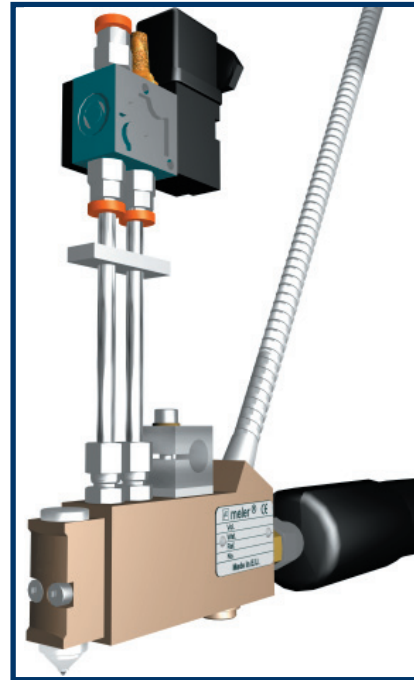
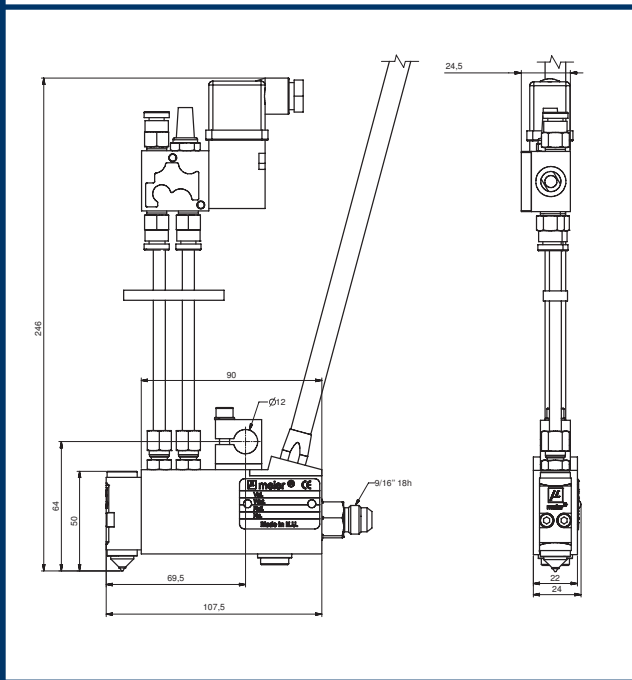


MICROPRECISION GUN

Reliability, precision and speed in a small space

F

DIMENSIONS



PRODUCT DESCRIPTION

MICROPRECISION GUN

Based on 'meler' microprecision module technology, it is small, robust and mechanically reliable.

- Total absence of drips and leaks when applying lines or spots. Clean cut.
- 'Dual effect' activation exclusive to 'meler' guns.
- Recommended for rapid high-precision machines, with production speed variations and limited space for gun installation.
- High speed and pressure not limited by viscosity of the hot-melt or distance from the target.
- Single version with one microprecision module. This technology is not applicable to multiple module guns.
- Filter incorporated. It can be replaced without dismantling the hose.

MICROPRECISION MODULE

Original design patented by 'meler', with offset pressure chambers providing very high cycle speeds, total tightness, absence of leaks. The working life of microprecision modules is longer than others based on conventional technology.

- Application of any hot-melt viscosity at any height, with no impurities or obstructions.
- Controlled by the 'meler' 'PC Star', it combines electric control speed (1 ms) with the force of a pneumatic opening system, applying points and lines at any viscosity at a very high speed and at a distance.
- Cycle time required for spot application: 2.9 ms (20,000 cpm)
- Actual operating application: over 8,500 spots per minute.
- Large range of spot diameters, from 0.25 to 0.80 mm.
- Two injection modules version: with or without nozzle included.

meler



Technical Sheet
FT2029/1-GB
0107 ©

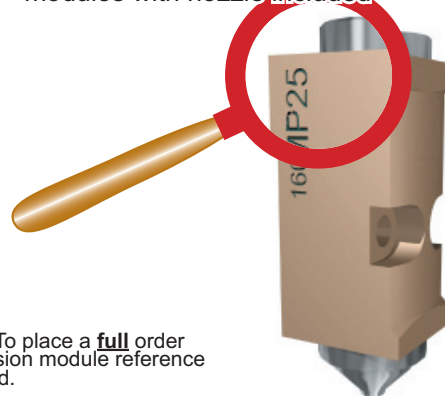
MICROPRECISION GUN



PRODUCTS RANGE

103500010	Microprecision gun with 110 mm pipe
103500020	Microprecision gun with 55 mm pipe
106100010	Microprecision module 0.25
106100020	Microprecision module 0.30
106100030	Microprecision module 0.35
106100040	Microprecision module 0.40
106100050	Microprecision module 0.45
106100060	Microprecision module 0.50
106100070	Microprecision module 0.60
106100080	Microprecision module 0.70
106100090	Microprecision module 0.80
106100140	Microprecision module without nozzle
112000010	Complete rapid connection solenoid valve 4/2 24dc 12.7
112000030	Full solenoid dots kit.

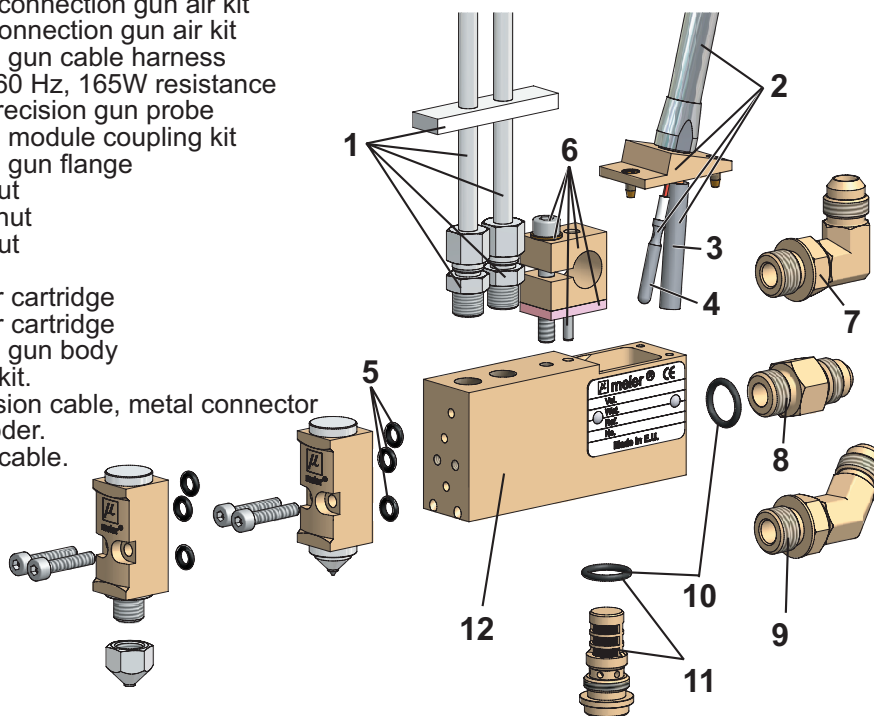
Nozzle diameter identification for modules with nozzle included



Note: the microprecision gun is supplied **without** the microprecision module or the solenoid. To place a **full** order for a gun, please indicate all the references: the microprecision gun reference, the microprecision module reference with or without nozzle, the nozzle reference if it is necessary and the reference for the solenoid.

SPARE PARTS

1	150040130	110 mm rapid connection gun air kit
1	150042020	55 mm rapid connection gun air kit
2	150040070	Microprecision gun cable harness
3	150041960	230 V AC, 50/60 Hz, 165W resistance
4	150040140	Pt-100 microprecision gun probe
5	150040120	Microprecision module coupling kit
6	150041980	Microprecision gun flange
7	20010000	90° coupling nut
8	20030000	Short straight nut
9	20020000	45° coupling nut
11	20200000	nut gasket
12	26000023	100 mesh filter cartridge
12	26000024	200 mesh filter cartridge
13	150042010	Microprecision gun body
	150060030	Solenoid dots kit.
	16130001	3-metre extension cable, metal connector photocell/encoder.
	150000010	Solenoid dots cable.



TECHNICAL FEATURES

Operating temperature	up to 230°C (maximum)
Temperature precision	± 0.5°C
Voltage	230 V AC, 50/60 Hz
Heating power	165 W
Maximum hydraulic pressure	100 bar
Filter	100 mesh (standard) included in gun
Recommended air pressure	6 bar
Solenoid valve voltage	24 V DC
Pneumatic connection	fast plug-in with automatic extraction
Operating speed	> 8,500 spots/min
Open/close time	2.9 ms
Assembly flange	Ø 12 mm bar
Output diameters	0.25 to 0.80 mm
Weight	720 g. including solenoid valve and module

MICROPRECISION GUN

Reliability, precision and speed in a small space

F

INSTALLATION AND MAINTENANCE

A. Installation:

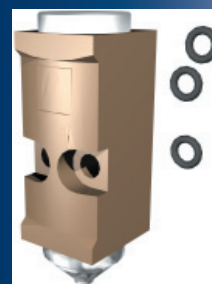
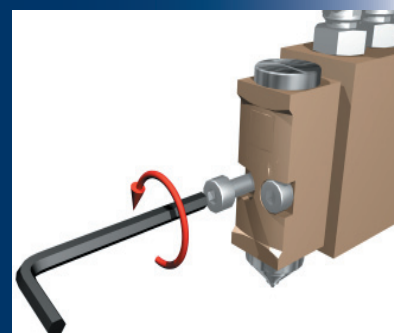
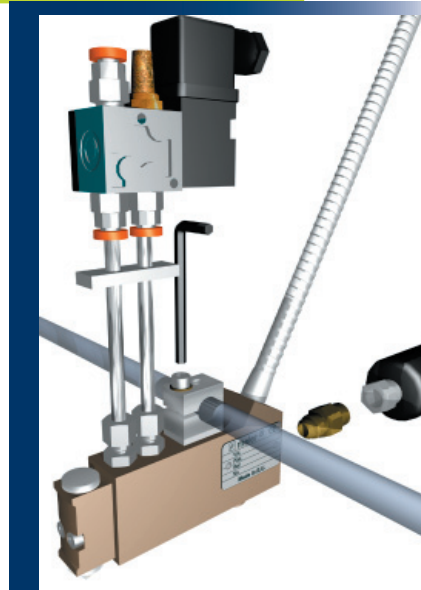
1. Secure the gun to the support with the $\varnothing 12$ bar flange (4 mm Allen key).
2. Connect the gun connector to the hose and select operating temperature.
3. Connect the hose to the gun with the coupling nut (spanners 17 and 19).
4. Connect the air supply with exterior $\varnothing 6$ pneumatic tube.
5. Connect the solenoid valve at the correct voltage.

B. Filter replacement:

1. Eliminate air pressure.
2. Drain the gun to remove residual pressure.
3. Twist off the filter cartridge with the short part of the 6 mm Allen key to prevent adhesive falling on your hands.
4. Replace the cartridge by a new one.
5. Clean the gun housing and thread and install the filter cartridge.
6. Pressurise again.

C. Microprecision module replacement (or damage o-rings replacement):

1. Eliminate air pressure.
2. Drain the gun to remove residual pressure.
3. Eliminate air pressure from the solenoid valve.
4. Unscrew the module screws with the 3 mm Allen key. Some adhesive will flow from the gun. Prevent it from reaching the air holes in the module or the gun!
5. Clean the gun housing and surface. If you are only replacing the couplings, install them in the module.
6. Install the new module (or the original module, if you have changed the couplings) and tighten with 3 mm Allen key.
7. Pressurise the solenoid valve and module again.



meler®

tüv
CERT
DIN EN ISO 9001:2000
Certificado N° 01 100 058036



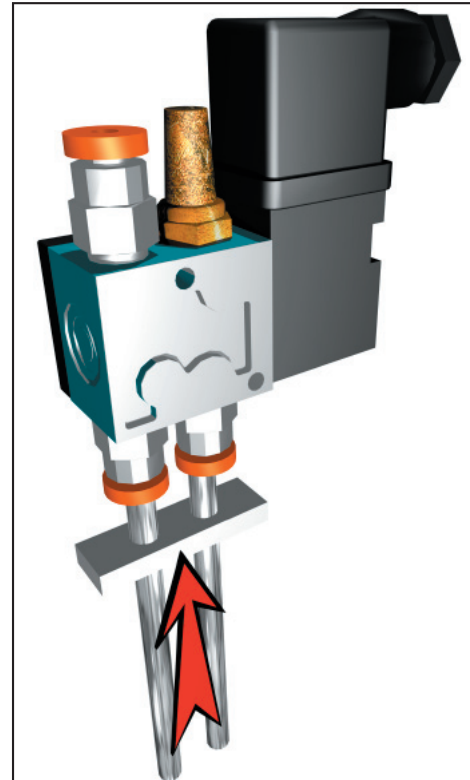
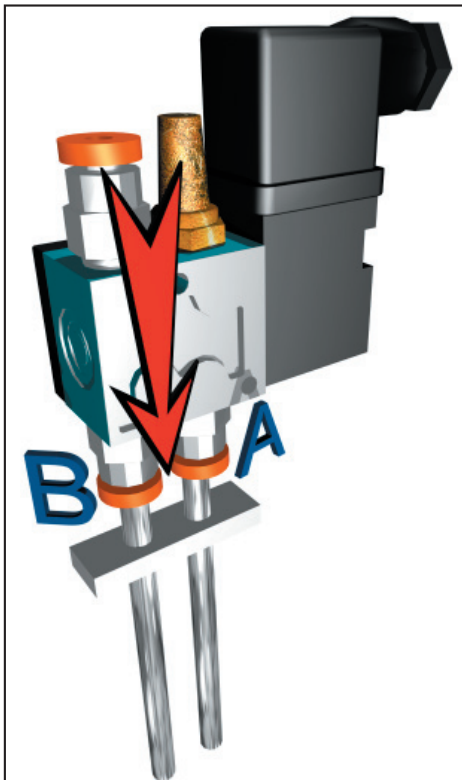
¡Danger! Handling certain components can involve the risk of burns, splashes or electrocution. High temperatures and pressure values can cause serious harm to the users of this equipment. Always use appropriate protection.

Technical Sheet
FT2029/2-GB
0107 ©

INSTALLATION AND MAINTENANCE

D. Solenoid valve replacement:

1. Eliminate air pressure from the solenoid valve.
2. Disconnect the solenoid valve supply tube.
3. Disconnect the coil's electric connection.
4. Remove by simultaneously pressing the solenoid valve downwards and its extractor upwards (by pressing on the valve).
5. Put the extractor back on the two tubes and reinsert the solenoid valve, pressing lightly into place.



The solenoid valve should be installed with its output coupling (letter 'B') aligned with the connection to the tube closest to the module. Thus the module remains closed when the solenoid valve is not operating. The module opens when the solenoid valve is activated, for the application of adhesive.

6. Put the supply tube back in place, repressurise and reconnect the coil.

NOTE: The air tubes must be parallel and the same length for the extraction system to work properly. Do not manipulate or bend these tubes. The length defined in the design also ensures that the gun temperature will not affect the solenoid valve. If you change the length this could reduce the working life of the equipment or even destroy it