

ARION HOSES.

EMPOWERING HOSES

INSTALLATION TECHNICAL GUIDE



Published by:

Focke Meler Gluing Solutions, S. A.

Pol. Arazuri-Orkoien, c/B, n°3 A E-31170 Arazuri - Navarra - Spain Phone: +34 948 351 110 info@meler.eu - www.meler.eu

Focke Group



Edition November 2021

© Copyright by Focke Meler

All rights reserved. Its reproduction, diffusion or use by electronic or other means of all or any part of this document without the express authorization of its owner is strictly prohibited.

The specifications and information contained in this manual may be modified without prior notice.

The official language of this manual is only the English language. The remaining versions of the manual in other languages are mere translations without any official value or efficacy. In case of discrepancies or contradictions between the English version of the manual and any other version of the manual written in another language, the English version will prevail.

TABLE OF CONTENTS

| 1. SAFETY GUIDELINES | 1-1 |
|--|-----|
| GENERAL | 1-1 |
| SYMBOLS | 1-1 |
| MECHANICAL COMPONENTS | 1-2 |
| ELECTRICAL COMPONENTS | 1-2 |
| HYDRAULIC COMPONENTS | 1-2 |
| PNEUMATIC COMPONENTS | 1-2 |
| THERMAL COMPONENTS | 1-3 |
| MATERIALS | 1-3 |
| | |
| INTENDED USE | 1-4 |
| LIMITED USE | 1-4 |
| 2. DESCRIPTION | 2-1 |
| GENERAL FEATURES | 2-1 |
| HOSE RANGES DESCRIPTION | 2-2 |
| 1. ARION ESSENTIAL - Standard hose | 2-2 |
| 2. ARION HANDY - Manual hose | 2-2 |
| 3. ARION VERSA - Outer Ø30mm | 2-3 |
| 4. ARION AKUA - Waterproof hose | 2-3 |
| 5. ARION CIRCLE - Removal core hose | 2-4 |
| 6. ARION RHYTHM - Dynamic hose | 2-4 |
| 7. ARION QUARZ – Reinforced mesh | 2-5 |
| 8. ARION INFERNO - High temperatura hose | 2-5 |
| 9. ARION POWER - High pressure | 2-6 |
| 10. ARION BOLD – Super high pressure | 2-6 |
| 11. ARION INFINITY - Adhesive care hose | 2-7 |

| HOSES THREADS | 2-7 |
|--|------|
| CONNECTORS TYPE CODIFICATION | 2-8 |
| 3. HOSES SETUP AND CONNECTION | 2-13 |
| IMPORTANT! | 2-13 |
| CONNECTING A NEW HOSE | 2-13 |
| REMOVING A USED HOSE | 2-14 |
| CONNECTING A USED HOSE AGAIN | 2-14 |
| GENERAL CONNECTION TIPS | 2-15 |
| HOSE INSTALLATION IN FIXED STRUCTURE. MANUAL APPLICATION | 2-17 |
| HOSE INSTALLATION IN ROBOT | 2-18 |
| REMOVABLE CORE HOSE REPLACE | 2-19 |
| ACCESSORIES | 2-20 |

1. SAFETY GUIDELINES

GENERAL

The information contained in this section applies not only to everyday equipment operation, but also to any procedure carried out on it, whether for preventive maintenance or in the case of repairs and the replacement of worn out parts.

It is very important to observe the safety warnings in this manual at all times. Failure to do so may result in personal injury and/or damage to the equipment or the rest of the installation.

Before beginning work on the equipment, read this manual carefully, and in case of any doubt, contact our Technical Service Center. We are available for any clarification that you might need.

Keep manuals in perfect condition and within reach of personnel that use the equipment and perform maintenance on it.

Also provide necessary safety material: appropriate clothing, footwear, gloves and safety glasses.

In all cases, observe local regulations regarding risk prevention and safety.

SYMBOLS

The symbols used on both the melter/applicator equipment and in this manual always represent the type of risk we are exposed to. Failure to abide by a warning signal may result in personal injury and/or damage to the equipment or the rest of the installation.

Warning: Risk of electrical shock. Carelessness may produce injury or death.

Warning: Hot zone with high temperatures. Risk of burns. Use thermal protective equipment.

Warning: System under pressure. Risk of burns or particle projection. Use thermal protective equipment and glasses.

Warning: Important information for the correct use of the system. May include one or several of the previous hazards, and therefore must be kept in mind to avoid damage and injury.

Warning: Dangerous area. Risk of entrapment. Carelessness may produce injury or death.

















MECHANICAL COMPONENTS





The hot-melt installation, which is installed to this device, requires moving parts that can cause damage. Use the equipment correctly, and do not remove the safety guards while the equipment is in operation; prevent the risk of possible entrapment due to moving mechanical parts.

<u>Do not use</u> the equipment if the safety devices are not in place or appear to be inadequately installed.

For maintenance or repair operations, stop the movement of moveable parts by turning off the main switch.

The device has no moving mechanical parts, so it does not pose risks to consider in this section.

ELECTRICAL COMPONENTS





The system works with single-phase or three-phase current of a certain power. Never handle the equipment with the power connected, as this may result in powerful electrical shocks.

The installation must be correctly grounded.

The installation's power cable conductors must match the required electric current and voltage.

Periodically inspect the cables to check for crushing, wear and tear, as well as to prevent tripping and falls as a result of their placement.

Although the system meets EMC requirements, it is inadvisable to use devices that transmit high levels of radiation, i.e., mobile phones or soldering equipment in their vecinity.

HYDRAULIC COMPONENTS



As this is a pressurized system, precautions related to this type of equipment must be observed.

Before each operation, <u>always make sure that the adhesive circuit is</u> <u>completely free of pressure</u>. There is a high risk of hot particle projection, along with the corresponding danger of burns.

Use caution with the residual pressure that may remain in the hoses when the adhesive cools. When reheated, there is a risk of hot particle projection if the outputs are left open.

PNEUMATIC COMPONENTS



Some equipment uses compressed air to 6 bar pressure. Before any manipulation, please ensure that the circuit has lost fully air pressure. The risk of projection of particles at high speed can cause injury to a certain severity.

Extreme precautions with the residual pressure that could be contained in the circuit, before disconnecting any pneumatic feeding tube.

THERMAL COMPONENTS

The entire system works with temperatures that can exceed 200°C (392°F). The equipment must be operated using adequate protection (clothing, footwear, gloves and protective glasses) that completely cover exposed parts of the body.

Keep in mind that, due to the high temperatures reached, the heat does not dissipate immediately, even when the power (in this case, electric) source is disconnected. Therefore, use caution, even with the adhesive itself. It may remain very hot, even in a solid state.

In case of burns:

- If the burn is the result of contact with melted adhesive, do not try to remove the adhesive material from the skin. Do not try to remove it once it has solidified either.
- 2. Cool the affected area down immediately with lots of cold and clean water.
- Seek medical attention as soon as possible either from the company's medical service or the nearest hospital. Provide the medical staff with the Safety Information Sheet of the adhesive.









MATERIALS

Meler systems are designed for use with hot-melt adhesives. They should not be used with any other type of material, and especially not with solvents, which may cause personal injury or damage to internal system components.

Some units are specifically designed to use polyurethane reactive (PUR) hot-melt adhesives. Using PUR on a unit that is not prepared for that purpose may cause severe damage to the unit.

When using adhesive, follow the corresponding guidelines found in the Technical and Safety Sheets provided by the manufacturer. Pay special attention to the advised work temperatures in order to prevent adhesive burning and degradation.

Ventilate the work area adequately in order to remove the vapors produced. Avoid the prolonged inhalation of these vapors.

Always use original Meler components and replacement parts, which guarantee the correct system operation and service.





INTENDED USE



The equipment are designed to be used in the following conditions:

- Hot-melt adhesive fusion and pumping at temperatures up to 200 °C (392 °F). Consult with Meler technical service to operate with higher working temperatures.
- · Use of equipment with Meler accessories.
- Installation of equipment according to the security regulations currently in force and the instructions provided in this manual (anchoring, electrical connection, hydraulic connection, etc).
- Use of equipment in non-explosive, non-chemically aggressive environments.
- Use of equipment following the safety instructions indicated in this manual, as well as on the labels accompanying the equipment, using adequate means of protection during each mode of operation.

LIMITED USE



The equipment should <u>never</u> be used under the following conditions:

- Use with reactive polyurethane or any other material that might cause safety or health risks when heated.
- Use of equipment in environments where cleaning is necessary using water jets (except Arion Akua).
- · Use of equipment to heat or melt food products.
- In potentially explosive atmospheres, aggressive chemical environments or outdoors.
- · Use or operation without adequate safety protection.
- If the person in question does not have the necessary training to use the unit or to apply all of the necessary safety measures.

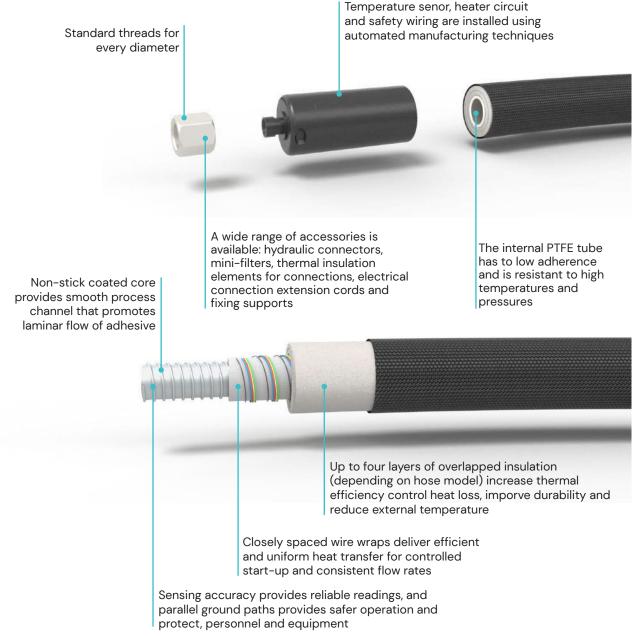


Note: Do not modify the equipment or use components that were not supplied by Meler. For any modification of a component of the equipment or part of the installation, you must firstly consult the After-Sales Service.

2. DESCRIPTION

A wide range of flexible, robust and long-lasting hoses. This range may be uses for a broad spectrum of applications, either as full Meler installations or as replacement parts for other brands thanks to the variety of internal diameters, lengths and they can be supplied with different electrical connections for adapting to all market standards. Besides, they can be used with the most aggressive types of adhesives.

GENERAL FEATURES





HOSE RANGES DESCRIPTION

1. ARION ESSENTIAL - STANDARD HOSE

| Sensor type | Pt-100 | Ni-120 | Thermocouple (J) | NTC-R |
|-----------------------------|---|---------------------|----------------------|---------------|
| Inner diameters available | | 6 • 8 • 13 • 1 | 16 • 20 mm | |
| Lengths available | | From 0.6 to 14 m | | From 1 to 9 m |
| Maximum working temperature | | Up to 2 | 230 °C | |
| Electrical power supply | | 200 • 2 | 30 VAC | |
| Maximum Working pressure | 156 (Ø6) • 120 (Ø8) • 100 (Ø13) • 70 (Ø16) • 65 (Ø20) bar at 200 °C | | | |
| Mínimum bending radius | 180 (Ø6) • | 200 (Ø8) • 300 (Ø13 | 3) • 350 (Ø16) • 400 | (Ø20) mm |
| Use type | Automatic • Transfer | | | |
| Hydraulic connections type | GAS 1/4" (Ø6) • JIC 9/16" (Ø6 – Ø8) • M16x1.5 (Ø8) • JIC 3/4" (Ø13) • M22x1,5 (Ø13) • JIC 1 1/16" (Ø16) • M30x1.5 (Ø20) • M30x2 (Ø20) | | | |
| Electrical connections type | M01 • M04 • M05 • P01 • S02 • X01 • T01 • D01 N05 • N06 • N07 M03 • X01 • X03 | | RO1 | |
| Power (at 230V) | 90 - 225 W/m | | | |

2. ARION HANDY - MANUAL HOSE

| Sensor type | Pt-100 | Ni-120 | Thermocouple (J) | |
|-----------------------------|--|------------------|------------------|--|
| Inner diameters available | | 8 • 10 • 13 mm | | |
| Lengths available | | From 0.6 to 13 m | | |
| Maximum working temperature | | Up to 200 °C | | |
| Electrical power supply | 120 • 200 • 230 VAC | | | |
| Maximum Working pressure | 130 (Ø8) • 120 (Ø10) • 105 (Ø13) bar at 200 °C | | | |
| Mínimum bending radius | 200 (Ø8-Ø10) • 300 (Ø13) mm | | | |
| Use type | Manual | | | |
| Internal air | Ø10 | | | |
| Hydraulic connections type | JIC 9/16" (Ø8 - Ø10) • JIC 3/4" (Ø13) | | | |
| Electrical connections type | M01 • S01 • S03 • N01 • N02 • N03 M03 • X01 • X0 | | | |
| Power (at 230V) | 90 - 160 W/m | | | |

3. ARION VERSA - OUTER Ø30mm

| Sensor type | Pt-100 | Ni-120 | Thermocouple (J) |
|-----------------------------|-----------------------------------|------------------|------------------|
| Inner diameters available | | 6 • 8 mm | |
| Lengths available | | From 0.6 to 14 m | |
| Maximum working temperature | | Up to 200 °C | |
| Electrical power supply | 200 • 230 VAC | | |
| Maximum Working pressure | 156 (Ø6) • 130 (Ø8) bar at 200 °C | | |
| Mínimum bending radius | 180 (Ø6) • 200 (Ø8) mm | | |
| Use type | Automatic • Transfer | | |
| Extra options | Quarz • Rythm | | |
| Hydraulic connections type | JIC 9/16" • JIC 1/2" | | |
| Electrical connections type | M01 N01 M03 | | |
| Power (at 230V) | 100 W/m | | |

4. ARION AKUA - WATERPROOF HOSE

| Sensor type | Pt-100 | Ni-120 | Thermocouple (J) | NTC-R |
|-----------------------------|---|-------------------|------------------|---------------|
| Inner diameters available | | 6 • 8 • | 13 mm | |
| Lengths available | | From 0.6 to 7.2 m | | From 1 to 9 m |
| Maximum working temperature | | Up to 2 | 200 °C | |
| Electrical power supply | 200 • 230 VAC | | | |
| Maximum Working pressure | 156 (Ø6) • 130 (Ø8) • 105 (Ø13) bar at 200 °C | | | |
| Mínimum bending radius | 160 (Ø6) • 180 (Ø8) • 300 (Ø13) mm | | | |
| Use type | Automatic • Transfer | | | |
| Hydraulic connections type | GAS 1/4" (Ø6) • JIC 9/16" (Ø6 – Ø8) • M16x1.5 (Ø8) • JIC 3/4" (Ø13) • M22x1.5 (Ø13) | | | |
| Electrical connections type | M01 N04 M03 R0 | | | RO1 |
| Power (at 230V) | 90 - 160 W/m | | | |

5. ARION CIRCLE - REMOVAL CORE HOSE

| Sensor type | Pt-100 | Ni-120 | Thermocouple (J) | NTC-R |
|-----------------------------|----------------------|-----------------|------------------|---------------|
| Inner diameters available | | 8 r | nm | |
| Lengths available | | From 0.6 to 9 m | | From 1 to 9 m |
| Maximum working temperature | | Up to 2 | 200 °C | |
| Electrical power supply | 200 • 230 VAC | | | |
| Maximum Working pressure | 130 bar at 200 °C | | | |
| Mínimum bending radius | 250 mm | | | |
| Use type | Automatic • Transfer | | | |
| Hydraulic connections type | JIC 9/16" • M16x1.5 | | | |
| Electrical connections type | M01 | MO1 NO1 MO3 | | |
| Power (at 230V) | 200 W/m | | | |

6. ARION RHYTHM - DYNAMIC HOSE

| Sensor type | Pt-100 | Ni-120 | Thermocouple (J) |
|-----------------------------|--|-----------|------------------|
| Inner diameters available | | 8 • 13 mm | |
| Lengths available | From 0.6 to 7.2 m (Ø8 230V) From 0.6 to 5.4 m (Ø13 230V) From 0.6 to 6 m (Ø8 200V) From 0.6 to 4.2 m (Ø13 200V) | | |
| Maximum working temperature | Up to 200 °C | | |
| Electrical power supply | 200 • 230 VAC | | |
| Maximum Working pressure | 130 (Ø8) • 120 (Ø10) • 105 (Ø13) bar at 200 °C | | |
| Mínimum bending radius | 200 (Ø8) • 300 (Ø13) mm | | |
| Use type | Transfer | | |
| Hydraulic connections type | JIC 9/16" (Ø8) • JIC 3/4" (Ø13) | | |
| Electrical connections type | M01 N01 M03 | | |
| Power (at 230V) | 90 - 150 W/m | | |

7. ARION QUARZ - REINFORCED MESH

| Sensor type | Pt-100 | Ni-120 | Thermocouple (J) |
|-----------------------------|------------------------------------|-----------------|------------------|
| Inner diameters available | | 8 • 13 mm | |
| Lengths available | | From 0.6 to 9 m | |
| Maximum working temperature | | Up to 200 °C | |
| Electrical power supply | 200 • 230 VAC | | |
| Maximum Working pressure | 130 (Ø8) • 105 (Ø13) bar at 200 °C | | |
| Mínimum bending radius | 200 (Ø8) • 300 (Ø13) mm | | |
| Use type | Automatic • Transfer | | |
| Hydraulic connections type | JIC 9/16" (Ø8) • JIC 3/4" (Ø13) | | |
| Electrical connections type | M01 • T01 N01 M03 | | |
| Power (at 230V) | 90 – 150 W/m | | |

8. ARION INFERNO - HIGH TEMPERATURA HOSE

| Sensor type | Pt-100 | Ni-120 | Thermocouple (J) | NTC-R |
|-----------------------------|--|------------------|------------------|---------------|
| Inner diameters available | | 8 • 13 | 3 mm | |
| Lengths available | | From 0.6 to 10 m | | From 1 to 9 m |
| Maximum working temperature | | Up to 2 | 250 °C | |
| Electrical power supply | 200 • 230 VAC | | | |
| Maximum Working pressure | 80 (Ø8) • 60 (Ø13) bar at 200 °C | | | |
| Mínimum bending radius | 200 (Ø8) • 300 (Ø13) mm | | | |
| Use type | Automatic • Transfer | | | |
| Hydraulic connections type | JIC 9/16" (Ø8) • M16x1.5 (Ø8) • JIC 3/4" (Ø13) • M22x1.5 (Ø13) | | | |
| Electrical connections type | M01 N01 M03 R01 | | | RO1 |
| Power (at 230V) | 135 – 185 W/m | | | |



9. ARION POWER - HIGH PRESSURE

| Sensor type | Pt-100 | Ni-120 | Thermocouple (J) | NTC-R | |
|-----------------------------|--|------------------|------------------|---------------|--|
| Inner diameters available | | 8 • 13 • 16 | • 20 mm | | |
| Lengths available | | From 0.6 to 10 m | | From 1 to 9 m | |
| Maximum working temperature | | Up to 2 | 200 °C | | |
| Electrical power supply | | 200 • 230 VAC | | | |
| Maximum Working pressure | 193 (Ø8) • 140 (Ø13) • 109 (Ø16) • 105 (Ø20) bar at 200 °C | | | | |
| Mínimum bending radius | 180 (Ø6) • 200 (Ø8) • 300 (Ø13) • 350 (Ø16) • 400 (Ø20) mm | | | | |
| Use type | Automatic • Transfer | | | | |
| Hydraulic connections type | JIC 9/16" (Ø8) • M16x1.5 (Ø8) • JIC 3/4" (Ø13) • M22x1,5 (Ø13) • JIC 1 1/16" (Ø16) • M30x1.5 (Ø20) • M30x2 (Ø20) | | | | |
| Electrical connections type | M01 N01 M03 R01 | | | | |
| Power (at 230V) | 110 (Ø8) - 160 (Ø13) W/m | | | | |

10. ARION BOLD - SUPER HIGH PRESSURE

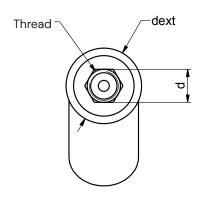
| Sensor type | Pt-100 | Ni-120 | Thermocouple (J) | NTC-R |
|-----------------------------|--|------------------|------------------|---------------|
| Inner diameters available | | 13 • 16 • | 20 mm | |
| Lengths available | | From 0.6 to 10 m | | From 1 to 9 m |
| Maximum working temperature | | Up to 2 | 200 °C | |
| Electrical power supply | | 200 • 2 | 30 VAC | |
| Maximum Working pressure | 345 bar at 200 °C | | | |
| Mínimum bending radius | 190 (Ø13) • 210 (Ø16) • 400 (Ø20) mm | | | |
| Use type | Automatic • Transfer | | | |
| Hydraulic connections type | JIC 3/4" (Ø13) • M22x1,5 (Ø13) • JIC 1 1/16" (Ø16) • M30x1.5 (Ø20) • M30x2 (Ø20) | | | |
| Electrical connections type | M01 N01 M03 R01 | | | RO1 |
| Power (at 230V) | 90 (Ø13) – 225 (Ø20) W/m | | | |

11. ARION INFINITY - ADHESIVE CARE HOSE

| Sensor type | Pt-100 | Ni-120 | Thermocouple (J) | | |
|-----------------------------|------------------|-----------------------|------------------|--|--|
| Inner diameters available | | 6 • 8 • 13 mm | | | |
| Lengths available | From 0.6 to 14 m | | | | |
| Maximum working temperature | Up to 210 °C | | | | |
| Electrical power supply | 200 • 230 VAC | | | | |
| Maximum Working pressure | 156 (Ø6) • 1: | 30 (Ø8) • 105 (Ø3) ba | ar at 200 °C | | |
| Mínimum bending radius | | 250 mm | | | |
| Use type | | Automatic • Transfer | | | |
| Hydraulic connections type | | JIC 9/16" | | | |
| Electrical connections type | M01 | NO1 | моз | | |
| Power (at 230V) | | 90 - 150 W/m | | | |

HOSES THREADS

| SENSOR | | Pt-100 • N | i-120 • Therm | ocouple (J) | | | NTC-R | |
|-----------|----------|------------|---------------|-------------|---------|---------|---------|-------|
| HOSE Ø | Ø6 | Ø8 | Ø13 | Ø16 | Ø20 | Ø8 | Ø13 | Ø16 |
| THREAD | GAS 1/4" | JIC 9/16" | JIC 3/4" JIC | JIC 1 1/16" | M30x1.5 | M16x1.5 | M22x1,5 | M30x2 |
| DEXT (MM) | 40,5 | 40,5 | 45 | 45 | 50 | 40,5 | 45 | 45 |
| D (MM) | 19 | 19 | 22 | 32 | 36 | 24 | 27 | 36 |





CONNECTORS TYPE CODIFICATION

| Code | Melter connector connection | Cable length (m) | Applicator connector connection | Cable length (m) |
|------|---|---------------------|--|---------------------|
| AMO1 | 1 Hose power 2 Neutral common power 3 Hose sensor 4 Hose sensor 5 Applicator sensor 6 Applicator sensor 7 Applicator power 8 PE (Ground) | O.65 | 1 Neutral applicator power 2 Applicator power 3 Applicator sensor 4 Applicator sensor 5 - Empty- 6 - Empty- 7 - Empty- 8 PE (Ground) | - |
| AMO3 | 1 Hose power 2 Neutral common power 3 Hose sensor (+) 4 Hose sensor (-) 5 Applicator sensor (-) 7 Applicator power 8 PE (Ground) | 0.65 | 1 Neutral applicator power 2 Applicator power 3 Applicator sensor (+) 4 Applicator sensor (-) 5 - Empty- 6 - Empty- 7 - Empty- 8 PE (Ground) | - |
| AMO4 | 1 Hose power 2 -Empty- 3 Hose power 4 Hose sensor 5 Hose sensor 5 Hose sensor 6 Applicator sensor 7 Applicator sensor 8 Applicator power 9 -Empty- 10 Applicator power 9 PE (Ground) | O.65 | 1 Applicator sensor 2 Applicator sensor 3 Applicator power 4 Applicator power 5 -Empty- PE (Ground) | - |
| ANO1 | 1 Applicator power 2 Applicator power 3 Applicator sensor (bridge with 12) 4 Hose power 5 Applicator sensor (bridge with 9) 6 Hose power 7 PE (Ground) 8 Hose sensor (bridge with 11) 9 Hose sensor (bridge with 5) 10 - Empty- 11 Hose sensor (bridge with 8) 12 Applicator sensor (bridge with 3) | O.65 | 1 Applicator power 2 Applicator power 3 Applicator sensor 4 - Empty- 5 Applicator sensor \bigoplus PE (Ground) | - |
| ANO4 | 1 Applicator power 2 Applicator power 3 Applicator sensor (bridge with 12) 4 Hose power 5 Applicator sensor (bridge with 9) 6 Hose power 7 PE (Ground) 8 Hose sensor (bridge with 11) 9 Hose sensor (bridge with 5) 10 - Empty- 11 Hose sensor (bridge with 8) 12 Hose applicator (bridge with 3) | 0.65 | 1 Applicator power 2 Applicator power 3 Applicator sensor 4 -Empty- 5 Applicator sensor 6 -Empty- 7 PE (Ground) | - |
| ANO6 | Al Hose sensor (bridge with 2) C2 -Empty- A2 Bridge with Al C3 Applicator power A3 Applicator sensor C4 Hose power A4 Hose power C5 -Empty- A5 -Empty- B1 Auxiliary B2 -Empty- B3 Applicator power B4 Applicator power B5 -Empty- | 2 | 1 Applicator power 2 Applicator power 3 Applicator sensor 4 -Empty- 5 Applicator sensor 6 -Empty- 7 PE (Ground) | O.65 |

| Code | Melter connector connection | Cable length (m) | Applicator connector connection | Cable length (m) |
|------|---|---------------------|---|------------------|
| APO1 | 1 Applicator power 2 -Empty- 3 Applicator power 4 Applicator sensor 5 PE (Ground) 6 Applicator sensor 7 Solenoid valve 8 -Empty- 9 Solenoid valve 10 -Empty- 11 Hose sensor 12 Hose sensor 13 Hose power 14 Hose power | O.65 | 1 Applicator power 2 -Empty- 3 Applicator power 4 Applicator sensor 5 PE (Ground) 6 Applicator sensor 7 Solenoid valve 8 -Empty- 9 Solenoid valve | O.65 |
| ARO1 | 1 Hose sensor 2 Applicator power 3 Applicator sensor 4 Hose sensor 5 Hose power 6 Hose sensor 7 Hose/applicator power 8 PE (Ground) | 0.65 | 1 Applicator sensor 2 Applicator power 3 Applicator sensor 4 -Empty- 5 -Empty- 6 -Empty- 7 Applicator power 8 PE (Ground) | - |
| ASO2 | 1 PE (Ground) 2 Hose power (bridge with 6) 3 Applicator power 4 - Empty- 5 - Empty- 6 Hose Power (bridge with 2) 7 Switch 8 Hose sensor 10 Applicator sensor 11 Applicator sensor 12 Switch 13 Switch 14 Switch 15 - Empty- 16 - Empty- | 0.65 | 1 PE (Ground) 2 Applicator power 3 Applicator sensor 4 Switch 5 Switch 6 Applicator sensor 7 Applicator sensor 8 Switch 9 Switch | O.65 |
| ATO1 | 1 Hose/Applicator sensor 2 Hose power 3 Hose sensor 4 Hose sensor 5 Applicator sensor 6 Applicator sensor 7 Applicator power 8 PE (Ground) | 0.65 | 1 Applicator power 2 Applicator power 3 Applicator sensor 4 Applicator sensor 5 - Empty- 6 - Empty- 7 - Empty- 8 PE (Ground) | - |
| AWO1 | 1 Applicator power 2 3 Applicator power 4 5 Hose power 6 7 6 7 8 9 10 9 Hose sensor 10 Hose power ⊕ PE (Ground) | O.65 | 1 Applicator power 2 3 Applicator power 4 5 -Empty- 6 7 8 PE (Ground) | - |
| AXO1 | Al Hose power C1 -Empty-A2 Hose power C2 A3 Applicator power C3 A4 Applicator power C4 A5 -Empty- C5 -Empty-B1 Hose sensor PE (Ground) B2 Hose sensor B4 Applicator sensor B4 Applicator sensor B5 -Empty- B5 -Empty- | 1.6 | 2 Applicator power 3 Applicator power 4 5 6 Applicator sensor 7 Applicator sensor 8 PE (Ground) | - |

| Code | Melter connector connection | Cable length (m) | Applicator connector connection | Cable length (m) |
|------|---|---------------------|---|---------------------|
| AXO3 | 1 Hose power 2 Hose/Applicator power 3 Applicator power 4 Solenoid valve 5 Solenoid valve 6 Hose sensor 7 Hose sensor (bridge with PE) 8 PE (Ground) | 1.6 | 1-Empty- 2 Applicator power 3 Applicator power 4 Solenoid valve 5 Solenoid valve 6 Sensor (+) | 1.6 |
| | 1- Applicator sensor (-) 2- Applicator sensor (+) | 1.6 | 7 Sensor (-) 8 PE (Ground) | |
| ммо1 | 1 Hose power 2 Common neutral hose power 3 Hose sensor 4 Hose sensor 5 Applicator sensor 6 Applicator sensor 7 Applicator power 8 PE (Ground) | 0.65 | TERMINAL WITHOUT CONNECTION | - |
| MMOO | 1 Hose power 2 Applicator power 3 Hose sensor 4 Hose sensor 5 Applicator sensor 6 Applicator sensor 7 Applicator power 8 PE (Ground) | 0.65 | TERMINAL WITHOUT CONNECTION | - |
| MMO2 | 1 Switch 2 Switch (bridge with 1) 3 -Empty- 4 Switch | 0.65 | 1 Switch 2 Switch 3 - Empty- 4 - Empty- | 0.50 |
| ммоз | 1 Hose power 2 Common neutral hose power 3 Hose sensor (+) 4 Hose sensor (-) 5 Applicator sensor (-) 7 Applicator power 8 PE (Ground) | O.65 | TERMINAL WITHOUT CONNECTION | - |
| MNO1 | 1 Applicator power 2 Applicator power 2 Applicator power 3 Applicator sensor (bridge with 12) 4 Hose power 5 Applicator sensor (bridge with 9) 6 Hose power 7 PE (Ground) 8 Hose sensor (bridge with 11) 9 Hose sensor (bridge with 5) 10 -Empty- 11 Hose sensor (bridge with 8) 12 Applicator sensor (bridge with 3) | 0.65 | TERMINAL WITHOUT CONNECTION | - |
| MNO2 | 1 Applicator power 2 Applicator power 2 Applicator sensor (bridge with 12) 4 Hose power 5 Applicator sensor (bridge with 9) 6 Hose power 7 PE (Ground) 8 Hose sensor (bridge with 11) 9 Hose sensor (bridge with 5) 10 -Empty- 11 Hose sensor (bridge with 8) 12 Applicator sensor (bridge with 3) | 0.65 | 1 PE (Ground) 2 Hose power 3 Hose power 4 -Empty- 5 -Empty- 6 Applicator sensor | O.65 |
| | 1 Switch 2 Switch (bridge with 1) 3 -Empty- 4 Switch | 0.65 | 8 Switch 9 Switch | |

| Code | Melter connector connection | Cable length (m) | Applicator connector connection | Cable length (m) |
|------|---|---------------------|---|---------------------|
| MNO3 | 1 Applicator power 2 Applicator sensor (bridge with 12) 4 Hose power 5 Applicator sensor (bridge with 9) 6 Hose power 7 PE (Ground) 8 Hose sensor (bridge with 11) 9 Hose sensor (bridge with 5) 10 -Empty- 11 Hose sensor (bridge with 8) 12 Applicator sensor (bridge with 3) | 0.65 | TERMINAL WITHOUT CONNECTION | - |
| | 1 Switch 2 Switch (bridge with 1) 3 -Empty- 4 Switch | O.65 | 1 Switch 2 - Empty- 3 - Empty- 4 Switch | 0.50 |
| MSO1 | 1 PE (Ground) 2 Hose power (bridge with 6) 3 Applicator power 4 Switch 5 Switch 6 Hose power (bridge with 2) 7 -Empty- 8 Hose sensor 9 Hose sensor 10 Applicator sensor 11 Applicator sensor 12 Switch 13 Switch 14 -Empty- 15 -Empty- 16 -Empty- | 0.65 | 1 PE (Ground) 2 Hose power 3 Applicator power 4 Switch 5 Switch 6 Applicator sensor 7 Applicator sensor 8 Switch 9 Switch | 0.65 |
| | 1 PE (Ground) 2 Hose power (bridge with 6) 3 Applicator power | | TERMINAL WITHOUT CONNECTION | - |
| MSO3 | 4 Switch 5 Switch 6 Hose power (bridge with 2) 7 -Empty- 8 Hose sensor 9 Hose sensor 10 Applicator sensor 11 Applicator sensor 12 -Empty- 13 -Empty- 14 -Empty- 15 -Empty- 16 -Empty- | O.65 | 1 Switch 2 Switch 3 -Empty- 4 -Empty- | 0.50 |
| MSO4 | 1 PE (Ground) 2 Hose power (bridge with 6) 3 Applicator power 4 Switch 5 Switch 6 Hose Power (bridge with 2) 7 -Empty- 8 Hose sensor 10 Applicator sensor 11 Applicator sensor 12 -Empty- 13 -Empty- 14 -Empty- 15 -Empty- 16 -Empty- 16 -Empty- | O.65 | TERMINAL WITHOUT CONNECTION | - |
| MTO1 | 1 Hose/applicator power 2 Hose power 3 Hose sensor 4 Hose sensor 5 Applicator sensor 6 Applicator sensor 7 Hose power 8 PE (Ground) | 0.65 | TERMINAL WITHOUT CONNECTION | - |

 μ

| Code | Melter connector connection | Cable length (m) | Applicator connector connection | Cable length (m) |
|------|--|---------------------|---------------------------------|---------------------|
| TM01 | 1 Hose power 2 Neutral hose power 3 Hose sensor 4 Hose sensor 5 - Empty- 6 - Empty- 7 - Empty- 8 PE (Ground) | 0.65 | - | - |
| TN01 | 1 - Empty- 2 - Empty- 3 - Empty- 3 - Empty- 4 Hose power 5 Bridge with 9 6 Hose power 7 PE (Ground) 8 Hose sensor (bridge with 11) 9 Hose sensor (bridge with 5) 10 - Empty- 11 Hose sensor (bridge with 8) 12 - Empty- | 0.65 | TERMINAL WITHOUT CONNECTION | - |
| TNO7 | 1 Hose sensor 2 Hose sensor 3 Hose power 4 Hose power 5 -Empty- ⊕ PE (Ground) | O.65 | - | - |
| TTO1 | 1 Hose power 2 Hose power 3 Hose sensor 4 Hose sensor 5 - Empty- 6 - Empty- 7 - Empty- 8 PE (Ground) | 0.65 | - | - |
| TXO1 | C B A 1 Hose power C1 - Empty- A2 Hose power C2 - Empty- A2 Hose power C3 - Empty- A4 - Empty- C3 - Empty- A5 - Empty- A5 - Empty- B2 Hose sensor (+) B2 Hose sensor (-) B3 - Empty- B4 - Empty- B4 - Empty- B5 - Empty- | 1.6 | - | - |
| TXO4 | 1 -Empty- 2 Hose power 3 Hose power 4 -Empty- 5 -Empty- 6 Hose sensor (+) 7 Hose sensor (-) 8 PE (Ground) | 1.6 | - | - |

3. HOSES SETUP AND CONNECTION

IMPORTANT!

FOLLOW THESE INSTRUCTIONS CAREFULLY. FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY OR LOSE PRODUCT WARRANTY.

BEFORE STARTING INSTALLATION WHETHER THE HOSE IS NEW OR HAS BEEN USED BEFORE:

- Before connecting or removing a hose, discharge the hydraulic pressure of the melter. To do this, refer to the corresponding instruction manual.
- 2. Turn off the unit and unplug it from the electrical grid.
- 3. As a rule, during assembly and use do not twist the hose or bend it at an angle, since this could damage the internal components of the hose irreversibly.
- 4. Do not rotate the nut of the hose if there is solidified adhesive inside. This could damage the core. Components can be separated forcibly at some points of the hose by rotating the fixed nut if the end of the hose is solidified with the adhesive substance.
- Do not place the hose on the ground during the operation. This can cause heat dissipation and hose damage. Furthermore, for optimal operation, hoses must not be in contact with each other or lean on the main machine.
- Pre-heat and lubricate the end connectors (B) with a heat applicator to connect and disconnect the hose.
- 7. Never unclog the hose in any manner. Contact the Meler Service Centre.

CONNECTING A NEW HOSE

- After taking the hose from its bag and removing the protective plugs (A), select the end corresponding to the male electrical connector (see Fig.1).
- 2. Use a connector (B) to plug this end of the hose mechanically into one of the pump outlets available in the unit (C). To do so, choose the pump outlet(s) beforehand and remove the metallic plugs that protect them (D).
- Also, remove the protective lid of one of the supports, located at the rear of the unit, and fasten the male electrical connector of the hose (E).
- 4. Take the same steps to connect the other end of the hose with the applicator: first the mechanical connection, then the electrical one.





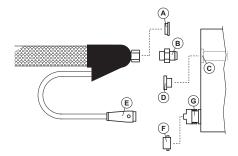


Figure 1: Hose components

| Α | Hose plug |
|---|------------------|
| В | Fitting |
| С | Pump outlet |
| D | Pump plug |
| E | Male connector |
| F | Connector cap |
| G | Female connector |

5. After performing these operations and determining the final location of the hose and applicator, the nuts and connectors must be retightened before applying hydraulic pressure to the circuit (Fig. 2).

Warning: The electrical connections of the hose are to be installed in a fixed, stationary products, without twisting or bending movement, during the operation.

REMOVING A USED HOSE

- 1. Discharge the hydraulic pressure of the melter.
- 2. Switch off any connected devices. Switch off the applicator's air supply if applicable.
- 3. Disconnect the electrical connectors of the hoses or any cables between the melter unit and the applicator.
- 4. Unplug the connector from the melter unit and the hose-applicator adaptor.
- 5. Dispose of the hose in an appropriate manner.

CONNECTING A USED HOSE AGAIN

- Connect the electrical components first in order to soften the adhesive and then carry out the mechanical connection.
- After the softening process starts in the hose, let the heat of the unit connector continue to soften the adhesive at the end of the hose.
 Do not use excessive force when rotating the nut to ensure that the melting process continues until the nut can be completely tightened.
 To do this, use two wrenches (see Fig. 2).

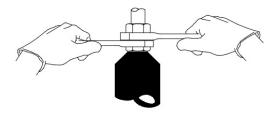
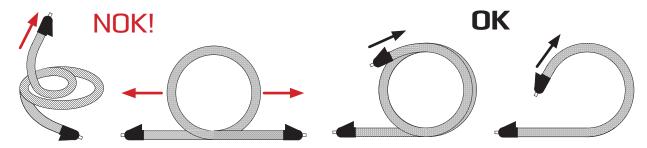
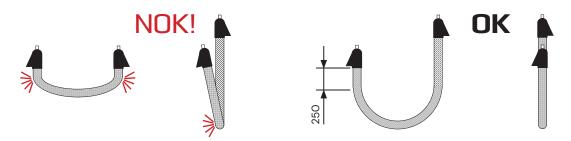


Figure 2: Use two wrenches to install

GENERAL CONNECTION TIPS

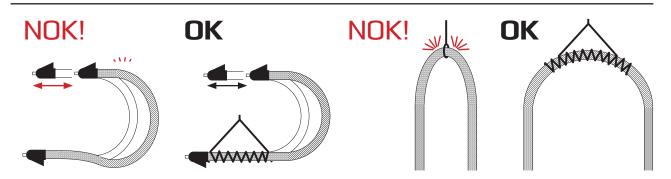


Unwind hoses instead of pulling their ends. Avoid bending radius lower than 200mm (Ø6/Ø8), 300mm (Ø13), 350mm (Ø16) and 400mm (Ø20).

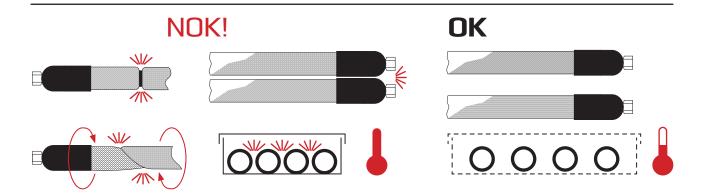


Use a hose right length to avoid folded sections. Let at the end a minimum of 250 mm straight length.

Assure hose movement on a single plane.

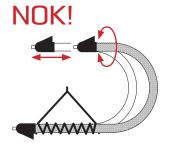


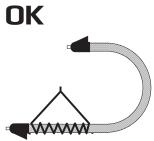
Hold the hose by two points with a spiral bracket. Avoid 'V' position.



Do not secure with narrow brakets or tighten the hose. Avoid twisting movements. Avoid the accumulation of heat between hoses.

ARION INFINITY







STATIC USE. Not suitable for repetitive torque movement.

DO NOT USE FOR ROBOTIC APPLICATIONS.

ARION AKUA



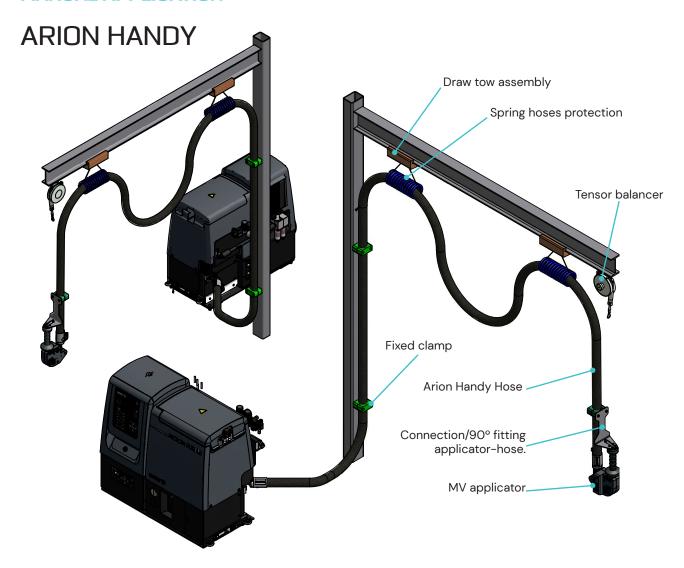




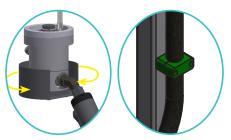
DO NOT IMMERSE THE HOSE.

Avoid water draining to the electrical connections or to the melter.

HOSE INSTALLATION IN FIXED STRUCTURE. MANUAL APPLICATION



HOSE INSTALLATION IN ROBOT



ARION RHYTHM

Hose (A) connection from melter to rotating fitting (1):

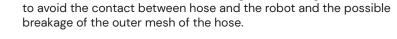
Place the rotating fitting that it can rotate and help prevent twisting in the hose (B).

This first hose can be attached to the structure with fixed clamps (2).

Supporting hose (B) from the rotating fiting to the clamp with ball joint (5) of the robot arms:

Give to the hose enough length from the rotating fitting to the first clamp with ball joint, in order to do all the robot path.

To do this hang the hose using a spring balancer (3). Protect the hose with a plastic spiral tube (4) during its way along the robot arm to avoid the contact between hose and the robot and the possible breakage of the outer mesh of the hose.



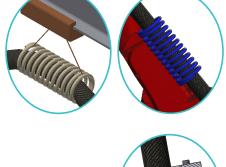
All the fastenings of the hose to the robot must be clamps type (5) or (6).

Supporting hose (B) from the clamp with ball joint to the applicator:

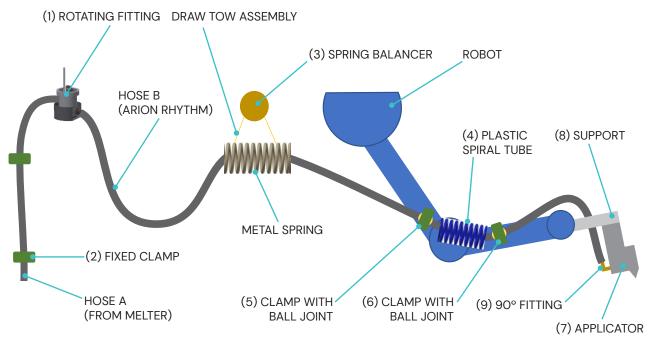
From the clamp with ball joint (6) to the applicator (7), the hose must make enough curvature to save the articulated head of the robot.

The hose must be guided through a support (8) without fixing it, giving certain freedom of movement minimizing the twists in the hose and protecting the thread from the body of the applicator.

Finally, the hose is positioned parallel to the applicator and is connected by a 90° fitting (9).







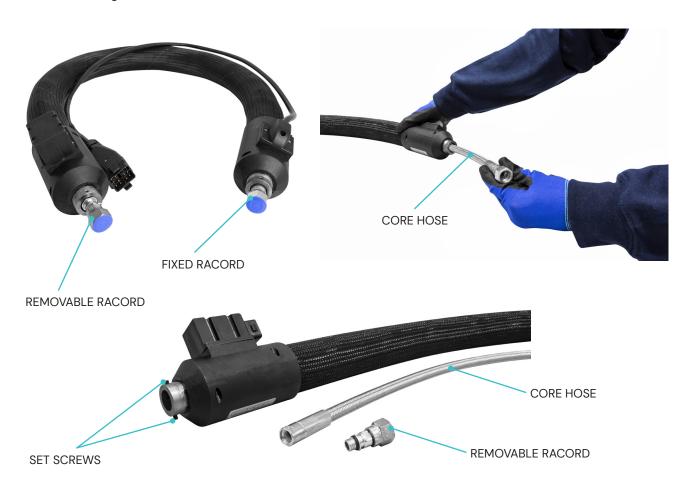
REMOVABLE CORE HOSE REPLACE

ARION CIRCLE

Warning: Hot zone with high temperatures. Risk of burns. Use thermal protective equipment.



- 1. Heat the hose to 'Standby' temperature.
- 2. Depressurize the system and disconnect the hose.
- 3. If possible, allow as much adhesive as possible to drain from inside the hose.
- 4. Loosen the set screws of the removable racord.
- Using two spanners, loosen the removable racord at the end of the hose.
- 6. Loosen the set screws from the fixed racord at the other end of the hose and remove the core hose.
- 7. Insert the new core hose and tighten the set screws of the fixed racord.
- 8. Using two spanners, mount the removable racord at the end of the hose and tighten the set screws.



ACCESSORIES

| Fittings | References | | | | | | |
|------------------------------|----------------|---|---------------|-----------------|----------------------------|----------------------------|--|
| Description | Ø6 1/4" GAS | Ø8 9/16" JIC | Ø8 M16X1,5 | Ø13 3/4" JIC | Ø16 1 1/16" JIC | Ø20 M30x1,5 | |
| Straight Fitting (9/16" UNF) | 150127440 | 20040000 (long) 20030000 (short) | 150092180 | 20130001 | 20130001 + 150090640 | ROOO4782 | |
| Straight Fitting (3/4" UNF) | ı | ROOO4394 | ı | ROOO4937 | 150090570 | 150091380 | |
| 45° Fitting (9/16″ UNF) | 150127450 | 20020000 | 150094170 | ROOO6478 | 150090590 | 20020000 + 150090680 | |
| 45° Fitting (3/4″ UNF) | ı | ROO07109 | - | ROOO3859 | 150090600 | 150090900 | |
| 90° Fitting (9/16″ UNF) | 150127460 | 20010000 | 150092190 | ROO05658 | ROOO5658 + 150090640 | 20010000 + 150090680 | |
| 90° Fitting (3/4″ UNF) | - | 150090750 | - | 150041900 | 150090560 | 150090670 | |

| Fittings Adapters | | References | | | | |
|-------------------------------------|-----------------|-----------------|--------------------|----------------|--|--|
| Description | Ø8 9/16" JIC | Ø13 3/4" JIC | Ø16 1 1/16" JIC | Ø20 M30x1,5 | | |
| Straight Fitting (Female 9/16" JIC) | - | 07000007 | - | 150090680 | | |
| Straight Fitting (Female 3/4" JIC) | - | - | 150090640 | - | | |

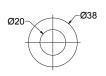
| T Fittings | Refer | ences | |
|-----------------------|---------------------|--------------------|--|
| Description | Ø8 2x 9/16'' JIC | Ø13 2x 3/4" JIC | |
| T Fitting (9/16" UNF) | 20060000 | 150091640 | |
| T Fitting (3/4" UNF) | 150092220 | 150091660 | |

| Fittings with Flare Swivel | Refer | ences | |
|---------------------------------|------------------|------------------|--|
| Description | Ø8 9/16'' JIC | Ø13 3/4'' JIC | |
| Straight Fitting (9/16" JIC TL) | 20130000 | - | |
| 45° Fitting (9/16" JIC TL) | 20120000 | - | |
| 45° Fitting (3/4" JIC TL) | - | 150092700 | |
| 90° Fitting (9/16" JIC TL) | 20110000 | - | |

| In-line Minifilter | 50 Mesh (0,30 mm) | 100 Mesh (0,15 mm) | | 200 Mesh (0,07 mm) |
|--------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Description | Ø8mm Hose (9/16″JIC) | Ø8mm Hose (9/16″JIC) | Ø13mm Hose (3/4″JIC) | Ø8mm Hose (9/16″JIC) |
| Straight | 26000013 | 26000014 | 150092090 | 26000015 |
| 45° | 26000016 | 26000017 | 150002100 | 26000018 |
| 90° | 26000019 | 26000020 | 150092110 | 26000021 |

| Thermal Insulation | | | |
|---|-------------|--|--|
| Reference | Description | | |
| 29000016 Thermal insulation tube for connections/fittings | | | |





HEATED DISTRIBUTORS

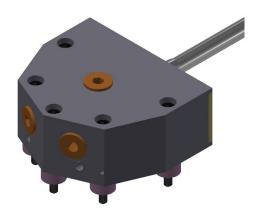
Specific Heated block for one adhesive inlet and several hydraulic outlets.

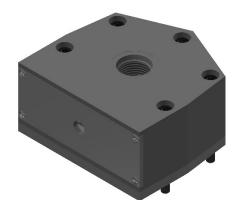
| Pt100 Heated Distributor | | | | | | |
|---|--|-----------|---|-----------|-----|-----|
| Reference | Reference N° Inputs Thread N° Outputs Thread Technology Power (W | | | | | |
| ROOO4628 (*) | 1 | 9/16" UNF | 1 | 9/16" UNF | M01 | 150 |
| R0007868 (**) | 1 | 3/4" UNF | 2 | 9/16" UNF | M01 | 300 |
| R0006781 (**) | 1 | 3/4" UNF | 2 | 3/4" UNF | M01 | 300 |
| R0004600 (**) | 1 | 3/4" UNF | 5 | 9/16" UNF | M01 | 300 |
| (*) Two straight fittings are included. | | | | | | |

^(*) Two straight fittings are included (**) 45° fitting is included.

| Ni120 Heated Distributor | | | | | | |
|--------------------------|--|-----------|---|-----------|-----|-----|
| Reference | Reference N° Inputs Thread N° Outputs Thread Technology Power (W | | | | | |
| ROO07425 (*) | 1 | 9/16" UNF | 1 | 9/16" UNF | NO1 | 150 |
| R0007790 (**) | 1 | 3/4" UNF | 2 | 9/16" UNF | NO1 | 300 |
| R0006194 (**) | 1 | 3/4" UNF | 2 | 3/4" UNF | NO1 | 300 |
| R0003074 (**) | 1 | 3/4" UNF | 5 | 9/16" UNF | NO1 | 300 |

^(*) Two straight fittings are included. (**) 45° fitting is included.



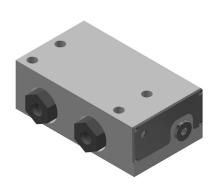


NON RETURN HEATED DISTRIBUTORS

Specific Heated block for two or more adhesive inlets and one or several hydraulic outlets.

| Pt100 Non Return Heated Distributors | | | | | | |
|--|---|-------------|-----------|-------------|-----|-----|
| Reference N° Inputs Thread N° Outputs Thread Technology Po | | | Power (W) | | | |
| 111300100 | 2 | 3/4" UNF | 1 | 3/4" UNF | M01 | 600 |
| 111300060 | 3 | 1 1/16" UNF | 2 | 1 1/16" UNF | M01 | 600 |

| Ni120 Non Return Heated Distributors | | | | | | |
|--|---|-------------|---|-------------|-----|-----|
| Reference N° Inputs Thread N° Outputs Thread Technology Power (\ | | | | Power (W) | | |
| 111300160 | 2 | 9/16" UNF | 1 | 9/16" UNF | NO1 | 600 |
| 111300200 | 2 | 3/4" UNF | 1 | 3/4" UNF | NO1 | 600 |
| 111300150 | 2 | 1 1/16" UNF | 2 | 1 1/16" UNF | NO1 | 600 |

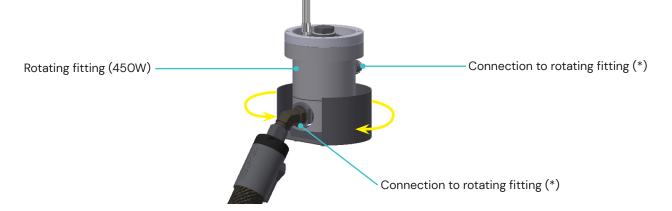




HEATED ROTATING FITTING

The upper part is fixed, leaving the lower part free to rotate 360°. This fitting is heated, therefore, it must be electrically connected to the hose.

| Reference | Description |
|--|--------------------------------------|
| ROO08474 | Rotating fitting for hose Ø8, Pt-100 |
| ROO08473 Rotating fitting for hose Ø8, Ni-120 | |
| ROOO4023 Rotating fitting for hose Ø13, Pt-100 | |
| ROOO4615 Rotating fitting for hose Ø13, Ni-120 | |

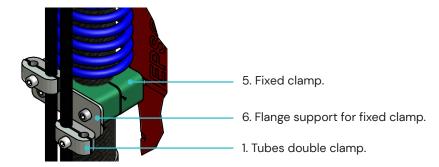


| (*) Connections to Rotating Fitting (Included in the reference) | | | | |
|---|------------------------------------|--|--|--|
| g0 | Straight fitting 3/4"UNF- 9/16"JIC | | | |
| Ø8 | 45° fitting 3/4"UNF- 9/16"JIC | | | |
| G10 | Straight fitting 3/4"UNF- 3/4"JIC | | | |
| Ø13 | 45° fitting 3/4"UNF- 3/4"JIC | | | |

FIXED CLAMP

It is used to fix a hose that has no movement to the main structure of the machine.

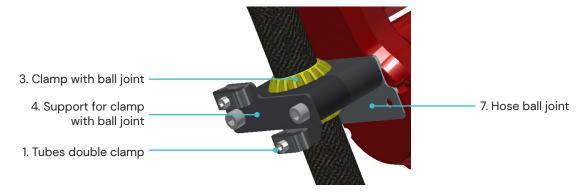
It can also have a metal plate with two tabs through which the electric cable and pneumatic tube to the applicator can go.



CLAMP WITH BALL JOINT

It is used for fixing the hose to the main structure or to the robot but giving it certain degrees of freedom.

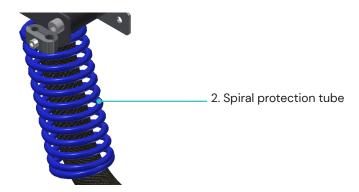
Furthermore, a metal sheet with two taps can be used for guiding the air and electric tubes to the applicator.



SPIRAL PROTECTION TUBE

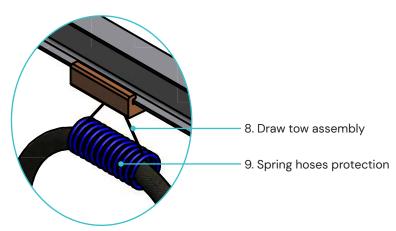
It is used for avoiding the contact between hose and main structure or robot, so the hose wear gets reduced.

Since it is a pneumatic tube, it can be used for air suppling the solenoid at the applicator.



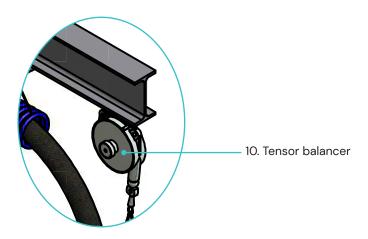
DRAW TOW ASSEMBLY

Securing the hose to the upper structure allowing movement in a linear direction.



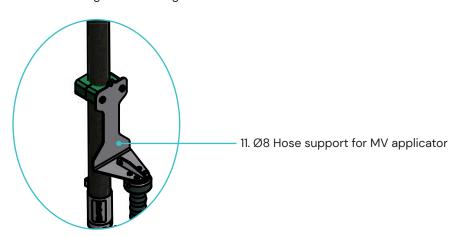
SPRING BALANCER 2,4 KG

The balancing tensioner supports the hose and keeps it elevated all the time. An integrated centrifugal brake prevents the tensioner from picking up too fast, which minimizes the risk of damaging the operator.



MV APPLICATOR SUPPORT TO HOSE

Specific support to fix the hand applicator MV to the hose avoiding the damage to the fitting.



| N° | Description | Reference |
|----|---------------------------------------|-----------|
| 1 | Tubes double clamp | 150091460 |
| 2 | Spiral protection tube | 150100190 |
| 3 | Clamp with ball joint Ø8 | 150100170 |
| 4 | Support for clamp with ball joint Ø40 | 150100200 |
| 5 | Fixed clamp hose Ø8 | 29100008 |
| 6 | Flange support for fixed clamp Ø40 | 150100180 |
| 7 | Hose ball joint Ø8 | 150100270 |
| 8 | Towrope assembly drag hose | 150100150 |
| 9 | Hose spring protection | 150023660 |
| 10 | Spring balancer 2,4 KG | 150100310 |
| 11 | Ø8 Hose support for MV applicator | 150100250 |

