

**FX**airguns MADE IN SWEDEN



**HIGHPRESSURE HANDPUMP MANUAL**

## Introduction

The FX pump is designed, manufactured and tested by FX Airguns AB in Sweden. There are two patented systems. The first of them is the 3 stage handpump that is capable of pressures up to 250 bar (3600 psi) with ease.

The latest invention is a 4 stage turbo handpump. It has an unique gearing system that gives you the opportunity to gear down when it gets tough.

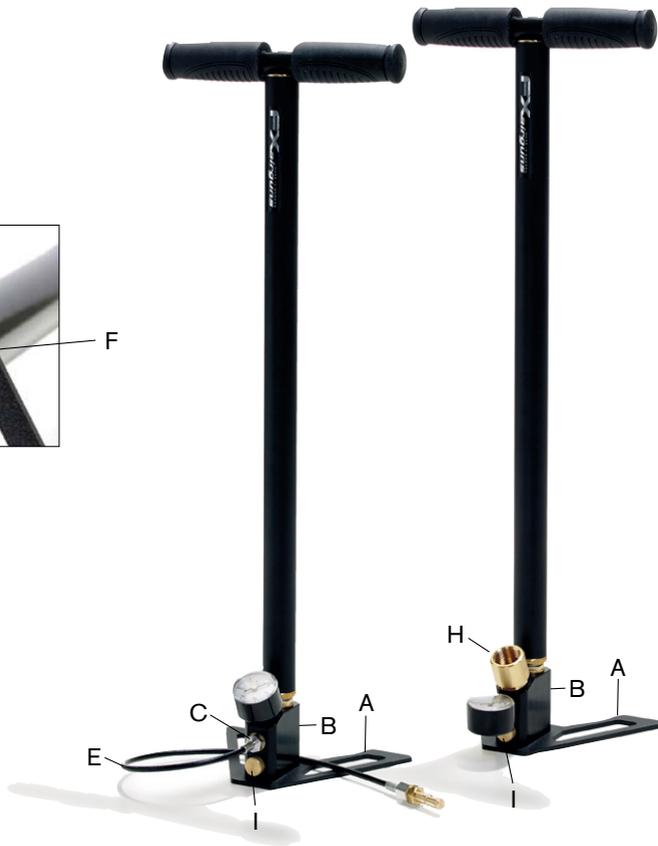
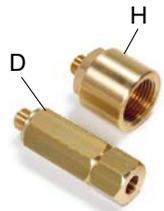
It allows the user to choose if they want high volume (300 cc) with lower pressure or low volume (200 cc) with higher pressure. Both are equipped with a exceptional two stage filtration system that ensures that both moisture and particles are eliminated from the compressed air. Please visit our website [www.fxairguns.com](http://www.fxairguns.com) to check out the complete fx range of products.

## Safety instructions and warnings

- For use only with precharged airguns.
- The pump requires a reasonable amount of physical exertion, If you have any existing medical conditions please check with your doctor prior to use.
- Never exceed the manufacturer's stated filling pressure.
- The maximum fill pressure for this pump is 250 bar (3600 psi).
- Attempting to disassemble, abuse or modification of the pump will immediately Invalidate the warranty.
- Never dismantle the pump, in the event of a problem - Contact your dealer.
- Follow the operational instructions of both your airgun and the fx pump before use.
- Do not lubricate it with oil.
- Lubricate with FUCHS RENOLIT RHF1 or similar.
- Never operate the pump for over 5 minutes at a time, Overheating may occur. Keep hands and other sensitive parts of your body away from the ventilation hole and make sure that other people are not in the way of the ventilation hole when bleeding the moisture trap.
- Continuously bleed the moisture trap when filling larger airtubes. Make sure that threads on the pump, adaptors and airtubes are in good shape and not worn before use.



## Assembly



- 1 Mount footplate (A) at the pump base (B) from beneath with the enclosed allen screws (F). *Tool required: Enclosed 3mm Hex Key (allenkey).*
- 2 If the pump is equipped with a DIN18 (H) Adaptor jump to page 5 otherwise move on to 3.
- 3 Make sure that seals are attached to all connections.
- 4 If the pump is equipped with an external moisture trap (D) you should mount this now to the pump base (B)

- at point (C). *Tool required: 19 mm wrench/spanner (not included).*
- 5 If a hose is included with the pump mount it at point (C) or (D) if External moisture trap is fitted. Use a monkey wrench or a 14 mm's key. *Tool required: 14 mm wrench/spanner (not included)*
- 6 Fit whatever connector your rifle is equipped with, make sure that it's Threaded with 1/8" connection before mounting.

## Operating instructions

### DIN 18 adaptor:

- 1 Attach your airgun adaptor in accordance with your airgun manufacturers Instruction manual.
- 2 Unscrew adaptor (H) from the pump base and attach this to your Airtube adaptor.
- 3 Close ventilation screw (I)
- 4 Attach your air tube with adaptor(s) to the connector thread (H).
- 5 Charge your air tube to wanted pressure (see 5:5 For hints)  
Note: Some airguns (steyr, Walther etc.) have cylinders that must not suffer pressure loss when being disconnected after charging. To ensure this does not happen please jump to instructions at point 8. Otherwise proceed to point 6.
- 6 Open ventilation screw (I) quickly. This both releases the air lock between. The pump and air tube as well as draining the moisture trap of moisture.
- 7 Disconnect your airtube from the pump base then your adaptor from the airtube. You are now ready to use your airtube.
- 8 Carefully open the ventilation screw (I) for a short time only to allow water to escape.
- 9 If air pressure is lost, recharge your airtube with further pumping.
- 10 Disconnect the airtube from the adaptor which should remain within the DIN Connection (H). You are now ready to use your airtube.



### Hose with 1/8" connection:

- 1 Close ventilation screw (I)
- 2 Charge your air tube to wanted pressure (see 5:5 for hints)
- 3 Open ventilation screw (I) quickly! This releases built up moisture from the moisture trap as well as removing the overpressure in the hose so that you will be able to remove the filling adaptor from your airgun.

## 3-4 Stage Switch:

### Fourstage pumps only!

Close the valve on the handle to obtain low volume mode (200 cc), You will feel less resistance when operating but it will take longer to get to wanted pressure.

Open the valve on the handle to achieve high volume mode (300 cc), You will feel slightly more resistance when operating but you will get to wanted pressure faster.



### HINTS AND TIPS

Pull the pump handle all the way up while your feet rest at the foot plate (A). Then push it down until your arms are straight down, use your body weight to push the pump all the way down with arms straight and don't forget to bend your knees!

## Trouble shooting

Problem	Solution
When I start pumping the manometer does not move?	Check that the ventilation screw is fully tightened.
The ventilation screw is tightened but the manometer does not move.	Bad seals in connection between pump and airtube, if so switch to new ones.
It requires much force to move the pump handle both up and down. (feels like it's sucked down)	Probably the high pressure seal that's worn and needs replacement.
The manometer is going up when I push down but goes straight back down when I pull the handle upwards, (feels like the handle pushes up by itself)	Probably the none return valve seal that's worn and needs replacement.

## Service

If the tube surface (visible in extended position) should be dry you shall apply a thin layer of Fuchs Renolit RHF-1 grease or a standard multipurpose grease.

The pump is equipped with a particle filter that might need replacement after a long period of use.

### Filter location

#### DIN 18 Connection:

Unscrew the Adaptor (H) and the filter is located in the threaded end.

#### Hose with 1/8" connection:

Filter is located in the end of the hose (E) between the hose and the filterhousing. If you use a FX Fillprobe you can apply the filter directly between the fillprobe and the hose/filterhousing.

We use regular 4,5 (.177) cleaning pellets as particle filter so you can easily get hold of them.

The FX pumps are (other than above) maintenance free. Keep clean and make sure you bleed the moisture trap properly.



## Accessories



### FX Optics 6-18x44 SFIR

Objective Lens Diameter	44 mm
Diopter Adjustment Range	-2,0 / -2,0
Reticle	Illuminated Red
Parallax	10 yds-infinity - wheel adjusted
Body Tube Diameter	30 mm
Total Length	335 mm
Total Weight	750 g
Lens Coating	Fully Multi Coated



### FX optics 3-12x44 ir/ao

Objective Lens Diameter	44 mm
Diopter Adjustment Range	-2,0 / +2,0
Reticle	Illuminated Red
Parallax	30 yds-infinity
Body Tube Diameter	25,4 mm
Total Length	350 mm
Total Weight	500 g
Lens Coating	Fully Multi Coated

### Charging kit

Complete charging device for your scuba tank.

**Features:** Pressure gauge, particle filter (replaceable), and bleed valve.

**Connections:** Kevlar hose 0,5 m with 1/8" thread and FX Fillprobe. DIN in scuba end. Also available with Stainless quick connection.



### Barrel support

Requires newer version air cylinder with raised section on end cap. Available for standard (14 mm) barrel and shrouded versions (16 mm). Replacement end cap is required if an older version of cylinder. Is to be used with barrel support.



### Tube clamp

Allows easy addition of a sling, strap, bipod or other accessory without any modification to the fore end of the stock. Suitable for all airtubess with a diameter of 33 mm.



### FX no limit scopemounts - 9-11 mm or Picatinny

Vertically adjustable 3,8 mm 4 m at 100 m shooting distance. Eliminates all problem with limits of crosshair movement for long range shooting. Always lets you use the sweet spot of your scope and fine tune with crosshairs. Easy to use and affordable! Available for 1" and 30 mm scope tubes.

### FX pellets

High performance domed (round tip) air rifle pellets.  
**Calibre:** 7,62 (.30) weight 3g (46,30grains).  
**Calibre:** 7,62 (.30) weight 3,25g (50,15grains).  
**Calibre:** 6,35 (.25) weight 1,645 g (25,4 grains).  
**Calibre:** 5,52 (.22) weight 1,030 g (16 grains).  
**Calibre:** 4,52 (.177) weight 0,547 g.



### Quick Disconnect Fill Probe

For easy swap between later model of quick charging connector and early model connector. Made of hardened steel.



### Pump accessories

Various adapters DIN to 1/8". External moisture trap, easy to service and clean, 1/8" connections.



### Cleaning pellets

Recommended for all FX guns. Outstanding cleaning without damage to the barrel. Available in 4,5 (.177), 5,5 (.22) and 6,35 (.25).



**FX**airguns MADE IN SWEDEN

[www.fxairguns.com](http://www.fxairguns.com)