valve assembly
- 2** DOT-compliant stainless steel padlockable control box
- 3** Poppet valve assembly
- 4** Auto-close and ESD-compatible piston module
- 5** Optional limits switches
- 6** Optional solenoids for remote operation
- 7** Cast iron gear case (**see inset**)
- 8** Adjustable, end-of-stroke limit valves
- 9** Manual handwheel operation standard
- 10** Block and bleed power gas supply valve lockable in on or off position

G-Series control details and options

- G-Series power supply range 400-1480 psi (27-102 Bar)
- Remote indication using hermetically sealed, explosion proof micro switch assemblies. Limit switch certification rating: Cl 1, Div 1, Gps B, C & D; Class II, Divisions 1 & 2, Groups E,F,& G; NEMA Type 4, 4X
- Electric remote operation using explosion proof solenoids. Solenoid certification rating: Cl 1, Div 1, Gps C & D; Class II, Div 1, Groups E,F,& G; Div II, Groups C,D,E,F & G; NEMA Type 3
- Custom control schemes available
- Local control function using manually operated selector valve
- Padlockable stainless steel power gas block and bleed valve



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