



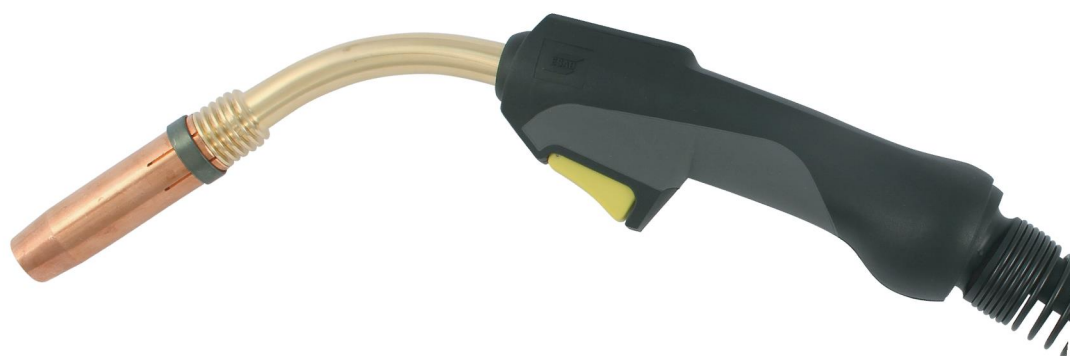
MXL 201

MXL 271

MXL 341

MXL 411W

MXL 511W



Instruction manual





EU DECLARATION OF CONFORMITY

According to
The Low Voltage Directive 2014/35/EU, entering into force 20 April 2016
The RoHS Directive 2011/65/EU, entering into force 2 January 2013

Type of equipment

Welding Torch for MIG and MAG welding

Type designation

Air Cooled Variants: MXL 201, MXL 271, MXL 341

Water Cooled Variants: MXL 411W, MXL 511W

Brand name or trade mark

ESAB

Manufacturer or his authorised representative established within the EEA

Name, address, and telephone No:

ESAB AB

Lindholmsallén 9, Box 8004, SE-402 77 Göteborg, Sweden

Phone: +46 31 50 90 00, www.esab.com

The following harmonised standard in force within the EEA has been used in the design:

EN 60974-7:2013, Arc Welding Equipment – Part 7: Torches

EN 50581:2012, Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

By signing this document, the undersigned declares as manufacturer, or the manufacturer's authorised representative established within the EEA, that the equipment in question complies with the safety requirements stated above.

Date

Gothenburg

2018-06-11

Signature

A handwritten signature in blue ink, appearing to read "Flavio Santos". The signature is stylized and cursive.

Flavio Santos

Position

Global General Manager

Accessories & Adjacencies

CE 2018

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1 SAFETY

1.1 Meaning of symbols

As used throughout this manual: Means Attention! Be Alert!

**DANGER!**

Means immediate hazards which, if not avoided, will result in immediate, serious personal injury or loss of life.

**WARNING!**

Means potential hazards which could result in personal injury or loss of life.

**CAUTION!**

Means hazards which could result in minor personal injury.

**WARNING!**

Before use, read and understand the instruction manual and follow all labels, employer's safety practices and Safety Data Sheets (SDSs).



1.2 Safety precautions

Users of ESAB equipment have the ultimate responsibility for ensuring that anyone who works on or near the equipment observes all the relevant safety precautions. Safety precautions must meet the requirements that apply to this type of equipment. The following recommendations should be observed in addition to the standard regulations that apply to the workplace.

All work must be carried out by trained personnel well-acquainted with the operation of the equipment. Incorrect operation of the equipment may lead to hazardous situations which can result in injury to the operator and damage to the equipment.

1. Anyone who uses the equipment must be familiar with:
 - its operation
 - location of emergency stops
 - its function
 - relevant safety precautions
 - welding and cutting or other applicable operation of the equipment
2. The operator must ensure that:
 - no unauthorised person is stationed within the working area of the equipment when it is started up
 - no-one is unprotected when the arc is struck or work is started with the equipment
3. The workplace must:
 - be suitable for the purpose
 - be free from drafts

4. Personal safety equipment:
 - Always wear recommended personal safety equipment, such as safety glasses, flame-proof clothing, safety gloves
 - Do not wear loose-fitting items, such as scarves, bracelets, rings, etc., which could become trapped or cause burns
5. General precautions:
 - Make sure the return cable is connected securely
 - Work on high voltage equipment **may only be carried out by a qualified electrician**
 - Appropriate fire extinguishing equipment must be clearly marked and close at hand
 - Lubrication and maintenance must **not** be carried out on the equipment during operation

**WARNING!**

Arc welding and cutting can be injurious to yourself and others. Take precautions when welding and cutting.

**ELECTRIC SHOCK - Can kill**

- Install and ground the unit in accordance with instruction manual.
- Do not touch live electrical parts or electrodes with bare skin, wet gloves or wet clothing.
- Insulate yourself from work and ground.
- Ensure your working position is safe

**ELECTRIC AND MAGNETIC FIELDS - Can be dangerous to health**

- Welders having pacemakers should consult their physician before welding. EMF may interfere with some pacemakers.
- Exposure to EMF may have other health effects which are unknown.
- Welders should use the following procedures to minimize exposure to EMF:
 - Route the electrode and work cables together on the same side of your body. Secure them with tape when possible. Do not place your body between the torch and work cables. Never coil the torch or work cable around your body. Keep welding power source and cables as far away from your body as possible.
 - Connect the work cable to the workpiece as close as possible to the area being welded.

**FUMES AND GASES - Can be dangerous to health**

- Keep your head out of the fumes.
- Use ventilation, extraction at the arc, or both, to take fumes and gases away from your breathing zone and the general area.

**ARC RAYS - Can injure eyes and burn skin**

- Protect your eyes and body. Use the correct welding screen and filter lens and wear protective clothing.
- Protect bystanders with suitable screens or curtains.

**NOISE - Excessive noise can damage hearing**

Protect your ears. Use earmuffs or other hearing protection.

MOVING PARTS - Can cause injuries



- Keep all doors, panels and covers closed and securely in place. Have only qualified people remove covers for maintenance and troubleshooting as necessary. Reinstall panels or covers and close doors when service is finished and before starting engine.



- Stop engine before installing or connecting unit.
- Keep hands, hair, loose clothing and tools away from moving parts.

FIRE HAZARD



- Sparks (spatter) can cause fire. Make sure that there are no inflammable materials nearby.
- Do not use on closed containers.

MALFUNCTION - Call for expert assistance in the event of malfunction.

PROTECT YOURSELF AND OTHERS!



CAUTION!

This product is solely intended for arc welding.



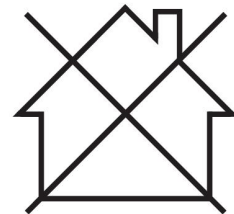
WARNING!

Do not use the power source for thawing frozen pipes.



CAUTION!

Class A equipment is not intended for use in residential locations where the electrical power is provided by the public low-voltage supply system. There may be potential difficulties in ensuring electromagnetic compatibility of class A equipment in those locations, due to conducted as well as radiated disturbances.



NOTE!

Dispose of electronic equipment at the recycling facility!

In observance of European Directive 2012/19/EC on Waste Electrical and Electronic Equipment and its implementation in accordance with national law, electrical and/or electronic equipment that has reached the end of its life must be disposed of at a recycling facility.

As the person responsible for the equipment, it is your responsibility to obtain information on approved collection stations.

For further information contact the nearest ESAB dealer.



ESAB has an assortment of welding accessories and personal protection equipment for purchase. For ordering information contact your local ESAB dealer or visit us on our website.

2 INTRODUCTION

The MIG / MAG welding torches of this series are exclusively intended for shielded- arc welding using inert gas (MIG) or active gas (MAG) for industrial and commercial use by suitably trained employees. The torches are only available in manual versions.

3 SHIPMENT AND PACKAGING

The components are carefully checked and packaged, however damage may occur during shipping.

Checking procedure on receipt of goods

Check that the shipment is correct by referring to the shipping note.

In case of damage

Check the package and components for damage (visual inspection).

In case of complaints

Check the package and components for damage (visual inspection).

- Contact with the last carrier immediately.
- Keep the packaging (for possible inspection by the carrier or supplier, or for returning the goods).

Storage in an enclosed space

Ambient temperature for shipment and storage: -20 °C to +55 °C

Relative air humidity: up to 90% at a temperature of 20 °C

4 TECHNICAL DATA

Welding torch	MXL 201	MXL 271	MXL 341
Type of cooling	Air	Air	Air
Permitted load at 60% duty cycle*			
Carbon dioxide CO ₂	160 A	230 A	330 A
Mixed gas, Ar/CO ₂ M21	150 A	210 A	300 A
Recommended gas flow	8-12 l/min	8-15 l/min	10-18 l/min
Wire diameter	0.6-1.0 mm	0.8-1.2 mm	1.0-1.6 mm
Operating temperature**	-10 °C to 40 °C	-10 °C to 40 °C	-10 °C to 40 °C

* The capacity may be reduced up to 30% when pulse welding.

Welding torch	MXL 411W	MXL 511W
Type of cooling	Water	Water
Permitted load at 100% duty cycle*		
Carbon dioxide CO ₂	400 A	500 A
Mixed gas, Ar/CO ₂ M21	350 A	450 A
Recommended gas flow	10-20 l/min	10-20 l/min
Wire diameter	1.0-1.6 mm	1.0-1.6 mm
Operating temperature**	-10 °C to 40 °C	-10 °C to 40 °C

* The capacity may be reduced up to 30% when pulse welding.

** When using liquid cooled torches in freezing conditions, use an adequate cooling liquid.

Duty cycle

The duty cycle refers to the time as a percentage of a ten-minute period that you can weld at a certain load without overloading. The duty cycle is valid for 40 °C / 104 °F, or below.

General torch data with reference to IEC/EN 60 974-7	
Type of guidance:	Manual
Wire type:	Standard round wire
Voltage rating:	The control circuit and trigger switch are rated for a voltage of 42 V, max. 1 A
Specifications of the torch cooling circuit (for liquid cooled torches only):	<ul style="list-style-type: none"> • minimum flow 1.2 l/min • min. water pressure: 2.5 bar • max. water pressure: 3.5 bar • input temperature: max. 40 °C • return temperature: max. 60 °C • cooling capacity: min. 1000 W, up to 2000 W depending on the application

Liquid cooled torches

Return temperatures of more than 60 °C can shorten the lifetime of the torch or cause damage or destruction of the torch. The cooler must always be filled with sufficient cooling liquid, refer to the instruction manual for the cooling unit. In case of a high thermal load on the torch, use a cooler with sufficient capacity. Use only special cooling fluid containing corrosion inhibitors for welding torches. For suitable products, contact your nearest ESAB dealer.

The ratings are valid for cable lengths from 3.0 to 5.0 m.

The rated loads refer to a standardized case of use. Under special conditions, e.g. in case of high heat reflection on the torch, the torch could overheat even when operated below the rated load. In this case choose a more powerful model or lower the duty cycle.

Conditions of intended use

1. The welding torch should only be used within the above mentioned technical specifications and for its intended purpose.
2. The type of torch has to be chosen according to the welding application. The required duty-cycle and load, the type of cooling, guiding method and the wire diameter have to be considered. If increased requirements exist, for example caused by pre-heated work pieces, high heat reflection in corners, etc. these must be taken into account by choosing a welding torch with adequate reserve in rated load.
3. The product must be protected from humidity and moisture during transport, storage and operation.

5 OPERATION

General safety regulations for handling the equipment can be found in the "SAFETY" chapter of this manual. Read it through before you start using the equipment!



CAUTION!

This product is intended for industrial use. In a domestic environment this product may cause radio interference. It is the user's responsibility to take adequate precautions.



DANGER!

In the event of an emergency, the power source must be switched off immediately. For further action in such circumstances, refer to the instruction manual of the power source for more information.

The welding torch can be used in any welding position.

Contact with hot items might cause damage to the torch and the cable assembly.

Do not drag the power source using the torch.

Do not pull the cable assembly over sharp edges. Do not bend the cable assembly sharply.

5.1 Fitting the linear

Fit the correct wire guide liner for the application, as needed to suit the wire type and diameter. See chapter "MAINTENANCE" section "Steel liner / Plastic liner".



NOTE!

For information on how to install new liners and about correct assembly procedure, see the chapter entitled "Maintenance"

Steel liner = for steel wires

Plastic liner = for aluminium, copper, nickel and stainless steel wires

5.2 Equipping the torch

The torch must be equipped according to the wire diameter and wire material. Choose the right liner, contact tip, tip adaptor, gas nozzle and gas diffuser (as applicable). A detailed overview of the suitable parts is found in the spare parts list for the torch.

Tighten the tip adaptor and the contact tip with an adequate tool.

Make sure that all required parts shown in the spare parts list, e.g. insulators, are installed. Welding without these items might cause immediate destruction of the torch.

5.3 Fitting the central adaptor to the equipment

1. Check that the wire guide liner is fitted correctly.
2. Insert the central plug into the socket on the wire feed unit and secure it by tightening the adaptor nut firmly by hand.

5.4 Connecting the cooling circuit

Connect the water hoses to the cooling unit: blue for water flow forward from the cooler to the torch; red for heated water flow backwards from the torch to the cooler. Before using a water

cooled torch, the air has to be removed from the cooling circulation by running the cooler for a few minutes.

**CAUTION!**

Wrongly connected water hoses can cause overheating and damage of the torch neck and water-power cable. Regularly check the coolant level and throughput on the cooling unit. Insufficient cooling might cause overheating and damage of the torch neck and water-power cable.

**NOTE!**

To achieve an optimal gas- and water flow, place the cable assemblies and the gas and water hoses as straight as possible. Kinked hoses will cause overheating and can damage the torch. Protect cables and supply hoses from damage.

5.5 Setting the level of shielding gas

Set the quantity of gas required on the gas regulator. The type and quantity of gas to be used depend on the welding task to be performed.

5.6 Checklist

Check the cable assembly before connecting it to the wire feed unit to confirm the wire liner is suitable for the wire diameter and type.

Check the front end consumable parts on the swan neck, whether the correct contact tip etc. is being used for the wire diameter and type.

5.7 Changing wire

When changing the wire, ensure that the end of the wire is deburred.

Insert the wire into the wire feeding unit in accordance with the operating instructions.

When inserting the wire, press the wire jog button on the wire feed unit.

5.8 Starting and stopping the welding process

The wire feeder and the welding process will be started by pulling the torch trigger. Depending on the configuration of the welding machine, the welding process will be stopped by either letting go of the trigger or by pulling the trigger a second time. Refer to the instruction manual for the power source for more information.

**DANGER!**

The torch head might reach very high temperatures during operation, there is a risk of severe burns. Let it cool down under observation, there is risk of fire. Do not place the hot torch on or near heat-sensitive objects. For water cooled torches, the cooling system should remain switched on for some minutes after the welding process has been stopped.

When leaving the workplace the system must be secured against unintended operation, preferably by switching off the power source.

6 MAINTENANCE

6.1 Overview

**NOTE!**

Regular maintenance is important for safe and reliable operation.

Cleaning and replacement of the welding torch's wear parts should take place at regular intervals in order to achieve trouble-free wire feed. Blow the wire guide clean regularly and clean the contact tip.

**WARNING!**

Before carrying out cleaning, servicing and repair work, the following shutdown procedure must be followed.

1. Switch off the power supply.
2. Close off the gas supply.

Make sure that the power supply and gas remain turned off all the time while servicing the equipment.

6.2 Cable assembly

Check the torch and cable assembly for damages prior to use. Damages must be repaired by qualified personnel before further use of the product.

6.3 Cleaning the wire feed

Disconnect the torch cable assembly from the equipment and lay it out straight.

Unscrew the nut and pull out the wire guide liner. Remove other parts from the swan neck.

Blow compressed air through the wire conduit from both ends in order to remove wire shavings.

Insert the liner into the wire conduit and screw the nut back on.

**NOTE!**

New liners must be cut to the correct length.

6.4 Steel liner / Plastic liner

If a wire feeding problem cannot be solved by exchanging the contact tip and cleaning the wire guide channel, the liner should be replaced.

Liner and welding wire should be inserted while the cable assembly is laid out straight.

Installing a steel liner

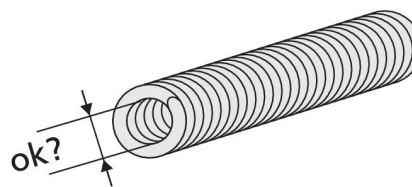
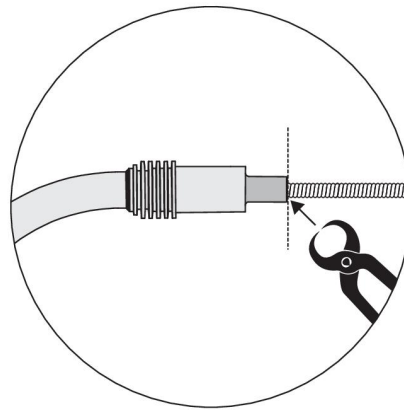
Remove the sleeve nut from the central connector, remove the gas nozzle and contact tip from the torch.

Insert the liner through the central connector and lock it with the sleeve nut.

Cut the liner flush with the tip holder and chamfer the edges (e.g. with a pencil sharpener).

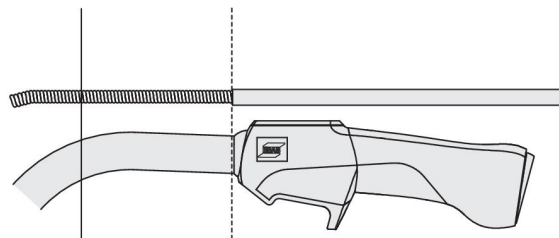
For MXL 271 only: Remove the tip holder and cut the liner flush with the front end of the neck.

Remove the liner from the torch and carefully smoothen its front end. If needed, grind down burred edges. Make sure the inner hole is completely open.



For insulated liners, remove the insulation at the front end so that the remaining insulation ends approximately at the front end of the torch handle.

Reinstall the liner and lock it with the sleeve nut. Install all equipment parts on the torch neck.



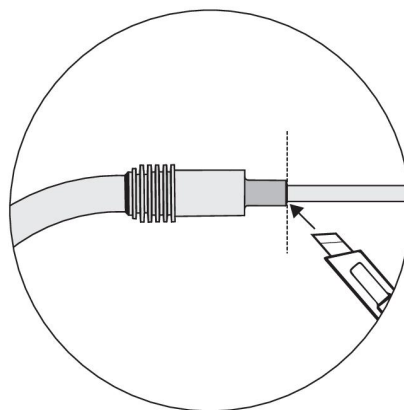
Installing a plastic liner

Remove the sleeve nut from the central connector, remove the gas nozzle and contact tip from the torch.

Insert the liner through the central connector and lock it with the sleeve nut.

Cut the liner flush with the tip holder and chamfer the edges (e.g. with a pencil sharpener).

For MXL 271 only: Remove the tip holder and cut the liner flush with the front end of the neck.



If it is difficult to insert the liner into the torch, make a clean cut at the front end of the liner and chamfer the edges (e.g. with a pencil sharpener).



Install the gas nozzle and contact tip on the torch.



NOTE!

If the liner has a bronze front end, first cut the plastic liner to a suitable length and let the bronze liner stick out approximately 40–50 mm from the torch neck. Attach the bronze liner to the front of the plastic liner and only then cut this liner assembly to the precise length.

6.5 Cleaning the swan neck

- Clean the inside of the gas nozzle regularly to remove welding spatter and spray with ESAB® anti-spatter agent.
- Check the consumables for visible damage and replace if necessary.

6.6 Checking the cooling system

Make sure that the cooling liquid is clean, change it if required. Impurities in the cooling liquid can obstruct the water channels of the torch. Always use suitable cooling fluid for torches with corrosion inhibitors.

7 TROUBLESHOOTING

If the measures described below are not successful, consult your dealer or the manufacturer. Read the operating instructions for the welding components, e.g. power source and wire feed unit.

Problem	Possible cause	Action
Torch becomes too hot	<ul style="list-style-type: none"> • Contact tip / tip holder not tight enough • Cooling system is not working well • Torch overstrained • Cable assembly defective 	<ul style="list-style-type: none"> • Check and tighten hand-tight • Check water flow, filling level and cleanliness • Observe technical data, if needed, choose a different type • Check cables, tubes and connections
Wire feeding problems	<ul style="list-style-type: none"> • Contact tip is worn • Liner is worn / dirty • Consumables used are not suitable for the wire diameter or material • Wire feeder not set-up properly • Cable assembly is bent or laid out in small radii • Wire is contaminated 	<ul style="list-style-type: none"> • Exchange contact tip • Check the liner, blow through in both directions. Exchange if needed. • Check with spare part list • Check the wire feeding rolls, the contact pressure and the spool brake • Check the cable assembly and lay it out straight • Use a cleaning felt
Porous welds	<ul style="list-style-type: none"> • Gas swirl caused by spatter adherence • Too small or extremely high gas flow in the torch • Gas supply defective • Air draft at the work place • Moisture or contamination on the wire or on the work piece 	<ul style="list-style-type: none"> • Clean the torch head, use gas diffuser / spatter protection • Check flow rate with measurement tool • Check flow rate and possible leakage • Install shielding • Check the wire and the work piece, use less or different anti-spatter liquid
Variable arc	<ul style="list-style-type: none"> • Contact tip is worn • Wrong welding parameters 	<ul style="list-style-type: none"> • Exchange contact tip • Correct the welding parameters
Welding process does not start	<ul style="list-style-type: none"> • Control cable is broken or the trigger is defective 	<ul style="list-style-type: none"> • Check and repair the trigger connections, clean the trigger switch or exchange it

8 ORDERING SPARE PARTS



CAUTION!

Repair and electrical work should be performed by an authorised ESAB service technician. Use only ESAB original spare and wear parts.

The MXL 201, MXL 271, MXL 341, MXL 411W and MXL 511W are designed and tested in accordance with international and European standards **IEC/EN 60974-7**. On completion of service or repair work, it is the responsibility of the person(s) performing the work to ensure that the product still complies with the requirements of the above standard.

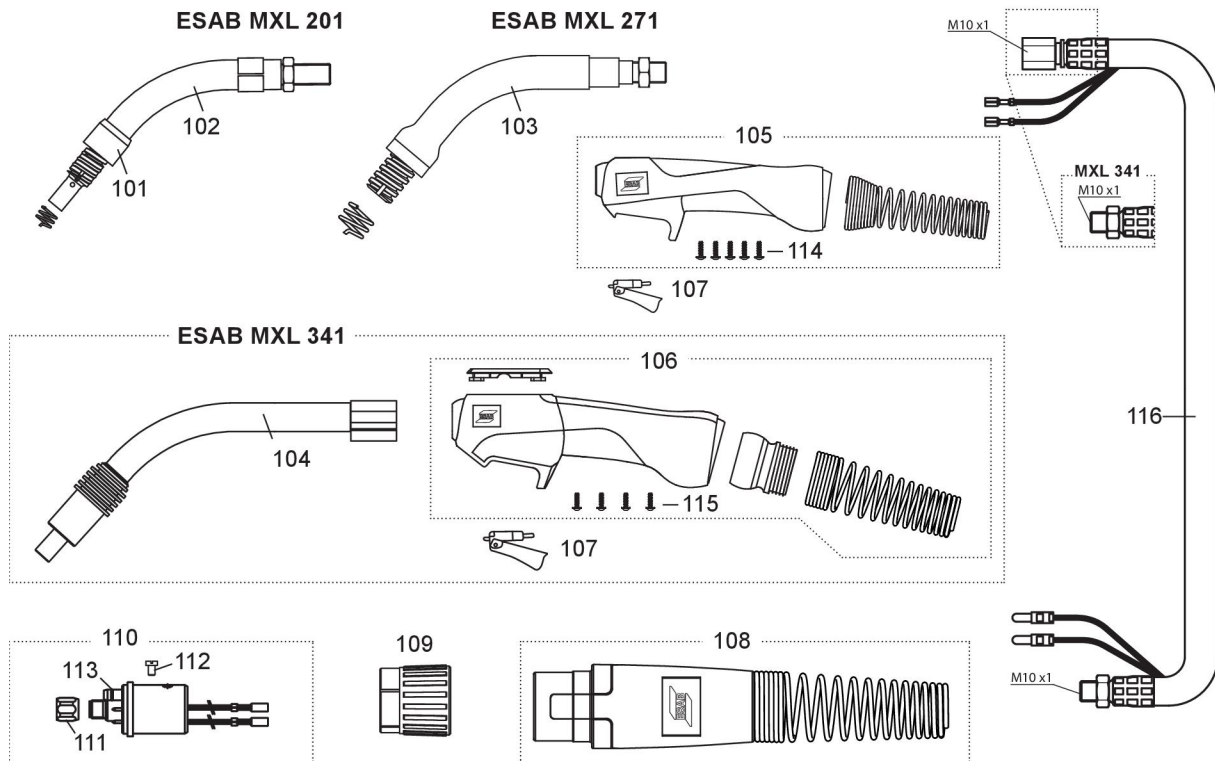
Spare parts and wear parts can be ordered through your nearest ESAB dealer, see esab.com. When ordering, please state product type, serial number, designation and spare part number in accordance with the spare parts list. This facilitates dispatch and ensures correct delivery.

ORDERING NUMBERS



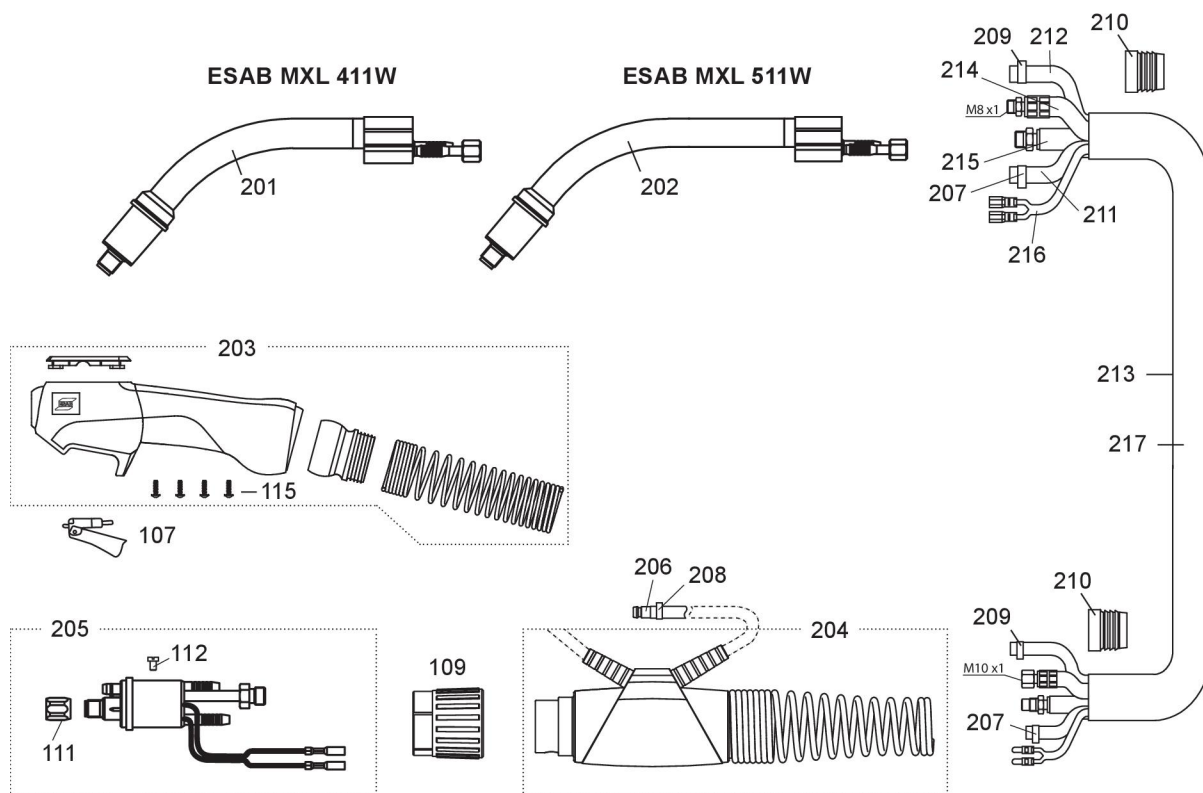
Ordering number	Denomination	Type	Notes
Gas cooled torches			
0700 025 220	MXL 201	Welding torch 3 m	Euro-Central connector
0700 025 221	MXL 201	Welding torch 4 m	Euro-Central connector
0700 025 230	MXL 271	Welding torch 3 m	Euro-Central connector
0700 025 231	MXL 271	Welding torch 4 m	Euro-Central connector
0700 025 240	MXL 341	Welding torch 3 m	Euro-Central connector
0700 025 241	MXL 341	Welding torch 4 m	Euro-Central connector
0700 025 242	MXL 341	Welding torch 5 m	Euro-Central connector
Water cooled torches			
0700 025 250	MXL 411W	Welding torch 3 m	Euro-Central connector
0700 025 251	MXL 411W	Welding torch 4 m	Euro-Central connector
0700 025 252	MXL 411W	Welding torch 5 m	Euro-Central connector
0700 025 260	MXL 511W	Welding torch 3 m	Euro-Central connector
0700 025 261	MXL 511W	Welding torch 4 m	Euro-Central connector
0700 025 262	MXL 511W	Welding torch 5 m	Euro-Central connector

SPARE PARTS LIST



Item	Denomination	Ordering no.	MXL 201	MXL 271	MXL 341
101	Head insulator	0700 200 096	X		
102	Torch neck MXL 201	0700 025 200	X		
103	Torch neck MXL 271	0700 025 201		X	
104	Torch neck MXL 341	0700 025 202			X
105	Handle complete Expert Mini	0700 025 900	X	X	
106	Handle complete Expert Plus	0700 025 901			X
107	Trigger, yellow, 2-poles	0700 025 903	X	X	X
108	Cable support cpl.	0700 025 950	X	X	X
109	Adaptor nut	0700 025 951	X	X	X
110	Central connector G	0700 200 101	X	X	X
111	Liner locking nut	0700 200 098	X	X	X
112	Cylinder head screw M4 x 6	0700 025 952	X	X	X
113	O-ring 4.0 x 1.0 mm (gas nipple)	0700 025 953	X	X	X
114	Screw for Expert Mini handle	0700 025 904	X	X	
115	Screw for Expert Plus handle	0700 025 904			X

Item	Denomination	Ordering no. / 3 m	Ordering no. / 4 m	Ordering no. / 5 m
116	Coaxial cable for MXL 201	0700 025 960	0700 025 961	-
-	Coaxial cable for MXL 271	0700 025 962	0700 025 963	-
-	Coaxial cable for MXL 341	0700 025 964	0700 025 965	0700 025 966

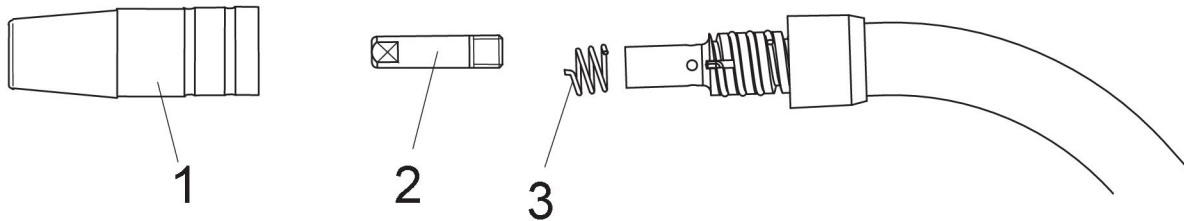


Item	Denomination	Ordering no.	MXL 411	MXL 511
201	Torch neck MXL 411W	0700 025 203	X	
202	Torch neck MXL 511W	0700 025 204		X
203	Handle complete Expert Plus	0700 025 902	X	X
204	Cable support cpl.	0700 025 971	X	X
205	Central connector W	0700 025 970	X	X
206	Quick connector	0700 025 973	X	X
207	Hose clamp with ring Ø 8.7	0700 025 974	X	X
208	Hose clamp with ring Ø 9.0	0700 025 975	X	X
209	Hose clamp with ring Ø 9.5	0700 025 976	X	X
210	Clamping ring for outer cover	0700 025 972	X	X
211	PVC-Gas hose, black, 4.5 x 1.5 mm	0700 025 993	X	X
212	PVC hose, braided, black, 5 x 1.5 mm	0700 025 994	X	X
213	Fabric outer cover	0700 025 992	X	X

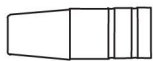



Item	Denomination	Ordering no. / 3 m	Ordering no. / 4 m	Ordering no. / 5 m
214	Water-power cable, blue	0700 025 983	0700 025 984	0700 025 985
215	Wire conduit, yellow	0700 025 986	0700 025 987	0700 025 988
216	Control cable cpl.	0700 025 989	0700 025 990	0700 025 991
217	Cable assembly	0700 025 980	0700 025 981	0700 025 982


WEAR PARTS


MXL 201



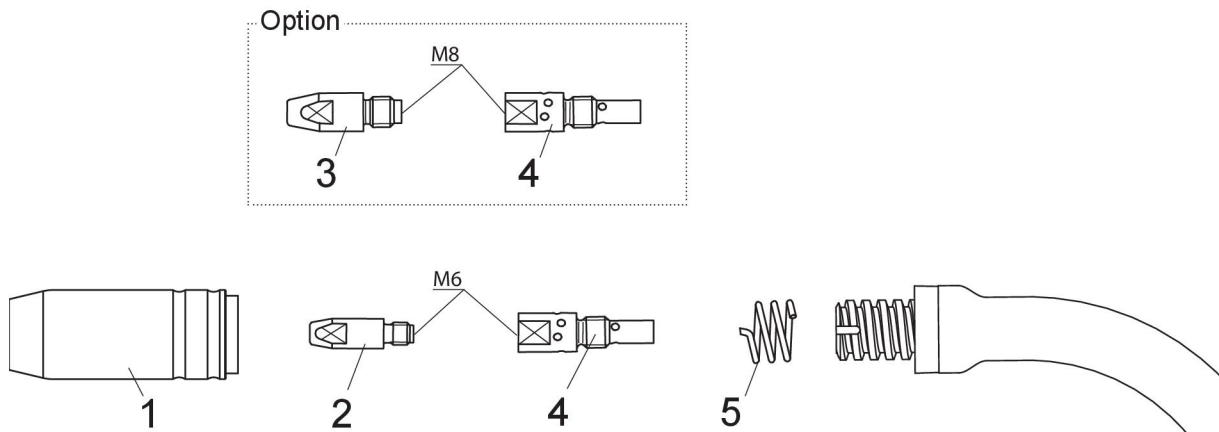
1. Gas nozzle
 2. Contact tip M6 x 25
 3. Nozzle spring

Ordering no.	Denomination	Notes	Ø	Length	
0700 200 054	Gas nozzle	Conical	12 mm	53 mm	
0700 200 060	Gas nozzle	Conical	9.5 mm	53 mm	
0700 200 057	Gas nozzle	Cylindrical	16 mm	53 mm	
0700 200 105	Gas nozzle	For self shielding wire	6.5 mm	43.5 mm	


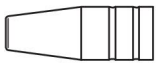

Ordering no.	Denomination	Notes	Ø	
0700 200 063	Contact tip, M6 x 25	Cu	0.6 mm	
0700 200 064	Contact tip, M6 x 25	Cu	0.8 mm	
0700 200 065	Contact tip, M6 x 25	Cu	0.9 mm	
0700 200 066	Contact tip, M6 x 25	Cu	1.0 mm	

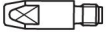
Ordering no.	Denomination	Notes	
0700 200 078	Nozzle spring		

Bold = Standard delivery

MXL 271




1. Gas nozzle
 2. Contact tip M6 x 28
 3. Contact tip M8 x 30
 4. Tip adaptor
 5. Nozzle spring

Ordering no.	Denomination	Notes	Ø	Length	
0700 200 055	Gas nozzle	Conical	15 mm	56 mm	
0700 200 061	Gas nozzle	Conical	11 mm	56 mm	
0700 200 058	Gas nozzle	Cylindrical	20 mm	56 mm	

Ordering no.	Denomination	Notes	Ø	
0700 200 068	Contact tip, M6 x 28	Cu	0.8 mm	
0700 200 069	Contact tip, M6 x 28	Cu	0.9 mm	
0700 200 070	Contact tip, M6 x 28	Cu	1.0 mm	
0700 200 071	Contact tip, M6 x 28	Cu	1.2 mm	
0700 200 081	Contact tip, M6 x 28	CuCrZr	0.8 mm	
0700 200 083	Contact tip, M6 x 28	CuCrZr	1.0 mm	
0700 200 084	Contact tip, M6 x 28	CuCrZr	1.2 mm	
0700 025 273	Contact tip, M6 x 28	Alu Cu	1.0 mm	
0700 025 274	Contact tip, M6 x 28	Alu Cu	1.2 mm	

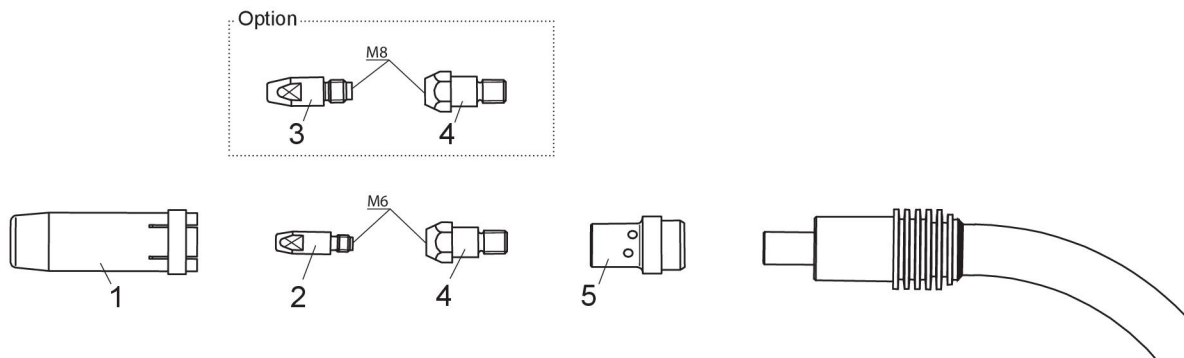
Bold = Standard delivery

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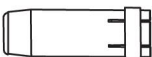

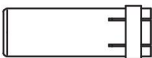
Ordering no.	Denomination	Notes	Ø	
0700 025 275	Contact tip, M8 x 30	Cu	0.8 mm	
0700 025 276	Contact tip, M8 x 30	Cu	1.0 mm	
0700 025 277	Contact tip, M8 x 30	Cu	1.2 mm	
0700 025 280	Contact tip, M8 x 30	CuCrZr	0.8 mm	
0700 025 281	Contact tip, M8 x 30	CuCrZr	0.9 mm	
0700 200 103	Contact tip, M8 x 30	CuCrZr	1.0 mm	
0700 200 104	Contact tip, M8 x 30	CuCrZr	1.2 mm	
0700 025 286	Contact tip, M8 x 30	Alu Cu	1.0 mm	
0700 025 287	Contact tip, M8 x 30	Alu Cu	1.2 mm	
Ordering no.	Denomination	Notes		
0700 200 073	Tip adaptor	M6 / L=35 mm		
0700 025 289	Tip adaptor	M8 / L=35 mm		
Ordering no.	Denomination	Notes		
0700 200 079	Nozzle spring			

Bold = Standard delivery

MXL 341

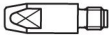



- 1. Gas nozzle
- 2. Contact tip M6 x 28
- 3. Contact tip M8 x 30
- 4. Tip adaptor
- 5. Gas diffuser

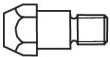
Ordering no.	Denomination	Notes	Ø	Length	
0700 200 056	Gas nozzle	Conical	16 mm	83.5 mm	
0700 200 062	Gas nozzle	Conical Only for M6	12 mm	83.5 mm	
0700 200 059	Gas nozzle	Cylindrical	20 mm	83.5 mm	

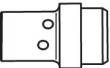
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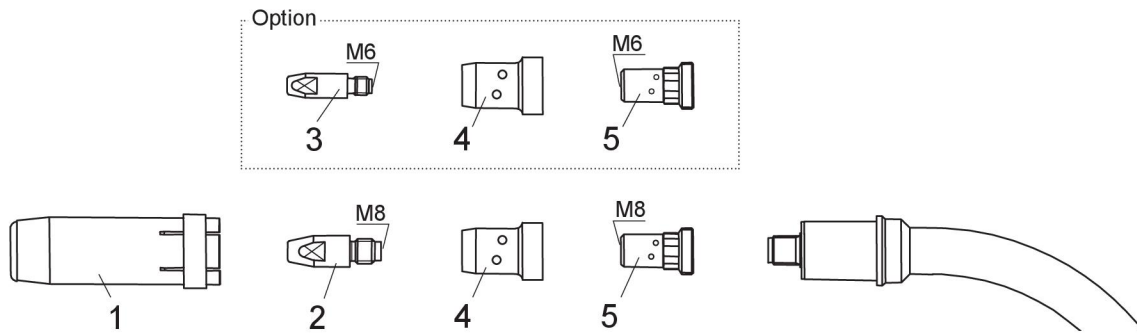
Ordering no.	Denomination	Notes	Ø	
0700 200 068	Contact tip, M6 x 28	Cu	0.8 mm	
0700 200 069	Contact tip, M6 x 28	Cu	0.9 mm	
0700 200 070	Contact tip, M6 x 28	Cu	1.0 mm	
0700 200 071	Contact tip, M6 x 28	Cu	1.2 mm	
0700 200 081	Contact tip, M6 x 28	CuCrZr	0.8 mm	
0700 200 083	Contact tip, M6 x 28	CuCrZr	1.0 mm	
0700 200 084	Contact tip, M6 x 28	CuCrZr	1.2 mm	
0700 025 273	Contact tip, M6 x 28	Alu Cu	1.0 mm	
0700 025 274	Contact tip, M6 x 28	Alu Cu	1.2 mm	

Ordering no.	Denomination	Notes	Ø	
0700 025 275	Contact tip, M8 x 30	Cu	0.8 mm	
0700 025 276	Contact tip, M8 x 30	Cu	1.0 mm	
0700 025 277	Contact tip, M8 x 30	Cu	1.2 mm	
0700 025 278	Contact tip, M8 x 30	Cu	1.4 mm	
0700 025 279	Contact tip, M8 x 30	Cu	1.6 mm	
0700 025 280	Contact tip, M8 x 30	CuCrZr	0.8 mm	
0700 025 281	Contact tip, M8 x 30	CuCrZr	0.9 mm	
0700 200 103	Contact tip, M8 x 30	CuCrZr	1.0 mm	
0700 200 104	Contact tip, M8 x 30	CuCrZr	1.2 mm	
0700 025 284	Contact tip, M8 x 30	CuCrZr	1.4 mm	
0700 025 285	Contact tip, M8 x 30	CuCrZr	1.6 mm	
0700 025 286	Contact tip, M8 x 30	Alu Cu	1.0 mm	
0700 025 287	Contact tip, M8 x 30	Alu Cu	1.2 mm	
0700 025 288	Contact tip, M8 x 30	Alu Cu	1.6 mm	

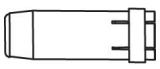
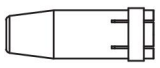
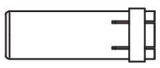
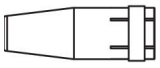
Ordering no.	Denomination	Notes	
0700 200 074	Tip adaptor	M6 / L=28 mm	
0700 025 290	Tip adaptor	M8 / L=28 mm	

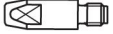
Ordering no.	Denomination	Notes	
0700 200 080	Gas diffusor	Black	

Bold = Standard delivery

MXL 411W / 511W

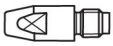
1. Gas nozzle
 2. Contact tip M6 x 28
 3. Contact tip M8 x 30
 4. Gas diffusor
 5. Tip adaptor

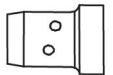
Ordering no.	Denomination	Notes	Ø	Length	
0700 025 295	Gas nozzle	Conical	16 mm	75.5 mm	
0700 025 296	Gas nozzle	Conical	14 mm	75.5 mm	
0700 025 297	Gas nozzle	Cylindrical	20 mm	75.5 mm	
0700 025 298	Gas nozzle	Conical Only for M6	12 mm	75.5 mm	

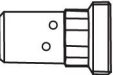
Ordering no.	Denomination	Notes	Ø	
0700 200 068	Contact tip, M6 x 28	Cu	0.8 mm	
0700 200 069	Contact tip, M6 x 28	Cu	0.9 mm	
0700 200 070	Contact tip, M6 x 28	Cu	1.0 mm	
0700 200 071	Contact tip, M6 x 28	Cu	1.2 mm	
0700 200 081	Contact tip, M6 x 28	CuCrZr	0.8 mm	
0700 200 083	Contact tip, M6 x 28	CuCrZr	1.0 mm	
0700 200 084	Contact tip, M6 x 28	CuCrZr	1.2 mm	
0700 025 273	Contact tip, M6 x 28	Alu Cu	1.0 mm	
0700 025 274	Contact tip, M6 x 28	Alu Cu	1.2 mm	

Bold = Standard delivery

WEAR PARTS

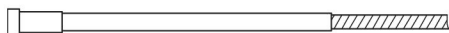
Ordering no.	Denomination	Notes	Ø	
0700 025 275	Contact tip, M8 x 30	Cu	0.8 mm	
0700 025 276	Contact tip, M8 x 30	Cu	1.0 mm	
0700 025 277	Contact tip, M8 x 30	Cu	1.2 mm	
0700 025 278	Contact tip, M8 x 30	Cu	1.4 mm	
0700 025 279	Contact tip, M8 x 30	Cu	1.6 mm	
0700 025 280	Contact tip, M8 x 30	CuCrZr	0.8 mm	
0700 025 281	Contact tip, M8 x 30	CuCrZr	0.9 mm	
0700 200 103	Contact tip, M8 x 30	CuCrZr	1.0 mm	
0700 200 104	Contact tip, M8 x 30	CuCrZr	1.2 mm	
0700 025 284	Contact tip, M8 x 30	CuCrZr	1.4 mm	
0700 025 285	Contact tip, M8 x 30	CuCrZr	1.6 mm	
0700 025 286	Contact tip, M8 x 30	Alu Cu	1.0 mm	
0700 025 287	Contact tip, M8 x 30	Alu Cu	1.2 mm	
0700 025 288	Contact tip, M8 x 30	Alu Cu	1.6 mm	

Ordering no.	Denomination	Notes	
0700 025 293	Gas diffusor	Black	
0700 025 294	Gas diffusor	Ceramic	

Ordering no.	Denomination	Notes	
0700 025 291	Tip adaptor	M8 / L=25 mm	
0700 025 292	Tip adaptor	M6 / L=25 mm	

Bold = Standard delivery

Steel liner



Ordering no.	Ø	Length	Notes	MXL 201	MXL 271	MXL 341	MXL 411 / 511W
0700 200 085	0.8 - 1.0	3.0 m	Blue	X	X	X	X
0700 200 086	0.8 - 1.0	4.0 m	Blue	X	X	X	X
0700 025 800	0.8 - 1.0	5.0 m	Blue			X	X
0700 200 087	1.0 - 1.2	3.0 m	Red		X	X	X
0700 200 088	1.0 - 1.2	4.0 m	Red		X	X	X
0700 025 801	1.0 - 1.2	5.0 m	Red			X	X
0700 025 802	1.2 - 1.6	3.0 m	Yellow			X	X
0700 025 803	1.2 - 1.6	4.0 m	Yellow			X	X
0700 025 804	1.2 - 1.6	5.0 m	Yellow			X	X

Bold = Standard delivery

PTFE liner

Ordering no.	Ø	Length	Notes	MXL 201	MXL 271	MXL 341	MXL 411 / 511W
0700 200 091	1.0 - 1.2	3.0	Red	X	X	X	X
0700 200 092	1.0 - 1.2	4.0	Red	X	X	X	X
0700 025 812	1.0 - 1.2	5.0	Red			X	X
0700 025 813	1.2 - 1.6	3.0	Yellow			X	X
0700 025 814	1.2 - 1.6	4.0	Yellow			X	X
0700 025 815	1.2 - 1.6	5.0	Yellow			X	X

PA Liner with bronze front end

Ordering no.	Ø	Length	Notes	MXL 201	MXL 271	MXL 341	MXL 411 / 511W
0700 025 816	0.8 - 1.0	3.0	Anthracite	X	X	X	X
0700 025 817	0.8 - 1.0	4.0	Anthracite	X	X	X	X
0700 025 818	0.8 - 1.0	5.0	Anthracite			X	X
0700 025 819	1.2 - 1.6	3.0	Anthracite			X	X
0700 025 820	1.2 - 1.6	4.0	Anthracite			X	X
0700 025 821	1.2 - 1.6	5.0	Anthracite			X	X



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