

INSTRUCTION MANUAL FOR ASSEMBLING/DISASSEMBLING BLUE SERIES PUMPS

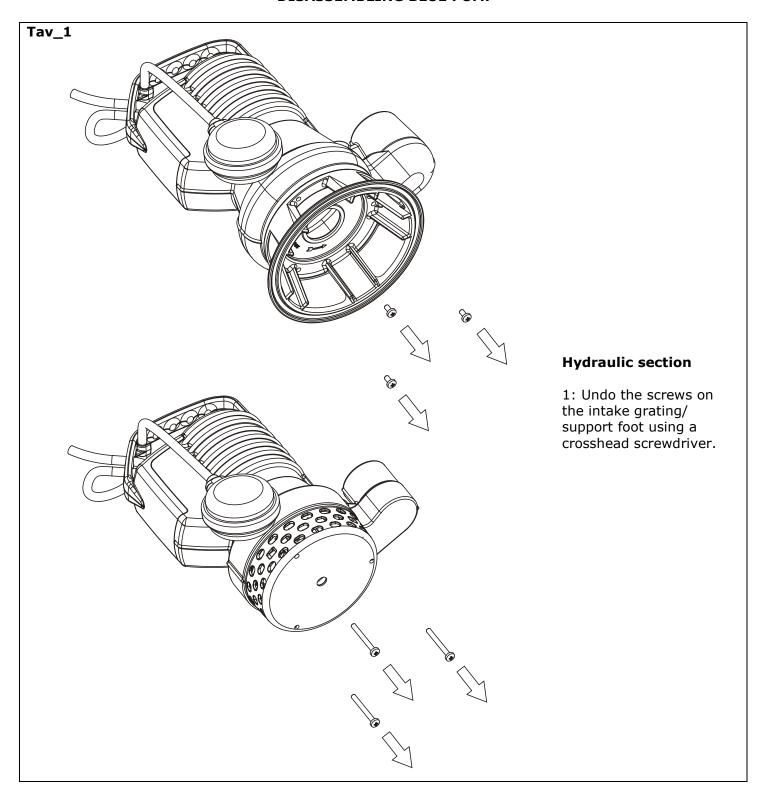
TABLE OF CONTENT

Disassembling Blue pump

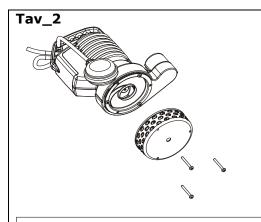
Hydraulic sectionOpening the oil sump	3
Removing the mechanical seals	۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰
Removing ball bearings	
Removing handle	
Removing Air Valve	
Removing the stator	
Assembling Blue pump	
Preparing the driving shaft	18
Preparing the driving shaft Fixed section of the mechanical seals	18
Fixed section of the mechanical seals	18
Fixed section of the mechanical seals	18 19
Fixed section of the mechanical seals Fitting the stator Fitting the driving shaft	
Fixed section of the mechanical seals	
Fixed section of the mechanical seals	
Fixed section of the mechanical seals	
Fixed section of the mechanical seals Fitting the stator Fitting the driving shaft Mobile section of the mechanical seals Closing the oil sump Filling the oil sump	

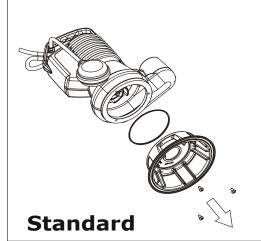


DISASSEMBLING BLUE PUMP



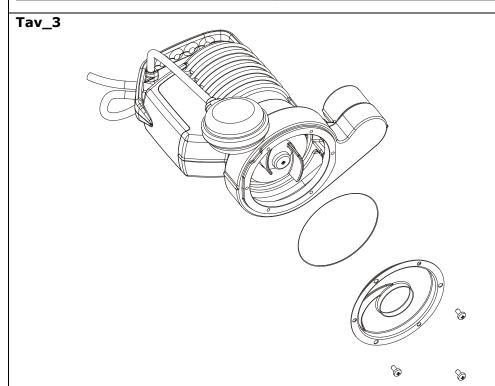






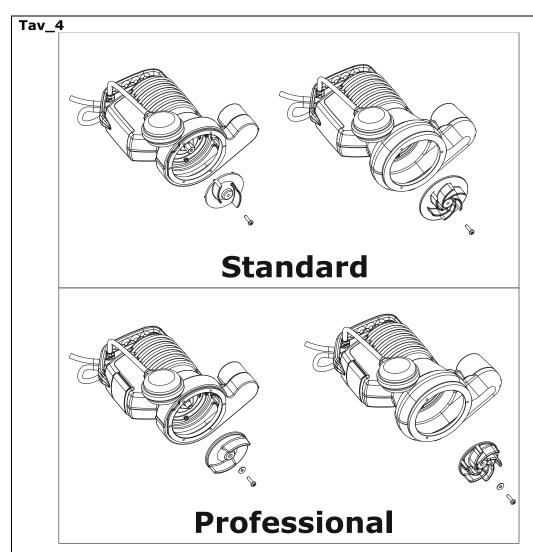


2: Take off the intake grating/ support foot (and Oring/inox flange for DG BluePro).

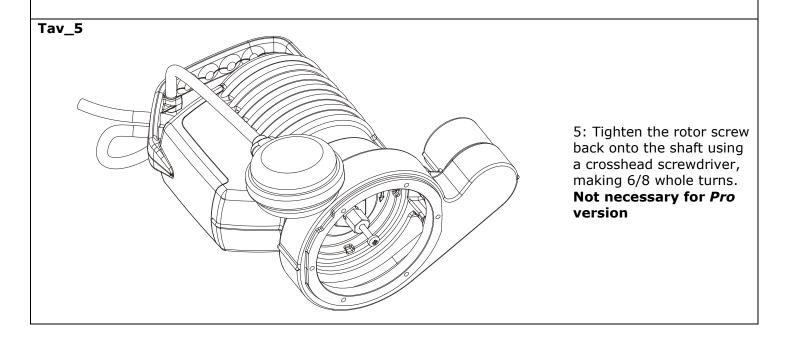


3: Undo the screws on the intake flange using a crosshead screwdriver and remove intake flange and Oring.

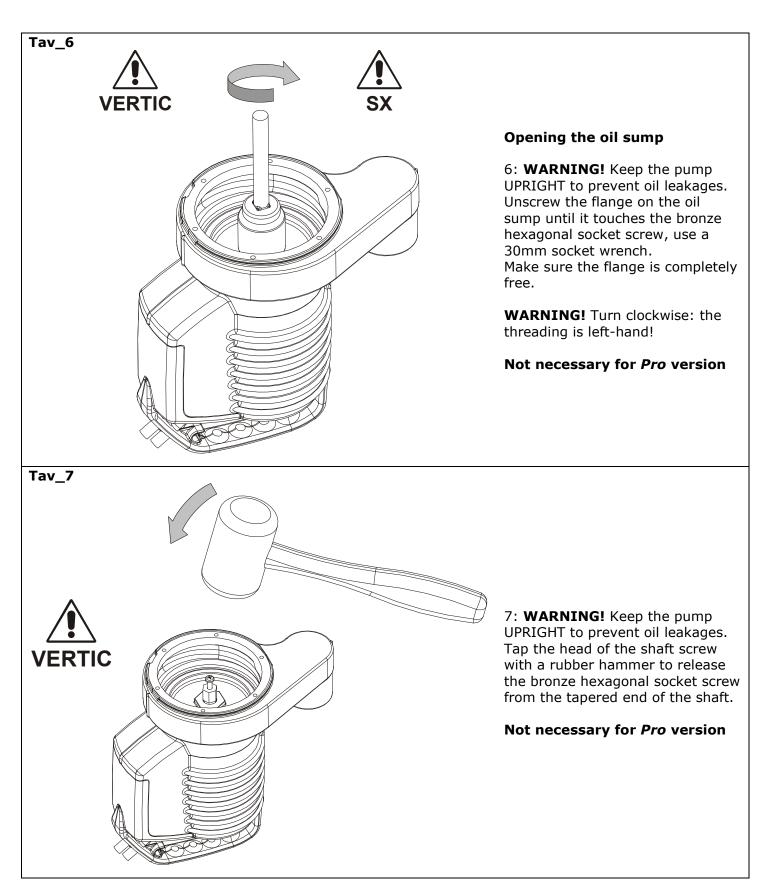




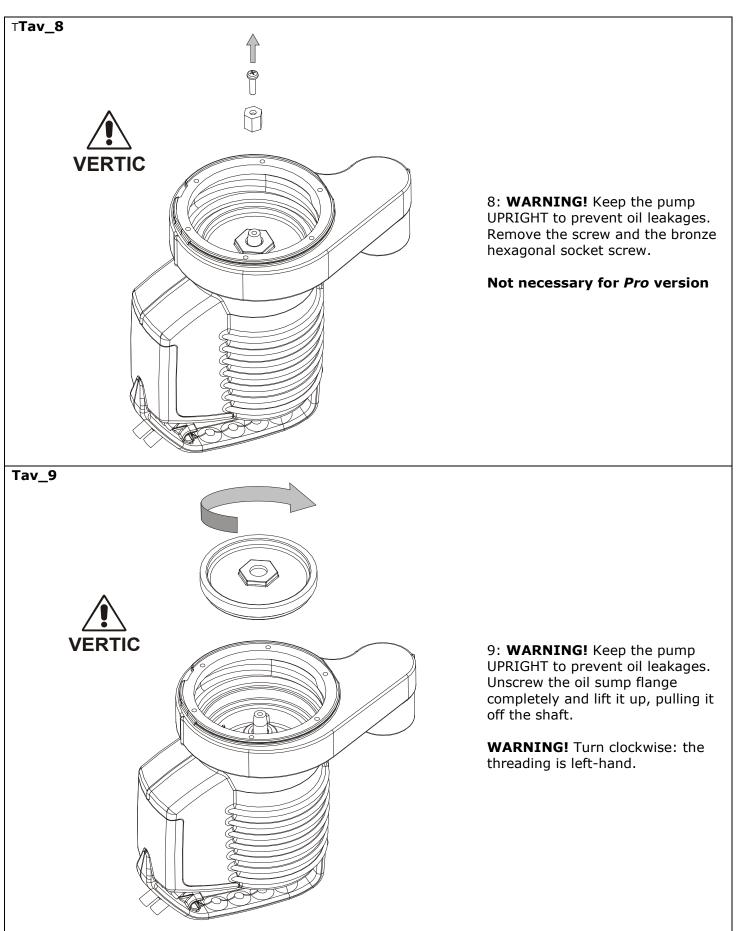
4: Undo the screw on the impeller with a crosshead screwdriver, holding the impeller still (with a pair of pliers for example) and take off the impeller using a pair of pliers applied to the impeller hub.



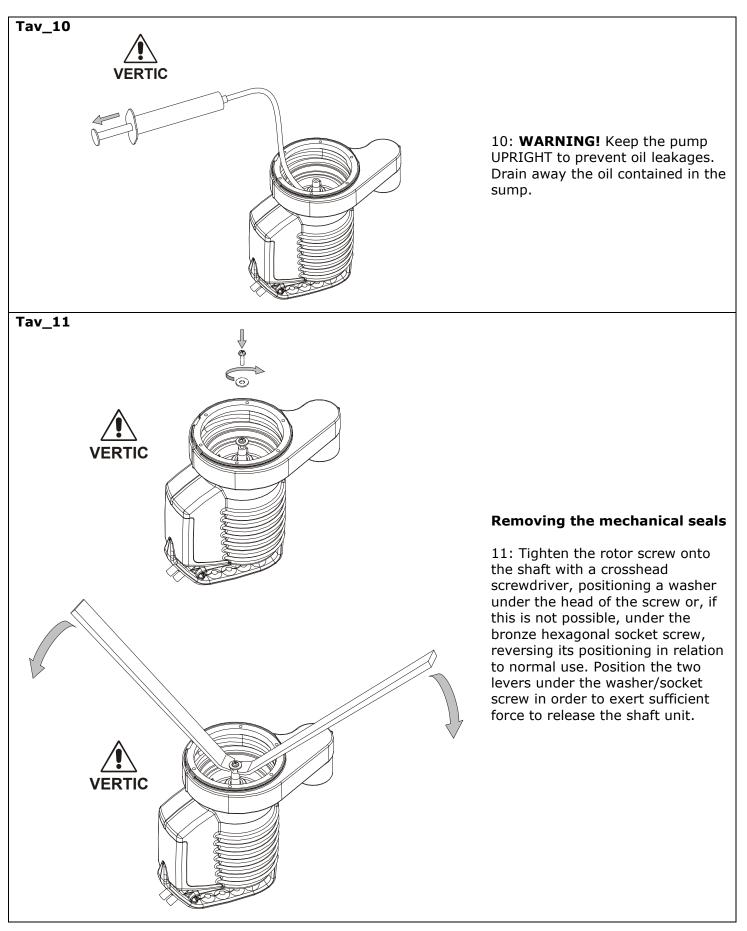




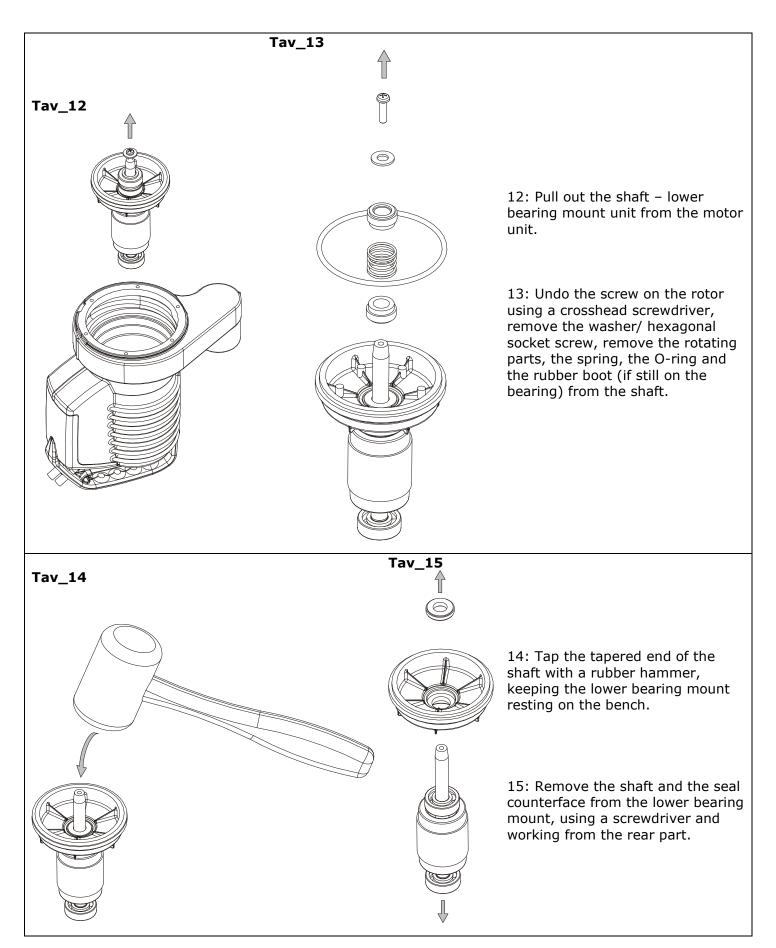




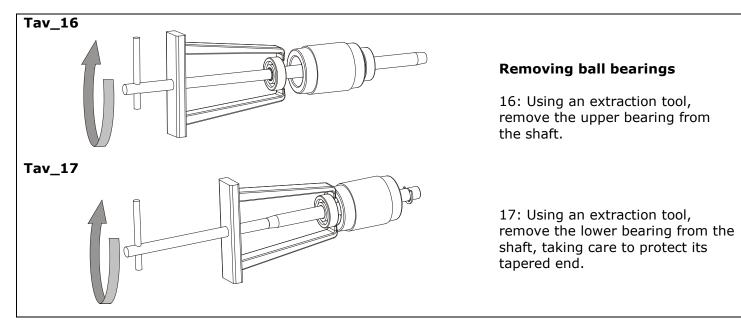


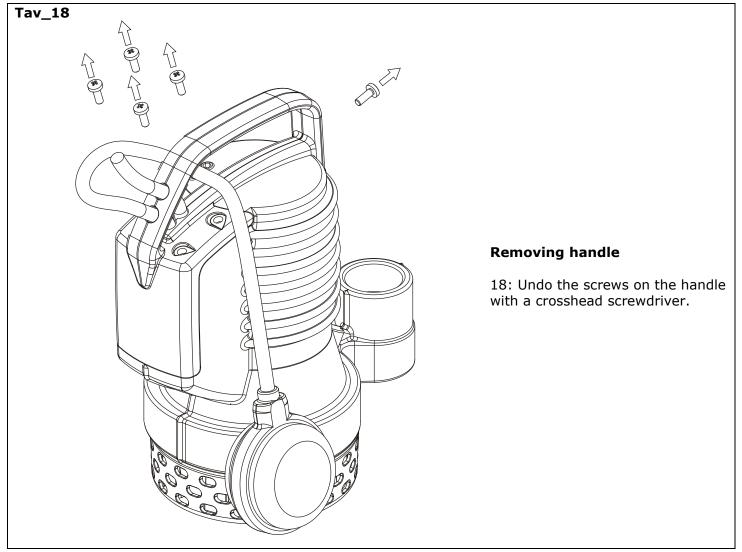






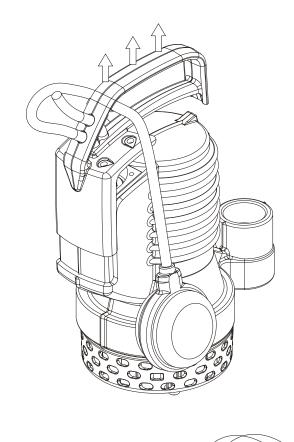


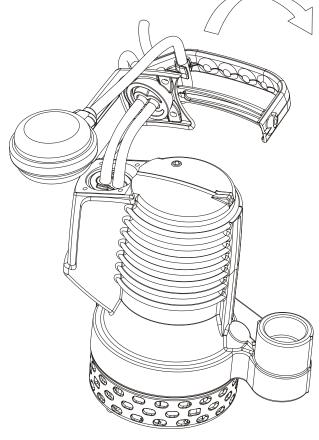






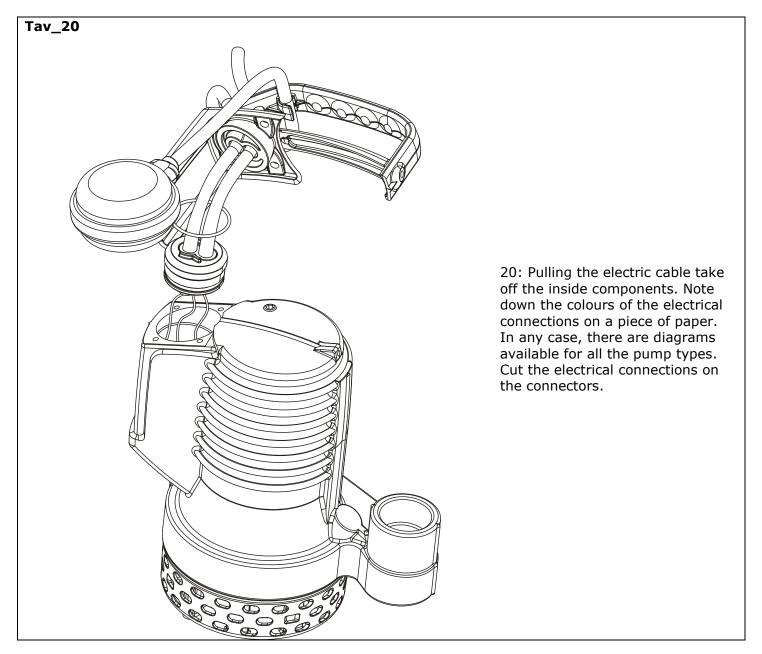
Tav_19



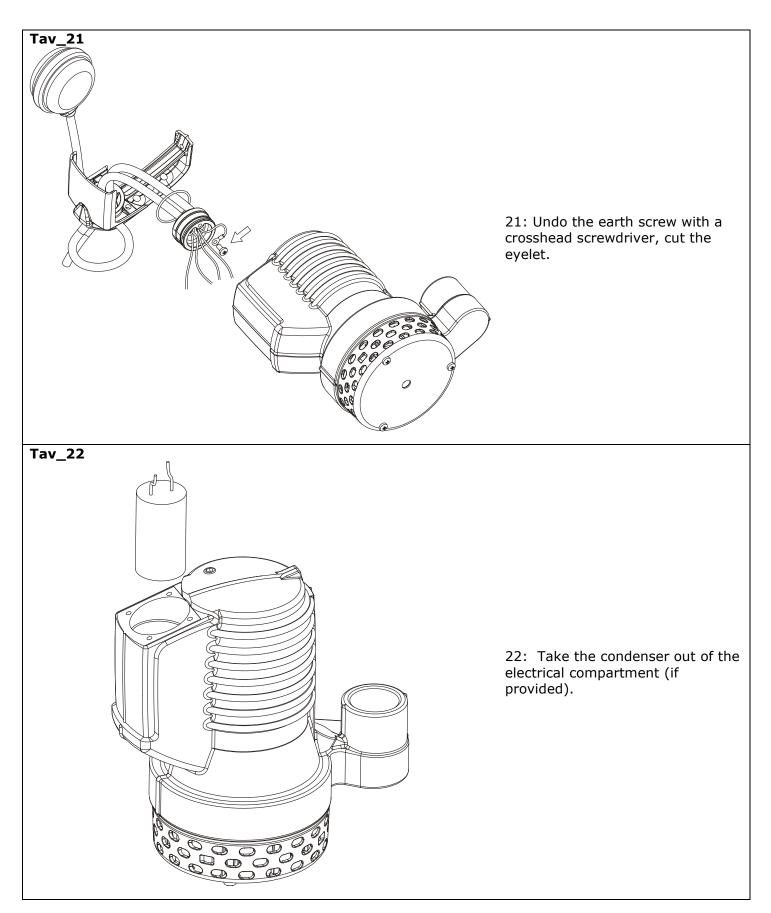


19: Grip the handle and lift it upwards, keeping the motor unit steady.

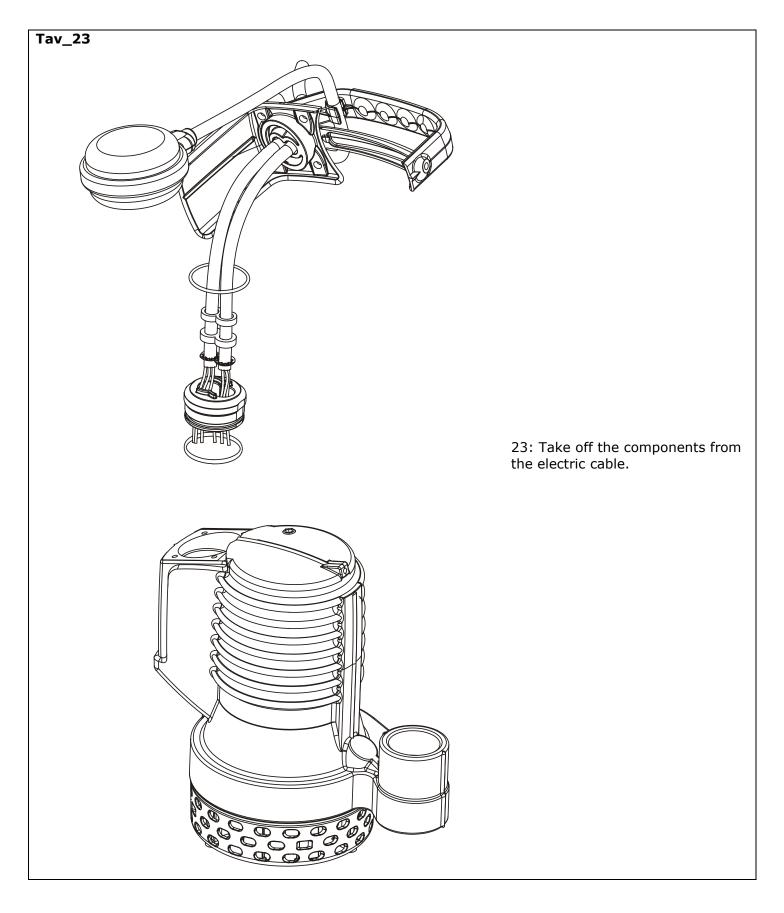






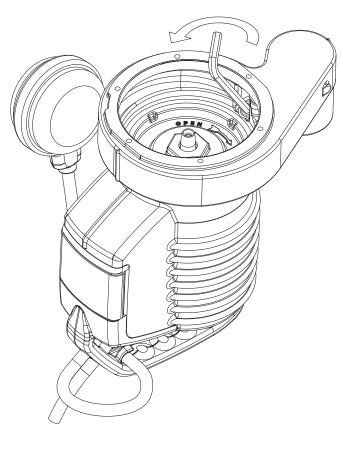






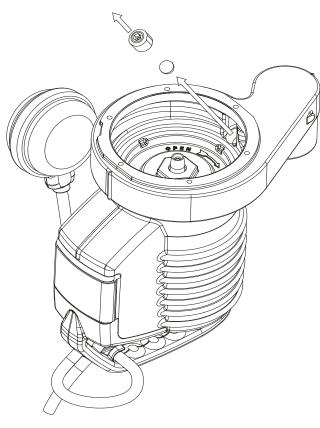


Tav_24

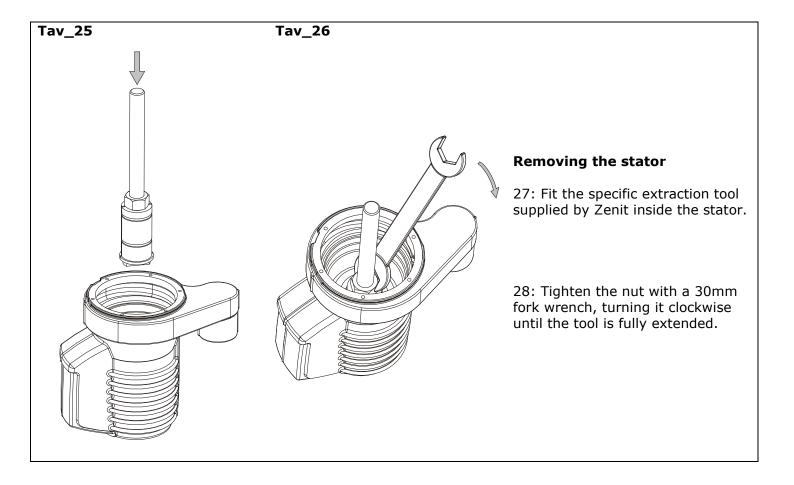


Removing Air Valve

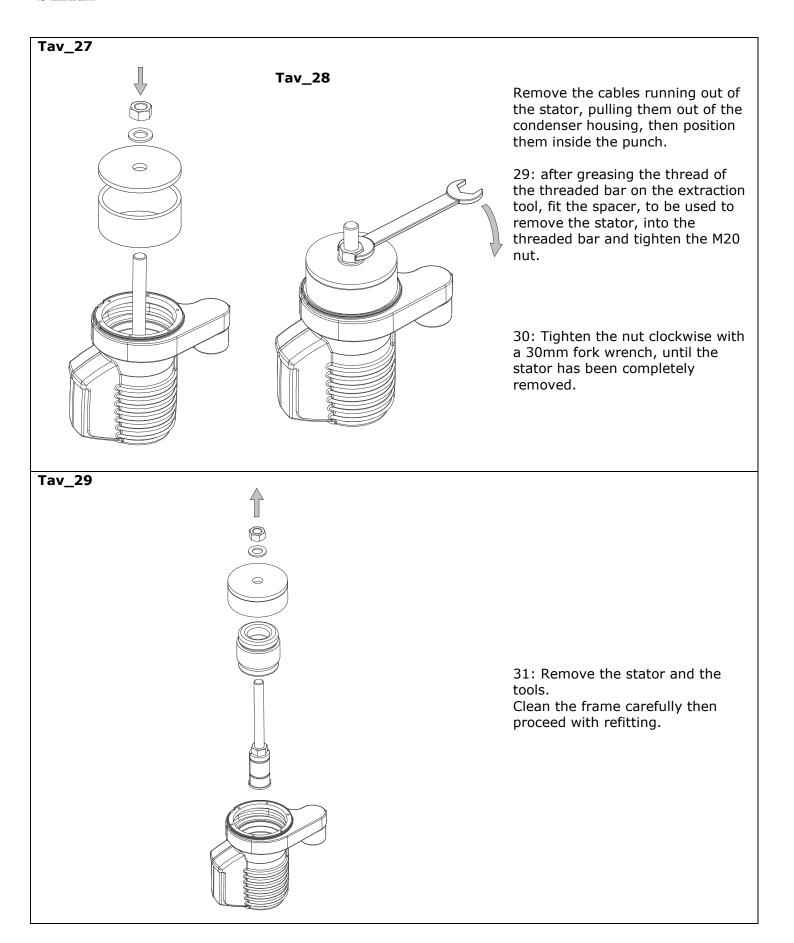
26: with exagonal wrench undo the plastic nut and remove the rubber ball.





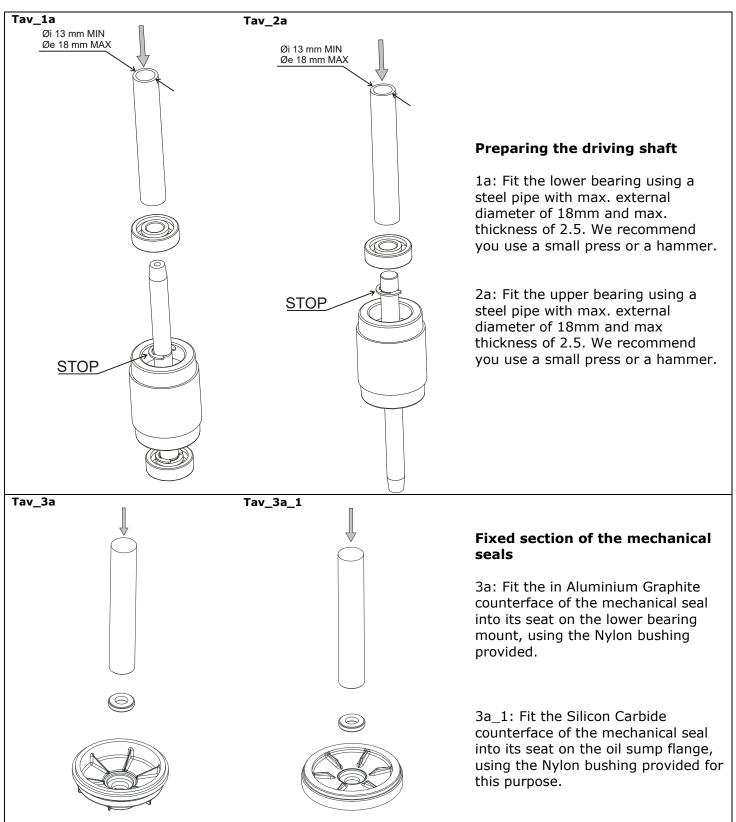






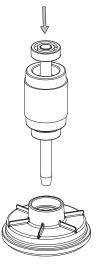


ASSEMBLING PROCEDURE





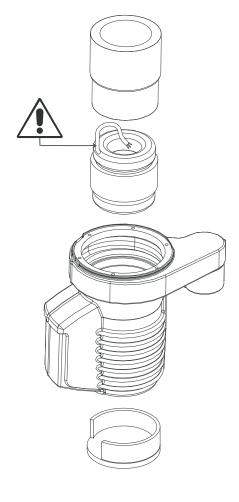
Tav_4a



4a: Fit the pre-assembled shaft into the hole in the lower bearing mount, taking care not to touch the counterface.

Gently tap the bearing into its seat with a hammer until it is flush.

Tav_5a



Fitting the stator

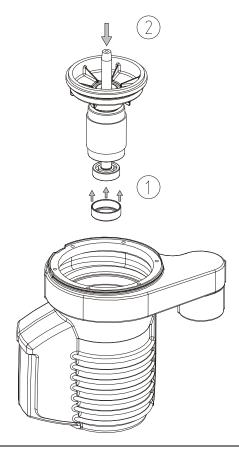
5a: Fit the stator into the frame using the specific tools (see drawing) until it is flush with the punch.

To fit the stator, use a press with max. capacity of 8 Tons.

WARNING! The stator's cable outlet must follow the direction shown in the figure, in position with the condenser seat.



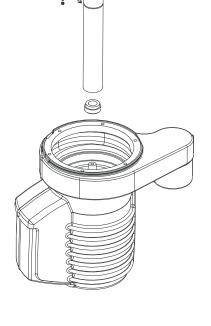
Tav_6a



Fitting the driving shaft

6a: Fit the rubber boot onto the upper bearing. Fit the body of the shaft-lower bearing mount into the frame, exerting pressure with your hands.

Tav_7a



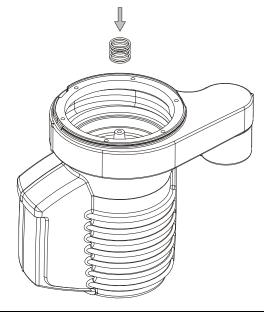
Mobile section of the mechanical seals

7a: Fit the (aluminium graphite) rotating part of the mechanical seal onto the shaft, using the nylon punch provided until it is flush.

WARNING! Check that the parts in contact with each other are clean and correctly positioned (observe the fitting direction)

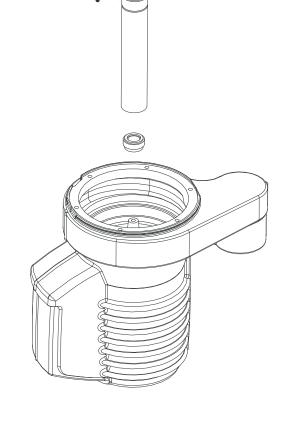


Tav_8a



8a: Insert the mechanical seal spring onto the shaft fitting it onto the collar on the mechanical seal below.

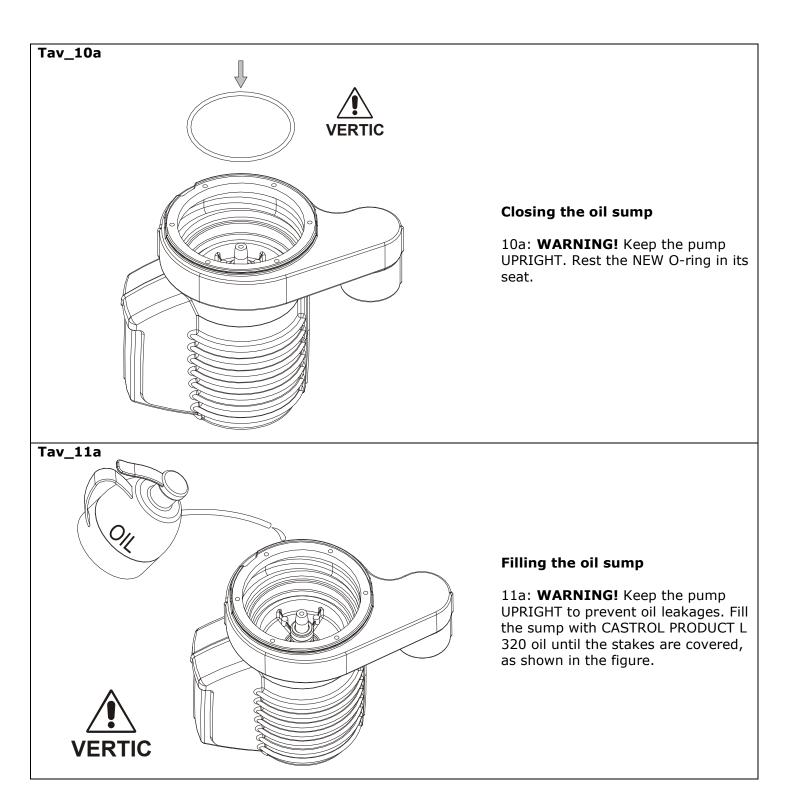
Tav_9a



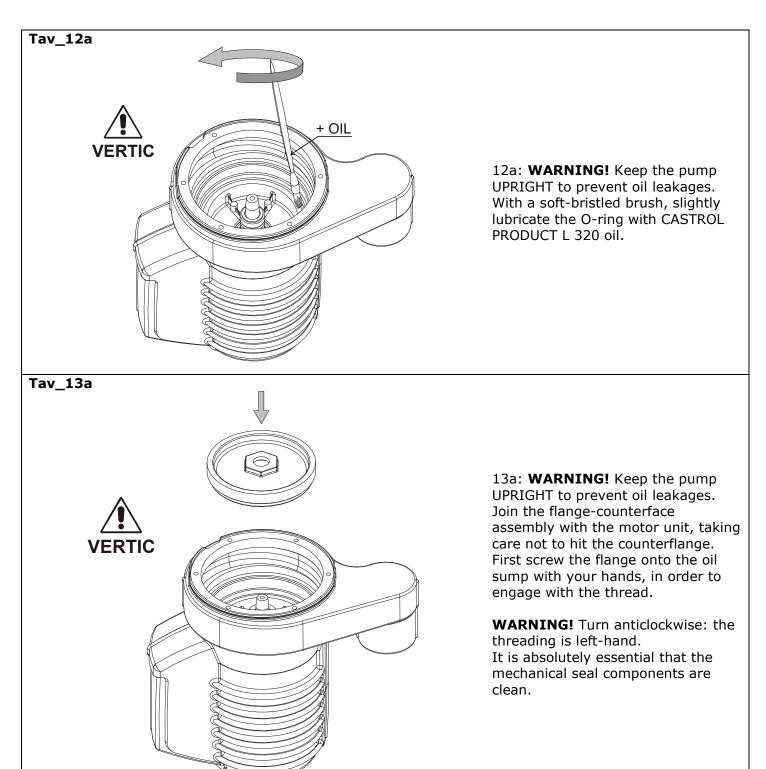
9a: Fit the (silicon carbide) rotating part of the mechanical seal onto the shaft, using the nylon punch provided until it is flush.

WARNING! Check that the parts in contact with each other are clean and correctly positioned (observe the fitting direction)

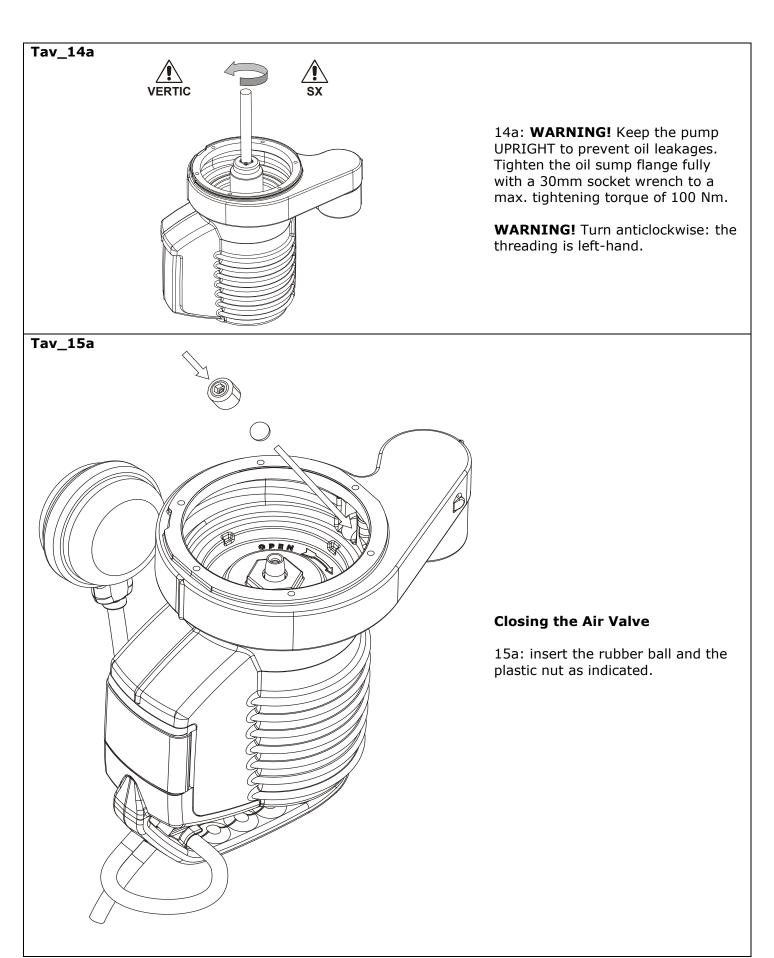




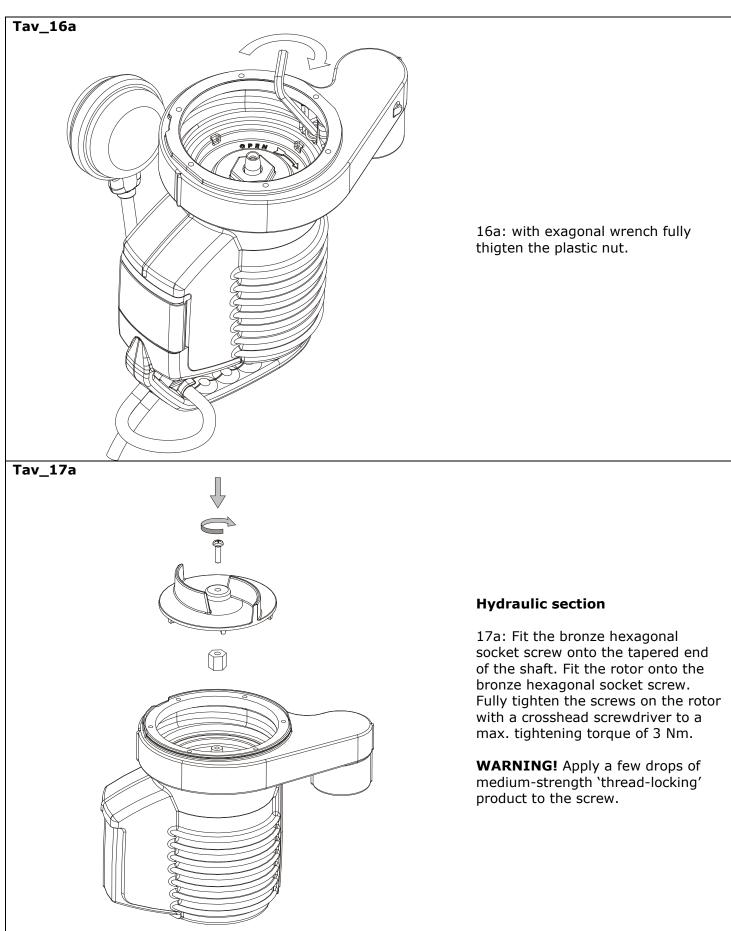




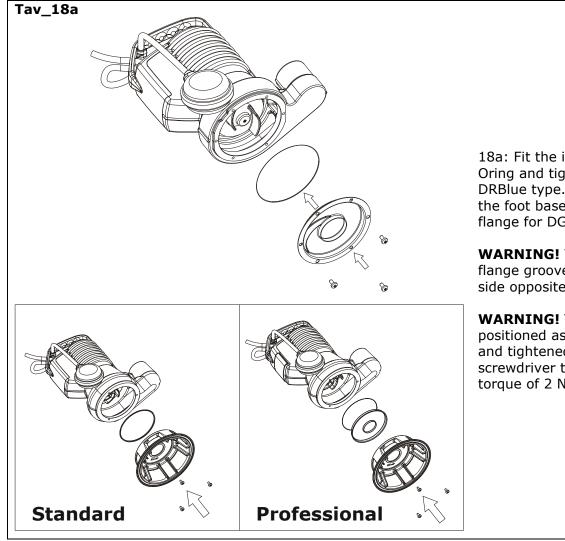










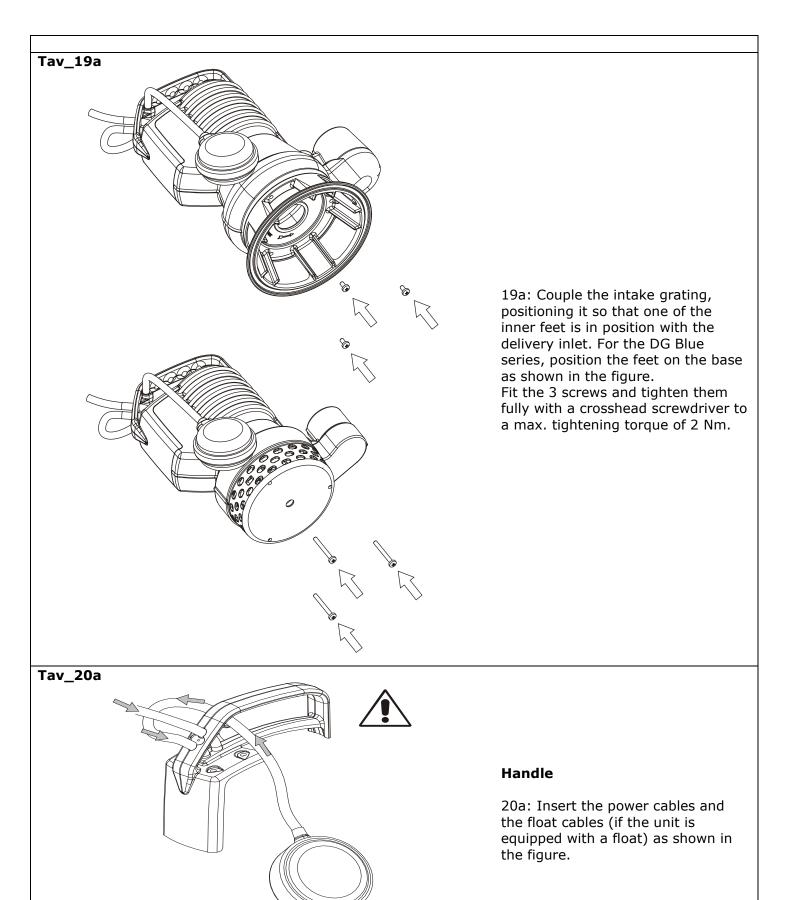


18a: Fit the intake flange and the Oring and tighten the screws for DRBlue type. For DG Blue type fit the foot base and Oring (and inox flange for DG Blue*Pro* version).

WARNING! The DRBlue intake flange groove must be facing the side opposite to the delivery inlet.

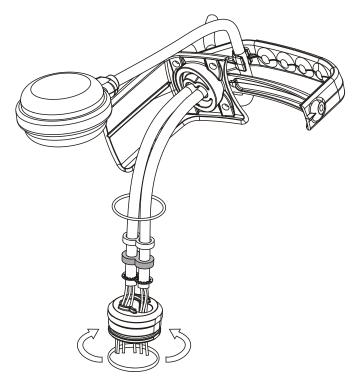
WARNING! The screws must be positioned as shown in the figure and tightened fully with a crosshead screwdriver to a max. tightening torque of 2 Nm.

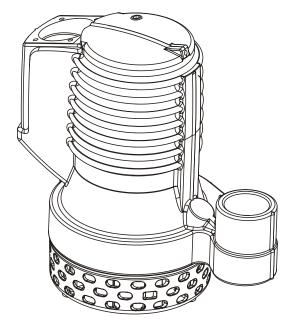






Tav_21a

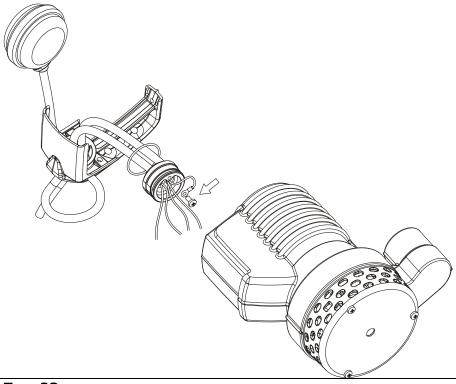




21a: insert the components on the electric cables in the order represented in figure.



Tav_22a

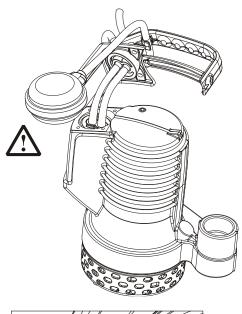


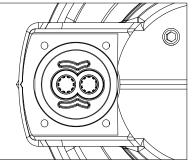
22a: Fit an eyelet for screws with diam. 5 onto the earth cables coming from the float and the power cable.

Position the eyelet on the earth underneath the screw head and tighten the screw on the aluminium support fully, using a crosshead screwdriver, to a max. tightening torque of 3,5 Nm.

Connect the wires as illustrated in the diagram, or according to the positions noted down during removal.

Tav_23a

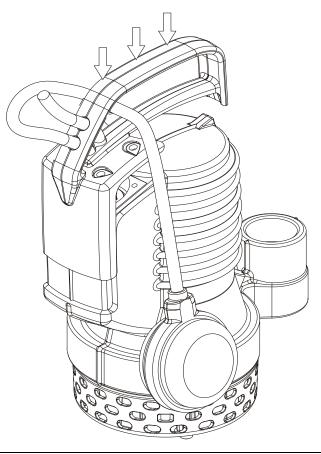




23a: fit the aluminium support/rubber basket/anti-stress cable and cable gland assembly, keep attention on the aluminium support orientation: the short ribs must be positioned toward the pump center.

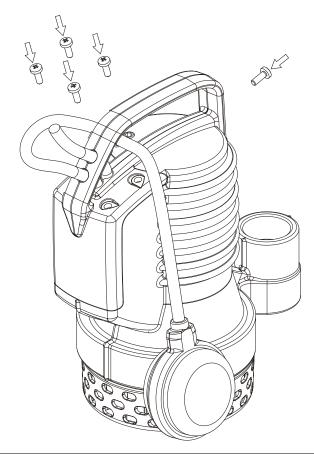






24a: Fit the handle-cable clamp assembly so that it closes up the electric compartment, pulling the cables slightly outwards to keep the assembly together throughout this stage.

Tav_25a



25a: Insert the screws as shown in the figure. Screw them in with a crosshead screwdriver but do not tighten them fully. Tighten screws fully, working crosswise, to a max. tightening torque of $3Nm \pm 30\%$.

ZENIT Italia S.r.l.

Modena – Italy
Customer Service Phone (+39) 059.956.631
Customer Service Fax (+39) 059.597.0333
www.zenit.com
e-mail: info.it@zenit.com

Cod. 2727NN00061 Rev. 2 – 01/11/2024