

# BELLOFRAM<sup>®</sup>

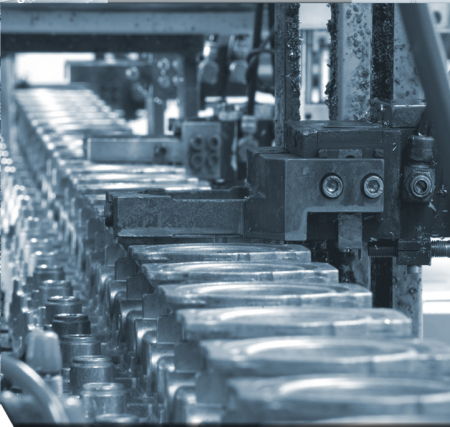
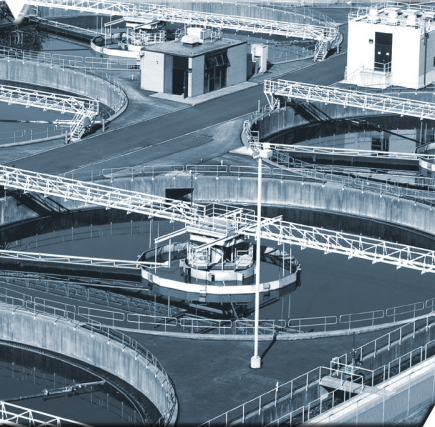
## Precision Controls

AIR REGULATION

AUTOMATION

PRECISION CONTROL

PRESSURE CONTROLS



ACCURATE

COMPACT

PRECISE

RESPONSIVE

STABLE



# STAINLESS STEEL REGULATORS & FILTERS

Precision Controls Stainless Steel Solutions—engineered to deliver exceptional performance, corrosion resistance, and reliability across demanding applications, from industrial processes to critical medical environments.



## TYPE 62:

- All SS316L stainless steel material
- Seven port sizes of 1/4" to 2" NPTF
- High flow rate 1.5, 1/4" to 9.9, 2" CV
- Five pressure ranges between 3 & 250 psig
- Low temp nitrile elastomers -76°F/+176°F

**Applications:** Medical & Bio-Medical, Instrument & Sampling Panels, Corrosive & Caustic Mediums, Industrial & Specialty Gas Handling Pharmaceutical Processing Equipment, and Food & Beverage Facilities & Equipment



## TYPE 64:

- All SS316L stainless steel material
- Seven port sizes of 1/4" to 2" NPTF
- 25µ stainless steel filter standard
- High flow rate: For 1/4" CV is 1.44 & 3/4" CV is 3.62
- Low temp nitrile elastomers -76°F/+176°F

**Applications:** Medical & Bio-Medical, Instrument & Sampling Panels, Corrosive & Caustic Mediums, Industrial & Specialty Gas Handling Pharmaceutical Processing Equipment, and Food & Beverage Facilities & Equipment



## TYPE 66:

- All SS316L stainless steel material
- Four port sizes of 1/4" to 3/4" NPT
- 25µ stainless steel filter standard
- High flow rate 1.3, 1/4" to 6.4, 3/4" CV
- Five pressure ranges between 3 & 250 psig
- Low temp nitrile elastomers -76°F/+176°F

**Applications:** Medical & Bio-Medical, Instrument & Sampling Panels, Corrosive & Caustic Mediums, Industrial & Specialty Gas Handling Pharmaceutical Processing Equipment, and Food & Beverage Facilities & Equipment



## TYPE 68:

- All SS316L stainless steel material
- Three port sizes of 1/4" to 1/2" NPTF
- High flow rate 0.60, 1/4" to 2.0, 1/2" CV
- Low temp nitrile elastomers -76°F/+176°F

**Applications:** Instrument & Sampling Panels, Corrosive & Caustic Mediums, Industrial & Specialty Actuator Control, and Food & Beverage Facilities & Equipment

## REGULATORS

Precision Controls direct-acting, high-performance pressure regulators offer precise control, high accuracy, maximum stability, and large flow and exhaust capabilities to support even the most challenging OEM and industrial applications.



## TYPE 10:

- Highly accurate pressure regulation to 0.1%
- Pressure ranges from 0.5 to 120 psig
- Especially good performance from dead end to 12 SCFM

**Applications:** Cylinder Loading, Valve Operators, and Web Tensioning



## TYPE 70:

- High flow capacity – up to 80 SCFM
- Pressure ranges from 0–200 psig
- Low output effect with supply pressure changes
- May be used in place of a standard relief valve

**Applications:** Pressure Cylinder Control and Precision High-Flow Back Pressure Relief



## TYPE 40:

- Pressure ranges from 0 to 120 psig
- Rugged, corrosion-resistant construction
- Self-relieving
- Several mounting options

**Applications:** Air Cylinders and Actuators, Medical Ventilation, and Anesthetic Dispensing



## TYPE 92:

- Pressure ranges from 0 to 100 psig
- Measures only 3.5" and 2.8oz.
- Corrosion-resistant, anodized aluminum body
- Excellent stability and repeatability

**Applications:** Highly Corrosive Environments or Applications Requiring a Small Footprint

# I/P & E/P TRANSDUCERS

Electro-pneumatic transducers from Precision Controls convert electrical signals into proportional pressures for controlling valves, pneumatic relays, and flow regulators in various industrial applications.



## TYPE 1000:

- 1.0% full scale accuracy
- Built-in volume booster to provide flow capacities up to 12 SCFM
- Wide range of supply pressures, from 3 psig above the maximum output up to 100 psig
- Convenient external span & zero adjusts
- Field reversible

**Applications:** Split-Ranging, Valve Actuators/Positioners, HVAC, Paper Handling Controls, Energy Management Systems, Petrochemical Processing Systems



## TYPE 1500:

- 0.5% full scale accuracy
- Electrical connections: conduit 1/2" NPT or BSPT, terminal block, Hirschmann® Connectors (DIN 43 650-A)
- Supply/output ports on front and back of unit
- Electrical conduit connection meets CE requirements
- Intrinsically safe versions (FM, CSA, ATEX)
- NEMA 4X version (FM, CSA)

**Applications:** Valve Actuators/Positioners, HVAC, Material Handling, Paper Handling Controls, Liquid and Gas Processing



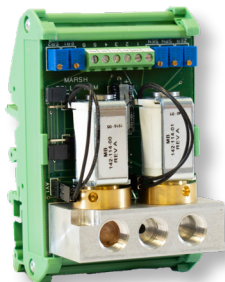
## TYPE 40:

- $\pm 0.1\%$  of full-scale output typical
- Available pressures to 120 psig
- High immunity to EMI/RFI
- Insensitivity to extreme temperature and supply pressure fluctuations, vibration, and orientation
- NEMA 4X, CE, FM and ATEX (Intrinsically Safe) approved versions (S Model)
- Explosion-proof and dust-ignition proof versions (EX Model)

**Applications:** Valve Actuators/Positioners, Clutch and Brake Controls, Chemical and Oil Processing

# ELECTRO PNEUMATIC CONTROLS

Precision Controls designs and manufactures a complete line of servo pressure controllers, including both traditional and analog circuit card models, to suit a variety of OEM, industrial, HVAC and medical device and equipment process control applications.



## 3100 SERIES:

- 0.5% full scale accuracy
- Forward flow up to 1.2 SCFM
- Analog monitor output ranges from 29" Hg to 600 psig
- High-precision air regulation capabilities in an analog circuit card format

**Applications:** HVAC and Oxygen for Plasma Cutting Machines



## 3500 SERIES:

- 0.1% full scale accuracy
- Forward flow 12 SCFM at 100 psig
- Digital display
- Digital or analog inputs
- Single and dual-loop control

**Applications:** Molding and Forming Operations and Actuator Control



## 3700 SERIES:

- 0.1% full scale accuracy
- Forward flow up to 247 SCFM
- LED display for monitoring output pressure
- Output pressure is maintained in the event of power loss
- IP65 class protection

**Applications:** Control Panels and Industrial Ovens



# RELAYS & BOOSTERS

Air relays and volume boosters from Precision Controls enhance pneumatic system performance by amplifying air pressure and flow to improve control response times and efficiency.



## TYPE 20:

- 1/8", 1/4", and 3/8" port sizes
- Flow capacity of 14 SCFM
- Positive and negative bias up to 25 psig
- Extremely accurate relay
- Rugged and stable
- High Relief option available

**Applications:** Control Valves, Tensioning Control, Remote Positioning Devices, Gate Actuators, Air Hoists



## TYPE 75:

- 150 psig output
- Flow capacity of 40 SCFM
- Signal to output pressure ratios of 1:1, 1:2, 1:4 and 1:6 are available
- Field serviceable
- Can be disassembled and serviced without removing from line
- High Relief and Negative Bias options available

**Applications:** Tensioning Control, Clutch and Brake Controls, Gas Flow Control, Calendar Roll Loading



## TYPE 79:

- 3/8", 1/2", 3/4", and 1" port sizes
- 200 psig output
- High flow capacity – up to 125 SCFM
- Field serviceable
- Air piloted or dome loaded
- High Relief (Type 79HR) and Valve Control (Type 79V) options available

**Applications:** Tensioning Control, Clutch and Brake Controls, Gas Flow Control, Calendar Roll Loading

## ENGINEERING EXCELLENCE IS OUR BUSINESS.

ACCURATE

COMPACT

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Specializing in Monitoring, Measuring, & Regulating Products!

