# User Manual XGRIP N08QI



MASTERFIX PRODUCTS BV EUROPE

Maastricht-Airport The Netherlands

## **CONTENTS OF USER MANUAL NO8QI**

- 1 Area of application
- 2 Specifications and dimensions
- 3 Standard equipment
- 4 Safety instructions
- 5 Initial start-up
- 6 Description of the N08QI
  - 6.1 Operation
  - 6.2 Threaded mandrel, adapter and nose replacement
  - 6.3 Setting the stroke
- 7 Maintenance
  - 7.1 Daily maintenance
  - 7.2 Weekly maintenance
  - 7.3 Overhaul
  - 7.4 Adding oil
- 8 Parts list with general arrangement
- 9 Guarantee and service

Guarantee form

## 1 AREA OF APPLICATION

The N08QL riveter is intended for installing blind rivet nuts/bolts in the following materials and sizes:

Opmerking [\*1]:

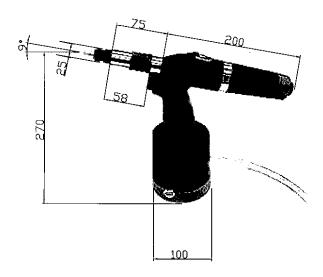
RIVET NUTS			RIVET BOLTS
aluminium	steel	stainless steel	all materials
M4	M4	M4	M4
M5	M5	M5	M5
M6	M6	M6	M6
M8	M8	M8	M8

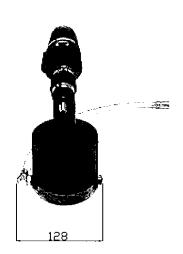
## 2 SPECIFICATIONS

Subject to technical alterations.

The N08QI is conform to the EC standard 98/37 EEC.

## **DIMENSIONS**





## 3 STANDARD EQUIPMENT FOR N08QI

- nose pieces:

- mandrels for rivet nuts

adapters for rivet bolts

- One oil refill kit comprising: one bottle hydraulic oil one 3 mm Allen key one filling syringe
- one user manual

M4 - M5 - M6 - M8

M4 - M5 - M6 - M8

M4 - M5 - M6 - M8

## **AVAILABLE ON DEMAND**

Nosepiece M3 Mandrel M3

#### 4 SAFETY INSTRUCTIONS

Anyone who operates or maintains the N08 riveter must first read this User Manual carefully, paying extra attention to the instructions below.

Never dismantle the tool without first having thoroughly studied the instructions given in this User Manual and applying them.

- Always use the tool in accordance with the specified safety instructions.
   Direct any queries regarding optimal and safe operation or use of the tool to Masterfix Products.
- The safety instructions must be made clear to all persons involved.
- Never connect the tool to any medium other than compressed air.
- Hold the air hose firmly when disengaging to prevent it from hurtling to and fro due to the escaping air.
- Use the tool only for the installation of blind rivet nuts/bolts. The tool must never be used for giving blows or impacting or as a hammer.
- Do not make any modification(s)/change(s). Any modifications to the tool or (supplied) parts and their consequences are completely outside the liability of Masterfix Products and are entirely the liability of the operator; any guarantee claim shall then be null and void.
  - Masterfix Products is always prepared to advise you with regard to different applications.
- The tool must be constantly maintained and examined/inspected at regular intervals.
   Maintenance shall be performed by staff trained for that purpose. Do not perform any maintenance before reading this User Manual.
   Do not hesitate to contact Masterfix Products if you should need training.
  - Always use the tool in accordance with the specified safety instructions. Direct any queries regarding optimal and safe operation or use of the tool to Masterfix Products.
  - The safety instructions must be made clear to all persons involved.
- Always shut off the air supply before replacing the mandrel/adapter or nose piece.
- Always disconnect the tool from the air supply before carrying out repairs or maintenance. Disconnect the tool in case of failure before investigating the reason.
- Never aim the tool at any person or object other than the material to be riveted.
- Adopt a stable position and location before operating the tool.
- The air discharge openings (at the bottom and back) must never be covered or blocked. Ensure that air hoses are in good condition and can withstand a minimum compressed air pressure of 10 bar.
- Never exceed the maximum air pressure of 7 bar.
- Always wear eye protection when using the riveter. Eye protection must be worn not only by the user but also by everyone at the working place.
- Prevent excessive contact with hydraulic oil which could produce a rash.
- To prevent accidental operation the trigger must never be touched when the tool is being relocated.
- Ensure that loose garments, ties, long hair, rags, etc. cannot be caught by the moving parts of the tool.
- Hearing protection is advised.

#### **5 INITIAL START-UP**

The tool must be connected to an air filter-/separator unit; this unit filters the compressed air to separate dirt and condensate.

A pressure regulator with a preferred setting of 6 bar (min. 5 bar, max. 7 bar) must be installed if the operating pressure of the compressed air exceeds (or might exceed) 7 bar.

Use dry and clean materials (hoses, couplings, fittings, etc.) to connect the tool to the filter/separator unit.

Check whether any leakage occurs anywhere in the compressed air supply. If so, replace the damaged hoses or coupling.

Check the compressed air supply pressure to the tool; this may be max. 7 bar. Drain the condensate from the filter/separator unit. Also check the dirt filter.

The riveter is supplied ready for use. The tool need not be filled with oil prior to initial startup.

The N08QI is supplied as standard with fitted M8 nose and threaded mandrel.

The N08QI is standard set at its minimum pressure adjustment.

#### 6 DESCRIPTION OF THE N08QI

The following can be found at the bottom of the tool:

- -Compressed air supply hose (0.5 m length, 6 mm ID), with union coupling (item 56, see fig. 6.1).
- -Pressure relief valve (item 48) acting as safety valve to prevent overloading of the tool. The valve opens if the compressed air pressure exceeds 7 bar.

You can see the pressure with the green indicator (item 48a)

- It is possible to fit the supply hose to the other side (at the location of the pressure relief valve). The pressure relief valve is then relocated to the supply hose connection.
- -Set screw for pressure adjustment (item 52).
- -Pressure indicator (item 45).
- -Oil level indicator (item 46).
- -Needle valve for time of return (item 72).

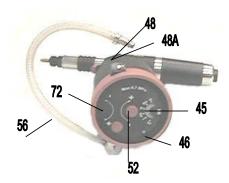


figure 6.1

User Manual XGRIP N08QI

#### 6.1 OPERATION

Fit the correct threaded mandrel/adapter (item 1,see chapter 8) and nose piece (item 2) to the tool (see section 6.2 for threaded mandrel/adapter or nose piece replacement). Set the nose piece. The nose piece is correctly set if the mandrel protrudes by one thread from the back of the nut (see section 6.2, item 7 for setting the nose piece). Connect the tool to the compressed air supply using the quick-action coupling. Ensure that the filter/separator unit is set at an operating pressure between 5 and 7 bar. Set the correct pressure. The pressure can be adjusted by the set screw (item 52) at the bottom of the tool (see section 6.3 for setting the pressure).





Figure 6.1.1

Figure 6.1.2

The N08QI is provided with a fully automatic air motor for screwing nuts/bolts on and off. First screw the nut/bolt one turn on the mandrel/adapter. By pushing the nut/bolt straight against the mandrel/adapter (see Fig. 6.1.1), the mandrel/adapter will start to rotate in clockwise direction to screw the nut/bolt on. Ensure that the collar of the nut/bolt is facing towards the nose piece. The rotation stops automatically when the nut/bolt hits the nose piece. Place the nut/bolt in the material. Be sure to use the correct hole size (consult the catalogue for the hole sizes to be used). The following rule of thumb applies: the hole size in the material is 0.1 mm larger than the outside diameter of the nut/bolt.

The nut/bolt is installed by operating the trigger. The mandrel/adapter automatically rotates anti-clockwise and comes off the nut/bolt when the trigger is released. The next nut/bolt can now be placed on the tool.

The time of anti-clockwise rotation can be set by turning the adjustment screw (item 72, see Fig. 6.1.2). By turning the screw clockwise the time of rotation is enlarged. By pushing the push button (item 34), extra anti-clockwise rotation is possible.

### 6.2 THREADED MANDREL, ADAPTER AND NOSE REPLACEMENT

You have the correct mandrel/adapter (item 1, see 6.2.1) if its threads correspond to that of the nut/bolt.

You have the correct nose piece (item 2) if it fits tightly round the thread of the mandrel or bolt.

Proceed as follows to replace a mandrel/adapter with nose piece:

Disconnect the tool from the compressed air supply.

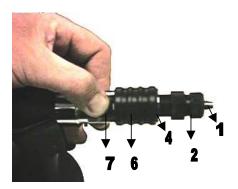


figure 6.2.1

- 2 Unscrew the lock nut of the nose piece (item 2) from the nose piece holder (item 4) (key SW 20).
- 3 Screw the nose piece with the lock nut right out of the nose piece holder. The lock nut

remains on the nose piece.

- 4 Push the protective sleeve (item 6) forward.
- 5 Push the security part (item 7) backwards.
- In this position, release the mandrel/adapter by turning it anti-clockwise.
- In this position, screw the selected mandrel/adapter until it stops by turning clockwise. You have the correct mandrel/adapter if its thread corresponds to that of the nut/bolt.
- Release the security part (item 7) and ensure that the retaining device covers the hexagon of the mandrel/adapter well.
- 9 Push the protective sleeve (item 6) backwards and secure it.
- Screw the relevant nose piece with the lock nut into the nose piece holder. You have the correct nose piece if it fits tightly round the thread of the mandrel or bolt.
- 11 Adjusting the nose piece (item 2).
  - A For nuts.

Screw a nut up to its collar against the nose piece on the mandrel and adjust the nose piece. The nose piece is set properly if the thread of the mandrel protrudes 1 thread from the back of the nut screwed on the mandrel. Retain the nose piece and lock it with the lock nut (key SW 20).

- B For bolts.
  - Connect the tool to the compressed air supply.
  - Screw the nose piece against the adapter. The air motor should not start running (if it does, unscrew the nose piece until it stops). Now unscrew the nose piece by another 1½ turns.
  - Disconnect the tool from the compressed air supply. Retain the nose piece and lock it with the lock nut.
- Replacement of the mandrel/adapter with nose piece is now completed. Then the riveter must be set at the correct pressure belonging to the nut/bolt and the clamping capacity (see section 6.3 setting the pressure).

## 6.3 SETTING THE PRESSURE

The pressure can be adjusted by the set screw (item 52 see Fig. 6.3.1) at the bottom of the tool. The tool is set at its minimum pressure when it leaves the factory.

Turn the set screw clockwise to increase the pressure. Turn the set screw anti-clockwise to reduce the pressure. When reducing the pressure, always operate the trigger to let the pressure release.

The set pressure can be read from the pressure indication (see Fig. 6.3.1).

For adjusting the pressure belonging to the nut/bolt:

- -first adjust to the minimum pressure and then slowly increase;
- -place a nut/bolt on the mandrel/adapter;
- -operate the trigger and increase the pressure by turning the set screw (item 52) clockwise until the nut/bolt deforms.



Figure 6.3.1

If problems should occur with the setting of the pressure, disconnect the tool from the compressed air supply, to release the tool from the pressure.

### **TESTING THE PRESSURE**

Checking the pressure setting in a field test is recommended. A number of blind riveting nuts or bolts are installed into the original material or a test plate for this purpose. This test plate must have the same thickness and hole diameter; also ensure that the test plate and the work piece are made of the same material.

## 7 MAINTENANCE OF THE N08QI

## 7.1 DAILY MAINTENANCE

- Check the mandrel/adapter for damage. The threads must not be damaged.
- Check the pressure setting (see section 6.3 for setting the pressure).
- Check if there is any leakage in the compressed air supply. If yes, replace the damaged hoses or couplings.
- Check the compressed air supply pressure; this may be max. 7 bar.
- Drain the condensate from the filter/separator unit. Also check the dirt filter.

#### 7.2 WEEKLY MAINTENANCE

Check the oil level. There may be insufficient oil if the stroke of the tool is insufficient for correct fitting of the nut/bolt. Add oil in that case (see section 7.4 adding oil).

## 7.3 OVERHAUL

Overhaul shall be performed after every 300,000 rivet nuts/bolts or once every 3 years. The tool is then completely dismantled and all seals and worn parts are replaced. We advise to have the overhaul performed by Masterfix Products.

#### 7.4 ADDING OIL

There may be insufficient oil if the stroke of the tool is too small for proper installation of nuts/bolts.

(First check whether the stroke setting is correct; see section 6.3 for setting the stroke). The oil level indicator (item 46) shows whether loss of oil has occurred. The tool has lost oil if the oil level indicator pin no longer protrudes.



Proceed as follows to add oil:

- 1. Keep the tool upright during all operations. Disconnect the tool from the air supply.
- 2. Unscrew the M4 cap screw (item 18) from the body (item 21) using the size 3 mm Allen key. Make sure the O-ring (item 19) remains in the hole.
- 3. Fill the (supplied) syringe with hydraulic oil (a bottle is also supplied with the tool).
- 4. Screw the filled syringe up to the O-ring in the hole. Then slowly inject the oil into the tool (ensure no air is injected). Adequate oil has been added as soon as resistance is sensed. The tool now has its optimal stroke again. The excess oil will flow back when the syringe is released if more oil is added than necessary.
- 5. Unscrew and remove the syringe from the body. Check whether the O-ring remains in the hole.
- 6. Screw the M4 cap screw into the hole using the size 3 mm Allen key.
- 7. Wipe off the excess oil.

## 8 PARTS LIST

		<u> </u>	
Item No.	Quantity	Description	
1	1	mandrel M4	
1	1	mandrel M5	
1	1	mandrel M6	
	1	mandrel M8	
1	1	adaptor M4	
1	1	adaptor M5	
1	1	adaptor M6	
1	1	adaptor M8	
2	1	anvil M4	
2	1	anvil M5	
2	1	anvil M6	
2	1	anvil M8	
3-6	1	front sleeve complete	
7	1	security part	
8	1	springholder	
9	1	spring	
10	1	Pin cylindrical 3,0 x 6	
11	1	Lock - nut	
12	1	o-ring 14.3/2.4, hydraulic plunger rod	
13	1	o-ring 20/1, front sleeve	
14	1	hydraulic plunger complete	
15	1	o-ring 18/2.2, hydraulic plunger rod	
16	1	lip seal 26 / 18-6, hydraulic plunger rod	
17	1	buffer ring, hydraulic plunger	
18	1	cap screw M4 x 8	
19	1	o-ring 4/1.5	
20	1	hanger	
21	1	hydraulic body	
22	1	lip seal 34 / 22-9,4, hydraulic piston	
23	1	guide ring 34/22/2.5 Teflon	
24	1	o-ring 28/3, hydraulic piston	
25	1	o-ring 36/2, rear screwed joint	
26	1	sleeve	
27	1	protective sleeve	
28	1	Pin cylindrical 4,0 x 10	
29	1	compression spring	
30	1	compression spring	
31	1	rear screwed joint	
32	1	ring for compression spring	
33	1	muffler	
34	1	push button	
35	1	lip seal 22/12-7, pneumatic plunger rod	
36	1	guide ring	
37	1	bottom ring	
38	1	pneumatic plunger	
39	1	pneumatic cylinder	
40	1	cover ring	

42 1 o-ring 82,62 / 3,52, pneumatic plunger  43 1 coupling for pressure gauge  44 1 o-ring 10/1.5  45 1 pressure gauge  46 1 oil level indicator  47 1 o-ring 10/1.5  48 1 pressure relief valve  49 1 pressure regulation valve  50 2 o-ring 18/1.5  51 1 retaining ring 6 DIN 471  52 1 Pression regulation screw  53 1 Covering  54 1 retaining ring  55 1 bottom ring  55 1 bottom ring  56 1 union coupling 90°  57 2 connecting bolt  58 2 copper washer for connecting bolt  59 2 M6 cap nut for connecting bolt  60 1 bolt below valve pin  61 1 o-ring 4/2, valve pin  62 1 sleeve for needle valve  63 1 muffler  64 2 o-ring 4/2  65 3 Adjusting ring diameter 14  66 3 o-ring 10/2  67 1 valve pin  68 1 Pin cylindrical 3,0 x 20  69 1 eccentric trigger  70 1 trigger  71 0-ring 4/1, valve pin  72 1 Needle valve pin  73 1 cap screw M6 x 16  74 1 o-ring 30/2  77 1 compression spring, valve pin  78 1 o-ring 7/1.2  1 oli syringe  1 bottle with oil, 30 cc	41	1	o-ring 14/2		
43         1         coupling for pressure gauge           44         1         o-ring 10/1.5           45         1         pressure gauge           46         1         oil level indicator           47         1         o-ring 10/1.5           48         1         pressure regulation valve           50         2         o-ring 18/1.5           51         1         retaining ring 6 DIN 471           52         1         Pression regulation screw           53         1         Covering           54         1         retaining ring           55         1         bottom ring           56         1         union coupling 90°           57         2         connecting bolt           58         2         copper washer for connecting bolt           59         2         M6 cap nut for connecting bolt           60         1         bolt below valve pin           61         1         o-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         o-ring 10/2           67         1         valv			· ·		
44         1         o-ring 10/1.5           45         1         pressure gauge           46         1         oil level indicator           47         1         o-ring 10/1.5           48         1         pressure regulation valve           49         1         pressure regulation valve           50         2         o-ring 18/1.5           51         1         retaining ring 6 DIN 471           52         1         Pression regulation screw           53         1         Covering           54         1         retaining ring           55         1         bottom ring           56         1         union coupling 90°           57         2         connecting bolt           58         2         copper washer for connecting bolt           59         2         M6 cap nut for connecting bolt           60         1         bolt below valve pin           61         1         o-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         o-ring 4/2           65         3         Adjusti					
45         1         pressure gauge           46         1         oil level indicator           47         1         o-ring 10/1.5           48         1         pressure relief valve           49         1         pressure regulation valve           50         2         o-ring 18/1.5           51         1         retaining ring 6 DIN 471           52         1         Pression regulation screw           53         1         Covering           54         1         retaining ring           55         1         bottom ring           56         1         union coupling 90°           57         2         connecting bolt           58         2         copper washer for connecting bolt           60         1         bolt below valve pin           61         1         o-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         o-ring 4/2           65         3         Adjusting ring diameter 14           66         3         o-ring 10/2           67         1         valve pin		-			
46         1         oil level indicator           47         1         o-ring 10/1.5           48         1         pressure relief valve           49         1         pressure regulation valve           50         2         o-ring 18/1.5           51         1         retaining ring 6 DIN 471           52         1         Pression regulation screw           53         1         Covering           54         1         retaining ring           55         1         bottom ring           55         1         bottom ring           56         1         union coupling 90°           57         2         connecting bolt           58         2         copper washer for connecting bolt           59         2         M6 cap nut for connecting bolt           60         1         bolt below valve pin           61         1         o-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         o-ring 4/2           65         3         Adjusting ring diameter 14           66         3         o			ü		
47         1         o-ring 10/1.5           48         1         pressure relief valve           49         1         pressure regulation valve           50         2         o-ring 18/1.5           51         1         retaining ring 6 DIN 471           52         1         Pression regulation screw           53         1         Covering           54         1         retaining ring           55         1         bottom ring           56         1         union coupling 90°           57         2         connecting bolt           58         2         copper washer for connecting bolt           59         2         M6 cap nut for connecting bolt           60         1         bolt below valve pin           61         1         o-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         o-ring 4/2           65         3         Adjusting ring diameter 14           66         3         o-ring 10/2           67         1         valve pin           68         1         Pin cylindr					
48         1         pressure relief valve           49         1         pressure regulation valve           50         2         0-ring 18/1.5           51         1         retaining ring 6 DIN 471           52         1         Pression regulation screw           53         1         Covering           54         1         retaining ring           55         1         bottom ring           56         1         union coupling 90°           57         2         connecting bolt           58         2         copper washer for connecting bolt           59         2         M6 cap nut for connecting bolt           60         1         bolt below valve pin           61         1         0-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         0-ring 4/2           65         3         Adjusting ring         diameter 14           66         3         0-ring 10/2           67         1         valve pin           68         1         Pin cylindrical 3,0 x 20           69         1<					
49         1         pressure regulation valve           50         2         o-ring 18/1.5           51         1         retaining ring 6 DIN 471           52         1         Pression regulation screw           53         1         Covering           54         1         retaining ring           55         1         bottom ring           56         1         union coupling 90°           57         2         connecting bolt           58         2         copper washer for connecting bolt           59         2         M6 cap nut for connecting bolt           60         1         bolt below valve pin           61         1         o-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         o-ring 4/2           65         3         Adjusting ring         diameter 14           66         3         o-ring 10/2           67         1         valve pin           68         1         Pin cylindrical 3,0 x 20           69         1         eccentric trigger           70         1		-			
50         2         o-ring 18/1.5           51         1         retaining ring 6 DIN 471           52         1         Pression regulation screw           53         1         Covering           54         1         retaining ring           55         1         bottom ring           56         1         union coupling 90°           57         2         connecting bolt           58         2         copper washer for connecting bolt           59         2         M6 cap nut for connecting bolt           60         1         bolt below valve pin           61         1         o-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         o-ring 4/2           65         3         Adjusting ring         diameter 14           66         3         o-ring 10/2           67         1         valve pin           68         1         Pin cylindrical 3,0 x 20           69         1         eccentric trigger           70         1         trigger           71         1         o-rin					
51         1         retaining ring 6 DIN 471           52         1         Pression regulation screw           53         1         Covering           54         1         retaining ring           55         1         bottom ring           56         1         union coupling 90°           57         2         connecting bolt           58         2         copper washer for connecting bolt           59         2         M6 cap nut for connecting bolt           60         1         bolt below valve pin           61         1         o-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         o-ring 4/2           65         3         Adjusting ring diameter 14           66         3         o-ring 10/2           67         1         valve pin           68         1         Pin cylindrical 3,0 x 20           69         1         eccentric trigger           70         1         trigger           71         1         o-ring 4/1, valve pin           72         1         Needle valve f					
52         1         Pression regulation screw           53         1         Covering           54         1         retaining ring           55         1         bottom ring           55         1         union coupling 90°           57         2         connecting bolt           58         2         copper washer for connecting bolt           60         1         bolt below valve pin           61         1         o-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         o-ring 4/2           65         3         Adjusting ring         diameter 14           66         3         o-ring 10/2           67         1         valve pin           68         1         Pin cylindrical 3,0 x 20           69         1         eccentric trigger           70         1         trigger           71         1         o-ring 4/1, valve pin           72         1         Needle valve for time of return           73         1         cap screw M6 x 16           74         1         o-r					
53         1         Covering           54         1         retaining ring           55         1         bottom ring           56         1         union coupling 90°           57         2         connecting bolt           58         2         copper washer for connecting bolt           59         2         M6 cap nut for connecting bolt           60         1         bolt below valve pin           61         1         o-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         o-ring 4/2           65         3         Adjusting ring         diameter 14           66         3         o-ring 10/2           67         1         valve pin           68         1         Pin cylindrical 3,0 x 20           69         1         eccentric trigger           70         1         trigger           71         1         o-ring 4/1, valve pin           72         1         Needle valve for time of return           73         1         cap screw M6 x 16           74         1 <t< td=""><td></td><td></td><td colspan="3">5 5</td></t<>			5 5		
54         1         retaining ring           55         1         bottom ring           56         1         union coupling 90 °           57         2         connecting bolt           58         2         copper washer for connecting bolt           59         2         M6 cap nut for connecting bolt           60         1         bolt below valve pin           61         1         o-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         o-ring 4/2           65         3         Adjusting ring         diameter 14           66         3         o-ring 10/2           67         1         valve pin           68         1         Pin cylindrical 3,0 x 20           69         1         eccentric trigger           70         1         trigger           71         1         o-ring 4/1, valve pin           72         1         Needle valve for time of return           73         1         cap screw M6 x 16           74         1         o-ring 4/2,2, valve pin           75         1			<u> </u>		
55 1 bottom ring 56 1 union coupling 90 ° 57 2 connecting bolt 58 2 copper washer for connecting bolt 59 2 M6 cap nut for connecting bolt 60 1 bolt below valve pin 61 1 o-ring 4/2, valve pin 62 1 sleeve for needle valve 63 1 muffler 64 2 o-ring 4/2 65 3 Adjusting ring diameter 14 66 3 o-ring 10/2 67 1 valve pin 68 1 Pin cylindrical 3,0 x 20 69 1 eccentric trigger 70 1 trigger 70 1 trigger 71 1 o-ring 4/1, valve pin 72 1 Needle valve for time of return 73 1 cap screw M6 x 16 74 1 o-ring 30/2 77 1 compression spring, valve pin 78 1 o-ring 7/1.2 1 oil syringe					
56         1         union coupling 90 °           57         2         connecting bolt           58         2         copper washer for connecting bolt           60         1         bolt below valve pin           61         1         o-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         o-ring 4/2           65         3         Adjusting ring diameter 14           66         3         o-ring 10/2           67         1         valve pin           68         1         Pin cylindrical 3,0 x 20           69         1         eccentric trigger           70         1         trigger           71         1         o-ring 4/1, valve pin           72         1         Needle valve for time of return           73         1         cap screw M6 x 16           74         1         o-ring 30/2           77         1         compression spring, valve pin           78         1         o-ring 7/1.2           1         oil syringe					
57         2         connecting bolt           58         2         copper washer for connecting bolt           59         2         M6 cap nut for connecting bolt           60         1         bolt below valve pin           61         1         o-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         o-ring 4/2           65         3         Adjusting ring diameter 14           66         3         o-ring 10/2           67         1         valve pin           68         1         Pin cylindrical 3,0 x 20           69         1         eccentric trigger           70         1         trigger           71         1         o-ring 4/1, valve pin           72         1         Needle valve for time of return           73         1         cap screw M6 x 16           74         1         o-ring 30/2           77         1         compression spring, valve pin           78         1         o-ring 7/1.2           1         oil syringe		1	<u> </u>		
58         2         copper washer for connecting bolt           59         2         M6 cap nut for connecting bolt           60         1         bolt below valve pin           61         1         o-ring 4/2, valve pin           62         1         sleeve for needle valve           63         1         muffler           64         2         o-ring 4/2           65         3         Adjusting ring diameter 14           66         3         o-ring 10/2           67         1         valve pin           68         1         Pin cylindrical 3,0 x 20           69         1         eccentric trigger           70         1         trigger           71         1         o-ring 4/1, valve pin           72         1         Needle valve for time of return           73         1         cap screw M6 x 16           74         1         o-ring 30/2           77         1         compression spring, valve pin           78         1         o-ring 7/1.2           1         oil syringe			. •		
59 2 M6 cap nut for connecting bolt 60 1 bolt below valve pin 61 1 o-ring 4/2, valve pin 62 1 sleeve for needle valve 63 1 muffler 64 2 o-ring 4/2 65 3 Adjusting ring diameter 14 66 3 o-ring 10/2 67 1 valve pin 68 1 Pin cylindrical 3,0 x 20 69 1 eccentric trigger 70 1 trigger 70 1 trigger 71 1 o-ring 4/1, valve pin 72 1 Needle valve for time of return 73 1 cap screw M6 x 16 74 1 o-ring 4/2,2, valve pin 75 1 o-ring 30/2 77 1 compression spring, valve pin 78 1 o-ring 7/1.2 1 oil syringe			ū		
60					
61	59	2	M6 cap nut for connecting bolt		
62		1			
63	61	1			
64 2 o-ring 4/2 65 3 Adjusting ring diameter 14 66 3 o-ring 10/2 67 1 valve pin 68 1 Pin cylindrical 3,0 x 20 69 1 eccentric trigger 70 1 trigger 71 1 o-ring 4/1, valve pin 72 1 Needle valve for time of return 73 1 cap screw M6 x 16 74 1 o-ring 4/2,2, valve pin 75 1 o-ring 30/2 77 1 compression spring, valve pin 78 1 o-ring 7/1.2 1 oil syringe	62	1	sleeve for needle valve		
65 3 Adjusting ring diameter 14 66 3 o-ring 10/2 67 1 valve pin 68 1 Pin cylindrical 3,0 x 20 69 1 eccentric trigger 70 1 trigger 71 1 o-ring 4/1, valve pin 72 1 Needle valve for time of return 73 1 cap screw M6 x 16 74 1 o-ring 4/2,2, valve pin 75 1 o-ring 30/2 77 1 compression spring, valve pin 78 1 o-ring 7/1.2 1 oil syringe	63	1	muffler		
66 3 o-ring 10/2 67 1 valve pin 68 1 Pin cylindrical 3,0 x 20 69 1 eccentric trigger 70 1 trigger 71 1 o-ring 4/1, valve pin 72 1 Needle valve for time of return 73 1 cap screw M6 x 16 74 1 o-ring 4/2,2, valve pin 75 1 o-ring 30/2 77 1 compression spring, valve pin 78 1 o-ring 7/1.2 1 oil syringe	64	2	o-ring 4/2		
67	65	3	Adjusting ring diameter 14		
68       1       Pin cylindrical 3,0 x 20         69       1       eccentric trigger         70       1       trigger         71       1       o-ring 4/1, valve pin         72       1       Needle valve for time of return         73       1       cap screw M6 x 16         74       1       o-ring 4/2,2, valve pin         75       1       o-ring 30/2         77       1       compression spring, valve pin         78       1       o-ring 7/1.2         1       oil syringe	66	3	o-ring 10/2		
69         1         eccentric trigger           70         1         trigger           71         1         o-ring 4/1, valve pin           72         1         Needle valve for time of return           73         1         cap screw M6 x 16           74         1         o-ring 4/2,2, valve pin           75         1         o-ring 30/2           77         1         compression spring, valve pin           78         1         o-ring 7/1.2           1         oil syringe	67	1	valve pin		
70	68	1	Pin cylindrical 3,0 x 20		
71	69	1	eccentric trigger		
72       1       Needle valve for time of return         73       1       cap screw M6 x 16         74       1       o-ring 4/2,2, valve pin         75       1       o-ring 30/2         77       1       compression spring, valve pin         78       1       o-ring 7/1.2         1       oil syringe	70	1	trigger		
73	71	1	o-ring 4/1, valve pin		
74 1 o-ring 4/2,2, valve pin 75 1 o-ring 30/2 77 1 compression spring, valve pin 78 1 o-ring 7/1.2 1 oil syringe	72	1	Needle valve for time of return		
75	73	1	cap screw M6 x 16		
77 1 compression spring, valve pin 78 1 o-ring 7/1.2 1 oil syringe	74	1	· ·		
77 1 compression spring, valve pin 78 1 o-ring 7/1.2 1 oil syringe	75	1	· ·		
78 1 o-ring 7/1.2 1 oil syringe	77	1			
1 oil syringe	78	1			
		1	5		
		1			
1 size 3 mm Allen key		1			

#### 9 GUARANTEE AND SERVICE

The user will not be able to claim under guarantee if he does not observe the instructions specified in this User Manual.

A guarantee period of 6 months applies, starting from the date of purchase.

The liability of Masterfix Products for this riveter and/or any of its defective parts shall be limited to their replacement, the changing of wear and tear parts (like mandrels, sealings etc) is excluded. In no case shall the liability exceed the invoiced value of the supplied items. Masterfix Products shall not be liable under any circumstances for damage or costs occurring due to inexpert use of the tool and repair or replacement of parts performed by anyone other than Masterfix Products itself.

To be able to make any guarantee claim, the guarantee form must be completed and sent to Masterfix Products (see last page of the User Manual for guarantee form).

Maintenance shall be performed in accordance with the instructions solely by technical persons qualified for the purpose.

It is advisable to consult Masterfix Products for advice on repairs or to present the tool for repair to Masterfix Products.

MASTERFIX PRODUCTS B.V. EUROPE

P.O. Box 21 6190 AA Beek The Netherlands Europalaan 12 6199 AB Maastricht-Airport

Tel: +31 (0)43 350 84 84 Fax: +31 (0)43 350 84 88

# **GUARANTEE FORM**

	MASTERFIX PRODUCTS BV EUROPE P.O. BOX 21 6190 AA Beek The Netherlands	
То	be completed on purchase and sent to Mas	terfix Products B.V.
Th	s Masterfix XGRIP N08QI riveter Nr	
wa	s sold to:	
S	tamp/address buyer:	Stamp/address vendor:
Da	te Signature	of sales person

## EC-DECLARATION OF CONFORMITY FOR MACHINERY

We

MASTERFIX PRODUCTS BV EUROPE Europalaan 12 6199 AB Maastricht-Airport The Netherlands

herewith declare that the product

type: XGRIP N08QI pneumatic-hydraulic riveter application: blind rivet nuts and bolts all materials M3 - M8

which this declaration refers to, is in conformity with the provisions of the regulations EC standard 98/37 EEC.

The Netherlands, Maastricht-Airport 29-08-2001

J.M.E.L. Aarts



#### WWW.MASTERFIX.COM

### The Netherlands (Head Office)

Masterfix Products b.v. Europalaan 12 6199 AB Maastricht Airport Tel. +31-43-350 84 84 Fax +31-43-350 84 88

E-Mail: r.pisters@masterfix.com

## Germany

Europalaan 12 6199 AB Maastricht Airport Tel. +31-43-350 84 84 Fax +31-43-350 84 88

E-Mail: m.smeets@masterfix.com

## Polen

Masterfix Poland ul. Daleka 16 60-124 Poznan Poland Tel. +48-61-86 66 297/ 376 Fax +48-61-86 65 733 E-Mail: n.dziedzic@masterfix.com

#### **United Kingdom**

Masterfix Products UK Ltd. Units 4a,b& d, Ring Road Zone 2, Burntwood Business Park Burntwood Staffordshire WS7 3JQ Great Britain Tel. +44-1543-686 989 Fax +44-1543-675 822 E-Mail: k.johal@masterfix.com

## Spain

Black & Decker Ibérica, S.C.A **Business Unit Masterfix** Ctra. M-300, Km 29,700 28802 Alcalá de Henares Madrid, España Teléfono +34-91-883 57 30 Fax +34-91-880 87 20 E-mail: d.gomez@masterfix.com

17