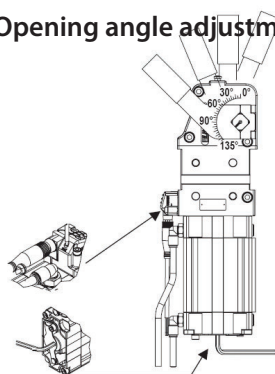


Pneumatic power clamps UNIVERSAL series

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The handling, positioning as well as the maintenance operations have to be carried out by observing all conditions which guarantee the security of the staff and only by authorized personnel. The residual risks regarding the sole maintenance phase consist in the squashing of the upper parts of the operator's body between the clamping arm and the shims mounted under the arm. As a preventive measure an appropriate signalling or an adequate security system placed near the dangerous areas and which have to be installed by the user will alert the operator.

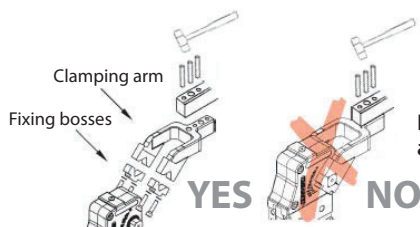
> Opening angle adjustment



1. Set the clamping arm in the open position
2. Insert the allen wrench until it has engaged with the screw
3. Keep the key pushed in its site and rotate it clockwise to increase the opening angle or counter clockwise to reduce the opening angle

> Clamping arm mounting

Tighten moderately the fixing screws; then tighten completely the corresponding pairs of screws, one on the right and the other on the left clamping arm.

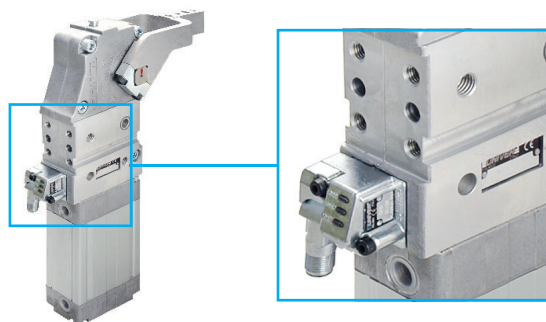


Do not insert the dowels in the clamping arm when it is assembled on the clamp

| Screw | Tightening torque (Nm) | |
|-------|------------------------|-----|
| | Min. | Max |
| M5 | 9 | 11 |
| M6 | 16 | 18 |
| M8 | 25 | 30 |
| M10 | 33 | 35 |

> Fixing instructions

The fixing of the unit to the equipment can be carried out by using the front, rear or side part of the housing of the clamp.



■ Fixing to the front or rear surface

- Insert two hardened and grinded pins into the special seats such as to locate the clamp to the tooling:

| Series | Ø dowels |
|---------------|----------|
| UB_32 | 6 |
| UB_40 | 6 |
| UB_50 e UB_63 | 8 |
| UB_80 | 8 |

- Fix it steadily by using the indicated screws, limiting the tightening torque:

| Series | Screws | Thread | Tightening torque |
|------------------|--------|--------|-------------------|
| UB_32 | M5 | 10 mm | 5 Nm |
| UB_40 | M6 | 12 mm | 8 Nm |
| UB50-63; UN50-63 | M8 | 12 mm | 15 Nm |
| UB80 | M10 | 15 mm | 25 Nm |
| IB_40 | M8 | 10 mm | 15 Nm |

■ Fixing to the side part of the housing of the clamp

- Insert two hardened and grinded pins into the special seats such as to locate the clamp to the tooling:

| Series | Ø dowels |
|-----------------|----------|
| UB40 | 6 |
| UB_50 und UB_63 | 10 |
| UB_80 | 12 |

- Fix it steadily by using the indicated screws, limiting the tightening torque:

| Series | Screws | Thread | Tightening torque |
|-----------------|--------|--------|-------------------|
| UB_32 | M5 | 10 mm | 5 Nm |
| UB_40 | M6 | 10 mm | 8 Nm |
| UB_50 und UB_63 | M10 | 12 mm | 25 Nm |
| UB_80 | M12 | 15 mm | 45 Nm |

> Instructions for the connection of the clamp to its energy source

Connect the sensor of the clamp to its electric supply unit.

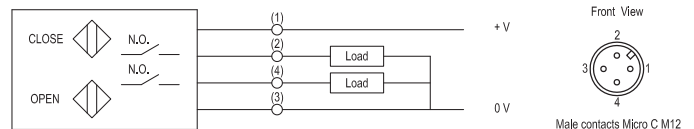
Then connect the pneumatic tube by means of suitable pneumatic fittings according to the specification below:

- Series UB_32, UB_40 -> G1/8" fittings
- Series UB_50, UB_63 e UB_80 G1/4" fittings

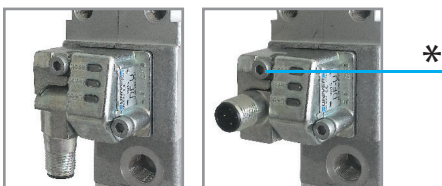
Operating pressure from 4 to 6 bar

> Electrical sensor

| ELECTRIC FEATURES | |
|-----------------------------|-------------|
| Supply voltage | 10 ÷ 30 Vdc |
| Supply current without load | < 20 mA |
| Rated operational current | Max 30 mA |
| Output logic | PNP N.O. |
| Led- supply | green |
| Led- close position- pin 2 | red |
| Led- open position- pin 4 | yellow |



■ How to orientate the connector



1. Unscrew the screw of the connector (*)
2. Open the cover
3. Rotate the connector
4. Close the cover and screw it

■ How to replace the sensor

1. It is not necessary to remove the air supply
2. Unscrew the sensor's screw
3. Insert a new sensor
4. Screw the sensor to its housing

> Type and frequency of controls and/or maintenance work

The unit has been designed and constructed in such a way that specific programmed maintenance is not necessary; anyway, a monthly external cleaning of the welding deposits with suitable, not aggressive and not corrosive detergents is recommended.