VCL PRODUCT RANGE

- Goggle Valves
- Lever Valves
- Double Eccentric Valves
- Butterfly and Louver Valves
- Dust Outlet Valves
- Hot Blast Valves (Energy saving)
- Tuyere Stocks (Energy saving)
- Wedge Gate Valves

ADDITIONAL PRODUCTS

- Push Lever Valves, Short Valves, Bleeder Valves, Equalizing & Relief Valves,
  - Back Draft Valves, Non Return Valves, Line Blinds

ADDITIONAL SERVICES

- Repair Service, Refurbishment and Modifications,
- Spare parts for each kind and brand of Valves
Fabricated construction
Valve actuation by hydraulic cylinder (Standard)
Pressure rating up to 6.0 bar
Service temperatures up to 500 °C
Nominal sizes up to DN 800
Other sizes or operating conditions on request

**DESIGN FEATURES OF BLEEDER VALVES**

- Reliable emergency opening against springs
- Only minimal overpressure in bell less top and washer after (emergency) opening of the bleeder -> good protection of equipment
- Reduced maintenance and improved accessibility of equipment which is located on the same platform
- Higher reliability & availability thanks to continuously improved design and customer feedback over several years

**THIS DESIGN GUARANTEES**

<table>
<thead>
<tr>
<th>Bleeder Size [DN]</th>
<th>500</th>
<th>630</th>
<th>800</th>
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</thead>
<tbody>
<tr>
<td><strong>Opening time [s]</strong></td>
<td>4</td>
<td>4</td>
<td>6</td>
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<tr>
<td><strong>Closing time [s]</strong></td>
<td>3</td>
<td>3</td>
<td>4</td>
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<tr>
<td><strong>Connecting flange [DN]</strong></td>
<td>800</td>
<td>1000</td>
<td>1000</td>
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<td><strong>Blow-off section [m²]</strong></td>
<td>0.19</td>
<td>0.31</td>
<td>0.50</td>
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