

Power pivot UNICLAMP series

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Before removing the protections from the unit, check if the packing is intact. Considering the weight of the unit, it is necessary to use a mechanical lifting system for transport and lifting operations.

For positioning it into the machine it is advisable to use a lifting system with suitable belts or ropes hooked to eyebolts to be screwed onto the lateral surfaces of the unit in such a way as to arrange that the connection to the suspension hook be placed vertically to the barycentre, trying thus to guarantee a stable balance of the load.

The handling and positioning operations have to be carried out by observing all conditions which guarantee the security of the staff.

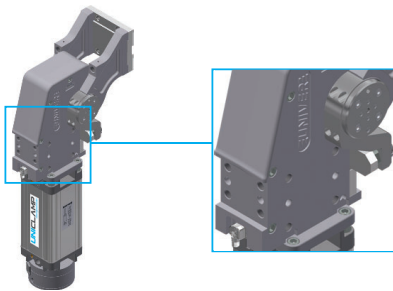
Warning

The staff must be opportunely informed about the risks deriving from the handling of the load.

Special attention has to be paid to the positioning and/or handling of units placed in elevated positions.

>Fixing instructions

The fixing of the device to the equipment can be carried out by using the front, rear or side part of the body.



■ Fixing to the front or rear surface

- Insert two hardened and grinded pins into the special seats in a way such as to locate the power pivot to the equipment and fix it steadily by using the indicated screws, limiting the tightening torque to the indications below:

UAG_Series	Dowel holes	Screw size	Thread setting	Tightening torque
080	Ø8 H7 x 12	M10	12 mm	25 Nm
120	Ø8 H7 x 12	M10	12 mm	25 Nm
170	Ø8 H7 x 12	M10	12 mm	25 Nm
075-150-300	Ø10 H7 x 12	M12	20 mm	36 Nm
210-350-600-605	Ø12 H7 x 20	M16	25 mm	85 Nm

■ Fixing to the side surface

- Insert two hardened and grinded pins into the special seats in a way such as to locate the power pivot to the equipment and fix it steadily by using the indicated screws, limiting the tightening torque to the indications below:

UAG_Series	Dowel holes	Screw size	Thread setting	Tightening torque
080	Ø12 H7 x 13	M12	15 mm	45 Nm
120	Ø12 H7 x 13	M12	15 mm	45 Nm
170	Ø12 H7 x 13	M12	15 mm	45 Nm
075-150-300	Ø10 H7 x 12	M12	20 mm	36 Nm
210-350-600-605	Ø12 H7 x 20	M16	25 mm	85 Nm

Warning

The fixing of the unit has to be carried out by using all holes on the installation surface.

>Instructions for the connection of the power pivot 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:

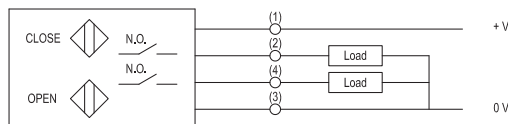
UAG_ 075 G 3/8"	UAG_ 170 G 1/2"	UAG_ 600 G 3/4"
UAG_ 080 G 3/8"	UAG_ 210 G 1/2"	UAG_ 605 G 3/4"
UAG_ 120 G 1/2"	UAG_ 300 G 3/4"	
UAG_ 155 G 1/2"	UAG_ 350 G 3/4"	

Operating pressure from 4 to 8 bar

>Electronic sensor

TECHNICAL CHARACTERISTICS

Supply voltage	10-30 V DC
Supply current without load	<25 mA
Rated operational current	30 mA
Voltage drop	<3,5 V DC
Output logic	PNP N.O.
Led - supply	green (power)
Led - close position	red (close)
Led - open position	yellow (open)
Protection class	IP 67
Weight	64 gr
No Reset	

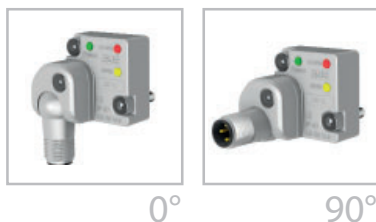
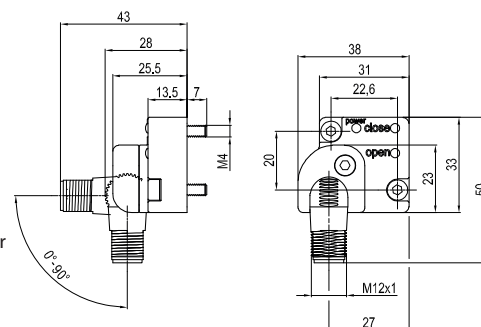


Front view



Male contacts Micro C M12

Dimensions



Change of the sensor

Unscrew the screws on the sensor base and replace the sensor

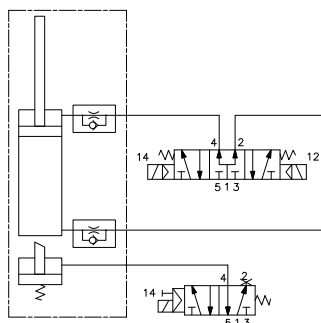
Connector orientation

- Unscrew the screw of the connector
- Rotate the connector (0° or 90°)
- Tighten the screw

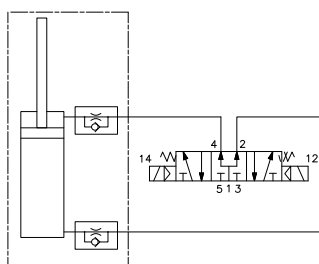
>How to operate the power pivot

Connect the unit as per the pneumatic scheme below

Version with brake



Version without brake



For the version with brake, follow the steps below:

>How to drive the table in open position

1. Make sure that the pivot unit is in closed position (sensor displaying "closed" signal). The 5/3 cylinder valve needs to be energized on side 12 while the 5/2 brake valve needs to be de-energized on side 14 (the brake is functioning).
2. Release the brake by energizing and keeping energized the 5/2 brake valve on side 14.
3. Once the brake sensor displays the "open" signal, make the 5/3 cylinder valve shift by energizing it on side 14. The table starts pivoting.
4. Keep both valves energized on side 14 until the unit sensor displays "open" signal.
5. Operate the brake by de-energizing the 5/2 brake valve on side 14. The 5/3 cylinder valve must be kept energized on side 14.

>How to drive the table in closed position

1. Make sure that the pivot unit is in open position (sensor displaying "open" signal). The 5/3 cylinder valve needs to be energized on side 14 while the 5/2 brake valve needs to be de-energized on side 14 (the brake is functioning).
2. Release the brake by energizing and keeping energized the 5/2 brake valve on side 14.
3. Once the brake sensor displays the "open" signal, make the 5/3 cylinder valve shift by energizing it on side 12. The table starts pivoting.
4. Keep the 5/3 cylinder valve energized on side 12 and the 5/2 brake valve energized on side 14 until the unit sensor displays "closed" signal.
5. Operate the brake by de-energizing the 5/2 brake valve on side 14. The 5/3 cylinder valve must be kept energized on side 12.

There is no need to install external quick exhaust valves as these are integrated in the pivot unit and require simple adjustment. Should the customer feel they are still needed, these valves can nonetheless be added to the pneumatic scheme.

Note: specific applications requiring brake dynamic functioning need UNIVER prior validation.

>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.