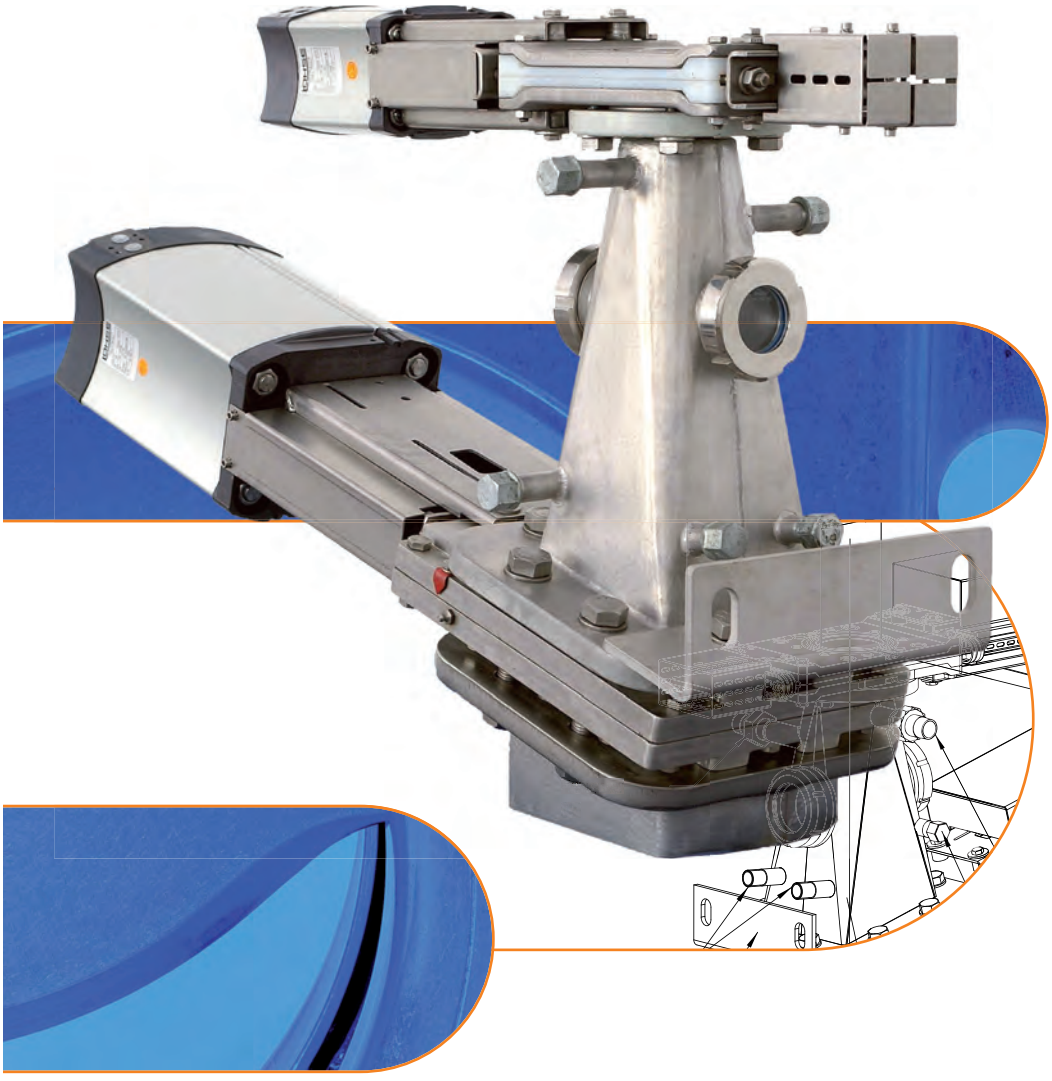
Valves of stainless steel

Dirt Traps RSL

of stainless steel



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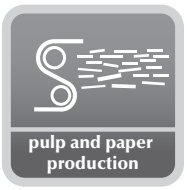
Applications



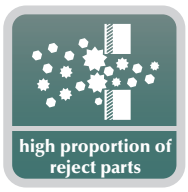
The LOHSE dirt traps RSL have been specially designed for the removal of foreign particles from the cleaning process.

They are used to remove reject particles from fibrous media of various viscosity. They can be used in all types of cleaning machines, tanks and pipelines.

The maximum permissible operating temperature for LOHSE RSL dirt traps is 80 °C / 176° F (dirt traps for higher temperatures are available on request).

The maximum permissible operating pressure for LOHSE RSL dirt traps is 6 bar (dirt traps for higher pressures are available on request).

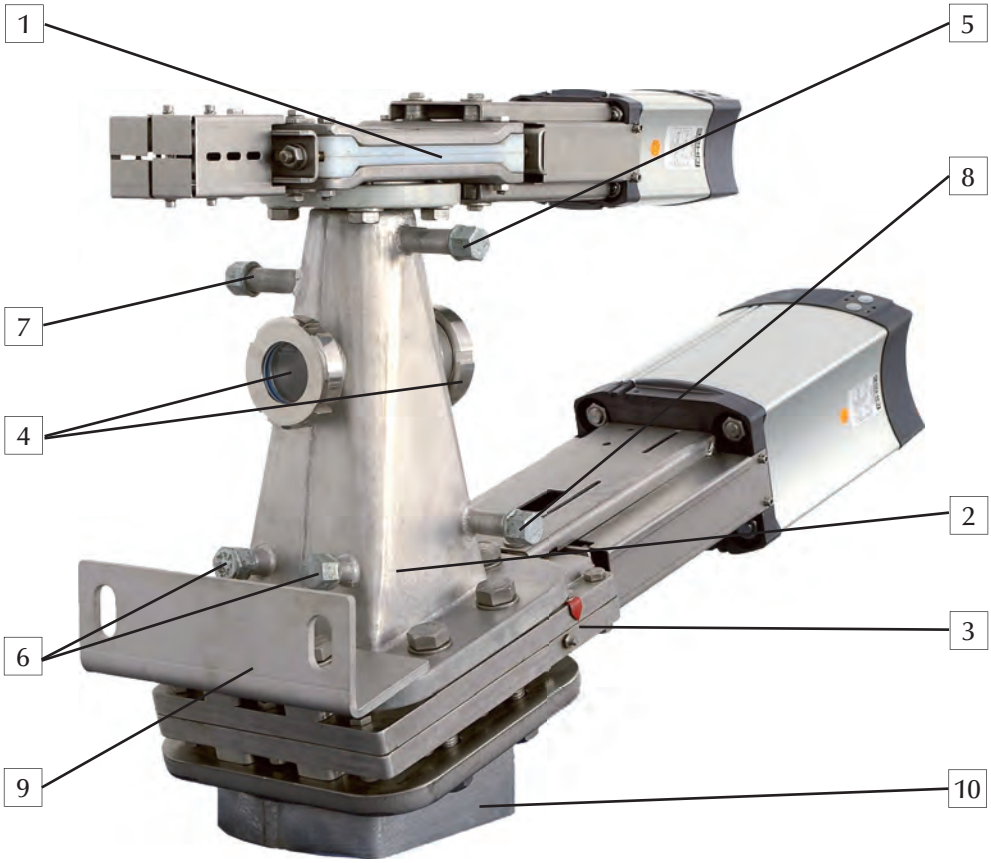
Media



Benefits

- the inclined positioning of the discharge valve prevents the build up of turbulence in the centre of the valve slide plate; as a result there is markedly less wear on the valve slide plate
- the right angular cross section of the discharge valve prevents small parts getting stuck between the valve body and the slide plate
- two back water connections prevent congestion in dead corners
- regulated heavy rejects removal: by means of 2 sight glasses an optimal adjustment of the back water level becomes possible
- pressure relief when at its highest level by means of an air extraction connection
- dirt trap volume can be selected (see list)

Construction



pos.	description	remark
1	inlet valve CDSVP/G	round cross-section
2	sluice chamber	round to rectangular
3	discharge valve AEQP/G	rectangular cross-section
4	sight glasses	
5	air relief C	periodical operating interval
6	cleaning/ filling connections A / B	periodical operating interval
7	flush water connection D	connection recommende by manufacturer
8	flush water connection E	connection recommende by manufacturer
9	attaching device	
10	outlet piece	

Process description

Start of dirt trap control

Power to solenoid valves	„on“
Water pressure	„ok“
Water	„supply ok“
Pump of cleaning machine	„off“
Compressed air for shut-off valve	„supply ok“
- Pressure	„ok“
- Flow control valve	„adjusted“

START – Flushing phase of dirt trap

The moment the pump in front of the cleaning machine is started, the timer relay of the cycle control system is started.
After the cycle time has lapsed:

- Timer relay cycle time	„0“
- Upper shut-off valve	„closed“
- Lower shut-off valve	„open“
- Filling water solenoid valve	„open“
- FILLING timer relay	„on“ (10 to 20 sec.)
- Signal lower valve	„closed“ via exhaust air restrictor
- VENTING timer relay	„on“ (10 to 20 sec.)
- Signal lower valve	„closed“
- FILLING timer relay after time has lapsed	„off“
- Filling water solenoid valve	„closed“
- VENTING timer relay after time has lapsed	„off“
- Air relief solenoid valve	„closed“
- Upper shut-off valve	„open“

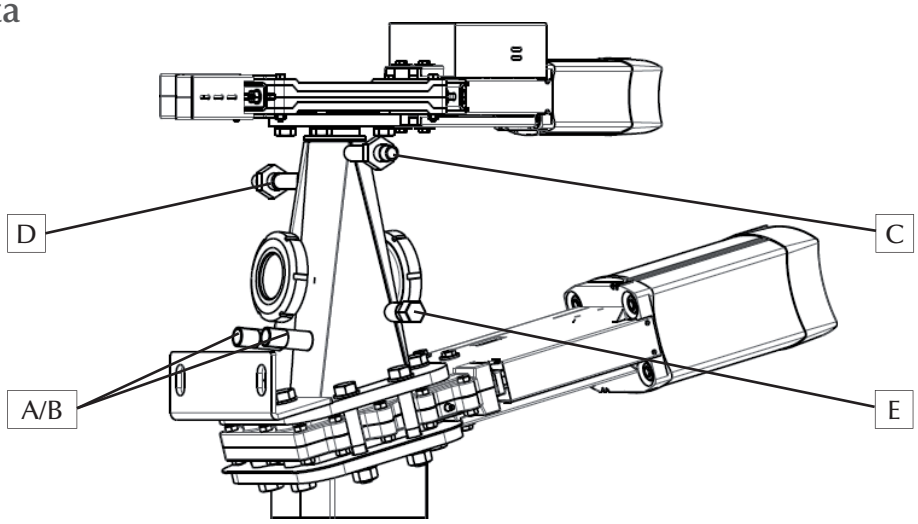
If required:
- Readjustment of dilution water by means of manually operated taps
- Next cycle time started through timer relay „on“ (5 to 120 minutes)

* All values are approximate and must be adapted to the specific system!

Interlocking:

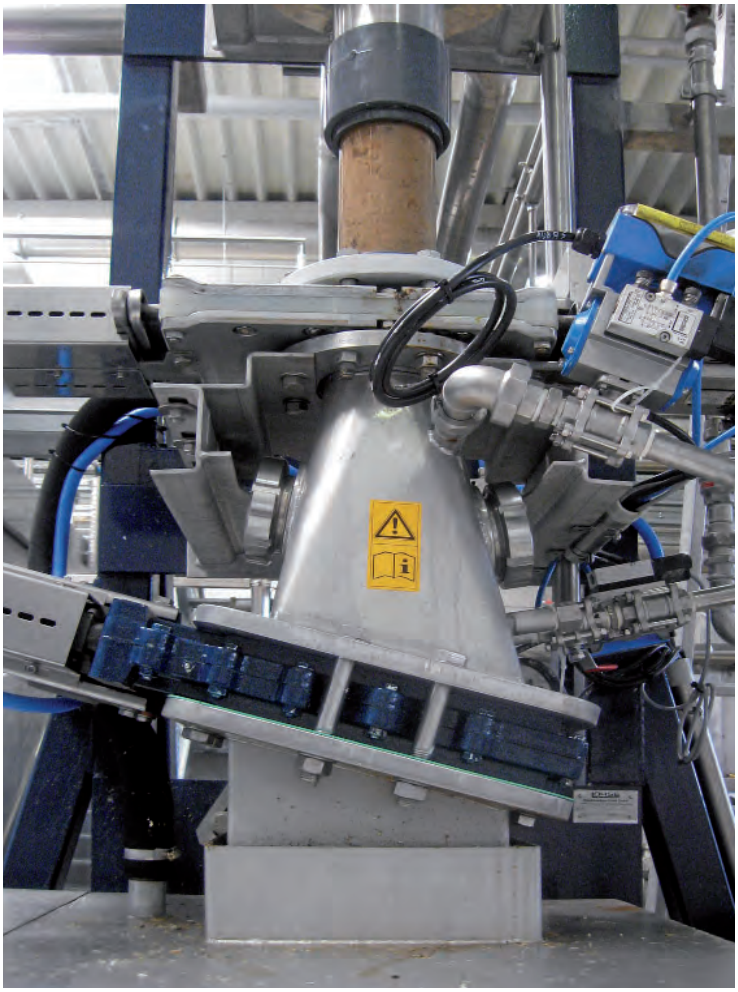
if there is no compressed air
if there is no dilution water
if there is no control voltage
if there is no medium
if the medium pressure drops in front of the cleaning machine

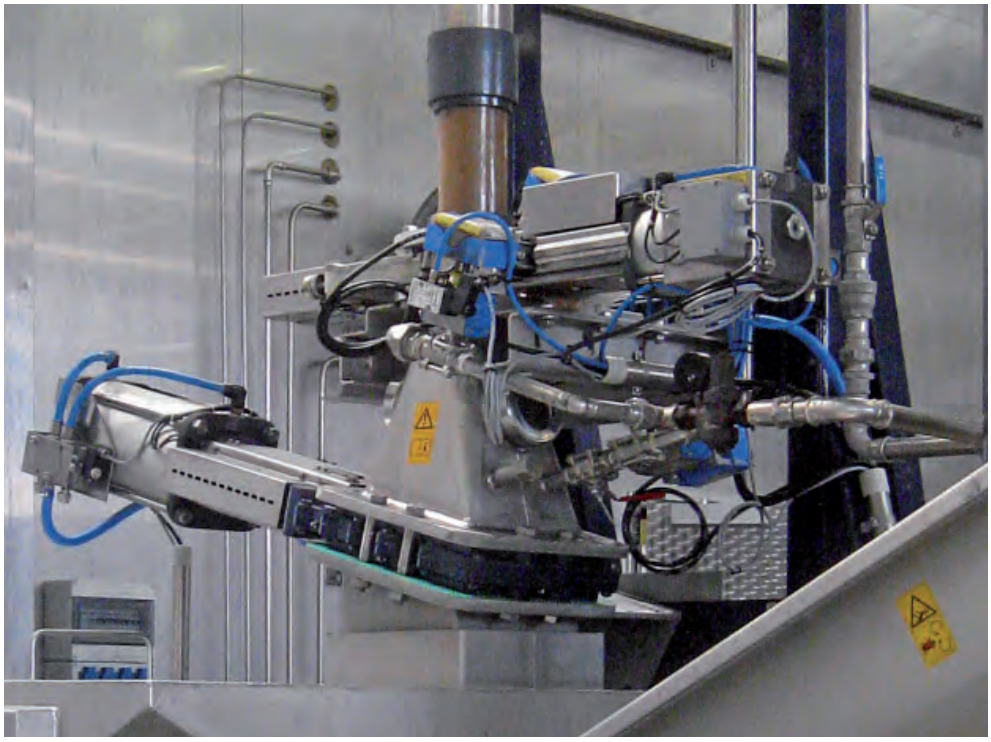
Technical data



Type	Inlet valve Reject-valve type CDSVP/G	Outlet valve Reject-valve type AEQP/G	Volume ~ [l]	Overall height [mm]	Air relief C [inch]	cleaning/ filling connections A / B [inch]	flush water connect. D [inch]	flush water connect. E [inch]
RSL 50/150	DN 50	DN 150	5	682	1/2	3/4	1/2	3/4
RSL 65/150	DN 65	DN 150	5	682	1/2	3/4	1/2	3/4
RSL 80/150	DN 80	DN 150	5	695	1/2	3/4	1/2	3/4
RSL 100/150	DN 100	DN 150	8	635	1	3/4	1	3/4
RSL 100/200	DN 100	DN 200	11	650	1	3/4	1	3/4
RSL 100/250	DN 100	DN 250	15	634	1	3/4	1	3/4
RSL 125/250	DN 125	DN 250	15	635	1	3/4	1	3/4
RSL 150/200	DN 150	DN 200	13	660	1	3/4	1	3/4
RSL 150/250	DN 150	DN 250	17	662	1	3/4	1	3/4
RSL 200/250	DN 200	DN 250	22	745	1	3/4	1	3/4
RSL 250/300	DN 250	DN 300	40	823	1	3/4	1	3/4
RSL 300/400	DN 300	DN 400	~ 80	985	1	3/4	1	3/4

Outlet valve of grey cast iron (G) or stainless steel (E).





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