Bleeder Valves
The Paul Wurth bleeder valves provide safety from blast furnace overpressure. Typical implementation involves installation of two to three raw gas bleeder valves at the top of the blast furnace uptakes and one on the semi-clean gas-side of the first scrubbing stage.

**Benefits**

- Nearly constant pressure during progressive flap opening against springs
- No pressure “overshoot”
- Continuously increasing flow rate
- Simple, efficient maintenance.
- High reliability and availability
- Long service life

Available sizes are: ND500 – ND630 – ND800

<table>
<thead>
<tr>
<th>Bleeder size</th>
<th>ND 500</th>
<th>ND 630</th>
<th>ND 800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening time (s)</td>
<td>4</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Closing time (s)</td>
<td>3</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Connecting flange</td>
<td>ND 800</td>
<td>ND 1000</td>
<td>ND 1000</td>
</tr>
<tr>
<td>Blow-off section (m²)</td>
<td>0.19</td>
<td>0.31</td>
<td>0.50</td>
</tr>
</tbody>
</table>
Blast Furnace Plants

Key features

- Preloaded disc spring column
- In case of hydraulic failure, the bleeder valve opens against the springs (higher pressure than during normal operation)
- Actioning bow allows manual emergency opening of the bleeder valve
- A regulating butterfly valve creates counter pressure during shutdown, blow-down and blow-in procedures

Since 1960, over 390 bleeder valves have been delivered worldwide by Paul Wurth.
The Paul Wurth Group is today one of the world leaders in the design and supply of complete plants, systems and processes as well as specialised mechanical equipment for

- **the iron & steel industry:**
  - Blast Furnaces & Auxiliary Plants
  - Coke Making Plants
  - Agglomeration Plants
  - Direct Reduction Plants
  - Environmental Protection, Recycling & Energy-Saving Technologies

- **other industries:**
  - Systems & Equipment for Non-Ferrous Pyrometallurgy, Electrometallurgy & Residue Treatment
  - Intralogistics Solutions for Heavy Loads
  - Engineering & Project Management for Civil Construction and Infrastructure Projects


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