

GF Piping Systems



# Utility

PE Systems, Machines & Tools



**Important Note:**

The technical data given in this catalogue is for preliminary information purposes only, and is published without guarantee. All pictures are for illustrative purposes only and should not be regarded as wholly accurate in every detail. We reserve the right to withdraw or alter the specification on any product without notice.

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# Quality assurance at all levels



**GF Piping Systems products are designed with the highest quality standards to give you the deserved peace of mind. Therefore, not only intensive testing and multiple quality controls are required, but also consistent materials.**

Safety and reliability on the materials can only be achieved through the correct dispersion of the carbon black and other essential additives within the polymer matrix. As a result, GF Piping Systems only use fully compounded 100% virgin PE resins, approved by the PE100+ association. This assures not only a high quality material, but also an outstandingly long lifetime performance.

Whether it is for a 100% virgin PE resin or a completely finished product, GF Piping Systems tests compliance with the guaranteed characteristics thanks to its outstanding laboratory competence.

GF Piping Systems tests the material, joining technology and products down to the smallest detail beyond the measure specified by standards at its accredited laboratory (ISO/IEC 17025) in Schaffhausen, Switzerland. Moving to the ultimate safety level, the outstanding quality provided by GF Piping Systems is proven by the numerous international approvals that it possesses.





GF Piping Systems has always been committed to providing the best quality in products and services. We know that, in more than 100 countries, our solutions are used in vital applications that allow for no failures or unplanned downtimes. Our experts work every day to make sure that you receive the best quality possible. You can trust the products from GF Piping Systems – today and for years to come.

This is expressed in the way we work: quality, safety, and responsibility are implemented in our organization to serve you as well as possible. GF Piping Systems fulfils the ISO 9001, ISO 14001, and OHSAS 18001 standards for quality, environmental, and work safety management. After all, governance and process excellence are essential for quality.

Our products are designed to be safe and easy to install, with lifespans as long as the applications themselves. To ensure this, we subject our products to extensive internal and external tests and reviews. Their outstanding quality is confirmed by the numerous certifications and approvals they have received. These include global and national standards from highly respected organizations and institutions, but also specific customer certifications, as requested.

Our experts are happy to provide you the certificates you need for your applications and guide you through the applicable systems and standards, as needed. Please contact a GF Piping Systems representative near you, or contact our Global Service & Support team by e-mail at [info.au@georgfischer.com](mailto:info.au@georgfischer.com).

Visual quality control of the welding zone at the **ELGEF Plus Branch Saddle Topload**



#### Approvals

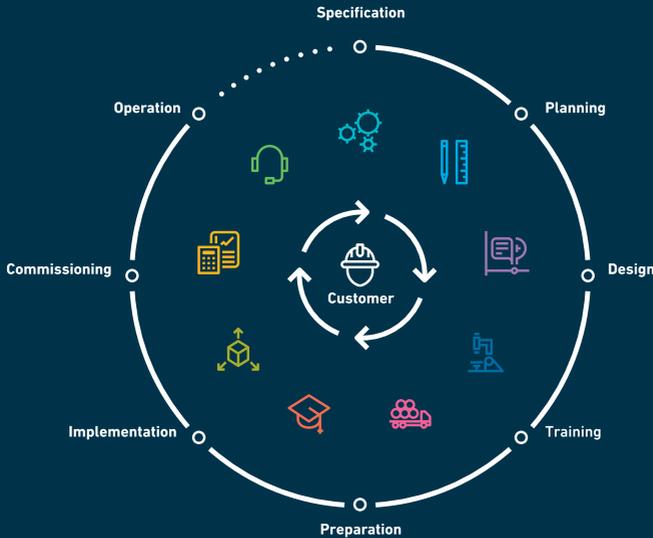


A selection of more than 40 product approvals available, more on request.

## Specialized Solutions

# Ready when you are

With Specialized Solutions, the global leader GF Piping Systems provides project support every step of the way to achieve construction excellence. Allowing owners and planners to concentrate on their daily business without interruption.



GF Piping Systems supports the conception and design process of a project from the outset to ensure that a sustainable and efficient solution is achieved.

Whether in the selection of the right plastic solution from our extensive portfolio, the management of complex sub-projects, or quality control based on recognized

international standards - you can benefit from Specialized Solutions for all application areas and references from a wide range of industries across the entire product range.

### More Information at



[gfps.com/specialized-solutions](https://gfps.com/specialized-solutions)

# Specialized Solutions

## Ready when you are

With Specialized Solutions, GF Piping Systems supports the design and installation of state of the art plastic piping systems, so that owners and planners can concentrate on their daily business without interruption. GF Piping Systems is present every step of the way, from providing planning support on new projects to testing the condition of old systems.

## Recommended services



### Specialized Insight

Integrity of a piping system is essential for owner/operators of water, gas and chemical process plants. Ultrasonic NDT (Non-Destructive Testing) provides testing options at the point of installation, while Pipe Condition Assessment can be employed during operation to acquire real data about the state of piping systems.



### Custom Product Design and Off Site Prefabrication

Having your individual needs and application in focus, our customizing teams forge the solution that fits you best, developing custom made parts to complete systems or special solutions produced in small series, individual consulting and off site prefabrication.

Please email

[aus\\_fabrication@georgfischer.com](mailto:aus_fabrication@georgfischer.com) for more information.



### CONNECT Conrivo

CONNECT Conrivo (Track & Trace) is a cloud-based field data collector, supporting you with a wide range of online functionalities to streamline your decision-making process throughout the implementation and operation of any kind of project.



### GF PS Academy (Training)

GF Piping Systems instructional courses to help you teach your customers and their installers essential knowledge for the welding of pipes and piping components, as well as an in-depth understanding of butt and electrofusion connections. With Specialised Education from GF Piping Systems, we help prevent damage before it occurs, with well-trained and qualified installers.

# ELGEF Plus – The unique modular electrofusion system

The ELGEF Plus modular saddle system from GF Piping Systems offers you the right kind of connection for every application.

With the ELGEF Plus electrofusion saddle at its core, the installation guarantees ...

+ Speed

+ Simplicity

+ Flexibility

The only  
programme  
with a modular  
system!



Saddle



with tapping tee



with pressure tapping valve



with tapping tee, coupler and ball valve



with transition adaptor



with stop-off adaptor



with spigot and cutter



## NeoFlow Pressure Regulating Valve

# Compact, intelligent, and low maintenance



### Smart valve

Integrated pilot valve to optimize pressure regulation and optional integrated equipment to monitor flow and water quality.



### No actuator stem or diaphragm

Significantly reduced complexity. Low maintenance requirements due to very simple design with few components and no elastomer diaphragm.



### Axial flow

More accurate and very stable flow (down to zero), even at a small operating differential. Higher flow precision, also enabling pressure management in low pressure systems.



**9x** lighter than a standard metal PRV

**40%** less time to install than a standard metal PRV

**5x** more compact than a standard metal PRV

# Electrofusion fittings



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### Coupler With integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators
- Removable centre stop
- With integral pipe fixation

d	Code
(mm)	
20	EFC020
25	EFC025
32	EFC032
40	EFC040
50	EFC050
63	EFC063



### Coupler

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators
- Removable centre stop up to d160

d	Code
(mm)	
75	EFC075
90	EFC090
110	EFC0110
125	EFC0125
140	EFC0140
160	EFC0160
180	EFC0180
200	EFC0200
225	EFC0225
250	EFC0250
280	EFC0280
315	EFC0315



### Coupler

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators
- With active reinforcement
- Ø560 – 800 have two separate (bifilar) welding zones (both pipe ends welded separately)
- Material: monofilament
- Ø355 – 500 have two connected (monofilar) welding zones (both pipe ends can be welded simultaneously)

d (mm)	Code
355	EFCO355
400	EFCO400
450	EFCO450
500	EFCO500
560	EFCO560
630	EFCO630
710	EFCO710
800	EFCO800



### Coupler

- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- Only for water applications
- 4mm pin connectors

d (mm)	Code
900	EFCO900



### Coupler

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- 4mm pin connectors
- Limited path fusion indicators
- d160 with removable centre stop

d (mm)	Code
160	EFCO160/17
180	EFCO180/17
200	EFCO200/17
225	EFCO225/17
250	EFCO250/17
280	EFCO280/17
315	EFCO315/17



### Coupler

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- 4mm pin connectors
- Limited path fusion indicators
- With active reinforcement
- Ø560 – 800 have two separate (bifilar) welding zones (both pipe ends welded separately)
- Ø355 – 500 have two connected (monofilar) welding zones (both pipe ends can be welded simultaneously)

d (mm)	Code
355	EFC0355/17
400	EFC0400/17
450	EFC0450/17
500	EFC0500/17
560	EFC0560/17
630	EFC0630/17
710	EFC0710/17
800	EFC0800/17



### Coupler

- **PE100 SDR17** (ISO S8)
- 10 bar Water
- Only for water applications
- 4mm pin connectors

d (mm)	Code
900	EFC0900/17
1000	EFC01000/17
1200	EFC01200/17



### Elbow 90° With integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators

d	Code
(mm)	
20	EFEL20x90
25	EFEL25x90
32	EFEL32x90
40	EFEL40x90
50	EFEL50x90
63	EFEL63x90



### Elbow 90°

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators

d	Code
(mm)	
75	EFEL75x90
90	EFEL90x90
110	EFEL110x90
125	EFEL125x90
140	EFEL140x90
160	EFEL160x90
180	EFEL180x90



### Elbow 90°

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d	Code
(mm)	
200	EFEL200x90
225	EFEL225x90
250	EFEL250x90



### Elbow 45° With integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators

d (mm)	Code
32	EFEL32x45
40	EFEL40x45
50	EFEL50x45
63	EFEL63x45



### Elbow 45°

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators

d (mm)	Code
75	EFEL75x45
90	EFEL90x45
110	EFEL110x45
125	EFEL125x45
140	EFEL140x45
160	EFEL160x45
180	EFEL180x45



### Elbow 45°

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d (mm)	Code
200	EFEL200x45
225	EFEL225x45
250	EFEL250x45

## Elbow 22.5°

- PE 100 SDR 11



d(mm)

Code

90

EFEL90x22.5

110

EFEL110x22.5

125

EFEL125x22.5

160

EFEL160x22.5

180

EFEL180x22.5



### Tee 90° equal With integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators

d (mm)	Code
20	EFET20
25	EFET25
32	EFET32
40	EFET40
50	EFET50
63	EFET63



### Tee 90° equal

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators

d (mm)	Code
75	EFET75
90	EFET90
110	EFET110
125	EFET125
140	EFET140
160	EFET160
180	EFET180



### Tee 90° equal

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d (mm)	Code
200	EFET200
225	EFET225
250	EFET250



### Tee 90° reduced

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators
- \* Two separate fusion zones

	d (mm)	d2 (mm)	Code
	110	90	EFRT110x90
	125	90	EFRT125x90
	140	63	EFRT140x63
	140	75	EFRT140x75
	140	90	EFRT140x90
	140	110	EFRT140x110
	160	63	EFRT160x63
	160	90	EFRT160x90
	160	110	EFRT160x110
	180	125	EFRT180x125
*	200	90	EFRT200x90
*	200	110	EFRT200x110
*	200	160	EFRT200x160
*	225	90	EFRT225x90
*	225	110	EFRT225x110
*	225	160	EFRT225x160
*	250	110	EFRT250x110
*	250	160	EFRT250x160

### Tee 90° Electrofusion Hydrant Tee With AS4087 SS316 backing ring



- **PE100 SDR11**
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators

	d (mm)	d2 (mm)	Code
	125	125	20006A438
	180	125	20006A435
	180	180	20006A473
	250	125	20006A457
	355	125	20006A586



### Reducer With integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators

d (mm)	d2 (mm)	Code
25	20	EFRC25x20
32	20	EFRC32x20
32	25	EFRC32x25
40	20	EFRC40x20
40	25	EFRC40x25
40	32	EFRC40x32
50	32	EFRC50x32
50	40	EFRC50x40
63	32	EFRC63x32
63	40	EFRC63x40
63	50	EFRC63x50
75	63	EFRC75x63



### Reducer

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators

d (mm)	d2 (mm)	Code
90	63	EFRC90x63
110	63	EFRC110x63
110	90	EFRC110x90
125	90	EFRC125x90
160	90	EFRC160x90
160	110	EFRC160x110
180	125	EFRC180x125



### Reducer

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d (mm)	d2 (mm)	Code
200	160	EFRC200x160
225	160	EFRC225x160
225	200	EFRC225x200
250	160	EFRC250x160
250	200	EFRC250x200
250	225	EFRC250x225



### End cap With integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- With integral pipe fixation
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators

d (mm)	Code
20	EFEC20
25	EFEC25
32	EFEC32
40	EFEC40
50	EFEC50
63	EFEC63



### End cap (kit)

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler

<b>d</b>	<b>Code</b>
(mm)	
75	EFEC75
90	EFEC90
110	EFEC110
125	EFEC125
140	EFEC140
160	EFEC160
180	EFEC180
200	EFEC200
225	EFEC225



### End cap

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators

<b>d</b>	<b>Code</b>
(mm)	
160	EFEC160-1PIECE
200	EFEC200-1PIECE
225	EFEC225-1PIECE
250	EFEC250-1PIECE



### Transition coupler PE/stainless steel Female thread Rp

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d (mm)	Rp (inch)	Code
20	½	FSSAWC20x15
25	¾	FSSAWC25x20
32	1	FSSAWC32x25
40	1 ¼	FSSAWC40x32
50	1 ½	FSSAWC50x40
63	2	FSSAWC63x50



### Transition coupler PE/stainless steel Male thread R

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4mm pin connectors
- Limited path fusion indicators
- Supplied as a kit. Further combinations: modular system with threaded adapter and reduction.

d (mm)	R (inch)	Code
20	½	MSSAWC20x15
25	¾	MSSAWC25x20
32	1	MSSAWC32x25
40	1 ¼	MSSAWC40x32
50	1 ½	MSSAWC50x40
63	2	MSSAWC63x50



### Transition coupler PE/brass With loose nut G

- PE 100 SDR 11 (ISO S5)
- 16 bar Water
- With integral pipe fixation
- 4mm pin connectors
- Limited path fusion indicators
- Supplied as a kit. Further combinations: modular system with threaded adapter and reductions.
- Incl. flat gasket for water applications (KTW / WRAS approved)

d (mm)	G (inch)	Code
25	¾	<b>720 910 007</b>
32	1	<b>720 910 008</b>
32	1 ½	<b>720 910 028</b>
50	1 ½	<b>720 910 010</b>
63	1	<b>720 910 021</b>
63	2	<b>720 910 011</b>



### Transition coupler PE/brass Male thread R

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4mm pin connectors
- Limited path fusion indicators
- Supplied as kit with ELGEF Plus Coupler or \*reducer

d (mm)	R (inch)	Code
20	½	<b>720 920 756</b>
*	20 1	<b>720 920 754</b>
25	¾	<b>MBAWC25x20</b>
*	25 1	<b>720 920 763</b>
*	32 ½	<b>720 920 764</b>
	32 ¾	<b>720 920 765</b>
	32 1	<b>MBAWC32x25</b>
	32 1 ¼	<b>720 920 766</b>
	32 1 ½	<b>720 920 767</b>
*	32 2	<b>720 920 768</b>
	40 1	<b>720 920 771</b>
	40 1 ¼	<b>MBAWC40x32</b>
	40 1 ½	<b>720 920 772</b>
*	40 2	<b>720 920 773</b>
	50 1	<b>720 920 776</b>
	50 1 ¼	<b>720 920 777</b>
	50 1 ½	<b>MBAWC50x40</b>
	50 2	<b>720 920 778</b>
	63 1	<b>720 920 781</b>
	63 1 ¼	<b>720 920 782</b>
	63 1 ½	<b>720 920 783</b>
	63 2	<b>MBAWC63x50</b>



### Transition coupler PE/brass Female thread Rp

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d (mm)	Rp (inch)	Code
32	1	FBAWC32x25
40	1 ¼	FBAWC40x32
50	1 ½	FBAWC50x40
63	1	720 920 281
63	1 ¼	720 920 282
63	1 ½	720 920 283
63	2	FBAWC63x50



### Transition elbow PE/stainless steel Female thread Rp

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d (mm)	Rp (inch)	Code
20	½	724 100 256
25	¾	724 100 257
32	1	724 100 258
40	1 ¼	724 100 259
50	1 ½	724 100 260
63	2	724 100 261



**Transition elbow 90° PE/stainless steel  
Male thread R**

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d (mm)	R (inch)	Code
20	½	<b>724 100 756</b>
25	¾	<b>724 100 757</b>
32	1	<b>724 100 758</b>
40	1 ¼	<b>724 100 759</b>
50	1 ½	<b>724 100 760</b>
63	2	<b>724 100 761</b>



**Transition elbow 90° PE/brass  
Male thread R**

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d (mm)	R (inch)	Code
20	½	<b>720 100 756</b>
25	¾	<b>720 100 757</b>
32	1	<b>720 100 758</b>
32	1 ¼	<b>720 100 766</b>
32	1 ½	<b>720 100 767</b>
40	1	<b>720 100 771</b>
40	1 ¼	<b>720 100 759</b>
40	1 ½	<b>720 100 772</b>
50	1	<b>720 100 776</b>
50	1 ¼	<b>720 100 777</b>
50	1 ½	<b>720 100 760</b>
63	1 ¼	<b>720 100 782</b>
63	1 ½	<b>720 100 783</b>
63	2	<b>720 100 761</b>



### Transition elbow 90° PE/brass Female thread Rp

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d (mm)	Rp (inch)	Code
32	1	720 100 258
40	1 ¼	720 100 259
50	1 ½	720 100 260
63	1	720 100 281
63	1 ¼	720 100 282
63	1 ½	720 100 283
63	2	720 100 261



### Transition elbow 90° PE/brass Loose nut G

- PE 100 SDR 11 (ISO S5)
- 16 bar Water
- With integral pipe fixation
- 4mm pin connectors
- Limited path fusion indicators
- Supplied as a kit
- Incl. flat gasket for water applications (KTW / WRAS approved)

d (mm)	G (inch)	Code
25	¾	720 100 007
32	1	720 100 008
32	1 ¼	720 100 018
50	1 ½	720 100 010
63	1	720 100 021
63	2	720 100 011



### Transition adaptor PE/brass (CW617N) Female thread Rp

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

d (mm)	Rp (inch)	Code
25	3/4	FBA25x20
32	1	FBA32x25
40	1 1/4	FBA40x32
50	1 1/2	FBA50x40
63	2	FBA63x50
75	2 1/2	FBA75x65
90	3	FBA90x80
110	4	FBA110x100



### Transition adaptor PE/brass (CW617N) Male thread R

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

d (mm)	R (inch)	Code
20	1/2	MBA20x15
25	3/4	MBA25x20
32	1	MBA32x25
40	1 1/4	MBA40x32
50	1 1/2	MBA50x40
63	2	MBA63x50
75	2 1/2	MBA75x65
90	3	MBA90x80
110	4	MBA110x100
125	4	MBA125x100



**Transition adaptor PE/brass  
Loose nut (CW617N)**

- PE 100 SDR 11 (ISO S5)
- 16 bar Water
- 4mm pin connectors
- Limited path fusion indicators
- Delivered as a kit. Further combinations: modular system with threaded adapter and reductions.
- Only for ELGEF Plus Couplers and Fittings
- Incl. flat gasket for water applications (KTW / WRAS approved)
- WRAS Approved

d (mm)	G (inch)	Code
25	¾	FBA25x20LN
32	1	FBA32x25LN
50	1 ½	FBA50x40LN



**Transition adaptor PE/stainless steel  
Female thread Rp**

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings
- Stainless steel V2A (1.4305)
- Larger dimensions available upon request

d (mm)	Size (inch)	Code
20	½	SSAF20x15
25	¾	SSAF25x20
32	1	SSAF32x25
40	1 ¼	SSAF40x32
50	1 ½	SSAF50x40
63	2	SSAF63x50



**Transition adaptor PE/stainless steel  
Male thread R**

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings
- Stainless steel V2A (1.4305)
- Larger dimensions available upon request

d (mm)	Size (inch)	Code
20	½	SSAM20x15
25	¾	SSAM25x20
32	1	SSAM32x25
40	1 ¼	SSAM40x32
50	1 ½	SSAM50x40
63	2	SSAM63x50



### Transition fitting PE/galvanised steel roll groove

- PE100 SDR11
- 16 bar Water

d (mm)	d1 (inch)	Code
125	4	PESTG125x4*
180	6	PESTG180x6*



### Transition Fitting PE/Nylon

- PE100 SDR11
- Polyamide fittings to AS 2944.2
- \*Threaded Transition (720920211)
- \*\*Flanged Adaptor PE100 (753800014)
- \*\*Flanged Adaptor PA11 (200059611)
- \*\*Comes with Nitrile Gasket

PE Outlet (mm)	Nylon Inlet (mm)	Code
20	12	200 064 985
20	18	200 064 986
20	23	200 064 987
25	18	200 064 988
32	18	200 064 989
40	18	200 064 990
40	32	200 064 991
40	40	200 064 992
40	40	200 064 993
40	50	200 064 994
63	40	200 064 995
*63	50	200 064 997
**110	110	200 064 998

# Electrofusion saddles



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### Electrofusion saddle d63-400mm

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4mm pin connectors
- Limited path fusion indicators
- In combination with parts of the modular system, the SDR compatibility is defined by the tapping-tees, tapping-valves and spigots with cutter.

**Topload:** delivery without lower part for assembling as Top Load with tool no. 799.350.477

	d (mm)	d1 (mm)	Code
	63	63	EFBS63x63
	75	63	EFBS75x63
	90	63	EFBS90x63
	110	63	EFBS110x63
	125	63	EFBS125x63
	140	63	EFBS140x63
	160	63	EFBS160x63
	180	63	EFBS180x63
	200	63	EFBS200x63
	225	63	EFBS225x63
	250	63	EFBS250x63
Topload	280	63	EFBS280x63
Topload	315 - 355	63	EFBS315/355x63
Topload	400	63	EFBS400x63



### Tapping tee

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Long fusion outlet
- O-ring-sealed screw cap
- For ELGEF Plus Branch Saddle d63-225mm, pipe SDR11
- For ELGEF Plus Branch Saddle d110-315mm, pipe SDR17

\* For ELGEF Plus Branch Saddle d250-315mm, pipe SDR 11 and d250-400mm, pipe SDR 17

\*\* For ELGEF Plus Branch Saddle d110-225mm, pipe SDR 11 and d110-315mm, pipe SDR 17

	d (mm)	d1 (mm)	Code
	63	20	EFTT63x20
	63	25	EFTT63x25
	63	32	EFTT63x32
	63	40	EFTT63x40
	63	63	EFTT63x63
*	63	63	193 280 711
**	63	63	193 280 290



### Tapping saddle Monobloc version

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4mm pin connectors
- Fusion indicator
- Long fusion outlet
- O-ring-sealed screw cap

d (mm)	d1 (mm)	Code
32	20	193 281 459



### Tapping saddle Monobloc version

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap

d (mm)	d1 (mm)	Code
40	20	EFTS40x20
40	25	EFTS40x25
40	32	EFTS40x32
50	20	EFTS50x20
50	25	EFTS50x25
50	32	EFTS50x32
63	32	EFTS63x32



### Tapping saddle Monobloc version

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with moulded-on lower part
- 4mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap

<b>d</b> (mm)	<b>d1</b> (mm)	<b>Code</b>
63	20	<b>193 131 932</b>
63	25	<b>193 131 933</b>
63	32	<b>193 131 934</b>
90	20	<b>193 131 952</b>
90	25	<b>193 131 953</b>
90	32	<b>193 131 954</b>
90	63	<b>193 131 957</b>
110	20	<b>193 131 962</b>
110	25	<b>193 131 963</b>
110	32	<b>193 131 964</b>
110	63	<b>193 131 967</b>
125	20	<b>193 131 972</b>
125	25	<b>193 131 973</b>
125	32	<b>193 131 974</b>
125	63	<b>193 131 977</b>
160	20	<b>193 131 992</b>
160	25	<b>193 131 993</b>
160	32	<b>193 131 994</b>
160	63	<b>193 131 997</b>



### Tapping saddle With 360° rotatable outlet

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap
- d355-400mm. Not suitable for pipes if wall thickness is larger than SDR17 pipes.

\* Topload: delivery without lower part for assembling as Top Load with tool no.799.350.477; angle adaptor (799.350.340) for fusion cable required

d (mm)	d1 (mm)	Code	d (mm)	d1 (mm)	Code
63	20	EFTS63x20	160	20	EFTS160x20
63	25	EFTS63x25	160	25	EFTS160x25
63	32	EFTS63x32	160	32	EFTS160x32
63	40	EFTS63x40	160	40	EFTS160x40
63	63	EFTS63x63	160	63	EFTS160x63
75	20	EFTS75x20	180	20	EFTS180x20
75	25	EFTS75x25	180	25	EFTS180x25
75	32	EFTS75x32	180	32	EFTS180x32
75	40	EFTS75x40	180	40	EFTS180x40
75	63	EFTS75x63	180	63	EFTS180x63
90	20	EFTS90x20	200	20	EFTS200x20
90	25	EFTS90x25	200	25	EFTS200x25
90	32	EFTS90x32	200	32	EFTS200x32
90	40	EFTS90x40	200	40	EFTS200x40
90	63	EFTS90x63	200	63	EFTS200x63
110	20	EFTS110x20	225	20	EFTS225x20
110	25	EFTS110x25	225	25	EFTS225x25
110	32	EFTS110x32	225	32	EFTS225x32
110	40	EFTS110x40	225	40	EFTS225x40
110	63	EFTS110x63	225	63	EFTS225x63
125	20	EFTS125x20	250	20	EFTS250x20
125	25	EFTS125x25	250	25	EFTS250x25
125	32	EFTS125x32	250	32	EFTS250x32
125	40	EFTS125x40	250	63	EFTS250x63
125	63	EFTS125x63	250	40	EFTS250x40
140	20	EFTS140x20	* 280	63	EFTS280x63
140	25	EFTS140x25	* 315-355	63	EFTS315/355x63
140	32	EFTS140x32	* 400	63	EFTS400x63
140	40	EFTS140x40			
140	63	EFTS140x63			



### Tapping saddle With 360° rotatable outlet

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Suitable to tap SDR11 pipes
- 4mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap

\* Topload: delivery without lower part for assembling as Top Load with tool no.799.350.477; angle adaptor (799.350.340) for fusion cable required

	d (mm)	d1 (mm)	Code
*	315-355	63	<b>193 131 867</b>
*	400	63	<b>193 131 877</b>



### Y-Tapping Saddle

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Quick & easy assembly with lever system
- Leakage free hot-tapping with integrated cutter and fix end stops
- Low installation height
- Excellent flow characteristics
- Tapping dome compatible to weld with ELGEF Plus cap for additional access safety: Cap 753961610 (for Do3=32mm) / Cap 753961611 (for Do3=63mm)
- Pressure test cap as accessory: 799199290
- 4 mm pin connectors, limited path fusion indicators
- O-ring-sealed screw plug
- Tapping with key SW17

d (mm)	d1 (mm)	Code
180	32	<b>EFYT180x32</b>
180	63	<b>EFYT180x63</b>
200	32	<b>EFYT200x32</b>
200	63	<b>EFYT200x63</b>
225	32	<b>EFYT225x32</b>
225	63	<b>EFYT225x63</b>
250	32	<b>EFYT250x32</b>
250	63	<b>EFYT250x63</b>
280	63	<b>EFYT280x63</b>
315	63	<b>EFYT315x63</b>



## Repair saddle

- **PE 100 SDR 11** (ISO S5)
  - 10 bar Gas / 16 bar Water
  - Complete with lower part
  - 4mm pin connectors
  - Limited path fusion indicators
  - Supplied as kit including Spigot Cap (753.961.011)
- \* Topload: delivery without lower part for assembling as top adaptor (799.350.340) for fusion cable required

	<b>d</b> (mm)	<b>d1</b> (mm)	<b>Code</b>
	63	63	<b>193 130 037</b>
	75	63	<b>193 130 047</b>
	90	63	<b>193 130 057</b>
	110	63	<b>193 130 067</b>
	125	63	<b>193 130 077</b>
	140	63	<b>193 130 087</b>
	160	63	<b>193 130 097</b>
	180	63	<b>193 130 107</b>
	200	63	<b>193 130 117</b>
	225	63	<b>193 130 127</b>
	250	63	<b>193 130 137</b>
*	280	63	<b>193 130 147</b>
*	315 - 355	63	<b>193 130 157</b>
*	400	63	<b>193 130 177</b>

### ELGEP Plus tapping key for electrofusion saddle



- With adjustable tapping depth.

Type	Code	Description
WS - 10	<b>799 198 080</b>	for Monobloc d 40 and 50 mm
WS - 17	<b>799 198 079</b>	for Monobloc d 63 mm, d 90 - 160 mm and all Duobloc saddles
WS - 12.7	<b>799 198 091</b>	for socket with cutter

### ELGEP Plus test cap for electrofusion saddle



- Connecting thread for pressure test is female thread G 3/8"
- **Overview of Tapping Adapter types and Pressure Test Cap**
- for Monobloc d63-160 mm and Branch saddle outlet d160/225 mm
- S 54 For all saddles with rotatable outlet (outlets d20-40mm)  
i.e. Tapping Tee d20-40mm
- S 67 For all Saddles with rotatable outlet (outlets d 50 and 63 mm)  
i.e. Tapping Tee d63mm
- Y for Y-Tapping Saddle d180 to d315

Type	Code	Description
M	<b>799 199 282</b>	for Monobloc d 40 and 50 mm
S 54	<b>799 199 283</b>	for Tapping tee d20-40mm
S 67	<b>799 199 286</b>	for Tapping tee d63mm
MB	<b>799 199 287</b>	for Monobloc d63-160mm and Branch saddle outlet d160/225mm
Y	<b>799 199 290</b>	for Y-Tapping Saddle d180 to d315

### ELGEP Plus tapping key with integrated sealing cap



- The Adapter is used for gas-free tapping under pressure. Type S 54 for tapping saddles with rotatable outlet d 20 - 40 mm (Tapping Tee d32 mm). Type S 67 for tapping saddles with rotatable outlet d50 -63 mm (Tapping Tee d63 mm).

Type	Code	Description
S 54	<b>799 100 061</b>	for Tapping tee d32mm
S 67	<b>799 100 062</b>	for Tapping tee d63mm

### ELGEP Plus assembly key for electrofusion saddle



- For tightening fixation screws

Type	Code	Description
SW8	<b>799 150 378</b>	For all saddles and branch fittings

# Branch saddles



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**Branch saddle**  
**Outlet 90-125mm**



- 10 bar Gas / 16 bar Water
- Branch saddle complete, incl. lower part and 3 screws
- Additional fixing with snatch hinge
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4mm pin connectors
- Limited path fusion indicators
- FM 1613 approved - 15 bar
- \* Delivered without lower part. Pipe fixation with multiple use assembly tool no. 193.281.027

	<b>d</b> (mm)	<b>d1</b> (mm)	<b>Code</b>
	110	90	EFBS110x90
	110	110	EFBS110x110
	125	90	EFBS125x90
	125	110	EFBS125x110
*	140	90	EFBS140x90
*	140	110	EFBS140x110
	160	90	EFBS160x90
	160	110	EFBS160x110
	160	125	EFBS160x125
	180	90	EFBS180x90
	180	110	EFBS180x110
	180	125	EFBS180x125
	200	90	EFBS200x90
	200	110	EFBS200x110
	200	125	EFBS200x125
	225	90	EFBS225x90
	225	110	EFBS225x110
	225	125	EFBS225x125
	250	90	EFBS250x90
	250	110	EFBS250x110
	250	125	EFBS250x125

### Branch saddles toplod

#### Outlet 90-125mm



- 10 bar Gas / 16 bar Water
- Branch saddle for assembling as Topload with tool 799.350.477; angle adaptors (799.350.340) for fusion cable required
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4mm pin connectors
- Limited path fusion indicators

FM 1613 approved - 15 bar

d (mm)	d1 (mm)	Code
280	90	EFBS280x90
280	110	EFBS280x110
280	125	EFBS280x125
315 - 355	90	EFBS315/355x90
315 - 355	110	EFBS315/355x110
315 - 355	125	EFBS315/355x125
400	90	EFBS400x90
400	110	EFBS400x110
400	125	EFBS400x125
450	90	EFBS450x90
450	110	EFBS450x110
450	125	EFBS450x125
500- 630	90	EFBS500/630x90
500- 630	110	EFBS500/630x110
500- 630	125	EFBS500/630x125

### Branch saddles toplod

#### Outlet 160-225mm



- 10 bar Gas / 16 bar Water
- Branch saddle installation only with installation set Topload TL225 (799.300.807)
- Angle adaptors (799 350 340) for fusion cable required
- 4mm pin connectors
- Limited path fusion indicators
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor
- With integrated pressure test port for test cap (799.199.287)

d (mm)	d1 (mm)	Code	d (mm)	d1 (mm)	Code
315	160	EFBS315x160	800	160	EFBS800x160
315	225	EFBS315x225	800	225	EFBS800x225
355	160	EFBS355x160	900	225	EFBS900x225
355	225	EFBS355x225	1000	225	EFBS1000x225
400	160	EFBS400x160			
400	225	EFBS400x225			
450	160	EFBS450x160			
450	225	EFBS450x225			
500	160	EFBS500x160			
500	225	EFBS500x225			
560	160	EFBS560x160			
560	225	EFBS560x225			
630	160	EFBS630x160			
630	225	EFBS630x225			
710	160	EFBS710x160			
710	225	EFBS710x225			



### Branch saddles topload

#### Outlet 315mm

- 10 bar Gas / 16 bar Water
- Branch Saddle installation only with installation set Topload TL500 (799.300.809)
- Angle adaptors (799 350 340) for fusion cable required
- 4mm pin connectors
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor
- With integrated thread for pressure test with separate pressure test cap 799.199.288 (outlet d315) / 799.199.289 (outlet d500)

d (mm)	d1 (mm)	Code
450	315	EFBS450x315
500	315	EFBS500x315
560	315	EFBS560x315
630	315	EFBS630x315
710	315	EFBS710x315
800	315	EFBS800x315
900	315	EFBS900x315
1000	315	EFBS1000x315



### Branch saddle topload

#### Outlet 315-500mm

- 5 bar Gas / 10 bar Water
- Angle adaptors (799 350 340) for fusion cable required
- Branch Saddle installation only with installation set Topload TL500 (799.300.809)
- 4mm pin connectors
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor
- With integrated thread for pressure test with separate pressure test cap 799.199.288 (outlet d315) / 799.199.289 (outlet d500)

d (mm)	d1 (mm)	Code
710	315	EFBS710x315
800	315	EFBS800x315
900	315	EFBS900x315
900	500	EFBS900x500
1000	315	EFBS1000x315
1000	500	EFBS1000x500
1200	315	EFBS1200x315
1200	500	EFBS1200x500
1400	315	EFBS1400x315
1400	500	EFBS1400x500
1600	315	EFBS1600x315
1600	500	EFBS1600x500
2000	315	EFBS2000x315
2000	500	EFBS2000x500

# Spigot fittings for electrofusion and butt fusion



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## Elbow 90°

### SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- Larger dimensions available upon request

d (mm)	Code
20	ELLS20x90/11
25	ELLS25x90/11
32	ELLS32x90/11
40	ELLS40x90/11
50	ELLS50x90/11
63	ELLS63x90/11
75	ELLS75x90/11
90	ELLS90x90/11
110	ELLS110x90/11
125	ELLS125x90/11
140	ELLS140x90/11
160	ELLS160x90/11
180	ELLS180x90/11
200	ELLS200x90/11
225	ELLS225x90/11
250	ELLS250x90/11
280	ELLS280x90/11
315	ELLS315x90/11
355	ELLS355x90/11
400	ELLS400x90/11

### SDR17/17.6

- Long spigot version
- 5 bar Gas / 10 bar Water
- Larger dimensions available upon request

d (mm)	Code
90	ELLS90x90/17
110	ELLS110x90/17
125	ELLS125x90/17
140	ELLS140x90/17
160	ELLS160x90/17
180	ELLS180x90/17
200	ELLS200x90/17
225	ELLS225x90/17
250	ELLS250x90/17
280	ELLS280x90/17
315	ELLS315x90/17
355	ELLS355x90/17
400	ELLS400x90/17





### Elbow 45°

#### SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- Larger dimensions available upon request

d (mm)	Code
20	ELLS20x45/11
25	ELLS25x45/11
32	ELLS32x45/11
40	ELLS40x45/11
50	ELLS50x45/11
63	ELLS63x45/11
75	ELLS75x45/11
90	ELLS90x45/11
110	ELLS110x45/11
125	ELLS125x45/11
140	ELLS140x45/11
160	ELLS160x45/11
180	ELLS180x45/11
200	ELLS200x45/11
225	ELLS225x45/11
250	ELLS250x45/11
280	ELLS280x45/11
315	ELLS315x45/11
355	ELLS355x45/11
400	ELLS400x45/11

#### SDR17/17.6

- Long spigot version
- 5 bar Gas / 10 bar Water
- Larger dimensions available upon request

d (mm)	Code
90	ELLS90x45/17
110	ELLS110x45/17
125	ELLS125x45/17
140	ELLS140x45/17
160	ELLS160x45/17
180	ELLS180x45/17
200	ELLS200x45/17
225	ELLS225x45/17
250	ELLS250x45/17
280	ELLS280x45/17
315	ELLS315x45/17
355	ELLS355x45/17
400	ELLS400x45/17



### AUSGEF Sweep bend 90°

- PE 100 SDR 11 (ISO S5)
- 16 bar Water
- Made out of seamless pipe
- Radius 3 x d
- AS/NZS 4129 and 4130
- \*\* Available in 90°, 60°, 45°, 22°, 11° SDR11 and SDR17
- Larger dimensions available upon request

d (mm)	Code	d (mm)	Code
63	SBLR63x**	250	SBLR250x**
75	SBLR75x**	280	SBLR280x**
90	SBLR90x**	315	SBLR315x**
110	SBLR110x**	355	SBLR355x**
125	SBLR125x**	400	SBLR400x**
140	SBLR140x**	450	SBLR450x**
160	SBLR160x**	500	SBLR500x**
180	SBLR180x**	560	SBLR560x**
200	SBLR200x**	630	SBLR630x**
225	SBLR225x**		

## Tee 90° equal



- Long spigot version
- Larger dimensions available upon request

\* Machined with welded pipes  
\* Segment welded and reinforced

### SDR11

- 10 bar gas / 16 bar water

d (mm)	Code
20	ETLS20/11
25	ETLS25/11
32	ETLS32/11
40	ETLS40/11
50	ETLS50/11
63	ETLS63/11
75	ETLS75/11
90	ETLS90/11
110	ETLS110/11
125	ETLS125/11
140	ETLS140/11
160	ETLS160/11
180	ETLS180/11
200	ETLS200/11
225	ETLS225/11
250	ETLS250/11
280	ETLS280/11
315	ETLS315/11
355	ETLS355/11
400	ETLS400/11
450	ETLS450/11
500	ETLS500/11
*	560 ETLS560/11
*	630 ETLS630/11
*	710 ETLS710/11
*	800 ETLS800/11

### SDR17/17.6

- 5 bar gas / 10 bar water

d (mm)	Code
90	ETLS90/17
110	ETLS110/17
125	ETLS125/17
140	ETLS140/17
160	ETLS160/17
180	ETLS180/17
200	ETLS200/17
225	ETLS225/17
250	ETLS250/17
280	ETLS280/17
315	ETLS315/17
355	ETLS355/17
400	ETLS400/17
450	ETLS450/17
500	ETLS500/17
*	560 ETLS560/17
*	630 ETLS630/17
*	710 ETLS710/17
*	800 ETLS800/17



### Tee 90° reduced PE100 SDR11

- Moulded
- 10 bar Gas / 16 bar Water
- Long spigot version
- Larger dimensions available upon request

d (mm)	d1 (mm)	Code
63	32	RTLS63x32/11
63	40	RTLS63x40/11
63	50	RTLS63x50/11
75	32	RTLS75x25/11
75	50	RTLS75x50/11
75	63	RTLS75x63/11
90	40	RTLS90x40/11
90	50	RTLS90x50/11
90	63	RTLS90x63/11
90	75	RTLS90x75/11
110	40	RTLS110x40/11
110	50	RTLS110x50/11
110	63	RTLS110x63/11
110	75	RTLS110x75/11
110	90	RTLS110x90/11
125	40	RTLS125x40/11
125	50	RTLS125x50/11
125	63	RTLS125x63/11
125	75	RTLS125x75/11
125	90	RTLS125x90/11
125	110	RTLS125x110/11
160	63	RTLS160x63/11
160	75	RTLS160x75/11
160	90	RTLS160x90/11
160	110	RTLS160x110/11
180	90	RTLS180x90/11
180	110	RTLS180x110/11
180	125	RTLS180x125/11
180	160	RTLS180x160/11
225	75	RTLS225x75/11
225	90	RTLS225x90/11
225	110	RTLS225x110/11
225	160	RTLS225x160/11
225	180	RTLS225x180/11
200	63	RTLS200x63/11
200	90	RTLS200x90/11

d (mm)	d1 (mm)	Code
200	110	RTLS200x110/11
200	160	RTLS200x160/11
250	90	RTLS250x90/11
250	110	RTLS250x110/11
250	160	RTLS250x160/11
250	180	RTLS250x180/11
250	200	RTLS250x200/11
315	90	RTLS315x90/11
315	110	RTLS315x110/11
315	160	RTLS315x160/11
315	200	RTLS315x200/11
315	225	RTLS315x225/11
315	250	RTLS315x250/11
355	200	RTLS355x200/11
355	250	RTLS355x250/11
355	315	RTLS355x315/11
400	200	RTLS400x200/11
400	250	RTLS400x250/11
400	315	RTLS400x315/11
400	355	RTLS400x355/11



### Tee 90° Reduced PE100 SDR17

- Moulded
- 5 bar Gas / 10 bar Water
- Long spigot version
- Larger dimensions available upon request

d (mm)	d1 (mm)	Code
90	40	RTLS90x40/17
90	50	RTLS90x50/17
90	63	RTLS90x63/17
90	75	RTLS90x75/17
110	40	RTLS110x40/17
110	50	RTLS110x50/17
110	63	RTLS110x63/17
110	75	RTLS110x75/17
110	90	RTLS110x90/17
125	40	RTLS125x40/17
125	50	RTLS125x50/17
125	63	RTLS125x63/17
125	75	RTLS125x75/17
125	90	RTLS125x90/17
125	110	RTLS125x110/17
160	63	RTLS160x63/17
160	75	RTLS160x75/17
160	90	RTLS160x90/17
160	110	RTLS160x110/17
160	125	RTLS160x125/17
160	140	RTLS160x140/17
180	63	RTLS180x63/17
180	75	RTLS180x75/17
180	90	RTLS180x90/17
180	110	RTLS180x110/17
180	125	RTLS180x125/17
180	160	RTLS180x160/17
200	63	RTLS200x63/17
200	75	RTLS200x75/17
200	90	RTLS200x90/17
200	110	RTLS200x110/17
200	125	RTLS200x125/17
200	160	RTLS200x160/17
200	180	RTLS200x180/17
225	63	RTLS225x63/17

d (mm)	d1 (mm)	Code
225	75	RTLS225x75/17
225	90	RTLS225x90/17
225	110	RTLS225x110/17
225	125	RTLS225x125/17
225	160	RTLS225x160/17
225	180	RTLS225x180/17
225	200	RTLS225x200/17
250	63	RTLS250x63/17
250	75	RTLS250x75/17
250	90	RTLS250x90/17
250	110	RTLS250x110/17
250	125	RTLS250x125/17
250	160	RTLS250x160/17
250	180	RTLS250x180/17
250	200	RTLS250x200/17
250	225	RTLS250x225/17
315	90	RTLS315x90/17
315	110	RTLS315x110/17
315	125	RTLS315x125/17
315	160	RTLS315x160/17
315	180	RTLS315x180/17
315	200	RTLS315x200/17
315	225	RTLS315x225/17
315	250	RTLS315x250/17
315	280	RTLS315x280/17
355	200	RTLS355x200/17
355	250	RTLS355x250/17
355	315	RTLS355x315/17
400	200	RTLS400x200/17
400	250	RTLS400x250/17
400	315	RTLS400x315/17
400	355	RTLS400x355/17



## Reducer PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water

d (mm)	d1 (mm)	Code	d (mm)	d1 (mm)	Code	d (mm)	d1 (mm)	Code
25	20	CRLS25x20/11	140	75	CRLS140x75/11	280	200	CRLS280x200/11
32	20	CRLS32x20/11	140	90	CRLS140x90/11	280	225	CRLS280x225/11
32	25	CRLS32x25/11	140	110	CRLS140x110/11	280	250	CRLS280x250/11
40	20	CRLS40x20/11	140	125	CRLS140x125/11	315	110	CRLS315x110/11
40	25	CRLS40x25/11	160	90	CRLS160x90/11	315	160	CRLS315x160/11
40	32	CRLS40x32/11	160	110	CRLS160x110/11	315	180	CRLS315x180/11
50	20	CRLS50x20/11	160	125	CRLS160x125/11	315	200	CRLS315x200/11
50	25	CRLS50x25/11	160	140	CRLS160x140/11	315	225	CRLS315x225/11
50	32	CRLS50x32/11	180	90	CRLS180x90/11	315	250	CRLS315x250/11
50	40	CRLS50x40/11	180	110	CRLS180x110/11	315	280	CRLS315x280/11
63	32	CRLS63x32/11	180	125	CRLS180x125/11	355	160	CRLS355x160/11
63	40	CRLS63x40/11	180	140	CRLS180x140/11	355	200	CRLS355x200/11
63	50	CRLS63x50/11	180	160	CRLS180x160/11	355	225	CRLS355x225/11
75	40	CRLS75x40/11	200	110	CRLS200x110/11	355	250	CRLS355x250/11
75	50	CRLS75x50/11	200	125	CRLS200x125/11	355	280	CRLS355x280/11
75	63	CRLS75x63/11	200	140	CRLS200x140/11	355	315	CRLS355x315/11
90	50	CRLS90x50/11	200	160	CRLS200x160/11	400	280	CRLS400x280/11
90	63	CRLS90x63/11	200	180	CRLS200x180/11	400	315	CRLS400x315/11
90	75	CRLS90x75/11	225	140	CRLS225x140/11	400	355	CRLS400x355/11
110	40	CRLS110x40/11	225	160	CRLS225x160/11	450	280	CRLS450x280/11
110	50	CRLS110x50/11	225	180	CRLS225x180/11	450	315	CRLS450x315/11
110	63	CRLS110x63/11	225	200	CRLS225x200/11	450	355	CRLS450x355/11
110	75	CRLS110x75/11	250	110	CRLS250x110/11	450	400	CRLS450x400/11
110	90	CRLS110x90/11	250	160	CRLS250x160/11	500	315	CRLS500x315/11
125	63	CRLS125x63/11	250	180	CRLS250x180/11	500	355	CRLS500x355/11
125	75	CRLS125x75/11	250	200	CRLS250x200/11	500	400	CRLS500x400/11
125	90	CRLS125x90/11	250	225	CRLS250x225/11	500	450	CRLS500x450/11
125	110	CRLS125x110/11				560	355	CRLS560x355/11
						560	400	CRLS560x400/11
						560	450	CRLS560x450/11
						560	500	CRLS560x500/11
						630	400	CRLS630x400/11
						630	450	CRLS630x450/11
						630	500	CRLS630x500/11
						630	560	CRLS630x560/11



## Reducer PE100 SDR17/17.6

- 5 bar Gas / 10 bar Water
- Long spigot version

d (mm)	d1 (mm)	Code	d (mm)	d1 (mm)	Code	d (mm)	d1 (mm)	Code
90	50	CRLS90x50/17	250	200	CRLS250x200/17	630	500	CRLS630x500/17
90	63	CRLS90x63/17	250	225	CRLS250x225/17	630	560	CRLS630x560/17
90	75	CRLS90x75/17	280	200	CRLS280x250/17	710	500	CRLS710x500/17
110	40	CRLS110x40/17	280	225	CRLS280x225/17	710	560	CRLS710x560/17
110	50	CRLS110x50/17	280	250	CRLS280x250/17	710	630	CRLS710x630/17
110	63	CRLS110x63/17	315	110	CRLS315x110/17	800	560	CRLS800x560/17
110	90	CRLS110x90/17	315	160	CRLS315x160/17	800	630	CRLS800x630/17
125	63	CRLS125x63/17	315	180	CRLS315x180/17	800	710	CRLS800x710/17
125	75	CRLS125x75/17	315	200	CRLS315x200/17	900	630	CRLS900x630/17
125	90	CRLS125x90/17	315	225	CRLS315x225/17	900	710	CRLS900x710/17
125	110	CRLS125x110/17	315	250	CRLS315x250/17	900	800	CRLS900x800/17
140	75	CRLS140x75/17	315	280	CRLS315x280/17	1000	710	CRLS1000x710/17
140	90	CRLS140x90/17	355	160	CRLS355x160/17	1000	800	CRLS1000x800/17
140	110	CRLS140x110/17	355	200	CRLS355x200/17	1000	900	CRLS1000x900/17
140	125	CRLS140x125/17	355	225	CRLS355x225/17			
160	90	CRLS160x90/17	355	250	CRLS355x250/17			
160	110	CRLS160x110/17	355	280	CRLS355x280/17			
160	125	CRLS160x125/17	355	315	CRLS355x315/17			
160	140	CRLS160x140/17	400	250	CRLS400x250/17			
180	90	CRLS180x90/17	400	280	CRLS400x280/17			
180	110	CRLS180x110/17	400	315	CRLS400x315/17			
180	125	CRLS180x125/17	400	355	CRLS400x355/17			
180	140	CRLS180x140/17	450	280	CRLS450x280/17			
180	160	CRLS180x160/17	450	315	CRLS450x315/17			
200	110	CRLS200x110/17	450	355	CRLS450x355/17			
200	125	CRLS200x125/17	450	400	CRLS450x400/17			
200	140	CRLS200x140/17	500	315	CRLS500x315/17			
200	160	CRLS200x160/17	500	355	CRLS500x355/17			
200	180	CRLS200x180/17	500	400	CRLS500x400/17			
225	140	CRLS225x140/17	500	450	CRLS500x450/17			
225	160	CRLS225x160/17	560	355	CRLS560x355/17			
225	180	CRLS225x180/17	560	400	CRLS560x400/17			
225	200	CRLS225x200/17	560	450	CRLS560x450/17			
250	110	CRLS250x110/17	560	500	CRLS560x500/17			
250	160	CRLS250x160/17	630	400	CRLS630x400/17			
250	180	CRLS250x180/17	630	450	CRLS630x450/17			

## Cap PE100



### SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water

#### Note:

\* Fabricated fitting made from pipe

d (mm)	Code
20	CALS20/11
25	CALS25/11
32	CALS32/11
40	CALS40/11
50	CALS50/11
63	CALS63/11
75	CALS75/11
90	CALS90/11
110	CALS110/11
125	CALS125/11
140	CALS140/11
160	CALS160/11
180	CALS180/11
200	CALS200/11
225	CALS225/11
250	CALS250/11
280	CALS280/11
315	CALS315/11
355	CALS355/11
400	CALS400/11
*	450 CALS450/11
*	500 CALS500/11
*	560 CALS560/11
*	630 CALS630/11

### SDR17/17.6

- 5 bar Gas / 10 bar Water
- Long spigot version

#### Note:

\* Fabricated fitting made from pipe

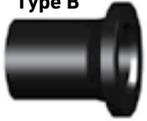
d (mm)	Code
50	CALS50/17
63	CALS63/17
75	CALS75/17
90	CALS90/17
110	CALS110/17
125	CALS125/17
140	CALS140/17
160	CALS160/17
180	CALS180/17
200	CALS200/17
225	CALS225/17
250	CALS250/17
280	CALS280/17
315	CALS315/17
355	CALS355/17
400	CALS400/17
*	450 CALS450/17
*	500 CALS500/17
*	560 CALS560/17
*	630 CALS630/17
*	710 CALS710/17
*	800 CALS800/17
*	900 CALS900/17
*	1000 CALS1000/17

## Flange adaptor

### Jointing face combination serrated/flat metric



Type B



#### Model:

- Long spigot
- Material: PE100
- For IR, butt- and electro fusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- Type A without chamfer, Type B with chamfer

#### SDR11

- Up to d315, suitable for butterfly valvetype 567/578. Above use ecoFIT adaptor for butterfly valves SDR11 (d355-d1200)
- 10 bar Gas / 16 bar Water

#### SDR17/17.6

- Up to d400, suitable for butterfly valvetype 567/578. Above use ecoFIT adaptor for butterfly valves SDR17.6 (d450-d1200)
- 5 bar Gas / 10 bar Water

\* Installation support through moulded ribs

d (mm)	Code	Type
20	SFLS20/11	A
25	SFLS25/11	A
32	SFLS32/11	A
40	SFLS40/11	A
50	SFLS50/11	A
63	SFLS63/11	B
75	SFLS75/11	B
90	SFLS90/11	B
110	SFLS110/11	B
125	SFLS125/11	B
140	SFLS140/11	B
160	SFLS160/11	B
180	SFLS180/11	B
200	SFLS200/11	B
225	SFLS225/11	B
250	SFLS250/11	B
280	SFLS280/11	B
315	SFLS315/11	B
*355	SFLS355/11	A
*400	SFLS400/11	A
*450	SFLS450/11	B
*500	SFLS500/11	B
560	SFLS560/11	A
630	SFLS630/11	A
710	SFLS710/11	A
800	SFLS800/11	A

d (mm)	Code	Type
50	SFLS50/17	A
63	SFLS63/17	A
75	SFLS75/17	A
90	SFLS90/17	A
110	SFLS110/17	A
125	SFLS125/17	B
140	SFLS140/17	B
160	SFLS160/17	B
180	SFLS180/17	A
200	SFLS200/17	B
225	SFLS225/17	B
250	SFLS250/17	B
280	SFLS280/17	B
315	SFLS315/17	B
355	SFLS355/17	A
400	SFLS400/17	A
450	SFLS450/17	A
500	SFLS500/17	A
560	SFLS560/17	A
630	SFLS630/17	A
710	SFLS710/17	A
800	SFLS800/17	A
900	SFLS900/17	A
1000	SFLS1000/17	A



## AUSGEF Maxi Stub full face flange adaptor PE100 with AS4087 SS316 backing ring

### Model:

- For IR, butt- and electro fusion
- Long spigot version
- 10 bar Gas / 16 bar Water

\*Injection moulded

### Maxi Stub with backing ring

	d (mm)	Code
*	90	200 065 132
*	110	200 065 133
*	125	200 064 808
*	160	200 065 134
*	180	200 065 135
*	200	200 065 136
	225	200 065 137
	250	200 065 138
	280	200 065 139
	315	200 065 140
	315	200 065 141
	355	200 065 142
	400	200 065 143
	450	200 065 144
	450	200 065 145
	500	200 065 146
	560	200 065 147
	630	200 065 148
	710	200 065 149

### Maxi Stub without backing ring

	d (mm)	Code
*	90	SFFF90x3"
*	110	SFFF110x4"
*	125	SFFF125x4"
*	160	SFFF160x6"
*	180	SFFF180x6"
*	200	SFFF200X8"
	225	SFFF225x8"
	250	SFFF250x10"
	280	SFFF280x10"
	315	SFFF315x10"
	315	SFFF315x12"
	355	SFFF355x12"
	400	SFFF400x16"
	450	SFFF450x15"
	450	SFFF450x16"
	500	SFFF500x18"
	560	SFFF560x20"
	630	SFFF630x24"
	710	SFFF710x28"



## AUSGEF Stub flange PE100

### Model:

- For IR and butt fusion
- Short spigot version
- Machined

### SDR11

- 10 bar Gas / 16 bar Water

d (mm)	Code
63	<b>200 063 059</b>
75	<b>200 063 060</b>
90	<b>200 063 061</b>
110	<b>200 063 063</b>
125	<b>200 063 065</b>
140	<b>200 063 066</b>
160	SFSS160/11
180	SFSS180/11
200	SFSS200/11
225	SFSS225/11
250	SFSS250/11
280	SFSS280/11
315	SFSS315/11
355	SFSS355/11
400	SFSS400/11
450	SFSS450/11
500	SFSS500/11
560	SFSS560/11
630	SFSS630/11
710	SFSS710/11
800	SFSS800/11
900	SFSS900/11
1000	SFSS1000/11
1200	SFSS1200/11

### SDR17 / 17.6

- 5 bar Gas / 10 bar Water

d (mm)	Code
63	<b>200 063 105</b>
75	<b>200 063 106</b>
90	<b>200 063 107</b>
110	<b>200 063 109</b>
125	<b>200 063 111</b>
140	<b>200 063 112</b>
160	SFSS160/17
180	SFSS180/17
200	SFSS200/17
225	SFSS225/17
250	SFSS250/17
280	SFSS280/17
315	SFSS315/17
355	SFSS355/17
400	SFSS400/17
450	SFSS450/17
500	SFSS500/17
560	SFSS560/17
630	SFSS630/17
710	SFSS710/17
800	SFSS800/17
900	SFSS900/17
1000	SFSS1000/17
1200	SFSS1200/17

# Medium Spigot Fittings SDR11 / SDR17



## Elbow 45°

d(mm)	Code	Spigot Length	Code	Spigot Length
355	ELMS355x45/11 (145mm spigot)		ELMS355x45/17 (145mm spigot)	
400	ELMS400x45/11 (145mm spigot)		ELMS400x45/17 (145mm spigot)	
450	ELMS450x45/11 (115mm spigot)		ELMS450x45/17 (115mm spigot)	
500	ELMS500x45/11 (115mm spigot)		ELMS500x45/17 (115mm spigot)	
630	ELMS630x45/11 (125mm spigot)		ELMS630x45/17 (125mm spigot)	



## Elbow 90°

d(mm)	Code	Spigot Length	Code	Spigot Length
355	ELMS355x90/11 (145mm spigot)		ELMS355x90/17 (145mm spigot)	
400	ELMS400x90/11 (145mm spigot)		ELMS400x90/17 (145mm spigot)	
450	ELMS450x90/11 (115mm spigot)		ELMS450x90/17 (115mm spigot)	
500	ELMS500x90/11 (115mm spigot)		ELMS500x90/17 (115mm spigot)	
630	ELMS630x90/11 (125mm spigot)		ELMS630x90/17 (125mm spigot)	



## Equal Tee 90°

d(mm)	Code	Spigot Length	Code	Spigot Length
355	ETMS355/11 (155mm spigot)		ETMS355/17 (155mm spigot)	
400	ETMS400/11 (145mm spigot)		ETMS400/17 (145mm spigot)	
450	ETMS450/11 (130mm spigot)		ETMS450/17 (130mm spigot)	
500	ETMS500/11 (140mm spigot)		ETMS500/17 (140mm spigot)	
630	ETMS630/11 (125mm spigot)		ETMS630/17 (125mm spigot)	

# Backing rings



Backing rings	Page
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### AUSGEF Backing rings stainless steel (SS316)

- For use with PE Flange Adapters

**Remark:**

\*Use AS4087 / Table D

d (mm)	ANSI 150 Code	AS4087 / T-D Code	Table E Code
20	BRA20SS	BRDE20SS	*
25	BRA25SS	BRDE25SS	*
32	BRA32SS	BRDE32SS	*
40	BRA40SS	BRDE40SS	*
50	BRA50SS	BRDE50SS	*
63	BRA63SS	BRDE63SS	*
75	BRA75SS	BRDE75SS	*
90	BRA90SS	BRDE90SS	*
110	BRA110SS	BRD110SS	BRE110SS
125	BRA125SS	BRD125X4SS	BRE125X4SS
140	BRA140SS	BRDE140SS	BRDE140SS
160	BRA160SS	BRD160SS	BRE160SS
180	BRA180SS	BRD180SS	BRE180SS
200	BRA200SS	BRD200SS	BRE200SS
225	BRA225SS	BRD225SS	BRE225SS
250	BRA250SS	BRD250SS	BRE250SS
280	BRA280SS	BRD280SS	BRE280SS
315	BRA315SS	BRD315SS	BRE315SS
355	BRA355SS	BRDE355SS	BRDE355SS
400	BRA400SS	BRDE400SS	BRDE400SS
450	BRA450SS	BRD450SS	BRE450SS
500	BRA500SS	BRDE500SS	BRDE500SS
560	BRA560SS	BRD560SS	BRE560SS
630	BRA630SS	BRD630SS	BRE630SS

## AUSGEF Backing rings galvanised (carbon steel)



- For use with PE Flange Adapters

### Remark:

\*Use AS4087 / Table D

d (mm)	ANSI 150 Code	AS4087 / T-D Code	Table E Code
20	BRA20G	BRDE20G	*
25	BRA25G	BRDE25G	*
32	BRA32G	BRDE32G	*
40	BRA40G	BRDE40G	*
50	BRA50G	BRDE50G	*
63	BRA63G	BRDE63G	*
75	BRA75G	BRDE75G	*
90	BRA90G	BRDE90G	
110	BRA110G	BRD110G	BRE110G
125	BRA125G	BRD125x4G	BRE125x4G
140	BRA140G	BRDE140G	BRDE140G
160	BRA160G	BRD160G	BRE160G
180	BRA180G	BRD180G	BRE180G
200	BRA200G	BRD200G	BRE200G
225	BRA225G	BRD225G	BRE225G
250	BRA250G	BRD250G	BRE250G
280	BRA280G	BRD280G	BRE280G
315	BRA315G	BRD315G	BRE315G
355	BRA355G	BRDE355G	BRDE355G
400	BRA400G	BRDE400G	BRDE400G
450	BRA450G	BRD450G	BRE450G
500	BRA500G	BRDE500G	BRDE500G
560	BRA560G	BRD560G	BRE560G
630	BRA630G	BRD630G	BRE630G

# ELGEF Plus Ball valve



ELGEF Plus Ball valve	Page
	ELGEF Plus Ball valve d20-225
	ELGEF Plus Ball valve d110-630



### Ball Valve d20-225

- 10 bar Gas / 16 bar Water
- d160 up to d225 are supplied with base plate and straps
- Regarding pressure rate and application local standards and regulations have to be considered
- \* In accordance with ANSI B16.40

d (mm)	Code
20	BVPE20/11
25	BVPE25/11
32	BVPE32/11
40	BVPE40/11
50	BVPE50/11
63	BVPE63/11
75	BVPE75/11
90	BVPE90/11
110	BVPE110/11
125	193 103 040
160	193 103 042
180	193 103 043
200	193 103 044
*	193 103 045



### Ball Valve Standard d110-630

#### Model:

- 10 bar Gas / 16 bar Water
- Complete with gearbox
- For extension spindles with polygon connection
- Valves supplied with single purge, double purge, bypass available upon request

d (mm)	Code
110	200 063 545
125	BVPE125/11
160	BVPE160/11
200	BVPE200/11
225	BVPE225/11
250	BVPE250/11
315	BVPE315/11
355	200 064 332
400	200 064 345
450	200 064 358
630	200 064 371

# Machines, tools & accessories



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### MSA 160 Automatic Electrofusion Unit

The MSA 160 automatic electro fusion unit combines light weight and compact design, for in-stallers who need to weld fittings up to diameter 160mm, in building technology and gas/water distribution applications. The unit is extremely simple to use, with a few basic operations required to operators: connect, confirm, scan, and start the fusion.

It is robust, safe and ergonomic.

The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.

The unit has 500 fusion protocols permanently stored in the internal memory. The user can copy the fusion reports on an USB stick to print them out in PDF format.

Scope of delivery includes: 1 pair of angle adapter clips 4.0 mm, operating instructions and robust transport case.

#### Technical Data:

- Operating temperature: -10°C to 45°C
- Fusion data input mode: bar code, manual
- Mains voltage: 230V (205V - 255V)
- Mains frequency: 40-70 Hz
- Welding technique: Voltage controlled
- Fusion voltage: 8-42 V
- Fusion current: 50 A (max)
- Internal memory capacity: 500 protocols
- Fittings range: d20-160 mm
- Protocols format: PDF, CSV
- USB Port: Type A
- Protection factor: Class 1 / IP 54
- Fusion cable: 3 m
- Mains cable: 4 m
- Weight: 13 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: English, Italian, Chinese and French

	Type	Code	Weight (kg)
Manual mode version		<b>790 160 065</b>	12.000
Barcode (scanner) and manual mode version		<b>790 160 066</b>	15.000

## MSA 2.0 Automatic Electrofusion Unit



The MSA 2.0 automatic electrofusion unit combines light weight and high efficiency, thanks to its inverter technology. The unit is extremely fast and simple, with three basic operations required to operators: connect, scan, start the fusion.

The MSA 2.0 has 350 protocols permanently stored in the internal memory.

It is robust, safe and ergonomic.

All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive. The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.

Scope of delivery includes: transport box, 1 pair of angle adapter clips 4.0 mm and operating instructions.

### Technical Data:

- Operating temperature: -20°C to +50°C
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- Fusion voltage: 8-42 V (48 V)
- Fusion data input mode: bar code, manual
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 3 m
- Dimensions: 280 x 420 x 280 mm
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: all

Type	Code	Weight (kg)
Barcode scanner, transport case	<b>790 156 001</b>	11.900

### MSA 2.1 Automatic Electrofusion Unit with protocols retrieval



The MSA 2.1 automatic electrofusion unit combines light weight and high efficiency, thanks to its inverter technology and furthermore provides fusion documentation in PDF. The unit is extremely fast and simple, with three basic operations required to operators: connect, scan, start the fusion. It is robust, safe and ergonomic.

All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive. The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time. The internal Bluetooth Low Energy device offers the possibility to monitor the fusion from remote and collect the data recorded via wireless with consumer smartphones, to send them to the headquarter even in real time.

The unit has 1000 protocols permanently stored in the internal memory. The user can copy the fusion reports on an USB stick to print them out in PDF format.

Scope of delivery includes: transport box, 1 pair of angle adapter clips 4.0 mm, 1 pair of angle adapter clips 4.7 mm, operating instructions and START/STOP badge. The mini Welding Book is available as option.

#### Technical Data:

- Operating temperature: -20°C to +50°C
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion voltage: 8-42 V (48 V)
- Fusion data input mode: bar code, manual
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 4 m
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: all

	Type	Code	Weight (kg)
Barcode scanner, transport case, mini Welding Book		<b>790 156 003</b>	11.900
Barcode scanner, transport case, mini Welding Book, 8m fusion cable		<b>790 156 010</b>	12.900



### MSA 340 Electrofusion Unit with traceability and GPS function

High performance electrofusion unit providing fusion documentation, including traceability data (ISO 12176-4) , operator ID, job code and automatic GPS coordinates in each fusion record. The internal memory has a capacity of 1000 jointing records. For data transfer the unit is equipped with a USB interface. The record formats are PDF and CSV, both manageable with common and free PC software applications. An intuitive operation menu guides you through the complete jointing process. For fusion data input a barcode scanner is connected. The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and indication of cooling time. Robust aluminum housing with convenient cable winding and handle for weight balanced transport. The unit is suitable for jointing in series.

Scope of delivery: transport case, angle adapters (4.0 mm and 4.7 mm), operation instructions and configuration chart.

#### Technical Data:

- Ambient temperature: -10°C to +45°C
- Mains voltage: 230 V (±15%) or 115 V (±15%)
- Mains frequency: 40 Hz - 70 Hz
- Fusion voltage: 8 - 48V AC
- Fusion current: 100 A (max)
- Suggested power generator: 3.5 kVA (5.0 kVA for fittings with d>200mm)
- Mains cable: 4 m / Fusion cable: 4 m
- Protection factor: Class 1 / IP 65
- Interface: USB (type A) for PC communication and software updates
- Weight: 19 kg
- Dimensions (WxHxD): 280 x 480 x 240 mm
- Display: LCD (20 alphanumerical char. x 4 lines), contrast adjustment
- Configurable languages: 11

	description	Voltage	Code	Weight (kg)
Barcode scanner, carton box		230 V	<b>790 160 062</b>	18.000
Barcode scanner, transport case		230 V	<b>790 160 063</b>	18.000

## MSA 4.0 Electrofusion Unit with full traceability and GPS functions



High performance, light electrofusion unit based on inverter technology, providing a complete documentation of the welding including operator badge, job codes, full traceability data (ISO 12176) and GPS coordinates added automatically to each fusion record.

All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive, the configurable workflow to fit all needs, from the simplest to the most plenty of details.

The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.

For operator identity card, job identification and fusion data input a 1D (or 2D in case of Unitary QR code availability) barcode scanner is connected.

The internal Bluetooth Low Energy device offers the possibility to monitor the fusion from remote and collect the data recorded via wireless with consumer smartphones, to send them to the headquarter even in real time.

The internal memory has a capacity of 5000 jointing records, which can be retrieved using a USB memory stick. The fusion protocols are delivered as PDF and CSV files (both manageable with standard and free PC software applications). For a more sophisticated usage, a BIN file is also available, compatible with the MSA Welding Book to sort, filter out and combine protocols and photos captured from multiple MSA units.

Robust aluminum die casting enclosures and comfortable plastic handle ensure a weight balanced carrying.

Rental time period programmable by the machine owner, unit blocks on expiring date, reset by a dynamic code can be activated.

Scope of delivery: transport case, scanner, 2 pairs of angle adapters (clips 4,0 mm and 4,7 mm), operation instructions, START/STOP badge, configuration chart and mini Welding Book CD including Rental Guardian application.

### Technical Data:

- Mains frequency: 40-70 Hz
- Fusion data input mode: bar code, manual
- Mains voltage: 230 V (190V - 265V)
- Suggested power generators: 3.5 kVA
- Welding technique: Voltage controlled
- Fusion voltage: 8-48 V
- Fusion current: 110 A (max)
- USB Port: Type A
- Operating temperature: -20°C to +50°C
- Bluetooth radio interface
- Internal memory capacity: 5000 protocols
- Protocols format: PDF, CSV and BIN (compatible with MSA Welding Book)
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m
- Fusion cable: 4 m
- Dimensions: 280 x 420 x 280 mm
- Weight: ca. 12.8 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: 27

Type	Description	Code	Weight (kg)
MSA 4.0	1D barcode scanner	<b>790 156 011</b>	19.500
MSA 4.0	2D barcode scanner (QR code reading)	<b>790 156 012</b>	19.500
MSA 4.0	1D barcode scanner, 8m welding cables	<b>790 156 014</b>	13.400

## MSA Accessories



### Adapters 4.0mm for MSA

- Adapters for Electrofusion units with 4 mm connectors.
- Compatible with MSA 210-230, MSA 330-340, MSA 250 – 400, MSA 250 – 400 PLUS

Type	Code	Weight (kg)	Description
4,0 mm	<b>799 350 340</b>	0.058	Angle adapter, black
4,7 mm	<b>799 350 341</b>	0.057	Angle adapter, grey
4,7 mm	<b>799 350 462</b>	0.014	Adapter, white



### Adapters 4.7mm for MSA

- Adapters for Electrofusion units with 4 mm connectors.
- Compatible with MSA 210-230, MSA 330-340, MSA 250 – 400, MSA 250 – 400 PLUS

Type	Code	Weight (kg)	Description
4,7 mm	<b>799 350 341</b>	0.057	Angle adapter, grey

## Peeling tools



### Pipe end peeler RSE

- **Rotary peeler for reliable pipe preparation prior to electrofusion**
- Consisting of 1 tool including corresponding pipe insert
- Applicable on pipe ends and spigot ends of fittings
- Applicable for straight and coiled pipes
- Applicable for metric pipes according to EN12201 and EN1555
- Applicable on pipe material: PE100RC, PE100, PE-Xa, PP
- Operation: manual or with cordless screwdriver
- Maximum peeling length = 85mm
- Peeling blade as reversing knife with 2 cutting edges
- Delivery in transport box

d (mm)	Code	Weight (kg)	SDR
20	<b>799 300 376</b>	0.60	11
25	<b>799 300 377</b>	0.65	11
32	<b>799 300 378</b>	0.65	11
40	<b>799 300 379</b>	0.70	11
50	<b>799 300 380</b>	0.80	11
63	<b>799 300 381</b>	1.00	11
75	<b>799 300 382</b>	1.15	11



### Rotary peeler RS

**Note:**

- Universal peeling for the preparation of all electrofusion joints
- For pipe ends and saddles
- Materials: PE80, PE100, PE100-RC, PE-X, PP

d (mm)	Article	Code	Weight (kg)
40	RS 40	<b>790 136 001</b>	2.340
50	RS 50	<b>790 136 002</b>	2.115
63	RS 63	<b>790 136 003</b>	2.090
75	RS 75	<b>790 136 004</b>	2.350
90	RS 90	<b>790 136 005</b>	2.460
110	RS 110	<b>790 136 006</b>	2.430
125	RS 125	<b>790 136 007</b>	3.895
140	RS 140	<b>790 136 008</b>	3.890
160	RS 160	<b>790 136 009</b>	3.790
180	RS 180	<b>790 136 010</b>	4.150
200	RS 200	<b>790 136 011</b>	3.995
225	RS 225	<b>790 136 012</b>	3.935
250	RS 250	<b>790 136 013</b>	5.575
280	RS 280	<b>790 136 014</b>	5.440
315	RS 315	<b>790 136 015</b>	5.380



### Replacement blade to rotary peeler RS

d-d (mm)	Description	Code	SP	Weight (kg)
40 - 315	Hard metal	<b>790 136 100</b>	1	0.013



### Rotary peeling tool RST 1000

- The flexible peeling tool RST 1000 is suitable for preparing welding zones of saddle and coupler jointings for electrofusion fittings
- To ensure the constant removal of the oxidation layer for PE80 and PE100, a long lasting peeling blade made of carbide is used
- Easy-to-hinge chain links enable the staged operation of pipes d250 to d1000 mm
- Compensation for ovality and variable pipe diameters with loaded spring component in the chain
- Scope of delivery includes: various chain links, spare blade, transport box
- Size transport box = 58 x 48 x 15cm

d-d (mm)	Code	Weight (kg)
250 - 1000	<b>799 300 799</b>	10.552



### Replacement blade for rotary peeling tool RST 1000

d-d (mm)	Code	SP	Weight (kg)	Description
250 - 1000	<b>799 300 802</b>	1	0.020	Replacement blade in carbide



### Pipe end peeler RSE multi

- **Rotary peeler for reliable pipe preparation prior to electrofusion**
- The adjustable basic tool is suitable for holding dimensional pipe inserts from d20 to d75mm
- Applicable on pipe ends and spigot ends of fittings
- Applicable for straight and coiled pipes
- Applicable for metric pipes according to EN12201 and EN1555
- Applicable on pipe material: PE100RC, PE100, PE-Xa, PP
- Operation: manual or with cordless screwdriver
- Maximum peeling length = 75mm
- Peeling blade as reversing knife with 2 cutting edges
- Scope of delivery either without or with the pipe inserts specified in the description
- Supplementary pipe inserts to be ordered separately

d (mm)	Description	Code	Weight (kg)	SDR
	Basic tool + box	<b>799 300 350</b>	0.58	
	Basic tool + case	<b>799 300 351</b>	1.45	
	Basic tool+case+d32+d63	<b>799 300 352</b>	1.88	11
	Basic tool+case+d32+d40+d50+d63	<b>799 300 353</b>	2.18	11
20	Insert RSE	<b>799 300 354</b>	0.30	7
20	Insert RSE	<b>799 300 356</b>	0.05	11
25	Insert RSE	<b>799 300 355</b>	0.10	9
25	Insert RSE	<b>799 300 357</b>	0.10	11
32	Insert RSE	<b>799 300 358</b>	0.10	11
40	Insert RSE	<b>799 300 359</b>	0.10	11
50	Insert RSE	<b>799 300 360</b>	0.20	11
50	Insert RSE	<b>799 300 370</b>	0.20	17
63	Insert RSE	<b>799 300 361</b>	0.33	11
63	Insert RSE	<b>799 300 371</b>	0.33	17
75	Insert RSE	<b>799 300 362</b>	0.47	11
75	Insert RSE	<b>799 300 372</b>	0.47	17
	Blade RSE	<b>799 300 347</b>	0.01	
	Handle RSE	<b>790 308 450</b>	0.08	



### Pipe end peeler RSE multi

- **Rotary peeler for reliable pipe preparation prior to electrofusion**
- Consisting of 1 tool to cover pipe range
- Applicable on pipe ends and spigot ends of fittings
- Applicable for metric pipes according to EN12201 and EN1555
- Applicable for inch pipes of the corresponding sizes (d90-180mm corr. to 3"-6")
- Applicable on pipe material: PE100RC, PE100, PE-Xa, PP
- Operation: manual
- Hard metal peeling blade (Code-no. 790136100, identical to RS peeler)
- Delivery in solid transport case

d (mm)	d1 (mm)	Code
90	180	<b>799 300 364</b>
160	400	<b>799 300 365</b>



### Peeling tool PT 2

- Scope of delivery: 1 tool (size 1, 2 or 3) in a metal carrying case.
- The rotating Peeling Tools PT 2 are suitable for preparing pipe ends (when installing electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX pipes.

d-d (mm)	Code	Weight (kg)	Description
63 - 250	<b>799 300 752</b>	7.500	Size 1, peeling length 140 mm
110 - 400	<b>799 300 755</b>	9.900	Size 2, peeling length 150 mm
110 - 500	<b>799 300 756</b>	3.900	Size 3, peeling length 175 mm



PT 2

### Replacement blade for peeling tool PT 2

d-d (mm)	Code	Weight (kg)	Description
63 - 500	<b>799 150 355</b>	0.008	Replacement blade, 1 piece



### Peeling tool RTC-710

- **Rotary peeler for reliable pipe preparation prior to electrofusion**
- Applicable on pipe ends and spigot ends of fittings
- **Scope of delivery 315:** 1 Scraper arm, 1 Self-centering chuck base, 1 Aluminium transport case
- **Scope of delivery 710:** 1 Scraper arm, 1 Self-centering chuck base, 2 Aluminium transport cases

d-d (mm)	Code	Weight (kg)	Description
75 - 315	<b>799 150 423</b>	9.616	max. working-range 185 mm
355 - 710	<b>799 300 757</b>	31.400	max. working-range 530 mm



### Replacement blade for peeling tool RTC-710

d-d (mm)	Piece	Code	Weight (kg)	Description
75 - 710	1	<b>799 300 586</b>	0.020	Replacement blade, 1 piece



### Clamping tool

#### Double, multi size with universal link

- Recommended for the installation of fittings ELGEF Plus and ecoFIT d40 - 200 and d160 -630mm
- Recommended for the installation of fittings COOL-FIT d32/D75 - d140/D200 and d160/D250 -d450/D630
- The clamping allows installation without tension and avoids movement during fusion and cooling time
- The centrally located adjustable universal link allows installation of electrofusion couplers, elbows and reducers
- Works above, below and alongside the joint
- Adaptor for use with Tee-pieces available (see accessories)

d (mm)	d1 (mm)	Code	Weight (kg)	Description
40	200	<b>799 301 490</b>	4.200	Scope of delivery: 2 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (600x380x250)
160	630	<b>799 301 496</b>	14.100	Scope of delivery: 2 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (780x780x580)



### Multi clamp

- This tool is quick and easy to use and is suitable for straight forward connections to straight lengths of pipe or saddle branch outlets with electrofusion couplers.
- Scope of delivery: 1 tool without accessories.

d-d (mm)	Code	Weight (kg)	Length (mm)	Width (mm)	Height (mm)
20 - 63	<b>799 301 575</b>	0.800	220	80	140



### Inserts for multi clamp

- The inserts are easily and quickly exchanged. A set consists of 4 inserts, each insert with 2 different dimensions

d-d (mm)	Code	Weight (kg)	Description	Length (mm)
25 - 20	<b>799 150 385</b>	0.500	Inserts, Sets	200
32 - 20	<b>799 150 386</b>	0.500	Inserts, Sets	200
32 - 25	<b>799 150 387</b>	0.500	Inserts, Sets	220
40 - 32	<b>799 150 388</b>	0.500	Inserts, Sets	200
50 - 40	<b>799 150 389</b>	0.500	Inserts, Sets	200
63 - 32	<b>799 150 390</b>	0.500	Inserts, Sets	220
63 - 40	<b>799 150 391</b>	0.500	Inserts, Sets	200
63 - 50	<b>799 150 392</b>	0.500	Inserts, Sets	200



### Double clamp

- The user-friendly Double Clamps are suitable for coupler connections. They are quickly and easily put into position and prevent pullout and pipe movements during the fusion time and cooling time.
- Scope of delivery: 1 tool consisting of 1 beam (compact), 2 V-clamps complete with ratchet and belt.



d-d (mm)	Code	Weight (kg)
63 - 125	<b>799 301 484</b>	3.506
110 - 225	<b>799 301 486</b>	7.918
225 - 500	<b>799 301 488</b>	14.735

### Quadruple clamp



- The professional Quadruple Clamps are suitable for coupler connections. They are quickly and easily put into position and ensure a stress-free fusion. They prevent pullout and pipe movements during the fusion and cooling times.
- Recommended for difficult site conditions with large installation-induced stresses.
- Scope of delivery: 1 tool consisting of 1 beam (long), 4 V-clamps complete with ratchet and belt.



d-d (mm)	Code	Weight (kg)
63 - 125	<b>799 301 459</b>	7.142
110 - 225	<b>799 301 461</b>	16.490
225 - 500	<b>799 301 463</b>	28.500



### Swivel clamp

- The Swivel Clamp centralises pipes with dimensions from d63 to 180 mm automatically. Suit-able for coupler connections as well as reductions and bends. The 15° adjustment makes an exact positioning from 15° to 90° possible.



d-d (mm)	Code	Weight (kg)
63 - 180	<b>799 350 358</b>	13.000



### ELGEF Plus Clamping device topload 400

- This clamp and mounting tool is used for top-load Saddles on pipes.
- Proper use: ELGEF Plus electrofusion saddles dimension d280-400mm with outlet d63mm
- Scope of delivery: 1 base mounting clamp, 1 bracket, 2 clamping screws, 2 ratchet straps, 1 transport box

d-d (mm)	Code	Weight (kg)
280 - 400	<b>799 350 475</b>	20.000



### ELGEF Plus Clamping device topload 630

- This clamp and mounting tool is used for top-load Saddles on pipes.
- Proper use: ELGEF Plus electrofusion saddles dimension d280-400mm with outlet d63mm ELGEF Plus Branch fitting for dimension d280-630mm with outlet d90/110/125mm
- Scope of delivery: 1 base mounting clamp, 1 clamping attachment, 1 bracket, 2 clamping screws, 2 ratchet straps, 1 transport box

d-d (mm)	Code	Weight (kg)
280 - 630	<b>799 350 477</b>	28.400



### ELGEF Plus Installation set topload TL 225

- Suitable for branch saddle d315-1000mm with spigot outlet d160/d225mm
- Use of set is mandatory for the installation of branch saddles
- Set includes frame with tension belts, peeling tool, clamp and transport box
- Patent pending

Code	Weight
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(kg)

<b>799 300 807</b>	<b>48.000</b>
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### ELGEF Plus Installation set topload TL 500

- Suitable for ELGEF Plus branch saddle d450-2000mm with spigot outlet d315 and d500mm
- Use of set is mandatory for the installation of branch saddles
- Set includes frame with tension belts, peeling tool, clamp for outlet d315mm/500mm and transport box
- Patent pending

Code	Weight
------	--------

(kg)

<b>799 300 809</b>	<b>124.000</b>
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### PPC Plastic pipe cutter

For cutting plastic pipes d10-d160mm

d-d (mm)	Article	Code	SP	Weight (kg)	Closest inch (inch)
10 - 63	PPC 63, s max. = 7.2mm	<b>790 109 001</b>	1	0.865	¼ - 2
50 - 110	PPC 110, s max. = 12.7mm	<b>790 109 002</b>	1	1.624	1 ½ - 4
110 - 160	PPC 160, s max. = 19.0mm	<b>790 109 003</b>	1	2.212	4 - 6



### Rotary pipe cutter d63-200mm

- Tool for simple right angle precision cutting of plastic pipe with a wall thickness up to 12 mm PVDF/PVC and up to 20 mm PP/PE --> blade for PP/PE must be ordered separately (Code 790109861)
- Including transport box

d-d (mm)	Code	Weight (kg)
63 - 200	<b>790 109 850</b>	7.000



### Rotary pipe cutter d90-315mm

- Tool for simple right angle precision cutting of plastic pipe with a wall thickness up to 15 mm PVDF/PVC and up to 30 mm PP/PE --> blade for PP/PE must be ordered separately (Code 790109861)
- Including transport box

d-d (mm)	Code	Weight (kg)
90 - 315	<b>790 109 851</b>	5.000



### Deburring tool

- Replacable blade

Code	SP	Weight (kg)
<b>790 205 082</b>	1	0.058



## Plastic pipe cutter PEcut 1200

- **Plastic pipe cutter for precise and safe cutting of plastic pipes**
- Battery powered, oil-free chain saw with unique clamping and guiding mechanism
- Large application range from d250 - 1200mm, 10" - 46"
- Large application range COOL-FIT 160/250mm (d/D) - 450/630mm (d/D)
- Applicable for pipe wall thickness from 10 - 180mm
- Recommended for solid wall PE pipes and pre-insulated COOL-FIT pipes
- Recommended on pipe material: PE 100, PE 100-RC, PP
- Minimum axial space requirement = 37 cm
- Minimum radial space requirement = 35 cm
- **Scope of delivery:**
- Please observe the description to select the country-specific variant
- Battery powered cordless chain saw
- Support wagon
- 3 x Roller wagon, 2 x Tensioning belt with roll-on system, 2 x Quick link
- 2 x Battery pack CAS 5.5Ah, 1 x Charger LG 12/18 V
- Delivery in solid transport case (L x B x H = 665 x 562 x 250 mm)

d (mm)	d1 (mm)	Code	Description
250	1200	<b>799 198 150</b>	PEcut 1200-230V, Charger LG12/18V



### Tangit KS-Cleaning tissues

- Special cleaning agent for plastic fusion connections with PP, PE, PVDF and PB.
- **Suitable for Tangit Rapid. MUST NOT be used for solvent cementing**
- For plastic welding joints PB, PE, PP, PVDF
- DW 5290 BR 0464
- DVGW approved

Contents	Code	Weight (kg)
1 dispenser with 100 tissues	<b>799 298 024</b>	0.333



### Degreasing tissues

- For degreasing the PE pipe surface prior to fusion

description	Type	Code	SP	Weight (kg)
For pipes up to d225 mm	large	<b>799 496 011</b>	100	0.008



### Marker

Type	Code	Weight (kg)
silver	<b>799 350 364</b>	0.010



### Measuring tape (circumference and diameter)

- Circumference: 2 m / 79 inch
- Diameter: 630 mm / 25 inch

Code	SP	Weight (kg)
<b>790 205 087</b>	1	0.045

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## Utility Planning Fundamentals



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