



AUTOGEN-RITTER GmbH

Arc-welding torches MIG-MAG WIG/TIG Plasma Spare parts

Quality Welding Solutions since 1920.

EN

e.ARc® **TIG manual welding torches**





Content

Technical data e.ARC® TIG torches	6
Overview torch connections for air-cooled e.ARC® welding torches	8
Configurator air-cooled e.ARC® TIG torches with control cable plug	9
Configurator air-cooled e.ARC® TIG torches without control cable plug	10
Overview torch connections for water-cooled e.ARC® welding torches	11
Configurator water-cooled e.ARC® TIG torches with control cable plug	12
Configurator water-cooled e.ARC® TIG torches without control cable plug	13
Spare parts e.ARC® 18W-F / 26G-F	14
Spare parts e.ARC® 18W-F / 26G-F (Conversion kit)	16
Spare parts e.ARC® 9G-F / 9G-F-L / 20W-F / 20W-F-L	18
Spare parts e.ARC® XN-91W-F / XN-92G-F	20
Overview torch bodies e.ARC®	21
Overview handle e.ARC®	22
Cable hose package e.ARC® 9G-F / 9G-F-L	23
Cable hose package e.ARC® 26G-F / XN-92G-F	24
Machine-side e.ARC® 9G-F / 9G-F-L / 26G-F / XN-92G-F connection	25
Cable hose package e.ARC® 20W-F / 20W-F-L	28
Cable hose package e.ARC® 18W-F / XN-91W-F	29
Machine-side e.ARC® 20W-F / 20W-F-L / 18W-F / XN-91W-F connection	30
Technical data e.ARC® hot/cold wire welding torch	33
Overview torch connections for e.ARC® hot/cold wire welding torches	34
Configurator hot/cold wire e.ARC® welding torches with control cable plug	35
Hot/cold wire - support e.ARC® 18W-F	36
Spare parts hot/cold wire e.ARC® 18W-F	37
Overview torch body for hot/cold wire e.ARC® 18W-F	39
Overview handle e.ARC® for hot/cold wire	39
Cable hose package hot/cold wire e.ARC® 18W-F	40
Machine-side e.ARC® 18W-F connection with hot/cold wire	41
Conversion kit for e.ARC® 18W-F hot/cold wire	43
Spare part kits	44
Wire conduits and liners for e.ARC® hot/cold wire welding torches	45
Control cable plugs	46
Tungsten electrodes	47



e.ARC® welding torch – developed for the highest demands

The e.ARC® welding torches have been specially designed for tough industrial use, combining durability with modern operating comfort. Each handle features well-thought-out details that provide the user with tangible benefits:

- **Ergonomic design** for relaxed and precise work
- **Maximum grip safety** thanks to the non-slip rubberized handle section
- **Proven SR consumables** for easy handling and high availability
- **Modular functional concept** for maximum flexibility
- **Flexible, rotatable torch bodies** for comfortable work in any position

Large number of spare parts

Glass nozzle	
Spot weld	
Gas lens	
TIG Lens Cover	

Function module

Single switch	
Single switch long	
Double switch	
Single Up/Down	
Double Up/Down	

Large number of torch bodies

e.ARC® 9G-F/20W-F	
e.ARC® 9G-F-L/20W-F-L	
e.ARC® 18W-F/26G-F	
e.ARC® XN-91W-F/ XN-92G-F	

Handle colour

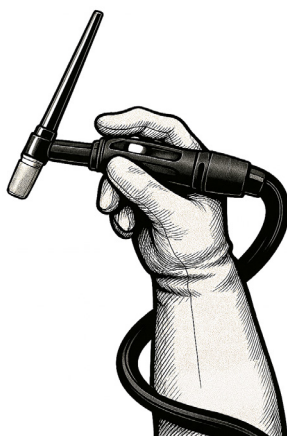
Blue	
Gray	



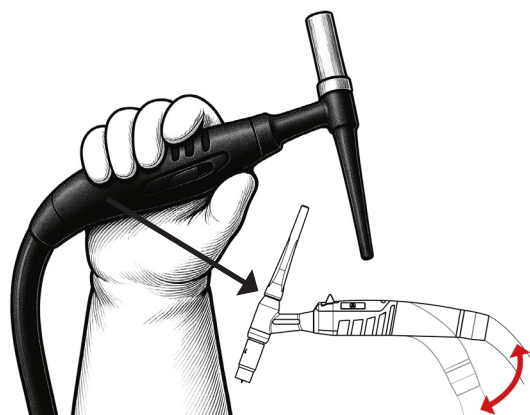
The e.ARC® handle variants - choosing the right handle

Every welder has different requirements. With the e.ARC® handle variants, you can combine precision and comfort to suit your needs – individually, ergonomically and reliably.

e.ARC® handle short



e.ARC® handle flex



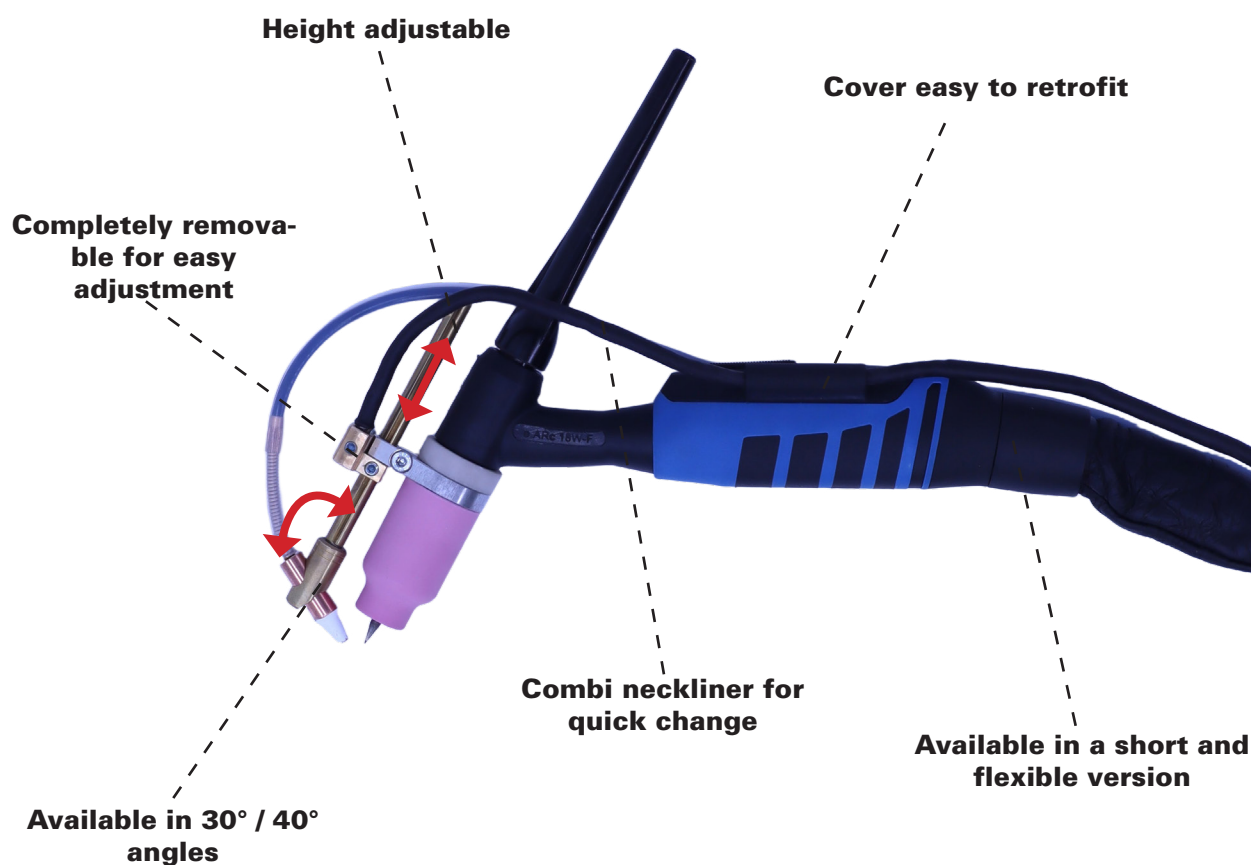
Features:	compact design, ergonomic, easy to guide	variably adjustable, adapts to any welding position
Advantages:	• maximum freedom of movement in confined areas • optimal precision for detailed work • suitable for small and large hand	• reduces fatigue during long periods of use • maximum comfort even in awkward areas • greater mobility in varying positions
Ideal for:	delicate work, fine weld seams, hard-to-reach areas	long weld seams, complex workpieces, changing working positions

The e.ARC[®] hot/cold wire system

Easy handling – designed with practical use in mind

At e.ARC[®], ease of use and practical operation take centre stage. Every detail is designed to make the welding process as comfortable and reliable as possible:

- **Hot- and cold-wire lines** available either integrated in the hose package or as a convenient retrofit kit
- **Quick adjustment** of the wire feed for smooth, uninterrupted operation
- **Various angle options** for the wire feed to ensure maximum flexibility
- **Specially coated wire nozzles** for enhanced insulation protection and significantly reduced spatter adhesion





The e.ARC® XN-System

e.ARC® XN-System – Simple, robust, reliable

The e.ARC® XN system focuses on durability and ease of use.

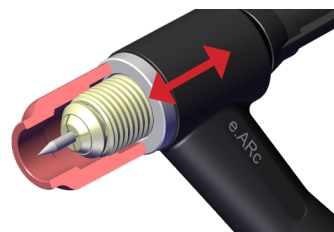
- **Optimized shielding gas flow replaces the gas lens** – fewer wear parts, higher reliability
- **Powerful even in hard-to-reach applications** – uses the same ceramic gas nozzle as SR9/20, but with higher load capacity
- **Extended collet lifetime** – improved current transfer ensures a more stable arc and increases durability

XN clamping system

Large number of spare parts

Gas lens	
TIG Lens Cover	

The collet is pulled over the torch back cap towards the torch body.



Available in a short and flexible version

Function module

Single switch	
Single switch long	
Double switch	
Single Up/Down	
Double Up/Down	

Technical data e.ARC[®] TIG torches

e.ARC[®] 18W-F



Technical data according to EN 60 974-7

Rating*¹: 400 A DC at 60 % Duty cycle
280 A AC at 60 % Duty cycle

Tungsten electrodes-Ø: 1.6 - 4.0 mm

e.ARC[®] 26G-F



Rating: 220 A DC at 35 % Duty cycle
155 A AC at 35 % Duty cycle

Tungsten electrodes-Ø: 1.6 - 4.0 mm

e.ARC[®] 20W-F



Technical data according to EN 60 974-7

Rating*¹: 270 A DC at 60 % Duty cycle
190 A AC at 60 % Duty cycle

Tungsten electrodes-Ø: 0.5 - 3.2 mm

e.ARC[®] 9G-F



Rating: 140 A DC at 35 % Duty cycle
100 A AC at 35 % Duty cycle

Tungsten electrodes-Ø: 0.5 - 3.2 mm

*¹Cooling capacity of at least 800W with a cable hose package length of 4m and a welding torch inlet pressure of the cooling liquid of 3-6bar.

e.ARC® 20W-F-L



Technical data according to EN 60 974-7

Rating*¹: 270 A DC at 60 % Duty cycle
190 A AC at 60 % Duty cycle

Tungsten electrodes-Ø: 0.5 - 3.2 mm

e.ARC® 9G-F-L



Rating: 140 A DC at 35 % Duty cycle
100 A AC at 35 % Duty cycle

Tungsten electrodes-Ø: 0.5 - 3.2 mm

e.ARC® XN-91W-F



Technical data according to EN 60 974-7

Rating*¹: 400 A DC at 60 % Duty cycle
280 A AC at 60 % Duty cycle

Tungsten electrodes-Ø: 1.6 - 4.0 mm

e.ARC® XN-92G-F



Rating: 220 A DC at 35 % Duty cycle
155 A AC at 35 % Duty cycle

Tungsten electrodes-Ø: 1.6 - 4.0 mm

*¹Cooling capacity of at least 800W with a cable hose package length of 4m and a welding torch inlet pressure of the cooling liquid of 3-6bar.



Overview torch connections for air-cooled e.Arc[®] welding torches

Single connection	M12x1		
	G1/4"		
	G3/8"		
BSB-connection	BSB SK10/25 (Ø9mm); gas: 1/4"		Optional: G1/4" union nut or plug- in nipple NW2.7
	BSB SK35/50 (Ø13mm); gas: 1/4"		
	BSB SK35/50 (Ø13mm); gas: plug- in nipple NW2.7		
TIG compact connection Fronius [®] gas central			
TIG compact connection EWM [®] SK35/50 (Ø13mm)			
Euro-GZ0			
Euro-WTG-5			
Kemppi [®] -connection			

Different connections on request!

**with adaptor*

Configurator air-cooled e.ARC® TIG torches with control cable plug

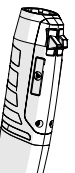
Torch type	Cable hose package length	Hose package type	Handle	Function module	Torch connection for power source
091	T	04	1	0	E1
091 e.ARC® 9G-F	04 4m	R Rubber outer cover	1 Blue, flexible	0 Single switch	<i>EWM®</i> E1 TIG compact connection SK35/50; gas: 1/4" union nut; 5 pol. Tuchel plug
092 e.ARC® 9G-F-L	08 8m	L Flex + leather (1m)	2 Gray, flexible	1 Double switch	E2 TIG compact connection SK35/50; gas: 1/4" union nut; 8 pol. Burndy plug
261 e.ARC® 26G-F	12 12m		3 Blue, short	2 Double Up/Down	<i>Fronius®</i> F1 TIG compact connection gas central; 9 pol. Tuchelstecker
192 e.ARC® XN-92G-F	16 16m		4 Gray, short	3 Single switch long	<i>Kemppti®</i> K1 Kemppti®-connection G1/4"; 7 pol. Amphenol plug
				4 Single Up/Down	<i>Rehm®</i> R1 TIG compact connection SK35/50; gas: plug-in nipple NW2.7; 12 pol. Amphenol plug R2 TIG compact connection SK35/50; gas: plug-in nipple NW2.7; 7 pol. Amphenol plug

Different connections on request!

Delivery condition:

All TIG torches are equipped with spare parts Ø2.4mm.

Configurator air-cooled e.ARc® TIG torches without control cable plug

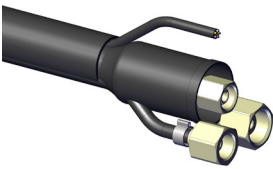
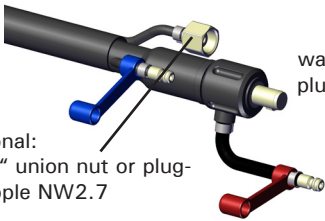
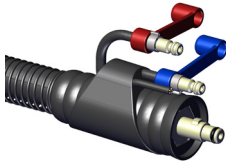
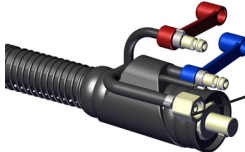
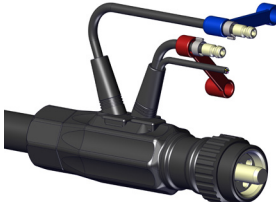
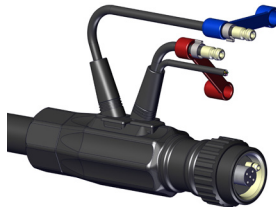
Torch type		Cable hose package length	Hose package type	Handle	Function module	Torch connection for power source
091	T	04	R	1	0	10
091 e.ARC® 9G		04 4m	R Rubber outer cover	1 Blue, flexible 	0 Single switch 	10 Single connection M12x1 11 Single connection G1/4
092 e.ARC® 9G-L		08 8m	L Flex + leather (1m)	2 Gray, flexible 	1 Double switch 	12 Single connection G3/8 20 BSB 35/50 (Ø13mm), gas: 1/4"
261 e.ARC® 26G		12 12m		3 Blue, short 	2 Double Up/Down 	22 BSB 35/50 (Ø13mm), gas: NW2.7 30 BSB 10/25 (Ø9mm), gas: 1/4"
192 e.ARC® XN-92G-F		16 16m		4 Gray, short 	3 Single switch long 	FO TIG compact connection gas central 40 Euro-GZ0
					4 Single Up/Down 	41 Euro-WTG-5

Different connections on request!

Delivery condition:

All TIG torches are equipped with spare parts Ø2.4mm.

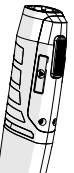
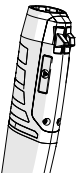
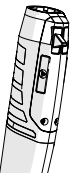
Overview torch connections for water-cooled e.Arc® welding torches

Single connection	M12x1	 gas: G1/4" water: G3/8"
	G1/4"*	
	G3/8"*	
BSB-connection	BSB SK35/50 (Ø13mm); gas: 1/4"	 water: plug-in nipple NW5 Optional: G1/4" union nut or plug-in nipple NW2.7
	BSB SK35/50 (Ø13mm); gas: 3/8"	
	BSB SK35/50 (Ø13mm); gas: plug-in nipple NW2.7	
TIG compact connection Fronius® gas central		 water: plug-in nipple NW5
TIG compact connection EWM® SK35/50 (Ø13mm)		 water: plug-in nipple NW5 Optional: G1/4" union nut or plug-in nipple NW2.7
Euro-WZ0		 water: plug-in nipple NW5 
Euro-WTW-5		 water: plug-in nipple NW5 
Kemppi®-connection		 water: plug-in nipple NW5

Different connections on request!

**with adaptor*

Configurator water-cooled e.ARc® TIG torches with control cable plug

Torch type	Cable hose package length	Hose package type	Handle	Function module	Torch connection for power source
201	04	R	1	0	E1
201 e.ARc® 20W-F	04 4m	R Rubber outer cover	1 Blue, flexible 	0 Single switch 	<u>EW/M®</u> E1 TIG compact connection SK35/50; water: plug-in nipple NW5 gas: 1/4" union nut; 5 pol. Tuchel plug
202 e.ARc® 20W-F-L	08 8m	L leather (1m) with rubber outer cover	2 Gray, flexible 	1 Double switch 	E2 TIG compact connection SK35/50; water: plug-in nipple NW5 gas: 1/4" union nut; 8 pol. Burndy plug
181 e.ARc® 18W-F	12 12m		3 Blue, short 	2 Double Up/Down 	<u>Fronius®</u> F1 TIG compact connection gas central,; water: plug-in nipple NW5 9 pol. Tuchel plug
191 e.ARc® XN-91W-F	16 16m		4 Gray, short 	3 Single switch long 	<u>Kemppi®</u> F1 TIG compact connection gas central,; water: plug-in nipple NW5 9 pol. Tuchel plug
				4 Single Up/Down 	<u>Rehm®</u> K1 Kemppi®-connection G1/4", water: plug-in nipple NW5 7 pol. Amphenol plug
					R1 TIG compact connection SK35/50; water: plug-in nipple NW5 gas: plug-in nipple NW2.7; 12 pol. Amphenol plug
					R2 TIG compact connection SK35/50; water: plug-in nipple NW5 gas: plug-in nipple NW2.7; 7 pol. Amphenol plug

Different connections on request!

Delivery condition:

All TIG torches are equipped with spare parts Ø2.4mm.

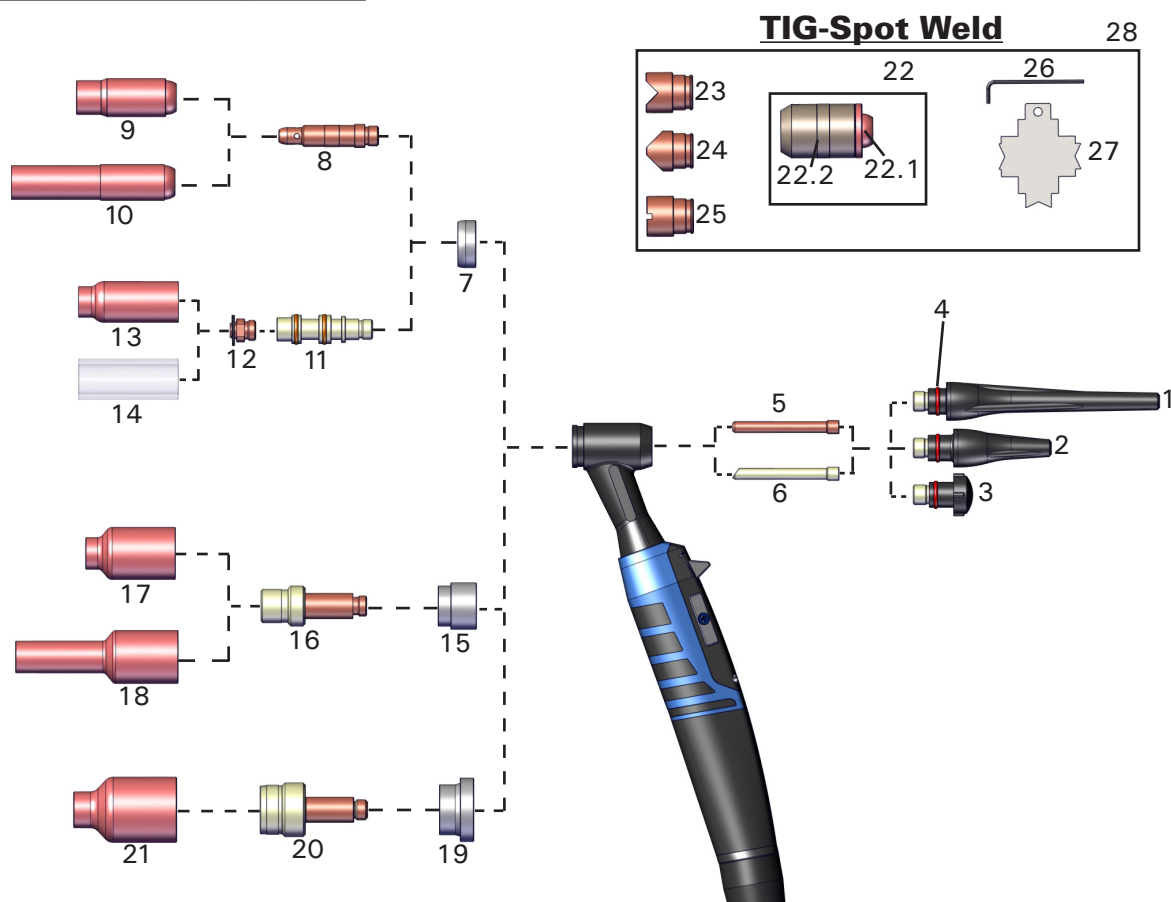
Configurator water-cooled e.Arc® TIG torches without control cable plug

Torch type	Cable hose package length	Hose package type	Handle	Function module	Torch connection for power source
091	T	04	1	0	10
201 e.Arc® 20W-F	04 4m	R Rubber outer cover	1 Blue, flexible	0 Single switch	10 Single connection M12x1; G1/4"; G3/8"
202 e.Arc® 20W-F-L	08 8m	L leather (1m) with rubber outer cover	2 Gray, flexible	1 Double switch	11 Single connection G1/4"; G1/4"; G3/8"
181 e.Arc® 18W-F	12 12m		3 Blue, short	2 Double Up/Down	12 Single connection G3/8"; G1/4"; G3/8"
191 e.Arc® XN-91W-F	16 16m		4 Gray, short	3 Single switch long	20 BSB 35/50 (Ø13mm), Gas: 1/4"; NW5
				4 Single Up/Down	22 BSB 35/50 (Ø13mm), Gas: 3/8"; NW5
					30 BSB 35/50 (Ø13mm), Gas: NW2.7; NW5
					F0 TIG compact connection gas central; NW5
					40 Euro-WZO; NW5
					41 Euro-WTW-5; NW5

Different connections on request!

Delivery condition:

All TIG torches are equipped with spare parts Ø2.4mm.

Spare parts e.Arc® 18W-F / 26G-F

Spare Parts

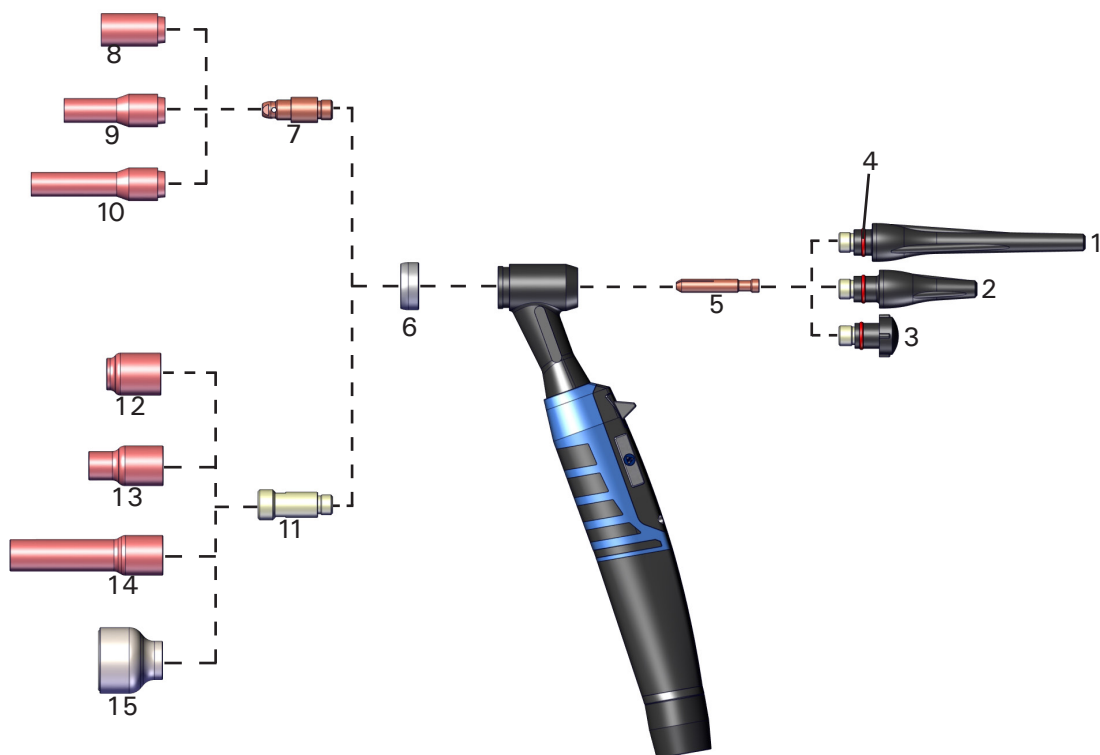
Pos.	Part No.	Description	Pos.	Part No.	Description
1	1170301	Back Cap, long (PU = 5)	8	1180610	Collet Body Ø1.0, l=47mm (PU=5)
2	1170403	Back Cap, medium (PU = 5)		1180616	Collet Body Ø1.6, l=47mm (PU=5)
3	1170401	Back Cap, short (PU = 5)		1180624	Collet Body Ø2.4, l=47mm (PU=5)
4	0092001	O-Ring for Back Cap (PU = 20)		1180632	Collet Body Ø3.2, l=47mm (PU=5)
5	11704 XX	Collet, l=50mm (PU = 5)		1180640	Collet Body Ø4.0, l=47mm (PU=5)
Collets are available in Ø1.0/1.6/2.4/3.2/4.0mm Please insert XX for electrode diameter. Example: Ø1.0 mm is: 10; Part-No.: = 11704 10			9	1170704	Ceramic Nozzle Size 4, Ø6.5, l=47mm (PU = 10)
6	13504 XX	Collet Long Life, l=50mm (PU = 5)		1170705	Ceramic Nozzle Size 5, Ø8.0, l=47mm (PU = 10)
Collets are available in Ø1.0/1.6/2.4/3.2/4.0mm Please insert XX for electrode diameter. Example: Ø1.0 mm is: 10; Part-No.: = 13504 10				1170706	Ceramic Nozzle Size 6, Ø9.5, l=47mm (PU = 10)
7	14022061	Insulator (PU = 5)		1170707	Ceramic Nozzle Size 7, Ø11.0, l=47mm (PU = 10)
				1170708	Ceramic Nozzle Size 8, Ø12.5, l=47mm (PU = 10)
				1170710	Ceramic Nozzle Size 10, Ø16.0, l=47mm (PU = 10)
				1170712	Ceramic Nozzle Size 12, Ø19.0, l=47mm (PU = 10)


Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
10	10N50L	Ceramic Nozzle Size 4, Ø6.5, l = 76mm (PU = 10)	18	54N18L	Ceramic Nozzle Size 4 for Gas Lens, Ø6.5, l = 76mm (PU = 10)
	10N49L	Ceramic Nozzle Size 5, Ø8.0, l = 76mm (PU = 10)		54N17L	Ceramic Nozzle Size 5 for Gas Lens, Ø8.0, l = 76mm (PU = 10)
	10N48L	Ceramic Nozzle Size, Ø9.5, l = 76mm (PU = 10)		54N16L	Ceramic Nozzle Size 6 for Gas Lens, Ø9.5, l = 76mm (PU = 10)
	10N47L	Ceramic Nozzle Size 7, Ø11.0, l = 76mm (PU = 10)		54N15L	Ceramic Nozzle Size 7 for Gas Lens, Ø11.0, l = 76mm (PU = 10)
	10N46L	Ceramic Nozzle Size 8, Ø12.5, l = 76mm (PU = 10)		54N14L	Ceramic Nozzle Size 8 for Gas Lens, Ø12.5, l = 76mm (PU = 10)
11	1350620	Collet Body, l = 45mm	19	1402216	Insulator (PU = 5)
12	13523XX	Adapter, l = 12mm	20	45V0204	Big Gas Lens Ø1.0mm, l = 50mm
Adapter for Collet Body are available in Ø1.0/1.6/2.4/3.2/4.0mm. Please insert XX for electrode diameter. Example: Ø1.0 mm is: 10; Part-No.: = 13523 10				45V116	Big Gas Lens Ø1.6mm, l = 50mm
				45V64	Big Gas Lens Ø2.4mm, l = 50mm
13	1351704	Ceramic Nozzle Size 4, Ø6.5, l = 47mm		995795	Big Gas Lens Ø3.2mm, l = 50mm
	1351705	Ceramic Nozzle Size 5, Ø8.0, l = 47mm		45V63	Big Gas Lens Ø4.0mm, l = 50mm
	1351706	Ceramic Nozzle Size 6, Ø9.5, l = 47mm	21	53N88	Ceramic Nozzle Size 10 for Big Gas Lens, Ø16.0, l = 48mm (PU = 10)
	1351707	Ceramic Nozzle Size 7, Ø11.0, l = 47mm		53N87	Ceramic Nozzle Size 12 for Big Gas Lens, Ø19.5, l = 48mm (PU = 10)
	1351708	Ceramic Nozzle Size 8, Ø12.5, l = 47mm		53N89	Ceramic Nozzle Size 16 for Big Gas Lens, Ø25.5, l = 48mm (PU = 10)
14	1350720	Glas-Nozzle, Ø14.0, l = 47mm	22	15611110	Nozzle holder Spot Weld cpl.
15	14022121	Insulator (PU = 5)	22.1	15611111	Adaptar body
16	11823XX	Collet Body with Gas Lens, l = 50mm (PU = 5)	22.2	15611101	Insulator
Collet Body with Gas Lens available in Ø1.0/1.6/2.4/3.2/4.0 mm. Please insert XX for electrode diameter. Example: Ø2,4 mm is: 10; Part-No.: = 11826 24			23	15611011	Outside corner tip
			24	15611021	Inside corner tip
17	1210704	Ceramic Nozzle Size 4 for Gas Lens, Ø6.5, l = 42mm (PU = 10)	25	15611031	Flat tip
	1210705	Ceramic Nozzle Size 5 for Gas Lens, Ø8.0, l = 42mm (PU = 10)	26	15611000	Allen key
	1210706	Ceramic Nozzle Size 6 for Gas Lens, Ø9.5, l = 42mm (PU = 10)	27	1561120	Gauge
	1210707	Ceramic Nozzle Size 7 for Gas Lens, Ø11.0, l = 42mm (PU = 10)	28	1560003	TIG-Spot Weld Conversion kit, consists of: 1x 15611110 Nozzle holder Spot Weld cpl. 1x 15611011 Outside corner tip 1x 15611021 Inside corner tip 1x 15611031 Flat tip 1x 15611000 Allen key 1x 1561120 Gauge
	1210708	Ceramic Nozzle Size 8 for Gas Lens Ø12.5, l = 42mm (PU = 10)			
	1210712	Ceramic Nozzle Size 12 for Gas Lens Ø19.0, l = 42mm (PU = 10)			



Spare parts e.ARC® 18W-F / 26G-F (Conversion kit)

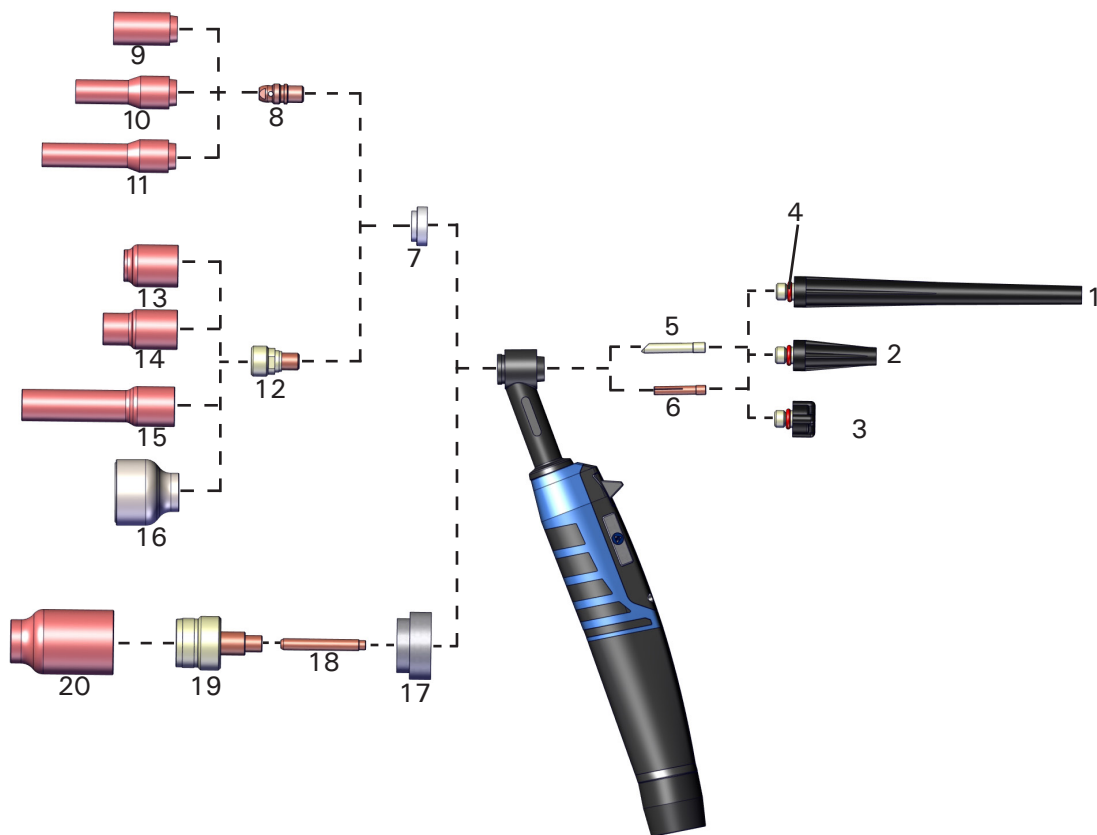


Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	1170301	Back Cap, long (PU = 5)	8	1200704	Ceramic Nozzle Size 4 Ø6.5, l = 29mm (PU = 10)
2	1170403	Back Cap, medium (PU = 5)		1200705	Ceramic Nozzle Size 5 Ø8.0, l = 29mm (PU = 10)
3	1170401	Back Cap, short (PU = 5)		1200706	Ceramic Nozzle Size 6 Ø9.5, l = 29mm (PU = 10)
4	0092001	O-Ring for Back Cap (PU = 20)		1200707	Ceramic Nozzle Size 7 Ø11.0, l = 29mm (PU = 10)
5	14014XX	Collet, l = 40mm, e.ARC® (PU = 5)		1200708	Ceramic Nozzle Size 8 Ø12.5, l = 29mm (PU = 10)
Collets are available in Ø1.6/2.4/3.2mm Please insert XX for electrode diameter. Example: Ø1.6mm is: 16; Part-No.: = 14014 16				1200710	Ceramic Nozzle Size 10 Ø16.0, l = 42mm (PU = 10)
6	14022011	Insulator e.ARC® (PU = 5)	9	796F70	Ceramic Nozzle Size 3 Ø5.0, l = 48mm (PU = 10)
7	14016XX	Collet Body, l = 33mm, e.ARC (PU = 5)		796F71	Ceramic Nozzle Size 4 Ø6.5, l = 48mm (PU = 10)
Collet Body available in Ø1.6/2.4/3.2mm Please insert XX for electrode diameter. Example: Ø2.4mm is: 24; Part-No.: = 14016 24				796F72	Ceramic Nozzle Size 5 Ø8.0, l = 48mm (PU = 10)
				796F73	Ceramic Nozzle Size 6 Ø9.5, l = 48mm (PU = 10)
				796F74	Ceramic Nozzle Size 3 Ø5.0, l = 63mm (PU = 10)
				796F75	Ceramic Nozzle Size 4 Ø6.5, l = 63mm (PU = 10)
				796F76	Ceramic Nozzle Size 5 Ø8.0, l = 63mm (PU = 10)
				796F77	Ceramic Nozzle Size 6 Ø9.5, l = 63mm (PU = 10)

**Spare parts**

Pos.	Part No.	Description	Pos.	Part No.	Description
11	14023 XX	Collet Body with Gas Lens, l=35mm, e.ARC® (PU=5) Collet Body with Gas Lens available in Ø1.6/2.4/3.2mm. Please insert XX for electrode diameter. Example: Ø2,4mm is: 10; Part-No.: = 14023 24	14	53N58XL	Ceramic Nozzle Size 4 for Gas Lens, Ø6.5, l= 72mm (PU= 10)
				53N59XL	Ceramic Nozzle Size 5 for Gas Lens, Ø8.0, l= 72mm (PU= 10)
				53N61XL	Ceramic Nozzle Size 7 for Gas Lens, Ø11.0, l= 72mm (PU= 10)
12	1202404	Ceramic Nozzle Size 4 for Gas Lens, Ø6.5, l= 25mm (PU= 10)	15	99400028	Nozzle cpl. TIG-Lens Cover Ø1.6, l= 28mm
	1202405	Ceramic Nozzle Size 5 for Gas Lens, Ø8.0, l= 25mm (PU= 10)		99400029	Nozzle cpl. TIG-Lens Cover Ø2.4, l= 28mm
	1202406	Ceramic Nozzle Size 6 for Gas Lens, Ø9.5, l= 25mm (PU= 10)		99400030	Nozzle cpl. TIG-Lens Cover Ø3.2, l= 28mm
	1202407	Ceramic Nozzle Size 7 for Gas Lens, Ø11.0, l= 25mm (PU= 10)			
	1202408	Ceramic Nozzle Size 8 for Gas Lens, Ø12.5, l= 25mm (PU= 10)			
13	53N58L	Ceramic Nozzle Size 4 for Gas Lens, Ø6.5, l= 35mm (PU= 10)			
	53N59L	Ceramic Nozzle Size 5 for Gas Lens, Ø8.0, l= 35mm (PU= 10)			
	53N60L	Ceramic Nozzle Size 6 for Gas Lens, Ø9.5, l= 35mm (PU= 10)			
	53N61L	Ceramic Nozzle Size 7 for Gas Lens, Ø11.0, l= 35mm (PU= 10)			

**Spare parts e.Arc® 9G-F / 9G-F-L / 20W-F / 20W-F-L****Spare parts**

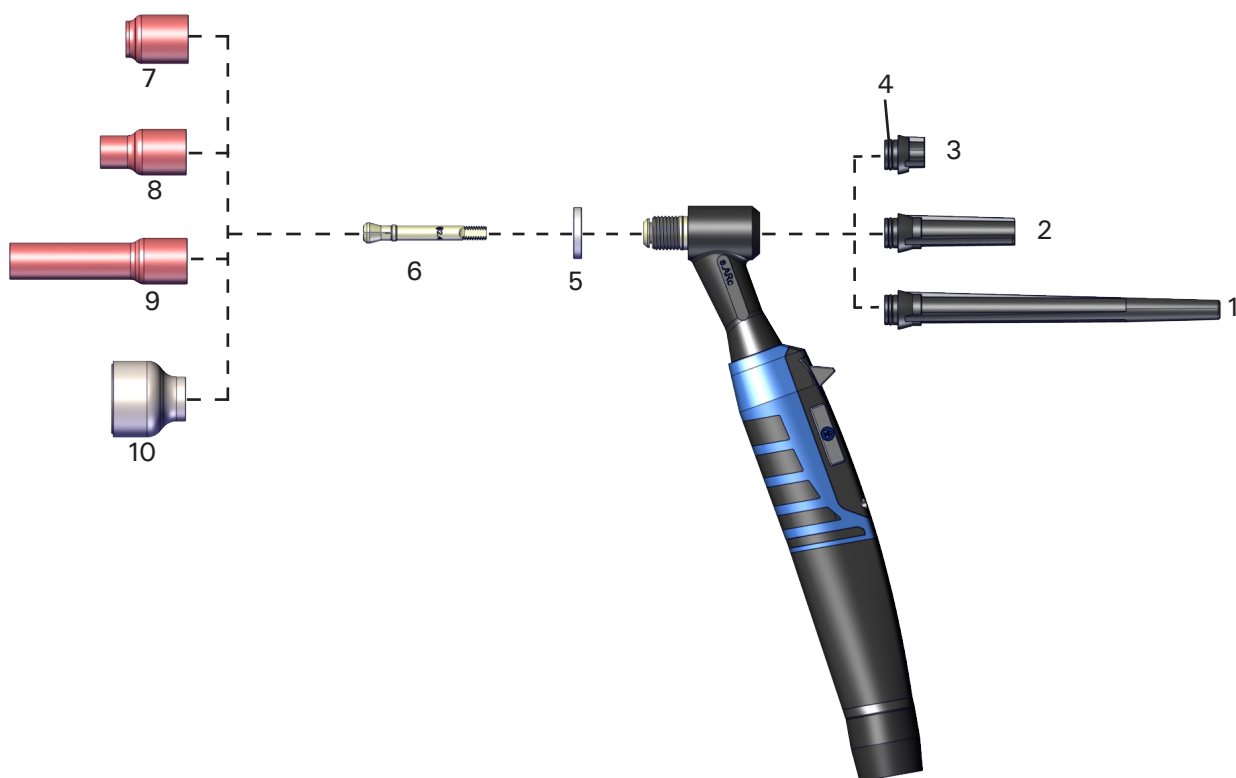
Pos.	Part No.	Description	Pos.	Part No.	Description
1	1090210	Back Cap, long (PU = 5)	8	12016 XX	Collet Body, l = 20.5mm (PU = 5) Collet Body available in Ø1.0/1.6/2.4/3.2/4.0 mm Please insert XX for wire diameter. Example: Ø2.4 mm is: 24; Part-No.: = 12016 24
2	1090211	Back Cap, medium (PU = 5)	9	1200704	Ceramic Nozzle Size 4, Ø6.5, l = 30mm (PU = 10)
3	1090212	Back Cap, short (PU = 5)		1200705	Ceramic Nozzle Size 5, Ø8.0, l = 30mm (PU = 10)
4	0042000	O-Ring for Back Cap (PU = 20)		1200706	Ceramic Nozzle Size 6, Ø9.5, l = 30mm (PU = 10)
5	14504 XX	Collet Long Life, l = 25mm (PU = 5) Collets are available in Ø1.0/1.6/2.4/3.2/4.0mm Please insert XX for electrode diameter. Example: Ø1.0 mm is: 10; Part-No.: = 14504 10		1200707	Ceramic Nozzle Size 7, Ø11.0, l = 30mm (PU = 10)
6	12005 XX	Collet, l = 25mm (PU = 5) Collets are available in Ø1.0/1.6/2.4/3.2/4.0mm Please insert XX for electrode diameter. Example: Ø1.0 mm is: 10; Part-No.: = 12005 10		1200708	Ceramic Nozzle Size 8, Ø12.5, l = 30mm (PU = 10)
7	1202200	Insulator (PU = 5)	10	796F70	Ceramic Nozzle Size 10, Ø16.0, l = 30mm (PU = 10)
				796F71	Ceramic Nozzle Size 3, Ø5.0, l = 48mm (PU = 10)
				796F72	Ceramic Nozzle Size 4, Ø6.5, l = 48mm (PU = 10)
				796F73	Ceramic Nozzle Size 5, Ø8.0, l = 48mm (PU = 10)
					Ceramic Nozzle Size 6, Ø9.5, l = 48mm (PU = 10)


Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
11	796F74	Ceramic Nozzle Size 3, Ø5.0, l = 63mm (PU = 10)	16	99400028	TIG-Lens Cover Ø1.6, l = 28mm
	796F75	Ceramic Nozzle Size 4, Ø6.5, l = 63mm (PU = 10)		99400029	TIG-Lens Cover Ø2.4, l = 28mm
	796F76	Ceramic Nozzle Size 5, Ø8.0, l = 63mm (PU = 10)		99400030	TIG-Lens Cover Ø3.2, l = 28mm
	796F77	Ceramic Nozzle Size 6, Ø9.5, l = 63mm (PU = 10)	17	54N63-20	Insulator (PU = 5)
12	12023 XX	Collet Body with Gas Lens, l = 22.5mm (PU = 5)	18	13N21L	Collet Ø1.0, for BIG Gas Lens, l = 40mm (PU = 5)
Collet Body with Gas Lens available in Ø1.0/1.6/2.4/3.2/4.0mm. Please insert XX for electrode diameter. Example: Ø2,4mm is: 10; Part-No.: = 12023 24				13N22L	Collet Ø1.6, for BIG Gas Lens, l = 40mm (PU = 5)
				13N23L	Collet Ø2.4, for BIG Gas Lens, l = 40mm (PU = 5)
				13N24L	Collet Ø3.2, for BIG Gas Lens, l = 40mm (PU = 5)
13	1202404	Ceramic Nozzle Size 4, Ø6.5, l = 25mm (PU = 10)	19	45V0204S	Big Gas Lens Ø1.0mm, l = 40mm
	1202405	Ceramic Nozzle Size 5, Ø8.0, l = 25mm (PU = 10)		45V116S	Big Gas Lens Ø1.6mm, l = 40mm
	1202406	Ceramic Nozzle Size 6, Ø9.5, l = 25mm (PU = 10)		45V64S	Big Gas Lens Ø2.4mm, l = 40mm
	1202407	Ceramic Nozzle Size 7, Ø11.0, l = 25mm (PU = 10)		995795S	Big Gas Lens Ø3.2mm, l = 40mm
	1202408	Ceramic Nozzle Size 8, Ø12.5, l = 25mm (PU = 10)	20	57N75	Ceramic Nozzle Size 6 for Big Gas Lens, Ø9.5, l = 48mm (PU = 10)
14	53N58L	Ceramic Nozzle Size 4, Ø6.5, l = 35mm (PU = 10)		57N74	Ceramic Nozzle Size 8 for Big Gas Lens, Ø12.5, l = 48mm (PU = 10)
	53N59L	Ceramic Nozzle Size 5, Ø8.0, l = 35mm (PU = 10)		53N88	Ceramic Nozzle Size 10 for Big Gas Lens, Ø16.0, l = 48mm (PU = 10)
	53N60L	Ceramic Nozzle Size 6, Ø9.5, l = 35mm (PU = 10)		53N87	Ceramic Nozzle Size 12 for Big Gas Lens, Ø19.5, l = 48mm (PU = 10)
	53N61L	Ceramic Nozzle Size 7, Ø11.0, l = 35mm (PU = 10)		53N89	Ceramic Nozzle Size 15 for Big Gas Lens, Ø25.5, l = 48mm (PU = 10)
15	53N58XL	Ceramic Nozzle Size 4, Ø6.5, l = 72mm (PU = 10)			
	53N59XL	Ceramic Nozzle Size 5, Ø8.0, l = 72mm (PU = 10)			
	53N61XL	Ceramic Nozzle Size 7, Ø11.0, l = 72mm (PU = 10)			



Spare parts e.Arc® XN-91W-F / XN-92G-F

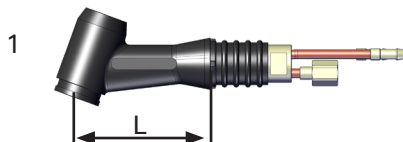


Spare parts

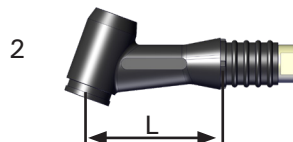
Pos.	Part No.	Description	Pos.	Part No.	Description
1	1920301	Back Cap, long (PU = 5)	7	1202406	Ceramic Nozzle Size 6, Ø9.5, l = 25mm (PU = 10)
2	1920302	Back Cap, medium (PU = 5)		1202407	Ceramic Nozzle Size 7, Ø11.0, l = 25mm (PU = 10)
3	1920303	Back Cap, short (PU = 5)		1202408	Ceramic Nozzle Size 8, Ø12.5, l = 25mm (PU = 10)
4	0101200	O-Ring for Back Cap (PU = 20)	8	53N58L	Ceramic Nozzle Size 4, Ø6.5, l = 35mm (PU = 10)
5	1920123	Insulator (PU = 5)		53N59L	Ceramic Nozzle Size 5, Ø8.0, l = 35mm (PU = 10)
6	194001233	Collet Ø1.6mm, l = 50mm (PU = 5)		53N60L	Ceramic Nozzle Size 6, Ø9.5, l = 35mm (PU = 10)
	194001243	Collet Ø2.4mm, l = 50mm (PU = 5)		53N61L	Ceramic Nozzle Size 7, Ø11.0, l = 35mm (PU = 10)
	194001253	Collet Ø3.2mm, l = 50mm (PU = 5)	9	53N58XL	Ceramic Nozzle Size 4, Ø6.5, l = 72mm (PU = 10)
	194001263	Collet Ø4.0mm, l = 50mm (PU = 5)		53N59XL	Ceramic Nozzle Size 5, Ø8.0, l = 72mm (PU = 10)
7	1202404	Ceramic Nozzle Size 4, Ø6.5, l = 25mm (PU = 10)		53N61XL	Ceramic Nozzle Size 7, Ø11.0, l = 72mm (PU = 10)
	1202405	Ceramic Nozzle Size 5, Ø8.0, l = 25mm (PU = 10)	10	99400028	TIG-Lens Cover Ø1.6, l = 28mm
				99400029	TIG-Lens Cover Ø2.4, l = 28mm
				99400030	TIG-Lens Cover Ø3.2, l = 28mm

Overview torch bodies e.ARC®

e.ARC® 18W-F



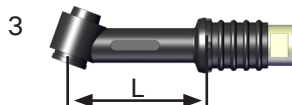
e.ARC® 26G-F



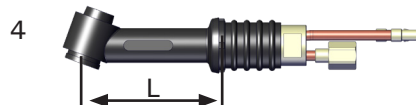
Spare parts

Pos.	Part No.	Description	L [mm]	Pos.	Part No.	Description	L [mm]
1	1181T100	Torch body e.ARC® 18W-F	55	2	1261T100	Torch body e.ARC® 26G-F	55

e.ARC® 9G-F



e.ARC® 20W-F



Spare parts

Pos.	Part No.	Description	L [mm]	Pos.	Part No.	Description	L [mm]
3	1201T100	Torch body e.ARC® 20W-F	55	4	1091T100	Torch body e.ARC® 9G-F	55

e.ARC® 9G-F-L



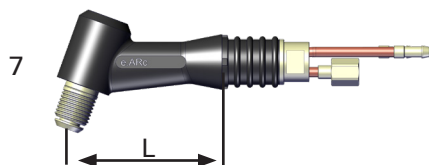
e.ARC® 20W-F-L



Spare parts

Pos.	Part No.	Description	L [mm]	Pos.	Part No.	Description	L [mm]
5	1092T100	Torch body e.ARC® 9G-F-L	115	6	1202T100	Torch body e.ARC® 20W-F-L	115

e.ARC® XN-91W-F



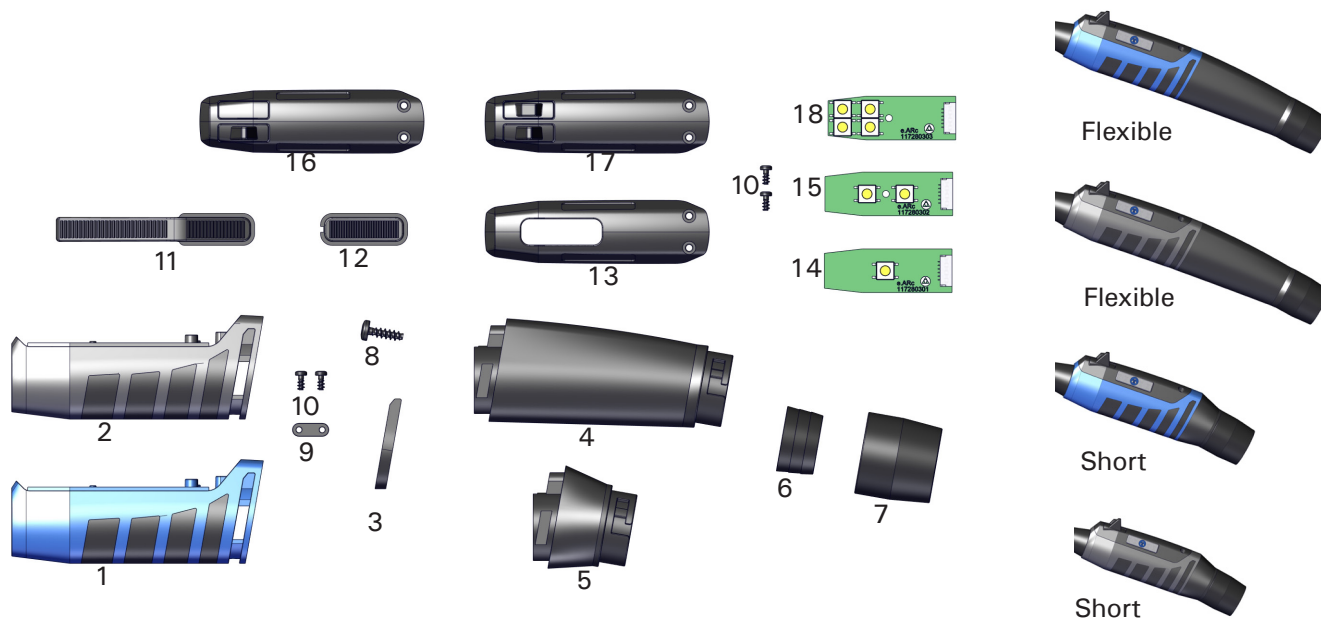
e.ARC® XN-92G-F



Spare parts

Pos.	Part No.	Description	L [mm]	Pos.	Part No.	Description	L [mm]
7	1911T100	Torch body e.ARC® XN-91W-F	55	8	1921T100	Torch body e.ARC® XN-92G-F	55

Overview handle e.ARC®

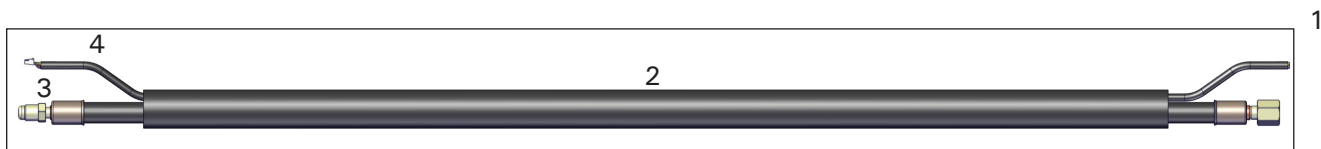


Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	117280101	Handle e.ARC® blue	10	002205K	Screw Torx (PU = 20)
2	117280102	Handle e.ARC® gray	11	117280231	Extended Trigger for single switch, black
3	117280111	Clamp for handle e.ARC®	12	117280230	Trigger for single switch, black
4	117280110	Flexible kink protection e.ARC®	13	117280201	Cover for single/double switch, black
5	117280115	Short kink protection e.ARC®	14	117280301	Single Switch PCB
6	117280112	Clamping ring for cover hose e.ARC®	15	117280302	Double Switch PCB
7	117280113	Nut for kink protection e.ARC®	16	117280100SET05	Cover for single lever cpl., black
8	003512K	Screw Torx (PU = 20)	17	117280100SET06	Cover for Up/Down cpl., black
9	117280114	Strain relief e.ARC®	18	117280303	Up/Down PCB

Cable hose package e.Arc® 9G-F / 9G-F-L

Standard cable hose package

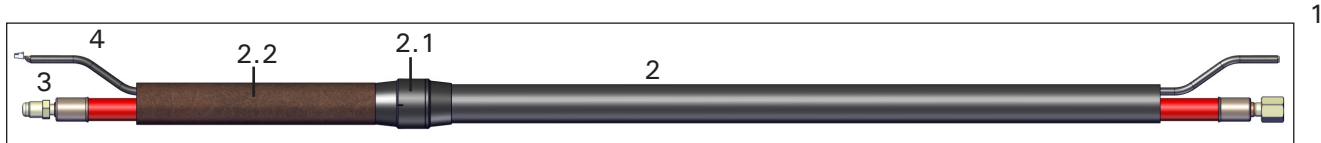


Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	091TXX002	Cable hose package standard X m cpl.	3	091T41XX1	Power gas cable X m cpl.
2	92572124	Rubber outer cover 21x1.5 (PU = 60m)	4	0510614-XX6	Control cable 6 pol., one side with flat connector, l = X.6m

Pos. 1/3/4 are available in 4m (04) / 8m (08) / 12m (12) / 16m (16)
Please insert at XX the length.
Example: Pos.1 Cable hose package standard 8m cpl. is: 08; Part-No.: = 091T08002

Flex cable hose package with leather



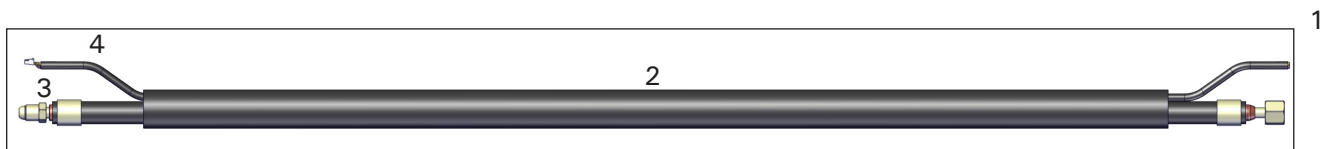
Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	091TXX002L	Flex cable hose package with leather (1m), X m cpl.	3	091T41XX1F	Power gas cable flex X m cpl.
2	92572124	Rubber outer cover 21x1.5 (PU = 60m)	4	0510614-XX6	Control cable 6 pol., one side with flat connector, l = X.6m
2.1	1172651	Leather/rubber connector			
2.2	ARLS-23100	Leather l = 1m			

Pos. 1/3/4 are available in 4m (04) / 8m (08) / 12m (12) / 16m (16)
Please insert at XX the length.
Example: Pos.1 Flex cable hose package with leather 8m cpl. is: 08; Part-No.: = 091T08002L

Cable hose package e.Arc® 26G-F / XN-92G-F

Standard cable hose package

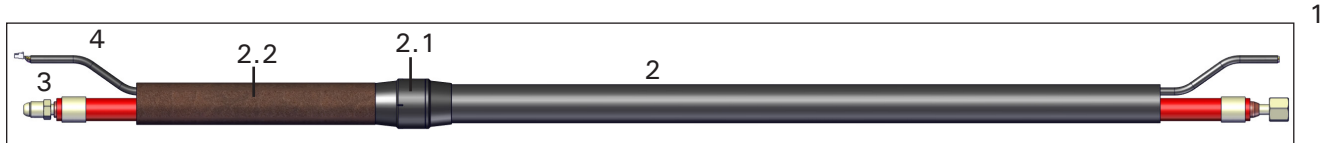


Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	261TXX002	Cable hose package standard X m cpl.	3	261T41XX1	Power gas cable X m cpl.
2	92572124	Rubber outer cover 21x1.5 (PU = 60m)	4	0510614-XX6	Control cable 6 pol., one side with flat connector, l = X.6m

Pos. 1/3/4 are available in 4m (04) / 8m (08) / 12m (12) / 16m (16)
Please insert at **XX** the length.
Example: Pos.1 Cable hose package standard 8m cpl. is: 08; Part-No.: = 261T**08**002

Flex cable hose package with leather



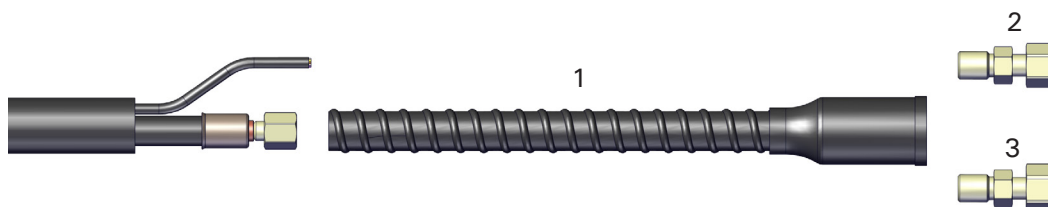
Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	261TXX002L	Flex cable hose package with leather (1m), X m cpl.	3	261T41XX1F	Power gas cable flex X m cpl.
2	92572124	Rubber outer cover 21x1.5 (PU = 60m)	4	0510614-XX6	Control cable 6 pol., one side with flat connector, l = X.6m
2.1	1172651	Leather/rubber connector			
2.2	ARLS-23100	Leather l = 1m			

Pos. 1/3/4 are available in 4m (04) / 8m (08) / 12m (12) / 16m (16)
Please insert at **XX** the length.
Example: Pos.1 Flex cable hose package with leather 8m cpl. is: 08; Part-No.: = 261T**08**002L

Machine-side e.ARC® 9G-F / 9G-F-L / 26G-F / XN-92G-F connection

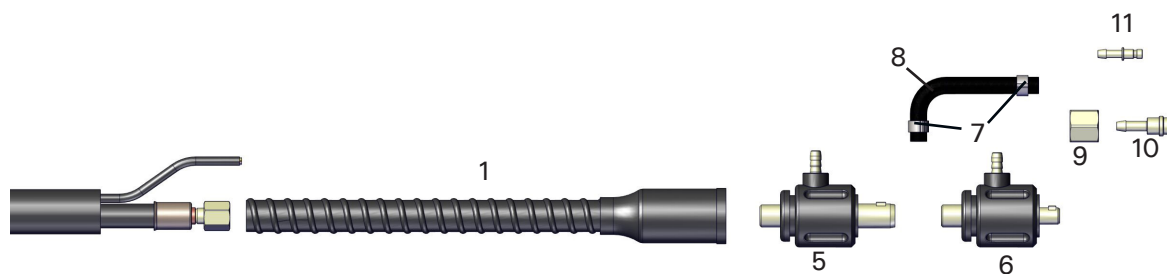
Single connection M12x1 / G1/4" / G3/8"



Spare parts

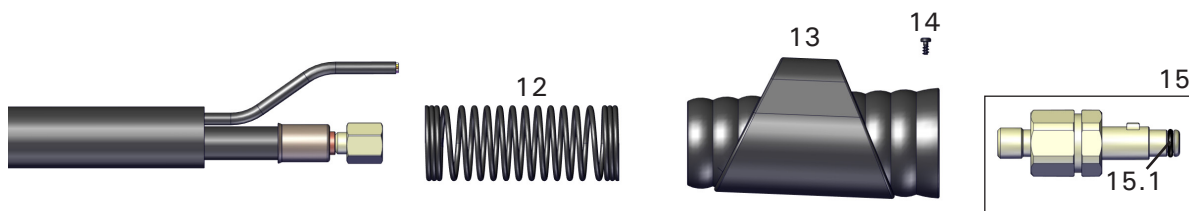
Pos.	Part No.	Description	Pos.	Part No.	Description
1	0331025	Kink protection	3	0331017	Adaptor M12x1 AG – G3/8" IG
2	0331016	Adaptor M12x1 AG – G1/4" IG			

BSB 10/25 (Ø9mm) with gas 1/4" - BSB 35/50 (Ø13mm) with gas 1/4"

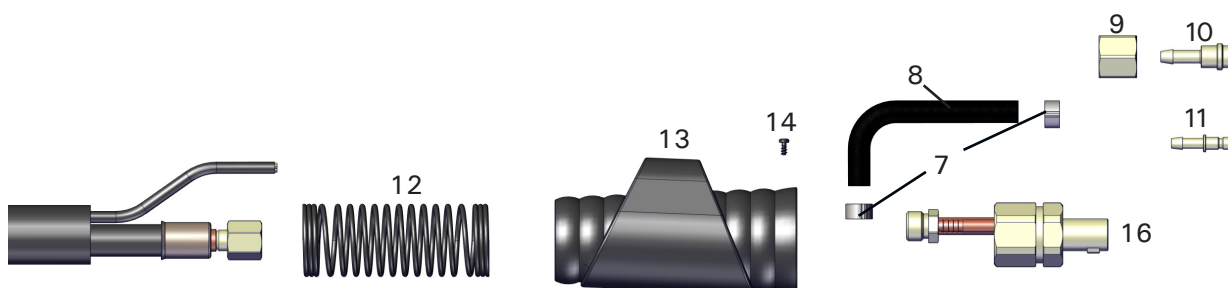


Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	0331025	Kink protection	8	45573158	Gas hose 5x2 black (PU = 100m)
5	3595110S1	BSB plug SK35/50 (Ø13mm)	9	0313001	Union nut G1/4"
6	3595010	BSB plug SK10/25 (Ø9mm)	10	0311004	Connector G1/4"
7	03211001	Single ear clamp D = 10.0 (PU = 100)	11	ARTR-0501	Plug-in nipple NW2.7 (PU = 10)

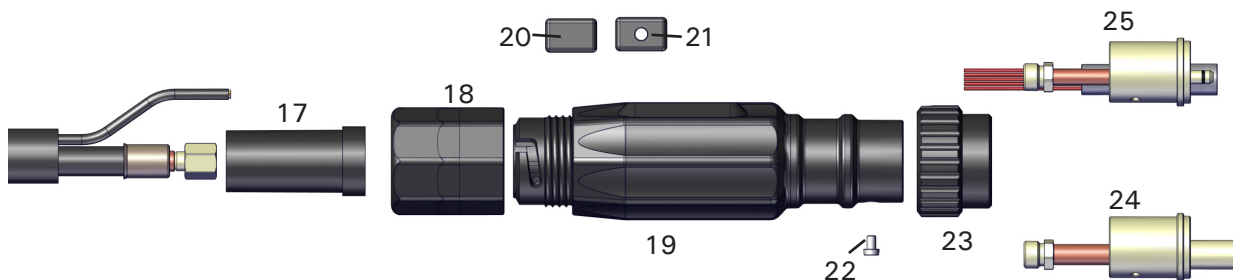
TIG compact connection Fronius® gas central

Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
12	300022731	Spring for housing	15	30002264	Housing for compact connection TIG
13	30002273	Housing for compact connection TIG	15.1	0072000	O-ring 7x2mm (PU = 20)
14	300022735	Screw Torx (PU = 20)			

TIG compact connection EWM® SK35/50 (Ø13mm) with gas: G1/4"/ plug-in nipple NW2.7

Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
7	03211001	Single ear clamp D = 10,0 (PU = 100)	12	300022731	Spring for housing
8	45573158	Gas hose 5x2 black (PU = 100m)	13	30002273	Housing for compact connection TIG
9	0313001	Union nut G1/4"	14	300022735	Screw Torx (PU = 20)
10	0311004	Connector G1/4"	16	300022725	Compact connector TIG SK35/50
11	ARTR-0501	Plug-in nipple NW2.7 (PU = 10)			

Euro-GZ0 / Euro-WTG-5



Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
17	2411201	Kink protection	22	0040601	Screw M4x6 (PU = 20)
18	2411609	Nut for gun plug housing	23	2151700	Plug nut
19	2411600S1	Gun plug housing, without Nut	24	21515031	Central connector GZ0
20	6051602	Cap for gun plug housing	25	3000211	Central connector WTG-5
21	6051603	Cap with hole for gun plug housing			

Kemppi® connection gas: 1/4"

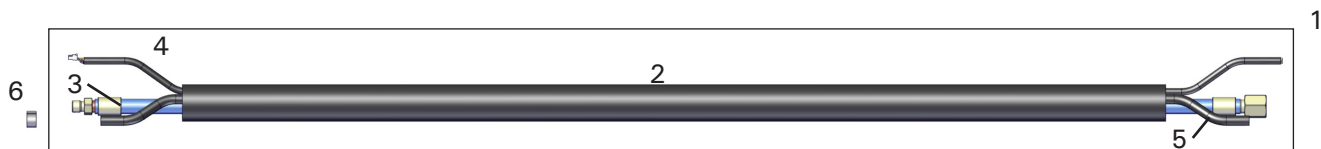


Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
2	0331016	Adaptor M12x1 AG - G1/4" IG	27	994100147	Kink protection Kemppi®
14	300022735	Screw Torx (PU = 20)	28	10103151	Insulating housing
26	0550151-02	PVC-spiral cable wrap l=0.2m			

Cable hose package e.Arc® 20W-F / 20W-F-L

Standard cable hose package



Spare parts

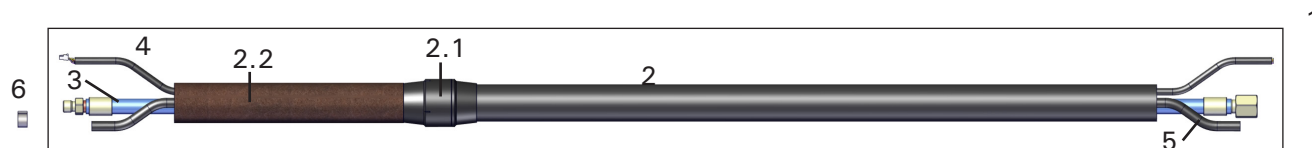
Pos.	Part No.	Description	Pos.	Part No.	Description
1	201T XX 002	Cable hose package XX m cpl.	4	0510614- XX 6	Control cable 6 pol., one side with flat connector, l= XX .6m
2	92572124	Rubber outer cover 21x1.5 (PU=60m)	5	0550121	PVC-hose (PU=200m)
3	201T41 XX 1	Power cable XX m cpl.	6	03210801	Single ear clamp D=8.0 (PU=100)

Pos. 1/3/4 are available in 4m (04) / 8m (08) / 12m (12) / 16m (16)

Please insert at **XX** the length.

Example: Pos.1 Cable hose package standard 8m cpl. is: 08; Part-No.: = 201T**08**002

Cable hose package with leather



Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	201T XX 002L	Cable hose package with leather (1m), XX m cpl.	3	201T41 XX 1	Power cable XX m cpl.
2	92572124	Rubber outer cover 21x1.5 (PU=60m)	4	0510614- XX 6	Control cable 6 pol., one side with flat connector, l= XX .6m
2.1	1172651	Leather/rubber connector	5	0550121	PVC-hose (PU=200m)
2.2	ARLS-23100	Leather l= 1m	6	03210801	Single ear clamp D=8.0 (PU=100)

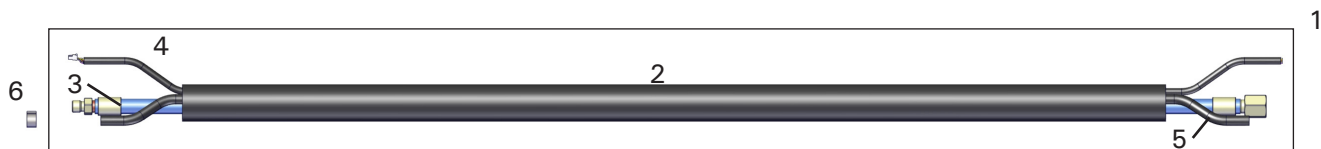
Pos. 1/3/4 are available in 4m (04) / 8m (08) / 12m (12) / 16m (16)

Please insert at **XX** the length.

Example: Pos.1 Cable hose package with leather 8m cpl. is: 08; Part-No.: = 201T**08**002L

Cable hose package e.Arc® 18W-F / XN-91W-F

Standard cable hose package



Spare parts

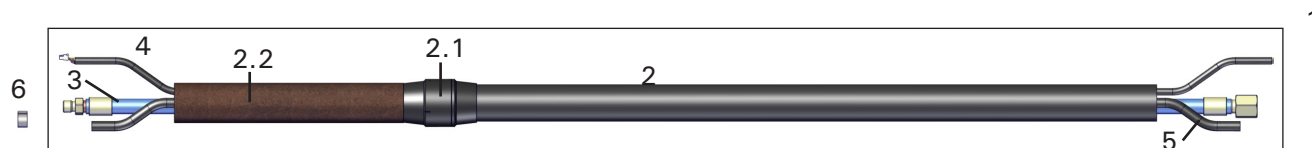
Pos.	Part No.	Description	Pos.	Part No.	Description
1	181T XX 002	Cable hose package XX m cpl.	4	0510614- XX 6	Control cable 6 pol., one side with flat connector, l= XX .6m
2	92572124	Rubber outer cover 21x1.5 (PU=60m)	5	0550121	PVC-hose (PU=200m)
3	181T41 XX 1	Power cable XX m cpl.	6	03210801	Single ear clamp D=8.0 (PU=100)

Pos. 1/3/4 are available in 4m (04) / 8m (08) / 12m (12) / 16m (16)

Please insert at **XX** the length.

Example: Pos.1 Cable hose package standard 8m cpl. is: 08; Part-No.: = 181T**08**002

Cable hose package with leather



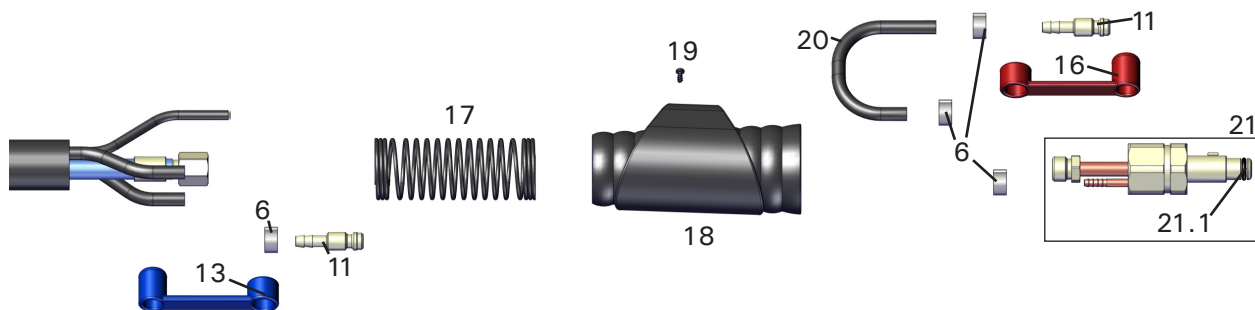
Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	181T XX 002L	Cable hose package with leather (1m), XX m cpl.	3	181T41 XX 1	Power cable XX m cpl.
2	92572124	Rubber outer cover 21x1.5 (PU=60m)	4	0510614- XX 6	Control cable 6 pol., one side with flat connector, l= XX .6m
2.1	1172651	Leather/rubber connector	5	0550121	PVC-hose (PU=200m)
2.2	ARLS-23100	Leather l= 1m	6	03210801	Single ear clamp D=8.0 (PU=100)

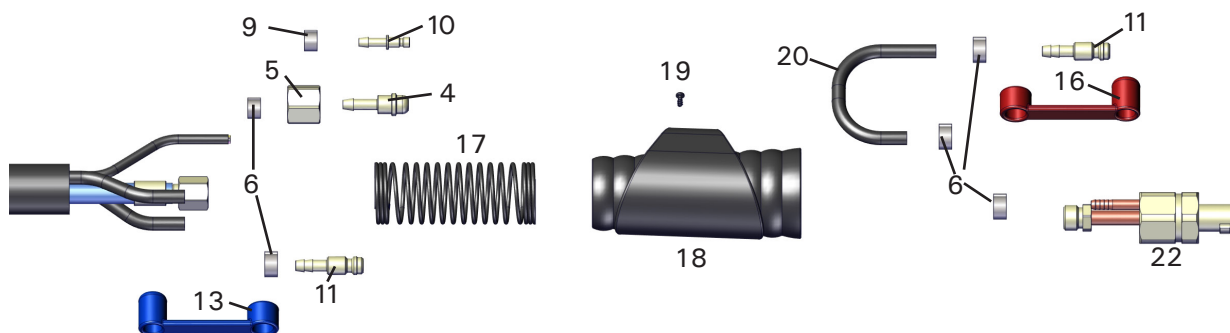
Pos. 1/3/4 are available in 4m (04) / 8m (08) / 12m (12) / 16m (16)

Please insert at **XX** the length.

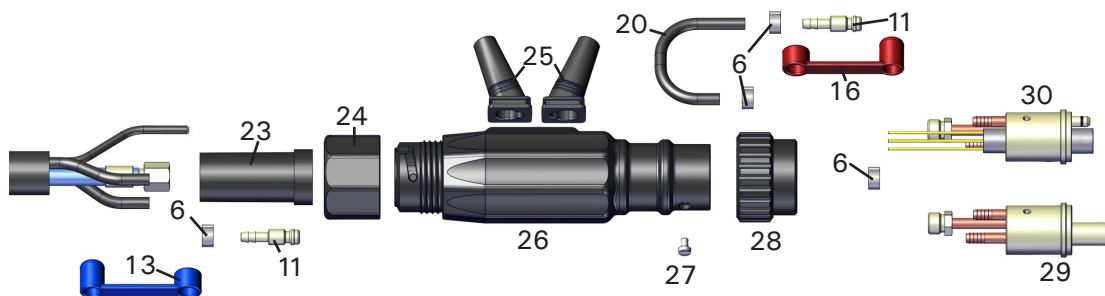
Example: Pos.1 Cable hose package with leather 8m cpl. is: 08; Part-No.: = 181T**08**002L

TIG compact connection Fronius® gas central; water: plug-in nipple NW5

Spare parts

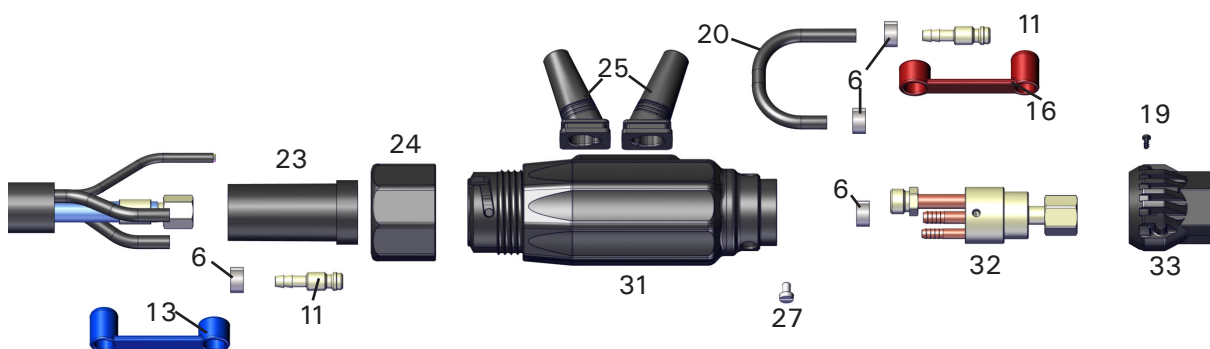
Pos.	Part No.	Description	Pos.	Part No.	Description
6	03210871	Single ear clamp D=8.7 (PU = 100)	18	30002273	Housing for compact connection TIG
11	2990800	Water plug-in nipple NW5 (PU = 10)	19	300022735	Screw Torx (PU = 20)
13	45050339	Water stop blue (PU = 10)	20	0550121	Hose 4x1.3mm black (PU = 100m)
16	45050340	Water stop red (PU = 10)	21	300022714	Compact connector TIG gas central
17	300022731	Spring for housing	21.1	0072000	O-Ring 7x2mm (PU = 20)

TIG compact connection EWM® SK35/50 with gas: G1/4"/ plug-in nipple NW2.7; water: plug-in nipple NW5

Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
4	0311004	Connector G1/4"	16	45050340	Water stop red(PU = 10)
5	0313001	Union nut G1/4"	17	300022731	Spring for housing
6	03210871	Single ear clamp D=8.7 (PU = 100)	18	30002273	Housing for compact connection TIG
9	03210801	Single ear clamp D=8.0 (PU = 100)	19	300022735	Screw Torx (PU = 20)
10	ARTR-0401	Plug-in nipple NW2.7 (PU = 10)	20	0550121	Hose 4x1.3mm black (PU = 100m)
11	2990800	Water plug-in nipple NW5 (PU = 10)	22	300022725	Compact connector TIG SK35/50
13	45050339	Water stop blue (PU = 10)			

Euro-WZ0 / Euro-WTW-5; water: plug-in nipple NW5

Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
6	03210871	Single ear clamp D=8.7 (PU = 100)	25	6051610	Rubber kink protection 3-T (PU = 2)
11	2990800	Water plug-in nipple NW5 (PU = 10)	26	2411600S1	Gun plug housing
13	45050339	Water stop blue (PU = 10)	27	0040601	Screw M4x6 (PU = 20)
16	45050340	Water stop red (PU = 10)	28	2151700	Plug nut
20	0550121	Hose 4x1.3mm black (PU = 100m)	29	3000306S	Central connector WZ0
23	2411201	Kink protection	30	3000212S	Central connector WTW-5
24	2411609	Nut for gun plug housing			

Kempfi® connection G1/4"; water: plug-in nipple NW5

Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
6	03210871	Single ear clamp D=8,7 (PU = 100)	24	2411609	Nut for gun plug housing
11	2990800	Water plug-in nipple NW5 (PU = 10)	25	6051610	Rubber kink protection 3-T (PU = 2)
13	45050339	Water stop blue (PU = 10)	27	0040601	Screw M4x6 (PU = 20)
16	45050340	Water stop red (PU = 10)	31	24116001	Gun plug housing for Kempfi®
19	300022735	Screw Torx (PU = 20)	32	9940000581	Kempfi® connector G1/4"
20	0550121	Hose 4x1.3mm black (PU = 100m)	33	10103151	Insulating housing
23	2411201	Kink protection			

Technical data e.ARC® hot/cold wire welding torch

e.ARC® 18W-F hot wire



e.ARC® 18W-F cold wire



Technical data according to EN 60 974-7

Rating*¹: 400 A DC at 60 % Duty cycle
280 A AC at 60 % Duty cycle

Tungsten electrodes-Ø: 1.6 - 4.0 mm

Hot wire current: max. 100 A

Ø-filler wire: 0.8 - 1.6mm

Length of cable hose
package: 4m

Rating*¹: 400 A DC at 60 % Duty cycle
280 A AC at 60 % Duty cycle

Tungsten electrodes-Ø: 1.6 - 4.0 mm

Hot wire current: -

Ø-filler wire: 0.8 - 1.6mm

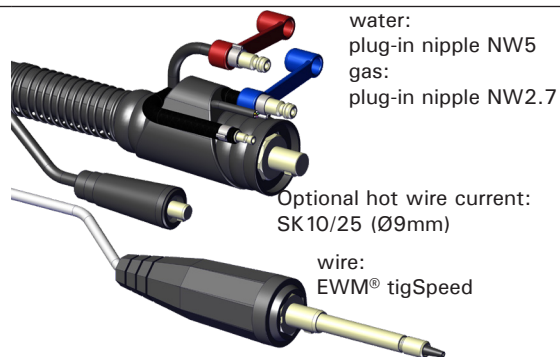
Length of cable hose
package: 4m

*¹Cooling capacity of at least 800W with a cable hose package length of 4m and a welding torch inlet pressure of the cooling liquid of 3–6bar.



Overview torch connections for e.ARC[®] hot/cold wire welding torches

TIG compact connection EWM[®] SK35/50 (Ø13mm)



water:
plug-in nipple NW5
gas:
plug-in nipple NW2.7

Optional hot wire current:
SK10/25 (Ø9mm)

wire:
EWM[®] tigSpeed

Single connection TIP TIG[®]



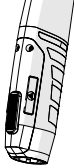
water:
G3/8" LH /G3/8 RH
gas:
G1/4" RH

Optional hot wire current:
SK10/25 (Ø9mm)

wire:
Euro-ZA

Different connections on request!

Configurator hot/cold wire e.ARC® welding torches with control cable plug

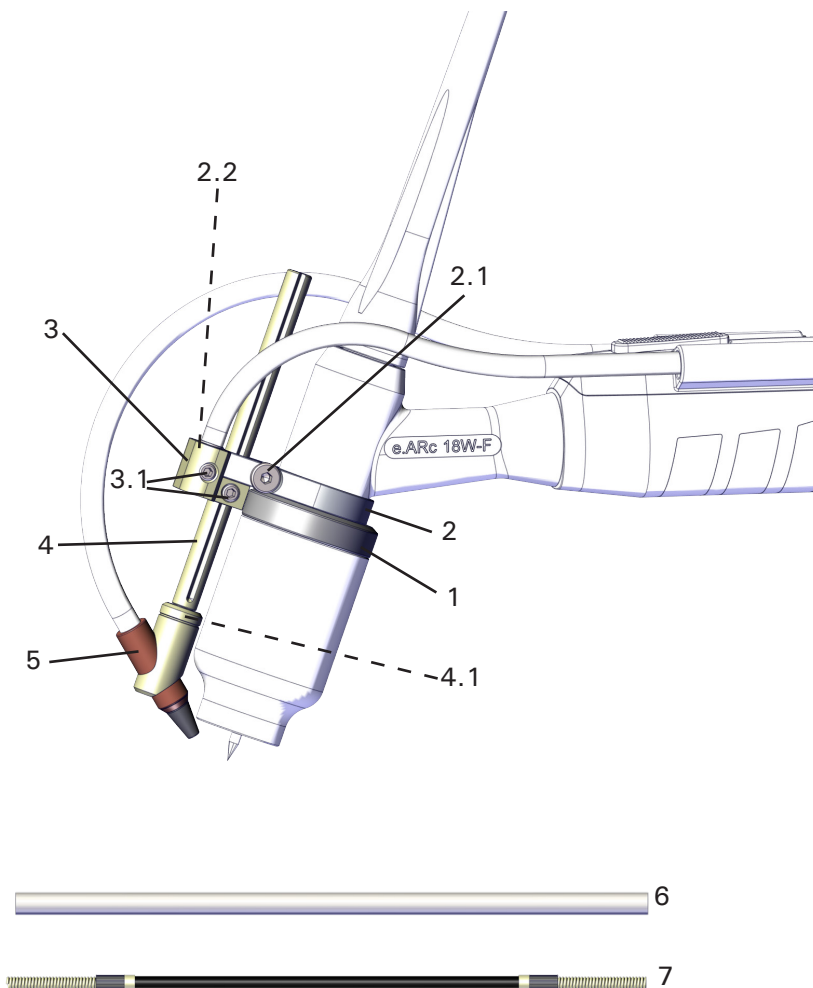
Torch type	cable hose package length	Hose package type	Handle	Function module	Torch connection for power source	hot / cold wire application
181	T	40	1	0	E3	C
181 e.ARC® 18W-F	O4 4m	L leather (1m) with rubber outer cover	1 Blue, flexible	0  Single switch	<i>EWM®</i> E3 TIG compact connection SK35/50; water: plug-in nipple NW5; gas: plug-in nipple NW2.7; 12 pol. Burndy plug	C For cold wire application
			2 Gray, flexible	1  Double switch		H For hot wire application
			3 Blue, short		<i>TIP TIG®</i> T3 Single connection G3/8" RH; gas: G1/4"; water: G3/8" LH; 7 pol. Tuchel plug	
			4 Gray, short			

Different connections on request!

Delivery condition:

All TIG torches are equipped with spare parts Ø2.4mm and contact tip Ø1,0mm.

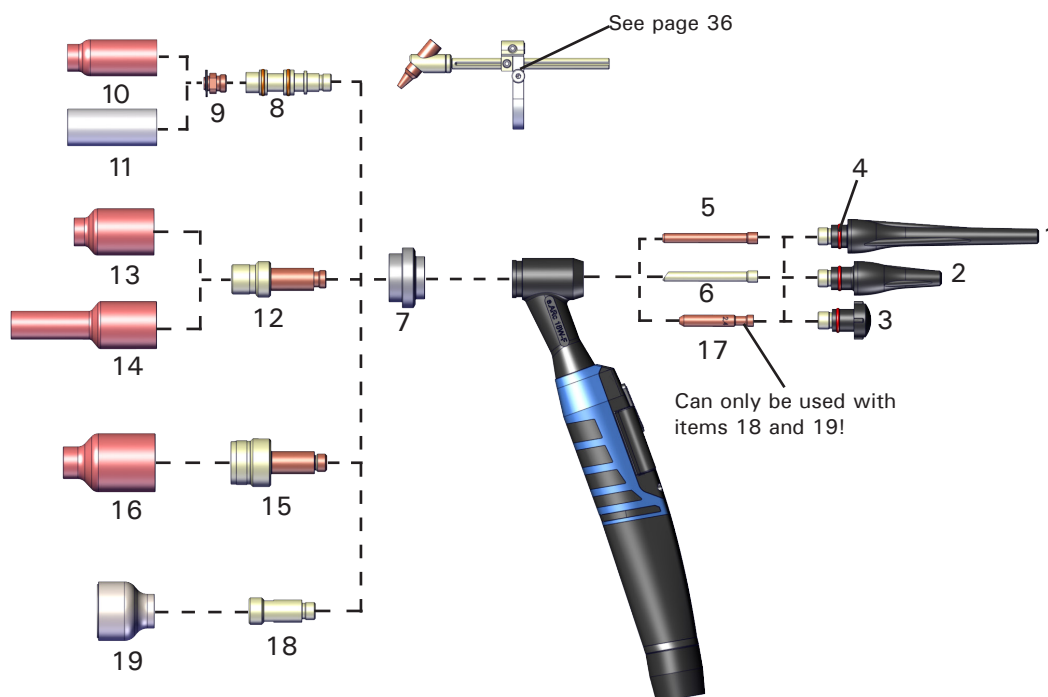
Hot/cold wire - support e.Arc® 18W-F



Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	14022122	Insulator e.Arc® 18W-F hot/cold wire	4	10503420	Hot/cold wire - axis 30° for contact tip (with Pos. 4.1)
2	105030400	Hot/cold wire support e.Arc® (with Pos. 2.1 and 2.2)		10503421	Hot/cold wire - axis 40° for contact tip (with Pos. 4.1)
2.1	0041201	Screw M4x12	4.1	0051603	Set screw M4x4
2.2	0031003	Screw M3x10	5	105030430B	Hot/cold wire contact tip Ø0.8mm
3	105030410	Hot/cold wire adapter block e.Arc® (with Pos. 3.1)		105030431B	Hot/cold wire contact tip Ø1.0mm
3.1	0051606	Set screw M4x5		105030432B	Hot/cold wire contact tip Ø1.2mm
			6	105030450	Wire conduits tube e.Arc®
			7	105030460	Combi liner e.Arc®

Spare parts hot/cold wire e.Arc® 18W-F



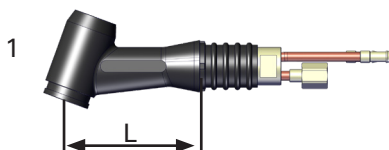
Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	1170301	Back Cap, long (PU = 5)	10	1351704	Ceramic Nozzle Size 4, Ø6,5, l = 47mm
2	1170403	Back Cap, medium (PU = 5)		1351705	Ceramic Nozzle Size 5, Ø8,0, l = 47mm
3	1170401	Back Cap, short (PU = 5)		1351706	Ceramic Nozzle Size 6, Ø9,5, l = 47mm
4	0092001	O-Ring for Back Cap (PU = 20)		1351707	Ceramic Nozzle Size 7, Ø11,0, l = 47mm
5	11704XX	Collet, l = 50mm (PU = 5)		1351708	Ceramic Nozzle Size 8, Ø12,5, l = 47mm
Collets are available in Ø1.0/1.6/2.4/3.2/4.0mm Please insert XX for electrode diameter. Example: Ø1.0mm is: 10; Part-No.: = 11704 10			11	1350720	Glas-Nozzle, Ø14,0, l = 47mm
6	13504XX	Collet Long Life, l = 50mm (PU = 5)	12	11823XX	Collet Body with Gas Lens, l = 50mm (PU = 5)
Collets are available in Ø1.0/1.6/2.4/3.2/4.0mm Please insert XX for electrode diameter. Example: Ø1.0mm is: 10; Part-No.: = 13504 10			Collet Body with Gas Lens available in Ø1.0/1.6/2.4/3.2/4.0mm. Please insert XX for electrode diameter. Example: Ø2.4mm is: 10; Part-No.: = 11826 24		
7	14022122	Insulator e.Arc® 18W-F hot/cold wire	13	1210704	Ceramic Nozzle Size 4 for Gas Lens, Ø6,5, l = 42mm (PU = 10)
8	1350620	Collet Body, l = 45mm		1210705	Ceramic Nozzle Size 5 for Gas Lens, Ø8,0, l = 42mm (PU = 10)
9	13523XX	Adapter, l = 12mm		1210706	Ceramic Nozzle Size 6 for Gas Lens, Ø9,5, l = 42mm (PU = 10)
Adapter for Collet Body are available in Ø1.0/1.6/2.4/3.2/4.0mm. Please insert XX for electrode diameter. Example: Ø1.0mm is: 10; Part-No.: = 13523 10				1210707	Ceramic Nozzle Size 7 for Gas Lens, Ø11,0, l = 42mm (PU = 10)
				1210708	Ceramic Nozzle Size 8 for Gas Lens Ø12,5, l = 42mm (PU = 10)
				1210712	Ceramic Nozzle Size 12 for Gas Lens Ø19,0, l = 42mm (PU = 10)

**Spare parts**

Pos.	Part No.	Description	Pos.	Part No.	Description
14	54N18L	Ceramic Nozzle Size 4 for Gas Lens, Ø6,5, l=76mm (PU=10)	17	14014 XX	Collet, l=40mm, e.ARC® (PU=5)
	54N17L	Ceramic Nozzle Size 5 for Gas Lens, Ø8,0, l=76mm (PU=10)	Collets are available in Ø1.6/2.4/3.2mm Please insert XX for electrode diameter. Example: Ø1.6mm is: 16; Part-No.: = 14014 16		
	54N16L	Ceramic Nozzle Size 6 for Gas Lens, Ø9,5, l=76mm (PU=10)	18	14016 XX	Collet Body, l=33mm, e.ARC® (PU=5)
	54N15L	Ceramic Nozzle Size 7 for Gas Lens, Ø11,0, l=76mm (PU=10)	Collet Body available in Ø1.6/2.4/3.2mm Please insert XX for electrode diameter. Example: Ø2.4mm is: 24; Part-No.: = 14016 24		
	54N14L	Ceramic Nozzle Size 8 for Gas Lens, Ø12,5, l=76mm (PU=10)	19	99400028	Nozzle cpl. TIG-Lens Cover Ø1,6, l=28mm
15	45V0204	Big Gas Lens Ø1,0mm, l=50mm		99400029	Nozzle cpl. TIG-Lens Cover Ø2,4, l=28mm
	45V116	Big Gas Lens Ø1,6mm, l=50mm		99400030	Nozzle cpl. TIG-Lens Cover Ø3,2, l=28mm
	45V64	Big Gas Lens Ø2,4mm, l=50mm			
	995795	Big Gas Lens Ø3,2mm, l=50mm			
	45V63	Big Gas Lens Ø4,0mm, l=50mm			
16	53N88	Ceramic Nozzle Size 10 for Big Gas Lens, Ø16,0, l=48mm (PU=10)			
	53N87	Ceramic Nozzle Size 12 for Big Gas Lens, Ø19,5, l=48mm (PU=10)			
	53N89	Ceramic Nozzle Size 16 for Big Gas Lens, Ø25,5, l=48mm (PU=10)			

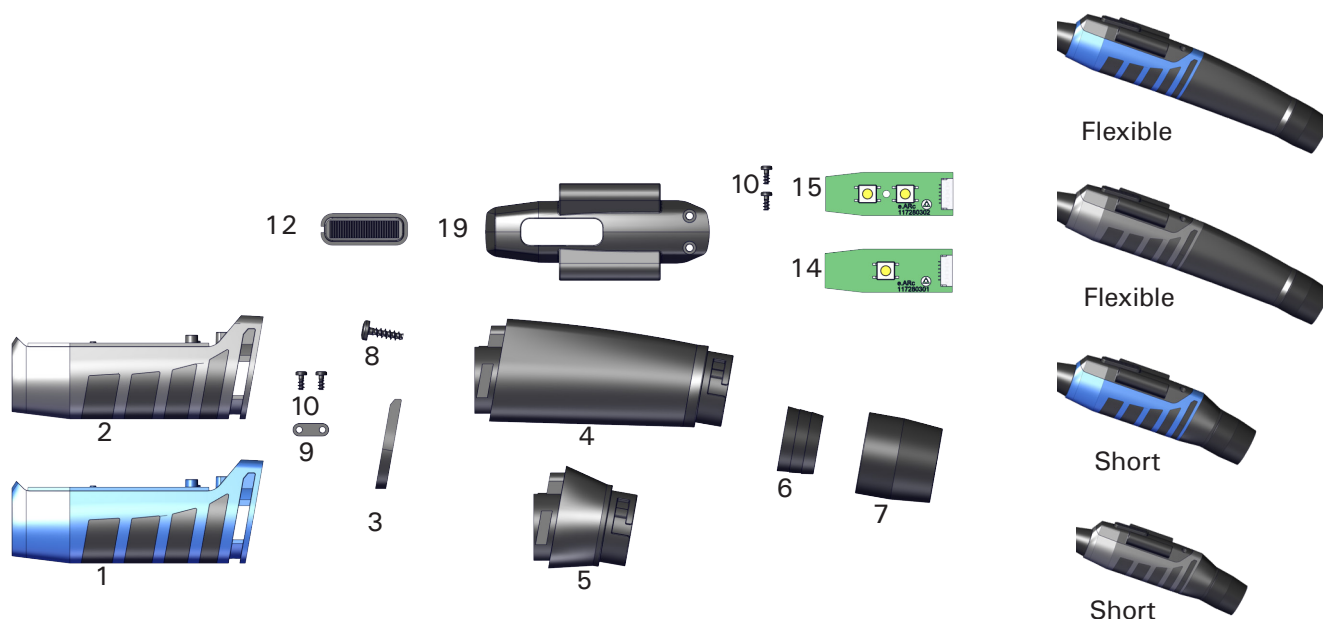
Overview torch body for hot/cold wire e.ARC® 18W-F



Spare parts

Pos.	Part No.	Description	L [mm]
1	1181T100	Torch body e.ARC® 18W-F	55

Overview handle e.ARC® for hot/cold wire

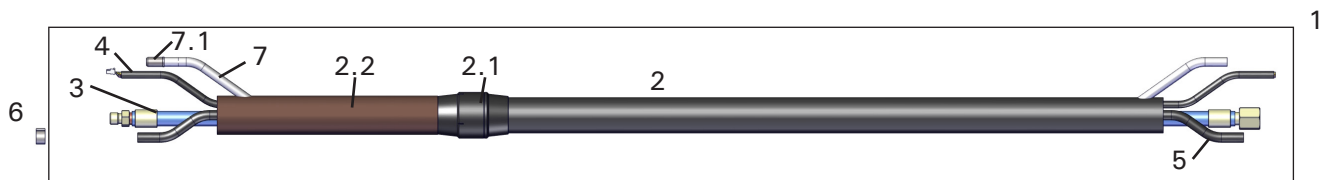


Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	117280101	Handle e.ARC® blue	8	003512K	Screw Torx (PU = 20)
2	117280102	Handle e.ARC® gray	9	117280114	Strain relief e.ARC®
3	117280111	Clamp for handle e.ARC®	10	002205K	Screw Torx (PU = 20)
4	117280110	Flexible kink protection e.ARC®	12	117280230	Trigger for single switch, black
5	117280115	Short kink protection e.ARC®	14	117280301	Single Switch PCB
6	117280112	Clamping ring for cover hose e.ARC®	15	117280302	Double Switch PCB
7	117280113	Nut for kink protection e.ARC®	19	117280203	Cover hot/cold wire for single/double switch, black

Cable hose package hot/cold wire e.ARC® 18W-F

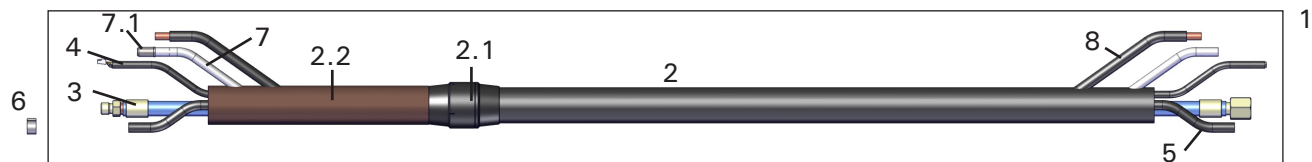
Cable hose package with leather for cold wire



Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	181T04002LC	Cable hose package with leather for cold wire 4m cpl.	4	0510614-046	Control cable 6 pol., one side with flat connector, l = 4,6m
2	92572124	Rubber outer cover 21x1,5 (PU = 60m)	5	0550121	PVC-hose (PU = 200m)
2.1	1172651	Leather/rubber connector	6	03210801	Single ear clamp D = 8, . (PU = 100)
2.2	ARLS-23100	Leather l = 1m	7	0550608-4	Outer liner cpl. with connector
3	181T41041	Power cable 4m cpl.	7.1	105030459	Connector

Cable hose package with leather for hot wire

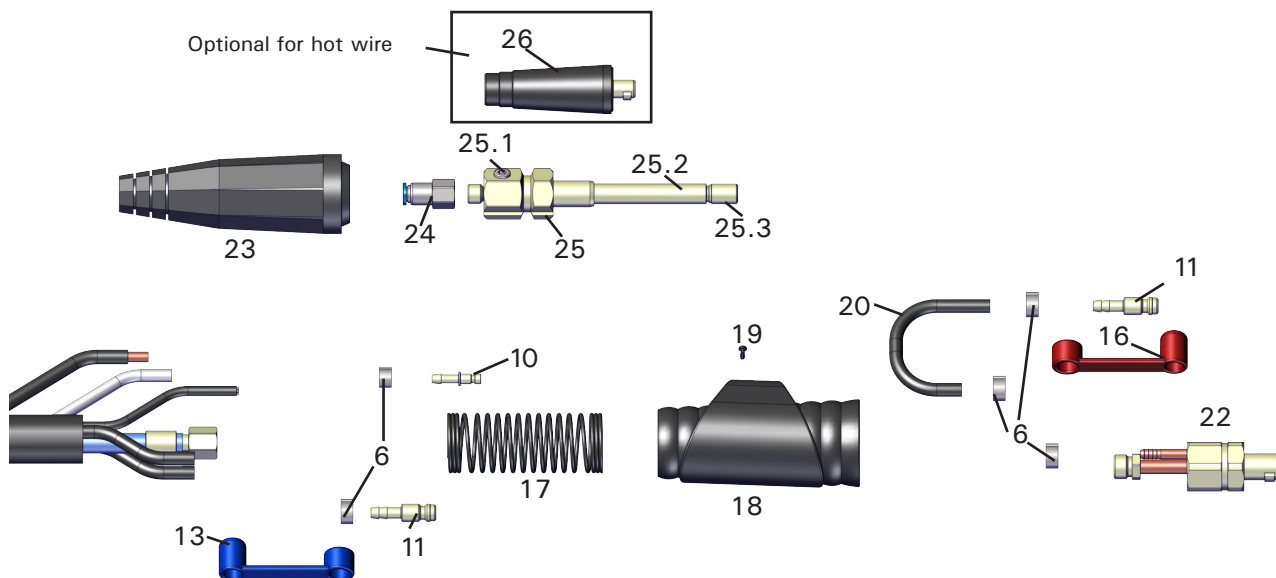


Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	181T04002LH	Cable hose package with leather for hot-wire 4m cpl.	5	0550121	PVC-hose (PU = 200m)
2	92572124	Rubber outer cover 21x1,5 (PU = 60m)	6	03210801	Single ear clamp D = 8.0 (PU = 100)
2.1	1172651	Leather/rubber connector	7	0550608-4	Outer liner cpl. with connector
2.2	ARLS-23100	Leather l = 1m	7.1	105030459	Connector
3	181T41041	Power cable 4m cpl.	8	105030470	Hot wire power cable
4	0510614-046	Control cable 6 pol., one side with flat connector, l = 4,6m			

Machine-side e.Arc® 18W-F connection with hot/cold wire

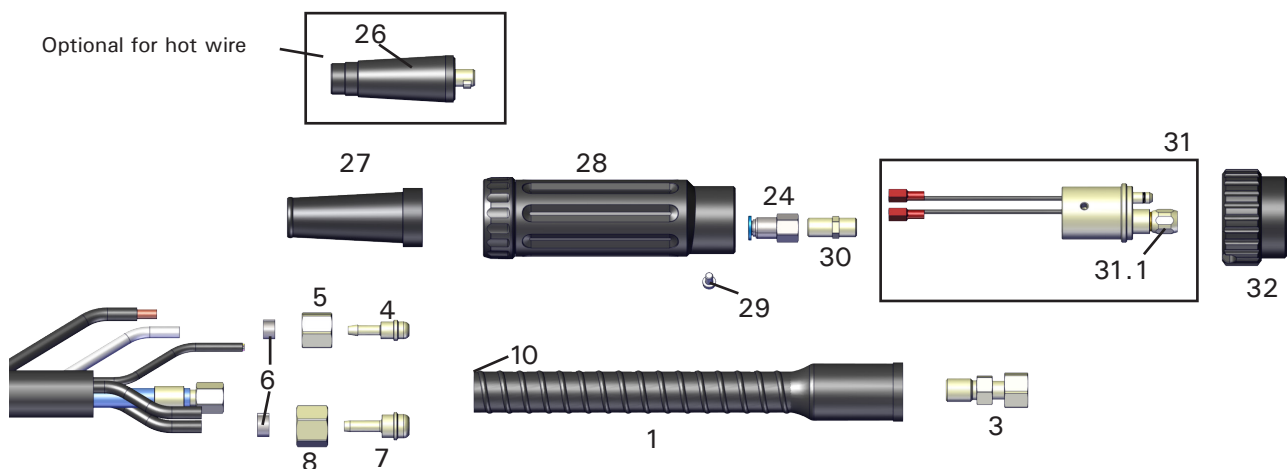
**TIG compact connector EWM® SK35/50 (Ø13mm) with gas: plug-in nipple NW2.7;
water: plug-in nipple NW5; wire connection: EWM® tigSpeed;
optional: hot wire connection: SK10/25 (Ø9mm)**



Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
6	03210871	Single ear clamp D = 8.7 (PU = 100)	19	300022735	Screw Torx (PU = 20)
9	03210801	Single ear clamp D = 8.0 (PU = 100)	20	0550121	Hose 4x1,3mm black (PU = 100m)
10	ARTR-0401	Plug-in nipple NW2.7 (PU = 10)	22	300022725	Compact connector TIG SK35/50
11	2990800	Plug-in nipple NW5 (PU = 10)	23	9940000135	Housing for liner connection
13	45050339	Water stop blue (PU = 10)	24	9940000243	Straight plug-in fitting R 1/8"-6mm
16	45050340	Water stop red (PU = 10)	25	994000002	Plug for wire connection
17	300022731	Spring for housing	25.1	994000039	Grub screw M8x8
18	30002273	Housing for compact connection TIG	25.2	994100165	Liner connector for EWM® tigSpeed
			25.3	994000004	Liner positioner nut
			26	3001201	Plug SK10/25 (Ø9mm)

**Single connection TIP TIG® with gas: G1/4"; water in: G3/8" LH;
water return: G3/8" RH; wire connection: Euro-connection;
optional: hot wire connection: SK10/25 (Ø9mm)**

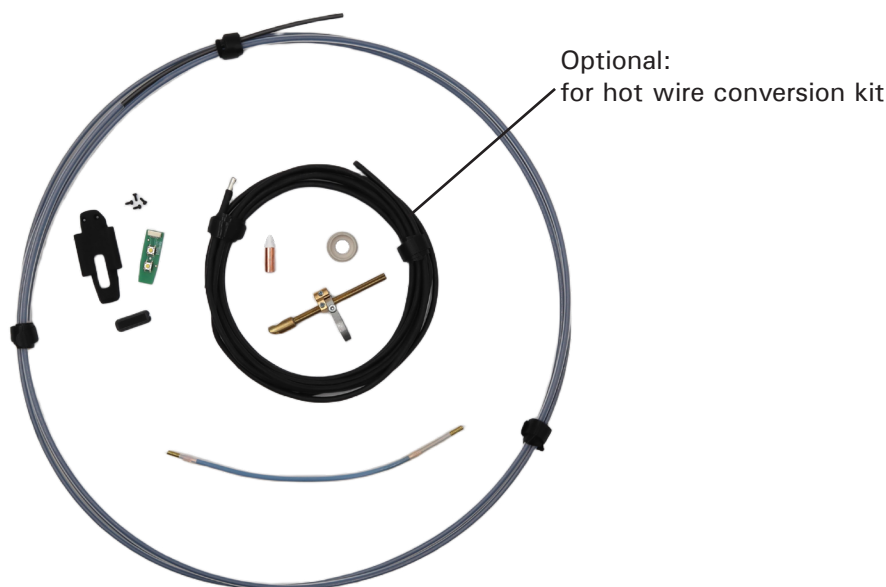


Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	0331025	Kink protection	27	2151200	PVC-kink protection
3	0331017	Adaptor M12x1 AG - G3/8" IG	28	2251601	Gun plug housing
4	0311004	Connector G1/4"	29	0040601	Screw M4x6 (VE = 10)
5	0313001	Union nut G1/4"	30	000F219	Threaded nipple
6	03210871	Single ear clamp D=8,7 (PU = 100)	31	2151505	Euro.connector
7	0312004	Connector G3/8"	31.1	2151501	Liner positioner nut
8	0313005	Union nut G3/8"	32	2151700	Plug nut
24	9940000243	Sraight plug-in fitting R 1/8"-6mm			
26	3001201	Plug SK10/25 (Ø9mm)			

Conversion kit for e.ARC® 18W-F hot/cold wire

Conversion kit for hot/cold wire:
Outer liner without machine-side connection
optional: hot wire power cable without plug



Spare parts

Pos.	Part No.	Description	Pos.	Part No.	Description
1	10503040-SET001	Conversion kit e.ARC® 18W-F for hot wire and double switch consists of: 1x Cover hot/cold wire for single/double switch, black 4x Screw Torx 1x Trigger for single/double switch, black 1x Double switch PCB 1x Insulator e.ARC® 18W-F hot/cold wire 1x Hot/cold wire contact tip Ø1.0mm 1x Hot/cold wire - axis 30° for contact tip 1x Hot/cold wire support e.ARC® 1x Hot/cold wire adapter block e.ARC® 1x Wire conduits tube e.ARC® 1x Combi liner e.ARC® 1x Outer liner cpl. with connector 1x Hot wire power cable 1x PA-Liner		10503040-SET002	Conversion kit e.ARC® 18W-F for cold wire and double switch consists of: 1x Cover hot/cold wire for single/double switch, black 4x Screw Torx 1x Trigger for single/double switch, black 1x Double switch PCB 1x Insulator e.ARC® 18W-F hot/cold wire 1x Hot/cold wire contact tip Ø1.0mm 1x Hot/cold wire - axis 30° for contact tip 1x Hot/cold wire support e.ARC® 1x Hot/cold wire adapter block e.ARC® 1x Wire conduits tube e.ARC® 1x Combi liner e.ARC® 1x Outer liner cpl. with connector 1x PA-Liner



Spare part kits

Starter kit for e.ARC® hot/cold wire welding torches



Starter kit e.ARC® 18W-F hot/cold wire (994100168), consists of:

Part No.	Description	Part No.	Description
14022122	1x Insulator e.ARC® 18W-F hot/cold wire	1182332	1x Collet Body with Gas Lens Ø3,2mm, l=50mm (PU=5)
10503420	1x Hot/cold wire - axis 30° for contact tip	1350432	1x Collet Long Life Ø3.2mm, l=50mm
10503421	1x Hot/cold wire - axis 40° for contact tip	54N15L	1x Ceramic Nozzle Size 7 for Gas Lens, Ø11,0, l=76mm
105030430B	1x Hot/cold wire contact tip Ø0.8mm	54N14L	1x Ceramic Nozzle Size 8 for Gas Lens, Ø12,5, l=76mm
105030431B	1x Hot/cold wire contact tip Ø1.0mm	0458002	1x Tungsten electrode WC20 Ø3.2mm, l=175mm
105030432B	1x Hot/cold wire contact tip Ø1.2mm		
105030450	1x Wire conduits tube e.ARC®		
105030460	1x Combi liner e.ARC®		



Wire conduits and liners for e.ARC® hot/cold wire welding torches

PA liners – for Euro connection

(Aluminum (AlMg, AlSi etc.), Stainless steel (chrome-nickel, VA, V2A etc.), Special alloys (CuSi etc.), Carbon steel (G3Si1, SG2 etc.))

Wire-Ø [mm]	Dimension [mm]	Color	Collet (PU = 10)	O-ring (PU = 10)	Fig.	Liner cpl.	bundles (200m)
0,6 – 0,9	1,4 x 4,0	anthracite	2155740	0031500		35314X0*	3531400
0,8 – 1,2	2,0 x 4,0	anthracite	2155740	0031500		35320X0*	3522000-200
1,2 – 1,6	2,3 x 4,7	anthracite	2415747	0031500		35323X0*	3532300-200

PTFE liners – for Euro connection

(Aluminum (AlMg, AlSi etc.), Stainless steel (chrome-nickel, VA, V2A etc.), Special alloys (CuSi etc.), Carbon steel (G3Si1, SG2 etc.))

Wire-Ø [mm]	Dimension [mm]	Color	Collet (PU = 10)	O-ring (PU = 10)	Fig.	Liner cpl.	bundles (100m)
0,8 - 1,0	1,5 x 4,0	blue	2155740	0031500		34115X0*	3411500
0,9 - 1,2	2,0 x 4,0	red	2155740	0031500		34120X0*	3412000
1,2 - 1,6	2,7 x 4,7	yellow	2415747	0031500		34727X0*	3472700

Carbon PTFE liners – for Euro connection

(Carbon steel (G3Si1, SG2 etc.), Special alloys (CuSi etc.), conditional aluminum (AlMg, AlSi etc.))

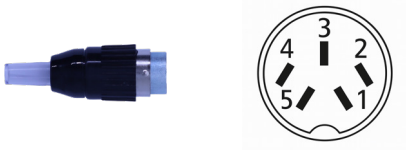
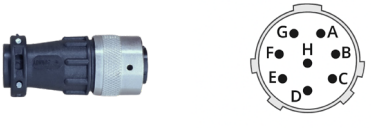
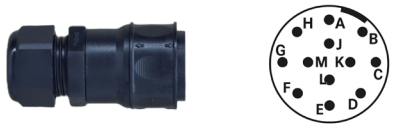
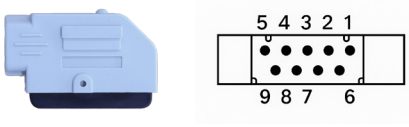
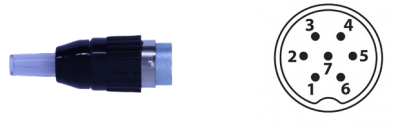
Wire-Ø [mm]	Dimension [mm]	Color	Collet (PU = 10)	O-ring (PU = 10)	Fig.	Liner cpl.	bundles (100m)
0,8 - 1,0	1,5 x 4,0	black	2155740	0031500		35115X0*	3511500
0,9 - 1,2	2,0 x 4,0	black	2155740	0031500		35120X0*	3512000
1,2 - 1,6	2,7 x 4,7	black	2415747	0031500		35727X0*	3572700

* Wire conduits and liners available in standard length in 3 or 4 / 5 /6m. Please insert the length at X.

Example: 3m ist: 3; Art.-Nr.: = 3411530

Contact us for different length.

Control cable plugs

EWM®	Kempfi®	Rehm®
Tuchel plug 5-pol.  Part No.: T3012002	Amphenol plug 7-pol.  Part No.: P-0001-Set	Amphenol C16-1 plug 7-pol.  Part No.: T3104001
Burndy plug 8-pol.  Part No.: P-0003-Set		Amphenol plug 12-pol.  Part No.: P-0002-Set
EWM®	Fronius®	TIP TIG®
Burndy plug 12-pol.  Part No.: P-0004-Set	Tuchel plug 9-pol.  Part No.: ART902	Tuchel plug 7-pol.  Part No.: 0002607

Tungsten electrodes



Markings Part.No. Ø [mm] Length [mm] Recommendation

Green „WP“	08602110	1,0	175		
	08602170	1,6		Current type:	Alternating current
	08602240	2,4		Ignitability:	-
	08602320	3,2		Lifetime:	+
	08602400	4,0		Arc stability:	+
	08602480	4,8		Type of material:	Aluminium, aluminium alloys
Gray „WC 20“	0458000S1	1,0	175		
	0458000	1,6		Current type:	Direct current minus pole, Alternating current
	0458001	2,4		Ignitability:	+ +
	0458002	3,2		Lifetime:	+
	0458003	4,0		Arc stability:	+
	0458004	4,8		Type of material:	For all applications
Black „WL 10“	0464001	1,0	175		
	0464002	1,6		Current type:	Direct current minus pole
	0464004	2,4		Ignitability:	+
	0464006	3,2		Lifetime:	+
	0464007	4,0		Arc stability:	+
	0464008	4,8		Type of material:	High-alloyed steels
Gold „WL 15“	0446902	1,0	175		
	0446903	1,6		Current type:	Direct current minus pole
	0446904	2,4		Ignitability:	+ +
	0446905	3,2		Lifetime:	+ +
	0446906	4,0		Arc stability:	+
	0446907	4,8		Type of material:	High-alloyed steels
Blue „WL 20“	0461001	1,0	175		
	0461002	1,6		Current type:	Direct current minus pole
	0461003	2,4		Ignitability:	+ + +
	0461004	3,2		Lifetime:	+ + +
	0461005	4,0		Arc stability:	+ +
	0461007	4,8		Type of material:	High-alloyed steels
White „WZ8“	0445928	1,0	175		
	0445929	1,6		Current type:	Alternating current
	0445930	2,4		Ignitability:	+
	0445931	3,2		Lifetime:	+ +
	0445932	4,0		Arc stability:	+ +
	0445933	4,8		Type of material:	Aluminium, aluminium alloys
Turquoise „WS2“	0459000S	1,0	175		
	0459000	1,6		Current type:	Direct current minus pole, Alternating current
	0459002	2,4		Ignitability:	+ + +
	0459003	3,2		Lifetime:	+ + +
	0459004	4,0		Arc stability:	+ +
	0459005	4,8		Type of material:	For all applications



AUTOGEN-RITTER GmbH

Arc-welding torches MIG-MAG WIG/TIG Plasma Spare parts

Quality Welding Solutions since 1920.

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