

Emerson Provides Five Million Cycles in Actuation

RESULTS

- Bettis Stainless Steel M Series provided over 5,000,000 cycles
- Never removed from service for maintenance
- Out-performed expectations



APPLICATION

Bettis Stainless Steel M Series was installed in a waste water treatment plant in British Columbia on high performance butterfly valves. The valves are used to control a hot air (120° C at 10 psi) application.

CHALLENGE

The hot air is “dumped” into the effluent stream on a very regular basis; each valve cycles opens and closes every eight seconds, 24 hours a day, 365 days per year.

- 7.5 cycles per minute
- 450 cycles per hour
- 10,800 cycles per day
- 328,500 cycles per month
- 3,942,000 cycles per year

Reliable Operation

Needing over 5,000,000 cycles without repeated inspections and regular preventive maintenance. The actuators remain in service since day one without being removed from service for inspection or maintenance.

The Bettis Stainless Steel M Series performs without fail time and time again in wastewater treatment.

SOLUTION

The Bettis Stainless Steel M Series is designed for millions of cycles with bushings and bearings on every moving part and standard stainless materials of construction on the yoke and cylinders.

The actuator accumulated over 5,000,000 cycles without failure and never removed for maintenance since start up.

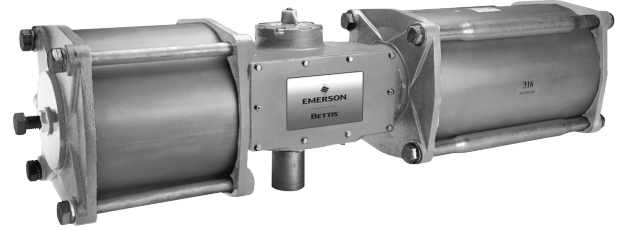
Reliable Operation

The Bettis M Series' innovative stainless-steel construction provides superior internal and external corrosion resistance. The heat-treated stainless-steel thrust pin and rollers transfer piston force to yoke to reduce friction for longer life and more efficient torque transmission.

Reduced Maintenance

The PTFE piston bearings, piston rod bushings and output shaft bushings provide longer life, reduce maintenance and require no lubrication.

High strength 17-4 PH stainless output shaft transmits torque and gives long service life.



Bettis Stainless Steel M Series

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