



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
- Valve Positioners
- Filter Regulators
- Volume Boosters
- Snap Acting Relays & Bias Relays
- Motorized Regulators
- Liquid Level Systems
- Friction-free Diaphragm Air Cylinders
- Custom Engineered Devices



ControlAir Inc.

PRECISION PNEUMATIC & ELECTROPNEUMATIC CONTROLS

Regulators

Type 90

- ▲ 1/8" NPT/BSP porting
- ▲ High resolution adjustment of set pressure
- ▲ Will fit into tight space requirements
- ▲ Lightweight die cast aluminum construction
- ▲ Compact, lightweight unit



Subminiature Precision Air Pressure Regulator

Flow capacity SCFM (NL/min)	14 (420)
Exhaust Capacity SCFM (NL/min)	7 (210)
Sensitivity Inch wc (mm)	.25 (6.4)
Supply Pressure max. psig (BAR)	150 (10)
Approximate Size (inches)	1.38x1.38x3.88
Approximate Size (mm)	35.1x35.1x98.5

Range psig (BAR)	Port Size NPT/BSP	Model# NPT/BSP
0.70-30 (0.05-2)	1/8"	90-AA/90-UA
1.4-60 (0.1-4)	1/8"	90-AB/90-UB
1.4-120 (0.1-8)	1/8"	90-AC/90-UC



Type 100

- ▲ Highest level of regulation accuracy and repeatability available
- ▲ 1/8", 1/4", 3/8" NPT/BSP porting
- ▲ Able to hold set pressure over long periods of time
- ▲ High relief capacity, plunger operated, manifold mounted, and low range models are available



Precision Air Pressure Regulator

Flow Capacity SCFM (NL/min)	14 (420)
Exhaust Capacity SCFM (NL/min)	
Type 100	3 (90)
Type 100HR	11 (330)
Type 100EHR	15 (450)
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/BSP	Model# NPT/BSP
0.5-25 (0.03-1.7)	1/4	120-BA/120-BAU
2-40 (0.14-2.7)	1/8	100-AA/100-AAU
	1/4	100-BA/100-BAU
	3/8	100-CA/100-CAU
2-60 (0.14-4)	1/8	100-AB/100-ABU
	1/4	100-BB/100-BBU
	3/8	100-CB/100-CBU
2-120 (0.14-8)	1/8	100-AC/100-ACU
	1/4	100-BC/100-BCU
	3/8	100-CC/100-CCU

Type 100M

- ▲ Ideal for control from a remote location
- ▲ Precise pneumatic control by using an electrical control
- ▲ Regulation accuracy and sensitivity of the Type 100
- ▲ Maintains set output pressure in the event of a power failure
- ▲ Compact size



Motorized Precision Air Pressure Regulator

Flow Capacity SCFM (NL/min)	14 (396)
Exhaust Capacity SCFM (NL/min)	5 (3.5)
Total Air Consumption SCFM	0.10
Supply Pressure max. psig (BAR)	150 (10)
Motor Type	Reversible, synchronous motor with gear drive and slip clutch

Range psig(BAR)	Approx. Time to Cover Full Range (seconds)	
	2RPM	6RPM
2-40 (0.14-2.8)	120	40
2-60 (0.14-4)	90	30
2-120 (0.14-8.3)	150	50

Type 330/335/340



Instrument Air Filter Regulator & Regulator

Exhaust Capacity SCFM (NL/min)	0.1 (3)
Sensitivity Inch wc (mm)	1.0 (25.0)
Supply Pressure max. psig (BAR)	250 (17)
Auto Drain:	
Supply Pressure max. psig (BAR)	150 psig (10)
Cv Values: 1/4"NPT 0.5 at 150 psig supply and 80 psig setpoint	
1/2"NPT 2.5 at 150 psig supply and 80 psig setpoint	

Range psig (BAR)	Port Size NPT	Filter Regulator Model #	Regulator Model #
0-30 (0-2)	1/4, 1/2	330-BAB, 330-DAB	340-BAB, 340-DAB
0-60 (0-4)	1/4, 1/2	330-BBB, 330-DBB	340-BBB, 340-DBB
0-120 (0-8)	1/4, 1/2	330-BCB, 330-DCB	340-BCB, 340-DCB

- ▲ Direct, pipe or bracket mounting
- ▲ Tapped exhaust and panel mount options
- ▲ Second gauge port
- ▲ Low temperature option
- ▲ Automatic drain option
- ▲ Type 335 meets NACE MR-0175 requirements (available in 1/4" only)



Type 300

- ▲ Provides clean, accurate air pressure
- ▲ Epoxy paint finish standard
- ▲ Stable output and repeatability
- ▲ High capacity, long lasting depth filter
- ▲ Low drop
- ▲ Materials in the Type 310 meet NACE MR-0175 requirements
- ▲ Low temperature option
- ▲ Filter only unit available



Instrument Air Filter & Regulator

Flow Capacity SCFM (NL/min)	22 (660)
Exhaust Capacity SCFM (NL/min)	0.1 (3)
Sensitivity Inch wc (mm)	1.0 (25.0)
Supply Pressure max. psig (BAR)	250 (17)

Type 300/Type 310NACE/Type 320 Filter

Range psig (BAR)	Port Size NPT	Model#
0-10 (0-0.7)	1/4	300-BD
0-30 (0-2)	1/4	300-BA/310-BA
0-60 (0-4)	1/4	300-BB/310-BB
0-100 (0-6.8)	1/4	310-BC
0-120 (0-8.0)	1/4	300-BC
N/A	1/4	320-BX



Type 350/360/370SS

- ▲ Instrument quality air for corrosive environments.
- ▲ 316 stainless steel internal and external
- ▲ 1/4" & 1/2" NPT porting
- ▲ Meets NACE MR-0175 requirements.
- ▲ Low temperature option
- ▲ Automatic drain option



Stainless Steel Filter Regulator, Regulator & Filter

Maximum Flow Capacity SCFM (NL/min)	
1/4" NPT	20 (600)
1/2" NPT	160 (4,800)
Exhaust Capacity SCFM (NL/min)	1.0 (30)
Sensitivity Inch wc (mm)	1.0 (25.0)
Supply Pressure max. psig (BAR)	290 (20)

Type 350SS Filter Regulator

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

Type 360SS Regulator

Range psig (BAR)	Port Size NPT	Model#
0-30 (0-2)	1/4, 1/2	360-BA, 360-DA
0-60 (0-4)	1/4, 1/2	360-BB, 360-DB
0-100 (0-7)	1/4, 1/2	360-BC, 360-DC
0-150 (0-10)	1/4, 1/2	360-BD, 360-DD

Type 370SS Filter

Port Size NPT	Model#
0-30 (0-2)	370-BX, 370-DX

Type 400

- ▲ 1/4" NPT porting
- ▲ Repeatable pressure output
- ▲ Corrosion-resistant construction
- ▲ Low cost makes this unit ideal for high volume OEM applications



General Service Pressure Regulator

Flow Capacity SCFM (NL/min)	20 (600)
Exhaust Capacity SCFM (NL/min)	0.1 (3)
Sensitivity Inch wc (mm)	1.0 (25.0)
Supply Pressure max. psig (BAR)	250 (17)

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 480

- ▲ 1/4" NPT porting
- ▲ Comes standard with panel nut and mounting bracket
- ▲ Integral locking knob prevents inadvertent adjustments



Vacuum Regulator

Regulating Range	0 to 30 in.Hg (-1 to -0.013 BAR)
Atmospheric Intake	.04 SCFM (1.1 NL/min)
Sensitivity	.5 in w.c. (0.0013 BAR)
Ambient Temperature	32° to 140°F (0° to 60°C)
Weight	.93 lbs (.42 kg)
Port size (In and Out)	1/4 NPT
Port size (Gauge)	1/8 BSPT (Rc1/8)
Flow rate (max.)	3.5 SCFM (100 NL/min)

Range in.Hg (BAR)	Port Size NPT	Model#
0-30 (-1 to -0.013)	1/4	480V-BA

Type 380/390SS

- ▲ All 316 stainless steel construction
- ▲ 3/4" & 1" NPT/BSP ported version
- ▲ High flow capacity
- ▲ NACE approved
- ▲ Autodrain option
- ▲ Tapped exhaust



Stainless Steel Filter Regulator & Regulator

Maximum Flow	3/4" NPT	6.0
Coefficients (Cv)	1" NPT	7.0
Maximum Flow	3/4" NPT	350 (9,905)
Capacity SCFM (NL/min)	1" NPT	400 (11,320)
Supply Pressure max.	290 psig (20 BAR)	
Operating Temperatures	-40° to 200°F (-40° to 93°C)	
Filter	25 micron or 5 micron filter	
Weight	Type 380	15 lbs (6.80 kg)
	Type 390	13 lbs (5.90 kg)

Type 380 Stainless Steel Filter Regulator

Range psig (BAR)	Port Size NPT	Model#
0-30 (0-2)	3/4, 1	380-EA, 380-FA
0-60 (0-4)	3/4, 1	380-EB, 380-FB
0-100 (0-7)	3/4, 1	380-EC, 380-FC
0-150 (0-10)	3/4, 1	380-ED, 380-FD
0-200 (0-14)	3/4, 1	380-EE, 380-FE

Type 390 Stainless Steel Regulator

Range psig (BAR)	Port Size NPT	Model#
0-30 (0-2)	3/4, 1	390-EA, 390-FA
0-60 (0-4)	3/4, 1	390-EB, 390-FB
0-100 (0-7)	3/4, 1	390-EC, 390-FC
0-150 (0-10)	3/4, 1	390-ED, 390-FD
0-200 (0-14)	3/4, 1	390-EE, 390-FE

Type 3500/3600

- ▲ 6000 psi max. supply
- ▲ Repeatable pressure output
- ▲ Corrosion-resistant construction
- ▲ Low cost makes this unit ideal for high volume OEM applications



High Pressure Regulator

Supply Pressure max. psig (BAR)	6000 (413)
Temperature Range	-70° to 225°F

Type 3500 Brass

Type 3600 316 Stainless Steel

Range psig (BAR)	Port Size NPT	Adjustment	Model#
0-125 (0-9)	1/4	socket	3500-BC, 3600-BC
0-150 (0-10)	1/4	socket	3500-BD, 3600-BD
0-225 (0-16)	1/4	socket	3500-BE, 3600-BE
0-125 (0-9)	1/4	Tee Handle	3500-CC, 3600-CC
0-150 (0-10)	1/4	Tee Handle	3500-CD, 3600-CD
0-225 (0-16)	1/4	Tee Handle	3500-CE, 3600-CE

Type 700

- ▲ Accurate pressure control
- ▲ 1/4", 3/8", 1/2" NPT/BSP porting
- ▲ 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 Pressure Regulator

Flow Capacity SCFM (NL/min)	80 (2,400)
Exhaust Capacity SCFM (NL/min)	4 (120)
Sensitivity Inch wc (mm)	0.25 (6.4)
Supply Pressure max. psig (BAR)	250 (17)
Approx. Size inches (mm)	DIA 3.0 (76) H 6.0 (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-DD, 700-DE
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

- ▲ 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.
- ▲ 1/4", 3/8", 1/2" NPT/BSP porting



Precision Back Pressure Regulator

Flow Capacity SCFM (NL/min)	50 (1,500)
Exhaust Capacity SCFM (NL/min)	4 (120)
Sensitivity Inch wc (mm)	0.25 (6.4)
Supply Pressure max. psig (BAR)	250 (17)

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-DD, 710-DE
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 7000

- ▲ 1/4", 1/2", 3/4" NPT porting
- ▲ Two 1/4" NPT gauge ports
- ▲ High forward and exhaust flow
- ▲ Low droop and precise adjustment
- ▲ Multiple port options
- ▲ Balanced supply valve



High Flow Precision Regulator

Maximum Flow Coefficients (Cv)	Port NPT	Forward	Exhaust
	3/4"	5.0	3.5
	1/2"	4.5	3.5
	1/4"	2.0	2.5
Exhaust Capacity SCFM (NL/min)	3/4"	80 (2,264 NL/min)	
	1/2"	75 (2,123 NL/min)	
	1/4"	35 (991 NL/min)	
Sensitivity Inch wc (mm)	0.25 (6.4)		
Effect of Supply Pressure	<0.3 psi (.007 BAR) for		
Variation on Output	100 psi (6.7 BAR) change		
Air Consumption	<12 scfh at 200 psig output		
Supply Pressure max. psig (BAR)	250 (17.5)		

Range psig (BAR)	Port Size NPT	Model#
0-2 (0-0.15)	1/4, 1/2, 3/4	7000-BA, 7000-DA, 7000-EA
0-10 (0-0.69)	1/4, 1/2, 3/4	7000-BB, 7000-DB, 7000-EB
0-30 (0-2.0)	1/4, 1/2, 3/4	7000-BC, 7000-DC, 7000-EC
0-60 (0-4.0)	1/4, 1/2, 3/4	7000-BD, 7000-DD, 7000-ED
0-100 (0-7)	1/4, 1/2, 3/4	7000-BE, 7000-DE, 7000-EE
0-100 (0-7)	1/4, 1/2, 3/4	7000-BE, 7000-DE, 7000-EE
0-150 (0-10)	1/4, 1/2, 3/4	7000-BF, 7000-DF, 7000-EF
0-200 (0-13.8)	1/4, 1/2, 3/4	7000-BG, 7000-DG, 7000-EG

Type 7100

- ▲ Senses output pressure deviations to within 1/4 inch water column pressure
- ▲ 1/4", 1/2", or 3/4" NPT porting
- ▲ Two 1/4" NPT gauge ports
- ▲ High flow capacity
- ▲ Standard tension nut prevents inadvertent pressure adjustment
- ▲ Stable output
- ▲ Balanced supply valve



Precision Air Pressure Regulator

Supply Pressure max.	250 psig (17 BAR)
Air Consumption max.	6 scfh (3 NL/min)
Maximum Flow Coefficients (Cv)	Port Forward Exhaust
	3/4" 5.0 3.5
	1/2" 4.5 3.5
	1/4" 2.0 2.5
Exhaust Capacity SCFM (NL/min)	3/4" 80 (2,264 NL/min)
	1/2" 75 (2,123 NL/min)
	1/4" 35 (991 NL/min)
Sensitivity Inch wc (mm)	<1/4 (6.3)

Range psig (BAR)	Port Size NPT	Model#
2-40 (0.14-2.7)	1/4, 1/2, 3/4	7100-BA, 7100-DA, 7100-EA
2-60 (0.14-4.1)	1/4, 1/2, 3/4	7100-BB, 7100-DB, 7100-EB
2-120 (0.14-8.2)	1/4, 1/2, 3/4	7100-BC, 7100-DC, 7100-EC

Type 800

- ▲ Compact unit
- ▲ Flow capacity up to 5 SCFM
- ▲ Stable/repeatable
- ▲ Lightweight construction
- ▲ Available with threaded post / manifold mounting



Subminiature Precision Air Pressure Regulator

Flow Capacity SCFM (NL/min)	5 (150)
Exhaust Capacity SCFM (NL/min)	0.4 (12)
Supply Pressure max. psig (BAR)	250 (17)
Approx. Size inches (mm)	DIA 1.0 (24.5) H 3.4 (86.4)

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

Type 850/860/870

- ▲ Stable (Air/Water/Potable Water) pressure
- ▲ Small, economical package.
- ▲ Relieving and non-relieving models
- ▲ Non-rising adjustment knob with locking capability
- ▲ Lightweight construction
- ▲ OEM friendly cost
- ▲ 1/8" and 1/4" NPT/BSP Porting
- ▲ Food grade compliant (870 only)



Miniature Air/Water/Potable Water Pressure Regulator

Flow Capacity SCFM (NL/min) [gal/min]	24 (720) [2.4]
T850 Exhaust Capacity SCFM (NL/min)	.5 (15)
T850 Supply Pressure max. psig (BAR)	250 (17)
T860 Supply Pressure max. psig (BAR)	150 (10)
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/BSP	Air Model#	Water Model#	Potable Model#
0-5 (0-0.4)	1/8	850-AE	860-AEN	870-AEN
	1/4	850-BE	860-BEN	870-BEN
0-15 (0-1)	1/8	850-AA	860-AAN	870-AAN
	1/4	850-BA	860-BAN	870-BAN
0-30 (0-2)	1/8	850-AB	860-ABN	870-ABN
	1/4	850-BB	860-BBN	870-BBN
0-60 (0-4)	1/8	850-AC	860-ACN	870-ACN
	1/4	850-BC	860-BCN	870-BCN
0-100 (0-7)	1/8	850-AD	860-ADN	870-ADN
	1/4	850-BD	860-BDN	870-BDN

For BSP porting add "U" to end of Model #



Intrinsically Safe – I/P, E/P

Type 500X

- ▲ 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 (NL/min) 20 (600)
Terminal Based Linearity (% of span) ±1.5
Supply Pressure max. psig (BAR) 150 (10)

Input Signal	Output Range PSI (BAR)	Model# NPT/BSP
4-20 mA	2-60 (0.14-4)	500-AG/500-AGU
4-20 mA	3-120 (0.2-8)	500-AH/500-AHU
0-60 mA	2-120 (0.14-8)	500-BF/500-BFU
0-5 V	2-60 (0.14-4)	500-CF/500-CFU
0-10 V	3-120 (0.2-8)	500-EH/500-EHU



Type 550X

- ▲ Compact size, accessible porting and easy adjustments for space constrained applications
- ▲ DIN 43650, M12, terminal block or conduit electrical connections
- ▲ DIN rail, manifold, pipe, wall or panel mounting available
- ▲ NEMA-4X(IP65) housing
- ▲ Zero based and high pressure versions available*
- ▲ Intrinsically safe certifications



Transducer (I/P, E/P)

Flow Capacity SCFM (NL/min)	12.0 (360)
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, 1/4 BSP
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# NPT/BSP
4-20 mA	3-15 (0.2-1)	500-AC/500-ACU
4-20 mA	3-27 (0.2-1.8)	500-AD/500-ADU
4-20 mA	6-30 (0.4-2)	500-AE/500-AEU
4-20 mA	1-17 (0.07-1.2)	500-AF/500-AFU
10-50 mA	3-15 (0.2-1)	500-BC/500-BCU
10-50 mA	3-27 (0.2-1.8)	500-BD/500-BDU
10-50 mA	6-30 (0.4-2)	500-BE/500-BEU
0-5 Vdc	3-15 (0.2-1)	500-CC/500-CCU
0-5 Vdc	3-27 (0.2-1.8)	500-CD/500-CDU
0-5 Vdc	6-30 (0.4-2)	500-CE/500-CEU
1-9 Vdc	3-15 (0.2-1)	500-DE/500-DEU
1-9 Vdc	3-27 (0.2-1.8)	500-DD/500-DDU
1-9 Vdc	6-30 (0.4-2)	500-DE/500-DEU

Transducer (I/P, E/P)

Inputs	4-20 mA, 0-5 Vdc, 0-10 Vdc, 1-9 Vdc
Flow Capacity SCFM (NL/min)	12.0 (360)
Linearity (Independent) % of span	±0.5
Repeatability % of span	<0.5
Supply Pressure max. psig (BAR)	100 (7)
Port Size (Pneumatic)	1/4 NPT, 1/4 BSP
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# NPT/BSP
4-20 mA	3-15 (0.2-1)	550-ACA/550-ACAU
4-20 mA	3-27 (0.2-1.8)	550-ADA/550-ADAU
4-20 mA	6-30 (0.4-2)	550-AEA/550-AEAU
4-20 mA	2-60 (0)	550-AGA/550-AGAU
4-20 mA	3-120 (0)	550-AHA/550-AHAU
0-10 Vdc	2-60 (0)	550-EGA/550-EGAU
0-10 Vdc	3-120 (0)	550-EHA/550-EHAU

Also Available:

Type 550X Zero Based Range

Inputs	4-20 mA, 0-5 Vdc, 0-10 Vdc, 1-9 Vdc
Max. Flow Capacity SCFM (NL/min)	20 (600)
Linearity (Independent) % of span	±1.0
Repeatability % of span	<1.0
Supply Pressure max. psig (BAR)	150 (1050)
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# NPT/BSP
4-20 mA	0-30 (0)	550-AIA/550-AIAU
4-20 mA	0-60 (0)	550-AJA/550-AJAU
4-20 mA	0-120 (0)	550-AKA/550-AKAU
0-10 Vdc	0-30 (0)	550-EIA/550-EIAU
0-10 Vdc	0-60 (0)	550-EJA/550-EJAU
0-10 Vdc	0-120 (0)	550-EKA/550-EKAU



Type 590X

- ▲ Accurate pressure control at an economical cost
- ▲ Vibration and position insensitive
- ▲ Din rail and manifold mounting
- ▲ Manifold or 1/8" NPT porting available
- ▲ Wide operating temperature limits
- ▲ Worldwide safety approvals



Type 900X

- ▲ Unit self-corrects to maintain precise control of output pressure
- ▲ Shock, vibration and position insensitive
- ▲ High accuracy
- ▲ Noninteractive zero and span
- ▲ Wall, panel, pipe, DIN rail (optional) or manifold mounting
- ▲ DIN 43650, terminal block or conduit electrical connections
- ▲ NEMA-4X(IP65) Enclosure
- ▲ Supply pressures up to 130 psig
- ▲ Built-in volume booster
- ▲ Direct / reverse acting, full / split range



Also Available:

Type 900X High Output

Inputs:	4-20 mA, 0-10 Vdc, 1-9 Vdc, 0-5 Vdc, 1-5 Vdc
Outputs psig (BAR):	2-60 (0.14-4), 2-100 (0.14-6.9)
Supply Pressure psig (BAR):	65-130 (4.5-9), 105-130 (7.2-9)
Air Consumption:	4.5 scfh (2.25 NL/min) at mid range typical
Flow Capacity:	20 SCFM (566 NL/min) at 130 psig (9.0 BAR) supply

Input Signal	Output Range PSI (BAR)	Model# NPT/BSP
4-20 mA	2-60 (0.14-4)	900-AGA/900-AGAU
4-20 mA	2-100 (0.14-7)	900-AHA/900-AHAU
0-10 Vdc	2-60 (0.14-4)	900-EGA/900-EGAU
0-10 Vdc	2-100 (0.14-7)	900-EHA/900-EHAU



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-ACA
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

Transducer (I/P, E/P)

Inputs	4-20 mA, 0-5 Vdc, 1-9 Vdc, 0-10 Vdc, 1-5 Vdc
Flow Capacity SCFM (NL/min)	12.0 (360)
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, 1/4 BSP
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# NPT/BSP
4-20 mA	3-15 (0.20-1.00)	900-ACA/900-ACAU
4-20 mA	3-27 (0.2-1.9)	900-ADA/900-ADAU
4-20 mA	6-30 (0.4-2.1)	900-AEA/900-AEAU
4-20 mA	1-17 (0.07-1.2)	900-AFA/900-AFAU
0-10 Vdc	3-15 (0.20-1.00)	900-ECA/900-ECAU
0-10 Vdc	3-27 (0.2-1.9)	900-EDA/900-EDAU
0-10 Vdc	6-30 (0.4-2.1)	900-EFA/900-EFAU
0-10 Vdc	1-17 (0.07-1.2)	900-EFA/900-EFAU

Also Available:

Type 900X Zero Based

Inputs:	4-20 mA, 0-10 Vdc, 1-9 Vdc, 0-5 Vdc, 1-5 Vdc
Outputs psig (BAR):	0-15 (0-1.0), 0-30 (0-2.1), 0-60 (0-4.1)
Supply Pressure psig (BAR):	25-65 (1.7-4.5), 40-70 (2.7-4.8), 70-80 (4.8-5.5)
Air Consumption:	1.5 scfh (0.75 NL/min) at mid range typical 4.5 scfh (2.25 NL/min) at mid range typical
Flow Capacity:	4.5 SCFM (127 NL/min) at 130 psig (9.0 BAR) supply 20 SCFM (566 NL/min) at 130 psig (9.0 BAR) supply

Input Signal	Output Range PSI (BAR)	Model# NPT/BSP
4-20 mA	0-15 (0-1)	900-ALA/900-ALAU
4-20 mA	0-30 (0-2.1)	900-AJA/900-AJAU
4-20 mA	0-60 (0-4.1)	900-AJA/900-AJAU
0-10 Vdc	0-15 (0-1)	900-EJA/900-EJAU
0-10 Vdc	0-30 (0-2.1)	900-EJA/900-EJAU
0-10 Vdc	0-60 (0-4.1)	900-EJA/900-EJAU

Explosion-Proof – I/P

Type 595XP

- ▲ Compact design
- ▲ Worldwide safety approvals
- ▲ Vibration and position insensitive
- ▲ Low power consumption



Explosion-Proof Transducer (I/P)

Flow Capacity SCFM (NI/min)	2.4 (72)
Terminal Based Linearity (% of span)	±0.5
Repeatability (% of span)	<0.3
Supply Pressure max. psig (BAR)	42 (2.8)
Port Size (Pneumatic)	1/4 NPT
Port Size (Electric)	1/2 NPT
Approximate Size (inches)	DIA 2.90 H 5.16
Approximate Size (mm)	DIA 73.7 H 131.0

Input Signal	Output Range PSI (BAR)	Model#
4-20 mA	3-15 (0.2-1)	595-AC
4-20 mA	3-27 (0.2-1.8)	595-AD
4-20 mA	6-30 (0.4-2)	595-AC



Type 950XP

- ▲ Compact design
- ▲ 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)

Flow Capacity SCFM (NI/min)	12.0 (360)
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
4-20 mA	Explosion-proof	950-ACA



I/PAC



Integrated Process Air Control

- ▲ Seamless replacements for existing automated control valves in the field
- ▲ Convenient bracketing allows direct or 2" pipe mounting
- ▲ Units come preassembled with filter regulator and pressure gauge.
- ▲ Explosion-proof and intrinsically safe approvals from FM, CSA and ATEX



Manifold

Type 925



Multi-Function Supply Manifold

- ▲ Common supply port for the Type 550 or Type 900X I/P, E/P
- ▲ One supply line for multiple outlets
- ▲ Patented individual shut-off valve
- ▲ DIN rail mountable
- ▲ Adaptable to provide common output for solenoid valves

P/I

P200/P290M

- ▲ Converts standard 3-15, 3-27 or 6-30 psig instrument air into 4-20 or 10-50 mA outputs
- ▲ ±0.15% accuracy
- ▲ Custom inputs up to 30 PSI
- ▲ The P200 is FM approved and CSA certified as NEMA4 (Enc.4) for all locations and explosion-proof.



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 0-30 psig (0-2 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; ±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

Liquid Level Measuring System

L100

- ▲ Requires only connections to air or gas supply, dip tube and electrical power source
- ▲ High accuracy and stability
- ▲ Visual purge rate indication
- ▲ Blow-down capability
- ▲ Excellent for hazardous, high-temp., corrosive or waste water
- ▲ NEMA 4X enclosures available



Bubble Tube Liquid Level System

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

Logic Relays

Mite 70/73/74/85

- ▲ Snap-acting design automatically trips on either an increasing or decreasing signal
- ▲ Rugged, compact units engineered for high density applications



Snap-acting Control Relay with Manual Reset

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

- ▲ Automatically selects the higher or lower of two pneumatic inputs and passes it downstream while blocking the other



High Pass or Low Pass Pneumatic Selecting Relay

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

Volume Boosters

Type 600

- ▲ Signal pressure produces an output pressure with high flow capacity
- ▲ 1/4", 3/8", 1/2" NPT/BSP porting
- ▲ Flow capacity to 50 SCFM
- ▲ Available with 1:1, 1:2, 1:3 or 1:6 signal to output ratio
- ▲ High relief capacity
- ▲ Negative bias option available



Volume Booster

Flow Capacity SCFM (NL/min)	50 (1,500)
Exhaust Capacity SCFM (NL/min)	15.0 (450)
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/BSP	Signal/Output Ratio	Model# NPT
1/4", 3/8", 1/2"	1:1	600-BA, 600-CA, 600-DA
1/4", 3/8", 1/2"	1:2	600-BB, 600-CB, 600-DB
1/4", 3/8", 1/2"	1:3	600-BC, 600-CC, 600-DC
1/4", 3/8", 1/2"	1:6	600-BD, 600-CD, 600-DD

For BSP porting add "U" to end of Model#

Type 6000

- ▲ 1:1 signal to output relay
- ▲ 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 construction
- ▲ EPDM or silicone elastomer options



Volume Booster

Supply & Signal Pressure	150 psig (10 BAR) max.
Max Flow Coefficients (Cv)	Supply 3.0 / Exhaust 3.0
Flow Capacity	115 SCFM (3,450 NL/min)
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)
EPDM Option "R"	-40° to 230°F (-40° to 110°C)
Silicone	-60° to 230°F (-51° to 110°C)
Signal Port	1/4" NPT
Supply/Output Port	1/2" or 3/4" NPT

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

Type 6100

- ▲ 1/4", 1/2", 3/4" NPT porting
- ▲ Two 1/4" NPT gauge ports
- ▲ Integral adjustable bypass valve
- ▲ High flow capacity
- ▲ Soft valve seat design
- ▲ High temperature operation
- ▲ Two high output exhaust vents
- ▲ Two 1/4" NPT gauge ports



High Flow Capacity Volume Booster

Signal/Output Ratio	1:1
Supply Pressure	250 psig (17.0 BAR) max.
Signal Pressure	150 psig (10.0 BAR) max.
Maximum Flow Coefficients (Cv)	Port NPT Forward Exhaust
	3/4" 5.0 3.5
	1/2" 4.5 3.5
	1/4" 2.0 2.5
Exhaust Capacity SCFM (NL/min)	3/4" 80 (2,264 NL/min)
	1/2" 75 (2,123 NL/min)
	1/4" 35 (991 NL/min)
Output Accuracy	1.0% of 100 psi output span
Sensitivity Inch wc (cm)	1" (2.54)
Supply Pressure Effect	0.1 psig (0.007 BAR) for a 25 psig (1.7 BAR) change
Signal Port	1/4" NPT
Supply/Output Port	1/4", 1/2", or 3/4" NPT
Exhaust Port	ø7/16" or 1/4" NPT option
Gauge Port (2)	1/4" NPT

Type 6500/6600

- ▲ 1:1 signal to output relays utilized in high flow applications
- ▲ Aluminum or 316 stainless steel construction
- ▲ 3/4" or 1" NPT porting
- ▲ SIL3 certifications
- ▲ Integral adjustable bypass valve
- ▲ High temperature option
- ▲ Soft valve seat design
- ▲ Tapped high output exhaust port
- ▲ Two gauge ports - optional output feedback port
- ▲ Low temperature option



Large Flow Capacity Volume Booster

Signal/Output Ratio	1:1
Supply Pressure	250 psig (17.0 BAR) Maximum
Signal Pressure	150 psig (10.0 BAR) Maximum
Maximum Flow Coefficients:	3/4" Forward: 6.0; Exhaust 5.0
	1" Forward: 7.0; Exhaust 5.0
Flow Capacity:	3/4" 350 SCFM (9,905 NL/min);
	1" 400 SCFM (11,320 NL/min)
	100 psig (7 BAR) supply,
	20 psig (1.4 BAR) output
Signal to Output Ratio Accuracy:	2.0% (% of 100 psi output span)
Ratio Accuracy:	1.5% (% of 15 psi output span)
Temperature Limits	-40 to 200° F (-40 to 93° C)
Low Temperature Limits	-62 to 194° F (-52 to 90° C)
Deadband	Under 0.2 psig (.01 BAR)
Supply Pressure Effect	0.3 psig (.02 BAR)

In/Out Port	Construction	Model #
3/4" NPT	Aluminum	6500-EA
1" NPT	Aluminum	6500-FA

In/Out Port	Construction	Model #
3/4" NPT	Stainless Steel	6600-ES
1" NPT	Stainless Steel	6600-FS

Air Relays

Type 200

- ▲ 1:1 relay with positive and negative biasing adjustment capability.
- ▲ Accurately and quickly produces 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 (NL/min)	14 (420)
Exhaust Capacity SCFM (NL/min)	
Standard Relief	2.0 (60)
High Relief Capacity	10 (300)
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/BSP	Max. Output Pressure psig (BAR)	Model#
1/4	2-120 (0.14-8)	200-BC/200-BCU
3/8	2-120 (0.14-8)	200-CC/200-CCU
High Relief Capacity		
1/4	2-120 (0.14-8)	210-BC/210-BCU
3/8	2-120 (0.14-8)	210-CC/210-CCU

Type 250

- ▲ Captures downstream pressure when the supply pressure falls below a set value
- ▲ Two pressure ranges 15-60 psig (1-4 BAR) or 30-120 psig (2-8 BAR)
- ▲ Manual relief valve
- ▲ Corrosion-resistance construction
- ▲ Aluminum or stainless steel material option
- ▲ No leakage in lock-up position



Lock-up Air Relay

Cut-off Pressure Range psig (BAR)	15-60 (1-4)
Supply Pressure max. psig (BAR)	125 (8.35)
Temperature Limits:	0° to 160°F (-18° to 71°C)
Port Size NPT	1/4"

Set Point Range psig (BAR)	Part Number	Construction
15-60 (1-4)	250-AA	Aluminum
30-120 (2-8)	250-BA	Aluminum
15-60 (1-4)	250-AS	Stainless Steel
30-120 (2-8)	250-BS	Stainless Steel

Type 650

- ▲ Output pressure is the sum of the input signal pressure plus an adjustable 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 (NL/min)	50 (1,500)
Exhaust Capacity SCFM (NL/min)	15.0 (450)
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/BSP	Bias Range PSI (BAR)	Model# NPT/BSP
1/4	0-15 (0-1)	650-BC/650-BCU
1/4	0-30 (0-2)	650-BD/650-BDU
1/4	0-60 (0-4)	650-BE/650-BEU
1/4	0-150 (0-10)	650-BF/650-BFU

Valve Positioner

Type 2000



Pneumatic and Electro-Pneumatic Valve Positioner

- ▲ **Modular construction**
Base pneumatic unit can be quickly field converted to a fully optional electro-pneumatic unit.
- ▲ **Rotary and linear, single and double acting**
- ▲ **External and zero adjustment for easy calibration**
- ▲ **Compact design**
Small size and low weight
- ▲ **Vibration, position and shock insensitive**
- ▲ **Namur rotary mounting kits**
- ▲ **Linear mounting kits for most valves**
- ▲ **Stainless steel spool valve**
Long operating life
- ▲ **High gain pilot valve**
Provides quick and accurate valve/actuator response
- ▲ **Standard pointed indicator (rotary), standard blank cover (linear) and optional raised beacon**
- ▲ **High maximum supply pressure**
145 psig (10 Bar)
- ▲ **FM, CSA & ATEX approvals**
For Intrinsically Safe (CA2010/CA2011) and Explosion-proof (CA2020/CA2021) operation
- ▲ **Optional mechanical switches and 4-20mA position feedback**

Functional Specifications

Type-2000	Pneumatic (CA2000)		Electro-Pneumatic (CA2005/CA2010/CA2011)	
Input Signal	3-15 PSI (0.2-1.0 Bar)		4-20 mA (Ri<250 ohms)	
Supply Pressure	<145 PSI (<10 Bar)		21.8-145 PSI (1.5-10 Bar)	
Linearity Error	<0.7 % f.s		<1.0% f.s	
Hysteresis	<0.4% f.s		<0.6% f.s	
Repeatability	<0.3% f.s		<0.5% f.s	
Pressure Gain	750 P out/P in		750 P out/P in	
Flow Capacity	SCFM	NI/min	SCFM	NI/min
@29 PSI (2.0 Bar)	9.5	268.9	9.5	268.9
@87 PSI (6.0 Bar)	28.3	800.1	28.3	800.1
@145 PSI (10 Bar)	47.1	1333	47.1	1333
Air Consumption	SCFM	NI/min	SCFM	NI/min
@29 PSI (2.0 Bar)	0.18	5.09	0.2	5.7
@87 PSI (6.0 Bar)	0.53	424.5	0.6	17.0
@145 PSI (10 Bar)	0.88	707.5	1.0	28.3
Impedance			260 Ohms @ 70 ° F	
Loop Load			5.2 Volts @ 70 ° F	

Mechanical Switches (S & FS Option)

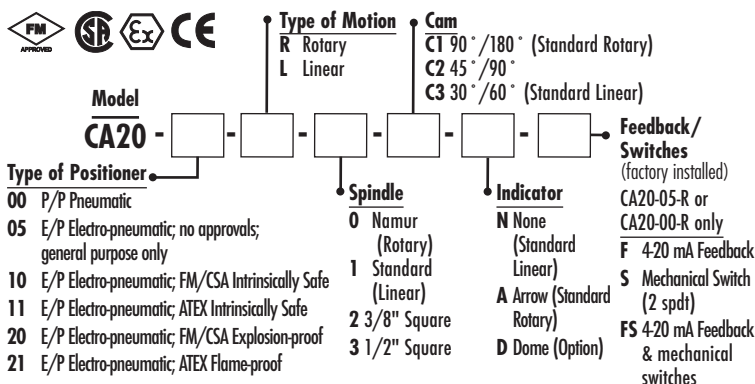
Input Signal	Honeywell V15505-CZ100 A05-01
Switch Type	SPDT
Loop Load	5A 125/ 250 VAC/ 0.1A 48 Vdc
Operating Force	100gf

Position Feedback (F & FS Option)

Voltage Supply	12-30 Vdc
Output	2 Wire; 4-20 mA DC
Loop Impedance	Max. 700Ω @ 24 Vdc
Linearity Error	<1.5% F.S.
Hysteresis Error	<0.5% F.S.

Physical Specifications

Temperature Range	-40° to 185° F (-40° to 85° C)		
Port Sizes	Pneumatic: 1/4" NPT; Gauge Ports - 1/8" NPT Electric: 1/2" NPT; M20-1.5 (ATEX)		
Media	Clean, dry, oil-free instrument air, filtered to 40 micron		
Enclosure	Nema 4X / IP66 aluminum with polyester epoxy finish		
Weight	3.5 lbs (1.6 kg) 5.1 lbs (2.3 kg)	3.8 lbs (1.7 kg) 5.4 lbs (2.5 kg) 4.8 lbs (2.2 kg)	CA2005/CA2010/CA2011 CA2005 with feedback CA2020/CA2011



- ▲ Stable and accurate positioning of rotary and linear valves
- ▲ Simple, reliable and user friendly for calibration, maintenance and field upgrades

- ▲ Available with worldwide safety approvals in an Intrinsically Safe and Explosion-proof version
- ▲ The NEMA-4X (IP 66) housing provides rugged resistance to severe industrial environments

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
- ▲ Foot & clevis mounts
- ▲ Singel acting & double acting optional
- ▲ Ultra cylinders available with linear ball bearings
- ▲ Standard units are easily modified to meet individual customer requirements

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