ML 150 - MV 550
FKS - MIG MANAGER®
MIG/MAG ERGO WELDING HOSES

Operational comfort and ergonomically correct working environment

Torch handle designed to fit perfectly into your hand

Tested by experienced welders

Central connection is a standard feature on all types

DIALOG torch for remote control of all Migatronic machines

MIG Manager® with advanced remote control of FLEX and Sigma machines

New digital operational comfort and ergonomics in the torch handle

Central connection with new ball-and-socket joint for flexible connection of the machine

With Migatronic's new brochure on MIG/MAG welding hoses at hand you will easily find the welding hose that suits your welding requirements. The following pages will give you an overall impression of the standard types in Migatronic's wide range of ergonomic welding hoses. In addition to the standard types, we develop and design custom-built special solutions.

Digital revolution

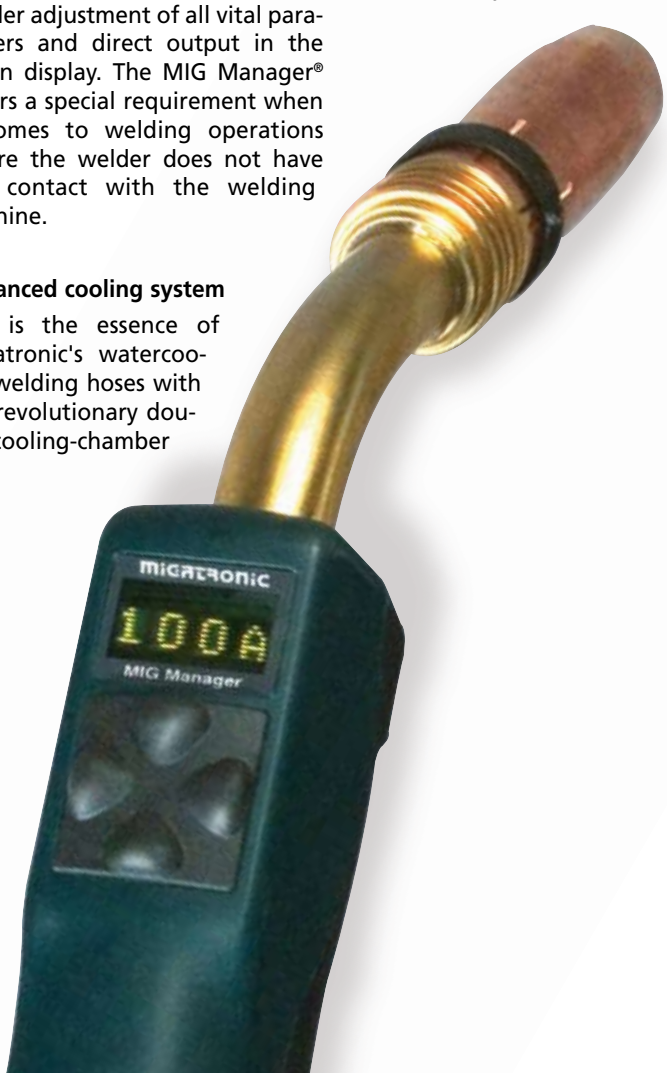
MIG Manager® is the name of Migatronic's digital MIG welding hose which communicates directly with the most advanced FLEX and Sigma welding machines. The MIG Manager® torch handle allows the welder adjustment of all vital parameters and direct output in the green display. The MIG Manager® covers a special requirement when it comes to welding operations where the welder does not have eye contact with the welding machine.

Advanced cooling system

FKS is the essence of Migatronic's watercooled welding hoses with the revolutionary double cooling-chamber ensuring efficient cooling of the torch at the gas nozzle. Large quantities of radiant heat are absorbed from the weld pool and transported to the cooling unit. Migatronic FKS welding hoses are also available with Dialog adjustment of the welding current or with the digital MIG Manager® concept. The FKS has been developed specifically for heavy duty pulse welding and spray transfer welding.

Technology at both ends

Migatronic always endeavours to focus on simplicity and user-friendliness; elements that result in satisfaction and, indirectly, better economy. Ball-and-socket joint relief at both ends of the hose is an example of innovative ergonomics as well as use of many combined materials in contact tips, gas diffusers, wire liners etc., all of which contributes to reliability and longer life of the hoses. Migatronic's complete range of watercooled or aircooled welding hoses offers a variety of thoroughly tested high-quality products.



The advanced ergonomic MIG Manager® allows the welder access to vital functions and outputs at the torch handle.

MIGATRONIC ABBREVIATIONS

ML
Migatronic aircooled torch

MV
Migatronic watercooled torch

300
Model size

F
Remote control/ Dialog

KD
Separate tip adaptor

T
Spring pins in central connection

HD-S
Heavy Duty with 10 x 40 mm nozzle

FKS
Double cooling chamber with extra cooling of gas nozzle

Model ML 150

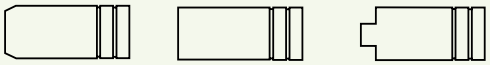
ML 150		ML 150 F	
3 m hose	80195150	3 m hose	80194150
4 m hose	80195151	4 m hose	80194151

Model ML 250

ML 250		ML 250 F	
3 m hose	80195250	3 m hose	80194250
4 m hose	80195251	4 m hose	80194251

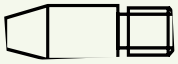
ML 150/250 is always supplied with separate tip adaptor (KD) and central connection

Gas nozzle:



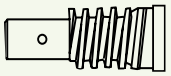
80140023* 53.5 mm | 80140500 55 mm | 80140022 60 mm

Contact tip:



Ø 0.6 M6	80130201	Ø 1.0 M6	80130203
Ø 0.8 M6	80130202*	Ø 1.2 M6	80130204

Tip adaptor:

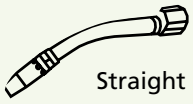


Standard 34 mm 80110020*

Retaining clamp:

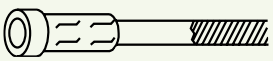
80100021

Swan neck:



Curved 80151202* Straight 80151201

Steel liner:

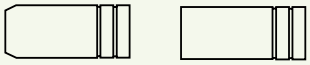


White	for 0.6-0.8 wire	80160520
Blue	for 0.8-1.0 wire	80160521*

4.4 m (also used for 3 m hoses)

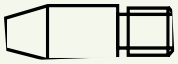
* = Standard on delivery

Gas nozzle:



80140601* 57 mm | 80140600 57 mm

Contact tip:



Ø 0.6 M6	80130201	Ø 1.2 M6	80130204
Ø 0.8 M6	80130202*	Ø 1.6 M6	80131204
Ø 1.0 M6	80130203		

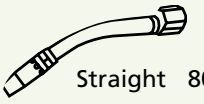
Tip adaptor:

Long 37 mm 80110601 Short 35 mm 80110602*

Retaining clamp:

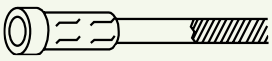
80100600

Swan neck:



Curved 80151302* Straight 80151301

Steel liner:



White	for 0.6-0.8 wire	80160520
Blue	for 0.8-1.0 wire	80160521*
Red	for 1.2-1.6 wire	80160522

4.4 m (also used for 3 m hoses)

* = Standard on delivery

Model ML 300

ML 300		ML 300 F	
3 m hose	80195300	3 m hose	80194300
4 m hose	80195301	4 m hose	80194301

Model ML 360

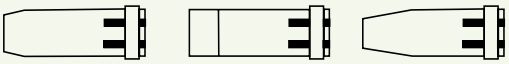
ML 360		ML 360 F	
3 m hose	80195360	3 m hose	80194360
4 m hose	80195361	4 m hose	80194361

Model ML 360
MIG Manager®

3 m	hose	80194362
4 m	hose	80194363

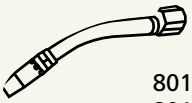
ML 300/360 is always supplied with separate tip adaptor (KD) and central connection

Gas nozzle:



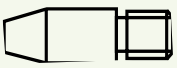
Standard:	80240303* 76 mm	80240300 76 mm	80240304 76 mm
Long:	80140700 84 mm	80140701 84 mm	

Swan neck:



ML 300	Curved	80151502*
ML 300	Straight	80151501
ML 360	Curced	80151602*
ML 360	Straight	80151601
ML 360	Straight MIG Manager	80251607*

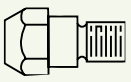
Contact tip:



Ø 0.6	M6	80130201	Ø 1.0	M6	80130203*
Ø 0.8	M6	80130202	Ø 1.2	M6	80130204

Tip adaptor:

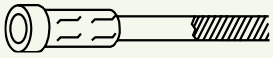
M8-6	Long	25 mm	80112636*
M8-6	Long	32 mm	80112637
M8-6	Short	22 mm	80110026
M8-6	Long	25 mm	80112640
M8-8	Short	23 mm	80110300
M8-8	Long	28 mm	80112638
M8-8	Long	32 mm	80112639



Gas diffuser:

White	Short	std.	80120301
White	Long	32,5 mm	80120306

Steel liner:



White	for 0.6-0.8 wire	80160520
Blue	for 0.8-1.0 wire	80160521*
Red	for 1.2-1.6 wire	80160522

4.4 m (also used for 3 m hoses)

* = Standard on delivery

Model ML 240
Air-cooled

ML 240		ML 240 F	
3 m hose	80195240	3 m hose	80194240
4 m hose	80195241	4 m hose	80194241

Model MV 240
Water-cooled

ML 240		ML 250 F	
3 m hose	80295240	3 m hose	80294240
4 m hose	80295241	4 m hose	80294241

Model ML 240
MIG Manager® Air-cooled

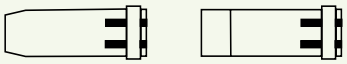
3 m hose	80194242
4 m hose	80194243

Model MV 240
MIG Manager® Water-cooled

3 m hose	80294245
4 m hose	80294246

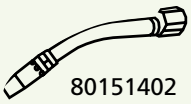
ML/MV 240 is always supplied with separate tip adaptor (KD) and central connection

Gas nozzle:



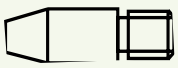
80140610*	80140611
64 mm	64 mm

Swan neck:



ML 240		80151402
ML 240	MIG Manager	80151403
MV 240		80251101
MV 240	MIG Manager	80251107

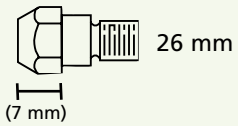
Contact tip:



Ø 0.6	M6	80130201	Ø 1.0	M6	80130203* MV
Ø 0.8	M6	80130202* ML	Ø 1.2	M6	80130204

Tip adaptor:

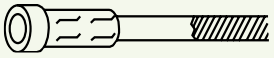
Ms	83077149*	(5 mm)
CuCrZr	80110604	(5 mm)
Ms	80110603	(7 mm)



Gas diffuser:

Black	83077480*
White	83077481
Ceramic	80220311

Steel liner:



White	for 0.6-0.8 wire	80160520
Blue	for 0.8-1.0 wire	80160521*
Red	for 1.2-1.6 wire	80160522

4.4 m (also used for 3 m hoses)

* = Standard on delivery

Double watercooling with extra cooling of gas nozzle

Model MV 400 FKS

MV 400 FKS		MV 400 FKS F	
3 m hose	80295602	3 m hose	80294602
4 m hose	80295603	4 m hose	80294603

Model MV 500 FKS

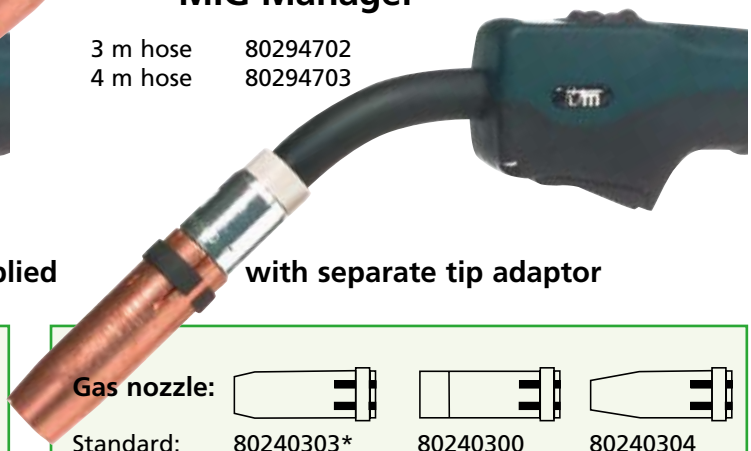
MV 500 FKS		MV 500 FKS F	
3 m hose	80295700	3 m hose	80294700
4 m hose	80295701	4 m hose	80294701

Model MV 400 FKS
MIG Manager®

3 m hose	80294660
4 m hose	80294661

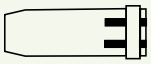
Model MV 500 FKS
MIG Manager®

3 m hose	80294702
4 m hose	80294703

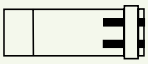


MV 400/500 FKS is always supplied with separate tip adaptor

Gas nozzle:



80240307* 62 mm

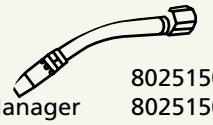


80240308 62 mm Use 30-38 mm contact tip

80240317 67 mm

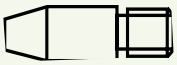
80240318 67 mm Use 41 mm contact tip

Swan neck:



MV 400 FKS	80251500
MV 400 FKS MIG Manager	80251501

Contact tip:

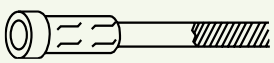


Ø 0.8	M8	80231101	Ø 1.4	M8	80231106
Ø 1.0	M8	80231102	Ø 1.6	M8	80231104
Ø 1.2	M8	80231103*			

Tip adaptor:

80110408* 24 mm

Steel liner:



White	for 0.6-0.8 wire	80160520
Blue	for 0.8-1.0 wire	80160521
Red	for 1.2-1.6 wire	80160522*

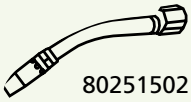
4.4 m (also used for 3 m hoses)

* = Standard on delivery

Gas nozzle:

Standard:	80240303* 76 mm	80240300 76 mm	80240304 76 mm
Long:	80140700 84 mm	80140701 84 mm	

Swan neck:



MV 500 FKS	80251502
MV 500 FKS MIG Manager	80251503
MV 500 FKS Flex	80251510

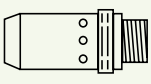
Contact tip:

Ø 0.8	M8	80231101	Ø 1.2	M8	80231103*
Ø 1.0	M8	80231102	Ø 1.6	M8	80231104

Gas diffuser:

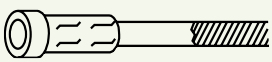
White 80220312* Ceramic 80220313

Tip adaptor:



80110410* CuCrZr 38 mm

Steel liner:



White	for 0.6-0.8 wire	80160520
Blue	for 0.8-1.0 wire	80160521
Red	for 1.2-1.6 wire	80160522*

4.4 m (also used for 3 m hoses)

* = Standard on delivery

Model MV 450

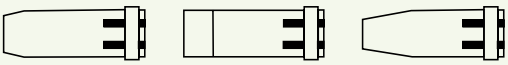
MV 450		**MV 450 F**	
3 m hose	80295452	3 m hose	80294452
4 m hose	80295453	4 m hose	80294453
MV 450 (KD)		**MV 450 F**	(KD)
3 m hose	80295450	3 m hose	80294450
4 m hose	80295451	4 m hose	80294451

Model MV 550

MV 550		**MV 550 F**	
3 m hose	80295552	3 m hose	80294552
4 m hose	80295553	4 m hose	80294553
MV 550 (KD)		**MV 550 F**	(KD)
3 m hose	80295550	3 m hose	80294550
4 m hose	80295551	4 m hose	80294551

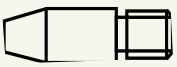
MV 450/550 available with integrated or separate tip adaptor (KD)

Gas nozzle:



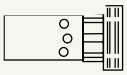
Standard:	80240303* 76 mm	80240300 76 mm	80240304 76 mm
Long:	80140700 84 mm	80140701 84 mm	

Contact tip:



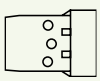
Ø 0.8	M8	80231101	Ø 1.2	M8	80231103*
Ø 1.0	M8	80231102	Ø 1.6	M8	80231104

Tip adaptor:



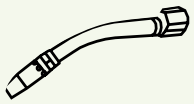
Short	25 mm	M8	Ms	80110401
Long	29 mm	M8	Ms	80110402*
Short	25 mm	M6	Ms	80110403
Short	25 mm	M8	CuCrZr	80110406
Long	29 mm	M8	CuCrZr	80110409

Gas diffuser:



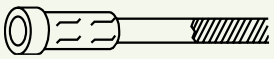
White	80220309*
Black	80220306
Ceramic	80220310

Swan neck



MV 450	80251204
MV 450 KD	80251202
MV 550	80251304
MV 550 KD	80251302

Steel liner:



White	for 0.6-0.8 wire	80160520
Blue	for 0.8-1.0 wire	80160521
Red	for 1.2-1.6 wire	80160522*
Yellow	for > 2.0 wire	80160523

4.4 m (also used for 3 m hoses)

Insulating disc:

80220303

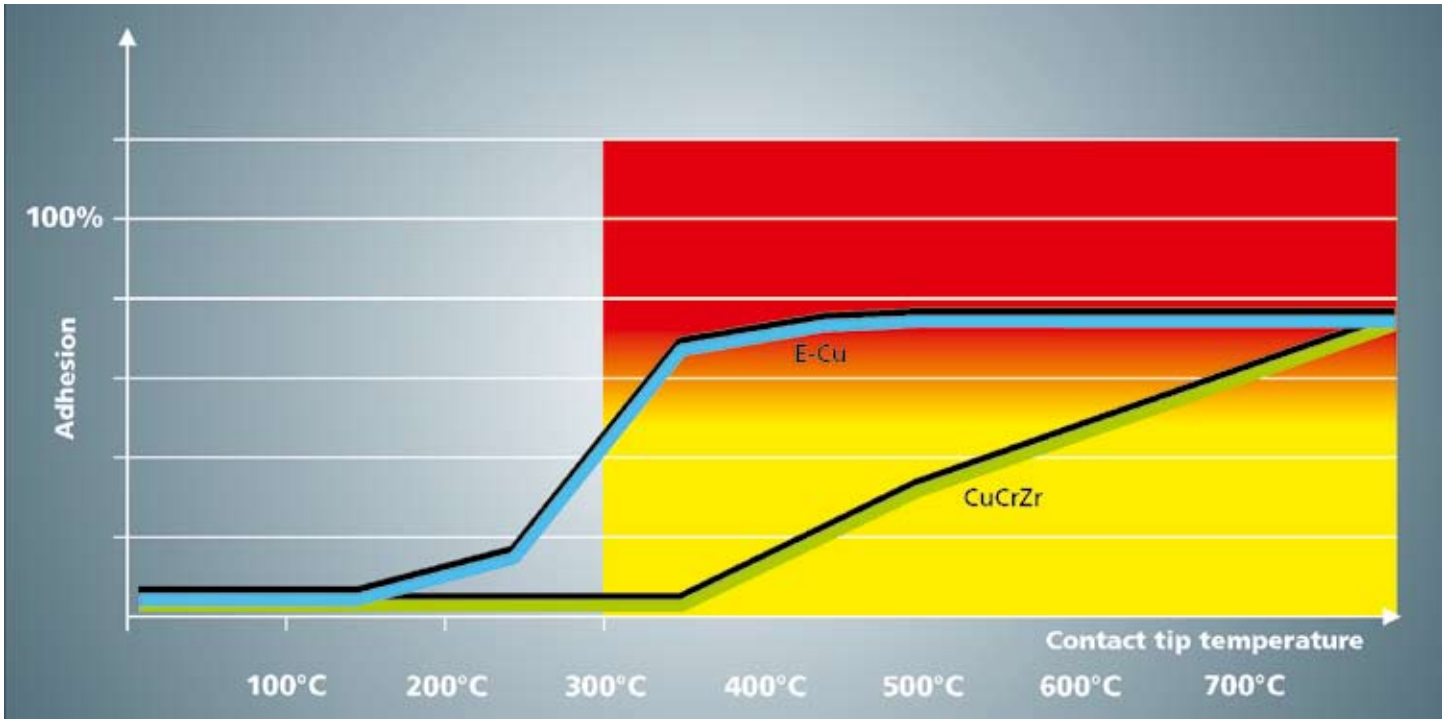
* = Standard on delivery

CHOICE OF CONTACT TIP

Migatronic ML/MV torches are equipped as standard with E-Cu (copper) contact tips in the most frequently used dimension as well as gas nozzles. In many cases optimization of the nozzle may improve welding properties and/or reduce operating costs.
Contact tips for ML/MV torches are available in different materials and lengths so as to ensure best possible welding result.

For MIG pulse welding and aluminium welding we recommend longer contact tips, combined with longer gas nozzles, for optimization of welding current and gas shielding.
A slim contact tip will have a lower temperature, as it will receive less radiant heat from the arc. For optimization we recommend CuCrZr (copper, chromium, zircorium) contact tips which are considerably harder and less sensitive to high temperatures contrary to the E-Cu type which will become soft and adhere to the welding wire if the temperature in the contact tip exceeds 300°C (please see the curve below).

For details about Migatronic contact tips, please see overleaf.



CHOICE OF TIP ADAPTOR - MATERIAL AND DESIGN

Some types of Migatronic torches with separate tip adaptors can be equipped with various designs of tip adaptors. This allows the welder to optimise to another type of contact tip (thread/ length).

A tip adaptor made of CuCrZr will increase the performance of the torch. A standard tip adaptor is made of Ms (brass) which is characterized by its strength, but the thermal conductivity is not optimal. CuCrZr is characterized by the strength and ductility of Ms and the thermal conductivity of E-Cu.

The Migatronic MV 450/550 torches are supplied with either integrated or separate tip adaptors.

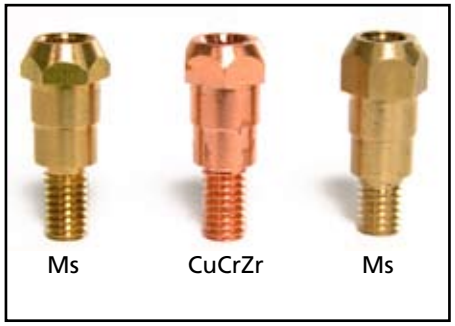
Torches with integrated tip adaptors have certain advantages in terms of performance, but the swan neck must be replaced if thread for contact tip becomes defective. For maximum performance of a given size of torch we recommend integrated tip adaptors.

The performance of a torch with separate tip adaptor will typically be lower than the performance of a torch with integrated tip adaptor. The advantage is, however, that the tip adaptor can be replaced. The FKS types have separate tip adaptors with direct connection to the cooling water. That is why they are up to the performance standard of torches with integrated tip adaptors.

The MV 500 FKS type is equipped as standard with separate CuCrZr tip adaptor.

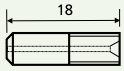
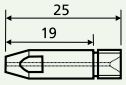
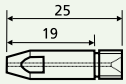
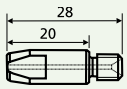
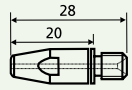
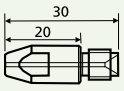
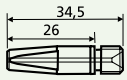
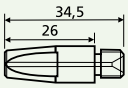
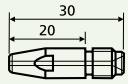
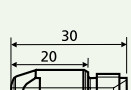
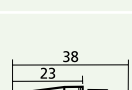
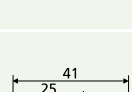
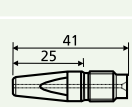
For details about tip adaptors for the individual types of torches, please see pages 3-7.

ML/MV 240



MV 450/550

MIGATRONIC CONTACT TIPS

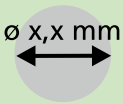
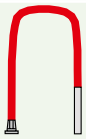
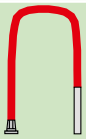
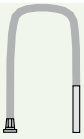
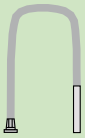
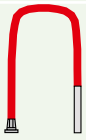
Contact tip - design and length	Item no.	Item description	ML 120 D	ML 140	ML 130	ML 150	ML 240	ML 250	ML 300	ML 360	MV 240	MV 450	MV 550	MV 450 HD-S	MV 550 HD-S	MV 400 FKS	MV 500 FKS
	M 5																
	80130140	ø 0.6 M5 ø 5 x 18 mm Cu		•													
	80130141	ø 0.8 M5 ø 5 x 18 mm Cu		•													
	80130142	ø 1.0 M5 ø 5 x 18 mm Cu		•													
	M 6																
	80130001	ø 0.6 M6 ø 6 x 25 mm Cu nickel-plated	•														
	80130002	ø 0.8 M6 ø 6 x 25 mm Cu nickel-plated	•														
	80130003	ø 1.0 M6 ø 6 x 25 mm Cu nickel-plated	•														
	80130004	ø 1.2 M6 ø 6 x 25 mm Cu nickel-plated	•														
	80130101	ø 0.6 M6 ø 6 x 25 mm Cu	•		(•)	(•)	(•)	(•)									
	80130102	ø 0.8 M6 ø 6 x 25 mm Cu	•		(•)	(•)	(•)	(•)									
	80130103	ø 1.0 M6 ø 6 x 25 mm Cu	•		(•)	(•)	(•)	(•)									
	80130104	ø 1.2 M6 ø 6 x 25 mm Cu	•		(•)	(•)	(•)	(•)									
	80130201	ø 0.6 M6 ø 8 x 28 mm Cu				•	•	•	•	•	•						
	80130202	ø 0.8 M6 ø 8 x 28 mm Cu				•	•	•	•	•	•						
	80130203	ø 1.0 M6 ø 8 x 28 mm Cu				•	•	•	•	•	•						
	80130204	ø 1.2 M6 ø 8 x 28 mm Cu				•	•	•	•	•	•						
	80131200	ø 0.8 M6 ø 8 x 28 mm CuCrZr				•	•	•	•	•	•						
	80131201	ø 1.0 M6 ø 8 x 28 mm CuCrZr				•	•	•	•	•	•						
	80131202	ø 1.2 M6 ø 8 x 28 mm CuCrZr				•	•	•	•	•	•						
	80131203	ø 1.4 M6 ø 8 x 28 mm CuCrZr				•	•	•	•	•	•						
	80131204	ø 1.6 M6 ø 8 x 28 mm CuCrZr				•	•	•	•	•	•						
	M 8																
	80231101	ø 0.8 M8 ø 10 x 30 mm E-Cu										•	•			•	•
	80231102	ø 1.0 M8 ø 10 x 30 mm E-Cu										•	•			•	•
	80231103	ø 1.2 M8 ø 10 x 30 mm E-Cu										•	•			•	•
	80231106	ø 1.4 M8 ø 10 x 30 mm E-Cu										•	•			•	•
	80231104	ø 1.6 M8 ø 10 x 30 mm E-Cu										•	•			•	•
	80231111	ø 1.0 M8 ø 8 x 35 mm CuCrZr										••	••			••	••
	80231112	ø 1.2 M8 ø 8 x 35 mm CuCrZr										••	••			••	••
	80231113	ø 1.6 M8 ø 8 x 35 mm CuCrZr										••	••			••	••
	80231121	ø 1.0 M8 ø 10 x 35 mm E-Cu										(•)(•)	(•)(•)			(•)(•)	(•)(•)
	80231122	ø 1.2 M8 ø 10 x 35 mm E-Cu										(•)(•)	(•)(•)			(•)(•)	(•)(•)
	80231123	ø 1.6 M8 ø 10 x 35 mm E-Cu										(•)(•)	(•)(•)			(•)(•)	(•)(•)
	80231200	ø 0.8 M8 ø 8 x 30 mm CuCrZr										•	•			•	•
	80231201	ø 1.0 M8 ø 8 x 30 mm CuCrZr										•	•			•	•
	80231202	ø 1.2 M8 ø 8 x 30 mm CuCrZr										•	•			•	•
	80231203	ø 1.6 M8 ø 8 x 30 mm CuCrZr										•	•			•	•
	80231204	ø 1.4 M8 ø 8 x 30 mm CuCrZr										•	•			•	•
	80231205	ø 0.8 M8 ø 10 x 30 mm CuCrZr										•	•			•	•
	80231206	ø 1.0 M8 ø 10 x 30 mm CuCrZr										•	•			•	•
	80231207	ø 1.2 M8 ø 10 x 30 mm CuCrZr										•	•			•	•
	80231208	ø 1.4 M8 ø 10 x 30 mm CuCrZr										•	•			•	•
	80231209	ø 1.6 M8 ø 10 x 30 mm CuCrZr										•	•			•	•
	80231300	ø 0.8 M8 ø 10 x 38 mm CuCrZr										••••	••••			••	
	80231301	ø 1.0 M8 ø 10 x 38 mm CuCrZr										••••	••••			••	
	80231302	ø 1.2 M8 ø 10 x 38 mm CuCrZr										••••	••••			••	
	80231303	ø 1.6 M8 ø 10 x 38 mm CuCrZr										••••	••••			••	
	80231304	ø 2.4 M8 ø 10 x 38 mm CuCrZr										••••	••••			••	
	80231400	ø 0.8 M8 ø 10 x 41 mm CuCrZr														••	••
	80231401	ø 1.0 M8 ø 10 x 41 mm CuCrZr														••	••
	80231402	ø 1.2 M8 ø 10 x 41 mm CuCrZr														••	••
	80231404	ø 1.6 M8 ø 10 x 41 mm CuCrZr														••	••
	M 10																
	80231451	ø 0.8 M10 ø 10 x 40 mm CuCrZr												•	•		
	80231452	ø 1.0 M10 ø 10 x 40 mm CuCrZr												•	•		
	80231453	ø 1.2 M10 ø 10 x 40 mm CuCrZr												•	•		
	80231454	ø 1.6 M10 ø 10 x 40 mm CuCrZr												•	•		

Ring = CuCrZr material

• = Mild steel Fe, stainless steel CrNi and FCW
(•) = Alternative, but we recommend •

• = Aluminium welding
• = For gas nozzles with special length: please see torch type

MIGATRONIC WIRE LINERS

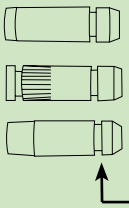
Wire	Wire diameter	Steel liner	Plastic liner (PEH) with bronze neck	Carbon teflon liner (carbon PTFE) with bronze neck	Carbon teflon liner (carbon PTFE) with bronze neck	Teflon liner (PTFE) with bronze neck
						
Length of liner		4.4 m	4.4 m	3.4 m	4.4 m	4.4 m
Fe Mild steel	0.6 mm 0.8 mm 1.0 mm 1.2 mm 1.4 mm 1.6 mm 2.0 mm 2.4 mm	80160520 80160521 80160521 80160522 80160522 80160522 80160523 80160523				
CrNi Stainless steel Cu Copper alloys	0.6 mm 0.8 mm 1.0 mm 1.2 mm 1.4 mm 1.6 mm 2.0 mm 2.4 mm			80160699 80160699 80160706 80160706 80160706	80160700 80160700 80160707 80160707 80160707	80160146* 80160146* 80160147* 80160148*
Fe Flux Steel with flux cored wire	0.6 mm 0.8 mm 1.0 mm 1.2 mm 1.4 mm 1.6 mm 2.0 mm 2.4 mm	80160520 80160521 80160521 80160522 80160522 80160522 80160523 80160523				
CrNi Flux Stainless steel with flux cored wire	1.0 mm 1.2 mm 1.4 mm 1.6 mm			80160699 80160706 80160706 80160706	80160700 80160707 80160707 80160707	
Al Aluminium	1.0 mm 1.2 mm 1.4 mm 1.6 mm		80160711 80160713 80160713 80160713			80160146* 80160147* 80160148* 80160148*

* = Alternative, but we recommend item without *
For other lengths, please see page 11

Typical spare parts for central connections

Swivel nut:
80200303

Gas nipple:
26920008 Ms
80100004 Ms
26910008 CrNi

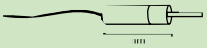


x 1
x 2
x 1

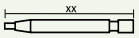
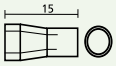
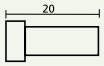
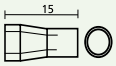
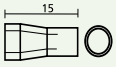
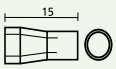
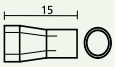
O-ring:
80100710

Spring pins:

Without spring	21.5 mm	80200312
Without spring	26.0 mm	80100748
Without spring	21.0 mm	80100756
Without spring	19.0 mm	80100773
With spring	24.0 mm	80100747
With spring	19.0 mm	80100755



MIGATRONIC WIRE LINERS

Nippel - design and length	Item no.	Item description	Automig X x 120 D	Automig XR x 120 D	Automig XE x 120 D	ML 140	ML 130	ML 150	ML 240	ML250	ML 300	ML 360	MV 240	MV 450	MV 550	MV 400 FKS	MV 550 FKS	MPL/V 300/400 MK I	MPL/V 300/400 MK II
	80160001	PEH 4.2 m 1.5 x 3.2 51 mm nipple																	
	80160005	PEH 4.2 m 2.0 x 3.2 61 mm nipple																	
	80160020	PEH 4.2 m 1.5 x 3.2 61 mm nipple	●																
	80160528	Steel 4.2 m. 1.6 x 3.3 51 mm nipple																	
	80160538	Steel 4.2 m XR 0.8-1.0 61 mm w/O-ring nipple																	
	80160539	Steel 4.2 m XR 0.8-1.0 51 mm w/O-ring nipple		●															
	80160533	Steel 4.2 m 0.8-1.0 /Ø 4.0 light blue without nipple																	
	80160536	Steel 2.0 m 0.8-1.0 /Ø 4.0 light blue			●														
	80160715	PEH white 4.4 m 0.6-0.8 mm w. 165mm steel neck																	
	80160716	PEH blue 4.4 m 0.8-1.0 mm w. 165 mm steel neck				●													
	80160520	Steel 4.4 m w/nipple 0.6 - 0.8 white			●	●													
	80160550	Steel 5.4 m w/nipple 0.6 - 0.8 white																	
	80160521	Steel 4.4 m w/nipple 0.8 - 1.0 blue																	
	80160551	Steel 5.4 m w/nipple 0.8 - 1.0 blue																	
	80160518	Steel 8.4 m w/nipple 0.8 - 1.0 blue																	
	80160522	Steel 4.4 m w/nipple 1.2 - 1.6 red					●	●	●	●	●	●	●	●	●	●	●		
	80160552	Steel 5.4 m w/nipple 1.2 - 1.6 red																	
	80160517	Steel 8.4 m w/nipple 1.0 - 1.6 red																	
	80160523	Steel 4.4 m w/nipple 1.6 - 2.4 yellow																	
	80160553	Steel 5.4 m w/nipple 1.6 - 2.4 yellow																	
 with bronze neck	80160146	PTFE 4.4 m 0.6-0.8 Ø 4.0 white O-ring screw nipple																	
	80160149	PTFE 5.4 m 0.6-0.8 Ø 4.0 white O-ring screw nipple																	
	80160147	PTFE 4.4 m 0.8-1.0 Ø 4.0 blue O-ring screw nipple					●	●	●	●	●	●	●	●	●	●	●		
	80160150	PTFE 5.4 m 0.8-1.0 Ø 4.0 blue O-ring screw nipple					●	●	●	●	●	●	●	●	●	●	●		
	80160148	PTFE 4.4 m 1.2-1.6 Ø 4.0 red O-ring screw nipple																	
	80160151	PTFE 5.4 m 1.2-1.6 Ø 5.4 red O-ring screw nipple																	
 No neck	80160620	PTFE 4.4 m 0.6-0.8 white O-ring screw nipple																	
	80160630	PTFE 5.4 m 0.8-1.0 white O-ring screw nipple																	
	80160621	PTFE 4.4 m 0.8-1.0 blue O-ring screw nipple																	
	80160631	PTFE 5.4 m 0.8-1.0 blue O-ring screw nipple					●	●	●	●	●	●	●	●	●	●	●		
	80160622	PTFE 4.4 m 1.2-1.6 red O-ring screw nipple																	
	80160632	PTFE 5.4 m 1.2-1.6 red O-ring screw nipple																	
	80160623	PTFE 4.4 m 1.6-2.0 yellow O-ring screw nipple																	
	80160633	PTFE 5.4m 1.6-2.0 yellow O-ring screw nipple																	
 with bronze neck	80160699	Carbon 3.4 m 0.8-1.0 mm O-ring screw nipple																	
	80160700	Carbon 4.4 m 0.8-1.0 mm O-ring screw nipple																	
	80160706	Carbon 3.4 m 1.2-1.6 mm O-ring screw nipple					●	●	●	●	●	●	●	●	●	●	●		
	80160707	Carbon 4.4 m 1.2-1.6 mm O-ring screw nipple																	
	80160708	Carbon 5.4 m 1.2-1.6 mm O-ring screw nipple																	
with bronze neck	80160711	PEH blue 4.4 m 0.8-1.0 mm O-ring screw nipple																	
	80160712	PEH blue 5.4 m 0.8-1.0 mm O-ring screw nipple																	
	80160713	PEH blue 4.4 m 1.2-1.6 mm O-ring screw nipple					●	●	●	●	●	●	●	●	●	●	●		
	80160714	PEH blue 5.4 m 1.2-1.6 mm O-ring screw nipple																	
	80160135	PEH 8.5 m PP 1.2-1.6 mm O-ring screw nipple																●	●
	80160137	PTFE 0.3 m red PP neck MKII without nipple																	
	80160705	Carbon 8.5 m 1.2-1.6 mm O-ring screw nipple																●	●

● = Mild steel Fe ● = Stainless steel CrNi ● = Aluminium welding Al

ML 150 - MV 550
FKS - MIG MANAGER®

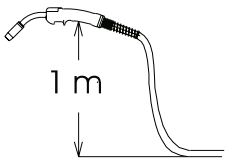
Technical data

We reserve the right to make changes

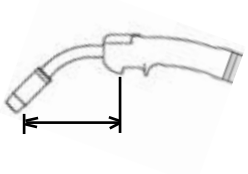
Model	ML 150	ML 240	ML 250	ML 300	ML 360	MV 240	MV 400 FKS	MV450 Integr./sep. tip adaptor	MV500 FKS	MV 550 Integr./sep. tip adaptor
Duty cycle:										
CO_2 60%	180 A	250 A	230 A	295 A	380 A	300 A	415 A	450 A/ 400 A	560 A	550 A/ 500 A
CO_2 100%	160 A	225 A	205 A	260 A	340 A	300 A	415 A	450 A/ 400 A	560 A	550 A/ 500 A
Mixgas 60%	170 A	220 A	225 A	255 A	310 A	270 A	350 A	400 A/ 350 A	520 A	500 A/ 450 A
Mixgas 100%	150 A	195 A	200 A	225 A	270 A	270 A	350 A	400 A/ 350 A	520 A	500 A/ 450 A
Technique:										
Cooling	Air	Air	Air	Air	Air	Water	Water	Water	Water	Water
Min. flow rate watercooling 1 bar	-	-	-	-	-	1 l/min.	1 l/min.	1 l/min.	1 l/min.	1 l/min.
Max. pressure (water)	-	-	-	-	-	5 bar	5 bar	5 bar	5 bar	5 bar
Max. water temp.	-	-	-	-	-	70°C	70°C	70°C	70°C	70°C
Gas flow +/-5%	15 l/min.*	15 l/min.*	15 l/min.*	15 l/min.*	15 l/min.*	15 l/min.	18 l/min.	18 l/min.	18 l/min.	18 l/min.
Wire diameter, mm	0.6-1.2	0.6-1.6	0.6-1.6	0.6-1.6	0.6-1.6	0.6-1.8	0.8-2.4	0.6-3.2	0.8-2.4	0.6-3.2
Cable, mm^2	16	25	25	35	50	16	16	16	16	16
Weight**	0.9 kg	1.2 kg	1.3 kg	1.6 kg	1.8 kg	1.5 kg	1.6 kg	1.6 kg	1.7 kg	1.6 kg
Total weight kg, 3 m	1.8 kg	2.1 kg	2.1 kg	3.9 kg	4.0 kg	3.0 kg	3.1 kg	3.0 kg	3.2 kg	3.0 kg
Total weight kg, 4 m	2.1 kg	2.6 kg	2.6 kg	4.7 kg	4.7 kg	3.6 kg	3.7 kg	3.6 kg	3.8 kg	3.6 kg
Connection	ZA	ZA	ZA	ZA	ZA	ZA	ZA	ZA	ZA	ZA
Length of swan neck***	10.5 cm	12.5 cm	11.5 cm	12.0 cm	16.5 cm	11.0 cm	13.5 cm	12.0 cm	15.0 cm	15.0 cm
Norm:										
IEC 60974-7	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEC 60974-10	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

* Minimum gas flow for compliance with maximum performance

** Weight



*** Length of swan neck



Special solutions for MIG/MAG welding hoses

Custom-built MIG/MAG welding hoses for special purposes can be supplied on request:

- Change of sequence on MIG/MAG torches (Migatronic machines)
- Adjustment of length of welding hose
- Adjustment of length of torch
- Special curve of torch

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