Strap in a MIT lab tore like paper during cylinder change
Replace **strap** if you find

- **Cut/Tear**—Any size
- **Fraying**
- **Excessive wear,** webbing is thinning
Strap with a small tear

- Check straps when you change cylinders
- Bend the strap, look at the edges, and run your hand along the entire strap
How to determine if a strap is safe

Pull the strap if the tension spring slips, replace the strap.

if the strap stays taut, strap is OK.
Inspect the tension spring for corrosion and loss of tension

Rusty handle/ spring is OK

Torn cotton blend belt no spring
## Comparison of Cylinder Strap Specifications

<table>
<thead>
<tr>
<th>Vendor Name and model #</th>
<th>Webbing Material and dimensions</th>
<th>Treated with UV inhibitor Fire retardant</th>
<th>Buckle material and corrosion resistance</th>
<th>Strap strength tested at ## psi</th>
<th>Date tag</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airgas</td>
<td>Polyester</td>
<td>Yes--UV Yes--Fire</td>
<td>galvanized steel tension buckle with stainless steel spring</td>
<td>1500</td>
<td>yes</td>
</tr>
<tr>
<td>USA safety GB100AFS</td>
<td>1.5&quot; polypropylene</td>
<td>Yes--UV No--Fire</td>
<td>Nickel plated steel spring buckle</td>
<td>1,138</td>
<td>no</td>
</tr>
<tr>
<td>Matheson 711 Strap 711-R Ratchet Strap</td>
<td>1.5&quot; polypropylene</td>
<td>?--UV ?--Fire</td>
<td>steel buckle</td>
<td>1,138</td>
<td>?</td>
</tr>
<tr>
<td>ThermoFisher 02-216-369 TROEMNER No.:971048</td>
<td>1&quot; nylon</td>
<td>?--UV ?--Fire</td>
<td></td>
<td>1500</td>
<td></td>
</tr>
</tbody>
</table>

VWR sells the USA, Matheson and ThermoFisher straps. Updated 11/18/14
Strap 2 cylinders together

Wall or bench
Brackets are
strong enough to
hold two cylinders