Short Form
Catalogue

Precision Pneumatic and Electropneumatic Controls

Current-to-Pressure (I/P) Transducers

Voltage-to-Pressure (E/P) Transducers

Pressure-to-Current (P/I) Transducers

Precision Air Pressure Regulators

Filter Regulators

Volume Boosters

Snap Acting Relays

Bias Relays

Motorized Regulators

Liquid Level Systems

Friction-free Diaphragm Air Cylinders

Custom Engineered Devices

ControlAir Inc.

Volume Boosters/Air Relays

Type 200

Pilot operated, multi-stage 1:1 relay with positive and negative biasing adjustment capability. It accurately and quickly reproduces a signal pressure with consistent repeatability.

- Output control to within 0.1% of full range
- Positive or negative bias up to 30 psig
- High relief capacity model available
- Compact unit
- Available with external bias adjustment (shown)

Precision Air Relay

Flow Capacity SCFM (m3/hr)	14 (25)
Exhaust Capacity SCFM (m3/hr)	
Standard Relief	2.0 (3.4)
High Relief Capacity	10 (17)
Sensitivity Inch wc (mm)	0.125 (3.2)
Supply Pressure Max PSIG (BAR)	150 (10)
Output Pressure Range PSIG (BAR)	2-120 (0.14-8)
Approximate Size (inches)	2.06 x 2.06 x 2.88
Approximate Size (mm)	52 x 52 x 73

Port Size NPT	Max. Output Pressure	Model #
Standard Relief		
1/4	2-120 psig	200-BC
3/8	2-120 psig	200-CC
High Relief Capacity		
1/4	2-120 psig	210-BC
3/8	2-120 psig	210-CC

Type 600

Utilizes a signal pressure to produce an output pressure with high flow capacity. Highly resistant to output variation due to changing flow and supply pressure conditions.

- Flow capacity to 50 SCFM
- Available with 1:1, 1:3 or 1:6 signal to output ratio
- High relief capacity

Volume Booster

Flow Capacity SCFM (m3/hr)	50 (85)
Exhaust Capacity SCFM (m3/hr)	15.0 (26.0)
Sensitivity Inch wc (mm)	0.25 (6.4)
Supply Pressure Max PSIG (BAR)	250 (17)
Output Pressure Range PSIG (BAR)	0-150 (0-10)
Approximate Size (inches)	DIA 3.0 H 3.5
Approximate Size (mm)	DIA 76 H 85

Port Size NPT	Signal/Output Ratio	Model #
1/4	1:1	600-BA
3/8	1:1	600-CA
1/2	1:1	600-DA
1/4	1:3	600-BC
3/8	1:3	600-CC
1/2	1:3	600-DC
1/4	1:6	600-BD
3/8	1:6	600-CD
1/2	1:6	600-DD

Type 650

Signal-operated regulator provides an output pressure that is the sum of the input signal pressure plus an easily adjustable preset positive bias.

- Four bias ranges from 0–15 psig to 0–150 psig
- Flow capacity to 50 SCFM
- Relief capacity to 15 SCFM

Positive Bias Relay

Flow Capacity SCFM (m3/hr)	50 (85)
Exhaust Capacity SCFM (m3/hr)	15.0 (26.0)
Sensitivity Inch wc (mm)	0.25 (6.4)
Supply Pressure Max PSIG (BAR)	250 (17)
Output Pressure Range PSIG (BAR)	0-150 (0-10)
Approximate Size (inches)	DIA 3.0 H 3.5
Approximate Size (mm)	DIA 76 H 85

Port Size NPT	Signal/Output Ratio	Model #	Bias Range PSI
1/4	1:1	650-BF	0-150*
3/8	1:1	650-CF	0-150*

*Consult factory for other bias ranges and ratios.

Type 6000

1-to-1 signal to output relay that, when used with a positioner/actuator, increases speed of control valves.

- High air volume for rapid actuator stroking
- Adjustable bypass valve eliminates actuator overshoot or overdamping
- Soft seat sealing for tight shutoff
- Available in aluminum or 316 stainless steel contruction

Volume Booster

Supply & Signal Pressure	150 psig (10 BAR) max
Max Flow Coefficients (Cv)	Supply 3.0 / Exhaust 3.0
Flow Capacity	115 scfm (195.4 m3/hr)
Deadband	Under 0.25 psig (0.017 BAR)
Signal to Output Ratio	1:1 ± 5%
Temperature Limits	-40° to 160°F (-40° to 71°C)
Signal Port	1/4" NPT
Supply/Output Port	1/2" or 3/4" NPT

Model #	In/Out Port	Construction
6000-DA	1/2" NPT	Aluminum
6000-EA	3/4" NPT	Aluminum
6000-DS	1/2" NPT	Stainless Steel
6000-ES	3/4" NPT	Stainless Steel

Mite 70

Snap-acting control relay with manual reset

Set to trip on either an increasing or decreasing control signal, the Mite 70 will vent one port to atmosphere while it locks up the pressure in a second line. The tripped position is then held indefinitely until the control signal is restored and a manual reset button is pushed.

Pressure Rating	100 psig max
Temperature Limits	-40°F to +180°F
Port Sizes	Tapped for 1/4" NPT with 1/8" internal ports
Materials	Aluminum, plated steel, neoprene, brass and stainless steel

Super Mite 71L/71H

High pass or low pass pneumatic selecting relay

Automatically selects the higher or lower of two pneumatic inputs and passes it downstream while blocking the other.
Capable of almost instantaneous selection, and can separate pressure differentials as low as a tenth of a psi.

Pressure Rating	100 psig max
Temperature Limits	-40°F to +180°F
Port Sizes	Tapped for 1/4" NPT with 1/8" internal ports
Materials	Aluminum, plated steel, neoprene, brass and stainless steel

Super Mite 74

Snap-acting control relay with integral 3-way valve

Combines the Mite 70 control relay with a precision 2-way or 3-way valve in a single compact package. Either an increasing, decreasing or remote signal can be used to channel air as needed.

Pressure Rating	100 psig max
Temperature Limits	-40°F to +180°F
Port Sizes	Tapped for 1/4" NPT with 1/8" internal ports
Materials	Aluminum, plated steel, neoprene, brass and stainless steel

Mite 85

Snap-acting 3-way valve with two trip points

Allows two adjustable trip points that control flow through a 3-way valve. An increasing signal that exceeds the high trip point will open "I" port to "H". A decreasing signal pressure that drops below the low trip point will vent port "H".

Pressure Rating	120 psig max
Temperature Limits	-40°F to +180°F
Port Sizes	Tapped for 1/4" NPT with 1/8" internal ports
Materials	Aluminum, plated steel, neoprene, brass and stainless steel

Diaphragm Air Cylinders

A rolling diaphragm provides a low-friction dynamic seal. This design provides virtually frictionless conversion of fluid pressure to linear force.

- Low hysteresis
- No blow-by leakage
- Available with linear ball bearings
- Standard units are easily modified to meet individual customer requirements

Regulators

Type 100

Precision Air Pressure Regulator

Multi-stage regulator provides the highest level of regulation accuracy and repeatability available. Output pressure is controlled to within 0.1% of full range.

- Insensitive to changes in supply pressure and flow
- Able to hold set pressure over long periods of time
- High relief capacity, plunger operated, manifold mounted, and low range models are available
- Compact size

Flow Capacity SCFM (m3/hr)	14 (25)
Exhaust Capacity SCFM (m3/hr)	3 (5.1)
Sensitivity Inch wc (mm)	0.125 (3.2)
Supply Pressure Max PSIG (BAR)	150 (10)
Approximate Size (inches)	2.0 x 2.06 x 4.26
Approximate Size (mm)	52 x 52 x 108

Range PSIG (BAR)	Port Size NPT	Model#
2-40 (0.14-2.7)	1/8	100-AA
	1/4	100-BA
	3/8	100-CA
2-60 (0.14-4)	1/8	100-AB
	1/4	100-BB
	3/8	100CB
2-120 (0.14-8)	1/8	100-AC
	1/4	100-BC
	3/8	100-CC

Also Available:

Type 100HR High Relief Capacity
Range: 2-120 (0.14-8)
Port Size: 1/4 -Model # 110-BC
Port Size: 3/8 -Model # 110-CC

Type 100LR Low Range
Range: 0.5-25 (0.03-1.7) / Port Size: 1/4
Model # 120-BA

Type 100M

Motorized Precision Air Pressure Regulator

Designed to provide precise pneumatic control by using an electrical control.

- Ideal for control from a remote location
- Regulation accuracy and sensitivity of the Type 100
- Maintains set output pressure in the event of a power failure
- Compact size

Type 300

Instrument Air Filter & Air Filter Regulator

Designed to provide clean, accurate air pressure to instruments, valves, and other control equipment. Durable materials of construction in combination with an epoxy paint finish provide long lasting corrosion resistance in harsh industrial environments.

- Provides constant control of pressure under variable flow rates and supply pressures
- High capacity, long lasting depth filter
- Epoxy finish is standard
- Low droop
- Through body mounting
- Materials in the Type 310 meet NACE MR-01-75 requirements

Flow Capacity SCFM (m3/hr)	22 (37.0)
Exhaust Capacity SCFM (m3/hr)	0.1 (0.17)
Sensitivity Inch wc (mm)	1.0 (25.0)
Supply Pressure Max PSIG (BAR)	250 (17)
Type 300 & Type 310 Filter Regulators	
Approximate Size (inches)	3.13 x 3.13 x 7.50
Approximate Size (mm)	80 x 80 x 190
Type 320 Filter	
Approximate Size (inches)	3.13 x 3.13 x 3.96
Approximate Size (mm)	80 x 80 x 100

Type 300

Range PSIG (BAR)	Port Size NPT	Model#
0-10 (0-0.7)	1/4	300-BD
0-30 (0-2)	1/4	300-BA
0-60 (0-4)	1/4	300-BB
0-120 (0-8)	1/4	300-BC

Type 310 NACE Compliant

Range PSIG (BAR)	Port Size NPT	Model#
0-30 (0-2)	1/4	310-BA
0-60 (0-4)	1/4	310-BB
0-100 (0-7)	1/4	310-BC

Type 320 Filter

Range PSIG (BAR)	Port Size NPT	Model#
–	1/4	320-BX

Type 350/360/370SS

Stainless Steel Filter Regulator, Regulator & Filter

Designed to provide instrument quality air in corrosive environments. Will also provide precise pressure control of sour gases.

- 316 Stainless Steel Internal and External
- Viton® Seals
- NACE approved
- Large flow capacity
- Low air consumption
- Tapped exhaust

Now available with Autodrain and low temperature option.

Maximum Flow Capacity SCFM (m3/hr)	
1/4" NPT	20 (33.6)
1/2" NPT	160 (272)
Exhaust Capacity SCFM (m3/hr)	1.0 (1.7)
Sensitivity Inch wc (mm)	1.0 (25.0)
Supply Pressure Max PSIG (BAR)	290 (20)
Type 350SS Filter Regulator	
1/4" NPT Approx. Size (inches)	2.13 x 2.13 x 8.11
1/4" NPT Approx. Size (mm)	54.1 x 54.1 x 206
1/2" NPT Approx. Size (inches)	2.13 x 2.72 x 8.52
1/2" NPT Approx. Size (mm)	54.1 x 69.1 x 216.4
Type 360SS Regulator	
Approximate Size (inches)	2.13 x 2.13 x 5.49
Approximate Size (mm)	54.1 x 54.1 x 139.8

Type 350SS Filter Regulator

Range PSIG (BAR)	Port Size NPT	Model#
0-30 (0-2)	1/4	350-BA
	1/2	350-DA
0-60 (0-4)	1/4	350-BB
	1/2	350-DB
0-100 (0-7)	1/4	350-BC
	1/2	350-DC
0-150 (0-10)	1/4	350-BD
	1/2	350-DD

Type 360SS Regulator

Range PSIG (BAR)	Port Size NPT	Model#
0-30 (0-2)	1/4	360-BA
0-60 (0-4)	1/4	360-BB
0-100 (0-7)	1/4	360-BC
0-150 (0-10)	1/4	360-BD

Type 370SS Filter

	Port Size NPT	Model#
	1/4	370-BX
	1/2	370-DX

Type 400

General Service Pressure Regulator

General purpose regulator provides reliable performance under variable operating conditions.

- Repeatable pressure output
- Corrosion-resistant construction
- Low cost makes this unit ideal for high volume OEM applications

Flow Capacity SCFM (m3/hr)	20 (33.6)
Exhaust Capacity SCFM (m3/hr)	0.1 (0.17)
Sensitivity Inch wc (mm)	1.0 (25.0)
Supply Pressure Max PSIG (BAR)	250 (17)
Approximate Size (inches)	DIA 2.5 H 5.63
Approximate Size (mm)	DIA 63 H 143

Range PSIG (BAR)	Port Size NPT	Model#
0-10 (0-0.7)	1/4	400-BD
0-30 (0-2)	1/4	400-BA
0-60 (0-4)	1/4	400-BB
0-120 (0-8)	1/4	400-BC

Type 3500

High Pressure Regulator

General purpose regulator provides reliable performance under variable operating conditions.

- Repeatable pressure output
- Corrosion-resistant construction
- Low cost makes this unit ideal for high volume OEM applications

Supply Pressure Max PSIG (BAR)	6000 (413)
Temperature Range	-70° to 225°F
Approximate Size (inches)	DIA 3.35 H 6.26
Approximate Size (mm)	DIA 85.1 H 159

Range PSIG (BAR)	Port Size NPT	Adjustment	Model#
0-125 (0-9)	1/4	socket	3500-BC
0-150 (0-10)	1/4	socket	3500-BD
0-225 (0-16)	1/4	socket	3500-BE
0-125 (0-9)	1/4	Tee Handle	3500-CC
0-150 (0-10)	1/4	Tee Handle	3500-CD
0-225 (0-16)	1/4	Tee Handle	3500-CE

Type 700

Ideal for applications that require high flow capacity and accurate pressure control.

- Allows flow capacity up to 80 SCFM
- Dampening action of aspirator tube provides stability under varying flow conditions
- Sensitive to minute changes in down stream pressure

Precision High Flow Pressure Regulator

Flow Capacity SCFM (m3/hr)	80 (140)
Exhaust Capacity SCFM (m3/hr)	4 (7.0)
Sensitivity Inch wc (mm)	0.25 (6.4)
Supply Pressure Max PSIG (BAR)	250 (17)
Approximate Size (inches)	DIA 3.0 H 6.0
Approximate Size (mm)	DIA 76 H 152

Range PSIG (BAR)	Port Size NPT	Model#
0-2 (0-0.14)	1/4, 3/8, 1/2	700-BA, 700-CA, 700-DA
0-15 (0-1)	1/4, 3/8, 1/2	700-BC, 700-CC, 700-DC
0-30 (0-2)	1/4, 3/8, 1/2	700-BD, 700-CD, 700-DD
0-60 (0-4)	1/4, 3/8, 1/2	700-BE, 700-CE, 700-DE
0-150 (0-10)	1/4, 3/8, 1/2	700-BF, 700-CF, 700-DF

Type 700BP

Provides sensitive protection against over pressurization in the downstream portion of a pneumatic system. Operates as a high precision relief valve with an adjustable set point.

- Provides quick response to controlled system pressure variation
- Flow capacity up to 50 SCFM
- Compensating flow control from venturi tube design

Precision Back Pressure Regulator

Flow Capacity SCFM (m3/hr)	50 (85)
Sensitivity Inch wc (mm)	0.25 (6.4)
Supply Pressure Max PSIG (BAR)	250 (17)
Approximate Size (inches)	DIA 3.0 H 6.0
Approximate Size (mm)	DIA 76 H 152

Range PSIG (BAR)	Port Size NPT	Model#
0-2 (0-0.14)	1/4, 3/8, 1/2	710-BA, 710-CA, 710-DA
0-15 (0-1)	1/4, 3/8, 1/2	710-BC, 710-CC, 710-DC
0-30 (0-2)	1/4, 3/8, 1/2	710-BD, 710-CD, 710-DD
0-60 (0-4)	1/4, 3/8, 1/2	710-BE, 710-CE, 710-DE
0-150 (0-10)	1/4, 3/8, 1/2	710-BF, 710-CF, 710-DF

Type 800

Compact unit that supplies precise air pressure regulation for applications where space is limited.

- Flow capacity up to 5 SCFM
- Stable output
- Repeatable
- Self relieving
- Lightweight construction
- Viton® elastomers

Subminiature Precision Air Pressure Regulator

Flow Capacity SCFM (m3/hr)	5 (8)
Exhaust Capacity SCFM (m3/hr)	0.4 (0.68)
Supply Pressure Max PSIG (BAR)	250 (17)
Approximate Size (inches)	DIA 1.0 H 3.4
Approximate Size (mm)	DIA 24.5 H 86.4

Range PSIG (BAR)	Port Size		
	1/16 NPT	10-32	M5
0-5 (0-0.4)	800-AA	800-CA	800-BA
0-15 (0-1)	800-AB	800-CB	800-BB
0-30 (0-2)	800-AC	800-CC	800-BC
0-60 (0-4)	800-AD	800-CD	800-BD
0-100 (0-7)	800-AE	800-CE	800-BE

Type 850/860

Air/Water regulator provides stable output pressure in a small, economical package.

- Relieving and non-relieving models
- Non-rising adjustment knob with locking capability
- Lightweight construction
- OEM friendly cost

Low Cost Miniature Air/Water Pressure Regulator

Flow Capacity SCFM (m3/hr) [gal/min]	24 (41) [2.4]
Exhaust Capacity SCFM (m3/hr)	.5 (.85)
Supply Pressure Max PSIG (BAR)	250 (17)
Approximate Size (inches)	1.5 x 1.63 x 2.80
Approximate Size (mm)	38.1 x 41.4 x 71.1

Range PSIG (BAR)	Port Size NPT	Air Model#	Water Model#
0-5 (0-0.4)	1/8	850-AE	860-AEN
	1/4	850-BE	860-BEN
0-15 (0-1)	1/8	850-AA	860-AAN
	1/4	850-BA	860-BAN
0-30 (0-2)	1/8	850-AB	860-ABN
	1/4	850-BB	860-BBN
0-60 (0-4)	1/8	850-AC	860-ACN
	1/4	850-BC	860-BCN
0-100 (0-7)	1/8	850-AD	860-ADN
	1/4	850-BD	860-BDN

Type 500X

This electronic pressure regulator converts a current or voltage input signal to a linearly proportional pneumatic output pressure.

- Output pressure from 3–15 psig to 3–120 psig
- NEMA-4X(IP65) Enclosure (optional)
- Integral volume booster
- Agency approvals
- Field reversible
- Easy span and zero adjustment

Also Available:

Type 500X	High Pressure Range
Flow Capacity SCFM (m3/hr)	20 (34.0)
Terminal Based Linearity (% of span)	±1.5
Supply Pressure Max PSIG (BAR)	150 (10)

Input Signal	Output Range PSI (BAR)	Model#
4-20 mA	2-60 (0.14-4)	500-AG
4-20 mA	3-120 (0.2-8)	500-AH
0-60 mA	2-120 (0.14-8)	500-BF
0-5 V	2-60 (0.14-4)	500-CF
0-10 V	3-120 (0.2-8)	500-EH

Transducer (I/P, E/P)

Flow Capacity SCFM (m3/hr)	12.0 (20.4)
Terminal Based Linearity (% of span)	±0.75
Repeatability (% of span)	<0.5
Supply Pressure Max PSIG (BAR)	100 (7)
Port Size (Pneumatic)	1/4 NPT
Port Size (Electric)	1/2 NPT
Approximate Size (inches)	2.18 x 2.18 x 4.24
Approximate Size (mm)	55.4 x 55.4 x 107.7

Input Signal	Output Range PSI (BAR)	Model#
4-20 mA	3-15 (0.2-1)	500-AC
4-20 mA	3-27 (0.2-1.8)	500-AD
4-20 mA	6-30 (0.4-2)	500-AE
4-20 mA	1-17 (0.07-1.2)	500-AF
10-50 mA	3-15 (0.2-1)	500-BC
10-50 mA	3-27 (0.2-1.8)	500-BD
10-50 mA	6-30 (0.4-2)	500-BE
0-5 V	3-15 (0.2-1)	500-CC
0-5 V	3-27 (0.2-1.8)	500-CD
0-5 V	6-30 (0.4-2)	500-CE
1-9 V	3-15 (0.2-1)	500-DC
1-9 V	3-27 (0.2-1.8)	500-DD
1-9 V	6-30 (0.4-2)	500-DE

Type 550X

This electronic regulator provides accurate and economic control for proportional pressure applications.

- Compact size, accessible porting and easy adjustments for space constrained applications
- DIN rail, mainifold, pipe, wall or panel mounting available
- NEMA 4X / IP65 housing
- DIN 43650, terminal block or conduit electrical connections
- Zero based and high pressure versions available

Transducer (I/P, E/P)

Flow Capacity SCFM (m3/hr)	12.0 (20.4)
Linearity (Independent) % of span	<±0.5
Repeatability % of span	<0.5
Supply Pressure Max PSIG (BAR)	100 (7)
Port Size (Pneumatic)	1/4 NPT
Approximate Size (inches)	1.5 x 2.2 x 3.7
Approximate Size (mm)	38.1 x 55.4 x 93.7

Input Signal	Output Range PSI (BAR)	Model#
4-20 mA	3-15 (0.2-1)	550-ACA
4-20 mA	3-27 (0.2-1.8)	550-ADA
4-20 mA	6-30 (0.4-2)	550-AEA
4-20 mA	2-60 (0.14-4)	550-AGA
4-20 mA	3-120 (0.2-8)	550-AHA
0-10 V DC	2-60 (0.14-4)	550-EGA
0-10 V DC	3-120 (0.2-8)	550-EHA

Call for other options.

Also Available:

Type 550X	Zero Based Range
Max. Flow Capacity SCFM (m3/hr)	20 (34.0)
Linearity (Independent) % of span	<±1.0
Repeatability % of span	<1.0
Supply Pressure Max PSIG (BAR)	150 (10)
Port Size (Pneumatic)	1/4 NPT
Approximate Size (inches)	1.5 x 2.2 x 5.1
Approximate Size (mm)	38.1 x 55.4 x 130

Input Signal	Output Range PSI (BAR)	Model#
4-20 mA	0-30 (0-2)	550-AIA
4-20 mA	0-60 (0-4)	550-AJA
4-20 mA	0-120 (0-8)	550-AKA
0-10 V DC	0-30 (0-2)	550-EIA
0-10 V DC	0-60 (0-4)	550-EJA
0-10 V DC	0-120 (0-8)	550-EKA

Call for other options.

Type 590X

I/P transducer uses open loop control and a low mass magnet to produce accurate pressure control at an economical cost. Position insensitive and impervious to RFI/EMI interference.

- Vibration and Position Insensitive
- Din Rail and Manifold Mounting
- Manifold or 1/8" NPT Porting Available
- Wide Operating Temperature Limits
- Worldwide Safety Approvals

Transducer (I/P)

Terminal Based Linearity (% of span)	±0.5
Supply Pressure Max PSIG (BAR)	
Manifold (M)	150 (10.0)
1/8" NPT (P)	3-15: 22 (1.5) 3-27, 6-30: 42 (2.8)
Approximate Size (inches)	3.3 x 1.4 x 2.0
Approximate Size (mm)	84.9 x 36.1 x 53.1

Input Signal	Output Range PSI (BAR)	Connection	Model #
4-20 mA	3-15 (0.2-1)	Manifold	590-ACM
4-20 mA	3-27 (0.2-1.8)	Manifold	590-ADM
4-20 mA	6-30 (0.4-2)	Manifold	590-AEM
4-20 mA	3-15 (0.2-1)	1/8" NPT	590-ACP
4-20 mA	3-27 (0.2-1.8)	1/8" NPT	590-ADP
4-20 mA	6-30 (0.4-2)	1/8" NPT	590-AEP

Type 900X

Internal feedback system provides accurate conversion of a variable electrical signal to a linearly proportional pneumatic output.

- Unit self-corrects to maintain precise control of output pressure
- Shock, vibration and position insensitive
- High accuracy
- Noninteractive zero and span
- NEMA-4X(IP65) Enclosure
- Supply pressures up to 130 PSIG
- Built-in volume booster
- Wall, panel, pipe, DIN rail (optional) or manifold mounting
- Direct / reverse acting, full / split range

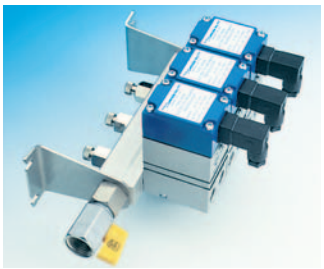
Transducer (I/P, E/P)

Flow Capacity SCFM (m3/hr)	12.0 (20.4)
Terminal Based Linearity (% of span)	±0.10
Repeatability (% of span)	<0.10
Supply Pressure Max PSIG (BAR)	100 (7)
Port Size (Pneumatic)	1/4 NPT
Port Size (Electric)	1/2 NPT
Approximate Size (inches)	1.5 x 2.2 x 3.7
Approximate Size (mm)	38.1 x 55.9 x 93.7

Input Signal	Output Range PSI (BAR)	Model#
4-20 mA	3-15 (0.2-1)	900-ACA
4-20 mA	3-27 (0.2-1.8)	900-ADA
4-20 mA	6-30 (0.4-2)	900-AEA
4-20 mA	1-17 (0.07-1.2)	900-AFA
4-20 mA	2-60 (0.14-4)	900-AGA
4-20 mA	2-100 (0.14-7)	900-AHA
0-5 V	3-15 (0.2-1)	900-CCA
0-5 V	3-27 (0.2-1.8)	900-CDA
0-5 V	6-30 (0.4-2)	900-CEA
0-10 V	3-15 (0.2-1)	900-ECA
010 V	3-27 (0.2-1.8)	900-EDA
0-10 V	2-60 (0.14-4)	900-EGA
0-10 V	2-100 (0.14-7)	900-EHA

Now Available: Zero Based Outputs 0-15, 0-30 & 0-60 psi

Type 925



Multi-Function Supply Manifold

Provides a common supply port for the Type 550 or Type 900X I/P, E/P. Individual shut-offs allow in use service.

- One supply line for multiple outlets
- Patented individual shut-off valve
- DIN rail mountable
- Easy set-up
- Adaptable to provide common output for solenoid valves

Type 5500

Multi-station Digital to Pneumatic Pressure Regulator

This multi-station manifold uses a common air supply to provide electronic proportional control of output pressure through the use of a DeviceNet™ or Profibus™ communication network.

- 4, 6, or 8 station air pressure control from one fieldbus node
- Easy commissioning and reduced system wiring
- Individual shut-off valve for each station
- Optional diagnostic feedback of output pressure
- Common air supply simplifies piping
- Compact design ideal for high-density mounting.

Type 950XP

Compact I/P transducer in an explosion-proof housing delivers reliable performance in hazardous areas. Internal electronic feedback system maintains accurate control of output pressure.

- Explosion-proof NEMA-4X(IP65) enclosure.
- RFI, EMI protected
- Shock, vibration and position insensitive.
- Field-selectable outputs (optional)
- Highly tolerant of impure air
- Optional tapped exhaust and conduit seal required for FM/CSA approval when using natural gas (sweet) or methane

Explosion-Proof Transducer (I/P)

Approved for Natural Gas

Flow Capacity SCFM (m3/hr)	12.0 (20.4)
Terminal Based Linearity (% of span)	±0.10
Repeatability (% of span)	<0.10
Supply Pressure Max PSIG (BAR)	100 (7)
Port Size (Pneumatic)	1/4 NPT
Port Size (Electric)	1/2 NPT
Approximate Size (inches)	DIA 3.50 H 4.60
Approximate Size (mm)	DIA 88.9 H 116.6

Input Signal	Output Range PSI (BAR)	Model#
4-20 mA	3-15 (0.2-1)	950-AC
4-20 mA	3-27 (0.2-1.8)	950-AD
4-20 mA	6-30 (0.4-2)	950-AE
4-20 mA	Field Selectable	950-ACA

P200/P290M

All solid state circuitry converts standard 3-15, 3-27 or 6-30 psig instrument air into 4-20 or 10-50 mA outputs (4-20 mA only for FM and CSA approval) with uncompromising accuracy and durability. The P200 is FM approved and CSA certified as NEMA 4 (Enc. 4) for all locations and explosion-proof.


P200


P290M

- ±0.10% accuracy
- Custom inputs up to 50 PSI

Pneumatic-to-Current P/I Transducers

	Dahl P200	Dahl P290
Inputs	3-15 psig (0.2-1 BAR), 3-27 psig (0.2-1.8 BAR), 6-30 psig (0.4-2 BAR) or customized up to 0-50 psig (0-3.4 BAR)	
Outputs	2 wire: 4-20 mA and 10-50 mA with over-current limit	2 wire: 4-20 mA, with over-current limit
Loads (24 VDC)	700 Ω	2-wire: 700 Ω, standard.
Accuracy	± 0.15% of span guaranteed; ±0.10% of span typical. Includes combined effects of linearity, hysteresis and repeatability errors	
Temp. Stability	Span and zero: ± 0.007% of span per °F maximum deviation from 77°F calibration	
Approx. Size (inches)	3.5 x 3.125	.75 x 3.43 x 5.37

Input Signal PSI (BAR)	Output Range	Model #
3-15 (0.2-1)	4-20 mA	P200 + P11
3-27 (0.2-1.8)	4-20 mA	P200 + P12
6-30 (0.4-2)	4-20 mA	P200 + P13
3-15 (0.2-1)	4-20 mA	P290M + P11
3-27 (0.2-1.8)	4-20 mA	P290M + P12
6-30 (0.4-2)	4-20 mA	P290M + P13

L100

Fully self-contained bubble-tube level system requires only connections to air or gas supply, dip tube and electrical power source to provide precise level indication. Ideal for applications involving liquids which are highly corrosive, viscous, hot, (molten metal), slurry type or foodstuff.

- High accuracy and stability
- Visual purge rate indication
- Blow-down capability
- Excellent for hazardous, high-temperature, corrosive or waste water level measurement
- NEMA 4X enclosures available

Bubble Tube Liquid Level System

Ranges	0-50 inches water to 0-115 feet water or equivalent, full scale
Gas Input	1.0 to 7.0 SCFH, regulated on-board to a pressure between 120% or 3 psi, whichever is greater, and 200% of full scale liquid head. Maximum blow-down pressure is 150 psi. Maximum on-board regulated pressure is 60 psi
Accuracy	± 0.25% of span guaranteed; ±0.20% of span typical. Includes combined effects of linearity, hysteresis and repeatability errors.
Sensitivity	±0.02% of span guaranteed
Approximate Size (inches)	12.87 x 14.75
Approximate Size (mm)	326.9 x 374.65

Description	Model#
Basic System	L100
Remote Sensing	L100R
Automatic Blow-Down	L100A
Remote Sensing & Automatic Blow-Down	L100AR

09/27/06 P/N: 441-625-013

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