Rotarex Pressure Regulators modulate the discharge pressure to a constant 40-60 bar which still delivers the design concentration within 60 seconds, but with significant performance and cost benefits:

**BETTER SAFETY:**
- Prevents discharge freeze-up
- Prevents explosive force of discharge

**SAVES TIME AND MONEY:**
- Enables low pressure manifolds & pipework to be used - that are lower cost and easy to install
- Reduces the difficulty and cost of locating/fitting pressure vents in the protected space

**EASY MAINTENANCE:**
- After a system discharge, simply remove the regulator, recharge, and reconnect. No reconditioning necessary
- Functional tests are possible even while the system is armed

### SOFTWARE AVAILABILITY

Design software is available to calculate fire suppression systems to ISO 14520, Vds 2380 and NFPA 2001.
3 CYLINDER/VALVE ASSEMBLIES

80L CYLINDER/VALVE ASSEMBLY FOR 300 BAR N2 GAS

A complete ready-to-fill cylinder/valve assembly.
- Empty 80L cylinder for 300 bar inert gases
- B0480 cylinder valve and steel protection cap

High Pressure cylinder valves for 300 bar inert gas fire suppression systems.

KEY FEATURES
- Available in 300 bar versions
- Requires one of 4 actuator device options
- Special connections available on request

PROVEN TECHNOLOGY

Rotarex is the world leader in high-performance cylinder valves for fixed extinguishing systems as well as Ultra High Purity, Medical, Cryogenic, Automotive and LPG applications. They leverage 90-year expertise, vast R&D infrastructure and global scale to provide the most technically advanced and dependable fire suppression valves in the market. Trust Rotarex valves to perform when it most counts.

Rotarex recommends its high-performance Series B0480 valve technology for 200/300 bar inert gas systems. Over 200,000 valves are already in service.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Working pressure</th>
<th>300 bar versions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seamless Steel Cylinder Water volume 80l</td>
<td></td>
</tr>
<tr>
<td>Gas to be filled*</td>
<td>IG 01, IG 55, IG 100, IG 541</td>
</tr>
<tr>
<td>Test pressure</td>
<td>450 bar</td>
</tr>
</tbody>
</table>

| Weight empty | ≈ 103 Kg |
| Length w/o cap | 1760 ± 20mm |
| Diameter | 267 mm ± 1% |

<table>
<thead>
<tr>
<th>Working pressure</th>
<th>300 bar versions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet connection</td>
<td>C = 2SE EN-629-1</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-20°C to +60°C</td>
</tr>
<tr>
<td>Seat orifice size</td>
<td>12 mm</td>
</tr>
<tr>
<td>Dip tube connection</td>
<td>G = M 16 x 1</td>
</tr>
<tr>
<td>Standard burst disc</td>
<td>p = 450 bar</td>
</tr>
</tbody>
</table>

Rotarex recommends its high-performance Series B0480 valve technology for 200/300 bar inert gas systems. Over 200,000 valves are already in service.

Product code B04802007
### Constant Discharge Pressure Regulator

**Key Features**

- Reduces discharge pressure to a pre-set pressure (60 bar)
- Attaches to the valve discharge port
- Helps prevent blockage due to line freezing
- Helps reduce pressure blow-outs and venting requirements
- VdS certified

![Image of Constant Discharge Pressure Regulator](image)

**Specifications**

| Nominal inlet pressure | 300 bar | Inlet connection | A = W21,8 x ⅜" * * DIN 477 |
| Max inlet pressure | 360 bar | Outlet connection* | C = M30x2 |
| Inlet orifice size | 12 mm | Dynamic outlet pressure | see chart |
| Static outlet pressure | 60 bar |

**Mounts on B0480 valve**

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### Manual Release Device

Device to actuate the release of extinguishing agent.

For use with Series B0480 valves.

- For manual actuation of the system
- Can be used with electromagnetic actuators

![Image of Manual Release Device](image)

**Specifications**

<table>
<thead>
<tr>
<th>Product code</th>
<th>B04420065</th>
<th>Manual/Pneumatic Release Device</th>
<th>Pneumatic Release Device -20 Bar</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Working pressure</strong></td>
<td>300 bar</td>
<td>300 bar</td>
<td>300 bar</td>
</tr>
<tr>
<td><strong>Valve connection</strong></td>
<td>M42 x 1,5</td>
<td>M42 x 1,5</td>
<td>M42 x 1,5</td>
</tr>
<tr>
<td><strong>Pneumatic connection</strong></td>
<td>G½&quot;</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Actuation force/pressure</strong></td>
<td>150N</td>
<td>20 bar for 300 bar systems: p max = 340</td>
<td>20 bar for 300 bar systems: p max = 340</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 bar for 200 bar systems: p max = 250</td>
<td>15 bar for 200 bar systems: p max = 250</td>
</tr>
</tbody>
</table>
**ELECTROMAGNETIC RELEASE DEVICE**

**KEY FEATURES**

- Most commonly used as a master valve to actuate the system electronically, such as with connection to a smoke or heat detection device
- Electronically actuates the release of extinguishing agent

Device to electronically actuate the release of extinguishing agent.

For use with Series B0480 valves

---

**WITH DIODE AND WITHOUT DIODE**

**WITH BLOCKING DEVICE**

---

**B04425131**

<table>
<thead>
<tr>
<th></th>
<th>WITH DIODE</th>
<th>WITHOUT DIODE</th>
<th>WITH BLOCKING DEVICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve connection</td>
<td>$B = M42 \times 1.5$</td>
<td>$B = M42 \times 1.5$</td>
<td>$B = M42 \times 1.5$</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>24 VDC</td>
<td>24 VDC</td>
<td>24 VDC</td>
</tr>
<tr>
<td>Electrical connection</td>
<td>PG 9</td>
<td>PG 9</td>
<td>PG 9</td>
</tr>
<tr>
<td>Nominal current</td>
<td>0.5 A</td>
<td>0.5 A</td>
<td>0.5 A</td>
</tr>
<tr>
<td>Protection Class</td>
<td>IP65</td>
<td>IP65</td>
<td>IP65</td>
</tr>
</tbody>
</table>

*Applies to versions B04425131 and B04425132*

Special thread options available on request
PILOT HOSES

Hose to connect multiple cylinders in a series.
Connects a master valve or a pneumatic actuator with an other pneumatic actuator

90° PILOT HOSE

- One end has a 90° elbow fitting
- 400 bar working pressure
- Adapter B must be ordered separately
  (one for each hose end)

STRAIGHT PILOT HOSE

- Both ends have a straight fitting
- 350 bar working pressure

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Working pressure</th>
<th>Burst pressure</th>
<th>Temperature Range</th>
<th>Material</th>
<th>Interior diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>400 bar</td>
<td>1600 bar</td>
<td>-40°C to 100°C</td>
<td>Synthetic rubber oil resistant</td>
<td>¼”</td>
</tr>
<tr>
<td>Torque</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20-25 Nm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DISCHARGE HOSE

Hose to connect the cylinder valve to the manifold in fixed fire suppression systems.
350 bar working pressure.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Working pressure</th>
<th>Burst pressure</th>
<th>Temperature range</th>
<th>Material</th>
<th>Check valve connection (outlet)</th>
<th>Bending radius</th>
<th>Interior diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>350 bar</td>
<td>1400 bar</td>
<td>-40°C to 100°C</td>
<td>Synthetic rubber oil resistant</td>
<td>¼” BSP</td>
<td>180 mm</td>
<td>½”</td>
</tr>
<tr>
<td>Torque</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38-42 Nm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Brass discharge nozzles for inert gas systems.

**KEY FEATURES**
- Max. working pressure 300 bar
- Material: brass
- Special orifice diameters available on request

### Size of thread | Product code | Orifice Diameter
--- | --- | ---
1" BSP  | B04611300 | 10
        | B04611301 | 11
        | B04611302 | 12
        | B04611303 | 13
        | B04611304 | 14
        | B04611305 | 15
        | B04611306 | 16
        | B04611307 | 17
        | B04611308 | 18
1 ½" BSP | B04611400 | 15
         | B04611401 | 16
         | B04611402 | 17
         | B04611403 | 18
         | B04611404 | 19
         | B04611405 | 20
         | B04611406 | 21
         | B04611407 | 22
         | B04611408 | 23
         | B04611409 | 24
         | B04611410 | 25
         | B04611411 | 26
1" BSP  | B04611300 | 10
        | B04611301 | 11
        | B04611302 | 12
        | B04611303 | 13
        | B04611304 | 14
        | B04611305 | 15
        | B04611306 | 16
        | B04611307 | 17
        | B04611308 | 18

**Size of thread**
- ½" BSP
- ¾" BSP
- 1" BSP
- 1 ½" BSP
**VALVE SPECIFICATIONS**

- **Working Pressure**: 100 bar
- **Type**: Ball valve 2 way
- **Material**: Carbon Steel
- **Weight**:
  - 1": 3.45 Kg
  - 1½": 8.07 Kg
  - 2": 10.15 Kg

Valve and actuator assembly to isolate separate protection zones from the same cylinder rack.

Permits discharge only in the zone with the fire.

**KEY FEATURES**

- Choice of 4 diameters: 1" / 1½" / 2" / 3"
- Actuates system discharge electronically or manually

**ACTUATOR SPECIFICATIONS**

- **Voltage**: 12-24 V AC/DC
- **Current**:
  - 12 V DC/2.90A - 24 V DC/ 1.35A
- **Operating time**: 90°/12 seconds no lead
- **Max operating torque**: 35 Nm
- **Working angle**: 90°
- **Statut indicator**: LED
- **Output**: 2 micro switches and line end of travel confirmation
- **Protection**: Electronic over-torque protection / valve jams
- **IP Rating**: IP 65

*VDS version available

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**VdS**

**CE**