### VCL PRODUCT RANGE

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

### ADDITIONAL PRODUCTS

- Push Lever Valves, Short Valves, Bleder 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

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DESIGN FEATURES OF EQUALIZING VALVES

- Fabricated Construction
- Valve actuation with hydraulic Cylinder (Standard)
- Pressure rating up to 3.0 bar
- Service temperatures up to 500 °C
- Nominal sizes DN 250 - DN 600
- Other sizes or operating conditions on request

THIS DESIGN GUARANTEES

- Seat may be dismantled through the maintenance door without removing the valve itself
- Reduced maintenance and improved accessibility of equipment due to large maintenance door
- The dismantling of the welded lever/flap unit is possible, thus facilitating maintenance and exchange
- Higher reliability & availability thanks to continuously improved design and customer feedback over several years

<table>
<thead>
<tr>
<th>Full opening diameter [mm]</th>
<th>250; 400; 500; 600</th>
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</thead>
<tbody>
<tr>
<td>Opening time [s]</td>
<td>3</td>
</tr>
<tr>
<td>Closing time [s]</td>
<td>3</td>
</tr>
<tr>
<td>Max furnace top pressure [bar]</td>
<td>3</td>
</tr>
<tr>
<td>Hydraulic pressure on cylinder [bar]</td>
<td>180 - 200</td>
</tr>
</tbody>
</table>

- The forged arm has been replaced by a shaft and a lever
- The lever/flap assembly may be dismantled as one unit
- The seat is a separate part in order to make replacement easier
- Being located inside the casing, the seat may be replaced without removing the valve casing