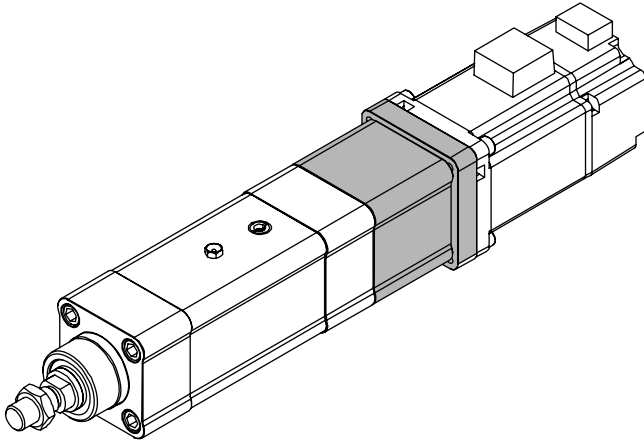


UNIMOTION

ASSEMBLY INSTRUCTIONS FOR VK S and IP65CR version



Assembly video

MOUNTING

i The maximum speed and the maximum torque of the motor must not exceed the limits of the electric cylinder - PNCE and coupling.

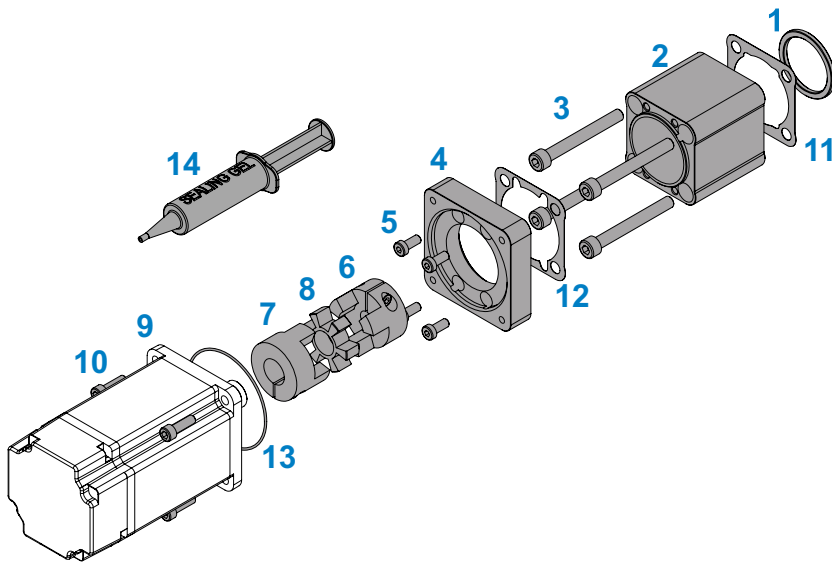
For the values of the speed and torque, please see our catalogue UNIMOTION Electric cylinder PNCE.

Recommended tightening torques for screws

8.8	M2	M2,5	M3	M4	M5	M6	M8	M10	M12
M_{max} [Nm]	0,4	0,7	1,3	2,8	5,6	9,6	23	45	74

Table 1: Recommended tightening torques for screws of strength class 8.8.

PARTS LIST



- 1 - Centring ring
 - 2 - Motor adapter housing
 - 3 - The motor adapter housing screw
 - 4 - Motor flange
 - 5 - The motor flange screw
 - 6 - Hub 1
 - 7 - Hub 2
 - 8 - Elastomer insert
 - 9 - Motor
 - 10 - The motor screw
 - 11 - Seal of the PNCE
 - 12 - The motor flange seal
 - 13 - The motor O ring seal
 - 14 - Sealing gel
- elastomer coupling
- seals for the IP65CR protection

Figure 1: Parts list.

STEP 1, 2 and 3

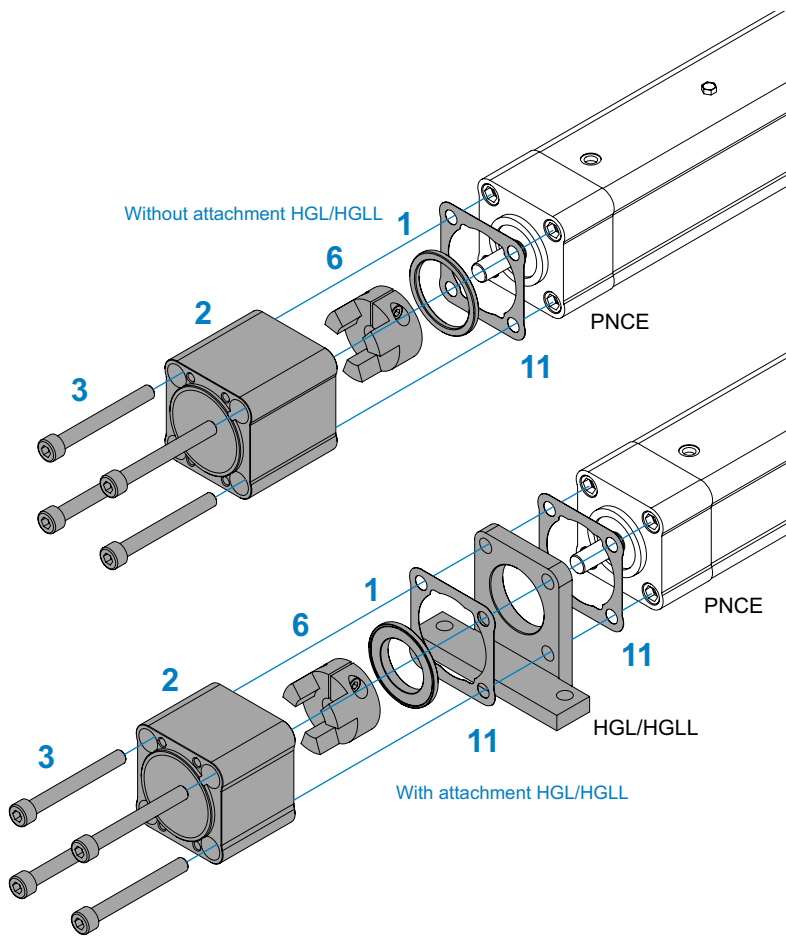


Figure 2: Step 1, 2 and 3.

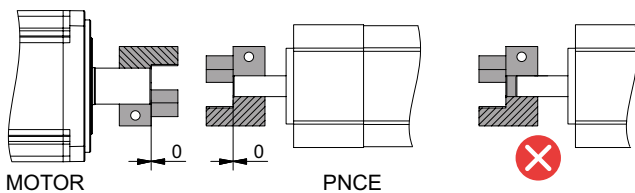


Figure 3: Coupling hubs and journals alignment.

STEP 1 (without attachment HGL/HGLL): In the case of the IP65CR protection the seal of the PNCE **11** must be placed on the drive cap of the electric cylinder - PNCE.
The centring ring **1** must be fitted on the drive cap of the electric cylinder - PNCE.

STEP 1 (with attachment HGL/HGLL): In the case of the IP65CR protection the seal of the PNCE **11** must be placed on the electric cylinder - PNCE drive cap.
The attachment HGL/HGLL must be fitted on the drive cap of the electric cylinder - PNCE.
In the case of IP65CR protection the seal of the PNCE **11** must be placed on the attachment HGL/HGLL.
The centring ring **1** must be fitted on the attachment HGL/HGLL.

i Some motor adapters don't have the centring ring **1**.

STEP 2: Place the coupling hub **1 6** on the drive journal of the PNCE.
Ensure that the coupling hub **1 6** and the drive journal of the PNCE are correctly aligned, see Figure 3.
Tighten the coupling hub screw **1 6** with the coupling tightening torque.

i For the coupling tightening torque please refer to our catalogue UNIMOTION Electric cylinder PNCE.

STEP 3 (without attachment HGL/HGLL): Mount the motor adapter housing **2** on the drive cap of the PNCE using the screws of the motor adapter housing **3**.

STEP 3 (with attachment HGL/HGLL): Mount the motor adapter housing **2** on the attachment HGL/HGLL using the screws of the motor adapter housing **3**.

i For the tightening torques for the screws please refer to Table 1.

STEP 4 and 5

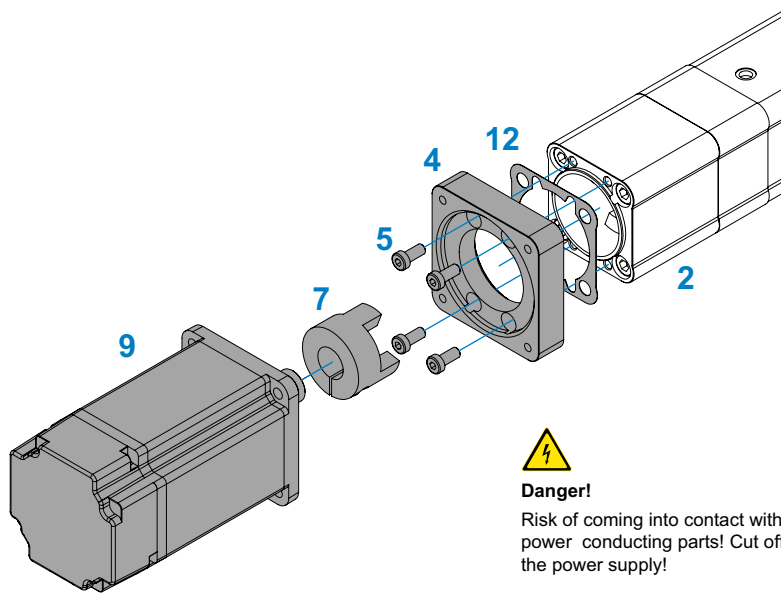


Figure 4: Step 4 and 5.

STEP 4: In the case of the IP65CR protection the seal of the motor flange **12** must be placed on the motor adapter housing **2**.
Mount the motor flange **4** onto the motor adapter housing **2** and tighten the screw of the motor flange **5**.

STEP 5: Place the coupling hub **2 7** on the motor journal.
Ensure that the coupling hub **2 7** and the motor journal are correctly aligned, see Figure 3.
Tighten the screw of the coupling hub **2 7** with the coupling tightening torque.

i For the coupling tightening torque please refer to our catalogue UNIMOTION Electric cylinder PNCE.

STEP 6 and 7

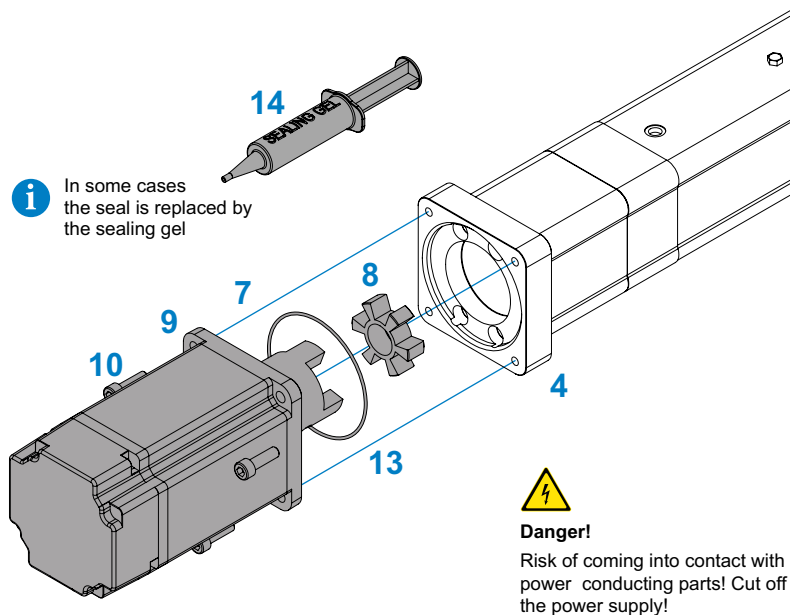


Figure 5: Step 6 and 7.

STEP 6: In the case of the IP65CR protection the O ring seal of the motor **13** must be fitted on the motor **9**. In some cases the motor O ring seal **13** is replaced by the sealing gel **14**. To use the sealing gel properly, please refer to the section **SEALING GEL** - Sealing the connection between motor and motor (adapter) flange.
Insert the elastomer insert **8** into the coupling hub **2 7**.

STEP 7: Mount the motor **9** on the motor (adapter) flange **4** with screw of the motor **10** and join the coupling hubs together at the same time.

i For the tightening torques for the screws please refer to Table 1.

i Before the initial start-up, check if everything is OK:

- electrical wiring
- mounted elements
- tightened screws.

STEP 8 - DISMOUNTING

STEP 8: To dismantle the motor adapter - VK, take precautions, such as turning off the power supply and prevent the piston rod from dropping, if it is in a vertical position.

To dismantle the VK properly, look at the mounting procedure.

SEALING GEL

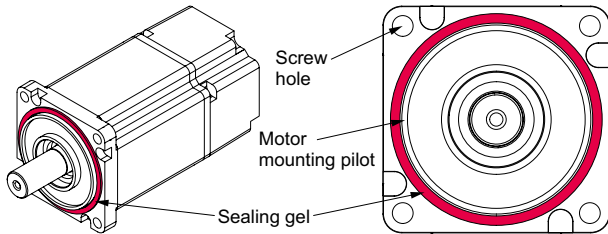


Figure 6: Sealing gel applied on the flange of the motor **9**.

Sealing the connection between motor and motor (adapter) flange:

- Apply the sealing gel **14** to the cleaned flange of the motor **9** as it is presented on the Figure 6 (the gel must be applied continuously in a closed loop around the motor mounting pilot on surface that comes into the direct contact with motor (adapter) flange **4** (make sure that the screw hole are outside the sealing gel); it should be noted that surface shape may vary depending on the motor manufacturer, model and size).
- Apply the sealing gel **14** to the thread on the screws of the motor **10**.
- Clean the motor (adapter) flange **4** and follow with STEP 6 in the section **STEP 6 and 7**. Note: once the contact between the flange of the motor **9** and the motor (adapter) flange **4** is ensured, the sealing gel is activated after 30 min.