**Type 40**

**Pressure Regulator Series**

**Features**

- Superior regulation characteristics
- Rugged, corrosion resistant construction
- Low cost
- Excellent stability and repeatability
- Self-relieving
- Low droop at high flow
- Several mounting options

**Type 40 Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td>1” Water Column (2.5 cm)</td>
</tr>
<tr>
<td>Flow Capacity @ 100 psig (6.9 BAR) Supply and 20 psig (1.4 BAR) outlet</td>
<td>20 SCFM (566 LPM)</td>
</tr>
<tr>
<td>Effect of Supply Pressure Variation (25 psig/1.7 BAR) on Outlet Pressure</td>
<td>Less than 0.2 psig (0.01 BAR)</td>
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<tr>
<td>Exhaust Capacity 5 psig (0.35 BAR) above 20 PSIG set point</td>
<td>0.1–0.45 SCFM Typical 2.8 – 12.7 LPM</td>
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<tr>
<td>Max Supply Pressure</td>
<td>250 PSIG (17.2 BAR)</td>
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</table>

| Effect of Changes in Flow on Regulated Pressure (100 psig / 6.9 BAR Supply) | 2 PSIG over flow of 10 SCFM / 283 LPM (0-30 PSIG / 0-2.1 BAR range 1/4 NPT, 20 PSIG / 1.4 BAR set point) |

**Output Pressure Ranges**

- 0-10 PSIG (0-0.7 BAR)
- 0-35 PSIG (0-2.4 BAR)
- 0-60 PSIG (0-4.1 BAR)
- 0-120 PSIG (0-8.3 BAR)

**Temperature Range**

0-160˚F (-18 to 71˚C)

**Total Air Consumption @ Maximum Output**

6 SCFH (2.8 LPM)

**Port Size**

1/4 NPT, BSPT

**Materials of Construction**

- Body: Die cast aluminum with vinyl paint
- Adjusting Screw: Plated steel
- Trim: Plated steel, brass, acetal resin
- Diaphragm: Buna-N elastomer and polyester fabric
- Knob: Phenolic Plastic (option)
- Spring: Music wire

**Tamper Resistant Cover**

Optional

**Mounting Options**

Pipe, Panel or Bracket

**Type 40: Regulated Pressure VS. Flow**

Marsh Bellofram’s General Purpose Type 40 Pressure Regulator is a reliable precision unit designed for instrumentation and general purpose use.

Test data for the Type 40 regulator shows excellent performance characteristics compared with those of similar units presently on the market. The Type 40 regulator is generally superior in regulated pressure vs. flow, forward-to-reverse flow offset, supply pressure sensitivity, repeatability and stability.

Ruggedly designed and constructed, the Type 40 has housings of diecast aluminum. Every regulator is finished with vinyl paint (which resists scratching, weathering and other physical abuse) and is pressure and leak tested prior to shipment from the factory. Careful design and quality materials throughout assure long, trouble-free operation in the most difficult industrial environments. A rubberized, soft-seat valve stem provides positive shut-off and “forgives” dirt or other foreign matter. An aspirator maintains downstream pressure and compensates for droop when high flow occurs. The gauge port is convenient for gauge installation and can also be used as an additional full flow outlet.

The Type 40 regulator has a 60-mesh 304 stainless steel screen to block foreign particles from entering the output stream. The design of these regulators is especially well suited to pilot-operated controllers and instruments, as well as applications such as air chucks, air spray guns, air cylinders and actuators, and a wide range of industrial pneumatic systems and equipment.
### Type 40 Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Port Size (NPT)</th>
<th>Set Point Range</th>
<th>BAR psig</th>
</tr>
</thead>
<tbody>
<tr>
<td>960-083-000</td>
<td>1/4</td>
<td>0-0.7</td>
<td>0-10</td>
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<tr>
<td>960-064-000</td>
<td></td>
<td>0-2.4</td>
<td>0-35</td>
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<tr>
<td>960-065-000</td>
<td></td>
<td>0-4.1</td>
<td>0-60</td>
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<tr>
<td>960-066-000</td>
<td></td>
<td>0-8.3</td>
<td>0-120</td>
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</table>

### Type 40 Option Ordering Matrix

Replace last three digits of part number with digits from table below.

<table>
<thead>
<tr>
<th>Option</th>
<th>Flouorocarbon Pintle</th>
<th>Non-Relieving</th>
<th>Epoxy Finish</th>
<th>Knob</th>
<th>Tapped Vent</th>
<th>Mounting Bracket</th>
<th>Pressure Gauge</th>
<th>Tamper-Resistant Cover</th>
<th>Soft Relief Seat</th>
<th>Fluorocarbon Diaphragm</th>
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<tbody>
<tr>
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</table>

To order BSPT threads (including the gauge port) add “BSPT” to end of part number.

#### Fluorocarbon Pintle
A special elastomeric pintle used where elements in the supply air, such as flame retardant synthetic lubricants, are particularly destructive to ordinary pintle material.

#### Non Relieving
Used in applications where it is desirable to relieve pressure downstream of the regulator, for some constant flow applications, and where the gas flowing through the regulator must not escape at the regulator. Non-relieving regulators should not be used for low or no flow applications.

#### Corrosive Resistant Epoxy Finish
An epoxy paint applied to the body and bonnet of the regulator exterior surfaces to provide increased corrosion resistance.

#### Mounting Bracket
Steel (dichromate finish) bracket for side mounting. P/N: 607-000-057

#### Knob
Option to replace the square head pressure adjusting screw.

#### Tapped Vent
Allows installation of plumbing to capture exhaust air.

#### Pressure Gauge
Dual scale 2 in. (50.8 mm) gauges. Ranges include 0-30 psig (0-200 kPa), 0-60 psig (0-400 kPa), 0-100 psig (0-700 kPa) and 0-180 psig (0-1100 kPa). When specified with regulator, the correct range will be supplied. For NPT versions only.

#### Tamper Resistant Cover
An aluminum tubular cover placed over a slotted head adjusting screw and screwed onto the bonnet of the regulator with a wrench. Prevents ordinary hand adjustments.

#### Soft Relief Seat
Used in applications where it is desirable to reduce the standard bleed rate from 6 SCFH [0.17 m³/hr] to less than 0.1 SCFH [0.003 m³/hr].

#### Fluorocarbon Diaphragm
Diaphragm as well as all seals are made of fluorocarbon elastomer to prevent deterioration from elements in the air supply, such as flame retardant synthetic lubricants normally destructive to standard Nitrile material.