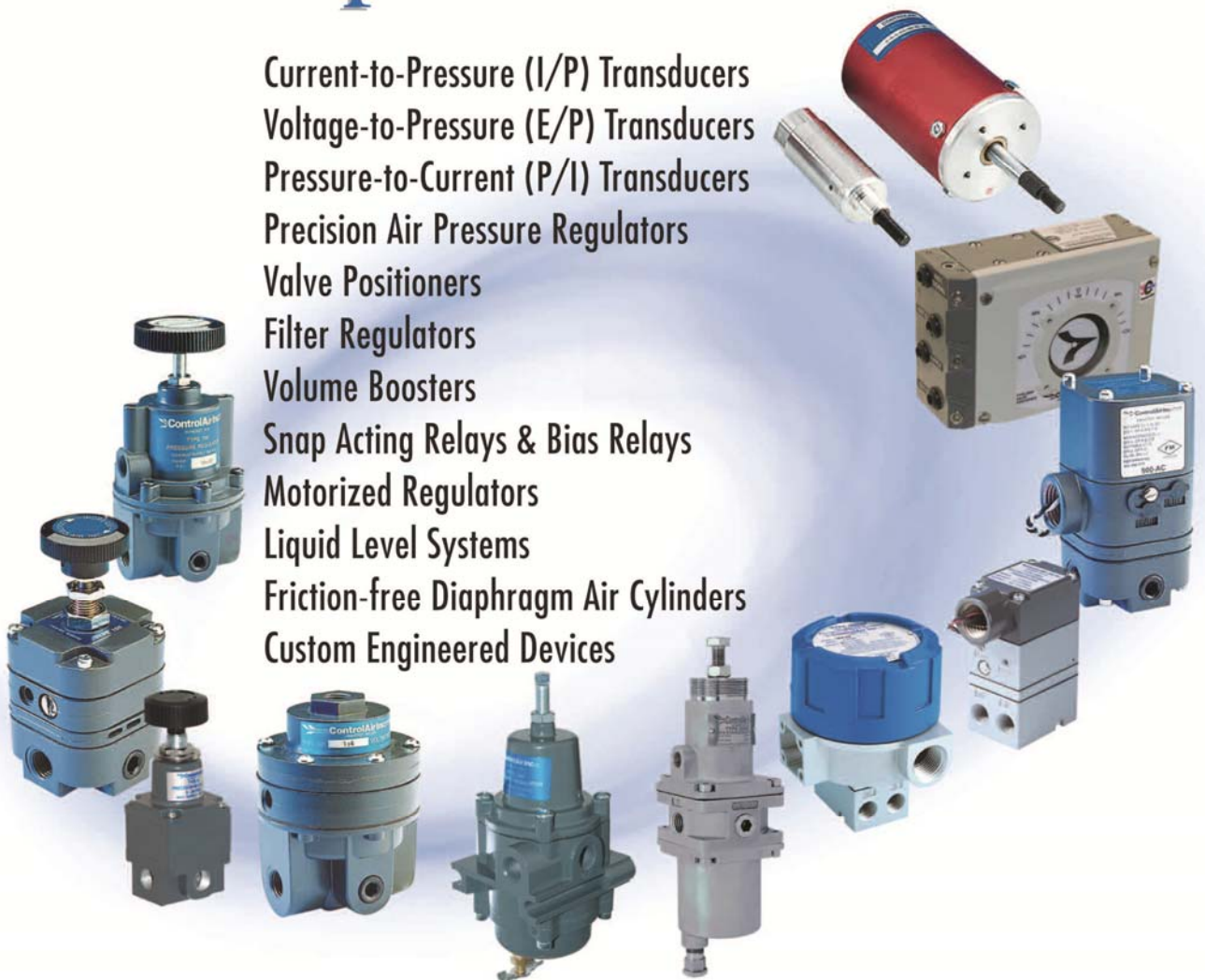


Parts Catalog

January 2016
Rev. 2

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
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Motorized Regulators
Liquid Level Systems
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REGULATORS

Type-90 Miniature Precision Air Pressure Regulator

| Model No. | Port | Range PSI (BAR) |
|-----------|----------|-------------------|
| 90-AA | 1/8 NPT | 0.70-30 (0.05-2) |
| 90-AB | 1/8 NPT | 1.40-60 (0.10-4) |
| 90-AC | 1/8 NPT | 1.40-120 (0.10-8) |
| 90-UA | 1/8 BSP | 0.70-30 (0.05-2) |
| 90-UB | 1/8 BSP | 1.40-60 (0.10-4) |
| 90-UC | 1/8 BSP | 1.40-120 (0.10-8) |
| 90-XA | Manifold | 0.70-30 (0.05-2) |
| 90-XB | Manifold | 1.40-60 (0.10-4) |
| 90-XC | Manifold | 1.40-120 (0.10-8) |

OPTIONS/ACCESSORIES:

| Gauges: | Range PSI (BAR) | NPT P/N | BSP P/N |
|---------|-----------------|-------------|-------------|
| | 0-30 (0-2) | 446-725-006 | 446-725-030 |
| | 0-60 (0-4) | 446-725-007 | 446-725-031 |
| | 0-160 (0-11) | 446-725-008 | 446-725-032 |

Mounting Bracket: **P/N 436-707-075**

Type-100 Precision Adjustable

| Model No. | Port (NPT) | Range PSI (BAR) |
|------------------------|------------------|------------------|
| 100-AA, 100-BA, 100-CA | 1/8", 1/4", 3/8" | 2-40 (0.14-2.8) |
| 100-AB, 100-BB, 100-CB | 1/8", 1/4", 3/8" | 2-60 (0.14-4) |
| 100-AC, 100-BC, 100-CC | 1/8", 1/4", 3/8" | 2-120 (2.14-8.3) |

Type-100HR High Relief Capacity

| Model No. | Port (NPT) | Range PSI (BAR) |
|-----------|------------|------------------|
| 110-BC | 1/4" | 2-120 (0.14-8.3) |
| 110-CC | 3/8" | 2-120 (0.14-8.3) |

Type-100EHR Extra High Relief Capacity (Quiet Exhaust)

| Model No. | Port (NPT) | Range PSI (BAR) |
|-----------|------------|------------------|
| 111-BC | 1/4" | 2-120 (0.14-8.3) |
| 111-CC | 3/8" | 2-120 (0.14-8.3) |

Type-100LR Low Range

| Model No. | Port (NPT) | Range PSI (BAR) |
|-----------|------------|------------------|
| 120-BA | 1/4" | .5-25 (0.03-1.7) |

Note: 50 PSI Maximum Supply Pressure

Type-100BP Bottom Ported

| Model No. | Port (NPT) | Range PSI (BAR) |
|-----------|------------|------------------|
| 140-BA | --- | 2-40 (0.14-2.7) |
| 140-BB | --- | 2-60 (0.14-4) |
| 140-BC | --- | 2-120 (2.14-8.3) |

Type-100PL Plunger Operated

| Model No. | Port (NPT) | Range PSI (BAR) |
|------------------------|------------------|------------------|
| 150-AA, 150-BA, 150-CA | 1/8", 1/4", 3/8" | 2-40 (0.14-2.7) |
| 150-AB, 150-BB, 150-CB | 1/8", 1/4", 3/8" | 2-60 (0.14-4) |
| 150-AC, 150-BC, 150-CC | 1/8", 1/4", 3/8" | 2-120 (2.14-8.3) |

OPTIONS/ACCESSORIES: Type-100, 100HR, 100BP, 100PL:

Tamper Proof Cover (Add **T** to Model No.)
Tapped Exhaust (Add **E** to Model No.)
BSP Porting (Add **U** to Model No.)

Gauges: (1/4" NPT back mount, 2" dual scale)

| Range PSI (BAR) | Part Number |
|-----------------|-----------------|
| 0-15 (0-1) | P/N 446-725-003 |
| 0-30 (0-2) | P/N 446-725-004 |
| 0-60 (0-4) | P/N 446-725-001 |
| 0-160 (0-11) | P/N 446-725-002 |

Mounting Bracket: **P/N 446-707-045**

Type-100M Motorized Precision Regulator

Model Number = **130** - (port size) (pressure range) (motor specification)

Port size: **A** (1/8" NPT), **B** (1/4" NPT) or **C** (3/8" NPT)

Pressure Range (psig): **A** (2-40), **B** (2-60) or **C** (2-120)

Motor:

A (2 RPM, 110 VAC), **F** (6 RPM, 24 VDC) or **G** (6 RPM, 12 VDC)
B (6 RPM, 110 VAC), **C** (6 RPM, 220 VAC)

Type-100MLR Low Range Motorized Regulator

Note: 50 PSI Maximum Supply Pressure

Model Number = **130** - (port size) (pressure range) (motor specification)

Port size: **B** (1/4" NPT)

Pressure Range (psig): **D** (.5-25)

Motor:

A (2 RPM, 110 VAC), **F** (6 RPM, 24 VDC) or **G** (6 RPM, 12 VDC)
B (6 RPM, 110 VAC), **C** (6 RPM, 220 VAC)

Type-100MHR High Relief Capacity Motorized Regulator

Model Number = **130** - (port size) (pressure range) (motor specification)

Port size: **B** (1/4" NPT) or **C** (3/8" NPT)

Pressure Range (psig): **E** (2-120 High Relieving)

Motor:

A (2 RPM, 110 VAC), **F** (6 RPM, 24 VDC) or **G** (6 RPM, 12 VDC) .
B (6 RPM, 110 VAC), **C** (6 RPM, 220 VAC)

OPTIONS/ACCESSORIES: Type-100M, 100MLR, 100MHR:

Tapped Exhaust (Add **E** to Model No.)

1/4" BSP Porting (Add **U** to Model No.)

Gauge: (see Type-100 gauges for part numbers)

Type-300 Instrument Air Filter Regulator

| Model No. | Port (NPT) | Range PSI (BAR) |
|-----------|------------|-----------------|
| 300-BD | 1/4" | 0-10 (0-0.70) |
| 300-BA | 1/4" | 0-30 (0-2) |
| 300-BB | 1/4" | 0-60 (0-4) |
| 300-BC | 1/4" | 0-120 (0-8) |

Type-300 NACE Filter Regulator

| Model No. | Port (NPT) | Range PSI (BAR) |
|-----------|------------|-----------------|
| 310-BA | 1/4" | 0-30 (0-2) |
| 310-BB | 1/4" | 0-60 (0-4) |
| 310-BC | 1/4" | 0-100 (0-7) |

Type-300 Filter Only

| Model No. | Port (NPT) |
|-----------|------------|
| 320-BX | 1/4" |

OPTIONS/ACCESSORIES: Type-300:

Knob (Add **K** to Model No.)

Low-Temperature Operation (Add **J** to Model No.)

5 Micron Filter (Type-300 & 320 only) (Add **F** to Model No.)

Non-Relieving (Add **N** to Model No.)

Panel Mount (Add **P** to Model No.)

Stainless Steel Trim (Add **S** to Model No.)

Tamper Proof Cover (Add **T** to Model No.)

Tapped Exhaust (Add **E** to Model No.)

Viton Elastomers (Add **V** to Model No.)

Note: Options **J** and **V** cannot be combined

ATEX 94/9/EC Approval II 2 GD (Add **X** to Model No.)

Gauges: (1/4" NPT back mount, 2" dual scale)

| Range PSI (BAR) | Part Number |
|-----------------|-----------------|
| 0-15 (0-1) | P/N 446-725-003 |
| 0-30 (0-2) | P/N 446-725-004 |
| 0-60 (0-4) | P/N 446-725-001 |
| 0-160 (0-11) | P/N 446-725-002 |

Mounting Bracket: **P/N 446-707-028**

Type-330 Instrument Air Filter Regulator

| Model No. | Port | Output Range PSI (BAR) | Gauge Ports |
|-----------|------|------------------------|-------------|
| 330-BAB | 1/4" | 0-30 (0-2) | 2 |
| 330-BBB | 1/4" | 0-60 (0-4) | 2 |
| 330-BCB | 1/4" | 0-120 (0-8) | 2 |
| 330-DAB | 1/2" | 0-30 (0-2) | 2 |
| 330-DBB | 1/2" | 0-60 (0-4) | 2 |
| 330-DCB | 1/2" | 0-120 (0-8) | 2 |

Type-335 NACE Filter Regulator

| Model No. | Port (NPT) | Range PSI (BAR) |
|-----------|------------|-----------------|
| 335-BAB | 1/4" | 0-30 (0-2) |
| 335-BBB | 1/4" | 0-60 (0-4) |
| 335-BCB | 1/4" | 0-100 (0-7) |

Type-340 Instrument Air Regulator

| Model No. | Port | Output Range PSI (BAR) | Gauge Ports |
|-----------|------|------------------------|-------------|
| 340-BA | 1/4" | 0-30 (0-2) | 2 |
| 340-BB | 1/4" | 0-60 (0-4) | 2 |
| 340-BC | 1/4" | 0-120 (0-8) | 2 |
| 340-DA | 1/2" | 0-30 (0-2) | 2 |
| 340-DB | 1/2" | 0-60 (0-4) | 2 |
| 340-DC | 1/2" | 0-120 (0-8) | 2 |

OPTIONS/ACCESSORIES: Type-330/335/340:

Automatic Drain (Type-330 only) (Add **A** to Model No.)
Tapped Exhaust (Add **E** to Model No.)
5 Micron Filter (Type-330 & 335 only) (Add **F** to Model No.)
Low-Temperature Operation (Add **L** to Model No.)

Note: Options **A** and **L** cannot be combined

Knob (Add **K** to Model No.)
Non-Relieving (Add **N** to Model No.)
Panel Mount (Add **P** to Model No.)
ATEX 94/9/EC Approval II 2 GD (Add **X** to Model No.)

Gauges: (1/4" NPT back mount, 2" dual scale)

| Range PSI (BAR) | Part Number: |
|-----------------|------------------|
| 0-15 (0-1) | P/N 446-725-003 |
| 0-30 (0-2) | P/N 446-725-004 |
| 0-60 (0-4) | P/N 446-725-001. |
| 0-160 (0-11) | P/N 446-725-002. |

Mounting Bracket: **P/N 446-707-028**

Type-350SS Stainless Steel Filter Regulator

| Model No. | Port (NPT) | Output Range PSI (BAR) |
|-----------|------------|------------------------|
| 350-BA | 1/4" | 0-30.0 (0-2.0) |
| 350-BB | 1/4" | 0-60.0 (0-4.0) |
| 350-BC | 1/4" | 0-100.0 (0-7.0) |
| 350-BD | 1/4" | 0-150.0 (0-10.0) |
| 350-DA | 1/2" | 0-30.0 (0-2.0) |
| 350-DB | 1/2" | 0-60.0 (0-4.0) |
| 350-DC | 1/2" | 0-100.0 (0-7.0) |
| 350-DD | 1/2" | 0-150.0 (0-10.0) |

Type-360SS Stainless Steel Regulator

| Model No. | Port (NPT) | Output Range PSI (BAR) |
|-----------|------------|------------------------|
| 360-BA | 1/4" | 0-30.0 (0-2.0) |
| 360-BB | 1/4" | 0-60.0 (0-4.0) |
| 360-BC | 1/4" | 0-100.0 (0-7.0) |
| 360-BD | 1/4" | 0-150.0 (0-10.0) |
| 360-DA | 1/2" | 0-30.0 (0-2.0) |
| 360-DB | 1/2" | 0-60.0 (0-4.0) |
| 360-DC | 1/2" | 0-100.0 (0-7.0) |
| 360-DD | 1/2" | 0-150.0 (0-10.0) |

Type-370SS Stainless Steel Filter (non-relieving)

| Model No. | Port (NPT) |
|-----------|------------|
| 370-BX | 1/4" |
| 370-DX | 1/2" |

OPTIONS/ACCESSORIES: Type-350/360/370SS Series:

Non-Relieving (Add **N** to Model No.)
5 Micron Filter (Add **F** to Model No.)
Automatic Drain (Type 350 & 370) (Add **A** to Model No.)
Low Temperature Operation (Add **L** to Model No.)

Note: Options **A** and **L** cannot be combined

Knob (Add **K** to Model No.)
ATEX 94/9/EC Approval II 2 GD (Add **X** to Model No.)
1/8" NPT Exhaust Screen Fitting: P/N 445-761-005

| Gauges: Range PSI (BAR) | Part Number |
|-------------------------|-----------------|
| 0-30 (0-2) | P/N 445-725-019 |
| 0-60 (0-4) | P/N 445-725-020 |
| 0-160 (0-8) | P/N 445-725-021 |

Mounting Bracket Kit (includes panel nut) **P/N 448-542-011**

Panel Nut: **P/N: 446-734-052**

Type-380SS Stainless Steel Filter Regulator

| Model No. | Port (NPT) | Output Range PSI (BAR) |
|-----------|------------|------------------------|
| 380-EA | 3/4" | 0-30 (0-2) |
| 380-EB | 3/4" | 0-60 (0-4) |
| 380-EC | 3/4" | 0-100 (0-7) |
| 380-ED | 3/4" | 0-150 (0-10) |
| 380-EE | 3/4" | 0-200 (0-14) |
| 380-FA | 1" | 0-30 (0-2) |
| 380-FB | 1" | 0-60 (0-4) |
| 380-FC | 1" | 0-100 (0-7) |
| 380-FD | 1" | 0-150 (0-10) |
| 380-FE | 1" | 0-200 (0-14) |

Type-390SS Stainless Steel Regulator

| Model No. | Port (NPT) | Output Range PSI (BAR) |
|-----------|------------|------------------------|
| 390-EA | 3/4" | 0-30 (0-2) |
| 390-EB | 3/4" | 0-60 (0-4) |
| 390-EC | 3/4" | 0-100 (0-7) |
| 390-ED | 3/4" | 0-150 (0-10) |
| 390-EE | 3/4" | 0-200 (0-14) |
| 390-FA | 1" | 0-30 (0-2) |
| 390-FB | 1" | 0-60 (0-4) |
| 390-FC | 1" | 0-100 (0-7) |
| 390-FD | 1" | 0-150 (0-10) |
| 390-FE | 1" | 0-200 (0-14) |

OPTIONS/ACCESSORIES: Type-380/390SS Series:

5 Micron Filter (Add **F** to Model No.)
Automatic Drain (Type 380 only) (Add **A** to Model No.)
ATEX 94/9/EC Approval II 2 GD (Add **X** to Model No.)
1/8" NPT Exhaust Screen Fitting: P/N 445-761-005

| Gauges: Range PSI (BAR) | Part Number |
|-------------------------|-----------------|
| 0-30 (0-2) | P/N 445-725-019 |
| 0-60 (0-4) | P/N 445-725-020 |
| 0-160 (0-8) | P/N 445-725-021 |

Type-3500 High Pressure Regulator (non-relieving)

| Model No. | Adjustment | Output Range PSIG (BAR) |
|-----------|------------|-------------------------|
| 3500-BC | socket | 0-125 (0-8.5) |
| 3500-CC | T-handle | 0-125 (0-8.5) |
| 3500-BD | socket | 0-150 (0-10) |
| 3500-CD | T-handle | 0-150 (0-10) |
| 3500-BE | socket | 0-225 (0-15) |
| 3500-CE | T-handle | 0-225 (0-15) |

Type-400 General Service Adjustable

| Model No. | Port (NPT) | Range PSIG (BAR) |
|-----------|------------|------------------|
| 400-BD | 1/4" | 0-10 (0-0.7) |
| 400-BA | 1/4" | 0-30 (0-2) |
| 400-BB | 1/4" | 0-60 (0-4) |
| 400-BC | 1/4" | 0-120 (0-8) |

OPTIONS/ACCESSORIES: Type-400:

Knob (Add **K** to Model No.)
Non-Relieving (Add **N** to Model No.)
Stainless Steel Adjust Screw (Add **S** to Model No.)
Tamper Proof Cover (Add **T** to Model No.)
Tapped Exhaust (Add **E** to Model No.)
Viton Elastomers (Add **V** to Model No.)
ATEX 94/9/EC Approval II 2 GD (Add **X** to Model No.)

| Gauges: (1/4" NPT back mount, 2" dual scale) | Range PSI (BAR) | Part Number |
|--|-----------------|------------------|
| | 0-15 (0-1) | P/N 446-725-003 |
| | 0-30 (0-2) | P/N 446-725-004 |
| | 0-60 (0-4) | P/N 446-725-001 |
| | 0-160 (0-11) | P/N 446-725-002. |

Mounting Bracket: **P/N 446-707-028**

Type- 700 High Flow Capacity

| Model No. | Porting | Range PSI (BAR) |
|----------------|------------|-----------------|
| 700-BA, 700-CA | 1/4", 3/8" | 0-2 (0-0.14) |
| 700-BC, 700-CC | 1/4", 3/8" | 0-15 (0-1) |
| 700-BD, 700-CD | 1/4", 3/8" | 0-30 (0-2) |
| 700-BE, 700-CE | 1/4", 3/8" | 0-60 (0-4) |
| 700-BF, 700-CF | 1/4", 3/8" | 0-150 (0-10) |
| 700-DA | 1/2" | 0-2 (0-0.14) |
| 700-DC | 1/2" | 0-15 (0-1) |
| 700-DD | 1/2" | 0-30 (0-2) |
| 700-DE | 1/2" | 0-60 (0-4) |
| 700-DF | 1/2" | 0-150 (0-10) |

OPTIONS/ACCESSORIES: Type-700:

Check Valve (Add **C** to Model No.)

High Bleed (Add **H** to Model No.)

Low Bleed (Add **L** to Model No.)

Non-Relieving (Add **N** to Model No.)

Note: Options **L**, **H** or **C** cannot be combined with Option **N**

Stainless Steel Adjust Screw (Add **S** to Model No.)

Tamper Proof Cover (Add **T** to Model No.)

Note: Options **S** and **T** cannot be combined

Note: Options **K** and **T** cannot be combined

Tapped Exhaust (Add **E** to Model No.)

BSP Porting (Add **U** to Model No.)

Knob with Stainless Steel Stem (Add **K** to Model No.)

ATEX 94/9/EC Approval II 2 GD (Add **X** to Model No.)

Gauges: (1/4" NPT back mount, 2" dual scale)

| Range PSI (BAR) | Part Number |
|-----------------|-----------------|
| 0-15 (0-1) | P/N 446-725-003 |
| 0-30 (0-2) | P/N 446-725-004 |
| 0-60 (0-4) | P/N 446-725-001 |
| 0-160 (0-11) | P/N 446-725-002 |

Mounting Bracket: **P/N 446-707-025**

Type- 700BP Back Pressure

| Model No. | Porting | Range PSI (BAR) |
|----------------|------------|-----------------|
| 710-BA, 710-CA | 1/4", 3/8" | 0-2 (0-0.14) |
| 710-BC, 710-CC | 1/4", 3/8" | 0-15 (0-1) |
| 710-BD, 710-CD | 1/4", 3/8" | 0-30 (0-2) |
| 710-BE, 710-CE | 1/4", 3/8" | 0-60 (0-4) |
| 710-BF, 710-CF | 1/4", 3/8" | 0-150 (0-8) |
| 710-DA | 1/2" | 0-2 (0-0.14) |
| 710-DB | 1/2" | 0-10 (0-0.7) |
| 710-DC | 1/2" | 0-15 (0-1) |
| 710-DD | 1/2" | 0-30 (0-2) |
| 710-DE | 1/2" | 0-60 (0-4) |
| 710-DF | 1/2" | 0-150 (0-8) |

OPTIONS/ACCESSORIES: Type-700BP:

Tamper Proof Cover (Add **T** to Model No.)

Tapped Exhaust (Add **E** to Model No.)

Knob with Stainless Steel Stem (Add **K** to Model No.)

Stainless Steel Adjust Screw (Add **S** to Model No.)

BSP Porting (Add **U** to Model No.)

ATEX 94/9/EC Approval II 2 GD (Add **X** to Model No.)

Gauges: (1/4" NPT back mount, 2" dual scale)

| Range PSI (BAR) | Part Number |
|-----------------|-----------------|
| 0-15 (0-1) | P/N 446-725-003 |
| 0-30 (0-2) | P/N 446-725-004 |
| 0-60 (0-4) | P/N 446-725-001 |
| 0-160 (0-11) | P/N 446-725-002 |

Mounting Bracket: **P/N 446-707-025**

Type- 800 Subminiature Precision Regulator

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

Type- 800M Manifold Mounted

| Model No. | Output Range PSI (BAR) |
|-----------|------------------------|
| 820-XA | 0-5 (0-0.4) |
| 820-XB | 0-15 (0-1) |
| 820-XC | 0-30 (0-2) |
| 820-XD | 0-60 (0-4) |
| 820-XE | 0-100 (0-7) |

Type- 800TP Threaded Post Mount

| Model No. | Output Range PSI (BAR) |
|-----------|------------------------|
| 830-XA | 0-5 (0-0.4) |
| 830-XB | 0-15 (0-1) |
| 830-XC | 0-30 (0-2) |
| 830-XD | 0-60 (0-4) |
| 830-XE | 0-100 (0-7) |

OPTIONS/ACCESSORIES: Type-800, 800M, 800TP:

Non-Relieving (Add **N** to Model No.) .

ATEX 94/9/EC Approval II 2 GD (Add **X** to Model No.)

10-32 UNF Barb Screw: **P/N 545-748-037**

Mounting Bracket: **P/N 445-707-043**

Type- 850 Miniature Air Regulator

| Model No. | Porting (NPT) | Output Range PSI (BAR) |
|----------------|---------------|------------------------|
| 850-AE, 850-BE | 1/8", 1/4" | 0-5 (0-0.4) |
| 850-AA, 850-BA | 1/8", 1/4" | 0-15 (0-1.0) |
| 850-AB, 850-BB | 1/8", 1/4" | 0-30 (0-2.0) |
| 850-AC, 850-BC | 1/8", 1/4" | 0-60 (0-4.0) |
| 850-AD, 850-BD | 1/8", 1/4" | 0-100 (0-7.0) |
| Porting (BSP) | | |
| 850-CE, 850-DE | 1/8", 1/4" | 0-5 (0-0.4) |
| 850-CA, 850-DA | 1/8", 1/4" | 0-15 (0-1.0) |
| 850-CB, 850-DB | 1/8", 1/4" | 0-30 (0-2.0) |
| 850-CC, 850-DC | 1/8", 1/4" | 0-60 (0-4.0) |
| 850-CD, 850-DD | 1/8", 1/4" | 0-100 (0-7.0) |

Type- 860 Miniature Air/Water Regulator (Non-Reliving)

| Model No. | Porting (NPT) | Output Range PSI (BAR) |
|------------------|---------------|------------------------|
| 860-AEN, 860-BEN | 1/8", 1/4" | 0-5 (0-0.4) |
| 860-AAN, 860-BAN | 1/8", 1/4" | 0-15 (0-1.0) |
| 860-ABN, 860-BBN | 1/8", 1/4" | 0-30 (0-2.1) |
| 860-ACN, 860-BCN | 1/8", 1/4" | 0-60 (0-4.2) |
| 860-ADN, 860-BDN | 1/8", 1/4" | 0-100 (0-6.9) |
| Porting (BSP) | | |
| 860-CEN, 860-DEN | 1/8", 1/4" | 0-5 (0-0.4) |
| 860-CAN, 860-DAN | 1/8", 1/4" | 0-15 (0-1.0) |
| 860-CBN, 860-DBN | 1/8", 1/4" | 0-30 (0-2.1) |
| 860-CCN, 860-DCN | 1/8", 1/4" | 0-60 (0-4.2) |
| 860-CDN, 860-DDN | 1/8", 1/4" | 0-100 (0-6.9) |

Type- 870 Miniature Food Grade Potable Water Regulator

| Model No. | Porting (NPT) | Output Range PSI (BAR) |
|------------------|---------------|------------------------|
| 870-AEN, 870-BEN | 1/8", 1/4" | 0-5 (0-0.4) |
| 870-AAN, 870-BAN | 1/8", 1/4" | 0-15 (0-1.0) |
| 870-ABN, 870-BBN | 1/8", 1/4" | 0-30 (0-2.1) |
| 870-ACN, 870-BCN | 1/8", 1/4" | 0-60 (0-4.2) |
| 870-ADN, 870-BDN | 1/8", 1/4" | 0-100 (0-6.9) |
| Porting (BSP) | | |
| 870-CEN, 870-DEN | 1/8", 1/4" | 0-5 (0-0.4) |
| 870-CAN, 870-DAN | 1/8", 1/4" | 0-15 (0-1.0) |
| 870-CBN, 870-DBN | 1/8", 1/4" | 0-30 (0-2.1) |
| 870-CCN, 870-DCN | 1/8", 1/4" | 0-60 (0-4.2) |
| 870-CDN, 870-DDN | 1/8", 1/4" | 0-100 (0-6.9) |

OPTIONS/ACCESSORIES: Type-850, Type-860, Type-870:

Non-Relieving: Type-850 (Add **N** to Model No) (optional)

Non-Relieving: Type-860 & 870 (Add **N** to Model No.) (standard)

| Gauges: | Range PSI (BAR) | Part Number |
|---------|-----------------|-----------------|
| | 0-15 (0-1) | P/N 446-725-005 |
| | 0-30 (0-2) | P/N 446-725-006 |
| | 0-60 (0-4) | P/N 446-725-007 |
| | 0-160 (0-11) | P/N 446-725-008 |

Panel Nut **P/N: 442-734-040**

Mounting Bracket: **P/N 446-707-034**

I/P, E/P TRANSDUCERS

Type-500X I/P Transducers - 1/2" NPT Conduit (standard)

| Model No. | Input | Output Range PSI (BAR) |
|-----------|----------|------------------------|
| 500-AA | 4-20 mA | 3-9 (0.2-0.6) |
| 500-AB | 4-20 mA | 9-15 (0.6-1) |
| 500-AC | 4-20 mA | 3-15 (0.2-1) |
| 500-AD | 4-20 mA | 3-27 (0.2-1.8) |
| 500-AE | 4-20 mA | 6-30 (0.4-2) |
| 500-AF | 4-20 mA | 1-17 (0.1-1.2) |
| 500-BC | 10-50 mA | 3-15 (0.2-1) |
| 500-BD | 10-50 mA | 3-27 (0.2-1.9) |
| 500-BE | 10-50 mA | 6-30 (0.4-2) |
| 500-AG | 4-20 mA | 2-60 (0.1-4) |
| 500-AH | 4-20 mA | 3-120 (0.2-8) |
| 500-BF | 0-60 mA | 2-120 (0.1-8) |

Type-500X E/P Transducers - 1/2" NPT Conduit (standard)

| Model No. | Input | Output Range PSI (BAR) |
|-----------|----------|------------------------|
| 500-CC | 0-5 VDC | 3-15 (0.2-1) |
| 500-CD | 0-5 VDC | 3-27 (0.2-1) |
| 500-CE | 0-5 VDC | 6-30 (0.4-2) |
| 500-DC | 1-9 VDC | 3-15 (0.2-1) |
| 500-DD | 1-9 VDC | 3-27 (0.2-1.9) |
| 500-DE | 1-9 VDC | 6-30 (0.4-2) |
| 500-CF | 0-5 VDC | 2-60 (0.1-4) |
| 500-EH | 0-10 VDC | 3-120 (0.2-8) |

OPTIONS/ACCESSORIES: Type-500X:

DIN 43650 Connector (Add **D** to Model No.).
 NEMA 4X Enclosure (Add **W** to Model No.)

Note: Options **D** and **W** cannot be combined

1/4" BSP Porting (Add **U** to Model No.)

Gauges: (1/4" NPT back mount, 2" dual scale)

| Range PSI (BAR) | Part Number |
|-----------------|-----------------|
| 0-15 (0-1) | P/N 446-725-003 |
| 0-30 (0-2) | P/N 446-725-004 |
| 0-60 (0-4) | P/N 446-725-001 |
| 0-160 (0-11) | P/N 446-725-002 |

Type-550X Transducers (I/P, E/P)

Standard Range

Model Number = 550 - (input) (output) (connection and/or option)

Example: 550 - ADT (4-20 mA, 3-27 psig and terminal block)

| Input | Output PSI (BAR) | Connection |
|--------------|--------------------|---------------------------|
| A = 4-20 mA | C = 3-15 (0.2-1) | A = 1/2" NPT conduit with |
| C = 0-5 VDC | D = 3-27 (0.2-1.9) | pigtail (standard) |
| D = 1-9 VDC | E = 6-30 (0.4-2) | D = Din 43650 Connector |
| E = 0-10 VDC | G = 2-60 (0.14-4) | M = M12 Connector |
| F = 1-5 VDC | H = 3-120 (0.2-8) | T = Terminal Block |

Zero-Based Range

Model Number = 550 - (input) (output) (connection and/or option)

Example: 550 - DJA (1-9 VDC, 0-60 psig and standard 1/2" NPT conduit)

| Input | Output PSI (BAR) | Connection |
|--------------|------------------|---------------------------|
| A = 4-20 mA | I = 0-30 (0-2) | A = 1/2" NPT conduit with |
| C = 0-5 VDC | J = 0-60 (0-4) | pigtail (standard) |
| D = 1-9 VDC | K = 0-120 (0-8) | D = Din 43650 Connector |
| E = 0-10 VDC | | M = M12 Connector |
| F = 1-5 VDC | | T = Terminal Block |

OPTIONS/ACCESSORIES: Type-550X:

ATEX Approval: 4 - 20mA units only (Add **K** to Model No.)

1/4" BSP Porting (Add **U** to Model No.)

DIN Rail Mounting Kit: **P/N: 445-766-024**

Pipe Mounting Kit: includes 1/2" and 2" brackets

P/N: 448-542-005

Type-590X I/P Transducer

| Model No. | Input | Output Range PSI (BAR) | Connection |
|-----------|---------|------------------------|------------|
| 590-ACP | 4-20 mA | 3-15 (0.2-1) | 1/8" NPT |
| 590-ADP | 4-20 mA | 3-27 (0.2-1.8) | 1/8" NPT |
| 590-AEP | 4-20 mA | 6-30 (0.4-2) | 1/8" NPT |
| 590-ACM | 4-20 mA | 3-15 (0.2-1) | Manifold |
| 590-ADM | 4-20 mA | 3-27 (0.2-1.8) | Manifold |
| 590-AEM | 4-20 mA | 6-30 (0.4-2) | Manifold |

OPTIONS/ACCESSORIES: Type-590X:

ATEX Approval (Add **K** to Model No.)

Note: FM/CSA Approvals are standard features

Type-595XP Explosion Proof I/P Transducer

Number = 595 - (input) (output) (connection) (option/accessory)

Example: 595 - ACPK (4-20 mA, 3-15 psig, 1/4" NPT with flow booster, ATEX)

| Input | Output PSI (BAR) | Connection |
|-------------|--------------------|-----------------------------------|
| A = 4-20 mA | C = 3-15 (0.2-1) | P = 1/4" NPT with flow booster |
| | D = 3-27 (0.2-1.8) | N = 1/4" NPT without flow booster |
| | E = 6-30 (0.4-2.0) | M = Manifold without flow booster |

OPTIONS/ACCESSORIES: Type-595XP:

ATEX Approval (Add **K** to Model No.)

ATEX Approval with 1/2" NPT Conduit (Add **K2** to Model No.)

Pipe Mounting Kit - includes 1.5" & 2" brackets: **P/N 448-542-016**

| Gauges: | Range PSI (BAR) | Part Number |
|---------|-----------------|-----------------|
| | 0-15 (0-1) | P/N 446-725-005 |
| | 0-30 (0-2) | P/N 446-725-006 |
| | 0-60 (0-4) | P/N 446-725-007 |
| | 0-160 (0-11) | P/N 446-725-008 |

Type-900 I/P, E/P Transducers

Standard Range

Model Number = 900 - (input) (output) (connection and/or option)

Example: 900 - ACTA (4-20 mA, 3-15 psig, terminal block and field selectable)

| Input | Output PSI (BAR) | Connection |
|--------------|----------------------|---------------------------|
| A = 4-20 mA | C = 3-15 (0.3-1) | A = 1/2" NPT conduit with |
| C = 0-5 VDC | D = 3-27 (0.3-1.9) | pigtail (standard) |
| D = 1-9 VDC | E = 6-30 (0.4-2) | D = Din 43650 Connector |
| E = 0-10 VDC | F = 1-17 (0.07-1.17) | M = M12 Connector |
| F = 1-5 VDC | | T = Terminal Block |

High Output Range

Model Number = 900 - (input) (output) (connection and/or option)

Example: 900 - AHTA (4-20 mA, 2-100 psig, terminal block and field selectable)

| Input | Output PSI (BAR) | Connection |
|--------------|--------------------|---------------------------|
| A = 4-20 mA | G = 2-60 (0.14-4) | A = 1/2" NPT conduit with |
| C = 0-5 VDC | H = 2-100 (0.14-7) | pigtail (standard) |
| D = 1-9 VDC | | D = Din 43650 Connector |
| E = 0-10 VDC | | M = M12 Connector |
| F = 1-5 VDC | | T = Terminal Block |

Zero-Based Range

Model Number = 900 - (input) (output) (connection and/or option)

Example: 900 - ALD (4-20 mA, 0-15 psig and DIN connector)

| Input | Output (PSI) | Connection |
|--------------|----------------|---------------------------|
| A = 4-20 mA | L = 0-15 (0-1) | A = 1/2" NPT conduit with |
| C = 0-5 VDC | I = 0-30 (0-2) | pigtail (standard) |
| D = 1-9 VDC | J = 0-60 (0-4) | D = Din 43650 Connector |
| E = 0-10 VDC | | M = M12 Connector |
| F = 1-5 VDC | | T = Terminal Block |

OPTIONS/ACCESSORIES: Type-900X:

Field Selectable Outputs (Add **A** to Model No.)

Note: field selectable option available for 3-15, 3-27, 6-30 outputs only

ATEX Approval: 4 - 20mA units only (Add **K** to Model No.)

1/4" BSP Porting (Add **U** to Model No.)

DIN Rail Mounting Kit: **P/N: 445-766-024**

Pipe Mounting Kit: **P/N 448-542-005**

Type-925 Multi-function Manifold

| Model No. | Stations |
|-------------|----------|
| 438-544-005 | 3 |
| 438-544-006 | 5 |
| 438-544-007 | 10 |
| 438-544-008 | 15 |

ACCESSORIES: Type-925:

| | |
|--|------------------|
| Main Supply Shut Off Valve (1/2") | P/N: 445-778-008 |
| Shut Off Valve (1/4") | P/N: 445-778-009 |
| Elbow (1/4") | P/N: 445-722-004 |
| Reducer (1/2" male to 1/4" female) | P/N: 445-722-005 |
| DIN Rail Mount Hardware | P/N: 448-542-004 |
| Pressure Gauge (1/4" bottom, 0-60 psig) | P/N: 446-725-014 |
| Pressure Gauge (1/4" bottom, 0-160 psig) | P/N: 446-725-015 |
| Extended Mounting Bracket (1 arm) | P/N: 445-707-042 |
| Extended Mounting Bracket (2 arm) | P/N: 448-544-009 |

Type-950XP Explosion Proof I/P Transducers

| Model No. | Input | Output Range PSI (BAR) |
|-----------|--------|------------------------|
| 950-AC | 4-20mA | 3-15 (0.2-1) |
| 950-AD | 4-20mA | 3-27 (0.2-1) |
| 950-AE | 4-20mA | 6-30 (0.4-2) |

OPTIONS/ACCESSORIES: Type-950XP:

| |
|--|
| Field Selectable Outputs (Add A to Model No.) |
| Natural Gas (Add E to Model No.) |
| ATEX Approved (Add K to Model No.) |
| Tapped Exhaust (Add T to Model No.) |
| Pipe Mounting Kit: includes 1.5" & 2" brackets P/N 448-542-005 |

I/PAC Integrated Process Air Control

| Model No. | Input | Output Range PSI (BAR) |
|--------------|--------|------------------------|
| I-950-AC-330 | 4-20mA | 3-15 (0.2-1) |
| I-950-AD-330 | 4-20mA | 3-27 (0.2-1.9) |
| I-950-AE-330 | 4-20mA | 6-30 (0.4-2) |

| Model No. | Input | Output Range PSI (BAR) |
|--------------|--------|------------------------|
| I-595-AC-330 | 4-20mA | 3-15 (0.2-1) |
| I-595-AD-330 | 4-20mA | 3-27 (0.2-1.9) |
| I-595-AE-330 | 4-20mA | 6-30 (0.4-2) |

OPTIONS/ACCESSORIES: Type-950XP:

| |
|--|
| Field Selectable Outputs (Add A to Model No.) |
| Natural Gas (Add E to Model No.) |
| ATEX Approved (Add K to Model No.) |

OPTIONS/ACCESSORIES: Type-330:

| |
|--|
| Tapped Exhaust (Add E to Model No.) |
| 5 Micro Filter (Add F to Model No.) |

P/I TRANSDUCERS

P200 – Explosion Proof P/I Transducer

Transmitter:

P200 Two-wire field-mount unit

Input Ranges:

| | |
|-----|------------------------------|
| P11 | 3-15 PSIG (0.2 – 1.0 BAR) |
| P12 | 3-27 PSIG (0.2 – 1.9 BAR) |
| P13 | 6-30 PSIG (0.4 – 2.0 BAR) |
| P14 | Non-standard input – specify |

OPTIONS/ACCESSORIES: P200

| | |
|-----|---|
| P21 | Lightning Surge Protection |
| P23 | 316 stainless steel tag |
| P28 | CSA Intrinsically Safe |
| P29 | CSA Explosion Proof |
| P45 | 10-50 mA |
| | Pipe Mounting Kit - 2" bracket: P/N 748-542-010 |

P290 – P/I Transducer

Transmitter:

P290M 2-wire, 4-20mA module, plug in

Input Ranges:

| | |
|-----|--|
| P11 | 3-15 PSIG (0.2 – 1.0 BAR) |
| P12 | 3-27 PSIG (0.2 – 1.9 BAR) |
| P13 | 6-30 PSIG (0.4 – 2.0 BAR) |
| P14 | Non-standard input – specify See Chart Below |

DIN Rail Mounting Adapters (required):

| | |
|--------|-------------------------------|
| P290DC | "C" Din Rail Adapter for P290 |
| P290DG | "G" Din Rail Adapter for P290 |

Non-Standard Pressures, Use on P/I Transmitters (P-14), Full Scale Range

| Code | Sensor | In. of Water | PSI | BAR |
|------|--------|----------------|--------------|-------------|
| P50 | 5 PSI | 0-20" to 166" | .72 to 6.0 | 0.05 to 4.1 |
| P51 | 10 PSI | 0-167" to 498" | 6.0 to 18.0 | 4.1 to 1.24 |
| P52 | 30 PSI | 0-499" to 830" | 18.0 to 30.0 | 1.24 to 2.1 |

L100 BUBBLE LIQUID LEVEL SYSTEM

Assembly:

| | |
|---------|--------------------------------------|
| L100 | Basic system |
| L100-R | Remote sensing |
| L100-A | Automatic blow down & built-in timer |
| L100-AR | Automatic blow down & remote sensing |

Enclosure (NEMA 4X):

| | |
|---|---|
| E | Small enclosure (L100 or L100-R) |
| E | Large enclosure (L100-A, L100-AR and/or L22) |
| | Note: Small panel 13" x 15"; large panel 20" x 20" |

Digital Readout:

| | |
|------|--|
| L22W | W = Inches of water; digital readout, scaled for range |
| L22A | A = 4-20mA; digital readout; scaled for range |
| L22P | P = 0-100%; digital readout; scaled for range |

Ranges: *Range being measured must be specified. Ranges measured from zero (0.0). No charge for setting range on units without P200.*

| Assembly | Inches of Water | PSI (BAR) |
|----------|-----------------|----------------------------|
| L11 | 50" to 166" | 1.8 to 6.0 (0.12 to 0.41) |
| L12 | 167" to 498" | 6.0 to 18.0 (0.41 to 1.24) |
| L13 | 499" to 830" | 18.0 to 30.0 (1.24 to 2.1) |

Note: When ordering, we will need to know the specific gravity of the liquid being measured if it is different from that of water.

Transducer:

P200 P/I Transducer

Note: Price when ordered with L100. See specifications separately.

Calibration - for P200 version only. Specify exact range inches of water for calibration. Use chart below.

| In. of Water | PSI | BAR |
|------------------|--------------|--------------|
| 0-50" to 0-166" | 1.8 to 6.0 | 0.12 to 0.41 |
| 0-167" to 0-498" | 6.0 to 18.0 | 0.41 to 1.24 |
| 0-499" to 0-830" | 18.0 to 30.0 | 1.24 to 2.1 |

Note: Shipping weight of basic unit 9 lbs. without transmitter; 11 lbs. with transmitter.

VALVE POSITIONERS

Type-2000 – Valve Positioner

| Model No. | Description |
|-----------|--------------------------------------|
| CA20-00 | P/P Pneumatic |
| CA20-05 | E/P Electro-pneumatic (No Approvals) |
| CA20-10 | E/P Electro-pneumatic (FM/CSA IS) |
| CA20-11 | E/P Electro-pneumatic (ATEX IS) |
| CA20-20 | E/P Electro-pneumatic (FM/CSA XP) |
| CA20-21 | E/P Electro-pneumatic (ATEX FP) |

OPTIONS/ACCESSORIES: Type-2000:

Dome Indicator (D)

Feedback/Switches

- 4-20 mA Feedback (F)
- Mechanical Switch - 2 spdt (S)
- 4-20 mA Feedback & Mechanical Switch - 2 spdt (FS)

Gauges:

| Range PSI (BAR) | NPT | Mount | Part Number |
|-----------------|------|--------|-----------------|
| 0-30 (0-2) | 1/8" | Back | P/N 446-725-006 |
| 0-160 (0-11) | 1/8" | Back | P/N 446-725-008 |
| 0-30 (0-2) | 1/8" | Bottom | P/N 446-725-033 |

Mounting Kits:

Namur, ISO Bolt Hole Pattern and Shaft Height: Namur spindle required

| Rotary | | Part Number |
|------------------|--|-------------|
| ISO-1 Bracket | | 449-542-032 |
| ISO-2 Bracket | | 449-542-033 |
| ISO-3 Bracket | | 449-542-034 |
| ISO-4 Bracket | | 449-542-035 |
| Linear | | Part Number |
| Linear Universal | | 449-542-036 |
| Namur IEC534 | | 449-542-037 |

REPLACEMENT PARTS / ASSEMBLY'S: Type-2000:

CAM:

| Description | Part Number |
|----------------|-------------|
| C1, 90° / 180° | 446-791-001 |
| C2, 45° / 90° | 446-791-003 |
| C3, 30° / 60° | 446-791-002 |

I/P Module / Plate Assembly's:

| Description | | Part Number |
|---------------------------------|--------------|-------------|
| E/P – FM/CSA Intrinsically Safe | I/P Assembly | 428-850-259 |
| E/P – ATEX Intrinsically Safe | I/P Assembly | 428-850-302 |
| E/P – FM/CSA Explosion-proof | I/P Assembly | 438-850-275 |
| E/P – ATEX Flame-proof | I/P Assembly | 438-850-309 |

VOLUME BOOSTERS / AIR RELAYS

Type-200 Biasing Precision Air Relays

| Model No. | Port (NPT) | Range PSI (BAR) |
|-----------|------------|-----------------|
| 200-BC | 1/4" | 2-120 (0.14-8) |
| 200-CC | 3/8" | 2-120 (0.14-8) |

Type-200HR High Relief Capacity

| Model No. | Port (NPT) | Range PSI (BAR) |
|-----------|------------|-----------------|
| 210-BC | 1/4" | 2-120 (0.14-8) |
| 210-CC | 3/8" | 2-120 (0.14-8) |

Type-200EB External Bias

| Model No. | Port (NPT) | Range PSI (BAR) |
|-----------|------------|-----------------|
| 220-BC | 1/4" | 2-120 (0.14-8) |
| 220-CC | 3/8" | 2-120 (0.14-8) |

Type-200EB/HR External Bias and High Relief Capacity

| Model No. | Port (NPT) | Range PSI (BAR) |
|-----------|------------|-----------------|
| 230-BC | 1/4" | 2-120 (0.14-8) |
| 230-CC | 3/8" | 2-120 (0.14-8) |

OPTIONS/ACCESSORIES: Type-200, 200HR, 200EB, 200EB/HR:

- Tapped Exhaust (Add **E** to Model No.)
- BSP Porting (Add **U** to Model No.)

Gauges: (1/4" NPT back mount, 2" dual scale)

| Range PSI (BAR) | Part Number |
|-----------------|-------------|
| 0-15 (0-1) | 446-725-003 |
| 0-30 (0-2) | 446-725-004 |
| 0-60 (0-4) | 446-725-001 |
| 0-160 (0-11) | 446-725-002 |

Type-250 Lock-up Air Relay

| Model No. | Port (NPT) | Set Point Range | Factory Set Point PSI | Construction |
|-----------|------------|-----------------|-----------------------|-----------------|
| 250-AA | 1/4" | 15-60 psig | 22 (1.5 BAR) | Aluminum |
| 250-BA | 1/4" | 30-120 psig | 85 (5.8 BAR) | Aluminum |
| 250-AS | 1/4" | 15-60 psig | 22 (1.5 BAR) | Stainless Steel |
| 250-BS | 1/4" | 30-120 psig | 85 (5.8 BAR) | Stainless Steel |

Type-600 Ratio Relay Volume Booster

| Model No. | Port (NPT) | Ratio |
|----------------|------------|-------|
| 600-BA, 600-CA | 1/4", 3/8" | 1:1 |
| 600-BB, 600-CB | 1/4", 3/8" | 1:2 |
| 600-BC, 600-CC | 1/4", 3/8" | 1:3 |
| 600-BD, 600-CD | 1/4", 3/8" | 1:6 |
| 600-DA | 1/2" | 1:1 |
| 600-DB | 1/2" | 1:2 |
| 600-DC | 1/2" | 1:3 |
| 600-DD | 1/2" | 1:6 |

OPTIONS/ACCESSORIES: Type-600:

- Fixed Negative Bias (Add **Z** to Model No.)
- Tapped Exhaust (Add **E** to Model No.)
- BSP Porting (Add **U** to Model No.)
- ATEX 94/9/EC Approval II 2 GD (Add **X** to Model No.)

Gauges: (1/4" NPT back mount, 2" dual scale)

| Range PSI (BAR) | Part Number |
|-----------------|-------------|
| 0-15 (0-1) | 446-725-003 |
| 0-30 (0-2) | 446-725-004 |
| 0-60 (0-4) | 446-725-001 |
| 0-160 (0-11) | 446-725-002 |

Mounting Bracket: P/N 446-707-025

Type-650 Positive Biasing Relay

| Model No. | Port (NPT) | Output Range PSI (BAR) |
|----------------|------------|------------------------|
| 650-BC, 650-CC | 1/4", 3/8" | 0-15 (0-1) |
| 650-BD, 650-CD | 1/4", 3/8" | 0-30 (0-2) |
| 650-BE, 650-CE | 1/4", 3/8" | 0-60 (0-4) |
| 650-BF, 650-CF | 1/4", 3/8" | 0-150 (0-10) |

OPTIONS/ACCESSORIES: Type-650:

- Tapped Exhaust (Add **E** to Model No.)
- Tamper Proof Cover (Add **T** to Model No.)
- BSP Porting (Add **U** to Model No.)
- Fixed Negative Bias (Add **Z** to Model No.)

Gauges: (1/4" NPT back mount, 2" dual scale)

| Range PSI (BAR) | Part Number |
|-----------------|-------------|
| 0-15 (0-1) | 446-725-003 |
| 0-30 (0-2) | 446-725-004 |
| 0-60 (0-4) | 446-725-001 |
| 0-160 (0-11) | 446-725-002 |

Mounting Bracket: P/N 446-707-025

Type-6000 Volume Booster

| Model No. | In/Out Port (NPT) | Output Range PSI (BAR) | Construction |
|-----------|-------------------|------------------------|-----------------|
| 6000-DA | 1/2" | 0-150 (0-10) | Aluminum |
| 6000-EA | 3/4" | 0-150 (0-10) | Aluminum |
| 6000-DS | 1/2" | 0-150 (0-10) | Stainless Steel |
| 6000-ES | 3/4" | 0-150 (0-10) | Stainless Steel |

OPTIONS/ACCESSORIES: Type-6000:

- Silicone Elastomers (Add **H** to Model No.)
- EPDM Elastomers (Add **R** to Model No.)
- ATEX Approved (Add **X** to Model No.)
- Mounting Bracket (Stainless Steel): P/N 436-707-067

Type-6500 Large Flow Capacity Volume Booster

| Model No. | Port (NPT) | Construction |
|-----------|------------|--------------|
| 6500-EA | 3/4" | Aluminum |
| 6500-FA | 1" | Aluminum |

Type-6600 Large Flow Capacity Volume Booster

| Model No. | Port (NPT) | Construction |
|-----------|------------|---------------------|
| 6600-ES | 3/4" | 316 Stainless Steel |
| 6600-FS | 1" | 316 Stainless Steel |

OPTIONS/ACCESSORIES: Type-6500/6600:

- Feedback port: (Add "**F**" to end of part number)
- Low Temperature Operation: (Add "**L**" to end of part number)
- Stainless Steel Trim (Type-6500 only) (Add **S** to Model No.)
- ATEX Approved (Add **X** to Model No.)
- Mounting Bracket: (Plated Steel): P/N 449-542-040
- Mounting Bracket: (Stainless Steel): P/N 449-542-041
- 3/4" NPT Exhaust Screen fitting: plated steel: 445-761-006
- 3/4" NPT Exhaust Screen fitting: 316 stainless steel: 445-761-007

MITE SERIES:SNAP-ACTING PNEUMATIC RELAYS

| Model No. | Type |
|-----------|--|
| MITE 70 | Snap-acting control relay with manual reset |
| MITE 71L | Low pressure selecting relay |
| MITE 71H | High pressure selecting relay |
| MITE 73 | Snap-acting air signal monitor with remote reset |
| MITE 74 | Snap-acting control relay with integral 2 or 3-way valve |
| MITE 85 | Snap-acting 3-way valve with 2 trip points |

MITE Spare Parts Kits

| Model No. | Type |
|-----------|--|
| MITE-70 | High trip/Low trip |
| MITE 71 | High or low trip |
| MITE 73 | High trip/Low trip |
| MITE 74 | High trip/low pressure High trip/high pressure Low trip/low pressure Low trip/high pressure |

MITE 85

(RC) ROD CLEVIS – (see page 6 of catalog)

| Model | Model |
|------------------|--------------------|
| 4-CA-RC, 4-SM-RC | 12-CA-RC, 12-SM-RC |
| 6-CA-RC, 6-SM-RC | 16-CA-RC, 16-SM-RC |
| 9-CA-RC, 9-SM-RC | |

CYLINDER ACCESSORIES

BREATHER VENT FILTERS

| Model |
|-----------------------|
| BVF-1 (1/4" pipe tap) |
| BVF-2 (3/8" pipe tap) |

PROTECTIVE BELLOWS

| Model |
|------------------------|
| PB-1 (sizes 4, 6) |
| Mount Kit for PB-1 . . |
| PB-2 (sizes 9, 12, 16) |
| Mount Kit for PB-2 |

DIAPHRAGM CYLINDERS

SEE CATALOG FOR COMPLETE ORDERING INSTRUCTIONS

Note: Modified cylinders may require a 10 piece minimum order and/or a set-up fee. Please contact the factory if MOD is used in the part number.

| BASE MODEL | ROD THREAD (CA or SM) | MOUNT (Universal Mount is standard) (Other mounting see below) | WITH STUDS OR NO STUDS (With Studs is standard) |
|--|--------------------------|--|--|
| Sprint Return – Standard Cylinders | | | |
| S-4-L | CA or SM | UM | With studs / No studs |
| S-6-L | CA or SM | UM | With studs / No studs |
| S-9-S | CA or SM | UM | With studs / No studs |
| S-9-L | CA or SM | UM | With studs / No studs |
| S-12-S | CA or SM | UM | With studs / No studs |
| S-12-L | CA or SM | UM | With studs / No studs |
| S-16-S | CA or SM | UM | With studs / No studs |
| S-16-L | CA or SM | UM | With studs / No studs |
| Ultra Cylinder – Linear Ball Bearing | | | |
| US-4-L | CA or SM | UM | With studs / No studs |
| US-6-L | CA or SM | UM | With studs / No studs |
| US-9-L | CA or SM | UM | With studs / No studs |
| US-12-L | CA or SM | UM | With studs / No studs |
| US-16-L | CA or SM | UM | With studs / No studs |
| Double Acting – Available in sizes 4 and 9 only | | | |
| D-4-L | CA or SM | UM | With studs / No studs |
| D-9-L | CA or SM | UM | With studs / No studs |

CYLINDER OPTIONS

NS – No spring
NB – No Bearing
NBS – No Bearing and No Spring
With Studs or No Studs (standard unit is with studs)

Note: If cap mounting studs are NOT desired add "no studs" to end of ordering data. Default is WITH studs.

CYLINDER MOUNTS (Optional)

(CBS) CLEVIS BRACKET STUD – Eye Bracket (see pg 4 of catalog)

| Model | Model |
|-------|--------|
| 4-CBS | 12-CBS |
| 6-CBS | 16-CBS |
| 9-CBS | |

(CBM) CLEVIS BRACKET MOUNT – Eye & Clevis Bracket (see pg 4 of catalog)

| Model | Model |
|-------|--------|
| 4-CBM | 12-CBM |
| 6-CBM | 16-CBM |
| 9-CBM | |

(FM) FOOT MOUNT (see page 5 of catalog)

| Model | Model |
|-------|-------|
| 4-FM | 12-FM |
| 6-FM | 16-FM |
| 9-FM | |

OTHER CYLINDERS

SMALL BORE – Mini Mights

| Model |
|--------------------|
| MM-1 (349-180-007) |
| MM-2 (349-180-009) |

SMALL BORE – 1.5 inch Bore

| Model |
|-------------|
| 139-190-002 |
| 139-190-001 |

REGULATOR & RELAY REPAIR KITS

| Type | Range (PSI) | Part No. |
|-------------|---------------------------------|-------------|
| T-90 | .70-30, 1.40-60, 1.40-120 | 449-871-105 |
| T-100 | 2-40, 2-60 | 449-871-005 |
| T-100 | 2-120 | 449-871-006 |
| T-100HR | 2-120 | 449-871-008 |
| T-100LR | 0.5-25 | 449-871-093 |
| T-200 | 2-120 | 449-871-006 |
| T-200HR | 2-120 | 449-871-008 |
| T-300 | 0-30, 0-60, 0-120 | 449-871-017 |
| T-300NR | 0-10, 0-30, 0-60, 0-120 | 449-871-035 |
| T-310 | 2-40, 2-60 | 449-871-131 |
| T-330 | 1/4" Relieving : All Ranges | 449-871-100 |
| T-330 | 1/4" Non Relieving : All Ranges | 449-871-101 |
| T-330 | 1/2" Relieving : All Ranges | 449-871-113 |
| T-330 | 1/2" Non Relieving : All Ranges | 449-871-114 |
| T-340 | 1/4" Relieving : All Ranges | 449-871-115 |
| T-340 | 1/4" Non Relieving : All Ranges | 449-871-116 |
| T-340 | 1/2" Relieving : All Ranges | 449-871-117 |
| T-340 | 1/2" Non Relieving : All Ranges | 449-871-118 |
| T-350SS | 1/4" Relieving | 449-871-068 |
| T-350SS | 1/4" Non Relieving | 449-871-069 |
| T-350SS | 1/2" Relieving | 449-871-070 |
| T-350SS | 1/2" Non Relieving | 449-871-071 |
| T-350SS | Autodrain Repair Kit | 448-542-015 |
| T-360SS | 1/4" Relieving | 449-871-072 |
| T-360SS | 1/4" Non Relieving | 449-871-073 |
| T-360SS | 1/2" Relieving | 449-871-094 |
| T-360SS | 1/2" Non Relieving | 449-871-095 |
| T-3500 | 0-125, 0-150, 0-225 | 449-871-084 |
| T-400 | 0-30, 0-60, 0-120 | 449-871-014 |
| T-400NR | 0-10, 0-30, 0-60, 0-120 | 449-871-023 |
| T-600/T-650 | 1:1 Ratio | 449-871-021 |
| T-600 | 1:2 Ratio | 449-871-097 |
| T-600 | 1:3 Ratio | 449-871-045 |
| T-600 | 1:6 Ratio | 449-871-022 |
| T-6000 | 0-150 | 449-871-089 |
| T-6500 | Aluminum | 449-871-129 |
| T-6600 | Stainless Steel | 449-871-130 |
| T-700 | 0-2, 0-15 | 449-871-009 |
| T-700 | 0-30 | 449-871-010 |
| T-700 | 0-60 | 449-871-011 |
| T-700 | 0-150 | 449-871-012 |
| T-700NR | 0-2, 0-15, 0-30, 0-60, 0-120 | 449-871-082 |
| T-700BP | 0-15, 0-30, 0-60, 0-150 | 449-871-020 |
| T-850 | 0-5, 0-15, 0-30, 0-60, 0-100 | 449-871-028 |
| T-850NR | 0-5, 0-15, 0-30, 0-60, 0-100 | 449-871-029 |
| T-860NR | 0-5, 0-15, 0-30, 0-60, 0-100 | 449-871-033 |

I/P, E/P REPAIR KITS

| Type | Input | Range | Part No. |
|---------|-------|------------------------|-------------|
| T-500X | All | 3-15, 3-27, 6-30, 1-17 | 449-871-019 |
| T-500ER | All | 2-60, 3-120 | 449-871-024 |
| T-550X | All | 3-15, 3-27, 6-30 | 449-871-051 |
| T-550X | All | 3-120 | 449-871-052 |
| T-550X | All | 0-30 | 449-871-053 |
| T-550X | All | 0-60 | 449-871-054 |
| T-550X | All | 0-120 | 449-871-055 |
| T-900X | All | 3-15, 3-27, 6-30, 1-17 | |
| | | 2-60, 2-100 | 449-871-049 |
| T-900X | All | 0-15, 0-30, 0-60 | 449-871-050 |
| T-950XP | All | 3-15, 3-26, 6-30 | 449-871-056 |

CYLINDER REPAIR KITS

SPRING RETURN CYLINDERS

| Model No. | Diaphragm Kit No. | Bearing Kit No. |
|-----------|-------------------|-----------------|
| S-4-L | S4L | CAB-1/2 |
| S-6-L | S6L | CAB-1/2 |
| S-9-S | S9S | CAB-3/4 |
| S-9-L | S9L | CAB-3/4 |
| S-12-S | S12S | CAB-3/4 |
| S-12-L | S12L | CAB-3/4 |
| S-16-S | S16S | CAB-3/4 |
| S-16-L | S16L | CAB-3/4 |
| S-36-S | S36S | CAB-1 |

ULTRA CYLINDERS

| Model No. | Diaphragm Kit No. | Bearing Kit No. |
|-----------|-------------------|-----------------|
| US-4-L | S4L | US-CAB-1/2 |
| US-6-L | S6L | US-CAB-1/2 |
| US-9-L | S9L | US-CAB-3/4 |
| US-12-L | S12L | US-CAB-3/4 |
| US-16-L | S16L | US-CAB-3/4 |

DOUBLE ACTING CYLINDERS

| Model No. | Diaphragm Kit No. | Bearing Kit No. |
|-----------|-------------------|-----------------|
| D-4-L | D4L | CAB-1/2-D |
| D-9-L | D9L | CAB-3/4-D |

LOW COST CYLINDERS

| Model No. | Diaphragm Kit No. |
|-------------|-------------------|
| 139-190-002 | 149-400-022 |
| 139-190-001 | 149-400-022 |

ControlAir Inc. Terms and Conditions
Applicable to all purchase orders accepted by ControlAir Inc.

I. GENERAL

- A. Customer purchase orders are binding only after written acceptance by ControlAir Inc. Verbal orders shall not be accepted as binding until confirmed in writing by ControlAir Inc.
- B. Prices are effective from date of publication and are subject to change without notice.
- C. ControlAir Inc. reserves the right, without prior notice to:
 - 1. Change and/or revoke any price.
 - 2. Change and /or revoke any provisions contained herein.
 - 3. Discontinue shipments to any customers.
 - 4. Resolve any inconsistencies, conflicts or ambiguities.
- D. Special production runs or product orders are subject to ControlAir Inc.'s requirements such as, but not limited to, minimum quantities and extended delivery times. On special production run products, ControlAir Inc. reserves the right to over ship or under ship the purchase order quantity by up to 5% and invoice accordingly. Special orders are subject to cancellation charges.
- E. Domestic orders under \$100.00 are subject to a \$10.00 service charge. International orders under \$200.00 are subject to a \$20.00 service charge.

II. PAYMENT TERMS

- A. For customer with established credit terms: Net 30 days from shipment date.
- B. If credit is not established, payment plus estimated freight charges shall accompany order or arrangements shall be made for collect on delivery (C.O.D.)
- C. ControlAir Inc. reserves the right to revoke any credit extended to a customer if the customer fails to pay for any shipments when due. If in ControlAir Inc.'s opinion there is a material adverse change in the customer's financial condition, ControlAir Inc. shall have the right to suspend further shipments until receipt of adequate assurance for the customer's ability to pay therefore.
- D. All shipments are F.O.B. Amherst, New Hampshire.
- E. The shipment is deemed accepted in good condition by the common carrier and title and all risk for loss or damage is transferred to customer upon that acceptance by the carrier. The customer is responsible for inspection of the merchandise upon receipt. The customer shall insist that visible damage be noted on its copy of the freight bill. If the product has been lost or damaged in transit, the customer must file the claim with the carrier, as ControlAir Inc. bears no responsibility for any such loss or damage.
- F. All freight, handling and insurance charges shall be invoiced to the customer or shipped freight collect.
- G. All shipments are made by carriers of ControlAir Inc.'s choice. Any special arrangements requested by customer shall be at customer's additional expense.
- H. Any quantity shortages, incorrect items, or billing errors shall be reported in writing to ControlAir Inc. within 15 days of delivery. Sales order and invoice numbers are to be furnished on all claims.
- I. ControlAir Inc. reserves the right to make delivery in installments. All such installments shall be separately invoiced and paid for when due, without regard to subsequent deliveries. Delay in delivery of any installment shall not relieve the customer of his obligation to accept remaining deliveries.
- J. ControlAir Inc. shall not be liable for failure to deliver or delay in delivery occasioned by causes beyond ControlAir Inc.'s control, including without limitation, lockouts, fires, embargoes, war or other breakouts of hostilities, act of inability to obtain shipping space, machinery breakdowns, delays of suppliers, and domestic or foreign governmental acts or regulations. In the event of any delay in delivery due to such causes, unless otherwise agreed time of delivery shall be deemed extended for a period of 60 days. Customer shall extend the letter of credit if payment is to be made by letter of credit. If delivery is not made within such extended 60 day period, contract shall be deemed cancelled without liability to either party.

III. CANCELLED ORDERS

- A. ORDER CANCELLATIONS CAN ONLY BE ACCEPTED BY WRITTEN REQUEST via FAX, MAIL or EMAIL.
- B. Cancellation fees are:
 - 1. Catalog Stock Items – no cancellation fee.
 - 2. Catalog Non-Stock Items – if cancelled less than 1 week before ship date, 25% cancellation fee or \$50.00, whichever is greater.
 - 3. Non-Standard modified product cancelled at any time – To Be Determined (35% minimum).

IV. RETURN MATERIAL AUTHORIZATION PROCEDURE (RMA)

- A. All products being returned to ControlAir Inc. must have a Return Material Authorization (RMA) Number assigned by ControlAir Inc.
- B. PRIOR to issuing of an RMA number, the responsible sales/customer service person MUST ascertain the date code, purchase date, and specific reason for the unit/units to be returned. The term "unit doesn't work" is insufficient. The more detailed information that can be gathered, the more efficiently ControlAir Inc. will be able to respond. Request length of operation, maximum inlet pressure, outlet pressure, and application details such as temperature, contaminants, or other information pertinent to operation.

- C. On rare occasion, at ControlAir Inc.'s discretion, it may be decided that it is impossible for the customer to wait until here is a determination of the cause of a failure in the field; therefore, replacements may be shipped at the price originally paid prior to receiving the returned units back. A purchase order should be issued by the customer. If it should be determined later that ControlAir Inc. shipped a defective product, credit for the replacement unit will be issued immediately. If it is determined that the problem was due to application and not any effect in the product, then the customer will not be issued a credit for replacement order and the product will be returned to them.
- D. If the product covered by the RMA is not returned to ControlAir Inc. within 60 days the RMA will be closed.

V. EVALUATION/NON WARRANTY / REPAIR CHARGES

- A. In some cases the cost of the evaluation/repair could be greater than purchasing a new unit.
- B. Any product being returned for repair that is out of warranty is automatically subject to a \$75.00 per unit evaluation charge. In the case where the customer proceeds with the repair, the \$75.00 fee can be applied to the repair charge. A purchase order is required and should be obtained by the ControlAir Inc. sales/customer service person issuing the RMA number.
- C. If the customer is interested in having units repaired that are over 18 months old or that are within the warranty period, but have had the warranty voided due to misuse in application, a purchase order for the cost of the repair (can be the same purchase order as the evaluation charge) must be issued. The following should be used as a guideline for repair charges:

| <u>List Price</u> | <u>Repair Cost</u> |
|---------------------|--------------------------|
| 0 – \$100.00 | Not economical to repair |
| \$101.00 – \$200.00 | 70% of list price |
| \$201.00 – \$500.00 | 50% of list price |
| \$501.00 – \$ Up | 40% of list price |
- D. ControlAir Inc. customer service department will contact and advise repair charges for units that have had the warranty voided due to misuse in application. The customer will have the option of issuing a purchase order to proceed with the repair or scrapping the unit.

VI. RETURNS FOR CREDIT

- A. ControlAir Inc. will accept unused product that is less than 2 years old that is returned for credit. When calculating credit to be issued use the following restock charge schedule:

| | |
|---|---------------------------------------|
| Catalog Stock Items | 25% or \$50.00, whichever is greater. |
| Catalog Non-Stock Items | 35% or \$75.00, whichever is greater. |
| Non-Standard Modified Product | To Be Determined (35% minimum) |
- B. For questions about the appropriate restock charge to use, contact ControlAir Inc.
- C. In cases where the ControlAir Inc. Sales Department entered the part number incorrectly, there will be no restocking charge and a replacement order will be entered at dollar value. A credit will be issued when the incorrect material is received back at the factory.
- D. The following general conditions apply to all product returned for credit:
 - Product must be in resalable condition and in original packaging
 - Product must be less than 2 years old, based on the date code of manufacture.

VII. DISTRIBUTOR STOCK ADJUSTMENTS

- A. Distributors may make an annual stock adjustment from their inventory.
- B. The distributor should submit a list, broken down by quantity, part number and date codes (product must be less than 2 years old).
- C. The product must be in resalable condition.
- D. The total dollar amount must not exceed 5% of previous annual net purchases.
- E. The return must go through the standard RMA procedure.
- F. Credit will be calculated based on current list prices less maximum distributor discount.
- G. Some products might be subject to a restock charge.

VIII. LIMITED WARRANTY

ControlAir Inc. products are warranted to be free from defects in materials and workmanship for a period of 18 months from the date of sale, provided said products are used according to ControlAir Inc. recommended usages. ControlAir Inc.'s liability is limited to repair of, refund of purchase price paid for, or replacement in kind of. At ControlAir Inc.'s sole option, any products proved defective, ControlAir Inc. reserves the right to discontinue manufacture of any products or change products materials, design, or specifications without notice. This warranty does not apply to Goods from which serial number have been removed, or to conditions resulting from improper use, external cause, including service modifications not performed by ControlAir Inc., or operation outside the environmental parameters specified for the products. ControlAir Inc. does not warrant that the operation of any product will be uninterrupted or error free. ControlAir Inc. does not assume responsibility for the selection, use, and maintenance of any product. Responsibility for proper selection, use, and maintenance of any ControlAir Inc. product remains solely with the purchaser and end user.

IX. MODIFICATION OF TERMS

- A. This contract constitutes the entire agreement between the parties, all private representations and understanding having been merged herein. It may not be modified or terminated except in writing signed by a duly authorized representative of ControlAir Inc. ControlAir Inc. is not responsible for errors, omissions or any changes in this document by ControlAir Inc. or caused by any translation. This contract shall be governed by and construed according to the laws of the State of New Hampshire.
- B. First edition, January, 2009. This edition supersedes all previous editions of the ControlAir Inc. Price List.

更多信息请联系：ControlAir（康气通）中国代表处 电话：01056205577或 18611155599，地址：北京朝阳芍药居北里314号楼



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An ISO-9001:2008 Certified Company