



A **rotork** Brand

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 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

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 its original operating condition.



Product Specifications – Transducers

Industrial Process Transducers						
I/P, E/P Converters, Proportional Pressure Valves						
						
	T5700	T6000	T6100	T7500	T7800	T9000
Flow capacity - SCFM (m³/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 (m³/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 (m³/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

