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

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
- Opening of the ball valve
- Pressure generation until all clamping elements are excited and the required system pressure is reached.
- Closure of the ball valve
- Stop pressurizing
- Uncouple manually
- Releasing device for processing

If the ball valve is opened while pressurizing in uncoupled state, nothing happens, but then the pressure has to be broken down between the ball valve and quick coupling before the next coupling. This is done by loosening the quick coupling.

Function
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 single-acting.

The necessary security elements 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></td>
<td>Ermeto 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-001

Example for connection of a manual coupling unit on a fixture.
Manometer up to 600 bar
Hydraulic accumulator 13ccm with 100 bar pretension

Ball valve
Quick coupler Ermeto G1/4

Pressure relief valve as safety device
Rear connection w. G1/4 od. O-Ring

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