STR Valves

Severe-duty valve for cleaning and detrashing applications

Robust design handles high concentration of heavy contaminants

STR Valves with the STR 8-10 Reject Chamber
STR Valves

The STR valve is severe-duty stainless steel knife gate valve for use in high and medium density cleaning systems. Its rugged construction makes quick work of high concentration contaminants such as glass, sand, staples, nuts, bolts, and other hard debris. These durable valves are now produced in the following sizes.

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>Diameter</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>STR 4</td>
<td>4 inches</td>
<td>100 mm</td>
</tr>
<tr>
<td>STR 6</td>
<td>6 inches</td>
<td>150 mm</td>
</tr>
<tr>
<td>STR 8</td>
<td>8 inches</td>
<td>200 mm</td>
</tr>
<tr>
<td>STR 10</td>
<td>10 inches</td>
<td>250 mm</td>
</tr>
<tr>
<td>STR 12</td>
<td>12 inches</td>
<td>300 mm</td>
</tr>
<tr>
<td>STR 14</td>
<td>14 inches</td>
<td>350 mm</td>
</tr>
<tr>
<td>STR 16</td>
<td>16 inches</td>
<td>400 mm</td>
</tr>
</tbody>
</table>

- Easy retrofit to all Liquid Cyclones and most competitive cleaners
- Excellent for detrashing units such as the Continuous Light Detrasher

Meets the additional challenges of heat and high-viscosity black liquor found in pulp mill applications

Benefits

**Improved performance**
- Enables constant and continuous output of either reject material or defibered accept pulp
- Meets the additional challenges of heat and high-viscosity black liquor found in pulp mill applications

**Heavy-duty construction**
- Reliable service components with extended life operating cycles
- Auxiliary threaded mounting support points provided

**Maximized flow**
- Kadant designed rectangular relief platform expels debris with minimal blockage and wear

**Safety in mind**
- Valve locking pins, to lock open or closed, for safe lock out / tag out

**Low maintenance**
- Simplified valves means minimum maintenance, parts, and labor

**Cost effective**
- Knife gate and cylinder assembly designed for easy maintenance
- Reduces water and fiber loss during debris discharge
Run strong, run secure

- BSPT or NPT solenoids (24V or 120V available)
- Open-close limit switches (20-250 VAC, 20-300 VDC operating voltage)
- ANSI and DIN standard bolting connections
- Auxiliary threaded support points
- Low profile fittings

Stainless-steel body stabilized by tie rods

Locking pins function for locking gate open or closed

Rebuild kits available for all valve gates and air cylinders

Gate action

Wide square seat relief and channel cut-outs allow rejects to fall free or be easily pushed clear by the gate blade - assuring minimal wear, reduced blockage, and maximum flow

Debris path

Top quality, heavy-duty air cylinders matched to valve size

OSHA-compliant safety guards

Hardened 410 stainless-steel knife gate

Pre-loaded, hardened valve seat with gate scraper blade
Paired for perfection with STR reject chambers

Created specifically for our STR valves, these durable cast iron STR reject chambers are available in two sizes to match. The 8-8 reject chamber (with an 8” entrance and exit) and the expanded 8-10 reject chamber (with an 8” entrance and 10” exit) which provides an additional 50% reject capacity.

Both chambers feature two elutriation ports and a visual observation sight glass to optimized performance and reduced maintenance demands. Complete valve and reject chamber assemblies are also available that include square to round transition discharge pipes, shown below.

*STR 8-8 Reject Chamber*

*STR 8-10 Reject Chamber*

Kadant offers a full range of fiber processing equipment and services. Here you can see the STR valve fitted on our Continuous Lights Detrasher as well as on the Liquid Cyclone cleaner, which employs two valves and a reject chamber.

We understand what it takes to remain competitive, protect your investment, and extend the life of your stock preparation assets.

**Certified Parts and Service 24 Hour Hotline:**
1-800-448-5422