3-position cylinder with built-in intermediate stop mechanism

(1) Port A is pressurized at the initial position

(2) While ports A and C are pressurized, the cylinder extends to the intermediate position and stops.

(3) While ports A, B and C are pressurized, the cylinder extends to full stroke.

3-Position Cylinder

Series RZQ
### Applications

- Positioning repeatability accuracy for intermediate stops Max. ±0.02mm
  - Higher accuracy than conventional metal to metal stops.
- Intermediate stroke may be freely specified
  - Standard: Increments of 5mm
  - Option: Increments of 1mm can be made to order.
- Large diameter piston rod, resistant to side load
  - Piston rod with diameter 70% of the piston diameter is used.
- A variety of mounting options
  - Direct mount: Tapped type mounting same in dimensions as Series CQ2. Through-hole type is also available for strokes less than 75mm.
  - Fixture mounting: Foot type, Rod end flange type
  - Swivel mounting: Double clevis

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**Cylinder tube total length comparison**

<table>
<thead>
<tr>
<th>Bore (mm)</th>
<th>RZQA-300-150</th>
<th>CDQ2A-300D</th>
<th>Cylinder tube extension length RZQ-CDQ2</th>
<th>Dual-stroke cylinder CQ1BN-150+150/11</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>382.5</td>
<td>345.5</td>
<td>37</td>
<td>591</td>
</tr>
<tr>
<td>40</td>
<td>392</td>
<td>355</td>
<td>37</td>
<td>606</td>
</tr>
<tr>
<td>50</td>
<td>396.5</td>
<td>355.5</td>
<td>41</td>
<td>631</td>
</tr>
<tr>
<td>63</td>
<td>402</td>
<td>357.5</td>
<td>44.5</td>
<td>631</td>
</tr>
</tbody>
</table>

**Cylinder tube total length comparison**

- Full stroke=300mm (CG1BN:150+150=300mm)

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