Boxer Pumps > Products > Peristaltic Pump

15QQ flip-top peristaltic pump with AC Synchronous Motor.
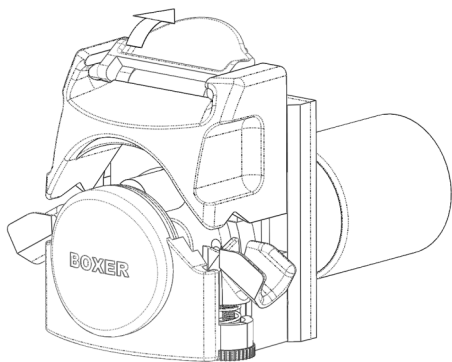
Technical Data

Flow per Revolution	
ID Ø 1.6 mm	1.52 / 2.85 ml/min (8 / 15 rpm)
ID Ø 2.4 mm	3.12 / 5.85 ml/min (8 / 15 rpm)
ID Ø 3.2 mm	5.28 / 9.90 ml/min (8 / 15 rpm)
ID Ø 4.8 mm	10.00 / 18.75 ml/min (8 / 15 rpm)

Electrical Data	
Voltage	230 V
Frequency	50 Hz
Power consumption	

Tubing	
Material	Pharm-a-line / Silicone / Lagoprene / ED-Plex
ID Ø range	ID Ø 1.6 to 4.8 mm
Wall thickness	1.6 mm

General Data	
Max pressure	2.0 bar
Max suction height (dry)	9.0 m H_2O
Motor life	>10000 hour
Weight	409 g

All data measured with 'run-in' Pharm-a-line tubing and H_2O.

Tube Loading / Unloading

The 15QQ peristaltic pump is a flip-top design. The loading and unloading of the tube is through operation of the lever:
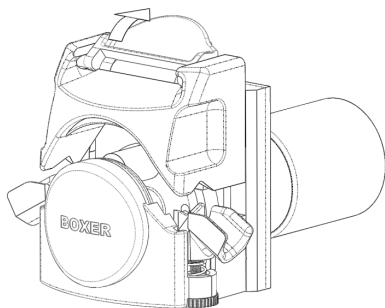
The tube grips are sprung loaded and adjust automatically to the OD of the tube. The 15QQ is designed for 1.6 mm wall tubing from ID of 1.6 to 4.8 mm. Only tubing suitable for peristaltic pumps should be used.
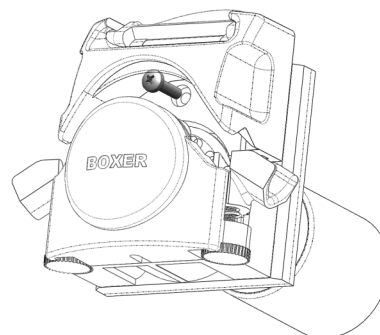
Boxer Pumps > Products > Peristaltic Pump

Removal / Assembly of Pump Head

The 15QQ peristaltic pump is designed with a bayonet style head assembly onto the motor plate.
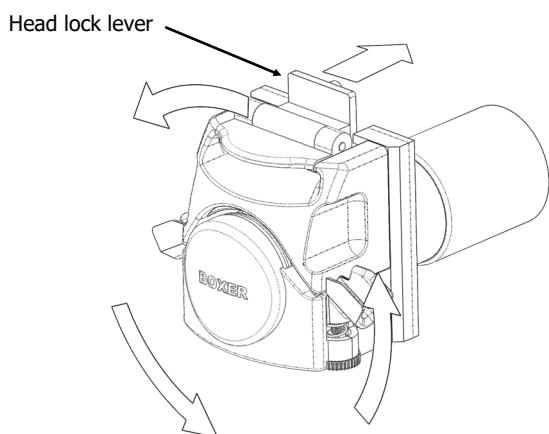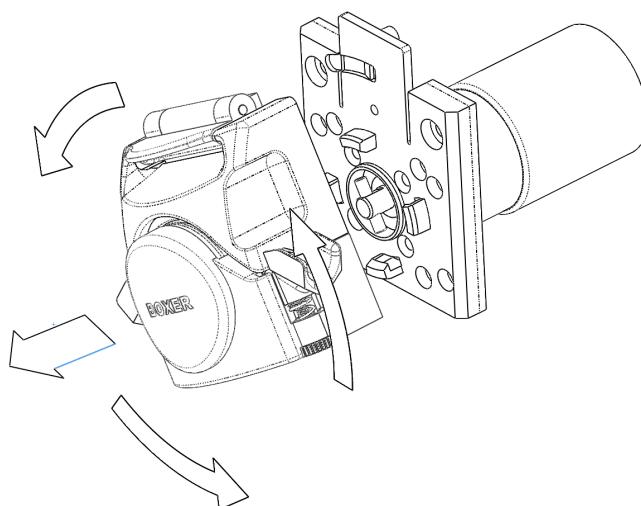
❶ Open the tube clamp lever completely.

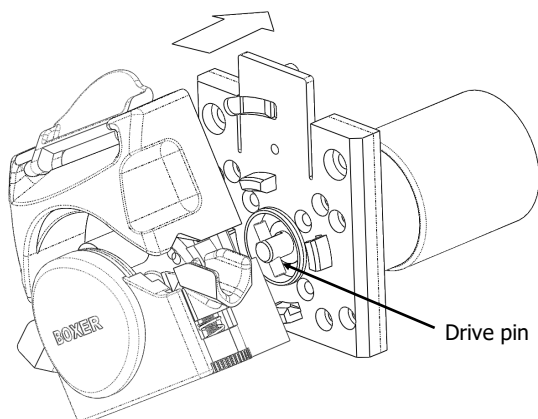❷ Remove the M3x12mm screw. Close clamp lever.

❸ Push head lock lever in direction on the motor. Rotate the head anti clockwise.
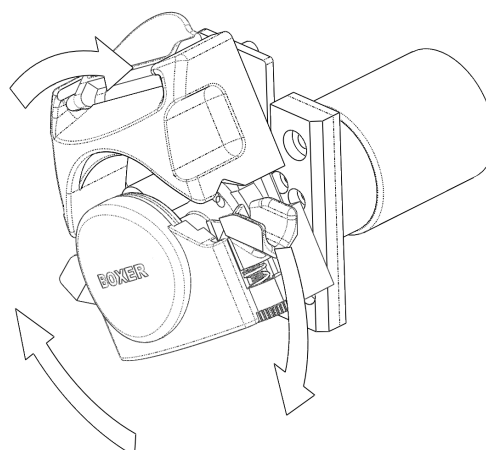
Head lock lever

❹ Pull the head assembly away from the motor plate.

❺ To re-assemble: open tube clamp lever. Align head with motor plate at the angle shown below. Rotate pump rotor until the rotor is aligned with drive pin. Push head into bayonet.

Drive pin

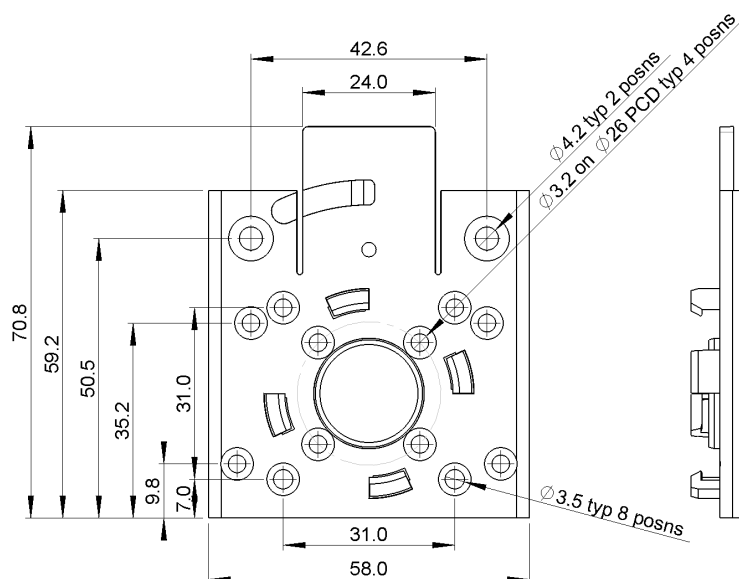❺ Rotate head assembly clockwise until 'clicks' into position. Replace M3x12mm screw. Close tube clamp lever.
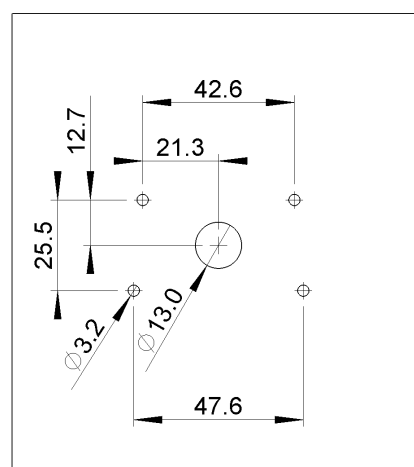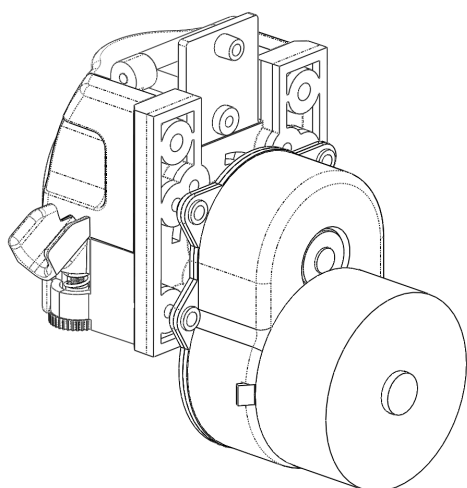
Assembly Information

The 15QQ peristaltic pump with synchronous motor is assembled to a panel cut-out using the following procedure:

1 Remove pump head from the motor plate (see previous page).
2 Remove the motor from the motor plate (4 x M3 screws).
3 Using the recommended panel cut-out below, insert the motor shaft through the 13 mm diameter hole.
4 Place the motor plate into position (outside of panel) and replace the 4 x M3 screws. The thickness of panel should be max. 2mm.
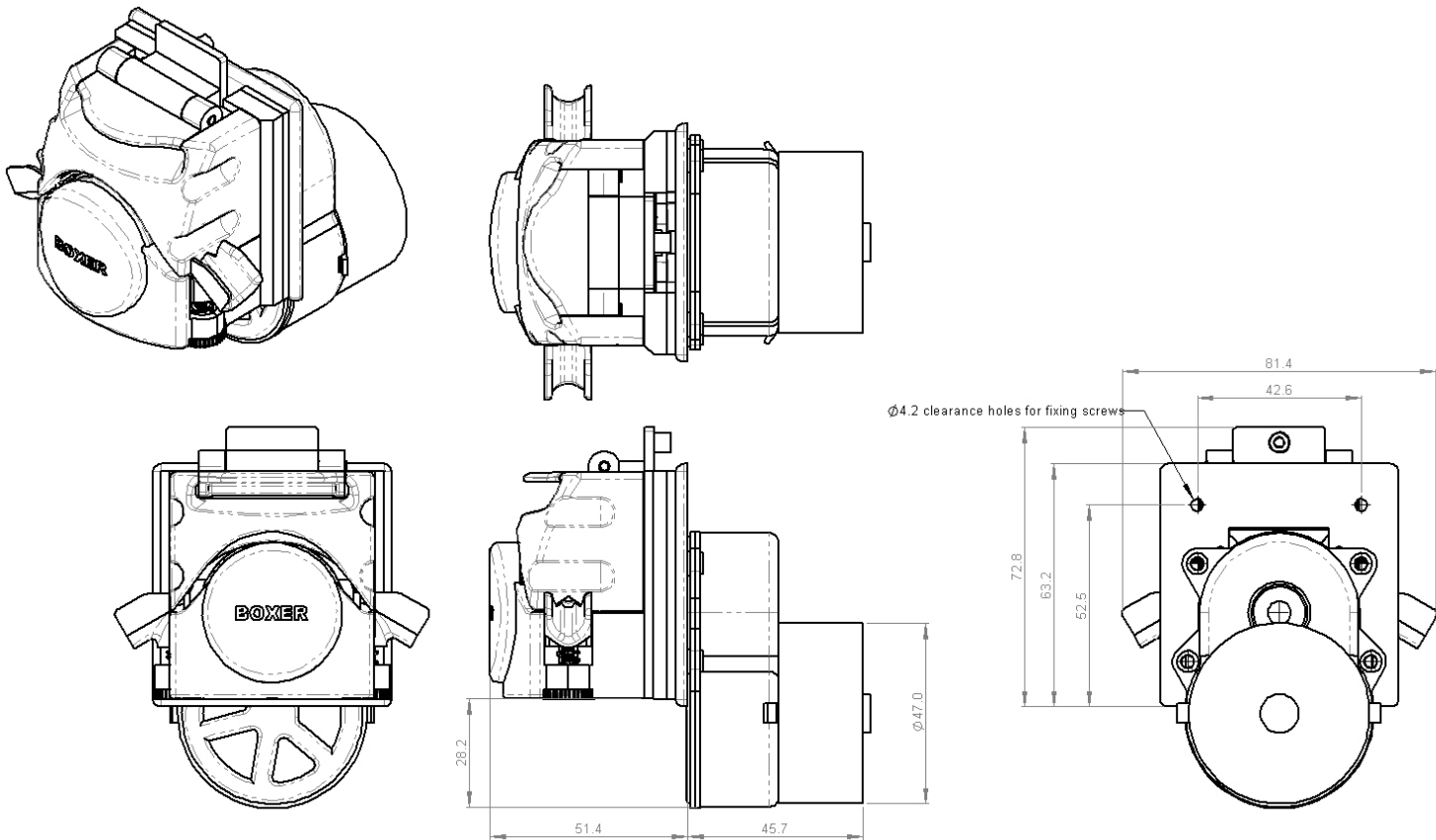5 Replace the pump head onto the motor plate (see previous page).

Motor plate (designed for several different motors):

Recommended panel cut-out:

Boxer Pumps > Products > Peristaltic Pump

Drawing

Links to Drawing and STEP file:
→ Drawing (.png)
→ STEP (.zip)

Order Information

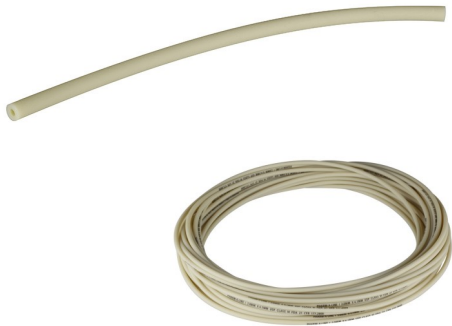| Part Number	Description
15205.900	15QQ 230 V 50Hz / 8 rpm / 4 Rollers
15204.900	15QQ 230 V 50Hz / 15 rpm / 4 Rollers

Please enquire for part numbers of other configurations.

Boxer Pumps > Products > Peristaltic Pump

Tube Sets / Tube Lengths

Tubing should always be ordered separately. Listed here is **Pharm-a-line** (PHI) tubing in 150 mm single lengths,
1m (or multiples of) lengths or 15 m coils:

Part Number	Description
15000.019	Tube length PHI ID Ø 1.6 mm x 150 mm
15000.020	Tube length PHI ID Ø 2.4 mm x 150 mm
15000.021	Tube length PHI ID Ø 3.2 mm x 150 mm
15000.048	Tube length PHI ID Ø 4.8 mm x 150 mm
15000.210	Tube length PHI ID Ø 1.6 mm x 1 m
15000.211	Tube length PHI ID Ø 2.4 mm x 1 m
15000.212	Tube length PHI ID Ø 3.2 mm x 1 m
15000.213	Tube length PHI ID Ø 4.8 mm x 1 m
81616.115	Tube length PHI ID Ø 1.6 mm x 15 m
82416.115	Tube length PHI ID Ø 2.4 mm x 15 m
83216.115	Tube length PHI ID Ø 3.2 mm x 15 m
84816.115	Tube length PHI ID Ø 4.8 mm x 15 m

Technical information including chemical compatibility:

→ Pharm-a-line

Alternative tubing (**Silicone**, **Lagoprene** and **ED-Plex**):

→ 15QQ Tubing

Additional Information (Links):

→ 15QQ Webpage

→ Boxer peristaltic pump overview

All data is representative for initial selection purposes. It is the responsibility of the user to determine suitability for the intended use. Technical changes reserved. These peristaltic pumps are not suitable for in-vivo applications.