rotork®

Keeping the World Flowing

Precision Control Product Overview

Electro-pneumatic Transducers, Pressure Regulators, Pneumatic Relays, Volume Boosters and Accessories

A rotork Brand

FAIRCHILD

precision pneumatic & motion control

rotork®

Keeping the World Flowing

Reliable operation
when it matters

Assured reliability for critical applications and environments.

Whether used 24/7 or infrequently, Rotork products will operate reliably and efficiently when called upon.

Quality-driven
global manufacturing

Products designed with 60 years of industry and application knowledge.

Research and development across all our facilities ensures cutting edge products are available for every application.

Customer-focused service
worldwide support

Solving customer challenges and developing new solutions.

From initial enquiry through to product installation, long-term after-sales care and Client Support Programmes (CSP).

Low cost
of ownership

Long-term reliability prolongs service life.

Rotork helps to reduce long term cost of ownership and provides greater efficiency to process and plant.

Precision Control Product Overview

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Comprehensive product range
serving multiple industries

Improved efficiency, assured safety and environmental protection.

Rotork products and services are used throughout industry inclusive of Power, Oil & Gas, Water & Wastewater, HVAC, Marine, Mining, Pulp & Paper, Food & Beverage, Pharmaceutical and Chemical industries around the world.

Market leader
technical innovator

The recognised market leader for 60 years.

Our customers have relied upon Rotork for innovative solutions to safely manage the flow of liquids, gases and powders.

Global presence
local service

Global company with local support.

Manufacturing sites, service centres, sales offices and *Centres of Excellence* throughout the world provide unrivalled customer services and fast delivery.

Corporate social
responsibility

A responsible business leads to being the best business.

We are socially, ethically, environmentally responsible and committed to embedding CSR across all our processes and ways of working.

rotork®

Keeping the World Flowing

Active in every industry and market sector around the world.

Serving customers and working with partners.

Improving efficiency, assuring safety and protecting the environment.

Industry knowledge

Our engineering and application knowledge base, built over 60 years, allows us to provide innovative and reliable solutions for all flow control applications.

We work across the globe, servicing a diverse range of markets and critical applications.

Our experience of flow control is second to none.

Oil & Gas

Rotork products are used on upstream, midstream and downstream activities, ranging from offshore production facilities, to refining and processing, to transportation, storage and distribution.

- Onshore and offshore production
- Refining and petrochemicals
- Distribution and storage
- Pipelines
- LNG liquefaction and regasification
- Unconventional oil & gas

Water & Wastewater

Rotork products are used on modern state-of-the-art water treatment and distribution processes, which maximise existing resources such as desalination plants and water re-use projects, together with conventional water and wastewater plants.

- Sludge and sewage treatment
- Water treatment, desalination and re-use
- Environmental control
- Dams, reservoirs and irrigation

Power

Rotork products are found in traditional power stations, including nuclear power stations where its products are certified for use both inside and outside containment. They are also used for renewable energy generation systems such as thermal solar plants, and emission reduction processes such as flue gas desulphurisation.

- Conventional fuels
- Nuclear energy
- Concentrating solar power
- Geothermal and other renewables

Other Industries

- Marine
- Pharmaceutical
- HVAC
- Mining
- Biomedical
- Rail
- Pulp & Paper
- Food & Beverage
- Chemical
- Industrial Automation
- Power Generation
- Automotive
- Textile Manufacturing

rotork®

Rotork have a number of instrumentation equipment production facilities throughout the world, complemented by a large network of distribution and support centres.

Worldwide Industry and Application Experience

Rotork offer a complete range of precision control and valve accessory products through our prestigious brands, including Fairchild, YTC, Soldo®, Midland-ACS™, Bifold®, Orange, M&M and Alcon.

Instrument Valves

- Valve actuation accessories
- Solenoid valves
- Piston valves
- Instrument valves
- Medium pressure valves
- Subsea valves and connectors

Controllers

- Valve positioners
- Rail systems
- I/P and E/P converters
- Pressure Regulators
- Volume Boosters
- Pneumatic Relays

Measurement

- Valve position sensors
- Transmitters and switches

Instrument Pumps

- Pumps
- Intensifiers and accumulators

Rotork is proud to offer a diverse range of products which serve many different duties in a wide variety of applications. We also offer a factory customisation service to create one-off units to meet specific needs.

Specialist products for control and measurement of flow and pressure.

Trusted wherever there is a need for high precision and reliability, including oil & gas, pharmaceutical, biomedical, and manufacturing industries.

Bifold® A rotork Brand

A rotork Brand FAIRCHILD precision pneumatic & motion control

YTC A rotork Brand

SOLDO® CONTROLS A rotork Brand

M&M International A rotork Brand

MIDLAND-ACS™ A rotork Brand

A rotork Brand
FAIRCHILD
precision pneumatic & motion control

The Widest Range of Products for Diverse Market Applications

For over 60 years, Fairchild Industrial Products Company has maintained an excellent reputation as a manufacturer of precision, high quality, pneumatic, and electro-pneumatic controls.

Our line of industrial control products offers one of the largest varieties of precision pneumatic and electro-pneumatic control devices available for process, machine tool, robotic and OEM applications. Our developing technology in four main product groups pneumatic pressure regulators, volume boosters, relays and electro-pneumatic transducers has been the basis for our growth and leadership.

Fairchild Industrial Products Company is ISO 9001 approved. We are authorized to display the CE mark on our electro-pneumatic products.

Many of our electro-pneumatic products are also approved for intrinsically safe, explosion-proof, and NEMA 4X (IP65) ratings by FM, CSA and ATEX.

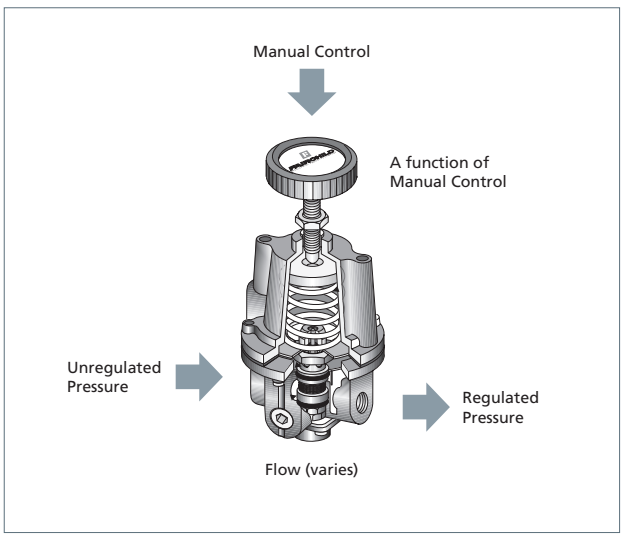
Our worldwide network of stocking distributors can assist you with application support at the local level. At the factory, our applications engineering staff can solve your problems with new or existing applications. We can work with your plant and design engineers to develop a custom product to suit a specific application.

At Fairchild Industrial Products Company, we have built our reputation on providing quality products, excellent customer service, quick delivery, and immediate response to customer emergencies.

	Oil & Gas	Chemical	Pharmaceutical	Industrial Automation	Medical/ Biotech	Food & Beverage	Power Generation	Pulp & Paper	Automotive	Textile Manufacturing
I/P and E/P Transducers and Actuators	T6000 T7800 TXI7800 PAX1	T5200 T6000 TXI7800 T9000 PAX1	T5700 T6000 T7800 TXI7800	T5220 T6000	T5700 T6000 T7800 TXI7800	T5220 T5700 T6000 T7800 TXI7800 T8000	T7800 TXI7800 T8000 PAX1	T5220 T5221 T6000 T7800 TXI7800 T8000 T9000	T5200 T5220 T6000 T7800 T9000	T5700 T6000 T7800 TXI7800
Pressure Regulators	10 10BP 63 65 100 PAX1	10BP 63 65 81 PAX1 4100A	17 18 55 65 66 66BP 70B 81 1600A	10 11 16 30 65 70 81 1000 1600A 4000A 4100A	17 18 55 65	10 30 65 200 2000 4000A	63 65 PAX1	10 16 30 65 70 80 81 85 100 4000A	10 16 30 65 70 80 81 1600A 4000A	10 30
Pneumatic Relays	14 24 90 91	24	24	-	15	14 24	-	14 15 21 22 25 90 91 1500	90 91	14 15 21
Volume boosters	20 200 200XLR 4500A 4800A	20 200 4500A 4800A	20 200 4500A	4500A 4900A	20 4500A 4900A	20 200 4500A 4900A	20 200 4500A 4800A	20 200 2000 4500A	20 200 4500A 4900A	20 4500A

Pneumatic Pressure Regulators

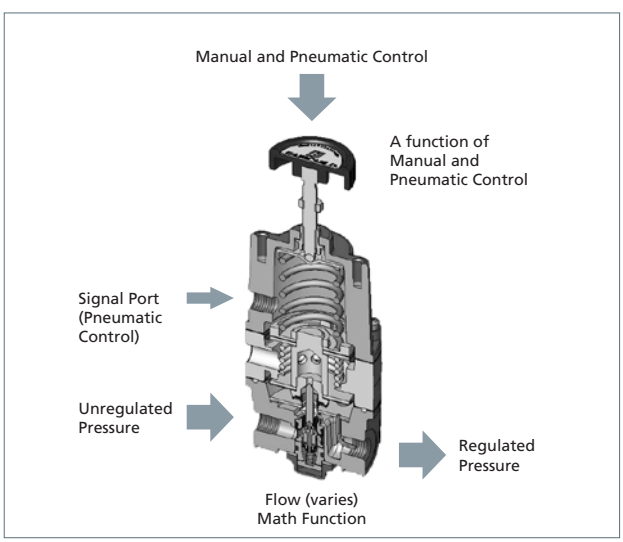
A pressure regulator reduces an unregulated high input pressure to a regulated lower output pressure. Its primary function is to maintain the regulated output pressure under flowing and non-flowing conditions.



Pneumatic Relays

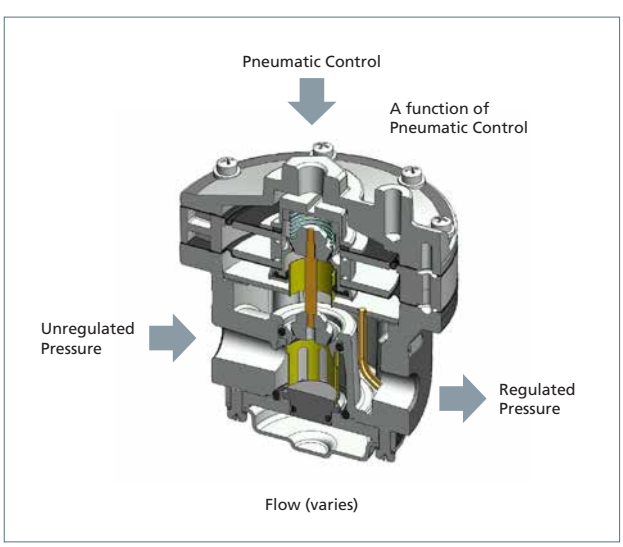
Pneumatic relays perform mathematical functions on one or more input signals that result in a single regulated pneumatic output including:

- Average
- Sum
- Differential
- Multiplying
- Dividing
- High / Low Selection
- Reversing
- Snap-acting (NC or NO)



Pneumatic Volume Boosters

A pneumatic air volume booster reproduces a low flow control signal with a greater flow regulated output pressure. It uses an unregulated input pressure to maintain a regulated output pressure under flowing and non-flowing conditions.

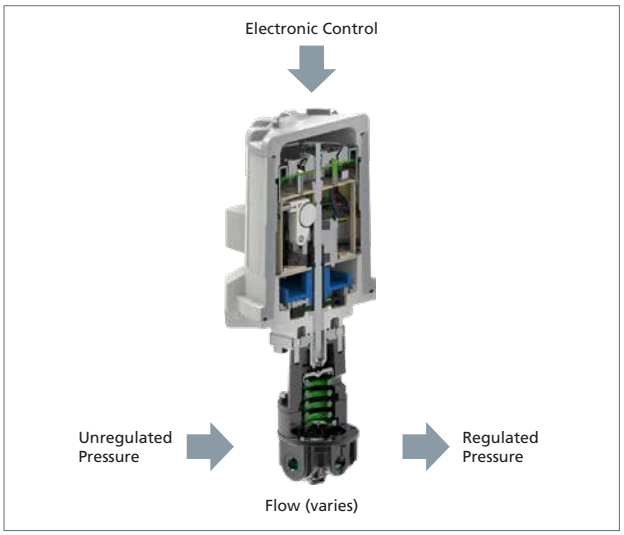


Product Range – Methods of Operation

Electronic Control of Pressure

In today's world of computerized electronic control of processes, there exist the need for electronically controlled devices for controlling pressure. These devices form the important interface between the electronic world and the pneumatic world.

Rotork Fairchild has a number of products employing different technologies for electronic control of pressure.



Motor Set Pressure Regulator

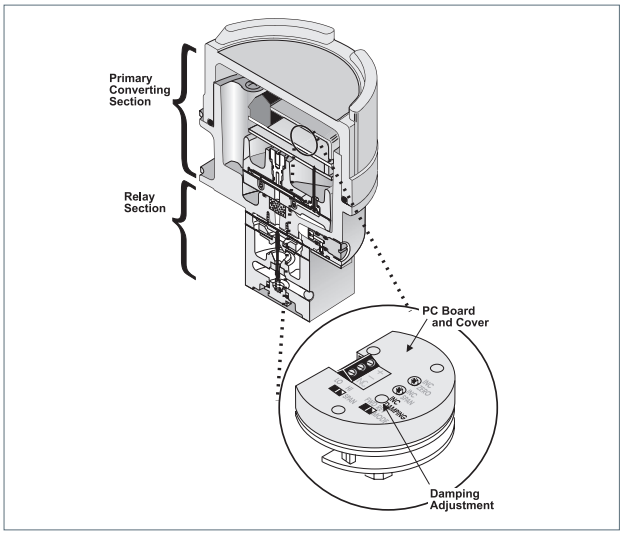
Rotork Fairchild's Motorized Pressure Regulator provides the utmost in bullet proof electronic pressure control. Inherently lock in last place and coupled with virtually any of Rotork Fairchild's time proven pressure regulators, these devices can endure the harshest of pneumatic pressure control environments. The actuator portion of these instruments are housed in an explosion proof, IP66 & IP68 enclosure. Digital pulse as well as analog control, fully configurable end travel limits and NO & NC position limit switches round out the control interface.

Electro-Pneumatic Transducers

Rotork Fairchild's Electro-pneumatic transducers employ simple but highly robust voice coil Flapper Nozzle technology as the primary electro-mechanical converting element for controlling pressure. This is a cost effective, signal powered solution to many electro-pneumatic interface applications. These compact, light weight I/P and E/P transducers are offered in a variety of inputs, outputs and connection options that enable solutions to virtually any application.

Electronic Feedback Transducers

Rotork Fairchild's feedback Electronic transducers are a step up from the voice coil flapper nozzle controlled pressure transducers. These piezo-ceramic flapper nozzle transducers feature vibration resistant piezo-ceramic actuator and high accuracy closed loop pressure feedback control of the output pressure. A high accuracy pressure sensor monitoring the output pressure provides highly accurate and stable feedback pressure control. These transducers are available in a variety of inputs and outputs, and connection methods. These are offered in IP66 intrinsic safety, and explosionproof versions for satisfying both general industrial and hazardous area applications.



Product Range – Methods of Operation

Microprocessor Controlled Pressure Controllers

Rotork Fairchild's microprocessor controlled pressure controllers are feature rich PID controlled pressure controllers. Primarily intended for machine control applications, these have a push button and LCD display user interface providing the utmost in flexibility and configurability. The feed and bleed solenoid valve technology primary pressure control system is highly accurate and efficient and can be configured to be non-consuming in steady state conditions. This technology is also resistant to vibration and shock and changes in position. These pressure controllers feature optional electronic feedback output and are offered in three pressure ranges up to 10 bar.

Product Range – Accessories and Service Kits

Accessories

Fairchild offers a variety of accessories for product support.

These items are:

- Mounting brackets
- Automatic drain filters are available to remove dirt, water, oil and other foreign matter from supply air lines.
- Manifold and rack kits for high density mounting T6000, T7800, T8000 and T9000 Series transducers.

Service Kits

Service kits are available for most products. These kits include elastomers and other wear items that are necessary to restore the unit to it's original operating condition.

Product Specifications – High Precision Pressure Regulators

	Standard (Pneumatic) Pressure Range				
	10	**30**	**80D**	**81**	**1000**
Flow Capacity - SCFM (m^3/hr) @ Supply Pressure of 100 psig (700 kPa)	40 (68)	40 (68)	14 (24)	50 (85)	50 (85)
Exhaust Capacity - SCFM (m^3/hr) Downstream pressure 5 psig (35 kPa) above 20 psig (150 kPa) set point	5.5 (9.4)	2.0 (3.4)	2.5 (4.2)	5.5 (9.4)	8 (13.6)
Sensitivity - inches of WC (cm of WC)	0.125 (0.32)	0.25 (0.63)	< 0.125 (< 0.32)	< 0.1 (< 0.254)	0.5 (1.27)
Supply Pressure Variation - psig (kPa) For Supply Pressure Change - psig (kPa)	<0.1 (<0.7) 100 psig (700 kPa)	<0.2 (<1.4) 100 psig (700 kPa)	< 0.2 (< 1.4) 100 psig (700 kPa)	< 0.2 (< 1.4) 100 psig (700 kPa)	< 0.1 (< 0.7) 100 psig (700 kPa)
Maximum Supply Pressure - psig (kPa)	500 (3500)[1]	250 (1700)	150 (1000)	150 (1000)[2]	250 (1700)
Dimensions (Approx.) - Inches (mm)	Dia. 3" H 6½" (Dia. 76 H 165)	2½" x 1¾" x 5¼" (57 x 44 x 133)	2⅛"x 1¾" x 5⅜" (57 x 45 x 137)	Dia. 3" H 6¼" (Dia. 76 H 160)	2⅛"x 2⅛" x 5" (54 x 54 x 127)
Output Pressure Range - psig (kPa)	0-2 (0-15) 0-10 (0-70) 1-20 (7-150) 0.5-30 (3-200) 1-60 (7-400) 2-150 (15-1000) 3-200 (20-1500) 5-300 (35-2100) 5-400 (35-2800) 5-500 (35-3500)[1]	0-2 (0-15) 0-10 (0-70) 0.5-30 (3-200) 1-60 (7-400) 2-100 (15-700)	0-20 (0-150) 1-60 (7-400) 1-100 (7-700)	0-2 (0-15)[2] 0-5 (0-35)[2] 0-20 (0-150) 0.5-60 (3.5-400) 0.5-100 (3.5-700)	0.5-10 (3.5-70) 0.5-30 (3.5-200) 1-60 (7-400) 2-150 (15-1000)
Port Size (NPT, BSPT or BSPP)	¼", ⅜", ½"	¼", ⅜"	⅛", ¼", ⅜"	¼"	¼", ⅜"

[1] - Maximum Supply Pressure for 5-500 psig ("A" Range) is 525 psig (3620 kPa)
[2] - Maximum Supply Pressure for 0-2 & 0-5 psig ranges is 100 psig (700 kPa)

	Standard (Pneumatic) Pressure Range		Low Pressure	
	4000A	**100**	**11**	**4100A**
Flow Capacity - SCFM (m^3/hr) @ Supply Pressure of 100 psig (700 kPa)	150 (255)	1500 (2550)	20 (34)	25 (42)
Exhaust Capacity - SCFM (m^3/hr) Downstream pressure 5 psig (35 kPa) above 20 psig (150 kPa) set point	40 (65.2)	44 (75)	0.5 (0.85)[3]	1.5 (2.55)[3]
Sensitivity - inches of WC (cm of WC)	0.5 (1.27)	0.5 (1.27)	0.05 (0.127)	0.05 (0.127)
Supply Pressure Variation - psig (kPa) For Supply Pressure Change - psig (kPa)	< 0.1 (< 0.7) 100 psig (700 kPa)	< 0.5 (< 3.5) 100 psig (700 kPa)	< 0.01 (< 0.07) 100 psig (700 kPa)	< 0.01 (< 0.07) 100 psig (700 kPa)
Maximum Supply Pressure - psig (kPa)	250 (1700)	250 (1700)	150 (1000)	150 (1000)
Dimensions (Approx.) - Inches (mm)	Dia. 4½" H 8" (Dia. 114 H 203)	Dia. 5½" H 11¼" (Dia. 133 H 286)	Dia. 5¼" H 7 3/32" (Dia. 133 H 180)	Dia. 8½" H 8⅝" (Dia. 216 H 220)
Output Pressure Range - psig (kPa)	0.5-10 (3.5-70) 0.5-30 (3.5-200) 1-60 (7-400) 2-150 (15-1000) 5-250 (35-1700)	0-10 (0-70) 0.5-30 (3.5-200) 1-60 (7-400) 2-100 (15-700) 2-150 (15-1000)	0-0.5 (0-3.5) 0-2 (0-15) 0-4 (0-30) 0-6 (0-40) 0-12 (0-80)	0-0.7 (0-4.8) 0-1.4 (0-9.7) 0-3 (0-21) 0-5 (0-35)
Port Size (NPT, BSPT or BSPP)	⅜", ½", ¾"	1", 1½"	¼", ⅜", ½"	⅜", ½", ¾"

[3] - Downstream pressure is 0.1 psig (0.7 kPa) above 1.0 psig (7 kPa) set point

Product Specifications – High Precision Pressure Regulators

	Vacuum Regulators			
	16	**17**	**18**	**1600A**
Flow Capacity - SCFM (m^3/hr) @ Supply Pressure of 100 psig (700 kPa)	2.5 (4) @ Vacuum[4] or 40 (68) Positive Flow	12 (20.4)	8 (13.6)[4]	28 (48) @ Vacuum[4] or 150 (255) Positive Flow
Exhaust Capacity - SCFM (m^3/hr) Downstream pressure 5 psig (35 kPa) above 20 psig (150 kPa) set point	5.5 (9.4)	2.0 (3.4) (Relief Capacity)	Not Applicable	20 (34)
Sensitivity - inches of WC (cm of WC)	0.5 (1.27)	0.125 (0.32)	0.125 (0.32)	1.0 (2.54)
Supply Pressure Variation - psig (kPa) For Supply Pressure Change - psig (kPa)	< 0.1 (< 0.7) 100 psig (700 kPa)	< 0.1 (< 0.7) % Vacuum Change	Not Applicable	< 0.1 (< 0.7) 100 psig (700 kPa)
Maximum Supply Pressure - psig (kPa)	250 (1700)	Minimum 30 inHg (762 Torr) to "Full" Vacuum	Minimum 30 inHg (762 Torr) to "Full" Vacuum	250 (1700)
Dimensions (Approx.) - Inches (mm)	Dia. 3" H 8" (Dia. 76 H 165)	Dia. 3" H 6½" (Dia. 76 H 165)	Dia. 3" H 6½" (Dia. 76 H 165)	Dia. 3" H 8" (Dia. 76 H 165)
Output Pressure Range - psig (kPa)	Vacuum-2 (Vacuum-15) Vacuum-10 (Vacuum-70) Vacuum-30 (Vacuum-200) Vacuum-100 (Vacuum-700) Vacuum-150 (Vacuum-1000)	0-5 inHg (127 Torr) 0-15 inHg (381 Torr) 0-30 inHg (762 Torr)	4 inHg (140 mBar) 20 inHg (700 mBar) 30 inHg (1000 mBar)	Vacuum-10 (Vacuum-70) Vacuum-30 (Vacuum-200) Vacuum-150 (Vacuum-1000)
Port Size (NPT, BSPT or BSPP)	¼", ⅜", ½"	¼", ⅜", ½"	¼", ⅜", ½"	⅜", ½", ¾"

[4] - at 29 inHg of vacuum with inlet port open

	Miniature Regulators		
	70B	**72**	**55**
Flow Capacity - SCFM (m^3/hr) @ Supply Pressure of 100 psig (700 kPa)	2.5 (4.25)	2.5 (4.25)	9 (17)
Exhaust Capacity - SCFM (m^3/hr) Downstream pressure 5 psig (35 kPa) above 20 psig (150 kPa) set point	0.28 (0.48)	0.28 (0.48)	2 (3.4)
Sensitivity - inches of WC (cm of WC)	Not Applicable	Not Applicable	Not Applicable
Supply Pressure Variation - psig (kPa) For Supply Pressure Change - psig (kPa)	< 0.05 (< 0.35) 5 psig (35 kPa)	< 0.05 (< 0.35) 5 psig (35 kPa)	< 0.1 (< 0.7) 10 psig (70 kPa)
Maximum Supply Pressure - psig (kPa)	250 (1700)	300 (2000)	150 (1000)
Dimensions (Approx.) - Inches (mm)	Dia. ¾" H 3 3/16" (Dia. 22 H 81)	Dia. 1" H 3 3/16" (Dia. 25.4 H 81)	1½"x 1½" x 4¼" (38 x 38 x 108)
Output Pressure Range - psig (kPa)	0-5 (0-35) 0-15 (0-100) 0.5-30 (3.5-200) 1-60 (7-400) 2-100 (15-700)	0-5 (0-35) 0-15 (0-100) 0.5-30 (3.5-200) 1-60 (7-400) 2-100 (15-700)	0-10 (0-70) 0.5-30 (3.5-200) 1-60 (7-400) 2-100 (15-700)
Port Size (NPT, BSPT or BSPP)	1/16" (NPT only), M5 x 0.8	1/16" (NPT only), M5 x 0.8	⅛" (NPT only)

Product Specifications – High Precision Pressure Regulators

	Back Pressure Regulators				
	11BP	**10BP**	**30BP**	**4000ABP**	**66BP**
Flow Capacity - SCFM (m^3/hr) @ Upstream Pressure of 100 psig (700 kPa)	20 (34)	40 (68)	40 (68)	150 (255)	22 (37.4)
Exhaust Capacity - SCFM (m^3/hr) Downstream pressure 5 psig (35 kPa) above 20 psig (150 kPa) set point	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Sensitivity - inches of WC (cm of WC)	0.05 (0.127)	0.125 (0.32)	0.25 (0.63)	0.5 (1.27)	1.0 (2.54)
Supply Pressure Variation - psig (kPa) For Supply Pressure Change - psig (kPa)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Maximum Inlet Pressure - psig (kPa)	150 (1000)	300 (2100)[6]	250 (1700)	250 (1700)	500 (3500)
Dimensions (Approx.) - Inches (mm)	Dia. 5¼" H 7 3/32" (Dia. 133 H 180)	Dia. 3" H 6½" (Dia. 76 H 165)	2½"x 1¾" x 5¼" (57 x 44 x 133)	Dia. 4½" H 8" (Dia. 114 H 203)	Dia. 3" H 6¼" (Dia. 76 H 159)
Output Pressure Range - psig (kPa)	0-0.5 (0-3.5) 0-2 (0-15) 0-4 (0-30) 0-6 (0-40) 0-12 (0-80)	0-2 (0-15) 0-10 (0-70) 1-20 (7-150) 0.5-30 (3-200) 1-60 (7-400) 2-150 (15-1000) 3-200 (20-1500) 5-300 (35-2100)[6] 5-400 (35-2800)[6]	0-2 (0-15) 0-10 (0-70) 0.5-30 (3-200) 1-60 (7-400) 2-100 (15-700)	0.5-10 (3.5-70) 0.5-30 (3.5-200) 1-60 (7-400) 2-150 (15-1000) 5-250 (35-1700)	0-10 (0-70) 0.5-30 (3-200) 1-60 (7-400) 2-100 (15-700) 2-150 (20-1000)
Port Size (NPT, BSPT or BSPP)	¼", ⅜", ½"	¼", ⅜", ½"	¼", ⅜"	⅜", ½", ¾"	¼", ⅜", ½"

[6] - Maximum Inlet Pressure for 5-300 and 5-400 psig ranges is 500 psig (3500 kPa)

Product Specifications – General Purpose Regulators and Air Filters

Stainless Steel Pressure Reducing Regulators

	Standard Pressure	High Pressure Regulators		
	66	**HPD**	**HPP**	**HPH**
Flow Capacity - SCFM (m3/hr) @ Supply Pressure of 100 psig (700 kPa)	17 (28.9)	Cv 0.06 or Cv 0.25	Cv 0.06	Cv 0.09
Exhaust Capacity - SCFM (m3/hr) Downstream pressure 5 psig (35 kPa) above 20 psig (150 kPa) set point	1.0 (1.7)	Cv 0.02	Cv 0.02	Cv 0.11
Sensitivity - inches of WC (cm of WC)	1.0 (2.54)	Not Applicable	Not Applicable	Not Applicable
Supply Pressure Variation - psig (kPa) **For Supply Pressure Change - psig (kPa)**	< 0.1 (< 0.7) 25 psig (172 kPa)	< 0.6 (< 4) 100 psig (700 kPa)	< 55 (< 380) 1000 psig (7000 kPa)	< 85 (< 586) 1000 psig (7000 kPa)
Maximum Supply Pressure - psig (kPa)	500 (3500)	6000 (41400)	6000 (41400)	10000 (68950)
Dimensions (Approx.) - Inches (mm)	Dia. 3" H 6¼" (Dia. 76 H 159)	Dia 2¼" x H 5⅜" (Dia 60 H 137)	Dia 2¼" x H 5⅜" Dia 60 H 137	Dia 3" x H 8 3/32" Dia 76 x 205
Output Pressure Range - psig (kPa)	0-10 (0-70) 0.5-30 (3-200) 1-60 (7-400) 2-100 (15-700) 2-150 (20-1000)	0-25 (0-172) 0-50 (0-344) 1-100 (7-700) 2-250 (15-1700) 2-500 (15-3500)	0-1000 (0-6895) 0-2000 (0-13790) 0-3000 (15-20685)	0-500 (0-3450) 0-1000 (0-6895) 0-1500 (0-10350) 0-3000 (0-20685) 0-5000 (0-34475) 0-10000 (0-68950)
Port Size (NPT, BSPT or BSPP)	¼", ⅜", ½"	¼" or SAE AS5202-4	¼" or SAE AS5202-4	¼" or SAE AS5202-4
Body Material	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel

General Purpose Air Filters and Filter Regulators

	Filter Regulators			Filters	
	63	**65**	**C Series**	**F Series**	**D Series**
Filter Type	Particulate	Particulate	Particulate	Particulate	Coalescing
Filtering Element	5 microns	5 microns	5 microns	5 microns	0.5 microns, 0.01 microns or 0.003 microns
Flow Capacity - SCFM (m^3/hr) @ Supply Pressure of 100 psig (700 kPa)	25 (42.5)	25 (42.5)	42 - 175 (71 - 297)	25 - 165 (42 - 280)	11 - 98 (18 - 166)
Exhaust Capacity - SCFM (m^3/hr) Downstream pressure 5 psig (35 kPa) above 20 psig (150 kPa) set point	0.8 (1.36)	0.8 (1.36)	N/A	N/A	N/A
Sensitivity - inches of WC (cm of WC)	1.0 (2.54)	1.0 (2.54)	N/A	N/A	N/A
Supply Pressure Variation - psig (kPa) **For Supply Pressure Change - psig (kPa)**	< 1.25 (< 9) 100 psig (700 kPa)	< 1.25 (< 9) 100 psig (700 kPa)	N/A	N/A	N/A
Maximum Supply Pressure - psig (kPa)	300 (2100)	300 (2100)	250 (1700)	150 (1000)	150 (1000)
Dimensions (Approx.) - Inches (mm)	Dia. 3" x 7¾" (Dia. 76 x 197)	Dia 3"x 7¾" (Dia 98 x 145)	Varies by model	Varies by model	Varies by model
Output Pressure Range - psig (kPa)	0.5-30 (3-200) 1-60 (7-400) 2-120 (15-800)	0.5-30 (3-200) 1-60 (7-400) 2-120 (15-800)	0-125 (0-860) 0-250 (0-1700)	N/A	N/A
Port Size (NPT, BSPT or BSPP)	¼"	¼"	¼", ⅜", ½" or ¾"	¼", ⅜", ½" or ¾"	¼", ⅜", ½" or ¾"

Product Specifications – Volume Boosters

	Industrial Process Volume Boosters				
	20	**4500A**	**4900A**	**200**	**200XLR**
Flow Capacity - SCFM (m^3/hr) @ Supply Pressure of 100 psig (700 kPa)	45 (76.5)	150 (255)	500 (850)	1500 (2550)	1500 (2550)
Exhaust Capacity - SCFM (m^3/hr) Downstream pressure 5 psig (35 kPa) above 20 psig (150 kPa) set point	7.5 to 11 (12.8 to 18.7) Varies with ratio	40 (65.2)	100 (170)	65 (110.5)	325 (552.5)
Sensitivity - inches of WC (cm of WC)	0.25 to 1.50 (0.64 to 3.8) Varies with Ratio	1.0 to 3.0 (2.54 to 7.62) Varies with Ratio	0.25 (0.64)	1.0 (2.54)	1.0 (2.54)
Supply Pressure Variation - psig (kPa) **For Supply Pressure Change - psig (kPa)**	0.1 to 0.60 (0.7 to 4.0) Varies with Ratio	0.1 to 0.60 (0.7 to 4.0) Varies with Ratio	< 0.1 (< 0.7) 100 psig (700 kPa)	< 0.5 (< 3.5) 100 psig (700 kPa)	< 0.5 (< 3.5) 100 psig (700 kPa)
Maximum Supply Pressure - psig (kPa)	250 (1700)	250 (1700)	250 (1700)	250 (1700)	250 (1700)
Maximum Signal/Output Pressure - psig (kPa)	Varies (See Data Sheet)	Varies (See Data Sheet)	150 (1000)	150 (1000)	150 (1000)
Dimensions (Approx.) - Inches (mm)	Dia 3" H 4¼" (Dia 76 H 114)	Dia. 4½" H 5¼" (Dia. 114 H 133)	Dia. 6½" H 8" (Dia. 165 H 204)	Dia. 5 ½" H 7⅞" (Dia. 140 H 200)	9½" x 5½" x 9 ¾" (241 x 140 x 248)
Signal / Outuput Ratio Available	1:1, 1:2, 1:3, 1:4, 1:5, 1:6, 2:1, 3:1, 4:1, 5:1	1:1, 1:2, 1:3, 2:1, 3:1	1:1	1:1	1:1
Port Size (NPT, BSPT or BSPP)	¼", ⅜", ½"	⅜", ½", ¾"	¾", 1"	1", 1½"	1½"

	Back Pressure		Valve Automation Volume Boosters			
	20BP	**4500ABP**	**20I**	**4500AI**	**4800A**	**200XLRI**
Flow Capacity - SCFM (m^3/hr) @ Supply Pressure of 100 psig (700 kPa)	45 (76.5)	150 (255)	Cv 0.91 to Cv 0.95	Cv 2 to Cv 3	Cv 5 to Cv 9	Cv 18
Exhaust Capacity - SCFM (m^3/hr) Downstream pressure 5 psig (35 kPa) above 20 psig (150 kPa) set point	Not Applicable	Not Applicable	Cv0.26	Cv 2 to Cv 3.5	Cv 5 to Cv 9	Cv 18
Sensitivity - inches of WC (cm of WC)	0.25 to 0.75 (0.64 to 1.92) Varies with Ratio	1.0 (2.54)	Adjustable by By-Pass Valve	Adjustable by By-Pass Valve	Adjustable by By-Pass Valve	Adjustable by By-Pass Valve
Supply Pressure Variation - psig (kPa) **For Supply Pressure Change - psig (kPa)**	Not Applicable	Not Applicable	< 0.1 (< 0.7) 100 psig (700 kPa)	< 0.1 (< 0.7) 100 psig (700 kPa)	< 0.1 (< 0.7) 100 psig (700 kPa)	< 0.5 (< 3.5) 100 psig (700 kPa)
Maximum Supply Pressure - psig (kPa)	250 (1700)	250 (1700)	250 (1700)	250 (1700)	250 (1700)	250 (1700)
Maximum Signal/Output Pressure - psig (kPa)	Varies (See Data Sheet)	Varies (See Data Sheet)	150 (1000)	150 (1000)	150 (1000)	150 (1000)
Dimensions (Approx.) - Inches (mm)	Dia 3" H 4¼" (Dia 76 H 114)	Dia. 4½" H 5¼" (Dia. 114 H 133)	Dia 3" H 4¼" (Dia 76 H 114)	Dia. 4½" H 5¼" (Dia. 114 H 133)	Dia. 6½" H 8" (Dia. 165 H 204)	9½" x 5½" x 9 ¾" (241 x 140 x 248)
Signal / Outuput Ratio Available	1:1, 1:2, 1:3	1:1	1:1	1:1	1:1	1:1
Port Size (NPT, BSPT or BSPP)	¼", ⅜", ½"	⅜", ½", ¾"	¼", ⅜", ½"	⅜", ½", ¾"	¾", 1"	1½"

Product Specifications – Pneumatic Relays

	Pos./Negative Bias	Positive Bias		Adjustable Ratio	Pneum. Computing	Snap Acting
	14	15	1500A	21	22	24
Flow Capacity - SCFM (m3/hr) @ Supply Pressure of 100 psig (700 kPa)	40 (68)	40 (68)	150 (255)	40 (68)	2 (3.4)	14 (23.8)
Exhaust Capacity - SCFM (m3/hr) Downstream pressure 5 psig (35 kPa) above 20 psig (150 kPa) set point	5.5 (9.4)	5.5 (9.4)	40 (68)	5.5 (9.4)	Note 1	14 (23.8)
Sensitivity - inches of WC (cm of WC)	0.5 (1.27)	0.25 (0.64)	0.5 (1.27)	0.25 (0.64)	Note 1	0.2 (0.51) to 0.5 psig (3.45 kPa)
Maximum Supply Pressure - psig (kPa)	250 (1700)	250 (1700)	250 (1700)	250 (1700)	150 (1000)	120 (800)
Maximum Signal Pressure - psig (kPa)	150 (1000)	150 (1000)	150 (1000)	150 (1000)	50 (350)	120 (800)
Maximum Output Pressure - psig (kPa)	150 (1000)	150 (1000)	150 (1000)	150 (1000)	50 (350)	120 (800)
Dimensions (Approx.) - Inches (mm)	Dia 3"H 8" (Dia 76 H 203)	Dia 3" H 7" (Dia 76 H 177)	Dia. 4½" H 8½" (Dia. 114 H 216)	9⅞" x 3⅝" x 4⅞" (251 x 92 x 124)	Dia 3"H 9" (Dia 76 H 229)	Dia 3" H 8½" (Dia 76 H 216)
Port Size (NPT, BSPT or BSPP)	¼", ⅜", ½"	¼", ⅜", ½"	⅜", ½", ¾"	¼", ⅜"	¼", ⅜"	¼", ⅜", ½"

Note 1: Multiple configurations allowing up to 4 inputs plus positive and negative biasing over a broad range, designed for multiple functions such as Averaging, Differential, Inverting, Totalising and On/Off

	Reversing	2-stage Biasing	Low Pressure Selector	High Pressure Selector
	25	85D	90	91
Flow Capacity - SCFM (m3/hr) @ Supply Pressure of 100 psig (700 kPa)	40 (68)	14 (23.8)	Note 2	Note 2
Exhaust Capacity - SCFM (m3/hr) Downstream pressure 5 psig (35 kPa) above 20 psig (150 kPa) set point	11 (18.7)	2.5 (4.25)	Note 2	Note 2
Sensitivity - inches of WC (cm of WC)	0.13 (0.32)	Not Applicable	Note 2	Note 2
Maximum Supply Pressure - psig (kPa)	250 (1700)	250 (1700)	Note 2	Note 2
Maximum Signal Pressure - psig (kPa)	150 (1000)	150 (1000)	200 (1400)	200 (1400)
Maximum Output Pressure - psig (kPa)	150 (1000)	150 (1000)	200 (1400)	200 (1400)
Dimensions (Approx.) - Inches (mm)	Dia 3"H 7 ½" (Dia 76 H 191)	1¾" x 1¾" x 5" (44 x 44 x 127)	Dia 3" H 1¾" (Dia 76 H 44)	Dia 3" H 1¾" (Dia 76 H 44)
Port Size (NPT, BSPT or BSPP)	¼", ⅜, ½"	⅛", ¼", ⅜"	¼" (NPT only)	¼" (NPT only)

Note 2: Switching Differential: +0.1 psid (,0.7); maximum differential between signals: 100 psid (700)

Product Specifications – Transducers

	Industrial Process Transducers					
	I/P, E/P Converters, Proportional Pressure Valves					
	T5700	**T6000**	**T6100**	**T7500**	**T7800**	**T9000**
Flow capacity - SCFM (m^3/hr) @ Supply Pressure of 120 psig (800 kPa)	47 (79.9)	9 (15.3)	5 (8.5)	7 (11.9)	9 (15.3)	2 to 700 (3.4 to 1190) Varies by model
Exhaust Capacity - SCFM (m^3/hr) Downstream pressure 5 psig (35 kPa) above 9 psig (62 kPa) set point	< 9 (15.3)	2 (3.4)	< 2 (3.4)	1.8 (3.1)	2 (3.4)	1 to 350 (1.7 to 595) Varies by model
Output Pressure Ranges - psig (kPa)	3-15 (20-100)	3-15 (20-100) 3-27 (20-180) 6-30 (40-200) 0-30 (0-200) 0-60 (0-400) 0-120 (0-800)	3-15 (20-100)	0-2.5 (0-17) 0-5 (0-35) 0-7.5 (0-50) 0-15 (0-100)	3-15 (20-100) 3-27 (20-180) 6-30 (40-200) 0-30 (0-200) 0-60 (0-400) 0-120 (0-800)	0-30 (0-200) 0-75 (0-500) 0-150 (0-1000) Programmable by parameters
Maximum Air Consumption - SCFH (m^3/hr)	3 (0.08)	5.0 to 17.0 (0.14 to 0.48) Varies with model	5 (0.14)	0.06 to 0.36 (0.01 to 0.08) Varies with model	5.0 to 15.0 (0.14 to 0.42) Varies with model	0 at steady state
Accuracy (% F.S.)	±0.5% Independent Linearity	±0.5 to 1.0% Independent Linearity (Varies with model)	±0.5%	±0.25% (±0.15% Typical)	±0.15% (Typical)	±0.5 %
Repeatability (% F.S.)	< 0.1%	0.25 to < 1.0 % (Varies with model)	0.25%	< 0.1 %	< 0.1 %	< 0.1 %
Supply Pressure	18-150 (120-1000)	20-150 (140-1000)	20-150 (140-1000)	20-30 (140-200)	20-150 (140-1000)	200 (1400)
Supply Voltage	Signal Powered	Signal Powered	Signal Powered	Signal Powered for Current Input; 8 to 30 VDC for Voltage Input	Signal Powered for Current Input; 8 to 30 VDC for Voltage Input	24 VDC
Input Signal	4-20 mA 10-50 mA 1-5 VDC 1-9 VDC	4-20 mA 10-50 mA 0-5 VDC 0-10 VDC 1-5 VDC 1-9 VDC	4-20 mA	4-20 mA 0-5 VDC 0-10 VDC	4-20 mA 10-50 mA 0-5 VDC 0-10 VDC 1-5 VDC 1-9 VDC	4-20 mA 0-10 VDC Programmable by parameters
Agency Approvals	CE	F, C, E, CE	CE	CE	F, C, E, CE	CE
Dimensions (Approx.) - Inches (mm)	Dia 3" H 6½" (Dia 76 H 165)	1½" x 3⅛"x 3¾" (38 x 79 x 95)	2½" x 2½"x 6½" (64 x 64 x 165)	1½" x 3⅛"x 3¾" (38 x 79 x 95)	1½" x 3⅛"x 3¾" (38 x 79 x 95)	Varies by Model (see Data Sheet)
Port Size (NPT, BSPT)	¼"	¼"	¼"	¼"	¼"	¼", ⅜", ½", ¾" or 1"

F = FM, Factory Mutual

CE = CONFORMITÉ EUROPÉENNE

E = ATEX, IECx

C = CSA, Canadian Standards

Product Specifications – Transducers

	Explosion Proof Transducers		Pressure Transmitters
	I/P Converters		P/I Converters
	TXI7800	TXI7850	T8000
Flow capacity - SCFM (m^3/hr) @ Supply Pressure of 120 psig (800 kPa)	9 (15.3)	9 (15.3)	–
Exhaust Capacity - SCFM (m^3/hr) Downstream pressure 5 psig (35 kPa) above 9 psig (62 kPa) set point	2 (3.4)	2 (3.4)	–
Output Pressure Ranges - psig (kPa)	3-15 (20-100) 3-27 (20-180) 6-30 (40-200) 0-30 (0-200) 0-60 (0-400) 0-120 (0-800)	3-15 (20-100) 3-27 (20-180) 6-30 (40-200) 0-30 (0-200) 0-60 (0-400) 0-120 (0-800)	–
Input Pressure Range - psig (kPa)	–	–	0-5 (0-35) 3-15 (20-100) 3-27 (20-180) 6-30 (40-200) 0-30 (0-200) 0-60 (0-400) 1-120 (0-800)
Maximum Air Consumption - SCFH (m^3/hr)	5.0 to 15.0 (0.14 to 0.42) Varies with model	5.0 to 15.0 (0.14 to 0.42) Varies with model	
Accuracy (% F.S.)	±0.15% (Typical)	±0.15% (Typical)	± 0.15% Independent Linearity
Repeatability (% F.S.)	< 0.1%	< 0.1%	< 0.1%
Supply Pressure	20-150 (140-1000)	20-150 (140-1000)	
Supply Voltage	Signal Powered	Signal Powered	12-50 VDC for 4-20 mA or 12-30 VDC for 10-50 mA
Input Signal	4-20 mA	4-20 mA	–
Output Signal	–	–	4-20 mA 10-50 mA
Agency Approvals	F, C, E, CE	F, C, CE	F, CE
Dimensions (Approx.) - Inches (mm)	1½" x 3⅛"x 3¾" (38 x 79 x 95)	1½" x 3⅛"x 3 ¾" (38 x 79 x 95)	1½" x 3⅛"x 3¾" (38 x 79 x 95)
Port Size (NPT, BSPT)	¼"	¼"	¼"

F = FM, Factory Mutual

CE = CONFORMITÉ EUROPÉENNE

E = ATEX, IECx

C = CSA, Canadian Standards

Product Specifications – Motorized Automation Regulators

	Vacuum	Low pressure		Standard (Pneumatic) Pressure	
	PAX1 with Model 16	**PAX1 with Model 11**	**PAX1 with Model 4100A**	**PAX1 with Model 10**	**PAX1 with Model 4000A**
Flow Capacity - SCFM (m^3/hr) Supply = 100 psi	2.5 (4) @ Vacuum[1] or 40 (68) Positive Flow	20 (34)	25 (42)	40 (68)	150 (255)
Exhaust Capacity - SCFM (m^3/hr)	5.5 (9.4)	0.5 (0.85)[2]	1.5 (2.55)[2]	5.5 (9.4)	40 (65.2)
Sensitivity - inches of WC (cm of WC)	0.5 (1.27)	0.05 (0.127)	0.05 (0.127)	0.125 (0.32)	0.5 (1.27)
Supply Pressure Variation - psig (kPa) For Supply Pressure Change - psig (kPa)	< 0.1 (< 0.7) 100 psig (700 kPa)	< 0.01 (< 0.07) 100 psig (700 kPa)	< 0.01 (< 0.07) 100 psig (700 kPa)	< 0.1 (< 0.7) 100 psig (700 kPa)	< 0.1 (< 0.7) 100 psig (700 kPa)
Maximum Supply Pressure - psig (kPa)	250 (1700)	150 (1000)	150 (1000)	500 (3500)	250 (1700)
Dimensions (Approx.) - Inches (mm)	Dia. 6.93" x 13.71" (Dia. 176 x 368)	Dia. 6.93" x 14.47" (Dia. 176 x 368)	Dia. 8.5" x 15.26" (Dia. 216 x 388)	Dia. 6.93" x 13.71" (Dia. 176 x 349)	Dia. 6.93" x 15.26" (Dia. 176 x 388)
Output Pressure Range - psig (kPa)	Vacuum-2 (Vacuum-15) Vacuum-10 (Vacuum-70) Vacuum-30 (Vacuum-200) Vacuum-100 (Vacuum-700) Vacuum-150 (Vacuum-1000)	0-0.5 (0-3.5) 0-2 (0-15) 0-4 (0-30) 0-6 (0-40) 0-12 (0-80)	0-0.7 (0-4.8) 0-1.4 (0-9.7) 0-3 (0-21) 0-5 (0-35)	0-2 (0-15) 0-10 (0-70) 1-20 (7-150) 0.5-30 (3-200) 1-60 (7-400) 2-150 (15-1000) 3-200 (20-1500) 5-300 (35-2100) 5-400 (35-2800)	0.5-10 (3.5-70) 0.5-30 (3.5-200) 1-60 (7-400) 2-150 (15-1000) 5-250 (35-1700)
Port Size	¼", ⅜", ½"	¼", ⅜", ½"	⅜", ½", ¾"	¼", ⅜", ½"	⅜", ½", ¾"
Body Material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium

[1] - at 29 inHg of vacuum with inlet port open
[2] - Downstream pressure is 0.1 psig (0.7 kPa) above 1.0 psig (7 kPa) set point

PAX1 installed on natural gas pipeline, as a pilot for the Control Valve

Product Specifications – Motorized Automation Regulators

	Standard (Pneumatic) Pressure		High Pressure	
	PAX1 with Model 81	**PAX1 with Model 66**	**PAX1 with Model HPD**	**PAX1 with Model HPP**
Flow Capacity - SCFM (m^3/hr) Supply = 100 psi	50 (85)	17 (28.9)	Cv 0.06 or Cv 0.25	Cv 0.06
Exhaust Capacity - SCFM (m^3/hr)	5.5 (9.4)	1.0 (1.7)	Cv 0.02	Cv 0.02
Sensitivity - inches of WC (cm of WC)	< 0.1 (< 0.254)	1.0 (2.54)	Not Applicable	Not Applicable
Supply Pressure Variation - psig (kPa) **For Supply Pressure Change - psig (kPa)**	< 0.2 (< 1.4) 100 psig (700 kPa)	< 0.1 (< 0.7) 25 psig (172 kPa)	< 0.6 (< 4) 100 psig (700 kPa)	< 55 (< 380) 1000 psig (7000 kPa)
Maximum Supply Pressure - psig (kPa)	150 (1000)[3]	500 (3500)	6000 (41400)	6000 (41400)
Dimensions (Approx.) - Inches (mm)	Dia. 6.93" x 13.71" (Dia. 176 x 365)	Dia. 6.93" x 13.71" (Dia. 176 x 349)	Dia. 6.93" x 12.81" (Dia. 176 x 326)	Dia. 6.93" x 12.81" (Dia. 176 x 326)
Output Pressure Range - psig (kPa)	0-2 (0-15)[3] 0-5 (0-35)[3] 0-20 (0-150) 0.5-60 (3.5-400) 0.5-100 (3.5-700)	0-10 (0-70) 0.5-30 (3-200) 1-60 (7-400) 2-100 (15-700) 2-150 (20-1000)	0-25 (0-172) 0-50 (0-344) 1-100 (7-700) 2-250 (15-1700) 2-500 (15-3500)	0-1000 (0-6895) 0-2000 (0-13790) 0-3000 (15-20685)
Port Size	¼"	¼", ⅜", ½"	¼" or SAE AS5202-4	¼" or SAE AS5202-4
Body Material	Aluminium	Stainless Steel	Stainless Steel	Stainless Steel

[3] - Maximum Supply Pressure for 0-2 & 0-5 psig ranges is 100 psig (700 kPa)
For the Electric Actuator Specifications, please see our catalog PUB136-001

PAX1 installed on solar powered remote pressure control, station. Low power consumption, Modbus communication and Configurable operating modes enables unmanned control of the distributed Natural Gas Pressure

Product Specifications – Electric Actuators

	PAX1	**PAXL**
Electrical Supply	11-30 VDC	11-30 VDC
Control Methods	**Analog Control** 4-20 mA	**Analog Control** 4-20 mA
	Pulse Control Switch closure (2) UP & DN, 4-30 VDC loop isolated from supply	**Pulse Control** Switch closure (2) UP & DN, 4-30 VDC loop isolated from supply
	Modbus Comm. 2-wire RS485 network for direct communication to a PLC or DCS using Modbus RTU protocol	**Modbus Comm.** 2-wire RS485 network for direct communication to a PLC or DCS using Modbus RTU protocol
Thrust Rod Style	Unidirectional (Push) Rotating Rod	Bi-directional (Push & Pull), Non-rotating Rod, M8 x 1.25 mm Female Thread
Maximum Stroke	1" (25 mm)	1" (25 mm)
Mounting Interface	ISO 5211 - F07	ISO 5211 - F07
Accuracy	+/- 1% of Maximum Stroke	+/- 1% of Maximum Stroke
Maximum Force	2,890 N (650 lbf)	2,890 N (650 lbf)
Maximum Linear Speed	60 mm/min* *at lower supply voltages, slower motor speed may be required to reach maximum force	60 mm/min* *at lower supply voltages, slower motor speed may be required to reach maximum force
Operating Temperature Rating	-40 to +80 °C (-40 to +176 °F) intermittent duty -40 to +70 °C (-40 to +158 °F) continuous duty	-40 to +80 °C (-40 to +176 °F) intermittent duty -40 to +70 °C (-40 to +158 °F) continuous duty
Analog Feedback	4-20 mA, isolated from supply	4-20 mA, isolated from supply
EMC Testing	Testing per IEC/EN 61326-1	Testing per IEC/EN 61326-1
Hazardous Area Ratings	**FM Approval** Class I Div I Groups ABCD T5/T6 Class II, III Div I Groups EFG T5/T6 Class 1, Zone 1, AEx db IIC, T5/T6 Gb Zone 21, AEx tb IIIC T85°C /100°C Db T6[T85°C]: Ta = -40 to +65 °C T5[T100°C]: Ta = -40 to +70 °C Type 4X/6P, IP 66/68	**FM Approval** Class I Div I Groups ABCD T5/T6 Class II, III Div I Groups EFG T5/T6 Class 1, Zone 1, AEx db IIC, T5/T6 Gb Zone 21, AEx tb IIIC T85°C /100°C Db T6[T85°C]: Ta = -40 to +65 °C T5[T100°C]: Ta = -40 to +70 °C Type 4X/6P, IP 66/68
	CSA Approval Class I Div I Groups BCD T5/T6 Class II, III Div I Groups EFG T5/T6 Ex db IIC, T5/T6 Gb Ex tb IIIC T85°C /100°C Db T6[T85°C]: Ta = -40 to +65 °C T5[T100°C]: Ta = -40 to +70 °C IP 66/68	**CSA Approval** Class I Div I Groups BCD T5/T6 Class II, III Div I Groups EFG T5/T6 Ex db IIC, T5/T6 Gb Ex tb IIIC T85°C /100°C Db T6[T85°C]: Ta = -40 to +65 °C T5[T100°C]: Ta = -40 to +70 °C IP 66
	ATEX Approval Ex db IIC, T5/T6 Gb Ex tb IIIC T85°C /100°C Db Ex II 2GD T6[T85°C]: Ta = -40 to +65°C T5[T100°C]: Ta = -40 to +70°C IP 66/68	**ATEX Approval** Ex db IIC, T5/T6 Gb Ex tb IIIC T85°C /100°C Db Ex II 2GD T6[T85°C]: Ta = -40 to +65°C T5[T100°C]: Ta = -40 to +70°C IP 66

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Rotork products are recognised as the best-in-class for reliability and safety in the most demanding applications. To maintain this hard-earned leadership position, Rotork is committed to helping clients maximise the continuous, fault-free operation and working life of all their actuators.

With established worldwide service centres we are able to offer same-day or next-day service to the majority of our customers. Our Rotork factory trained engineers have skills in both multi-purpose and industry specific applications and carry spare parts and specialist test equipment with them. Our operations utilise a documented Quality Management system established in accordance with ISO9001.

Rotork aims to be your number one choice for taking care of fault diagnosis, service repairs, scheduled maintenance and system integration needs.

See PUB056-013 for further details.

Rotork has expertise and specialist knowledge of every aspect of flow control.

Our service solutions increase plant efficiency and reduce maintenance costs.

Workshop services return equipment to as-new condition.

Client Support and Site Services

Global Service and Support

Rotork understands the value of prompt and punctual customer site services and aims to supply our customers with superior flow control solutions, by providing high quality, innovative products and superior service – ***on time, every time.***

Whether you have an actuator requiring on-site servicing, a custom design service requirement or a new actuator installation, we can deliver the fastest turnaround with the least plant disruption.

Accreditation and Assurance

Rotork is accredited with all major safety authorities around the world, providing our clients with reassurance and peace of mind.

Rotork's engineering teams are experts in the design and implementation of actuation solutions for all circumstances and environments. Our global knowledge base draws upon previous installations and environmental situations.

Our track record and commitment to undertaken engineering projects is second to none. Rotork is trusted by major utility and industrial companies to design, install and maintain their actuation stock. We keep their plants operating at peak efficiency, helping them to be more profitable and at the same time meet ever tightening industry watchdog requirements.

Using accredited project managers we have the knowledge and expertise to design, build and install any standard or custom actuator installation for you, on time and in budget.

Asset Management

Rotork is a corporate member of the Institute of Asset Management, the professional body for whole life management of physical assets.

Institute of Asset Management iAM CORPORATE MEMBER

Giving You Peace of Mind, Guaranteed Quality and Improving Your Site Efficiency

rotork LIFECYCLE management

RELIABILITY rotork AVAILABILITY

Actuator Workshop Overhaul

- Supporting Rotork and non-Rotork products
- Workshop facilities including torque testing and re-coating
- Large OEM stock in all workshops
- Fully trained and experienced service engineers
- Loan actuator facilities

Field Support

- Site repairs and commissioning
- Upgrades
- Fault finding and maintenance
- Call-out with fully equipped service vehicles

Client Support Programme (CSP)

- Select a level of service tailored for you – gold, silver or bronze
- Improves production throughput
- Reduces the cost of maintenance year-on-year
- Allows customers to manage the challenge of 'Risk vs Budget' in maintenance operations
- Lifecycle management includes planned and predictive maintenance with a focus on equipment reliability and availability as well as asset management
- Generated reports detail cost savings and performance improvements

Planned Shutdown Support

- Preventative maintenance
- On-site overhaul and testing
- OEM spares and support
- Support for Rotork and non-Rotork products
- Achieve tight shutdown return to service targets
- Project management and supervision

Valve Automation Centres

- Actuator upgrade
- Manual valve automation
- Control and automation
- System integration

Keeping the World Flowing

www.rotork.com

A full listing of our worldwide sales and service network is available on our website.

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As part of a process of on-going product development, Rotork reserves the right to amend and change specifications without prior notice. Published data may be subject to change. For the very latest version release, visit our website at www.rotork.com

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