Bettis[™] Q-Series Pneumatic Actuator and "Fully Integrated" Controls

Your First Choice for a Valve Operating System™





Bettis Q-Series offers a new way of looking at valve automation by combining field-proven rack and pinion pneumatic actuator with the necessary controls in an integrated modular package.

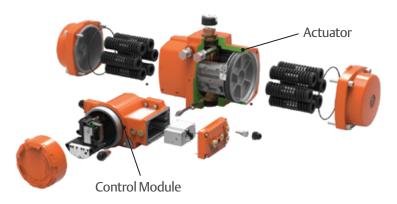
Gone are the non-integrated accessories from multiple vendors, mounting brackets, cumbersome external cabling and tubing that allows you to:

- Achieve up to 20% reduction in installation and commissioning time
- Automate valves with small VOS footprint offering flexibility for retrofit into existing pipe runs

The bottom line is that with the Bettis Q-Series you can improve installation time, reduce VOS complexity and automate valves in even the tightest of piping configuration.



The Industry's Only "Fully Integrated" Pneumatic Valve Operating System (VOS)



The Q-Series solution enables you to:

- Reduce commissioning cost by the easy to mount single unit.
- Provide maximum flexibility in various applications with the modular design.
- Use the Q-Series Valve Operating System in compact installations benefiting from the low profile.
- Prevent unplanned Plant-Down-Time using the PlantWeb™ or NAMUR NE 107 connectivity with predictive diagnostic capabilities.

Integrated controls provide:

- A single electrical connection point, reducing wiring complexity.
- One Control Module for the full actuator range, reducing stock levels of various spare parts.
- One source of supply for Valve Operating Systems, reducing sourcing complexity.

Actuator Features:

- Robust and durable spring-return or double-acting actuator design.
- Output torque ranging from 40 to 1600 Nm (354 to 14161 lbf.in)
- Easy exchangeable spring cartridges offer six different spring sets for a wide range of supply pressures.
- The high corrosion resistant design provides a long cycle life, also for aggressive industrial environments.
- The valve stem insert mounting options in accordance to ISO 5211 offers cost effective and versatile direct mounting to your valve.

Control Module Features:

- Easy exchangeable cartridges for pilot valves, limit switches or booster blocks.
- Standard "Breather" function protects spring chambers for corrosion.
- Externally adjustable switch point setting, from outside the Explosion Proof enclosure, prevents "hot-work-permits" or down time for switch adjustments.
- Easy accessible wiring compartment.
- Auto-Initialization by FOUNDATION™- Fieldbus or push button for easy setup.
- Available with FM, CSA, ATEX, INMETRO and IECEx approvals for use in explosive atmospheres







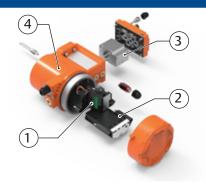
Ensured reliability through innovative product design



Hard anodized actuator body and module with protective finish protects from corrosive environments.



Extended Life - Nylatron® guide band and PTFE piston guide bands provides wear protection between housing and piston for extended service life.



Innovative design provides exchangeable cartridges for pilot valves (1), limit switches (2) or booster blocks (3) in an Explosion Proof enclosure (4) for maximum environmental protection.

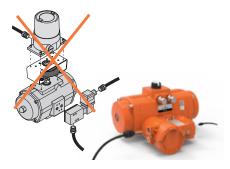
Quick start up benefit from our simplified design



Simple Conversion - With an Allen key wrench, convert double-acting to spring-return configuration.



Non-Intrusive Switch Setting: Avoids the need for hot-work down time and maintains integrity of explosion proof environment.



Plug and Play capability reduces the need for mounting brackets, cabling and tubing and adapters.

Increased personnel and process safety











Integrated controls in **explosion proof design module** offers FM, CSA, ATEX, IECEx and INMETRO approvals.



Patented Intelligent Position Tracking allows the integration of controls and feedback into one single product.



Encapsulated spring design provides superior field safety - when removed, springs remain part of the assembly.



Valve Operating System (VOS)

stands as a versatile, rugged, and efficient solution. It combines a field-proven rack and pinion pneumatic actuator with controls in an integrated modular package. The Bettis **Q-Series solution offers true** 'plug and play' capability without mounting brackets. cumbersome external cabling, and tubing.

Patented Intelligent Position Tracking allows the integration of controls and feedback into one single product.

Non-Intrusive Switch **Setting:** Avoids the need for hot-work down time and maintains integrity of explosion proof environment.



For complete technical and installation

documentation scan QR.

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).

World Area Configuration Centers (WACC) offer sales support, service, inventory and commissioning to our global customers. Choose the WACC or sales office nearest you:

NORTH & SOUTH AMERICA

19200 Northwest Freeway Houston, TX 77065 T+1 281 477 4100

Av. Hollingsworth, 325, Iporanga Sorocaba SP 18087-105 Brazil T+55 15 3238 3788

F+55 15 3228 3300

F+1 281 477 2809

ASIA PACIFIC

No. 9 Gul Road #01-02 Singapore 629361 T +65 6501 4600 F +65 6268 0028

No.1 Lai Yuan Road Wuqing Development Area Tianjin 301700 P.R.China T+86 22 8212 3300 F +86 22 8212 3308

MIDDLE EAST & AFRICA

P. O. Box 17033 Dubai **United Arab Emirates** T+971 48118100 F +971 4 886 5465

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

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

EUROPE

Berenyi u. 72-100 Videoton Industry Park Building #230 Székesfehérvár 8000 Hungary T+36 22 53 09 50 F+36 22 54 37 00

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

www.emerson.com/bettis

©2018 Emerson. All rights reserved.

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

The contents of this publication are presented for information purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or quarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.



