

Bettis RPE-Series Pneumatic Actuator

Dependable Performance For The Toughest Environments



BETTIS™


EMERSON™

Bettis RPE-Series

The RPE-Series is the heavy duty rack & pinion actuator from Bettis. Its rugged industrial design offers a tough “workhorse” range of valve actuators due to a unique set of features.

These features combine to provide a reliable actuator that:

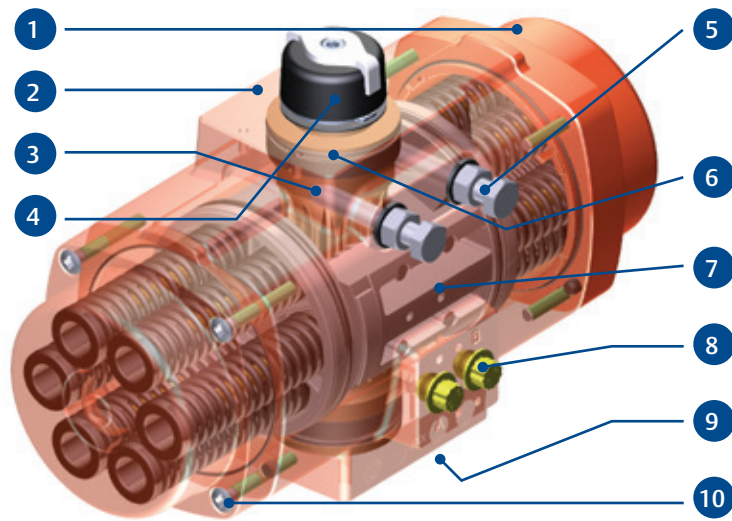
- Improves valve automation to ensure your plant uptime and prevent unplanned downtime
- Makes your installation and maintenance simple and easy due to the standardized customer interfaces
- Allows you to apply the actuator indoors and outdoors, at extreme temperatures, harsh duty and corrosive atmospheres



The Right Size of Actuator

Spring-return actuator can be equipped with up to 6 individual pocket springs on each side of the actuator. This allows you to select and configure the most economical actuator size for your application.

The robust and “work-horse” performance actuator for any harsh environment



1. Heavy duty body castings provide maximum protection in the harsh environment of process plant locations
2. Polyurethane powder coating provides excellent corrosion resistance on housing and end caps
3. One piece blow-out proof, pressure balanced, pinion allows safe in-field re-configuration from Fail-Close to Fail-Open. The use of aerospace type alloy 7075 T6, provides the best combination of corrosion resistance, high strength and a lightweight construction as well as providing protection against galvanic corrosion
4. VDI/VDE 3845 (NAMUR) top accessory interface
5. Precision dual stroke adjustment provides accurate and intuitive end of stroke adjustment for the Open and Closed valve position
6. Low maintenance bearings for pistons and pinion
7. Accurately designed and machined components assure a perfect fit and long cycle life
8. VDI/VDE 3845 (NAMUR) solenoid interface
9. Dual ISO 5211 mounting patterns allow low-profile direct mounting to valves
10. Stainless steel or Deltatone® coated fasteners

General Specifications

Torque Range:	Double-Acting 119 to 39498 lbf.in (13.4 to 4449 Nm)	
	Spring-Return 20 to 21188 lbf.in (2 to 2394 Nm; spring end torque)	
Rotation:	Factory set at 90°	
Temperature Range:	-4°F to 175°F (-20°C to 80°C)	
Finish:	Body and end caps: Cast aluminium, anodized and polyurethane powder coated	Pinion: High grade aluminium, hard anodized
	Pistons: Chromated	Fasteners: Stainless steel or Deltatone® coated
Lubrication:	Lubricated for life	
Pressure Range:	2.9 to 120 psig (0.2 to 8.3 barg)	
Pressure Media:	Air, dry or lubricated and inert gases	

Advanced Design leads to Application Flexibility

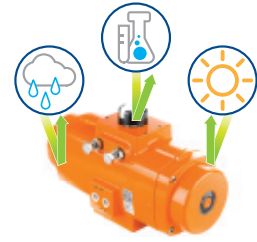


Advanced design techniques

Bettis RPE-Series is the result of 40-years of production and design refinement following stringent engineering standards to perform under the toughest, heavy duty applications

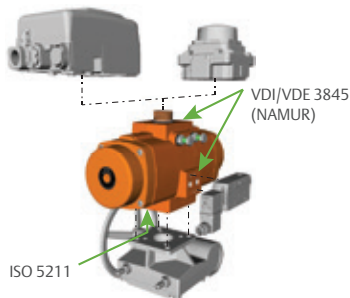


Modular Construction allows the maximum flexibility across a wide range of applications. In addition, new spring design allow for different air pressures to fit choice of valve

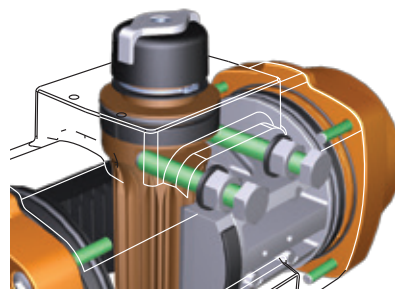


Maximum corrosion protection in every Bettis RPE is achieved by using anodized body and end cap, stainless steel or Deltatone® coated external steel parts and a polyurethane powder coat. It is tested to exceed 1000 hours salt spray to the ASTM B117 standard to assure a corrosion free long service life

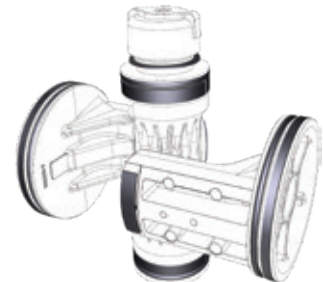
Ease of Use from Installation to Configuration to Maintenance



Compliance to the relevant interface standards ensures standardization of the valve mounting, solenoid mounting and top mounted switch box or positioner mounting



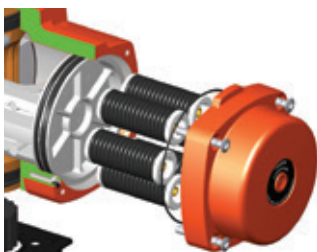
Dual Stroke Adjustment provides precise intuitive end of stroke adjustment for the Open and Closed valve position



Low Maintenance Bearings

The actuator is lubricated for life. Together with the high performance synthetic bearings, the actuator provides long working life with low maintenance requirements

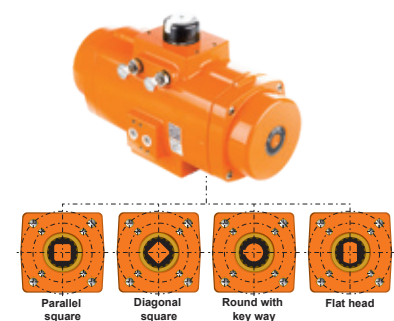
Safety, Performance and Global Compliance



Functional and personal safety is your plant's number one priority. The spring cartridge design provides maximum personnel safety during maintenance and ensures that "Fail Safe" actuators will always do just that

Quality	ISO9001:2008	✓
Valve Flange	ISO 5211	✓
Solenoid	VDI/VDE3845	✓
Top Accessories	VDI/VDE3845	✓
Explosive Areas	ATEX	✓
Pressure Safety	PED	✓
Mechanical Safety	MD	✓

Bettis RPE pneumatic actuators are manufactured to meet **worldwide quality and safety standards**



Drive inserts and dual drilling patterns on the valve flange **make direct mounting flexible**, no matter if the valve stem is; square, flat head, or round with key way

This product is only intended for use in large-scale fixed installations excluded from the scope of Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS 2).



Certifications

Bettis RPE-Series pneumatic actuators are manufactured to meet the following worldwide quality and safety standards:

Safety Standards



Product Interface Standards

VDI/VDE3845 (NAMUR)
ISO – 5211

Company Operations Standards

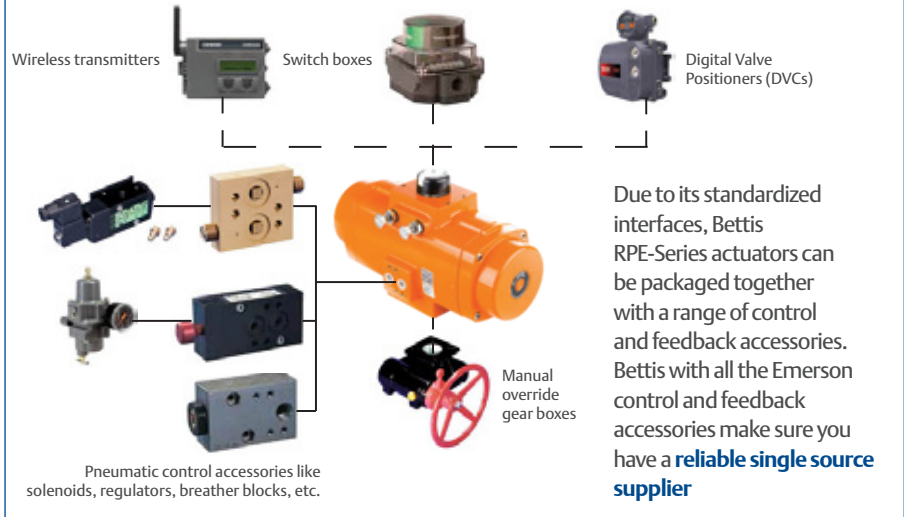
ISO – 9001 Quality Assurance



For complete technical and installation documentation, scan QR.

www.emerson.com/bettis

Reliable single source supplier



We offer sales support, service, inventory and commissioning to our global customers. Choose the sales office nearest you:

P.O. Box 17033
Jebel Ali Free Zone
Dubai
United Arab Emirates
T +971 4 811 8100
F +971 4 886 5465

P.O. Box 105958
Abu Dhabi
United Arab Emirates
T +971 2 697 2000
F +971 2 555 0364

P.O. Box 10305
Jubail 31961
Saudi Arabia
T +966 3 340 8650
F +966 3 340 8790

P. O. Box 3070
Al-Khobar 31952
Saudi Arabia
T +966 3 857 3157
F +966 3 857 8491

P. O. Box 32281
Doha
Qatar
T +974 4 576777
F +974 4 315 448

24 Angus Crescent
Longmeadow Business Estate East
P.O. Box 6908 Greenstone 1616
Modderfontein Extension 5
South Africa
T +27 11 451 3700
F +27 11 451 3800

Dar Ibtikar Al Iraq for General Trading and
General Services LLC
Area 29 Villa 61
Albradheya Saeed Ameen St.
Basra Iraq
T +971557008704

For complete list of sales and manufacturing sites, please visit www.emerson.com/actuationtechnologieslocations or contact us at info.actuationtechnologies@emerson.com

©2018 Emerson. All rights reserved.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Bettis™ is a mark of one of the Emerson family of companies. All other marks are property of their respective owners.

BETTIS™

DOC.4P.BRPE.UK Rev C 06-18

EMERSON™