

# Jamesbury® High-Performance Actuators



Maximizing  
cycle life.  
Lowering  
Costs.



# High-performance actuators.

Safe, smooth and trouble-free operation.

Metso offers a wide range of high-performing actuators designed to maximize cycle life and improve process efficiency. We also provide valve monitoring and communication solutions to facilitate connectivity of on-off valves to your plant network.

Compare our products for yourself.

Actuator Table		
Series	Type	Action
Valv-Power® VPVL	Pneumatic Rack & Pinion	Double Acting
		Spring Return
Quadra-Powr® X	Pneumatic Diaphragm	Spring Return
B-Series	Pneumatic Piston	Double Acting
		Spring Return
V-Series	Electric	Reversing
ADC-Series		
LCU-Series	Electric	Unidirectional
LCR-Series		Reversing
M-Series	Manual Gear Operated	Handwheel



Voltage Input	Torque Output	Bulletin
40 – 100 psi (2.7 – 6.9 bar)	2.5 – 4,581 ft•lb (3.2 – 6,211 N•m)	A111-5
60 – 80 psi (4.2 – 5.5 bar)	4.5 – 1,628 ft•lb (6.1 – 2,207 N•m)	A111-4
20 – 100 psi (1.4 – 6.9 bar)	11 – 587 ft•lb (15 – 796 N•m)	A110-4
43 – 102 psi (3.0 – 7.0 bar)	30 – 75,630 ft•lb (41 – 102,540 N•m)	6B20
115/230 VAC	150 – 3,000 in•lb (17 – 339 N•m)	A200-1
24/115/230 VAC 12/24 VDC		A201-1
150 – 600 in•lb (17 – 68 N•m)	A202-1	
	A203-1	
10 – 151 ft•lb (14 – 205 N•m)	92 – 17,770 ft•lb (125 – 24,096 N•m)	A100-1

# A range of reliable options.



## Valv-Powr® VPVL

The **Valv-Powr** VPVL actuator is available in either a double acting or spring return version. These actuators are suitable for all process applications. With (14) double-acting and (28) spring-return models available choosing the right size actuator for your valve needs is much easier. Leading to an overall reduction in the cost of the assembly and capital investment. It is a favorite in the chemical industries because of its compact design. The hard anodized PTFE coated body, polyester coated end caps, as standard, offer a high level of corrosion resistance. Additional corrosion treatments such as electroless nickel plating are also available.



## Quadra-Powr® VPVL

The **Quadra-Powr X** spring-diaphragm actuator is a unique solution that provides exceptionally smooth and reliable actuation for 90° rotary valves. It combines the low air pressure requirements of a diaphragm actuator with the high pressure capacity of a piston actuator. The result is smoother, more accurate operation (even at minimal supply pressures) and longer cycle life.



## B-Series

B1-Series piston actuators are available in either double-acting or spring-return versions. The Series B1C and B1J provide for mounting in accordance with ISO 5211/1. These actuators offer an extremely long life cycle and are well suited to operate almost any type of rotary valve.



## V-Series

Compact, rugged, reliable electric actuator designed for quarter-turn valve and damper applications; available in both NEMA 4/4X and NEMA 4/4X/7&9 configurations. Options include Modulating Control Board, ISO/Readback Board, Speed Control/Timer Board, Brake, Auxiliary Limit Switches, Heater/Thermostat, Keyed Output and Handwheel Override. Standard features: ISO-5211 Mounting, Visual Position Indication, CSA (C US) Certification, CE, and ATEX Certification (WX Models only).



## ADC-Series

Continuous duty On/Off or Modulating electric actuators with optional internal battery back-up. Standard features: On/Off or Modulating Operation (from the same circuit board), Brake, Two Auxiliary Limit Switches, Heater/Thermostat, ISO-5122 Mounting, Visual Position Indication, Universal Input Power, CSA (C US) Certification, CE, and ATEX Certification (WX Models only). Options include: NEMA 4/4X and 4/4X/7&9 enclosures, Metric output, Keyed Output and Handwheel Override.



## LCU-Series

Economical actuation for unidirectional applications. Lightweight NEMA 4/4X enclosure; limited options.



## LCR-Series

Economical actuation for reversing applications. Lightweight NEMA 4/4X enclosure; limited options.



## M-Series

Series M actuators are fully enclosed weather-proof, all cast iron and carbon steel construction. They are factory lubricated for their lifetime, requiring no future lubrication. Each unit includes a pointer to indicate valve position.



## Valve Monitoring & Communication

### Axiom® Advanced Valve Monitoring & Control



The **Axiom** non-incendive and explosion-proof platforms, available in epoxy-coated anodized aluminum or stainless steel, will withstand your most challenging plant environments. Its advanced position monitoring and integral pneumatic control offer the ultimate in reliability, convenience, and value.

### Quartz® Limit Switch For Hazardous Areas & General Purposes



The **Quartz** is available in explosion/flame proof (QX), intrinsically safe and non-incendive (QN) and general purpose (QG) versions. The robust epoxy coated anodized aluminum or stainless steel construction makes this platform extremely durable and well suited for use in corrosive, heavy wash down application, and high seas environments.

### Eclipse® Limit Switch For Hazardous Areas & General Purposes



The **Eclipse** features dual solid state sensors with optional communications integrated into a sealed module. The function module and trigger/indicator attach quickly and conveniently to standard VDI/VDE 3845 (Namur) actuator accessory mounting pads. The **Eclipse** series is available in non-incendive and intrinsically safe version (EN) and in a general purpose version (EG).

### Hawkeye® Linear Point Sensor



The solid state **Hawkeye** sensor is ideal for point sensing in corrosive and hazardous process environments. The standard red/green LEDs also speed your setup and installation by confirming power up and switch status. The **Hawkeye** is approved for non-incendive and intrinsically safe applications (HK) or explosion/flame proof applications (HX).

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