EDP17CL

• Applicable to high frequency of opening and closing of valve
• Keeping graphite from sticking to valve stem
• API622 Certified

Features

• Flexible graphite packing suitable for quarter turn valves
• Impermeable structure
• Low-friction becase of special ID treatment
• Low-emission packing sets available with reduced height end rings

Design concept

Selection Chart

API620 : Forged Steel Valves
API603 : Corrosion-resistant Valves
Class 4500

API600 : Steel Gate Valves
API603 : Corrosion-resistant Valves
Class 4500

API608 : Metal Ball Valves
API609 : Butterfly Valves
Class 4500

• Temperature
• Pressure

-270˚C (–454˚F)
650˚C (1200˚F)
-270˚C (–454˚F)
455˚C (850˚F)
-270˚C (–454˚F)
455˚C (850˚F)
650˚C (1200˚F)

Follow the instructions, before installation and Operation, for your safety.

* Specifications and dimensions are subject to change without prior notice.
* The data on this catalogue are solely for your reference and are not to be construed as constituting a warranty.
* EDP® and PILLARFOIL® are registered trademarks of Nippon Pillar Packing Co., Ltd.
Pillar style EDP17CL (P/#6617-CL+P/#6710CL) one of EDP® Series Packing, is designed for quarter turn valves.

EDP17CL is a specially designed and formulated flexible graphite packing with very low-friction at the ID. Under the condition of high frequency of opening and closing of a quarter turn valve, this packing gains longer service life.

**Applications**

1. Refinery, Petro-chemical
2. Chemical
3. Cryogenic, e.t.c.

**Sealing Performance**

Internal evaluation test for ISO15848-1

- API 622 Certified
- API 589 Certified

**API Standard**

- API 622 Certified
- API 589 Certified

**Specifications**

### Temperature

-270 ~ +455°C
(-454 ~ +850°F)

On the condition the temperature of the packing remains below +350°C (+660°F)

### Pressure

- ASME class 4500
  
  (77.6MPaG, 776barG, 11250psiG)

- pH
  
  0 to 14
  (Except strong oxidizers)

### Minimum Tightening Stress (N/mm²)

<table>
<thead>
<tr>
<th>Class</th>
<th>150</th>
<th>300</th>
<th>600</th>
<th>900</th>
<th>1500</th>
<th>2500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stress</td>
<td>19.6</td>
<td>19.6</td>
<td>24.5</td>
<td>29.4</td>
<td>34.3</td>
<td>39.2</td>
</tr>
</tbody>
</table>

**NOTE**

When use under the gas application, a bigger tightening stress will be required if necessary. When test of the hydraulic pressure test, apply whichever bigger that the mentioned tightening stress, or the tightening stress which is at more than 1.3 times bigger than hydraulic pressure.

### Recommended Ring Quantity

<table>
<thead>
<tr>
<th>Pressure Class</th>
<th>Recommended Ring Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>5 rings</td>
</tr>
<tr>
<td>300</td>
<td>5 rings</td>
</tr>
<tr>
<td>600</td>
<td>6 rings</td>
</tr>
<tr>
<td>900</td>
<td>6 rings</td>
</tr>
<tr>
<td>1500</td>
<td>7 rings</td>
</tr>
<tr>
<td>2500</td>
<td>7 rings</td>
</tr>
<tr>
<td>4500</td>
<td>7 rings</td>
</tr>
</tbody>
</table>

**Structure & Features**

**Middle Ring P/#6617-CL**

Each middle ring has two lids in its top and bottom surface which prevent permeation leakage. And this packing at the ID to extend the service life when used on quarter turn valves.

**End Ring P/#6710CL**

(Compact type)

To ensure the seal-ability in the limited space, we developed shorter top & bottom rings in order to increase the number of seal rings.

**Temperature and Pressure Chart**

- Temperature Range: -270 ~ +455°C
- Pressure Range: 0 to 14 (Except strong oxidizers)

**Test Condition**

- Pillar Style No: EDP17CL (P/#6617-CL+P/#6710CL)
- Size: ø 32 x ø 48 x t8
- Fluid: Helium gas
- press. / temp.: 5.2 MPaG/RT, 4.2 MPaG/400°C
- Sliding Condition: Quarter turn
- Leakage measurement: Vacuum method
- Total number of cycle: 2500 Cycle