# Technical Data Sheet

## Gas booster DLE 15-75

### Technical Data:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air drive pressure $p_L$</td>
<td>1-10 bar / 14.5 - 145psi</td>
</tr>
<tr>
<td>Pressure ratio $i$</td>
<td>1:15/1:75</td>
</tr>
<tr>
<td>Compression ratio</td>
<td>1:100</td>
</tr>
<tr>
<td>Stage pressure ratio</td>
<td>1.5</td>
</tr>
<tr>
<td>Minimum suction pressure $p_A$</td>
<td>7</td>
</tr>
<tr>
<td>Maximum suction pressure $p_A$</td>
<td>2.5* air drive pressure $p_L$</td>
</tr>
<tr>
<td>Maximum outlet pressure $p_B$</td>
<td>1,500 bar</td>
</tr>
<tr>
<td>Displacement volume/double stroke</td>
<td>122 cm³</td>
</tr>
<tr>
<td>Maximum cycles</td>
<td>120 / min</td>
</tr>
<tr>
<td>Stall pressure $p_B$</td>
<td>$PB = 75\times p_L + 75/15\times p_A$</td>
</tr>
</tbody>
</table>

### Standard Connections:

- Air drive: 3/4 BSP
- DLE 15-75 (-GG) Inlet/Outlet: 1/4BSP
- Maximum operating tempreature: 100°C
- Net weight: 19 kg

### Materials of construction hp section DLE 15-75:

- **Standard seal package:** PTFE, Viton
- **Compressor head:** 1.4305
- **HP cylinder:** 1.4542
- **HP piston:** 1.4305
- **Fittings:** 1.4305
- **Balls:** 1.4034
- **Springs:** 1.4310

### Approximate Dimensions:

- **Length:** 620 mm
- **Width:** 181 mm
- **Height:** 233 mm

### Available Options:

- Inert gas service (standard) DLE 15-75 (-GG)
- Oxygen service: DLE 15-75-GG-S
- CO₂ service: DLE 15-75-GG-C
- In-/Outlet: 9/16-18UNF DLE 15-75-UU
- In-/Outlet: 1/4NPT DLE 15-75-NN

### Available Accessories:

- Air control units with filter pressure regulator, control pressure gauge and shut off valve: DLE 15-75 with C2
- To protect the booster against excessive outlet pressures or to limit the outlet pressure, a safety valve can be fitted to the air control unit in the air drive line: DLE 15-75 with C2/SVair (The required outlet pressure has to be indicated.)

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Please consult factory for more information. All technical and dimensional information subject to change. All General Terms and Conditions of sale, including limitations of our liability, apply to all products and services sold.
Maßzeichnung / Dimension drawing

Typ / type: DLE 15 - 30, DLE 15 - 75, DLE 30 - 75

Details on the diagram include:
- \( P_L \)
- Dimensions and measurements

Technical notes:
- \( \text{Nietanschluss} \)
- \( \text{Kraftabgabe} \)
- \( \text{Kraftaufnahme} \)

Sicherheitslevel: max. 75 dB(A)
noise level: max.

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Performance Graph DLE 15 - 75
Drive Pressure 4 bar
Max. Outlet Pressure 875 bar

Outlet Pressure (bar)
Outlet Flow (l/min)
Air Consumption (l/min)

Outlet Flow at Pv = 7 bar
Outlet Flow at Pv = 8 bar
Outlet Flow at Pv = 9 bar
Outlet Flow at Pv = 10 bar
Air Consumption at Pv = 7 bar
Air Consumption at Pv = 8 bar
Air Consumption at Pv = 9 bar
Air Consumption at Pv = 10 bar

Outlet Pressure (bar)
Outlet Flow (l/min)
Air Consumption (l/min)

Performance Graph DLE 15 - 75
Drive Pressure 6 bar
Max. Outlet Pressure 875 bar

Outlet Pressure (bar)
Outlet Flow (l/min)
Air Consumption (l/min)

Outlet Flow at Pv = 9 bar
Outlet Flow at Pv = 11 bar
Outlet Flow at Pv = 13 bar
Outlet Flow at Pv = 15 bar
Air Consumption at Pv = 9 bar
Air Consumption at Pv = 11 bar
Air Consumption at Pv = 13 bar
Air Consumption at Pv = 15 bar

Outlet Pressure (bar)
Outlet Flow (l/min)
Air Consumption (l/min)

Performance Graph DLE 15 - 75
Drive Pressure 8 bar
Max. Outlet Pressure 875 bar

Outlet Pressure (bar)
Outlet Flow (l/min)
Air Consumption (l/min)

Outlet Flow at Pv = 11 bar
Outlet Flow at Pv = 14 bar
Outlet Flow at Pv = 17 bar
Outlet Flow at Pv = 20 bar
Air Consumption at Pv = 11 bar
Air Consumption at Pv = 14 bar
Air Consumption at Pv = 17 bar
Air Consumption at Pv = 20 bar