



***PSF 260C,
PSF 415C, PSF 415C RS3,
PSF 420Cw, PSF 420Cw RS3***



GB Instruction manual

DOKP4M4070





EU DECLARATION OF CONFORMITY

According to
The Low Voltage Directive 2014/35/EU
The RoHS Directive 2011/65/EU

Type of equipment

MIG/MAG fume extracting welding torch

Type designation

Air Cooled Variants: PSF 260C, PSF 415C, PSF 415C
RS3

Water Cooled Variant: PSF 420Cw, PSF 420Cw RS3

Brand name or trademark

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

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 **Signature**

Gothenburg 2020-03-11


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CE020




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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).
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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 unauthorized 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. The ESAB PSF Centrovac MIG / MAG welding torches combine the advantages of the PSF Standard Series with the ability off extraction fume in one process.

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

If the package and/or components have been damaged during shipment:

- 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	PSF 260C	PSF 415C, PSF 415C RS3	PSF 420Cw, PSF 420Cw RS3
Type of cooling	Air	Air	Water
Permitted load at:	60% duty cycle*		100% duty cycle
Carbon dioxide CO ₂	250 A	380 A	430 A
Mixed gas, Ar/CO ₂ M21	225 A	325 A	430 A
Recommended gas flow	8-12 l/min	10-18 l/min	10-20 l/min
Extraction volume:	40 m ³ /h	60 m ³ /h	53 m ³ /h
Differential pressure	1,4 Pa	4,0 Pa	2,9 Pa
Wire diameter	0.6-1.0 mm	0.8-1.6 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.

** 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 must 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 supply must be switched off immediately. For further action in such circumstances, refer to the instruction manual for 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.

The ESAB PSF Centrovac System must be connect with a high vacuum fume smoke exhauster.

5.1 Fitting the liner

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 aluminum, 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.

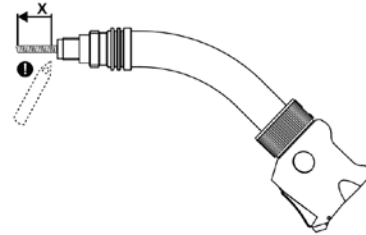
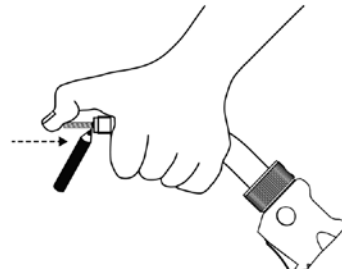
6.4 Steel liner / Plastic liner

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

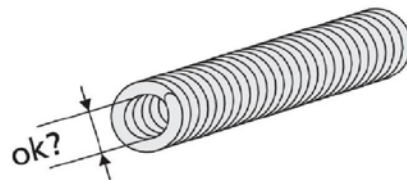
Liner and welding wire should be inserted while the cable assembly is laid out straight.

Installing a steel liner

1. Remove the sleeve nut from the central connector, remove the gas nozzle, contact tip and tip holder from the torch.
2. Insert the liner through the central connector and lock it with the sleeve nut.
3. Gently push back the front part of the liner into the torch as far as it will go, do not apply force. Mark the end of the torch neck on the liner.
4. Cut the liner to the correct length using a projectile "X" measured from the marking as shown in the figure.

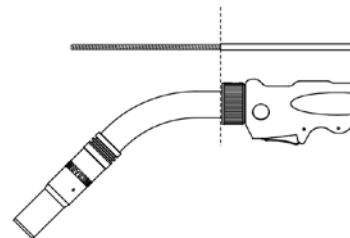


Remove the liner from the torch and carefully smoothen its front end. If needed, grind down burred edges. Make sure the inner hole is completely open.



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.

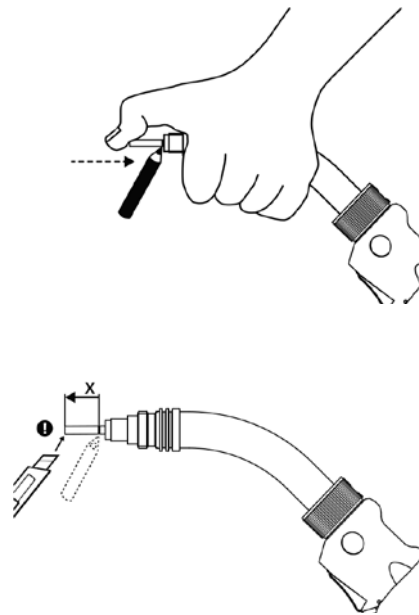


Cutting length

Welding torch	Projectile "X"
PSF 260C	16 mm
PSF 415C, PSF 415C RS3	12 mm
PSF 420Cw, PSF 420Cw RS3	12 mm

Installing a plastic liner

1. Remove the sleeve nut from the central connector, remove the gas nozzle, contact tip and tip holder from the torch.
2. Insert the liner through the central connector and lock it with the sleeve nut.
3. Gently push back the front part of the liner into the torch as far as it will go, do not apply force. Mark the end of the torch neck on the liner.
4. Cut the liner to the correct length using a projectile "X" measured from the marking as shown in the figure. Slightly chamfer the liner front end after the liner has been cut to the correct length.



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.

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 all equipment parts on the torch neck.

Cutting length

Welding torch	Projectile "X"
PSF 260C	13 mm
PSF 415C, PSF 415C RS3	9 mm
PSF 420Cw, PSF 420Cw RS3	9 mm

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 torch water channels. 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
Problem	Possible cause	Action
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 workplace • 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



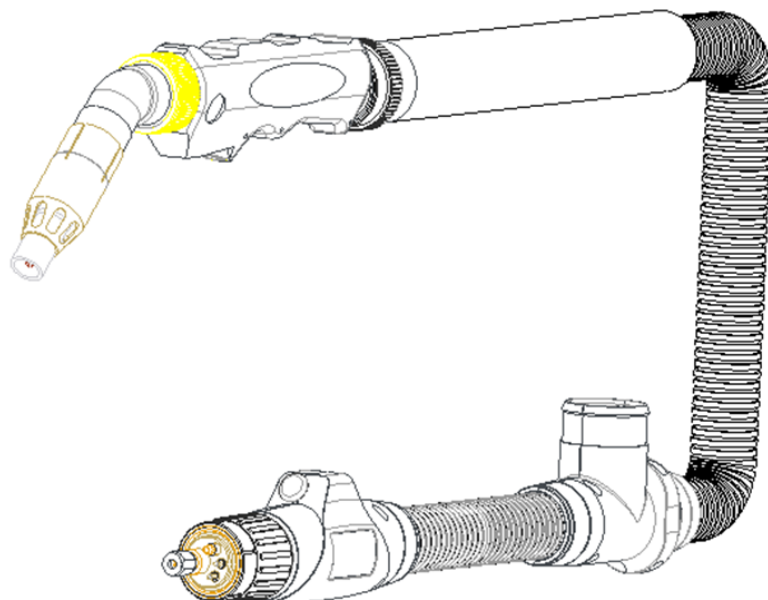
CAUTION!

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

The PSF 260C, PSF 415C and PSF 420Cw 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

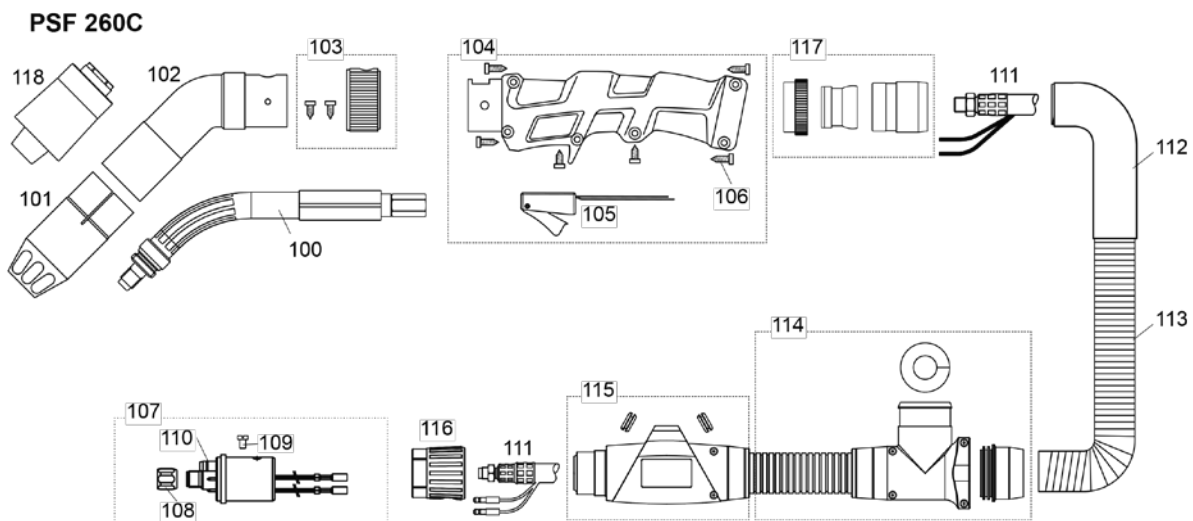


Ordering number	Denomination	Type	Notes
Gas cooled torches			
0700 025 020	PSF 260C	Welding torch 3 m	Euro-Central connector
0700 025 021	PSF 260C	Welding torch 4 m	Euro-Central connector
0700 025 022	PSF 260C	Welding torch 5 m	Euro-Central connector
0700 025 040	PSF 415C	Welding torch 3 m	Euro-Central connector
0700 025 041	PSF 415C	Welding torch 4 m	Euro-Central connector
0700 025 042	PSF 415C	Welding torch 5 m	Euro-Central connector
0700 025 043	PSF 415C RS3	Welding torch 3 m	Euro-Central connector
0700 025 044	PSF 415C RS3	Welding torch 4 m	Euro-Central connector
0700 025 045	PSF 415C RS3	Welding torch 5 m	Euro-Central connector
Water cooled torches			
0700 025 450	PSF 420Cw	Welding torch 3 m	Euro-Central connector
0700 025 451	PSF 420Cw	Welding torch 4 m	Euro-Central connector
0700 025 452	PSF 420Cw	Welding torch 5 m	Euro-Central connector
0700 025 453	PSF 420Cw RS3	Welding torch 3 m	Euro-Central connector
0700 025 454	PSF 420Cw RS3	Welding torch 4 m	Euro-Central connector
0700 025 455	PSF 420Cw RS3	Welding torch 5 m	Euro-Central connector

SPARE PARTS LIST

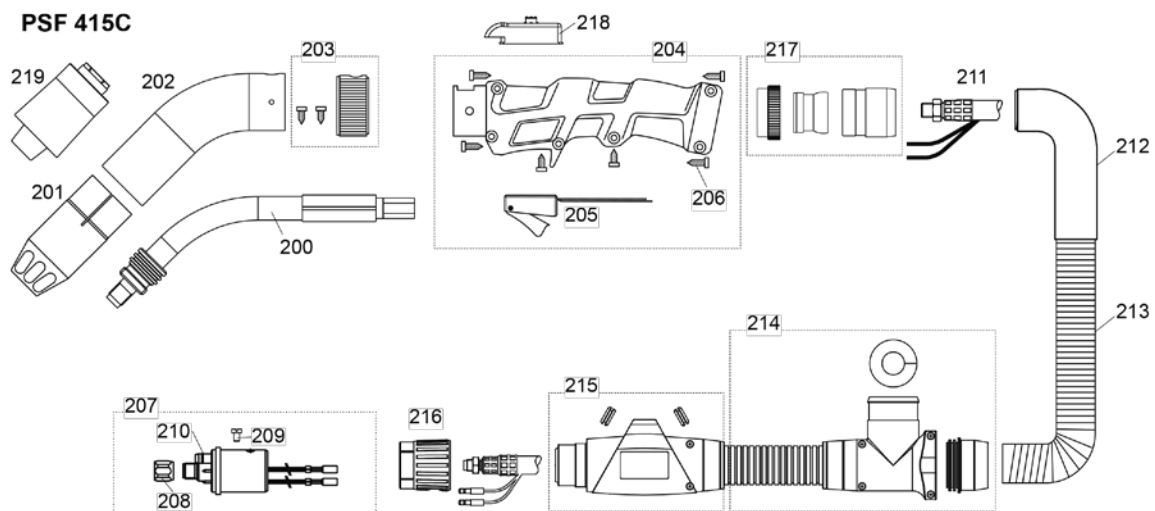
Torch neck PSF 260C

Item	Ordering no.	Denomination
100	0700 025 400	Torch neck PSF 260C
101	0700 025 470	Fume shroud PSF 260C
102	0700 025 475	Outer neck cpl. PSF 260C
103	0700 025 476	Air regulator, small, yellow cpl. with screws
104	0700 025 480	Handle, black, cpl. for all fume torches Centrovac
105	0700 025 474	Micro switch, housed, yellow, cpl.
106	0700 025 479	Set of screws for handle
107	0700 200 101	Central connector G
108	0700 200 098	Liner locking nut
109	0700 025 952	Cylinder head screw M4 x 6
110	0700 025 953	O-ring 4.0 x 1.0 mm
111	361P0M1130	Coax cable for PSF 260c, 3m
	361P0M1140	Coax cable for PSF 260c, 4m
	361P0M1150	Coax cable for PSF 260c, 5m
112	308P404315	Leather hose small 1,5m long
113	306P293600	Fume extraction hose diam. 29 mm in coil
114	0700 025 482	T-piece cpl. for fume extr. hose PSF 260C cpl.
115	0700 025 486	Cable support G cpl. with 200P002009
116	0700 025 951	Adaptor nut
117	0700 025 484	Front connection for fume hose cpl. 260C
118	0700 025 488	Gas nozzle/fume shroud for PSF 260C



Torch neck PSF 415C

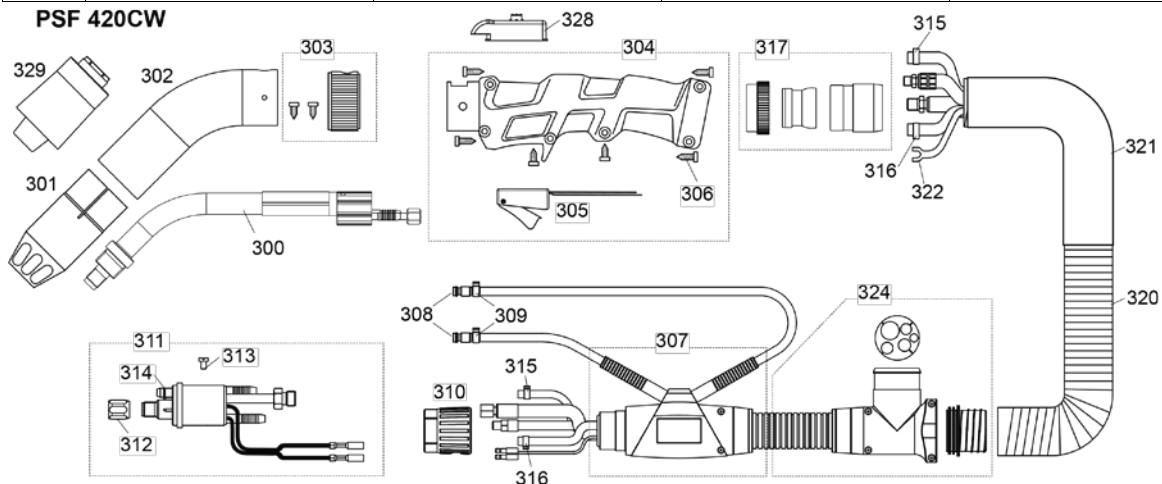
Item	Ordering no.	Denomination
200	0700 025 402	Torch neck PSF 415C
201	0700 025 471	Fume shroud PSF 415C
202	0700 025 478	Outer neck PSF 415C/420Cw
203	0700 025 477	Air regulator cpl. yellow big with screws
204	0700 025 480	Handle, black, cpl. for all fume torches Centrovac
w/o ill	0700 025 481	Handle black, for RS3 fume torches Centrovac
205	0700 025 474	Micro switch, housed, yellow, cpl.
206	0700 025 479	Set of screws for handle
207	0700 200 101	Central connector G
208	0700 200 098	Liner locking nut
209	0700 025 952	Cylinder head screw M4 x 6
210	0700 025 953	O-ring 4.0 x 1.0 mm
211	361P0L1130	Coax cable for PSF 415C, 3m
	361P0L1140	Coax cable for PSF 415C, 4m
	361P0L1150	Coax cable for PSF 415C, 5m
212	308P485115	Leather hose large 1,5m long
213	306P384600	Fume extraction hose diam. 38 mm in coil
214	0700 025 491	T-piece G for fume extr. hose PSF 415C cpl.
215	0700 025 486	Cable support G cpl. with 200P002009
216	0700 025 951	Adaptor nut
217	0700 025 485	Front connection for fume hose PSF 415C/420Cw
218	0700 025 473	Modul ESAB RS3 Centrovac
219	0700 025 489	Gas nozzle/fume shroud for PSF 415C



Torch neck PSF 420Cw

Item	Ordering no.	Denomination
300	0700 025 403	Torch neck PSF 420Cw
301	0700 025 472	Fume shroud PSF 420Cw
302	0700 025 478	Outer neck PSF 415C/420Cw
303	0700 025 477	Air regulator cpl. yellow big with screws
304	0700 025 480	Handle, black, cpl. for all fume torches Centrovac
w/o ill.	0700 025 481	Handle black, for RS3 fume torches Centrovac
305	0700 025 474	Micro switch, housed, yellow, cpl.
306	0700 025 479	Set of screws for handle
307	0700 025 487	Cable support W cpl.
308	0700 025 973	Quick connector
309	0700 025 975	Hose clamp with ring Ø 9.0
310	0700 025 951	Adaptor nut
311	0700 025 970	Central connector W
312	0700 200 098	Liner locking nut
313	0700 025 952	Cylinder head screw M4 x 6
314	0700 025 953	O-ring 4.0 x 1.0 mm
315	0700 025 974	Hose clamp with ring Ø 8.7
316	0700 025 976	Hose clamp with ring Ø 9.5
317	0700 025 485	Front connection for fume hose PSF 415C/420Cw
318	0700 025 993	PVC-Gas hose, black, 4.5 x 1.5 mm
319	0700 025 994	PVC hose, braided, black, 5 x 1.5 mm
320	306P384600	Fume extraction hose diam. 38 mm in coil
321	308P485115	Leather hose large 1,5 m long
324	0700 025 483	T-piece W for fume extr. hose PSF 420Cw cpl.
328	0700 025 473	Modul ESAB RS3 Centrovac
329	0700 025 490	Gas nozzle/fume shroud for PSF 420Cw

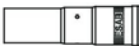
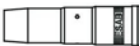
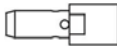

Item	Ordering no. / 3 m	Ordering no. / 4 m	Ordering no. / 5 m	Denomination
	0700 025 983	0700 025 984	0700 025 985	Water-power cable
	0700 025 986	0700 025 987	0700 025 988	Wire conduit
322	301P230431	301P230441	301P230451	Control cable cpl.

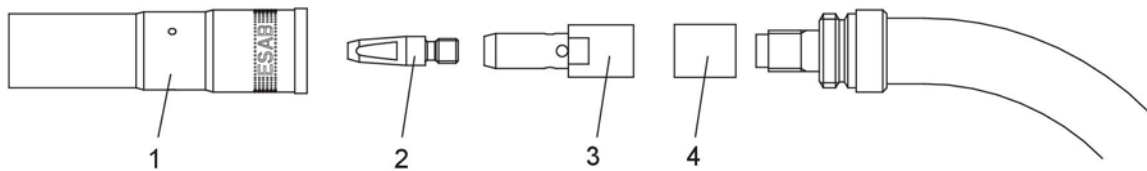


WEAR PARTS

PSF 260C

Bold = standard delivery. For contact tip, see contact tips table.

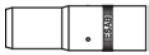
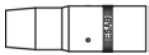
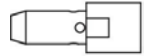


Ordering no.	Denomination	Notes	Ø	Length	
0458 464 881	Gas nozzle	Standard	14 mm	73 mm	
0458 465 881	Gas nozzle	Conical	12 mm	73 mm	
0366 314 001	Tip adaptor M6			36.6 mm	
0366 397 001	Insulation bushing				

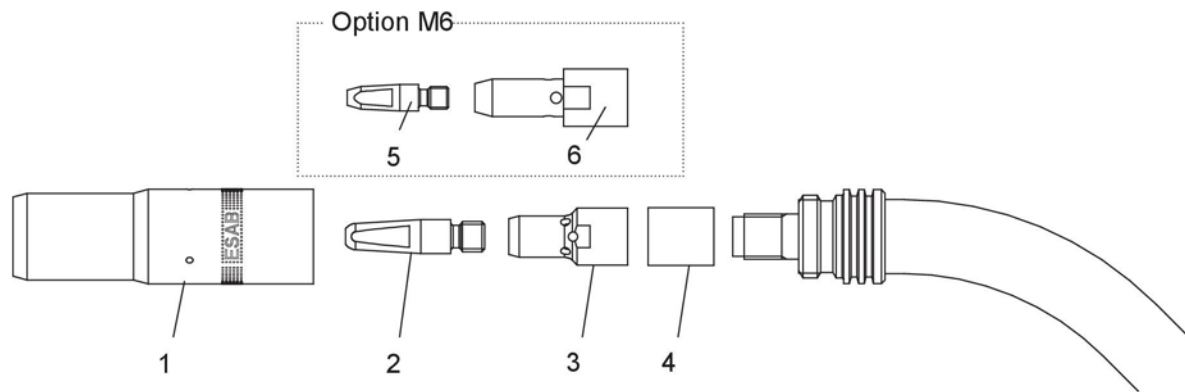


- | | |
|------------------------|-----------------------|
| 1. Gas nozzle | 3. Tip adaptor M6 |
| 2. Contact tip M6 x 27 | 4. Insulation bushing |

PSF 415C

Bold = standard delivery. For contact tip, see contact tips table.

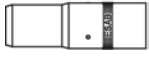
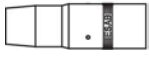
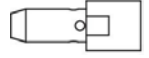


Ordering no.	Denomination	Notes	Ø	Length	
0458 464 883	Gas nozzle	Standard	17 mm	80 mm	
0458 465 883	Gas nozzle	Conical	15 mm	80 mm	
0366 394 001	Tip adaptor M6			40.6 mm	
0460 819 001	Tip adaptor M8 Cu			31.6 mm	
0700 025 851	Tip adaptor M8 brass			31.6 mm	
0366 397 002	Insulation bushing				

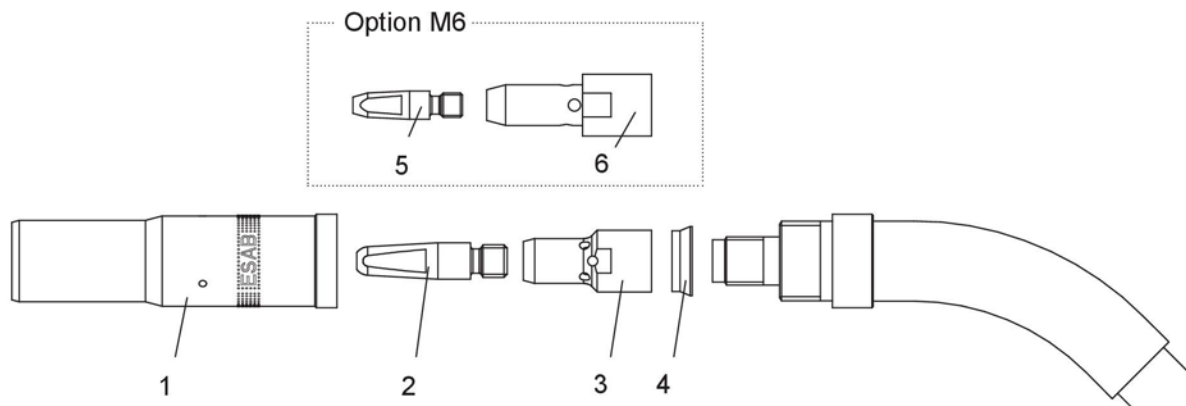


- | | |
|------------------------|------------------------|
| 1. Gas nozzle | 4. Insulation bushing |
| 2. Contact tip M8 x 37 | 5. Contact tip M6 x 27 |
| 3. Tip adaptor M8 | 6. Tip adaptor M6 |

PSF 420Cw

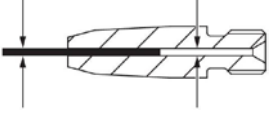
Bold = standard delivery. For contact tip, see contact tips table.

Ordering no.	Denomination	Notes	Ø	Length	
0458 464 882	Gas nozzle	Standard	16 mm	80 mm	
0458 465 882	Gas nozzle	Conical	14 mm	80 mm	
0366 394 001	Tip adaptor M6			40.6 mm	
0460 819 001	Tip adaptor M8 Cu			31.6 mm	
0700 025 851	Tip adaptor M8 brass			31.6 mm	
0458 874 001	Insulation washer				



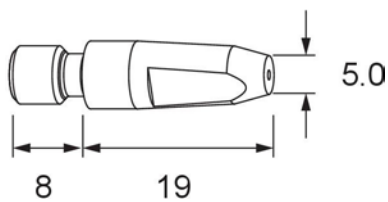
- | | |
|------------------------|------------------------|
| 1. Gas nozzle | 4. Insulation washer |
| 2. Contact tip M8 x 37 | 5. Contact tip M6 x 27 |
| 3. Tip adaptor M8 | 6. Tip adaptor M6 |

Contact tips PSF 260C, PSF 415C, PSF 420Cw

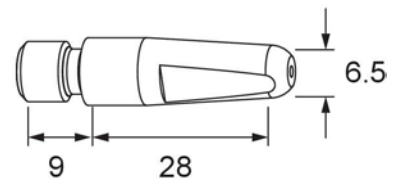
PSF 260c*	PSF 415c / PSF 420cw	Gas / wire Ø		
M6	M6	CO₂	Mix/Ar	M6
0468 500 001	0468 500 001	0.6	-	W0.6 / 0.8
0468 500 002	0468 500 002	-	0.6	W0.8 / 0.9
0468 500 003	0468 500 003	0.8	-	W0.8 / 1.0
0468 500 004	0468 500 004	0.9	0.8	W0.9 / 1.1
0468 500 005	0468 500 005	1.0	0.9	W1.0 / 1.2
0468 500 006	0468 500 006	1.2	-	W1.2 / 1.4
0468 500 007	0468 500 007	1.2	1.0	W1.2 / 1.5
0468 500 008	0468 500 008	1.4	1.2	W1.4 / 1.7
-	0468 500 009	1.6	-	W1.6 / 1.9
-	0468 500 010	-	1.6	W1.6 / 2.1

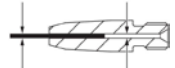
*PSF 260 only for M6 and wire 0.6 – 1.0

M6 x 27

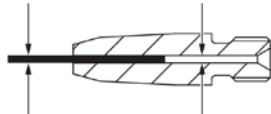


M8 x 37

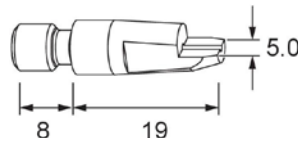


PSF 415C / PSF 420Cw	Gas / wire Ø		
M8	CO₂	Mix/Ar	M8
0468 502 003	0.8	-	W0.8 / 1.0
0468 502 004	0.9	0.8	W1.0 / 1.1
0468 502 005	1.0	0.9	W1.0 / 1.2
0468 502 006	1.2	-	W1.2 / 1.4
0468 502 007	1.2	1.0	W1.2 / 1.5
0468 502 008	1.4	1.2	W1.4 / 1.7
0468 502 009	1.6	-	W1.6 / 1.9
0468 502 010	-	1.6	W1.6 / 2.1

Contact tips M6

Contact tip	Gas / wire Ø		
	CO ₂	Mix/Ar	
M6			
0468 501 002	-	0.6	W0.8 / 1.0
0468 501 003	0.8	-	W0.9 / 1.1
0468 501 004	0.9	0.8	W1.0 / 1.2
0468 501 005	1.0	0.9	W1.2 / 1.5

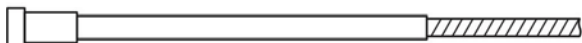
Nib M6



Steel liner

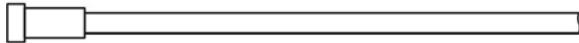
Bold = standard delivery

Ordering no.	Ø	Length	Notes	PSF 260C	PSF 415C	PSF 420Cw
0700 200 085	0.8–1.0	3 m	Blue	X		
0700 200 086	0.8–1.0	4 m	Blue	X		
0700 025 800	0.8–1.0	5 m	Blue	X		
0700 200 087	1.0–1.2	3 m	Red	X		
0700 200 088	1.0–1.2	4 m	Red	X		
0700 025 801	1.0–1.2	5 m	Red	X		
0700 025 822	0.9–1.2	3 m	Red HD		X	X
0700 025 823	0.9–1.2	4 m	Red HD		X	X
0700 025 824	0.9–1.2	5 m	Red HD		X	X
0700 025 825	1.4–1.6	3 m	Grey HD		X	X
0700 025 826	1.4–1.6	4 m	Grey HD		X	X
0700 025 827	1.4–1.6	5 m	Grey HD		X	X



PTFE liner

Ordering no.	Ø	Length	Notes	PSF 260C	PSF 415C	PSF 420Cw
0700 200 089	0.8–1.0	3 m	Blue	X	X	X
0700 200 090	0.8–1.0	4 m	Blue	X	X	X
0700 025 811	0.8–1.0	5 m	Blue	X	X	X
0700 200 091	1.0–1.2	3 m	Red	X	X	X
0700 200 092	1.0–1.2	4 m	Red	X	X	X
0700 025 812	1.0–1.2	5 m	Red	X	X	X
0700 025 813	1.2–1.6	3 m	Yellow		X	X
0700 025 814	1.2–1.6	4 m	Yellow		X	X
0700 025 815	1.2–1.6	5 m	Yellow		X	X

**PA Liner with bronze front end**

Ordering no.	Ø	Length	Notes	PSF 260C	PSF 415C	PSF 420Cw
0700 025 816	0.8–1.0	3 m	Anthracite	X	X	X
0700 025 817	0.8–1.0	4 m	Anthracite	X	X	X
0700 025 818	0.8–1.0	5 m	Anthracite	X	X	X
0700 025 819	1.2–1.6	3 m	Anthracite		X	X
0700 025 820	1.2–1.6	4 m	Anthracite		X	X
0700 025 821	1.2–1.6	5 m	Anthracite		X	X





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