

Instructions



PNEUMATIC HOSE CLAMP TOOL

Operation, parts and safety manual

MIKALOR
www.mikalorcompany.com

Health and safety

1.1 - Safety, maintenance and preparation Page 3

Options

2.1 - Ear clamps Page 4

2.2 - Snap fit clamps Page 4

Assembly variants

3.1 - Clip clamps - Pneumatic Page 5

3.2 - Ear clamps - Pneumatic Page 6

3.3 - Body and handle for two models Page 7

Operation

4.1 - Using de tool Page 8



Tooling Overview

The tool is designed in a modular format to allow tools to be built to a specification that suits the hose clamp type and size range.

The Jaw Plate assembly of the tool contains the closure mechanism. This mechanism is specific to the particular type and size range of hose clamp.

The Body assembly can be made up of either one, two or three cylinders. The variant is dependent on the force required to close each particular type and size range of hose clamp.

The Handle assembly is Pneumatic. The pneumatic variant can be connected to a mains air supply regulated to a maximum of 6 bar. See the Operation section for advised pressure settings for each particular type and size range of hose clamp.

Safety, maintenance and preparation 1.1

Read these instructions carefully.



1. TOOL MISUSE

The tool should be used to fit the hose clamp for which it has been designed.



2. EYE INJURY HAZARD

Failure to wear safety glasses with side shields can result in eye injury or blindness. It is recommended that safety glasses with side shields which conform to ANSI Standard Z87.1 or EN 166 should be worn.



3. HAND INJURY HAZARD

Care should be taken at all times to keep hands and fingers clear of the moving parts of the tool. The tool must be held by the handle. If two handed operation is required, then the tool should be held by the handle and cylinder body.



4. NOISE HAZARD

- Sound pressure level is less than 70dBA.
- Vibration level is less than 2.5 ms⁻².



5. MAINTENANCE

50.000 operations: – Inspect internal piston assembly for wear and replace as necessary. Take care when removing internal piston assembly, as return spring can fly out. Clean and re-grease internal piston assembly and cylinder bore upon re-assembly.

500.000 operations: – Replace piston O-ring. Clean and re-grease internal piston assembly and cylinder bore upon re-assembly.

Air Preparation

To perform correctly, this pneumatic tool requires a continuous flow of clean, dry air at a suitable pressure. The tool inlet connection is a 1/8" female BSP parallel thread.

Air Flow

The connection to the tool is via a 2 m or 4 m flexible hose with a minimum ID of 4mm.

Air Filter

The best results, use a 50 micron filter or better.

Air Lubricator

Air lubrication is not required when using these tools.

Pressure Regulator

A pressure regulator is essential for controlling the performance of the tool and should be mounted as close to the tool as possible, preferably within 3m (10ft). The regulator should have a safe working pressure in excess of 10 bar.



Ear Clamps 2.1

Note for full range of available hose clamps visit our website.



One ear clip

Available in:
 - Galvanized steel W1
 - Stainless steel W4 AISI 304



Two ear clip

Available in:
 - Galvanized steel W1
 - Stainless steel W4 AISI 304



One ear clip with inner ring

Available in:
 - Galvanized steel W1
 - Stainless steel W4 AISI 304



OEM Ear Clip

Available in:
 - Galvanized steel W1

Clip clamps 2.2

Note for full range of available hose clamps visit our website.



Clip clamp

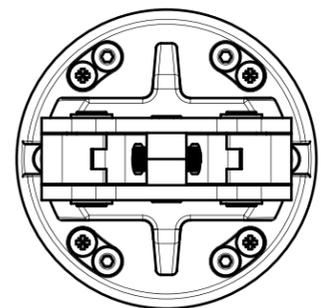
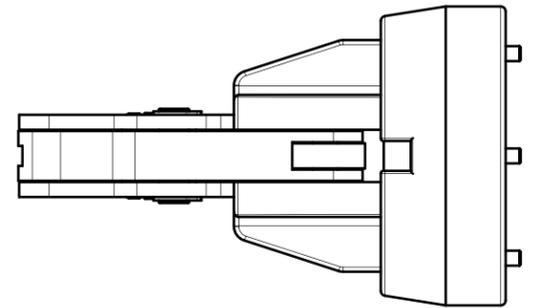
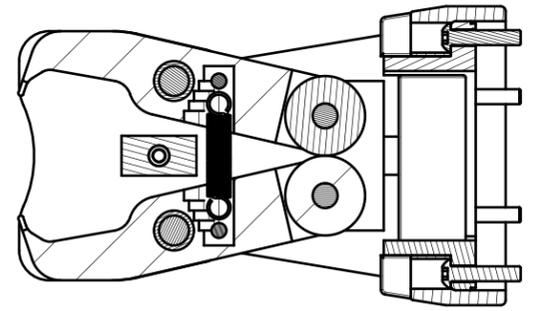
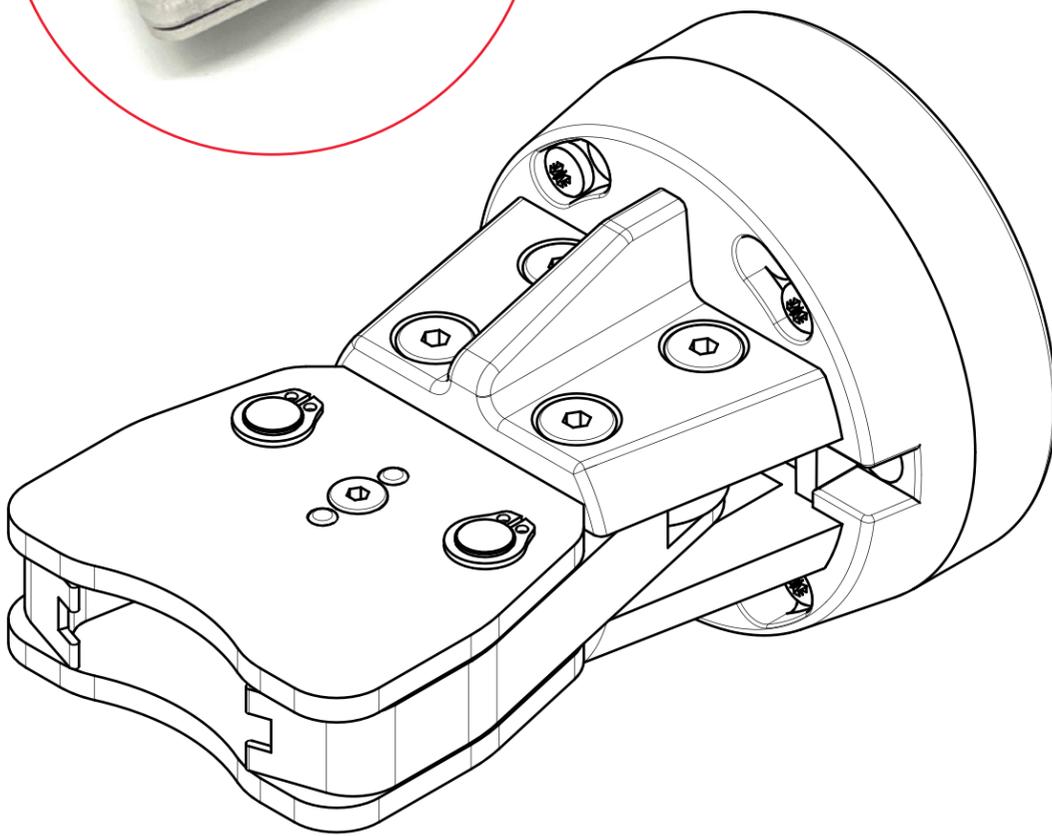
Available in:
 - Stainless steel W4 AISI 304

Clip clamps - Pneumatic

3.1

Clip clamps Pneumatic tool Part Number: **03030402**

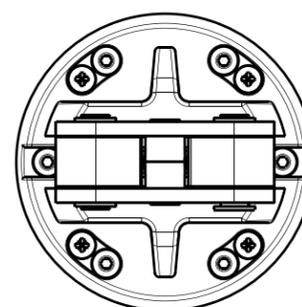
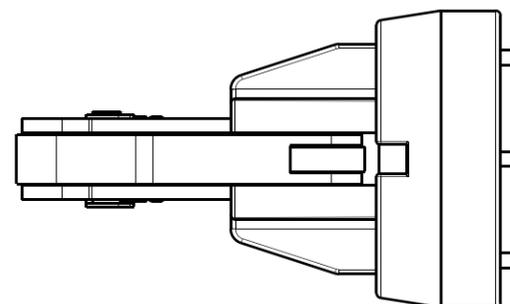
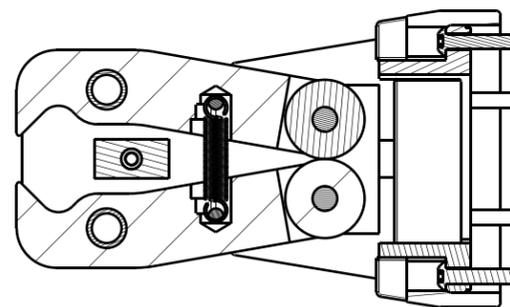
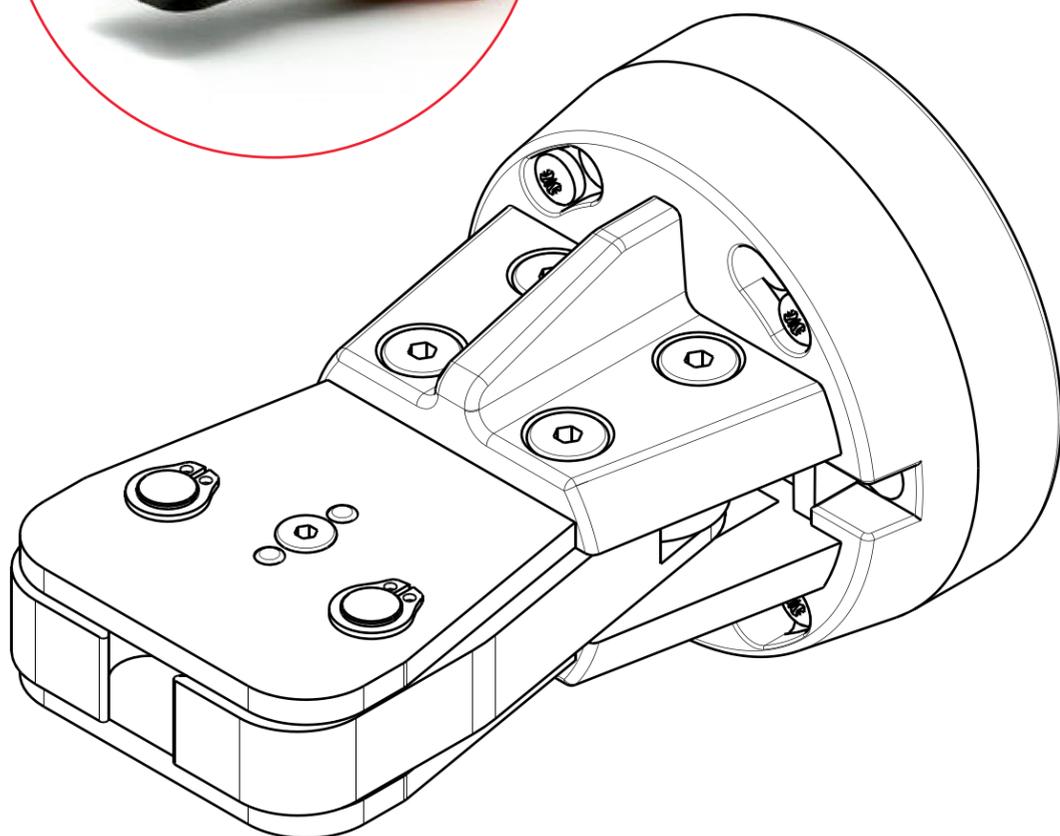
Jaw Assembly



Ear Clamps - Pneumatic 3.2

Ear clamps Pneumatic tool Part Number: **03030408**

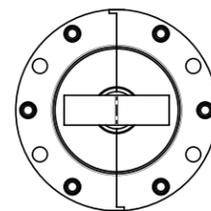
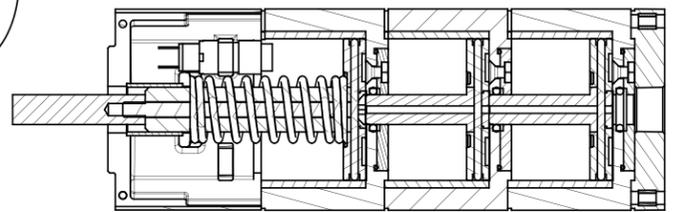
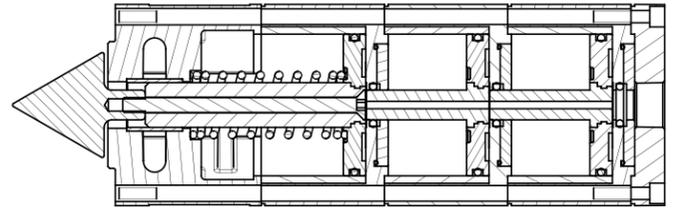
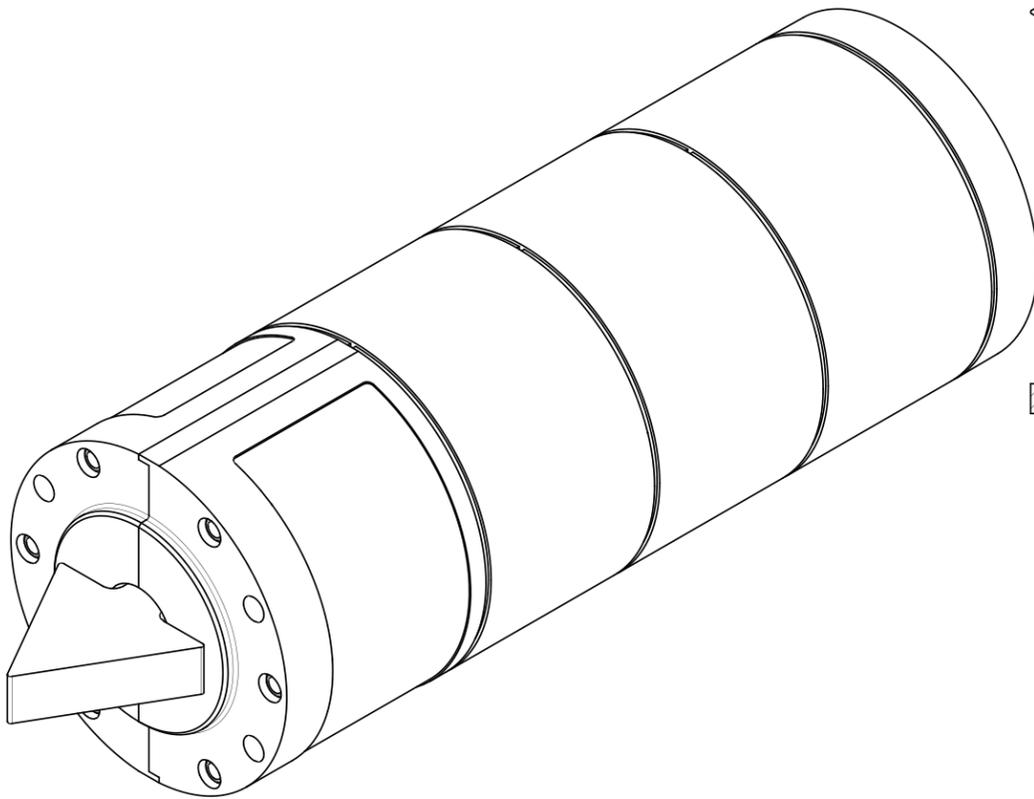
Jaw Assembly



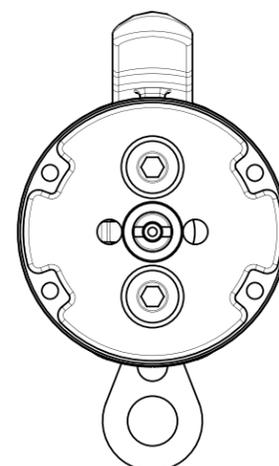
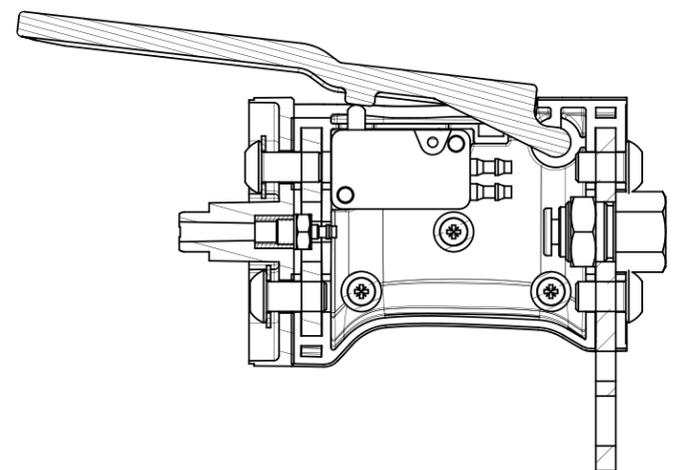
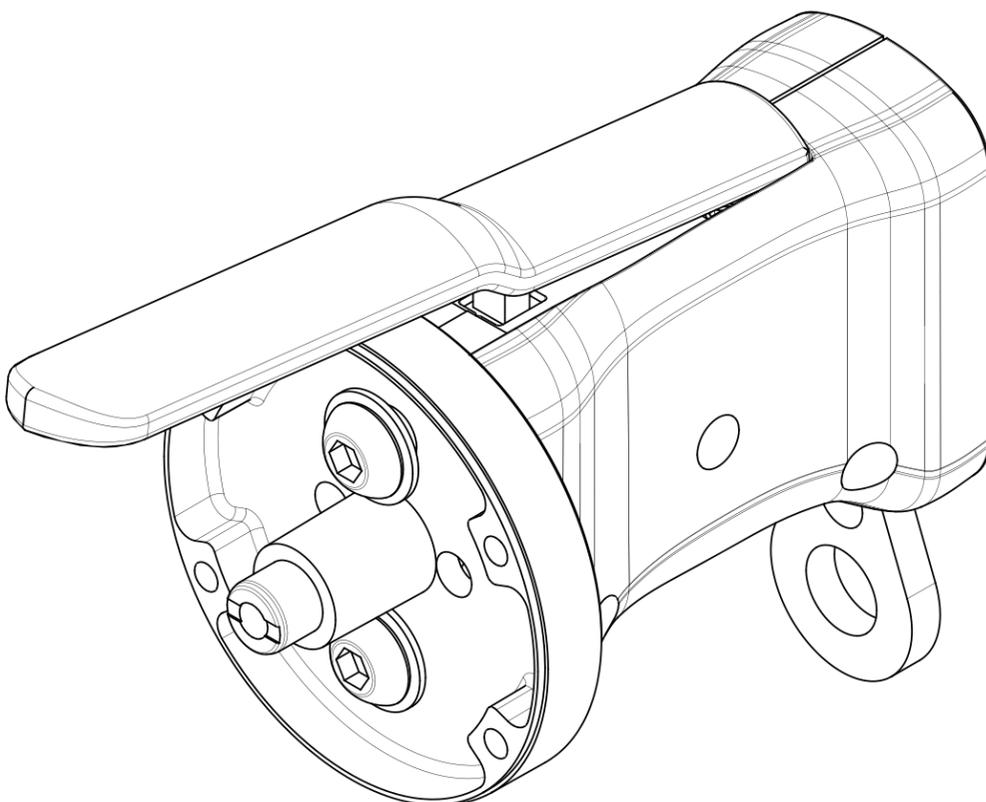
Body and handle for three models 3.3

The body and handle is the same for two models of pneumatic tool.

Triple Cylinder Body Assembly



Handle



Using the tool 4.1

The tool is designed to work with a specific hose clamp type and in certain circumstances a particular size range. The air supply to the tool must be set to suit the tool, hose clamp variant and size range.

Hose clamp tool is variant for:

- Clip clamps
- Ear clamps

The supply pressure is 6 bar.

Once the tool is set for the appropriate air pressure, offer the tool to the relevant Hose clamp.

Ensure that the head or ear of the hose clamp is located within the jaws of the tool. Once positioned correctly, operate the actuation lever on the tool to effect closure of the hose clamp. Release the lever and remove the tool from the fitted hose clamp.