Line regulator
LR3000 Series

- Brass
- Medium inlet pressure
- Single stage

This series of brass single-stage regulators is recommended for use with non-corrosive gases and is ideally suited to medium inlet pressure applications. The LR3000 regulators are often used for the point of use control of gases in distribution pipework systems.
Specifications

Material
Body: brass
Bonnet: nickel plated brass
Seat: Teflon®
Inlet filter: bronze
Diaphragm: 316L stainless steel
Gauge: brass, 64 mm diameter

Pressure/Temperature rating
Maximum inlet pressure: 27 bar.g
Temperature range: -40 °C to +74 °C

Connections
Inlet: 1/4 inch NPT female
Outlet: 1/4 inch NPT female
Relief valve: 1/4 inch NPT male

Flow
CV=0.15
The flow coefficient expresses the flow capability of the regulator.
CV is the flow of air in standard ft³/min for each psi of inlet pressure.

Design leak rate
<2 x 10⁻⁸ mbar.l/sec He equivalent

Weight
1.1 kg

Installation dimensions
WxHxD: 65 mm x 150 mm x 125 mm

Design features

- Inlet filter for maximum reliability
- Ultrasonically cleaned for high purity gas handling
- Relief valve fitted as standard for protection against over pressurisation
- Individually tested and certified to assure maximum leak-tightness and reliability
- Panel mounting facility using 2 threaded holes in the rear of the regulator

Ordering information

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Recommended outlet pressure range (bar.g)</th>
<th>Design capacity at maximum outlet pressure (*) (Nm³/h)</th>
<th>Outlet gauge range (bar.g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LR3001</td>
<td>0.1 to 0.7</td>
<td>10</td>
<td>-1.0 to +1.5</td>
</tr>
<tr>
<td>LR3002</td>
<td>0.2 to 1.7</td>
<td>19</td>
<td>-1.0 to +3.0</td>
</tr>
<tr>
<td>LR3003</td>
<td>0.5 to 3.5</td>
<td>28</td>
<td>-1.0 to +5.0</td>
</tr>
<tr>
<td>LR3004</td>
<td>1.0 to 7.0</td>
<td>34</td>
<td>-1.0 to +9.0</td>
</tr>
<tr>
<td>LR3005</td>
<td>5.0 to 17.0</td>
<td>36</td>
<td>0.0 to +25.0</td>
</tr>
</tbody>
</table>

(*) For outlet pressure drops, refer to the flow curves

OPTIONS

C: Cleaning for oxygen service
D: Helium leak rate certification
E: Panel mounting kit, consists of 2 nuts
F: Extra 5 micron inlet filter
H: Compression fitting on outlet (available in various sizes)
M: Mounting on a back plate
R: No relief valve

Panel-mounted line regulator

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This series of brass single-stage regulators is ideally suited to mounting direct in a pipeline from a high pressure source, e.g. in a panel-mounted system. LR3100 regulators are recommended for use with high purity, non-corrosive gases at high inlet pressure.
## Specifications

**Material**
- Body: brass
- Bonnet: nickel plated brass
- Seat: Teflon®
- Inlet filter: bronze
- Diaphragm: 316L stainless steel
- Gauge: brass, 64 mm diameter

**Pressure/Temperature rating**
- Maximum inlet pressure: 310 bar.g
- Temperature range: -40 °C to +74 °C

**Connections**
- Inlet: 1/4 inch NPT female
- Outlet: 1/4 inch NPT female
- Relief valve: 1/4 inch NPT male

**Flow**
- CV = 0.06
- The flow coefficient expresses the flow capability of the regulator.
- CV is the flow of air in standard ft³/min for each psi of inlet pressure

**Design leak rate**
- <2 x 10⁻⁸ mbar.l/sec He equivalent

**Weight**
- 1.1 kg

**Installation dimensions**
- W x H x D: 65 mm x 150 mm x 125 mm

## Design features

- Inlet filter for maximum reliability
- Ultrasonically cleaned for high purity gas handling
- Relief valve fitted as standard for protection against over pressurisation
- Individually tested and certified to assure maximum leak-tightness and reliability
- Panel mounting facility using 2 threaded holes in the rear of the regulator

## Ordering information

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Recommended outlet pressure range (bar.g)</th>
<th>Design capacity at maximum outlet pressure (*) (Nm³/h)</th>
<th>Outlet gauge range (bar.g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LR3101</td>
<td>0.1 to 0.7</td>
<td>7</td>
<td>-1.0 to +1.5</td>
</tr>
<tr>
<td>LR3102</td>
<td>0.2 to 1.7</td>
<td>18</td>
<td>-1.0 to +3.0</td>
</tr>
<tr>
<td>LR3103</td>
<td>0.5 to 3.5</td>
<td>33</td>
<td>-1.0 to +5.0</td>
</tr>
<tr>
<td>LR3104</td>
<td>1.0 to 7.0</td>
<td>62</td>
<td>-1.0 to +9.0</td>
</tr>
<tr>
<td>LR3105</td>
<td>5.0 to 17.0</td>
<td>106</td>
<td>0.0 to +25.0</td>
</tr>
<tr>
<td>LR3106</td>
<td>5.0 to 35.0</td>
<td>110</td>
<td>0.0 to +40.0</td>
</tr>
</tbody>
</table>

(*) For outlet pressure drops, refer to the flow curves.

## OPTIONS

- Cleaning for oxygen service
- Helium leak rate certification
- Panel mounting kit, consists of 2 nuts
- Compression fitting on outlet (available in various sizes)
- Mounting on a back plate
- Extra 5 micron inlet filter
- No relief valve
This series of stainless steel single-stage regulators is recommended for use with corrosive and high purity non-corrosive gases and is ideally suited to low inlet pressure applications. These regulators are often used for the point of use control of gases in distribution pipework systems. For maximum cleanliness stainless steel is often the preferred material in high purity non-corrosive applications.
Specifications

Material
Body: 316L stainless steel
Bonnet: nickel plated brass
Seat: Teflon®
Inlet filter: 316L stainless steel
Diaphragm: 316L stainless steel
Gauge: 316L stainless steel, 64 mm diameter

Pressure/Temperature rating
Maximum inlet pressure: 27 bar.g
Temperature range: -40 °C to +74 °C

Connections
Inlet: 1/4 inch NPT female
Outlet: 1/4 inch NPT female
Relief valve: 1/4 inch NPT male

Flow
CV=0.15
The flow coefficient expresses the flow capability of the regulator.
CV is the flow of air in standard ft³/min for each psi of inlet pressure.

Design leak rate
<2 x 10⁻⁸ mbar.l/sec He equivalent

Weight
1.1 kg

Installation dimensions
WxHxD: 65 mm x 150 mm x 125 mm

Design features

- Inlet filter for maximum reliability
- Ultrasonically cleaned for high purity gas handling
- Relief valve fitted as standard for protection against over pressurisation
- Individually tested and certified to assure maximum leak-tightness and reliability
- Panel mounting facility using 2 threaded holes in the rear of the regulator

Ordering information

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Recommended outlet pressure range (bar.g)</th>
<th>Design capacity at maximum outlet pressure (*) (Nm³/h)</th>
<th>Echelle du manomètre de sortie (bar.g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LR3301</td>
<td>0.1 to 0.7</td>
<td>10</td>
<td>-1.0 to +1.5</td>
</tr>
<tr>
<td>LR3302</td>
<td>0.2 to 1.7</td>
<td>19</td>
<td>-1.0 to +3.0</td>
</tr>
<tr>
<td>LR3303</td>
<td>0.5 to 3.5</td>
<td>28</td>
<td>-1.0 to +5.0</td>
</tr>
<tr>
<td>LR3304</td>
<td>1.0 to 7.0</td>
<td>34</td>
<td>-1.0 to +9.0</td>
</tr>
<tr>
<td>LR3305</td>
<td>5.0 to 17.0</td>
<td>36</td>
<td>0.0 to +25.0</td>
</tr>
</tbody>
</table>

(*) For outlet pressure drops, refer to the flow curves

OPTIONS

- **C** Cleaning for oxygen service
- **D** Helium leak rate certification
- **E** Panel mounting kit, consists of 2 nuts
- **F** Extra 5 micron inlet filter
- **H** Compression fitting on outlet (available in various sizes)
- **M** Mounting on a back plate
- **R** No relief valve

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This series of stainless steel single-stage regulators is ideally suited to mounting direct in a pipeline from a high pressure source, e.g. in a panel-mounted system. LR3400 regulators are recommended for use with high purity gases, including corrosive gases, at high inlet pressure.
Specifications

Material
Body: 316L stainless steel
Bonnet: nickel plated brass
Seat: Teflon®
Inlet filter: 316L stainless steel
Diaphragm: 316L stainless steel
Gauge: 316L stainless steel, 64 mm diameter

Pressure/Temperature rating
Maximum inlet pressure: 310 bar.g
Temperature range: -40 °C to +74 °C

Connections
Inlet: 1/4 inch NPT female
Outlet: 1/4 inch NPT female
Relief valve: 1/4 inch NPT male

Flow
CV=0.06
The flow coefficient expresses the flow capability of the regulator.
CV is the flow of air in standard ft³/min for each psi of inlet pressure

Design leak rate
<2 x 10⁻⁸ mbar.l/sec He equivalent

Weight
1.1 kg

Installation dimensions
Width: 65 mm x Height: 150 mm x Depth: 125 mm

Design features
• Inlet filter for maximum reliability
• Ultrasonically cleaned for high purity gas handling
• Relief valve fitted as standard for protection against over pressurisation
• Individually tested and certified to assure maximum leak-tightness and reliability
• Panel mounting facility using 2 threaded holes in the rear of the regulator

Ordering information

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Recommended outlet pressure range (bar.g)</th>
<th>Design capacity at maximum outlet pressure (P) (Nm³/h)</th>
<th>Outlet gauge range (bar.g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LR3401</td>
<td>0.1 to 0.7</td>
<td>7</td>
<td>-1.0 to +1.5</td>
</tr>
<tr>
<td>LR3402</td>
<td>0.2 to 1.7</td>
<td>18</td>
<td>-1.0 to +3.0</td>
</tr>
<tr>
<td>LR3403</td>
<td>0.5 to 3.5</td>
<td>33</td>
<td>-1.0 to +5.0</td>
</tr>
<tr>
<td>LR3404</td>
<td>1.0 to 7.0</td>
<td>63</td>
<td>-1.0 to +9.0</td>
</tr>
<tr>
<td>LR3405</td>
<td>5.0 to 17.0</td>
<td>106</td>
<td>0.0 to +25.0</td>
</tr>
<tr>
<td>LR3406</td>
<td>5.0 to 35.0</td>
<td>110</td>
<td>0.0 to +40.0</td>
</tr>
</tbody>
</table>

(*) For outlet pressure drops, refer to the flow curves.

Options

D: Helium leak rate certification
E: Panel mounting kit, consists of 2 nuts
F: Extra 5 micron inlet filter
H: Compression fitting on outlet (available in various sizes)
M: Mounting on a back plate
R: No relief valve
This series of brass regulators is designed to handle high flowrates of non-corrosive gases. It features a large main valve and a flow capacity of CV=1.0. The main valve is balanced to minimise the effect on inlet pressure fluctuations on outlet pressure.
Specifications

Material
Body: brass
Bonnet: nickel plated brass
Seat: Teflon®
Diaphragm: 316L stainless steel
Gauge: brass, 64 mm diameter

Pressure/Temperature rating
Maximum inlet pressure: 210 bar.g
Temperature range: -40 °C to +74 °C

Connections
Inlet: 3/8 inch NPT female
Outlet: 3/8 inch NPT female
Relief valve: 1/4 inch NPT male

Flow
CV=1.0
The flow coefficient expresses the flow capability of the regulator.
CV is the flow of air in standard ft³/min for each psi of inlet pressure

Design leak rate
<2 x 10⁻⁸ mbar.l/sec He equivalent

Weight
1.6 kg

Installation dimensions
WxD:H : 65 mm x 150 mm x 140 mm

Design features

- Ultrasonically cleaned for high purity gas handling
- Relief valve fitted as standard for protection against over pressurisation
- Individually tested and certified to assure maximum leak-tightness and reliability
- Panel mounting facility using 2 threaded holes in the rear of the regulator

Ordering information

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Recommended outlet pressure range (bar.g)</th>
<th>Design capacity at maximum outlet pressure (*) (Nm³/h)</th>
<th>Outlet gauge range (bar.g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LR3501</td>
<td>0.1 to 0.7</td>
<td>40</td>
<td>-1.0 to +1.5</td>
</tr>
<tr>
<td>LR3502</td>
<td>0.2 to 1.7</td>
<td>80</td>
<td>-1.0 to +3.0</td>
</tr>
<tr>
<td>LR3503</td>
<td>0.5 to 3.5</td>
<td>130</td>
<td>-1.0 to +5.0</td>
</tr>
<tr>
<td>LR3504</td>
<td>1.0 to 7.0</td>
<td>250</td>
<td>-1.0 to +9.0</td>
</tr>
<tr>
<td>LR3505</td>
<td>5.0 to 17.0</td>
<td>340</td>
<td>0.0 to +25.0</td>
</tr>
</tbody>
</table>

(*) For outlet pressure drops, refer to the flow curves.

OPTIONS

- C: Cleaning for oxygen service
- D: Helium leak rate certification
- E: Panel mounting kit, consists of 2 nuts
- H: Compression fitting on outlet (available in various sizes)
- M: Mounting on a back plate
- R: No relief valve

Panel-mounted line regulator

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This series of brass regulators is designed to handle high flowrates of non-corrosive gases. It features a large main valve and a flow capacity of CV=1.0. The main valve is balanced to minimise the effect on inlet pressure fluctuations on outlet pressure.
**Specifications**

**Material**
- Body: brass
- Bonnet: nickel plated brass
- Seat: Teflon®
- Diaphragm: 316L stainless steel
- Gauge: brass, 64 mm diameter

**Pressure/Temperature rating:**
- Maximum inlet pressure: 34 bar.g
- Temperature range: -40 °C to +74 °C

**Connections**
- Inlet: 3/8 inch NPT female
- Outlet: 3/8 inch NPT female
- Relief valve: 1/4 inch NPT male

**Flow**
- CV=1.0
  - The flow coefficient expresses the flow capability of the regulator.
  - CV is the flow of air in standard ft³/min for each psi of inlet pressure

**Design leak rate**
- <2 x 10⁻⁸ mbar.l/sec He equivalent

**Weight**
- 1.6 kg

**Installation dimensions**
- WxHxD: 65 mm x 150 mm x 140 mm

**Design features**
- Ultrasonically cleaned for high purity gas handling
- Relief valve fitted as standard for protection against over pressurisation
- Individually tested and certified to assure maximum leak-tightness and reliability
- Panel mounting facility using 2 threaded holes in the rear of the regulator

**Ordering information**

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Recommended outlet pressure range (bar.g)</th>
<th>Design capacity at maximum outlet pressure (*) (Nm³/h)</th>
<th>Outlet gauge range (bar.g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LR3551</td>
<td>0.1 to 0.7</td>
<td>20</td>
<td>-1.0 to +1.5</td>
</tr>
<tr>
<td>LR3552</td>
<td>0.2 to 1.7</td>
<td>40</td>
<td>-1.0 to +3.0</td>
</tr>
<tr>
<td>LR3553</td>
<td>0.5 to 3.5</td>
<td>80</td>
<td>-1.0 to +5.0</td>
</tr>
<tr>
<td>LR3554</td>
<td>1.0 to 7.0</td>
<td>150</td>
<td>-1.0 to +9.0</td>
</tr>
<tr>
<td>LR3555</td>
<td>5.0 to 17.0</td>
<td>280</td>
<td>0.0 to +25.0</td>
</tr>
</tbody>
</table>

(*) For outlet pressure drops, refer to the flow curves.

**Options**

- **C** Cleaning for oxygen service
- **D** Helium leak rate certification
- **E** Panel mounting kit, consists of 2 nuts
- **H** Compression fitting on outlet (available in various sizes)
- **M** Mounting on a back plate
- **R** No relief valve

**Tell me more**

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250-04-041-GB
This series of stainless steel regulators is designed to handle high flowrates of gases including corrosive gases but is not suitable for oxygen service. It features a large main valve and a flow capacity of CV=1.0. The main valve is balanced to minimise the effect on inlet pressure fluctuations on outlet pressure.
Specifications

Material
Body: 316L stainless steel
Bonnet: nickel plated brass
Seat: Teflon®
Diaphragm: 316L stainless steel
Gauge: 316L stainless steel, 64 mm diameter

Pressure/Temperature rating
Maximum inlet pressure: 210 bar.g
Temperature range: -40 °C to +74 °C

Connections
Inlet: 3/8 inch NPT female
Outlet: 3/8 inch NPT female
Relief valve: 1/4 inch NPT male

Flow
CV=1.0
The flow coefficient expresses the flow capability of the regulator.
CV is the flow of air in standard ft³/min for each psi of inlet pressure

Design leak rate
<2 x 10⁻⁸ mbar.l/sec He equivalent

Weight
1.6 kg

Installation dimensions
WxHxD: 65 mm x 150 mm x 140 mm

Design features
• Ultrasonically cleaned for high purity gas handling
• Relief valve fitted as standard for protection against over pressurisation
• Individually tested and certified to assure maximum leak-tightness and reliability
• Panel mounting facility using 2 threaded holes in the rear of the regulator

Ordering information

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Recommended outlet pressure range (bar.g)</th>
<th>Design capacity at maximum outlet pressure (*) (Nm³/h)</th>
<th>Outlet gauge range (bar.g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LR3601</td>
<td>0.1 to 0.7</td>
<td>40</td>
<td>-1.0 to +1.5</td>
</tr>
<tr>
<td>LR3602</td>
<td>0.2 to 1.7</td>
<td>80</td>
<td>-1.0 to +3.0</td>
</tr>
<tr>
<td>LR3603</td>
<td>0.5 to 3.5</td>
<td>130</td>
<td>-1.0 to +5.0</td>
</tr>
<tr>
<td>LR3604</td>
<td>1.0 to 7.0</td>
<td>250</td>
<td>-1.0 to +9.0</td>
</tr>
<tr>
<td>LR3605</td>
<td>5.0 to 17.0</td>
<td>340</td>
<td>0.0 to +25.0</td>
</tr>
</tbody>
</table>

(*) For outlet pressure drops, refer to the flow curves.

Options

D: Helium leak rate certification
E: Panel mounting kit, consists of 2 nuts
H: Compression fitting on outlet (available in various sizes)
M: Mounting on a back plate
R: No relief valve

LR3600 SERIES
Flow curves

Panel-mounted line regulator

© Air Products and Chemicals, Inc. 2004
This series of stainless steel regulators is designed to handle high flowrates of gases including corrosives. It features a large main valve and a flow capacity of $CV=1.0$. The main valve is balanced to minimise the effect on inlet pressure fluctuations on outlet pressure.
Specifications

Material
Body: 316L stainless steel
Bonnet: nickel plated brass
Seat: Teflon®
Diaphragm: 316L stainless steel
Gauge: 316L stainless steel,
64 mm diameter

Pressure/Temperature rating
Maximum inlet pressure: 34 bar.g
Temperature range: -40 °C to +74 °C

Connections
Inlet: 3/8 inch NPT female
Outlet: 3/8 inch NPT female
Relief valve: 1/4 inch NPT male

Flow
CV=1.0
The flow coefficient expresses the flow capability of the regulator.
CV is the flow of air in standard ft³/min
for each psi of inlet pressure

Design leak rate
<2 x 10⁻⁷ mbar.l/sec He equivalent

Weight
1.6 kg

Installation dimensions
WxHxD: 65 mm x 150 mm x 140 mm

Design features

- Ultrasonically cleaned for high purity gas handling
- Relief valve fitted as standard for protection against over pressurisation
- Individually tested and certified to assure maximum leak-tightness and reliability
- Panel mounting facility using 2 threaded holes in the rear of the regulator

Design curves

Ordering information

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Recommended outlet pressure range (bar.g)</th>
<th>Design capacity at maximum outlet pressure (*) (Nm³/h)</th>
<th>Outlet gauge range (bar.g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LR3651</td>
<td>0.1 to 0.7</td>
<td>20</td>
<td>-1.0 to +1.5</td>
</tr>
<tr>
<td>LR3652</td>
<td>0.2 to 1.7</td>
<td>40</td>
<td>-1.0 to +3.0</td>
</tr>
<tr>
<td>LR3653</td>
<td>0.5 to 3.5</td>
<td>80</td>
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</tr>
<tr>
<td>LR3654</td>
<td>1.0 to 7.0</td>
<td>150</td>
<td>-1.0 to +9.0</td>
</tr>
<tr>
<td>LR3655</td>
<td>5.0 to 17.0</td>
<td>280</td>
<td>0.0 to +25.0</td>
</tr>
</tbody>
</table>

(*) For outlet pressure drops, refer to the flow curves.

Options

- **C**: Cleaning for oxygen service
- **D**: Helium leak rate certification
- **E**: Panel mounting kit, consists of 2 nuts
- **H**: Compression fitting on outlet (available in various sizes)
- **M**: Mounting on a back plate
- **R**: No relief valve

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250-04-043-GB
This regulator is specially designed for high inlet and outlet pressure applications in non-corrosive gas service. For non-hazardous gases the regulator is supplied as standard with self-venting capability. For hazardous non-corrosive gases a non-venting option is available. The self-venting regulator allows the operator to reduce the pressure setting in a closed system by venting the downstream pressure through the regulator.
Specifications

Material
- Body: brass
- Bonnet: brass
- Main seat: VESPEL®
- Vent valve seat: PCTFE
- Trim: 300L stainless steel
- Inlet filter: bronze
- Gauge: brass, 64 mm diameter

Pressure/Temperature rating
- Maximum inlet pressure: 415 bar.g
- Temperature range: -40 °C to +75 °C

Connections
- Inlet: 1/4 inch NPT female
- Outlet: 1/4 inch NPT female

Flow
- CV=0.06
  - The flow coefficient expresses the flow capability of the regulator.
  - CV is the flow of air in standard ft³/min for each psi of inlet pressure

Design leak rate
- <2 x 10⁻¹ mbar.l/sec He equivalent

Weight
- 2.4 kg

Installation dimensions
- WxHxD: 145 mm x 120 mm x 170 mm

Design features

- Suitable for ultra high inlet & outlet pressures
- Stable operation over a wide range of high outlet pressures
- Self-venting as standard
- Individually tested and certified to assure maximum leak-tightness and reliability
- Panel mounting facility using 2 threaded holes in the rear of the regulator

Ordering information

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Recommended outlet pressure range (bar.g)</th>
<th>Design capacity at maximum outlet pressure (*) (Nm³/h)</th>
<th>Inlet gauge range (bar.g)</th>
<th>Outlet gauge range (bar.g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R2307</td>
<td>5 to 70</td>
<td>200</td>
<td>0 to 420</td>
<td>0 to 100</td>
</tr>
<tr>
<td>R2308</td>
<td>10 to 280</td>
<td>300</td>
<td>0 to 420</td>
<td>0 to 315</td>
</tr>
<tr>
<td>R2309</td>
<td>20 to 415</td>
<td>400</td>
<td>0 to 420</td>
<td>0 to 420</td>
</tr>
</tbody>
</table>

(*) For outlet pressure drops, refer to the flow curves.

Options

- Cleaning for oxygen service (C)
- Helium leak rate certification (D)
- Panel mounting kit, consists of 2 nuts (E)
- Purge system (see datasheet) (G)
- Compression fitting on outlet (available in various sizes) (H)
- Mounting on a back plate (M)
- Non-venting version for hazardous, non-corrosive gases (NV)

Panel-mounted line regulator

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This regulator is specially designed for high inlet and outlet pressure applications and is suitable for corrosive gas service but not for oxygen service. For non-hazardous gases the regulator is supplied as standard with self-venting capability. For hazardous gases a non-venting option is available. For maximum cleanliness, stainless steel is often the preferred material in high purity non-corrosive applications.
## Specifications

**Material**
- Body: 316L stainless steel
- Bonnet: 316L stainless steel
- Main seat: VESPEL®
- Vent valve seat: PCTFE
- Trim: 300L stainless steel
- Inlet filter: 316L stainless steel
- Gauge: 316L stainless steel, 64 mm diameter

**Pressure/Temperature rating**
- Maximum inlet pressure: 415 bar.g
- Temperature range: -40 °C to +75 °C

**Connections**
- Inlet: 1/4 inch NPT female
- Outlet: 1/4 inch NPT female

**Flow**
- CV=0.06
  - The flow coefficient expresses the flow capability of the regulator.
  - CV is the flow of air in standard ft³/min for each psi of inlet pressure

**Design leak rate**
- <2 x 10⁻⁸ mbar.l/sec He equivalent

**Weight**
- 2.4 kg

**Installation dimensions**
- WxHxD: 145 mm x 120 mm x 170 mm

## Design features

- Suitable for ultra high inlet & outlet pressures
- Stable operation over a wide range of high outlet pressures
- Self-venting as standard
- Individually tested and certified to assure maximum leak-tightness and reliability
- Panel mounting facility using 2 threaded holes in the rear of the regulator

## Ordering information

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Recommended outlet pressure range (bar.g)</th>
<th>Design capacity at maximum outlet pressure (*) (Nm³/h)</th>
<th>Inlet gauge range (bar.g)</th>
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</thead>
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<td>200</td>
<td>0 to 420</td>
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<td>R2408</td>
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(*): For outlet pressure drops, refer to the flow curves.

### OPTIONS
- **D**: Helium leak rate certification
- **E**: Panel mounting kit, consists of 2 nuts
- **G**: Purge system (see datasheet)
- **H**: Compression fitting on outlet (available in various sizes)
- **M**: Mounting on a back plate
- **NV**: Non-venting version for hazardous, non-corrosive gases

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