

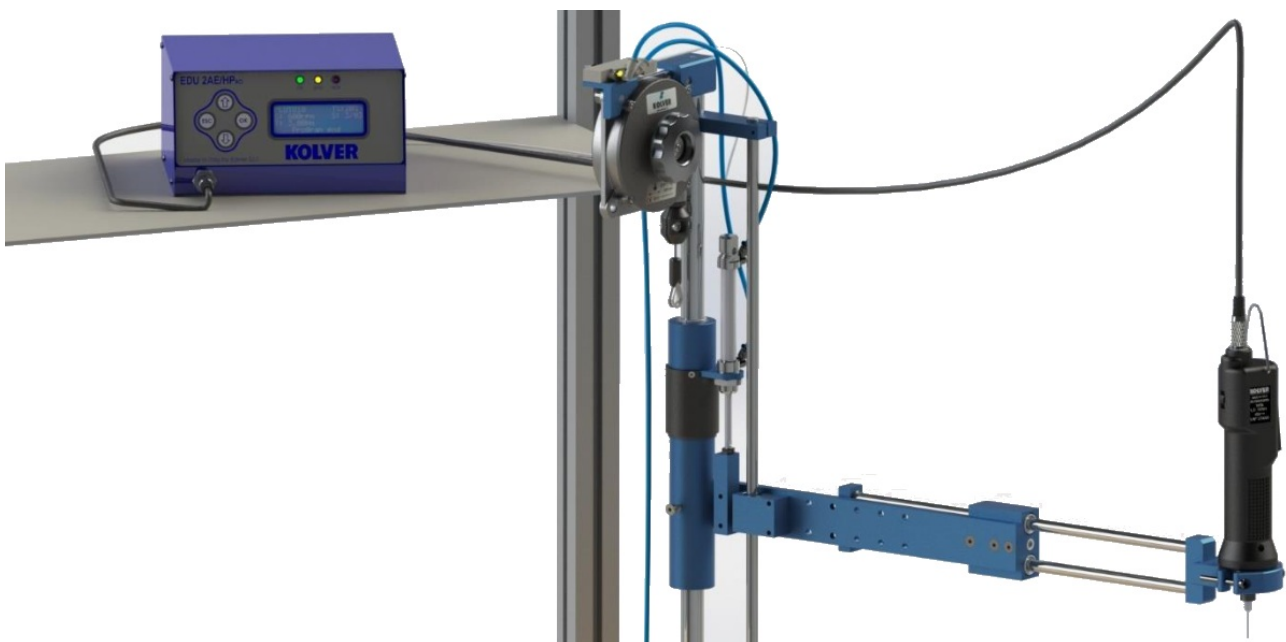


KOLVER LINAR2 Folding and Linear Positioning Arms with Autoadvance Kit Instruction Manual

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Folding and Linear Positioning Arms with Autoadvance Kit
Manual



IDENTIFICATION DATA OF THE MANUFACTURER

KOLVER S.r.l.
VIA M. CORNER, 19/21
36016 THIENE (VI) ITALIA
IDENTIFICATION DATA OF THE PRODUCT

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LINAR2 Folding and Linear Positioning Arms with Autoadvance Kit

| | | |
|--------|----------|---------------|
| MODEL: | LINAR2 | TLS1/LINAR2 |
| CODE: | 010682/A | 010682/TLS1/A |

Only Autoadvance kit to be installed on Korver code 020099

TECHNICAL DATA OF THE PRODUCT

ELECTROVALVE TENSION: 24V DC 0,35W

ARM DIMENSIONS: 684 x 191.13 x 722,5h mm

ARM WEIGHT: 5,7 Kg

AUTOADVANCE KIT WEIGHT 0,4 Kg

| Code | Model | Torque Max | Stroke mm | | Piston stroke mm | Min distance between screws at the max arm extension |
|---------------|----------------------------------|------------|-----------|-----|------------------|--|
| | | | Min | Max | | |
| 010682/A | LINAR2 with Autoadvance kit | 50 Nm | 184 | 665 | 0-50 | |
| 010682/TLS1/A | TLS1/LINAR2 with Autoadvance kit | 50 Nm | 184 | 665 | 0-50 | 6 mm |

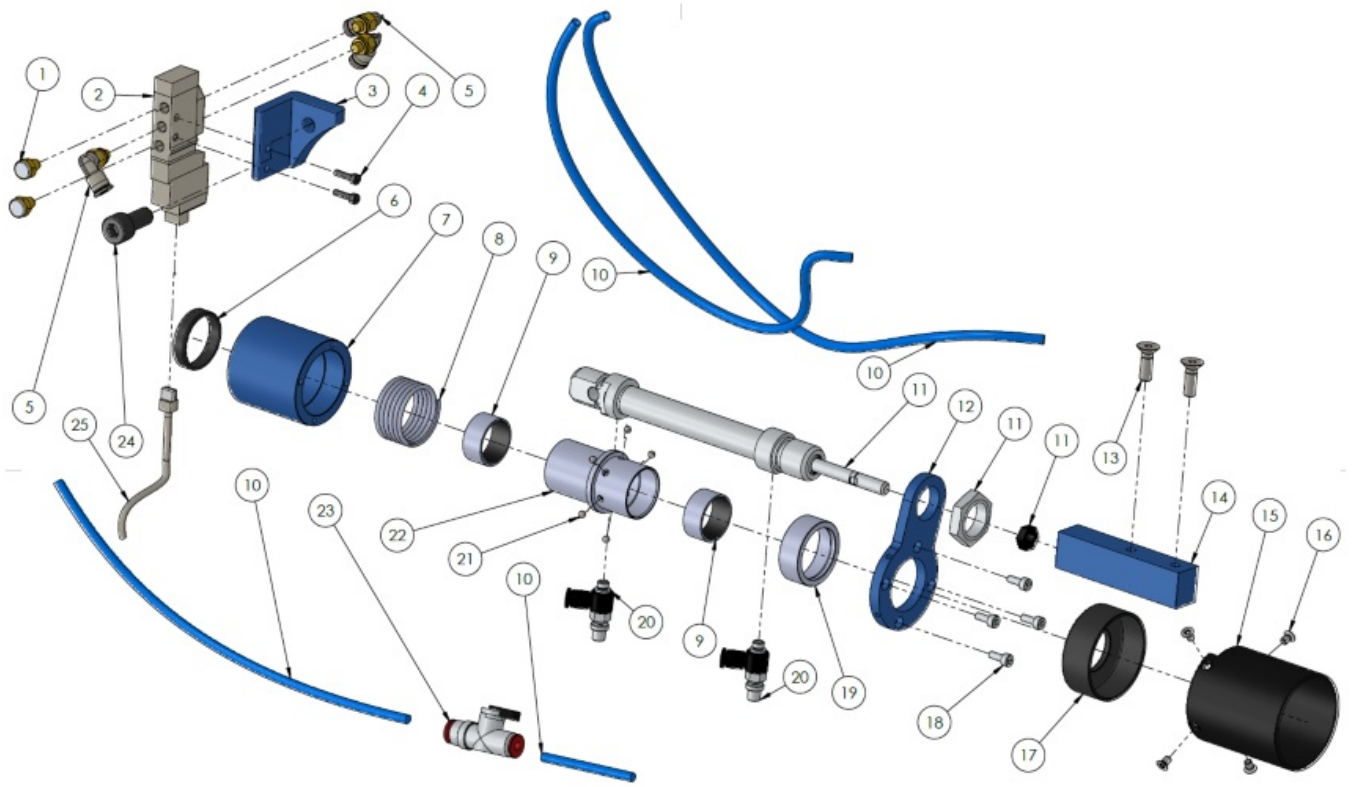


Autoadvance Kit

The Autoadvance arm kit is a particular device that mounted on a Kolver Linar2 or Linart arm helps the operator in the assembly of self-tapping screws or in case of strong axial thrust.

Through a pneumatic piston, the part of the arm that supports the screwdriver is pushed down to help the axial thrust on the screw. The pneumatic piston is piloted by a electrovalve which, when properly powered, will push the piston (see the section dedicated to electrical connections).

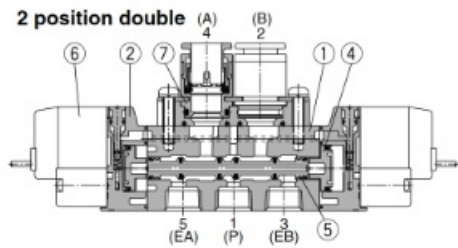
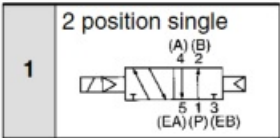
AUTOADVANCE KIT EXPLODED VIEW



SPARE PARTS

| Position | DESCRIPTION | Code | Qty |
|----------|---|-----------|-----|
| 1 | RACCORDO SILENZIATORE | 895094 | 2 |
| 2 | ELETTROVALVOLA | 895092 | 1 |
| 3 | SUPPORTO ELETTROVALVOLA | 895096 | 1 |
| 4 | VITE M3x10 | 231530 | 2 |
| 5 | RACCORDO ARIA 90° M5 TUBO 4MM | 250073 | 3 |
| 6 | ANELLO DI TEFLON AUTOAVANZANTE | 895084 | 1 |
| 7 | BOCCOLA DI GUIDA AUTOAVAZANTE | 895080 | 1 |
| 8 | MOLLA INTERNA AUTOAVANZANTE | 895088 | 1 |
| 9 | PERMAGLIDE AUTOAVANZANTE | 895091 | 2 |
| 10 | TUBO 4MM | 250075 | 1 |
| 11 | CILINDRO 12MM CORSA 50MM DOPPIO EFFETTO | 895090 | 1 |
| 12 | ANELLO FISSAGGIO PISTONE | 895083 | 1 |
| 13 | M5X14 BRUNITA | 895021 | 2 |
| 14 | SUPPORTO PISTONE | 895087 | 1 |
| 15 | CUFFIA TEFLON | 895085 | 1 |
| 16 | VITE M3X5 | 801003 | 4 |
| 17 | ANELLO DI APPOGGIO | 895086 | 1 |
| 18 | M3 X 8 | 240005/ZN | 4 |
| 19 | GUIDA SFERE AUTOAVANZANTE | 895082 | 1 |
| 20 | REGOLATORE UNIDIREZIONALE | 895093 | 2 |
| 21 | SFERA DIAM. 3mm | 200003 | 6 |
| 22 | BOCCOLA DI BLOCCAGGIO | 895081 | 1 |
| 23 | VALVOLA CHIUSURA ARIA | 895095 | 1 |
| 24 | VITE M8 X 16 | 895019 | 1 |
| 25 | CAVO ELETTROVALVOLA 2M | 895092/2M | 1 |

Electro valve Specifications



Component Parts

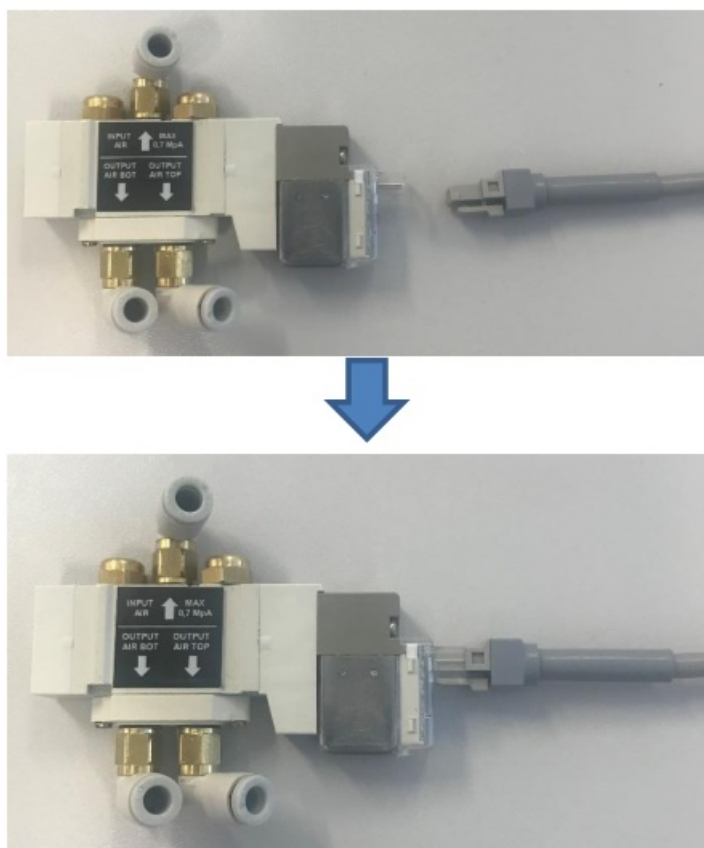
| No. | Description | Material |
|-----|----------------------|--|
| 1 | Body | Aluminum die-casted (SY3000: Zinc die-casted) |
| 2 | Adapter plate | Resin |
| 3 | End plate | Resin |
| 4 | Piston | Resin |
| 5 | Spool valve assembly | Aluminum, H-NBR |

| Valve model | Type of actuation | | Port size | | Flow characteristics | | | | | | Mass (g) | | |
|-----------------|-------------------|--------|------------------------|----------------|----------------------|------|------|----------------------|------|------|--------------|--------------------------|----------------------|
| | | | 1, 5, 3 (P, EA, EB) | 4, 2 (A, B) | 1→4/2 (P→A/B) | | | 4/2→5/3 (A/B→EA/EB) | | | Gro- mmet | L/M plug connector | W M8 connector |
| | | | | | C (kdm³/ (s·bar)) | b | Cv | C (kdm³/ (s·bar)) | b | Cv | | | |
| SY3□20 -□-M5 | 2 position | Single | M5 x 0.8 | M5 x 0.8 | 0.61 | 0.44 | 0.16 | 0.64 | 0.45 | 0.18 | 51 | 53 | 57 |
| | | Double | | | | | | | | | 68 | 74 | 82 |

| | |
|--------------------------------------|---------------------|
| Fluid | Air |
| Operating pressure | 0,15 – 0,7 MPa |
| Ambient and fluid temperature | -10 – 50 °C |
| Max operation frequency | 10 Hz |
| Pilot exhaust method | Common exhaust type |
| Lubrification | Not required |
| Impact/vibration (m/sc) | 150/30 |
| Enclosure | Dust proof |
| Terminal | IP65 |
| Coil rated voltage | 24 V \pm 10% |
| Power consumption | 0,35 W |
| Response time | Max 13 ms |

Electrical connection

Connect the supplied cable (code 895092/2M) to the electro valve through the appropriate connector.



Cable between the control unit and the electro valve

Cable 2 mt to connect the per concessioner elettrovalvola cod. 895092/2M.



Sample with CN1
connector on bank
panel of the unit

The 2 mt cable for connection to the electro valve (code 895092/2M), it is supplied with a molded electro valve connector on one side and 2 wired pin on the opposite side. The red cable must be connected to the 24V “lever / W” or “Motor ON” signal present in the Output connectors of the Kolver units; while the black one will be connected to the common 0VDC.

NB: some unit models have specific output signals for use with a selfadvancing arm called “Lever / W”.

I/O Kolver unit connection to advance arm

| Model | Code | Electro valve cable +24V Red wire | Electro valve cable 0V Bl ack wire |
|----------------|----------------|--------------------------------------|---------------------------------------|
| EDU 1FR/SG/W | 010010/FR/SG/W | Pin 6 | Pin 1 |
| EDU 1BL/SG/W | 003000/SG/W | Pin 7 | Pin 9 |
| EDU 2AE Series | | Pin 4 CN1 | Pin 2 CN1 |
| KDU Series | | Pin 42 CN3 | Pin 44 CN3 |

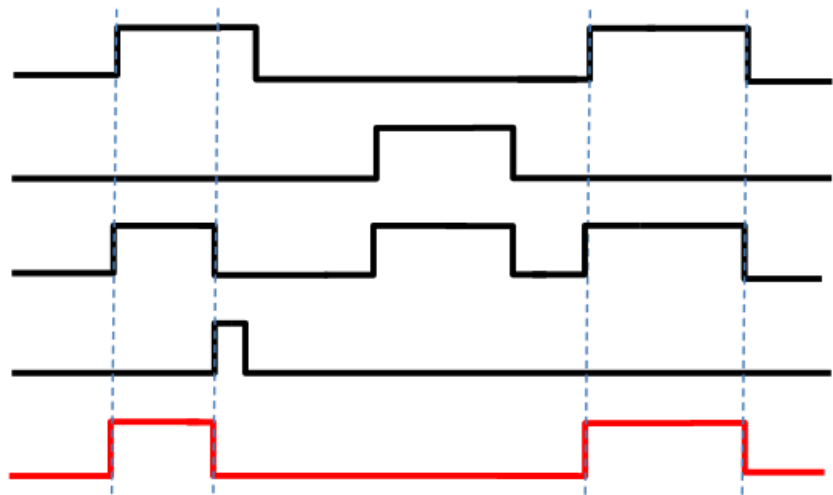
LEVER START

LEVER REVERSE

MOTOR START

TORQUE SIGNAL

PILOT VALVE



Cylinder

- Compliant to norm SO 6432
- High reliability and long life
- Magnetic or non magnetic & Mk acting version
- Nonmagnetic single acting version
- Special versions on request



Camilla: INOX

Stele: INOX

Testate: alluminio anodization

Guarnizioni: NBR o VITON

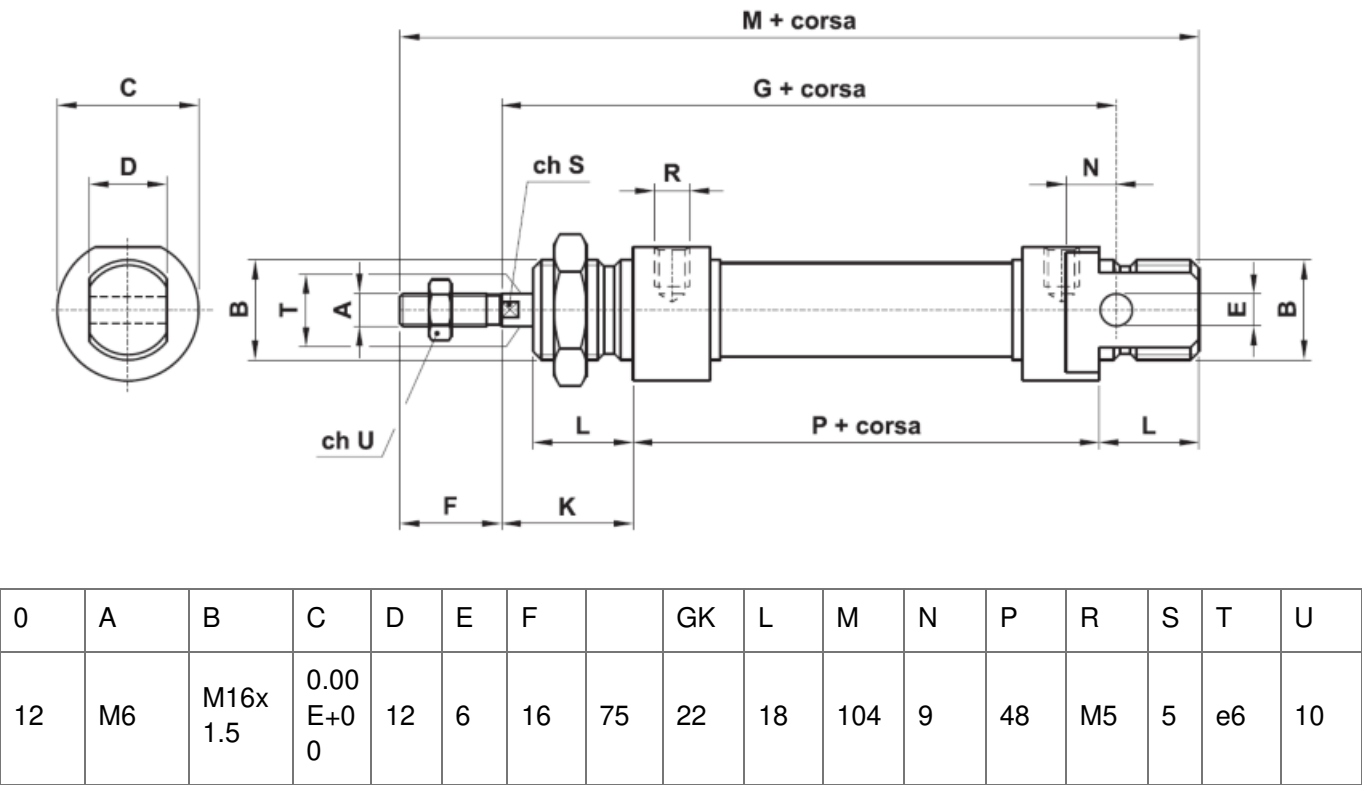
Magnate: plastroferrite Mon adatto per temperature oltre +60°C)

Return spring tones for single acting (*den bore return spew bra

| | |
|--------------------|---|
| Wxkhg peesave | max 1 MPa |
| Temperature lave | max 40°C |
| Afeehaeal emOoning | Standard on the wiz* range |
| Pneenatie =An* | Ave//tie lx bole 20 and 25 |
| fluff | 50p ldwal, Levitated a non it tested at |

Force

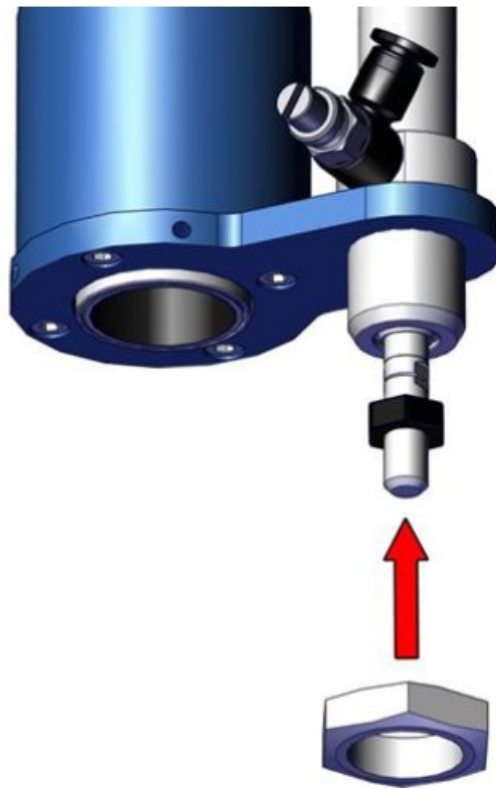
1 deca Newton [daN] = 10 N
 1 deca Newton [daN] = 1,02 Kg



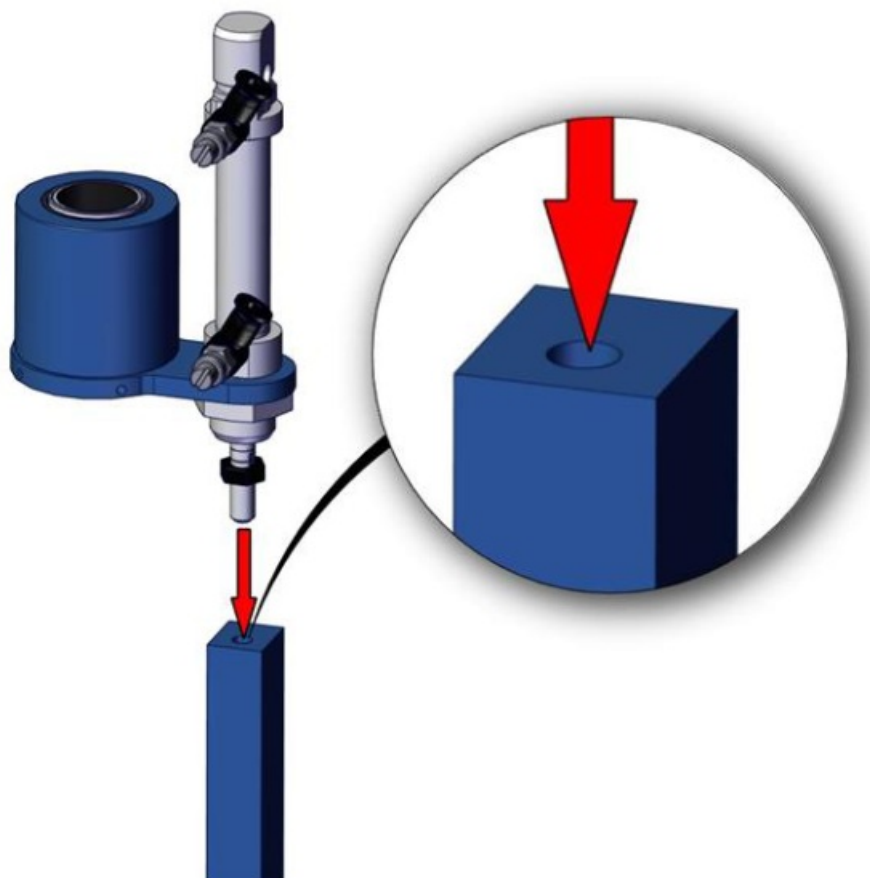
Mounting
 Insert the pneumatic cylinder into the hole of the fixing ring.



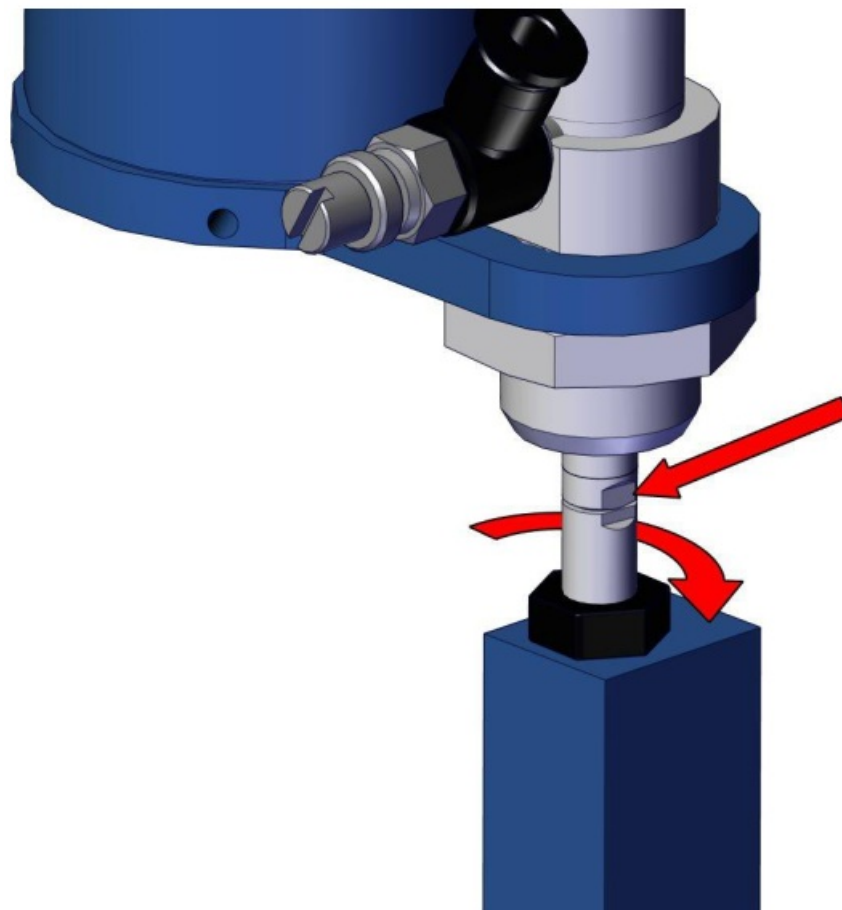
Secure the cylinder with the 22mm nut, keep the pneumatic fittings aligned laterally as shown in the figure.



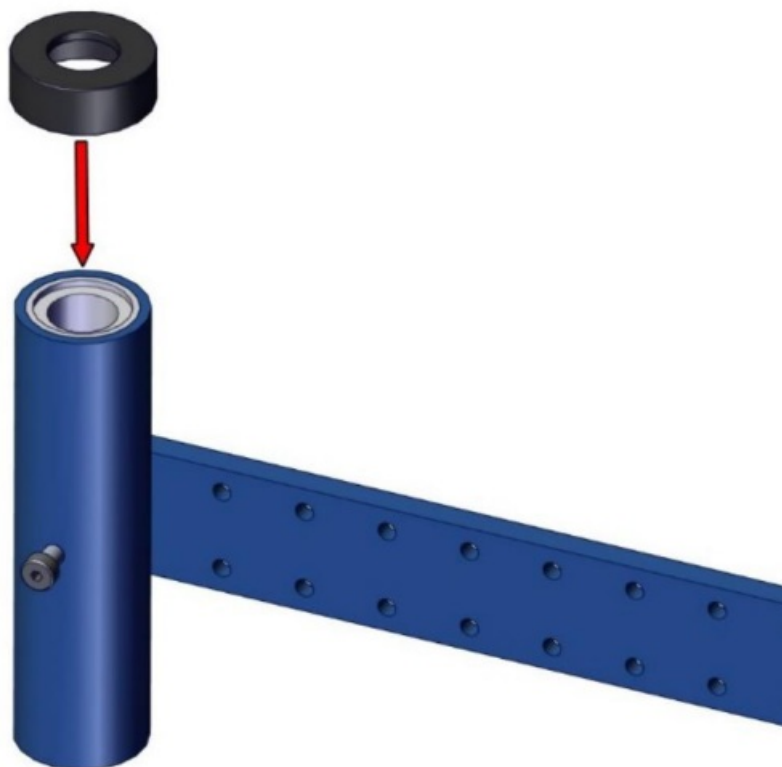
Connect the cylinder to the push bracket.



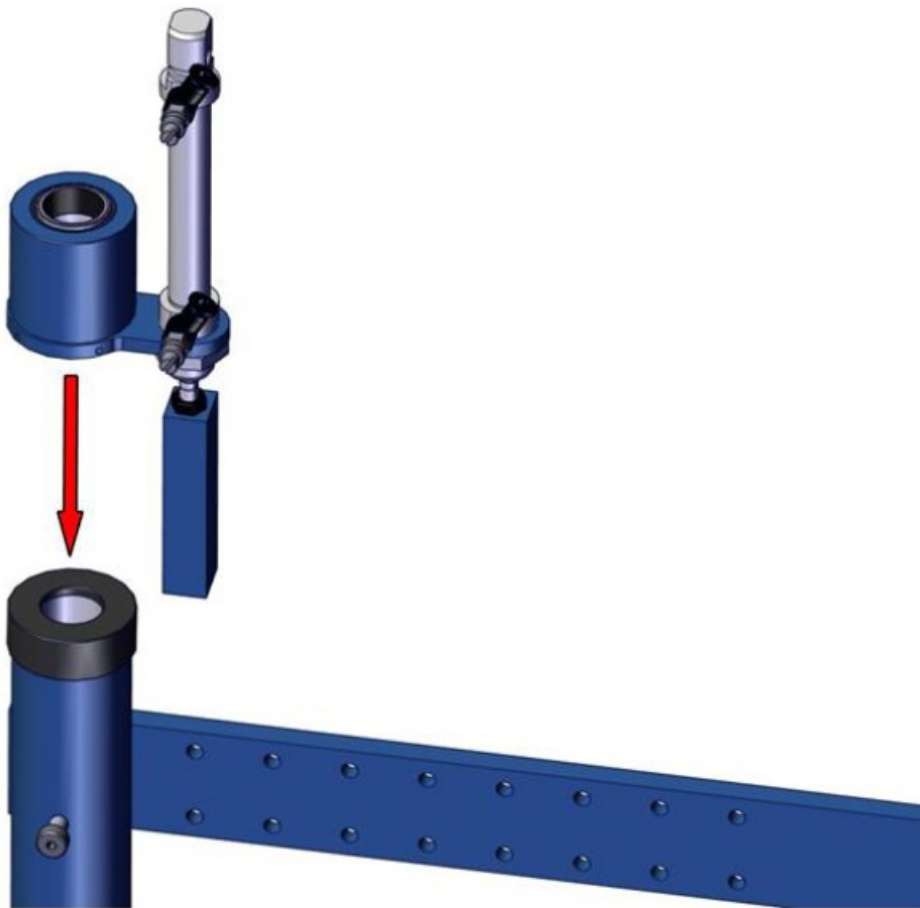
Fix the stem to the bracket up to the stop using the 5mm wrench. Secure the lock nut with a 10mm wrench.



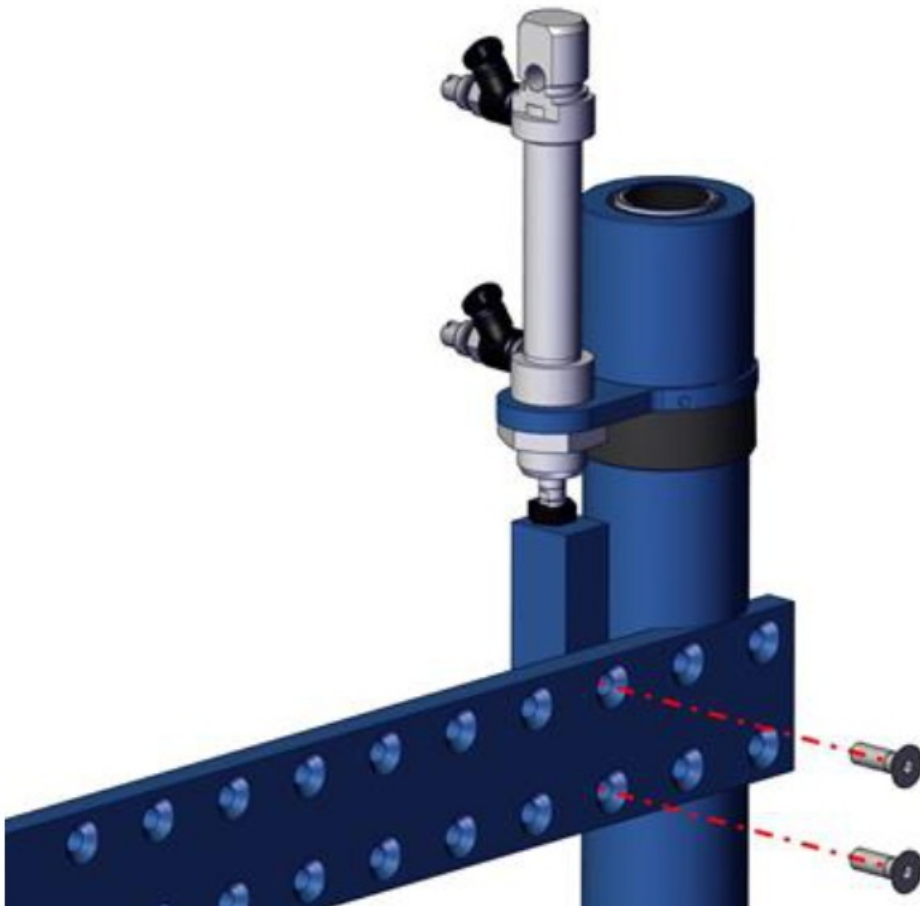
Place the bushing on the vertical bearing support.



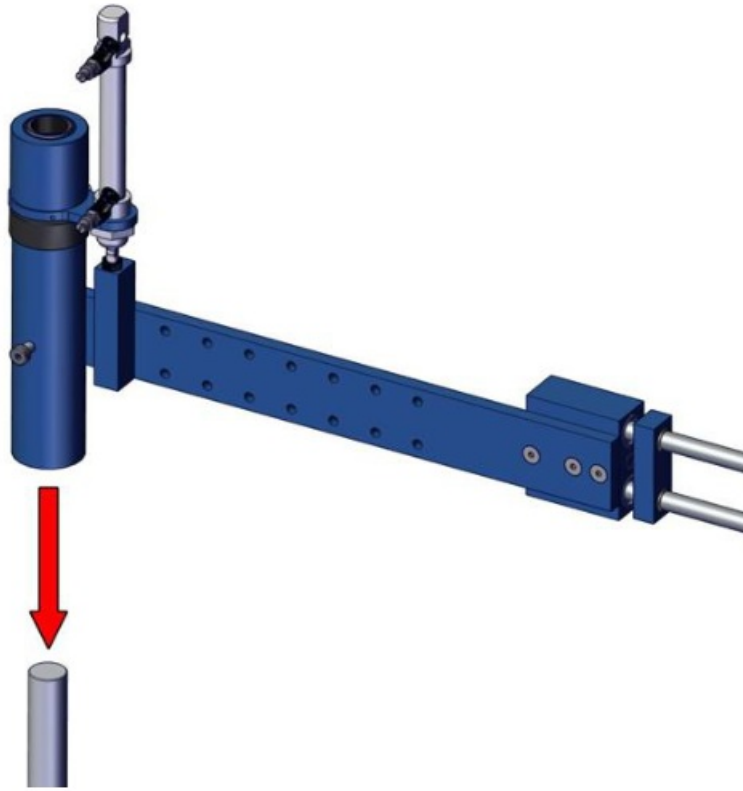
Join the assembled kit to the arm holder plate.



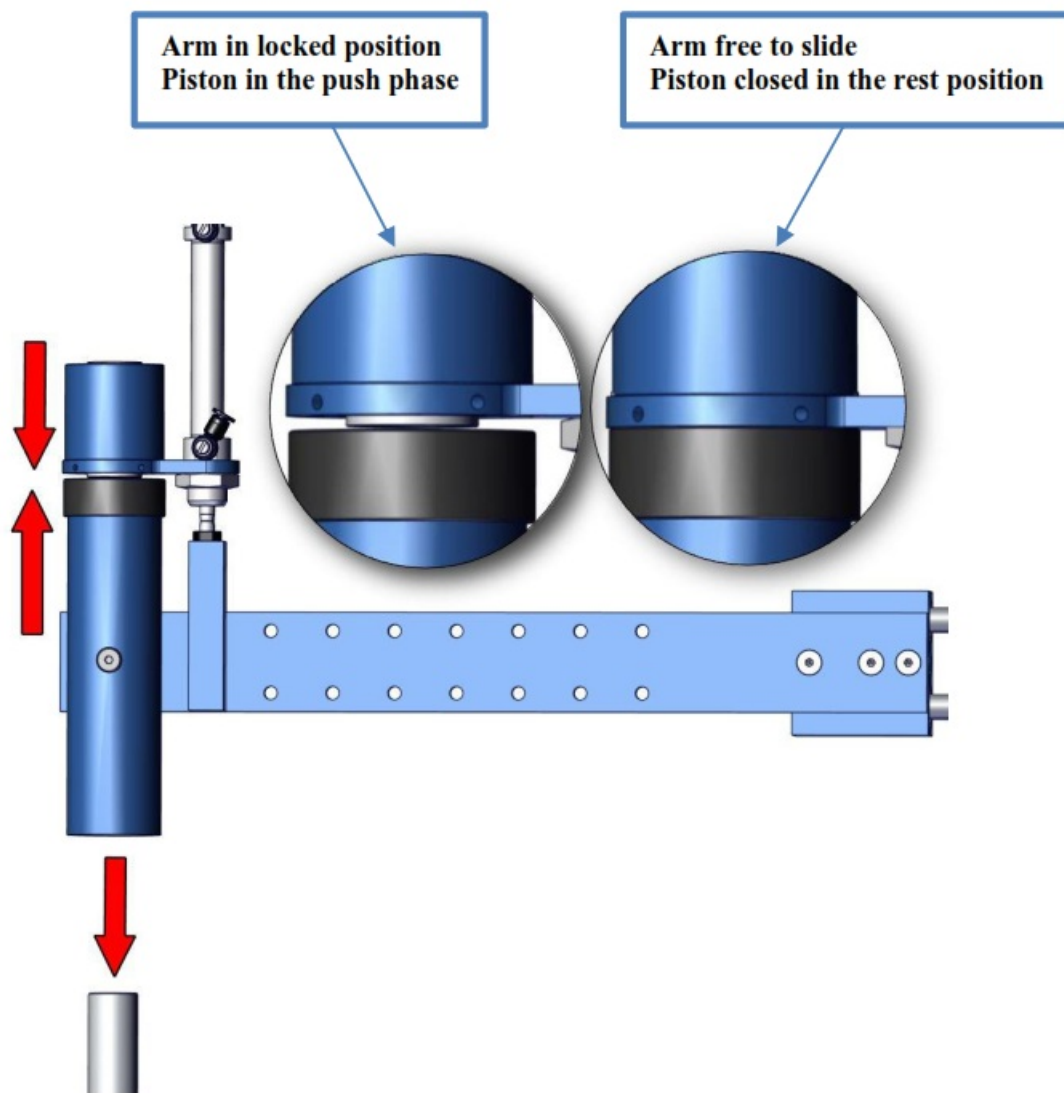
Align in the cylinder holder the fixing holes to the holes in the arm holder plate. Then fasten the screws.



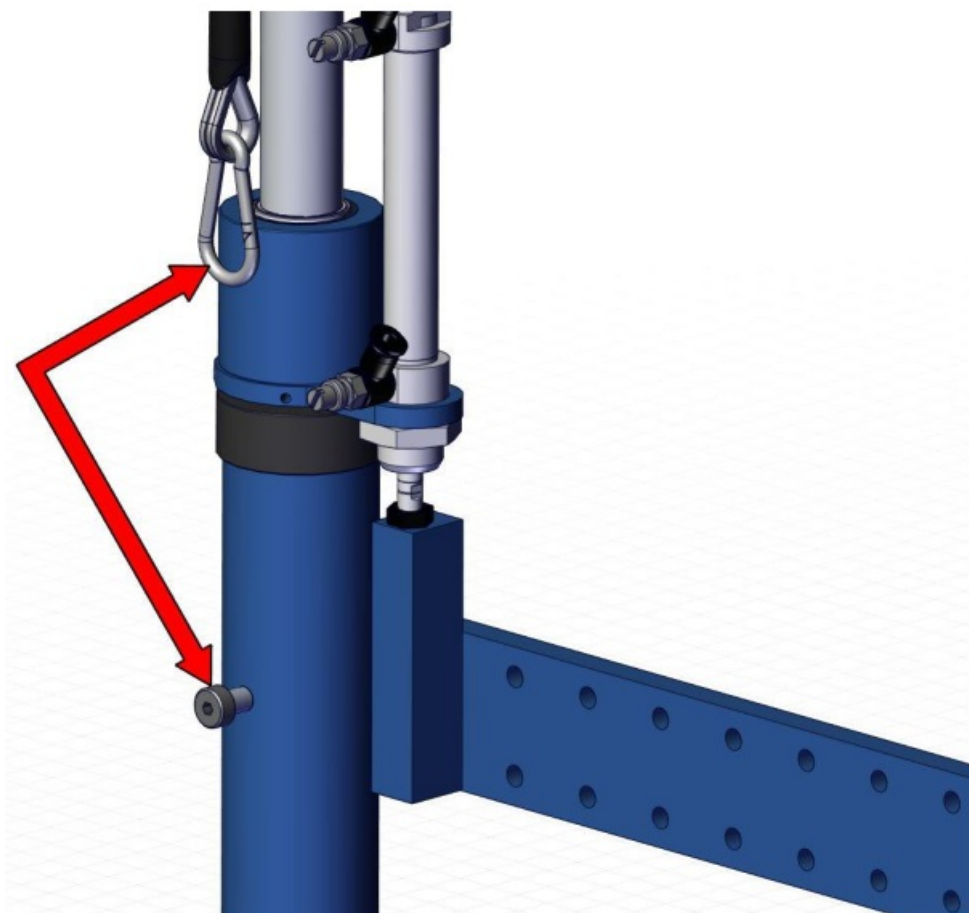
Insert the kit mounted on the sliding rod.



NB. In order to move manually the self-advancing block in the rod it is necessary to keep it pressed on the vertical bearing support in order to simulate the closing of the piston. If no pressure is exerted, the selfadvancing block does not allow the arm to slide upwards. When the arm is in the rest position, the piston must remain closed so that the two parts arekept in support.

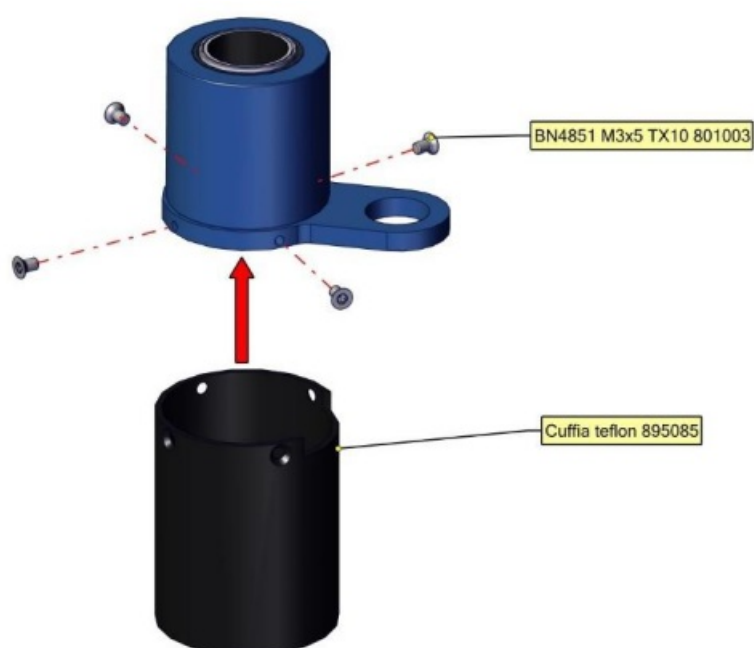


Hook the balancer cable to the lifting screw.



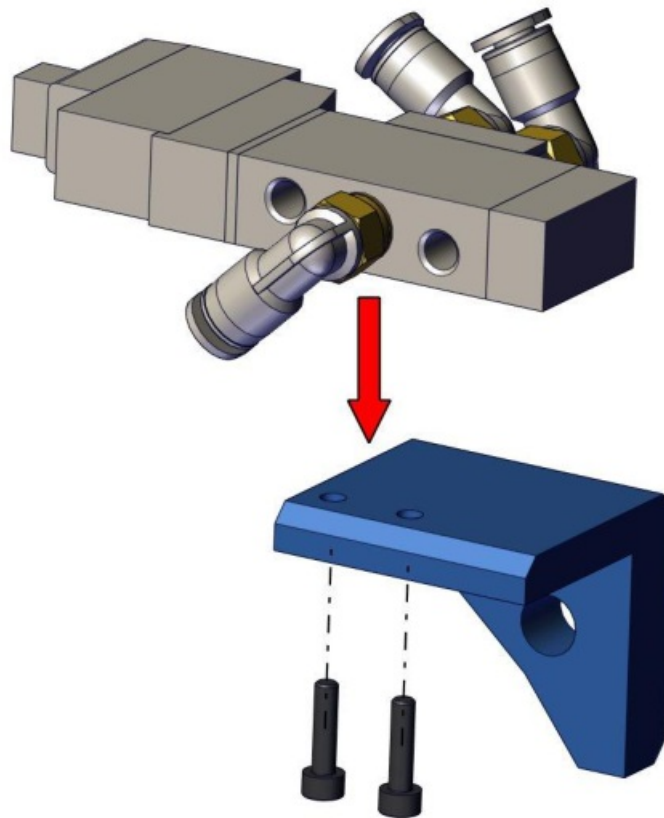
Protective hood assembly

The protection cap allows it to be mounted / dismantled on the selfadvancing block at the end of the entire assembly.

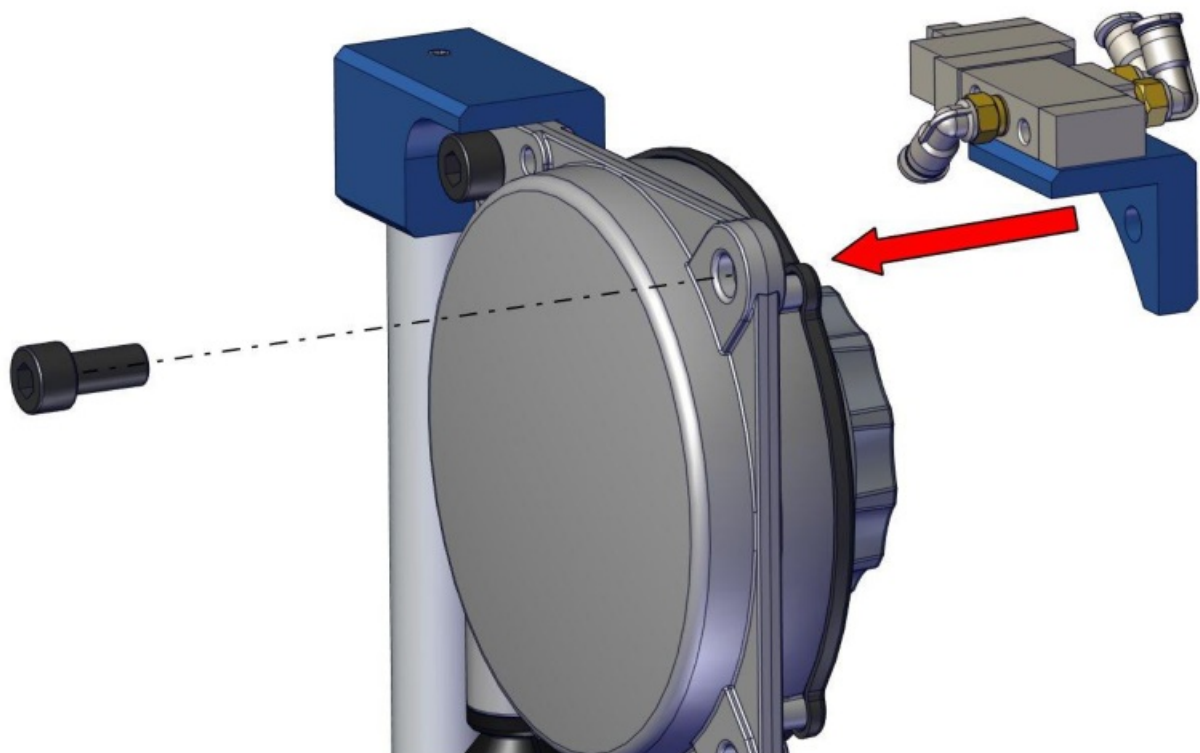


Pneumatic connections

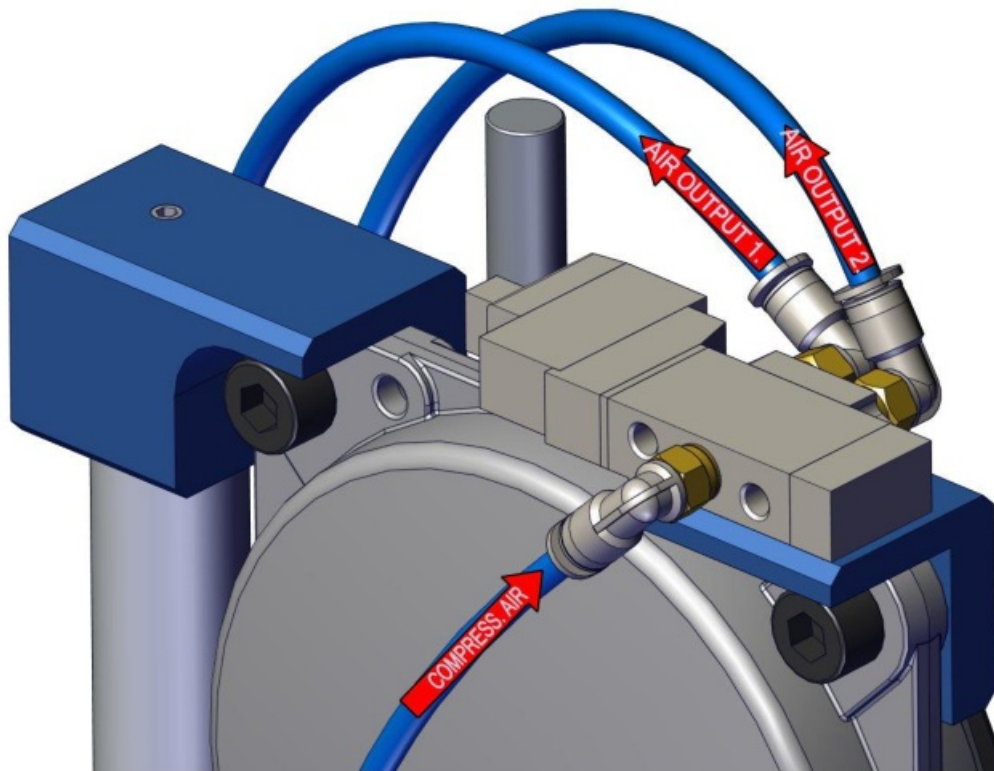
Electro valve mounting to the support



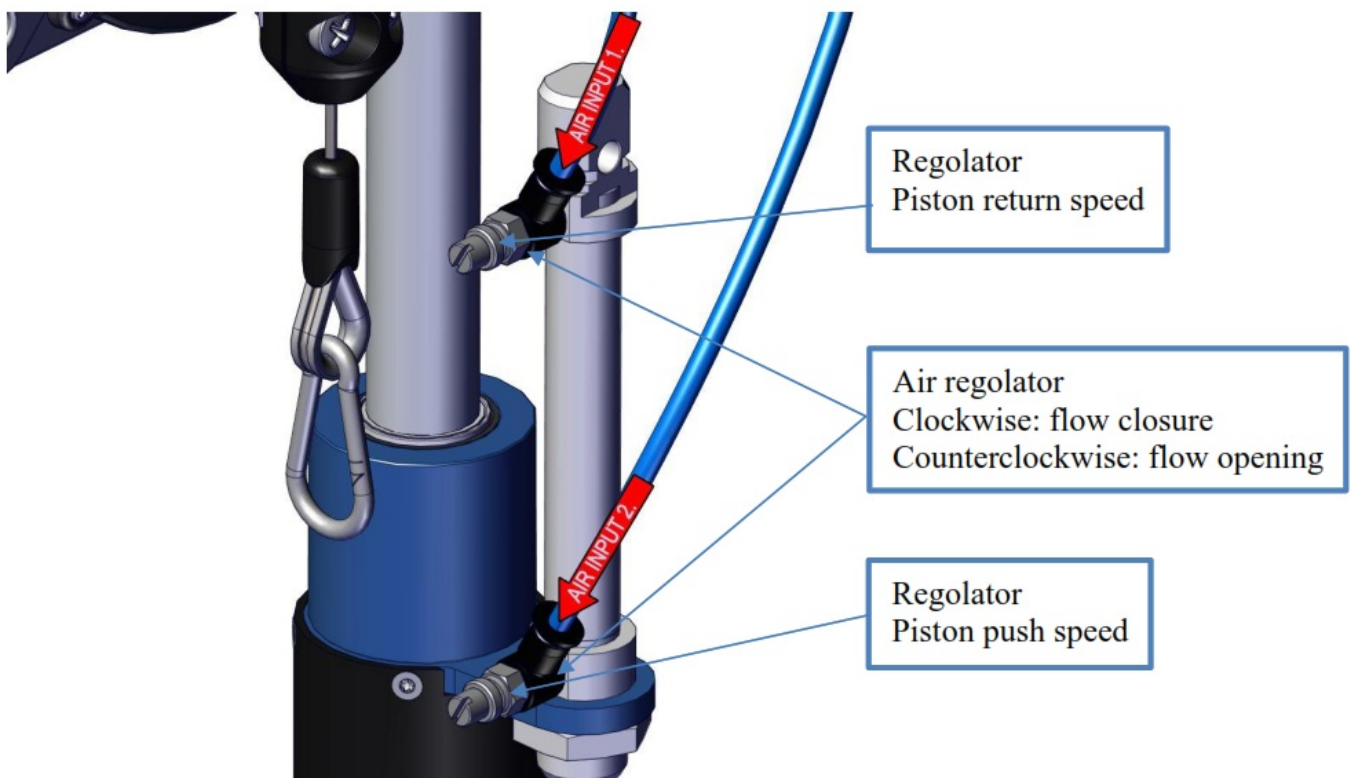
Electro valve mounting to the balancer



Connection on the electro valve



Connection on the piston



GUARANTEE

1. This KOLVER product is guaranteed against defective workmanship or materials, for a maximum period of 12 months following the date of purchase from KOLVER, provided that its usage is limited to single shift operation throughout that period. If the usage rate exceeds of single shift operation, the guarantee period shall be reduced on a prorata basis.
2. If, during the guarantee period, the product appears to be defective in workmanship or materials, it should be


returned to KOLVER or its distributors, transport prepaid, together with a short description of the alleged defect. KOLVER shall, at its sole discretion, arrange to repair or replace free of charge such items.

3. This guarantee does not cover repair or replacement required as a consequence of products which have been abused, misused or modified, or which have been repaired using not original KOLVER spare parts or by not authorized service personnel.
4. KOLVER accepts no claim for labor or other expenditure made upon defective products.
5. Any direct, incidental or consequential damages whatsoever arising from any defect are expressly excluded.
6. This guarantee replaces all other guarantees, or conditions, expressed or implied, regarding the quality, the marketability or the fitness for any particular purpose.
7. No one, whether an agent, servant or employee of KOLVER, is authorized to add to or modify the terms of this limited guarantee in any way. However it's possible to extend the warranty with an extra cost. Further information at kolver@kolver.it.



Vers. 210422

Documents / Resources

| | |
|---|--|
|  | <p>KOLVER LINAR2 Folding and Linear Positioning Arms with Autoadvance Kit [pdf] Instruction Manual</p> <p>LINAR2 Folding and Linear Positioning Arms with Autoadvance Kit, LINAR2, Folding and Linear Positioning Arms with Autoadvance Kit, Positioning Arms with Autoadvance Kit, Arms with Autoadvance Kit, Autoadvance Kit</p> |
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