Electro-Pneumatic Transducers






	T5700 High Flow Voice Coil I/P, E/P	T6000 Voice Coil I/P, E/P	T6100 Lock in Last Position I/P	T7800 Piezo Ceramic I/P, E/P	TXI7800 TXI7850 Explosion-Proof I/P, E/P	T9000 High Flow Digital I/P, E/P
Max Flow Capacity: SCFM (m^3/HR)	47 (79.9) Supply =120 psig	9 (15.3) Supply =120 psig	5.0 (8.5) Supply = 21 psig	9 (15.3) Supply =120 psig	9 (15.3) Supply =120 psig	2 - 500 (3.4 - 858)
Output Pressure: PSIG (kPa)	3–15 (20–100)	3–15, 0–120 (20–100), (0–800) 6 ranges	3-15 (20-100)	3–15, 0–120 (20–100), (0–800) 6 ranges	3–15, 3-27, 6-30 (20–100), (20-180), (40-200)	0-30, 0-75, 0–150 (0–200), (0-500),
Exhaust Capacity: SCFM (m^3/HR) Downstream pressure 5 psig above 9 psig setpoint	< 9 (15.3)	2 (3.4)	2 (3.4)	2 (3.4)	2 (3.4)	2 - 100 (3.4 - 170)
Max Air Consumption: SCFH (m^3/HR)	3 (.08)	5.0 to 17.0 (0.14) to (0.48) Varies with model	5.0 (0.14)	5.5 to 15.0 (0.16) to (0.42) Varies with model	13.5 (0.38)	0 @ steady state
Accuracy: % FS	±0.5 Independent Linearity	0.5 to 1.0 Independent Linearity Varies with model	0.5	±0.15 (typical)	±0.15	±0.5
Repeatability: % FS	<0.1	0.25 to <1.0	.025	<0.1	<0.1	<0.1
Supply Pressure: PSIG (kPa)	18–150 (120–1000)	20–150 (150–1000)	20-40 (150-280)	20–150 (150–1000)	20–120 (150–800) Maximum	200 (1400) Maximum
Supply Voltage: DC	Signal Powered	Signal Powered	Signal Powered	Current Input Signal Powered Voltage Input 7.2–30 VDC	Signal Powered	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 DC, 0–10 VDC, 1–9 VDC 1-5, 0-5 VDC Limited Availability	4-20 mA	4-20 mA, 0-10 VDC
Pipe Size	1/4"	1/4"	1/4"	1/4"	1/4"	1/4, 3/8, 1/2"
Underwriting Group Approvals: *	CE	F, C, E, CE	F, CE	F, C, E, CE	A, F, C, E, CE	CE
Dimensions (Aprx.) Inches (mm)	Dia. 3 H 6 1/2 (Dia. 76 H 165)	1 1/2 x 3 1/8 x 3 3/4 (38 x 79 x 95)	2 1/2 x 2 1/2 x 6 1/2 (64 x 64 x 165)	1 1/2 x 3 1/8 x 3 3/4 (38 x 79 x 95)	3 11/16 x 3 13/16 x 4 5/8 (94 x 97 x 117.5)	3 x 3 1/8 x 7 3/4 (76 x 79 x 197)

FM APPROVED CSA Ex CE *

A	=	SAA, Australia	E	=	ATEX, IECx*
F	=	FM, Factory Mutual	C	=	CSA, Canadian Standards
CE	=	CONFORMITÉ EUROPEÉNNE	* T7800 Series		

Electro-Pneumatic Transducers

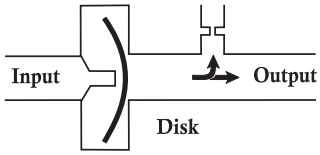
Fairchild transducers are accurate, compact, lightweight, and fast responding. Some models include an analog feedback input option that controls the process variable independent of transducer output. Many models are approved for splash-proof, explosion-proof, and intrinsically safe use. With a large combination of inputs and outputs, we can provide transducers for every application.

Piezo-ceramic Technology

This technology is relatively new to I/P and E/P control. A piezo electric ceramic disk covers an orifice. An electronic signal to the disk causes a deflection that opens or partially closes the orifice. Internal electronic feedback assures precise output pressure control. This technology is extremely resistant to shock, vibration, and changes in position.

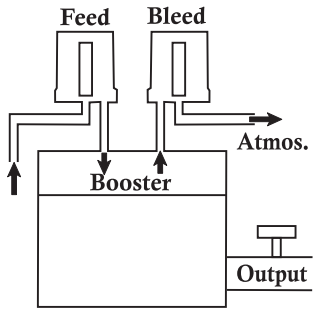
Fairchild's piezo-ceramic technology transducers are:

- T7800
- TX17800
- TX17850



Feed and Bleed Technology

This is the latest type of technology. This system uses microprocessor controlled electro-pneumatic solenoid valves to feed supply pressure to the regulated output and bleed excess pressure to atmosphere. Analog or digital input control signals control the solenoids that monitor and maintain the regulated output. This technology is extremely resistant to shock and vibration.



Fairchild's feed and bleed technology transducers are:

- T9000