Manual Coupling Unit

Double acting, max. 400 bar working pressure

_advantages:
- Integrated safety elements
- Manifold mounting
- O-Ring and thread connection
- Disconnection while keeping the system pressure
- Easy coupling

Recommendations for use:
The coupling unit is equipped with various connectivity options.
It can be attached via O-ring connector on the bottom or at the back with G1 / 4 or O-ring.
All sealing and closure elements are included.

As pressure medium we recommend hydraulic oil acc. DIN 51524 (HL, HLP).

Workflow for tensioning of a device:
- Coupling-manually at port „A+B“
- Pressure generation at „A“ until all clamping elements are excited and the required system pressure is reached.
- Stop pressurizing
- Uncouple manually

Unclamping
- Coupling-manually at port „A+B“
- Pressure generation at „B“ until all clamping elements are retracted.

With pressurizing at „B“ the double check valve is released and the reflow in „A“-port is effected.
- Stop pressurizing.

Description:
The coupling unit is used when the fixture is manually separated from the pressure generator, for example in flexible manufacturing systems or by using only one pressure generator for a plurality of clamping devices.

This unit has to be operated exclusively double-acting.
The necessary security element are already built in.
This means: You must not provide accumulators, safety valves, pressure gauges coupling elements or more in your fixtures.

Technical Data

<table>
<thead>
<tr>
<th></th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Diameter</td>
<td>mm</td>
<td>5</td>
</tr>
<tr>
<td>Pretension of accumulator</td>
<td>bar</td>
<td>100</td>
</tr>
<tr>
<td>Pressure area</td>
<td>bar</td>
<td>100-400</td>
</tr>
<tr>
<td>Safety valve setting</td>
<td>bar</td>
<td>425</td>
</tr>
<tr>
<td>Coupling connection</td>
<td>Ermeto</td>
<td>G1/4</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>3,8</td>
</tr>
<tr>
<td>Buffer oil volume</td>
<td>ccm</td>
<td>9,75</td>
</tr>
<tr>
<td>Max. working temperature</td>
<td>°C</td>
<td>80</td>
</tr>
</tbody>
</table>

Part number: IMCU-002

Example for connection of a manual coupling unit on a fixture.

Contact
iNOSOL GmbH
Frankfurter Str. 18
35315 Homberg/Ohm (Germany)
web: www.inosol.solutions
email: info@inosol.solutions
tel.: (+49) 6633 / 368 95 25

*Subject to change without notice. Current issue under inosol.solutions © iNOSOL 35315 Homberg/Ohm - Germany
Manual Coupling Unit

Double acting, max. 400 bar working pressure

- Manometer up to 400 bar
- Hydraulic accumulator 13ccm with 100 bar tension
- Check valve
- Safety valve
- Quick coupler BG2 ISO 7241-1A G1/4

O-Ring-Connection max. Ø5

Special solutions on request!

Contact

INOSOL GmbH
Frankfurter Str. 18
35315 Homberg/Ohm (Germany)
web: www.inosol.solutions
e-mail: info@inosol.solutions
tel.: (+49) 6633 / 368 95 25

© INOSOL 35315 Homberg/Ohm - Germany

*Subject to change without notice. Current issue under inosol.solutions