



aquatechnik®

Solutions for plumbing and plant-engineering

2025

FUSIO-TECHNIK Product Catalog

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PIPE APPLICATIONS

● Recommended for technical advantages

● Possible use

● Not recommended

	multi-color	fuso-technik SDR 11	FIBER-T ISO FIBER-T	FIBER-COND ISO FIBER-COND	FIBER-LIGHT ISO FIBER-LIGHT	FIBER UVRES
 High temperature drinkable water	●	●	●	●	●	●
 Low temperature drinkable water	●	●	●	●	●	●
 Heating	●	●	●	●	●	●
 Air Conditioning/Cooling	●	●	●	●	●	●
 Chilled water	●	●	●	●	●	●
 Swimming pools	●	●	●	●	●	●
 Heating/Cooling sport facilities	●	●	●	●	●	●
 Conveyance of chemical products*	●	●	●	●	●	●
 Rain water	●	●	●	●	●	●
 Irrigation	●	●	●	●	●	●
 Compressed air	●	●	●	●	●	●
 Floor heating/Cooling	●	●	●	●	●	●
 Gas installations	●	●	●	●	●	●
 Shipyards	●	●	●	●	●	●
 District heating**	●	●	●	●	●	●
 Geothermal civil plants	●	●	●	●	●	●
 Geothermal industrial plants	●	●	●	●	●	●
 Agriculture	●	●	●	●	●	●
 UV exposure	●	●	●	●	●	●
 Fire resistance	●	●	●	●	●	●

* After technical valuation by the company

** High temperature (max 194°F/ 90°C)

FITTING APPLICATIONS

● Recommended for technical advantages

● Possible use

● Not recommended

	safety-plus	fusio-technik	iso-technik
 High temperature drinkable water	●	●	●
 Low temperature drinkable water	●	●	●
 Heating	●	●	●
 Air Conditioning/Cooling	●	●	●
 Chilled water	●	●	●
 Swimming pools	●	●	●
 Heating/Cooling sport facilities	●	●	●
 Conveyance of chemical products*	●	●	●
 Rain water	●	●	●
 Irrigation	●	●	●
 Compressed air	●	●	●
 Floor heating/Cooling	●	●	●
 Gas installations	●	●	●
 Shipyards	●	●	●
 District heating**	●	●	●
 Geothermal civil plants	●	●	●
 Geothermal industrial plants	●	●	●
 Agriculture	●	●	●
 UV exposure	●	●	●
 Fire resistance	●	●	●

* After technical valuation by the company

** High temperature (max 194°F/ 90°C)

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Part #	Part #
for part	For part
Desc.	Description
Pipe Ø	Pipe diameter
fitting Ø	Fitting diameter
Con.	Connection
Dim.	Dimension
ND	Nominal dimension
for pipe	For pipe
for fitting	For fitting
Al. Th	Alu. thickness
Ext Ø	External diameter
Int Ø	Internal diameter
L	Length
H	Height
W	Width
thick.	Thickness
	Pack pieces
	Box pieces
	ft. per bag
	ft. per roll
	ft. per pallet
M	Male thread
F	Female thread
sm	Male safety thread
sf	Female safety thread
*	Conditions of the safety system
	Conditions of the fusio-technik system
	Recommended for technical advantages
	Possible use

To avoid mistakes, please, pay attention to the min. quantity of packages. All the dimension are in mm.

fusio-technik®

Pipes made of PP-RCT 125
WOR and fittings made of PP-R
80 Super to be assembled
in polyfusion with standard
threads.
For open and concealed
applications.

*The same reliability
as always, even in larger
dimensions.*



FUSIO-TECHNIK SYSTEM

This system of pipes made of PP-RCT 125 WOR (polypropylene random copolymer with crystallinity and white oxidation resistance) and fittings made of PP-R 80 Super (polypropylene random copolymer) which brought innovation and radical change to the domestic distribution of warm and cold in the 1980s.

This is known and appreciated throughout the world; its elements are connected by thermal polyfusion.

The product significantly improved over the years and the range has been increasingly updated and expanded, confirming an unparalleled success.

Advantages

- for concealed or open systems;
- full-port fittings for maximum flow and low pressure drop;
- resistant to lime, cement, plaster and phenomena of electro-chemical aggression;
- good resistance against lime phenomena;
- complete compatibility with hot and cold potable fluids;
- low cost processing;
- wide range of products

Range

From Ø ½" to Ø 24"

Use

For all the plant-engineering systems, particularly for the conveyance of warm and cold fluids, potable or not with working temperature till to 70°C.

Utilization field

For hygienic-sanitary systems, heating and conditioning, industrial plants for the conveyance of different fluids, compressed air, noble gas and food grade fluids.

In the event of transporting chemical products, check suitability with our Technical Department

Note

- For pipes and fittings Ø 16"- Ø 24" ask for delivery times.
- Custom manifolds on demand.
- Fittings in SDR 5 are made of PP-R; fittings in SDR 11 and 17.6 are made of PP-RCT, with some exceptions.
- The DN value shown in the pipe tables refers to metal pipes and indicates the corresponding plastic pipe.
- All butt-weld, long shank and segmented fittings are compatible with electrical couplings.

Attention!

NPT thread is made of alloy alloy CW511L.

MULTILAYER FIBER-REINFORCED PIPES OF PP-R 80 SUPER AND PP-RCT 125 WORfor polyfusion welding

Figure



Description

faser FIBER-T PIPE RED STRIPED PIPE,

PP-RCT/PP-RF/PP-R, multi-layer pipe to convey hot and cold potable and non-potable fluids, with a fibre-reinforced center layer and an inner layer in PP-RCT WOR (White Oxidation Resistance), inner layer white color, external layer white color with red strips

■ pipe length 19 ft.

Part #		Nominal Pipe Ø	SDR	Ext	thick.	Int
61358U	475'	1/2"	7.4	13/16"	1/8"	9/16"
61360U	380'	3/4"	7.4	1"	1/8"	11/16"
61362U	190'	1"	7.4	1-1/4"	3/16"	15/16"
61364U	190'	1-1/4"	7.4	1-9/16"	3/16"	1-1/8"
61366U	95'	1-1/2"	7.4	1-15/16"	1/4"	1-7/16"
61368U	95'	2"	7.4	2-1/2"	5/16"	1-13/16"
61370U	95'	2-1/2"	7.4	2-15/16"	3/8"	2-1/8"
61372U	57'	3"	7.4	3-9/16"	1/2"	2-9/16"
61374U	38'	3-1/2"	7.4	4-5/16"	5/8"	3-1/8"
61376U	19'	4"	7.4	4-15/16"	11/16"	3-9/16"
61378U	19'	6"	7.4	6-5/16"		
61380U	19'	8"	7.4	7-7/8"		
61382U	19'	10"	7.4	9-13/16"		
61384U	19'	12"	7.4	12-3/8"		



Working conditions

See the tables on pages 138-139



faser FIBER-COND GREY STRIPED PIPE,

PP-RCT/PP-RF/PP-R, multi-layer pipe to convey cold potable and non-potable fluids, with a fibre-reinforced center layer and an inner layer in PP-RCT WOR (White Oxidation Resistance), inner layer white color, external layer white color with grey strips

■ pipe length 19 ft.

Part #		Nominal Pipe Ø	SDR	Ext	thick.	Int
61462U	475'	1"	11	1-1/4"	1/8"	1-1/16"
61464U	380'	1-1/4"	11	1-9/16"	1/8"	1-5/16"
61466U	190'	1-1/2"	11	1-15/16"	3/16"	1-5/8"
61468U	190'	2"	11	2 1/2"	1/4"	2"
61470U	95'	2-1/2"	11	2-15/16"	1/4"	2-7/16"
61472U	95'	3"	11	3-9/16"	5/16"	2-7/8"
61474U	95'	3-1/2"	11	4-5/16"	3/8"	3-9/16"
61476U	57'	4"	11	4-15/16"	7/16"	4"
61478U	38'	6"	11	6-5/16"	9/16"	5-1/8"
61480U	19'	8"	11	7-7/8"	11/16"	6-7/16"
61482U	19'	10"	11	9-13/16"	7/8"	8-1/16"
61484U	19'	12"	11	12-3/8"	1-1/8"	10-1/8"
61486U	19'	14"	11	14"	1-1/4"	11-7/16"
61488U	19'	16"	11	15-3/4"	1-7/16"	12-7/8"



Working conditions

See the tables on pages 138-139

Figure



Description

faser FIBER-LIGHT GREEN STRIPED PIPE,

PP-RCT/PP-RF/PP-R, multi-layer pipe to convey cold potable and non-potable fluids with a fibre-reinforced center layer and an inner layer in PP-RCT WOR (White Oxidation Resistance), inner layer white color, external layer white color with green strips

■ pipe length 19 ft.

Part #		Nominal Pipe Ø	SDR	Ext	thick.	Int
61468UZ	95'	2"	17.6	2-1/2	1/8	2-3/16
61470UZ	95'	2-1/2"	17.6	2-15/16	3/16	2-5/8
61472UZ	57'	3"	17.6	3-9/16	3/16	3-1/8
61474UZ	38'	3-1/2"	17.6	4-5/16	1/4	3-13/16
61476UZ	19'	4"	17.6	4-15/16	1/4	4-3/8
61478UZ	19'	6"	17.6	6-5/16	3/8	5-9/16
61480UZ	19'	8"	17.6	7-7/8	7/16	7
61482UZ	19'	10"	17.6	9-13/16	9/16	8-3/4
61484UZ	19'	12"	17.6	12-3/8	11/16	11
61486UZ	19'	14"	17.6	14	13/16	12-3/8
61488UZ	19'	16"	17.6	15-3/4	7/8	13-5/16
61490UZ	19'	18"	17.6	17-11/16	1	15-11/16
61492UZ	19'	20"	17.6	19-11/16	1-1/8	17-7/16
61494UZ	19'	22"	17.6	22-1/16	1-1/4	19-9/16
61496UZ	19'	24"	17.6	24-13/16	1-3/8	22



Working conditions

See the tables on pages 138-139



faser UVRES PIPE,

PP-RCT/PP-RF/PP-R, multilayer pipe to convey hot and cold potable and non-potable fluids, with an external layer in PP-R mixed with special additives that warrants ultraviolet radiation protection, ensuring high resistance and durability to direct sunlight exposure, with a center layer loaded with special fibers and inner layer in PP-RCT WOR (White Oxidation Resistance), inner layer white color, external layer black color

■ pipe length 19 ft.

Part #		Nominal Pipe Ø	SDR	Ext	thick.	Int
61358SR	475'	1/2"	7.4	13/16	1/8	9/16
61360SR	380'	3/4"	7.4	1	1/8	11/16
61362SR	190'	1"	7.4	1-1/4	3/16	15/16
61364SR	190'	1-1/4"	7.4	1-9/16	3/16	1-1/8
61366SR	95'	1-1/2"	7.4	1-15/16	1/4	1-7/16
61368SR	95'	2"	7.4	2-1/2	5/16	1-13/16
61370SR	95'	2-1/2"	7.4	2-15/16	3/8	2-1/8
61372SR	57'	3"	7.4	3-9/16	1/2	2-9/16
61374SR	38'	3-1/2"	7.4	4-5/16	5/8	3-1/8
61376SR	19'	4"	7.4	4-15/16	11/16	3-9/16
61478SR	19'	6"	11	6-5/16	9/16	5-1/8
61480SR	19'	8"	11	7-7/8	11/16	6-7/16
61482SR	19'	10"	11	9-13/16	7/8	8-1/16
61484SR	19'	12"	11	12-3/8	1-1/8	10-1/8



Working conditions

See the tables on pages 138-139

Figure

Description


SHELL,

zinc-plated steel to support pipes unconcealed horizontal applications

pipe length 13'

long length tolerance $\pm 1.3\%$

Part #		Nominal Pipe Ø	
61508 ^Δ	13'	1/2"	
61510 ^Δ	13'	3/4"	
61512 ^Δ	13'	1"	
61514 ^Δ	13'	1-1/4"	
61516 ^Δ	13'	1-1/2"	
61518 ^Δ	13'	2"	
61520 ^Δ	13'	2-1/2"	
61522 ^Δ	13'	3"	
61524 ^Δ	13'	4"	

FITTINGS OF PP-R 80 SUPER AND PP-RCT 125
for polyfusion welding



Figure



Description

PIPE COUPLING,
socket-welding

Part #			SDR	fitting Ø	
62008U	10	400	5	½"	
62010U	10	300	5	¾"	
62012U	5	150	5	1"	
62014U	5	250	5	1-¼"	
62016U	5	150	5	1-½"	
62018U	1	50	5	2"	
62020U	1	60	5	2-½"	
62022U	1	42	5	3"	
62024U	1	24	5	3-½"	
62026U	1	12	5	4"	

UV RES

Part #			SDR	fitting Ø	
62008SR	10	400	5	½"	
62010SR	10	300	5	¾"	
62012SR	5	150	5	1"	
62014SR	5	250	5	1-¼"	
62016SR	5	150	5	1-½"	
62018SR	1	50	5	2"	
62020SR	1	60	5	2-½"	
62022SR	1	42	5	3"	
62024SR	1	24	5	3-½"	
62026SR	1	12	5	4"	



REDUCED PIPE COUPLING,
socket-welding

Part #			SDR	fitting Ø	
62312U	10	350	5	F ¾" - F ½"	
62316U	5	150	5	F 1" - F ¾"	

UV RES

Part #			SDR	fitting Ø	
62312SR	10	350	5	F ¾" - F ½"	
62316SR	5	150	5	F 1" - F ¾"	



REDUCER M/F,
socket-welding

Part #			SDR	fitting Ø	
62112U	10	400	5	M ¾" - F ½"	
62114U	10	300	5	M 1" - F ½"	
62116U	10	300	5	M 1" - F ¾"	
62118U	5	500	5	M 1-¼" - F ½"	
62120U	5	400	5	M 1-¼" - F ¾"	
62122U	5	300	5	M 1-¼" - F 1"	
62124U	5	300	5	M 1-½" - F ½"	
62126U	5	300	5	M 1-½" - F ¾"	
62128U	5	300	5	M 1-½" - F 1"	
62130U	5	200	5	M 1-½" - F 1-¼"	
62132U	1	150	5	M 2" - F ¾"	
62134U	1	100	5	M 2" - F 1"	
62136U	1	100	5	M 2" - F 1-¼"	
62138U	1	100	5	M 2" - F 1-½"	
62139U	1	100	5	M 2-½" - F 1-¼"	
62140U	1	80	5	M 2-½" - F 1-½"	
62142U	1	80	5	M 2-½" - F 2"	
62144U	1	50	5	M 3" - F 1-¼"	
62152U	1	50	5	M 3" - F 2"	
62153U	1	50	5	M 3" - F 2-½"	
62155U	1	30	5	M 3-½" - F 2"	
62157U	1	30	5	M 3-½" - F 2-½"	
62159U	1	30	5	M 3-½" - F 3"	
62168U	1	30	5	M 4" - F 2-½"	
62170U	1	30	5	M 4" - F 3"	
62172U	1	24	5	M 4" - F 3-½"	

UV RES

Part #			SDR	fitting Ø	
62112SR	10	400	5	M ¾" - F ½"	
62114SR	10	300	5	M 1" - F ½"	
62116SR	10	300	5	M 1" - F ¾"	
62118SR	5	500	5	M 1-¼" - F ½"	
62120SR	5	400	5	M 1-¼" - F ¾"	
62122SR	5	300	5	M 1-¼" - F 1"	
62124SR	5	300	5	M 1-½" - F ½"	
62126SR	5	300	5	M 1-½" - F ¾"	
62128SR	5	300	5	M 1-½" - F 1"	
62130SR	5	200	5	M 1-½" - F 1-¼"	
62132SR	1	150	5	M 2" - F ¾"	
62134SR	1	100	5	M 2" - F 1"	
62136SR	1	100	5	M 2" - F 1-¼"	
62138SR	1	100	5	M 2" - F 1-½"	
62139SR	1	100	5	M 2-½" - F 1-¼"	
62140SR	1	80	5	M 2-½" - F 1-½"	
62142SR	1	80	5	M 2-½" - F 2"	
62144SR	1	50	5	M 3" - F 1-¼"	
62152SR	1	50	5	M 3" - F 2"	
62153SR	1	50	5	M 3" - F 2-½"	
62155SR	1	30	5	M 3-½" - F 2"	
62157SR	1	30	5	M 3-½" - F 2-½"	
62159SR	1	30	5	M 3-½" - F 3"	
62168SR	1	30	5	M 4" - F 2-½"	
62170SR	1	30	5	M 4" - F 3"	
62172SR	1	24	5	M 4" - F 3-½"	

Figure



Description

REDUCER,
butt-welding, long shank

Part #		SDR	fitting Ø	
62172UK	1	7.4	6" - M 3"	
62174UK	1	7.4	6" - M 3-½"	
62176UK	1	7.4	6" - M 4"	
62181UK	1	7.4	8" - M 4"	
62182UK	1	7.4	8" - 6"	



REDUCER,
butt-welding, long shank

Part #			SDR	fitting Ø	
62173U	1	8	11	6" - M3"	
62174U	1	8	11	6" - M3-½"	
62176U	1	10	11	6" - M4"	
62180U	1		11	8" - M4"	
62182U	1		11	8" - 6"	
62184U	1		11	10" - 6"	
62186U	1		11	10" - 8"	
62200U	1		11	12" - 10"	



REDUCER,
butt-welding, short shank

Part #		SDR	fitting Ø	
62214U	1	11	14" - 10"	
62216U	1	11	14" - 12"	
62242U	1	11	16" - 12"	
62244U	1	11	16" - 14"	



REDUCER,
butt-welding, long shank

Part #			SDR	fitting Ø	
62173UZ	1	8	17.6	6" - M 3"	
62174UZ	1	8	17.6	6" - M 3-1/2"	
62176UZ	1	10	17.6	6" - M 4"	
62180UZ	1		17.6	8" - M 4"	
62182UZ	1		17.6	8" - 6"	
62184UZ	1		17.6	10" - 6"	
62186UZ	1		17.6	10" - 8"	
62200UZ	1		17.6	12" - 10"	

Figure	Description			
	REDUCER, butt-welding, short shank			
	Part #		SDR	fitting Ø
	62214UZ	1	17.6	14" - 10"
	62216UZ	1	17.6	14" - 12"
	62242UZ	1	17.6	16" - 12"
	62244UZ	1	17.6	16" - 14"
	62248UZ	1	17.6	18" - 14"
	62250UZ	1	17.6	18" - 16"
	62254UZ	1	17.6	20" - 16"
	62256UZ	1	17.6	20" - 18"
	62260UZ	1	17.6	22" - 18"
	62262UZ	1	17.6	22" - 20"
	62266UZ	1	17.6	24" - 20"
	62268UZ	1	17.6	24" - 22"

UV RES

	REDUCER, butt-welding, short shank			
	Part #		SDR	fitting Ø
	62173SR	1	7.4	6" - 3"
	62174SR	1	7.4	6" - 3-1/2"
	62176SR	1	7.4	6" - 4"
	62180SR	1	7.4	8" - 4"
	62182SR	1	7.4	8" - 6"
	62184SR	1	7.4	10" - 6"
	62186SR	1	7.4	10" - 8"
	62200SR	1	7.4	12" - 10"
	REDUCER, butt-welding, long shank			
	Part #			SDR
	62173UZ	1	8	17.6
	62174UZ	1	8	17.6
	62176UZ	1	10	17.6
	62180UZ	1		17.6
	62182UZ	1		17.6
	62184UZ	1		17.6
	62186UZ	1		17.6
	62200UZ	1		17.6
				fitting Ø
				6" - M 3"
				6" - M 3-1/2"
				6" - M 4"
				8" - M 4"
				8" - 6"
				10" - 6"
				10" - 8"
				12" - 10"

Figure



Description

REDUCER,
butt-welding, short shank

Part #		SDR	fitting Ø	
62214UZ	1	17.6	14" - 10"	
62216UZ	1	17.6	14" - 12"	
62242UZ	1	17.6	16" - 12"	
62244UZ	1	17.6	16" - 14"	
62248UZ	1	17.6	18" - 14"	
62250UZ	1	17.6	18" - 16"	
62254UZ	1	17.6	20" - 16"	
62256UZ	1	17.6	20" - 18"	
62260UZ	1	17.6	22" - 18"	
62262UZ	1	17.6	22" - 20"	
62266UZ	1	17.6	24" - 20"	
62268UZ	1	17.6	24" - 22"	



ELBOW 90°,
socket-welding

Part #			SDR	fitting Ø	
63108U	10	350	5	½"	
63110U	10	250	5	¾"	
63112U	5	100	5	1"	
63114U	5	150	5	1-¼"	
63116U	5	80	5	1-½"	
63118U	1	40	5	2"	
63120U	1	30	5	2-½"	
63122U	1	18	5	3"	
63124U	1	10	5	3-½"	
63126U	1	5	5	4"	

UV RES

Part #			SDR	fitting Ø	
63108SR	10	350	5	½"	
63110SR	10	250	5	¾"	
63112SR	5	100	5	1"	
63114SR	5	150	5	1-¼"	
63116SR	5	80	5	1-½"	
63118SR	1	40	5	2"	
63120SR	1	30	5	2-½"	
63122SR	1	18	5	3"	
63124SR	1	10	5	3-½"	
63126SR	1	5	5	4"	

Figure	Description				
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ELBOW 90°,
 butt-welding, long shank

Part #			SDR	fitting Ø	
63128UK	1	3	7.4	6"	
63130UK	1		7.4	8"	
63128U	1	3	11	6"	
63130U	1		11	8"	
63132U	1		11	10"	
63134U	1		11	12"	

UV RES



ELBOW 90°,
 butt-welding, segmented fitting made of faser FIBER-T pipe

Part #		SDR	fitting Ø	
63132UCK	1	7.4	10"	
63134UCK	1	7.4	12"	



ELBOW 90°,
 butt-welding, segmented fitting made of faser FIBER-COND pipe

Part #		SDR	fitting Ø	
63136UC	1	11	14"	
63138UC	1	11	16"	



ELBOW 90°,
 butt-welding, long shank

Part #			SDR	fitting Ø	
63128UZ	1	3	17.6	6"	
63130UZ	1		17.6	8"	
63132UZ	1		17.6	10"	
63134UZ	1		17.6	12"	

Figure



Description

ELBOW 90°,
butt-welding, segmented fitting made of faser FIBER-LIGHT pipe

Part #		SDR	fitting Ø	
63136UCZ	1	17.6	14"	
63138UCZ	1	17.6	16"	
63140UCZ	1	17.6	18"	
63142UCZ	1	17.6	20"	
63144UCZ	1	17.6	22"	
63146UCZ	1	17.6	24"	

ELBOW 90° M/F,
socket-welding

Part #			SDR	fitting Ø	
63308U	10	350	5	½"	
63310U	10	250	5	¾"	
63312U	5	100	5	1"	
63314U	5	150	5	1-¼"	

Part #			SDR	fitting Ø	
63308SR	10	350	5	½"	
63310SR	10	250	5	¾"	
63312SR	5	100	5	1"	
63314SR	5	150	5	1-¼"	

UV RES



ELBOW 45°,
socket-welding

Part #			SDR	fitting Ø	
63508U	10	400	5	½"	
63510U	10	250	5	¾"	
63512U	5	150	5	1"	
63514U	5	150	5	1-¼"	
63516U	5	80	5	1-½"	
63518U	1	50	5	2"	
63520U	1	36	5	2-½"	
63522U	1	18	5	3"	
63524U	1	10	5	3-½"	
63526U	1	8	5	4"	

Part #			SDR	fitting Ø	
63508SR	10	400	5	½"	
63510SR	10	250	5	¾"	
63512SR	5	150	5	1"	
63514SR	5	150	5	1-¼"	
63516SR	5	80	5	1-½"	
63518SR	1	50	5	2"	
63520SR	1	36	5	2-½"	
63522SR	1	18	5	3"	
63524SR	1	10	5	3-½"	
63526SR	1	8	5	4"	

UV RES



ELBOW 45°,
butt-welding, long shank

Part #			SDR	fitting Ø	
63528UK	1	3	7.4	6"	
63530UK	1	2	7.4	8"	

63528U	1	3	11	6"	
63530U	1	2	11	8"	
63532U	1		11	10"	
63534U	1		11	12"	

Part #			SDR	fitting Ø	
63528SR	1	3	11	6"	
63530SR	1	2	11	8"	
63532SR	1		11	10"	
63534SR	1		11	12"	

UV RES



ELBOW 45°,
butt-welding, segmented fitting made of faser FIBER-T pipe

Part #		SDR	fitting Ø	
63532UCK	1	7.4	10"	
63534UCK	1	7.4	12"	



ELBOW 45°,
butt-welding, segmented fitting made of faser FIBER-COND pipe

Part #		SDR	fitting Ø	
63536UC	1	11	14"	
63538UC	1	11	16"	



ELBOW 45°,
butt-welding, long shank

Part #			SDR	fitting Ø	
63528UZ	1	3	17.6	6"	
63530UZ	1	2	17.6	8"	
63532UZ	1		17.6	10"	
63534UZ	1		17.6	12"	

Figure



Description

ELBOW 45°,
butt-welding, segmented fitting made of faser FIBER-LIGHT pipe

Part #		SDR	fitting Ø	
63536UCZ	1	17.6	14"	
63538UCZ	1	17.6	16"	
63540UCZ	1	17.6	18"	
63542UCZ	1	17.6	20"	
63544UCZ	1	17.6	22"	
63546UCZ	1	17.6	24"	



ELBOW 45° M/F,
socket-welding

Part #			SDR	fitting Ø	
63708U	10	400	5	½"	
63710U	10	300	5	¾"	
63712U	5	150	5	1"	

Part #			SDR	fitting Ø	
63708SR	10	400	5	½"	
63710SR	10	300	5	¾"	
63712SR	5	150	5	1"	

UV RES



TEE,
socket-welding

Part #			SDR	fitting Ø	
64108U	10	250	5	½"	
64110U	10	150	5	¾"	
64112U	5	80	5	1"	
64114U	5	100	5	1-¼"	
64116U	5	50	5	1-½"	
64118U	1	30	5	2"	
64120U	1	25	5	2-½"	
64122U	1	16	5	3"	
64124U	1	10	5	3-½"	
64126U	1	4	5	4"	

Part #			SDR	fitting Ø	
64108SR	10	250	5	½"	
64110SR	10	150	5	¾"	
64112SR	5	80	5	1"	
64114SR	5	100	5	1-¼"	
64116SR	5	50	5	1-½"	
64118SR	1	30	5	2"	
64120SR	1	25	5	2-½"	
64122SR	1	16	5	3"	
64124SR	1	10	5	3-½"	
64126SR	1	4	5	4"	

UV RES



UV RES

TEE,
butt-welding, long shank

Part #			SDR	fitting Ø	
64128U	1	2	11	6"	
64130U	1		11	8"	
64132U	1		11	10"	
64134U	1		11	12"	

Part #			SDR	fitting Ø	
64128SR	1	2	11	6"	
64130SR	1		11	8"	
64132SR	1		11	10"	
64134SR	1		11	12"	



TEE,
butt-welding, segmented fitting of faser FIBER-T pipe

Part #		SDR	fitting Ø	
64132UCK	1	7.4	10"	
64134UCK	1	7.4	12"	



TEE,
butt-welding, segmented fitting made of faser FIBER-COND pipe

Part #		SDR	fitting Ø	
64136UC	1	11	14"	
64138UC	1	11	16"	



TEE,
butt-welding, long shank

Part #			SDR	fitting Ø	
64128UZ	1	2	17.6	6"	
64130UZ	1		17.6	8"	
64132UZ	1		17.6	10"	
64134UZ	1		17.6	12"	



TEE,
butt-welding, segmented fitting made of faser FIBER-LIGHT pipe

Part #		SDR	fitting Ø	
64136UCZ	1	17.6	14"	
64138UCZ	1	17.6	16"	
64140UCZ	1	17.6	18"	
64142UCZ	1	17.6	20"	
64144UCZ	1	17.6	22"	
64146UCZ	1	17.6	24"	

Figure



Description

REDUCED TEE,
socket-welding

Part #			SDR	fitting Ø (through-through-branch)	
64218U	10	150	5	½" - ½" - ¾"	
64220U	10	150	5	½" - ¾" - ½"	
64222U	10	150	5	¾" - ¾" - ½"	
64232U	5	100	5	¾" - 1" - ¾"	
64234U	5	100	5	1" - 1" - ½"	
64240U	5	100	5	1" - 1" - ¾"	
64242U	5	120	5	1-¼" - 1-¼" - ½"	
64244U	5	120	5	1-¼" - 1-¼" - ¾"	
64245U	5	100	5	1" - 1-¼" - 1"	
64246U	5	100	5	1-¼" - 1-¼" - 1"	
64247U	5	60	5	1-½" - 1-½" - ½"	
64248U	5	60	5	1-½" - ¾" - 1-½"	
64250U	5	60	5	1-½" - 1-½" - 1"	
64251U	5	60	5	1-½" - 1-½" - 1-¼"	
64252U	1	35	5	2" - 2" - ½"	
64254U	1	35	5	2" - 2" - ¾"	
64256U	1	35	5	2" - 2" - 1"	
64258U	1	35	5	2" - 2" 1-¼"	
64260U	1	30	5	2" - 2" - 1-½"	
64261U	1	25	5	2-½" - 2-½" - ½"	
64262U	1	25	5	2-½" - 2-½" - ¾"	
64264U	1	25	5	2-½" - 2-½" - 1"	
64266U	1	25	5	2-½" - 2-½" - 1-¼"	
64268U	1	25	5	2-½" - 2-½" - 1-½"	
64270U	1	16	5	2-½" 2-½" - 2"	
64280U	1	16	5	3" - 3" - 2-½"	
64282U	1	16	5	3" - 3" - 2"	
64284U	1	16	5	3" - 3" - 2-½"	
64286U	1	10	5	3-½" - 3-½" - 2"	
64288U	1	10	5	3-½" - 3-½" - 2-½"	
64290U	1	10	5	3-½" - 3-½" - 3"	
64294U	1	5	5	4" - 4" - 3"	
64296U	1	5	5	4" - 4" - 3-½"	

UV RES

Part #			SDR	fitting Ø (through-through-branch)	
64220SR	10	150	5	½" - ¾" - ½"	
64222SR	10	150	5	¾" - ¾" - ½"	
64232SR	5	100	5	¾" - 1" - ¾"	
64234SR	5	100	5	1" - 1" - ½"	
64240SR	5	100	5	1" - 1" - ¾"	
64242SR	5	120	5	1-¼" - 1-¼" - ½"	
64244SR	5	120	5	1-¼" - 1-¼" - ¾"	
64245SR	5	100	5	1" - 1-¼" - 1"	
64246SR	5	100	5	1-¼" - 1-¼" - 1"	
64247SR	5	60	5	1-½" - 1-½" - ½"	
64248SR	5	60	5	1-½" - ¾" - 1-½"	
64250SR	5	60	5	1-½" - 1-½" - 1"	
64251SR	5	60	5	1-½" - 1-½" - 1-¼"	
64252SR	1	35	5	2" - 2" - ½"	
64254SR	1	35	5	2" - 2" - ¾"	
64256SR	1	35	5	2" - 2" - 1"	
64258SR	1	35	5	2" - 2" 1-¼"	
64260SR	1	30	5	2" - 2" - 1-½"	
64261SR	1	25	5	2-½" - 2-½" - ½"	
64262SR	1	25	5	2-½" - 2-½" - ¾"	
64264SR	1	25	5	2-½" - 2-½" - 1"	
64266SR	1	25	5	2-½" - 2-½" - 1-¼"	
64268SR	1	25	5	2-½" - 2-½" - 1-½"	
64270SR	1	16	5	2-½" 2-½" - 2"	
64280SR	1	16	5	3" - 3" - 2-½"	
64282SR	1	16	5	3" - 3" - 2"	
64284SR	1	16	5	3" - 3" - 2-½"	
64286SR	1	10	5	3-½" - 3-½" - 2"	
64288SR	1	10	5	3-½" - 3-½" - 2-½"	
64290SR	1	10	5	3-½" - 3-½" - 3"	
64294SR	1	5	5	4" - 4" - 3"	
64296SR	1	5	5	4" - 4" - 3-½"	

REDUCED TEE, butt-welding, long shank

Part #			SDR	fitting Ø (through-through-branch)	
64298UK	1	2	7.4	6" - 6" - 3"	
64299UK	1	2	7.4	6" - 6" - 3-½"	
64300UK	1	2	7.4	6" - 6" - 4"	
64302UK	1		7.4	8" - 8" - 6"	
64298U	1	2	11	6" - 3" - 6"	
64299U	1	2	11	6" - 6" - 3-½"	
64300U	1	2	11	6" - 6" - 4"	
64302U	1		11	8" - 8" - 6"	
64306U	1		11	10" - 10" - 6"	
64307U	1		11	10" - 10" - 8"	
643094U	1		11	12" - 12" 8"	
643096U	1		11	12" - 12" - 10"	

Figure

UV RES

Description

Part #			SDR	fittingØ(through-through-branch)	
64298SR	1	2	11	6" - 3" - 6"	
64299SR	1	2	11	6" - 6" - 3-½"	
64300SR	1	2	11	6" - 6" - 4"	
64302SR	1		11	8" - 8" - 6"	
64306SR	1		11	10" - 10" - 6"	
64307SR	1		11	10" - 10" - 8"	
643094SR	1		11	12" - 12" - 8"	
643096SR	1		11	12" - 12" - 10"	

**REDUCED TEE,**

butt-welding, segmented fitting made of faser FIBER-COND pipe

Part #		SDR	fittingØ(through-through-branch)	
64307UCK	1	7.4	10"-10"-8"	
643096UCK	1	7.4	12"-12"-10"	

**REDUCED TEE,**

butt-welding, segmented fitting made of faser FIBER-COND pipe

Part #		SDR	fittingØ(through-through-branch)	
643122UC	1	11	14" - 14" - 10"	
643124UC	1	11	14" - 14" - 12"	
643152UC	1	11	16" - 16" - 12"	
643154UC	1	11	16" - 16" - 14"	

**REDUCED TEE,**

butt-welding, long shank

Part #			SDR	fittingØ(through-through-branch)	
64300UZ	1	2	17.6	6" - 6" - 4"	
64302UZ	1		17.6	8" - 6" - 8"	
64306UZ	1		17.6	10" - 10" - 6"	
64307UZ	1		17.6	10" - 10" - 8"	
643094UZ	1		17.6	12" - 12" - 8"	
643096UZ	1		17.6	12" - 12" - 8"	

**REDUCED TEE,**

butt-welding, segmented fitting made of faser FIBER-LIGHT pipe

Part #		SDR	fittingØ(through-through-branch)	
643124UCZ	1	17.6	14" - 14" - 12"	
643154UCZ	1	17.6	16" - 16" - 14"	
643182UCZ	1	17.6	18" - 18" - 12"	
643184UCZ	1	17.6	18" - 18" - 14"	
643186UCZ	1	17.6	18" - 18" - 16"	
643218UCZ	1	17.6	20" - 20" - 16"	
643220UCZ	1	17.6	20" - 20" - 18"	
643254UCZ	1	17.6	22" - 22" - 18"	
643256UCZ	1	17.6	22" - 22" - 20"	
643292UCZ	1	17.6	24" - 24" - 20"	
643294UCZ	1	17.6	24" - 24" - 22"	



UV RES

CROSS, socket-welding

Part #			SDR	fitting Ø	
64308U	10	400	5	½"	
64310U	10	300	5	¾"	
64312U	5	150	5	1"	
64314U	5	80	5	1-¼"	

Part #			SDR	fitting Ø	
64308SR	10	400	5	½"	
64310SR	10	300	5	¾"	
64312SR	5	150	5	1"	
64314SR	5	80	5	1-¼"	

64322SRC	1		11	3"	
64326SRC	1		11	4"	
64328SRC	1		11	6"	
64330SRC	1		11	8"	
64332SRC	1		11	10"	
64334SRC	1		11	12"	



COVER CAP, socket-welding

Part #			SDR	fitting Ø	
65008U	10	500	5	½"	
65010U	10	450	5	¾"	
65012U	5	250	5	1"	
65014U	5	350	5	1-¼"	
65016U	5	200	5	1-½"	
65018U	1	80	5	2"	
65020U	1	80	5	2-½"	
65022U	1	50	5	3"	
65024U	1	24	5	3-½"	
65026U	1	12	5	4"	

Part #			SDR	fitting Ø	
65008SR	10	500	5	½"	
65010SR	10	450	5	¾"	
65012SR	5	250	5	1"	
65014SR	5	350	5	1-¼"	
65016SR	5	200	5	1-½"	
65018SR	1	80	5	2"	
65020SR	1	80	5	2-½"	
65022SR	1	50	5	3"	
65024SR	1	24	5	3-½"	
65026SR	1	12	5	4"	

UV RES

Figure

Description



COVER CAP,
butt-welding, short shank

Part #			SDR	fitting Ø	
65028UK	1	4	7.4	6"	
65030UK	1	2	7.4	8"	
65032UK	1	1	7.4	10"	
65034UK	1	1	7.4	12"	



COVER CAP,
butt-welding, long shank

Part #			SDR	fitting Ø	
65028U	1	4	11	6"	
65030U	1	2	11	8"	
65032U	1		11	10"	
65034U	1		11	12"	

Part #			SDR	fitting Ø	
65028SR	1	4	11	6"	
65030SR	1	2	11	8"	
65032SR	1		11	10"	
65034SR	1		11	12"	

UV RES



COVER CAP,
butt-welding, short shank

Part #			SDR	fitting Ø	
65036U	1		11	14"	
65038U	1		11	16"	



COVER CAP,
butt-welding, long shank

Part #			SDR	fitting Ø	
65028UZ	1		17.6	6"	
65030UZ	1		17.6	8"	
65032UZ	1		17.6	10"	
65034UZ	1		17.6	12"	



COVER CAP,
butt-welding, short shank

Part #			SDR	fitting Ø	
65036UZ	1		17.6	14"	
65038UZ	1		17.6	16"	
65040UZ	1		17.6	18"	
65042UZ	1		17.6	20"	
65044UZ	1		17.6	22"	
65046UZ	1		17.6	24"	



ØA:
output diameter

A:
suitable welding die saddle

B:
suitable miller

SADDLE FUSION OUTLET,
socket-welding

Part #		Ø A	for pipe	A	B	
650472U	10	1/2"	1-1/4"	500316	50348-50348A-50378	
650474U	10	3/4"	1-1/4"	500316	50348-50348A-50378	
650478U	10	1/2"	1-1/2"	500320	50348-50348A-50378	
650480U	10	3/4"	1-1/2"	500320	50348-50348A-50378	
650498U	10	1/2"	2"	500340	50348-50348A-50378	
			2-1/2"	500348	50348-50348A-50378	
650500U	10	3/4"	2"	500340	50348-50348A-50378	
			2-1/2"	500348	50348-50348A-50378	
650502U	5	1"	2"	500342	50352-50382	
			2-1/2"	500360	50352-50382	
650556U	10	1/2"	3"	500386	50348-50348A-50378	
			3-1/2"	500428	50348-50348A-50378	
			4"	500468	50348-50348A-50378	
650558U	10	3/4"	3"	500386	50348-50348A-50378	
			3-1/2"	500428	50348-50348A-50378	
			4"	500468	50348-50348A-50378	
650560U	5	1"	3"	500400	50352-50382	
			3-1/2"	500430	50352-50382	
			4"	500470	50352-50382	
650580U	5	1-1/4"	3"	500420	50354-50384	
650582U	5	1-1/2"	3"	500422	50356-50386	
650600U	5	1-1/4"	3-1/2"	500440	50354-50384	
650620U	5	1-1/2"	3-1/2"	500460	50356-50386	
650622U	5	2"	3-1/2"	500462	50358-50388	
650638U	5	1-1/4"	4"	500472	50354-50384	
650640U	5	1-1/2"	4"	500480	50356-50386	
650660U	1	2"	4"	500500	50358-50388	
650672U	10	1/2"	6"	500508	50348-50348A-50378	
			8"	500586	50348-50348A-50378	
650674U	10	3/4"	6"	500508	50348-50348A-50378	
			8"	500586	50348-50348A-50378	
650676U	5	1"	6"	500510	50352-50382	
			8"	500588	50352-50382	
650678U	5	1-1/4"	6"	500512	50354-50384	
			8"	500590	50354-50384	
650680U	5	1-1/2"	6"	500520	50356-50386	
650700U	1	2"	6"	500540	50358-50388	
650720U	1	2-1/2"	6"	500560	50360-50390	
650740U	1	3"	6"	500580	50362-50392	
650760U	5	1-1/2"	6"	500600	50356-50386	
650780U	1	2"	8"	500620	50358-50388	
650800U	1	2-1/2"	8"	500640	50360-50390	
650820U	1	3"	8"	500660	50362-50392	
650840U	1	3-1/2"	8"	500680	50364-50394	
650860U	1	4"	8"	500700	50366-50396	
650872U	10	1/2"	10"	500702	50348-50348A-50378	
			12"	500822	50348-50348A-50378	
650874U	10	3/4"	10"	500702	50348-50348A-50378	
			12"	500822	50348-50348A-50378	
650876U	5	1"	10"	500704	50352-50382	
			12"	500824	50352-50382	
650880U	5	1-1/2"	10"	500720	50356-50386	
650900U	1	2"	10"	500740	50358-50388	
650920U	1	2-1/2"	10"	500760	50360-50390	

Figure



ØA:

output diameter

A:

suitable welding die saddle

B:

suitable miller

Description

SADDLE FUSION OUTLET,
socket-welding

Part #		Ø A	for pipe	A	B	
650940U	1	3"	10"	500780	50362-50392	
650960U	1	3-½"	10"	500800	50364-50394	
650980U	1	4"	10"	500820	50366-50396	
650994U	5	1-½"	12"	500828	50356-50386	
650996U	1	2"	12"	500830	50358-50388	
650998U	1	2-½"	12"	500832	50360-50390	
651000U	1	3"	12"	500834	50362-50392	
651002U	1	3-½"	12"	500836	50364-50394	
651004U	1	4"	12"	500838	50366-50396	
651012U	1	½"	14"	500842	50348-50348A-50378	
			16"	500842	50348-50348A-50378	
			18"	500842	50378	
			20"	500842	50378	
			22"	500842	50378	
			24"	500842	50378	
651014U	1	¾"	14"	500842	50348-50348A-50378	
			16"	500842	50348-50348A-50378	
			18"	500842	50378	
			20"	500842	50378	
			22"	500842	50378	
			24"	500842	50378	
651016U	1	1"	14"	500844	50352-50382	
			16"	500844	50352-50382	
			18"	500844	50382	
			20"	500844	50382	
			22"	500844	50382	
			24"	500844	50382	
651018U	1	1-¼"	14"	500846	50354-50384	
			16"	500846	50354-50384	
			18"	500846	50384	
			20"	500846	50384	
			22"	500846	50384	
			24"	500846	50384	
651020U	1	1-½"	14"	500848	50356-50386	
			16"	500848	50356-50386	
			18"	500860	50386	
651021U	1	1-½"	20"	500874	50386	
			22"	500874	50386	
			24"	500874	50386	
651022U	1	2"	14"	500850	50358-50388	
			16"	500850	50358-50388	
			18"	500864	50388	
651023U	1	2"	20"	500876	50388	
			22"	500876	50388	
			24"	500876	50388	
651024U	1	2-½"	14"	500852	50360-50390	
651026U	1	3"	14"	500854	50362-50392	
651028U	1	3-½"	14"	500855	50364-50394	
651030U	1	4"	14"	500857	50366-50396	
651040U	1	2-½"	16"	500852	50360-50390	
			18"	500866	50390	
			20"	500878	50390	
			22"	500886	50390	
651041U	1	2-½"	24"	500894	50390	



ØA:
output diameter

A:
suitable welding die saddle

B:
suitable miller

SADDLE FUSION OUTLET, socket-welding

Part #		Ø A	for pipe	A	B
651042U	1	3"	16" 18"	500854 500868	50362-50392 50392
651043U	1	3"	20" 22" 24"	500880 500888 500896	20392 50392 50392
651044U	1	3-½"	16" 18"	500856 500870	50364-50394 50394
651045U	1	3-½"	20" 22"	500882 500890	50394 50394
651047U	1	3-½"	24"	500898	50394
651046U	1	4"	16"	500858	50366-50396
651048U	1	4"	18" 20"	500872 500884	50396 50396
651049U	1	4"	22" 24"	500892 500900	50396 50396

Part #		Ø A	for pipe	A	B
650472SR	10	½"	1-¼"	500316	50348-50348A-50378
650474SR	10	¾"	1-¼"	500316	50348-50348A-50378
650478SR	10	½"	1-½"	500320	50348-50348A-50378
650480SR	10	¾"	1-½"	500320	50348-50348A-50378
650498SR	10	1/2"	2" 2-½"	500340 500348	50348-50348A-50378 50348-50348A-50378
650500SR	10	¾"	2" 2-½"	500340 500348	50348-50348A-50378 50348-50348A-50378
650502SR	5	1"	2" 2-½"	500342 500360	50352-50382 50352-50382
650556SR	10	½"	3" 3-½" 4"	500386 500428 500468	50348-50348A-50378 50348-50348A-50378 50348-50348A-50378
650558SR	10	¾"	3" 3-½" 4"	500386 500428 500468	50348-50348A-50378 50348-50348A-50378 50348-50348A-50378
650560SR	5	1"	3" 3-½" 4"	500400 500430 500470	50352-50382 50352-50382 50352-50382
650580SR	5	1-¼"	3"	500420	50354-50384
650582SR	5	1-½"	3"	500422	50356-50386
650600SR	5	1-¼"	3-½"	500440	50354-50384
650620SR	5	1-½"	3-½"	500460	50356-50386
650622SR	5	2"	3-½"	500462	50358-50388
650638SR	5	1-¼"	4"	500472	50354-50384
650640SR	5	1-½"	4"	500480	50356-50386
650660SR	1	2"	4"	500500	50358-50388
650672SR	10	½"	6" 8"	500508 500586	50348-50348A-50378 50348-50348A-50378
650674SR	10	¾"	6" 8"	500508 500586	50348-50348A-50378 50348-50348A-50378
650676SR	5	1"	6" 8"	500510 500588	50352-50382 50352-50382
650678SR	5	1-¼"	6" 8"	500512 500590	50354-50384 50354-50384
650680SR	5	1-½"	6"	500520	50356-50386

UV RES

Figure

UV RES

Part # 		Ø A	for pipe	A	B	
650700SR	1	2"	6"	500540	50358-50388	
650720SR	1	2-½"	6"	500560	50360-50390	
650740SR	1	3"	6"	500580	50362-50392	
650760SR	5	1-½"	6"	500600	50356-50386	
650780SR	1	2"	8"	500620	50358-50388	
650800SR	1	2-½"	8"	500640	50360-50390	
650820SR	1	3"	8"	500660	50362-50392	
650840SR	1	3-½"	8"	500680	50364-50394	
650860SR	1	4"	8"	500700	50366-50396	
650872SR	10	½"	10"	500702	50348-50348A-50378	
			12"	500822	50348-50348A-50378	
650874SR	10	¾"	10"	500702	50348-50348A-50378	
			12"	500822	50348-50348A-50378	
650876SR	5	1"	10"	500704	50352-50382	
			12"	500824	50352-50382	
650878SR	5	1-¼"	10"	500706	50354	
			12"	500826	50354	
650880SR	5	1-½"	10"	500720	50356-50386	
650900SR	1	2"	10"	500740	50358-50388	
650920SR	1	2-½"	10"	500760	50360-50390	
650940SR	1	3"	10"	500780	50362-50392	
650960SR	1	3-½"	10"	500800	50364-50394	
650980SR	1	4"	10"	500820	50366-50396	
650994SR	5	1-½"	12"	500828	50356-50386	
650996SR	1	2"	12"	500830	50358-50388	
650998SR	1	2-½"	12"	500832	50360-50390	
651000SR	1	3"	12"	500834	50362-50392	
651004SR	1	4"	12"	500838	50366-50396	
651012SR	1	½"	14"	500842	50348-50348A-50378	
			16"	500842	50348-50348A-50378	
			18"	500842	50378	
			20"	500842	50378	
			22"	500842	50378	
			24"	500842	50378	
651014SR	1	¾"	14"	500842	50348-50348A-50378	
			16"	500842	50348-50348A-50378	
			18"	500842	50378	
			20"	500842	50378	
			22"	500842	50378	
			24"	500842	50378	
651016SR	1	1"	14"	500844	50352-50382	
			16"	500844	50352-50382	
			18"	500844	50382	
			20"	500844	50382	
			22"	500844	50382	
			24"	500844	50382	
651018SR	1	1-¼"	14"	500846	50354-50384	
			16"	500846	50354-50384	
			18"	500846	50384	
			20"	500846	50384	
			22"	500846	50384	
			24"	500846	50384	
651020SR	1	1-½"	14"	500848	50356-50386	
			16"	500848	50356-50386	
			18"	500860	50386	

UV RES

Part #		Ø A	for pipe	A	B
651022SR	1	2"	14"	500850	50358-50388
			16"	500850	50358-50388
			18"	500864	50388
651024SR	1	2-½"	14" 16"	500852	50360
651026SR	1	3"	14"	500854	50362-50392
651030SR	1	4"	14"	500857	50366-50396
651040SR	1	2-½"	16"	500852	50360-50390
651042SR	1	3"	16"	500854	50362-50392
			18"	500868	50392
651044SR	1	3-½"	16"	500856	50364-50394
			18"	500870	50394
651046SR	1	4"	16"	500858	50366-50396



ØA:
output diameter

A:
suitable welding die saddle

B:
suitable miller

FEMALE THREADED SADDLE FUSION OUTLET,

socket-welding, with hexagonal seat, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			Ø A	for pipe	A	B
652000U	5	150	½"	1-¼"	500316	50348-50348A-50378
652002U	5	150	¾"	1-¼"	500316	50348-50348A-50378
652004U	5	150	½"	1-½"	500320	50348-50348A-50378
652006U	5	150	¾"	1-½"	500320	50348-50348A-50378
652008U	5	150	½"	2"	500340	50348-50348A-50378
				2-½"	500348	50348-50348A-50378
652010U	5	150	¾"	2"	500340	50348-50348A-50378
				2-½"	500348	50348-50348A-50378
652013U	5	150	½"	3"	500386	50348-50348A-50378
				3-½"	500428	50348-50348A-50378
				4"	500468	50348-50348A-50378
652015U	5	150	¾"	3"	500386	50348-50348A-50378
				3-½"	500428	50348-50348A-50378
				4"	500468	50348-50348A-50378
652036U	10	150	½"	6"	500508	50348-50348A-50378
				8"	500586	50348-50348A-50378
652038U	5	150	¾"	6"	500508	50348-50348A-50378
				8"	500586	50348-50348A-50378
652064U	5	150	½"	10"	500702	50348-50348A-50378
				12"	500822	50348-50348A-50378
652066U	5	150	¾"	10"	500702	50348-50348A-50378
				12"	500822	50348-50348A-50378
652096U	5	150	½"	14"	500842	50348-50348A-50378
				16"	500842	50348-50348A-50378
				18"	500842	50378
				20"	500842	50378
				22"	500842	50378
				24"	500842	50378
652098U	5	150	¾"	14"	500842	50348-50348A-50378
				16"	500842	50348-50348A-50378
				18"	500842	50378
				20"	500842	50378
				22"	500842	50378
				24"	500842	50378

Figure

UV RES

Description

Part #			Ø A	for pipe	A	B	
652000SR	5	150	1/2"	1-1/4"	500316	50348-50348A-50378	
652002SR	5	150	3/4"	1-1/4"	500316	50348-50348A-50378	
652004SR	5	150	1/2"	1-1/2"	500320	50348-50348A-50378	
652006SR	5	150	3/4"	1-1/2"	500320	50348-50348A-50378	
652008SR	5	150	1/2"	2"	500340	50348-50348A-50378	
				2-1/2"	500348	50348-50348A-50378	
652010SR	5	150	3/4"	2"	500340	50348-50348A-50378	
				2-1/2"	500348	50348-50348A-50378	
652013SR	5	150	1/2"	3"	500386	50348-50348A-50378	
				3-1/2"	500428	50348-50348A-50378	
				4"	500468	50348-50348A-50378	
652015SR	5	150	3/4"	3"	500386	50348-50348A-50378	
				3-1/2"	500428	50348-50348A-50378	
				4"	500468	50348-50348A-50378	
652036SR	10	150	1/2"	6"	500508	50348-50348A-50378	
				8"	500586	50348-50348A-50378	
652038SR	5	150	3/4"	6"	500508	50348-50348A-50378	
				8"	500586	50348-50348A-50378	
652064SR	5	150	1/2"	10"	500702	50348-50348A-50378	
				12"	500822	50348-50348A-50378	
652066SR	5	150	3/4"	10"	500702	50348-50348A-50378	
				12"	500822	50348-50348A-50378	
652096SR	5	150	1/2"	14"	500842	50348-50348A-50378	
				16"	500842	50348-50348A-50378	
				18"	500842	50378	
				20"	500842	50378	
				22"	500842	50378	
				24"	500842	50378	
652098SR	5	150	3/4"	14"	500842	50348-50348A-50378	
				16"	500842	50348-50348A-50378	
				18"	500842	50378	
				20"	500842	50378	
				22"	500842	50378	
				24"	500842	50378	



ØA:
output diameter

A:
suitable welding die saddle

B:
suitable miller

MALE THREADED SADDLE FUSION OUTLET,

socket-welding, with hexagonal seat, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			Ø A	for pipe	A	B	
652300U	5	150	1/2"	1-1/4"	500316	50348-50348A-50378	
652302U	5	150	3/4"	1-1/4"	500316	50348-50348A-50378	
652304U	5	150	1/2"	1-1/2"	500320	50348-50348A-50378	
652306U	5	150	3/4"	1-1/2"	500320	50348-50348A-50378	
652308	5	150	1/2"	2"	500340	50348-50348A-50378	
				2-1/2"	500348	50348-50348A-50378	
652310U	5	150	3/4"	2"	500340	50348-50348A-50378	
				2-1/2"	500348	50348-50348A-50378	
652314U	5	150	1/2"	3"	500386	50348-50348A-50378	
				3-1/2"	500428	50348-50348A-50378	
				4"	500468	50348-50348A-50378	
652316U	5	150	3/4"	3"	500386	50348-50348A-50378	
				3-1/2"	500428	50348-50348A-50378	
				4"	500468	50348-50348A-50378	
652336U	5	150	1/2"	6"	500508	50348-50348A-50378	
				8"	500586	50348-50348A-50378	

UV RES

Part #			Ø A	for pipe	A	B	
652338U	5	150	¾"	6"	500508	50348-50348A-50378	
				8"	500586	50348-50348A-50378	
652364U	5	150	½"	10"	500702	50348-50348A-50378	
				12"	500822	50348-50348A-50378	
652366U	5	150	¾"	10"	500702	50348-50348A-50378	
				12"	500822	50348-50348A-50378	
652396U	5	150	¾"	14"	500842	50348-50348A-50378	
				16"	500842	50348-50348A-50378	
				18"	500842	50378	
				20"	500842	50378	
				22"	500842	50378	
				24"	500842	50378	
				14"	500842	50348-50348A-50378	
652398U	5	150	½"	16"	500842	50348-50348A-50378	
				18"	500842	50378	
				20"	500842	50378	
				22"	500842	50378	
				24"	500842	50378	
				14"	500842	50348-50348A-50378	
Part #			Ø A	for pipe	A	B	
652300SR	5	150	½"	1-¼"	500316	50348-50348A-50378	
652302SR	5	150	¾"	1-¼"	500316	50348-50348A-50378	
652304SR	5	150	½"	1-½"	500320	50348-50348A-50378	
652306SR	5	150	¾"	1-½"	500320	50348-50348A-50378	
652308SR	5	150	½"	2"	500340	50348-50348A-50378	
				2-½"	500348	50348-50348A-50378	
652310SR	5	150	¾"	2"	500340	50348-50348A-50378	
				2-½"	500348	50348-50348A-50378	
				3"	500386	50348-50348A-50378	
652314SR	5	150	½"	3-½"	500428	50348-50348A-50378	
				4"	500468	50348-50348A-50378	
652316SR	5	150	¾"	3"	500386	50348-50348A-50378	
				3-½"	500428	50348-50348A-50378	
				4"	500468	50348-50348A-50378	
652336SR	5	150	½"	6"	500508	50348-50348A-50378	
				8"	500586	50348-50348A-50378	
652338SR	5	150	¾"	6"	500508	50348-50348A-50378	
				8"	500586	50348-50348A-50378	
652364SR	5	150	½"	10"	500702	50348-50348A-50378	
				12"	500822	50348-50348A-50378	
652366SR	5	150	¾"	10"	500702	50348-50348A-50378	
				12"	500822	50348-50348A-50378	
652396SR	5	150	¾"	14"	500842	50348-50348A-50378	
				16"	500842	50348-50348A-50378	
				18"	500842	50378	
				20"	500842	50378	
				22"	500842	50378	
				24"	500842	50378	
				14"	500842	50348-50348A-50378	
652398SR	5	150	½"	16"	500842	50348-50348A-50378	
				18"	500842	50378	
				20"	500842	50378	
				22"	500842	50378	
				24"	500842	50378	
				14"	500842	50348-50348A-50378	

Figure



ØA*:
output diameter
NOTE: uses standard dies

B*:
suitable miller

UV RES

Description

DIRECT FUSION JOINT,
socket-welding; C511, lead-free, complies with NSF372

Part #			Ø A*	for pipe	B*
65132U	10	1000	½"	1-½" ~ 16"	50346-50346A
65134U	10	500	¾"	2" ~ 16" 2" ~ 24"	50348-50348A 50378
65136U	5	400	1"	2-½" ~ 16" 2-½" ~ 24"	50352 50382
65138U	5	200	1-¼"	3" ~ 16" 3" ~ 24"	50354 50384

Part #			Ø A*	for pipe	B*
65132SR	10	1000	½"	1-½" ~ 16"	50346-50346A
65134SR	10	500	¾"	2" ~ 16" 2" ~ 24"	50348-50348A 50378
65136SR	5	400	1"	2-½" ~ 16" 2-½" ~ 24"	50352 50382
65138SR	5	200	1-¼"	3" ~ 16" 3" ~ 24"	50354 50384



ØA*:
output diameter
NOTE: uses standard dies

B*:
suitable miller

UV RES

THREADED DIRECT FUSION JOINT F,
socket-welding, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			Ø A*	for pipe	B*
65152U	5	200	F ½"	1-½" ~ 16"	50346-50346A
65154U	5	150	F ¾"	1-½" ~ 16" 1-½" ~ 24"	50348-50348A 50378

Part #			Ø A*	for pipe	B*
65152SR	5	200	F ½"	1-½" ~ 16"	50346-50346A
65154SR	5	150	F ¾"	1-½" ~ 16" 1-½" ~ 24"	50348-50348A 50378



ØA*:
output diameter
NOTE: uses standard dies

B*:
suitable miller

UV RES

FUSIO-TECHNIK DIRECT FUSION JOINT WITH SAFETY DERIVATION
C511, lead-free, complies with NSF372

Part #			Ø A*	for pipe	B
65170U	5	150	sm ½"	1-½" ~ 16"	50346-50346A
65172U	5		sm 5/8"	1-½" ~ 16"	50346-50346A
65174U	5		sm 7/8"	2" ~ 16" 2" ~ 24"	50348-50348A 50378

Part #			Ø A*	for pipe	B
65170SR	5	150	sm ½"	1-½" ~ 16"	50346-50346A
65172SR	5		sm 5/8"	1-½" ~ 16"	50346-50346A
65174SR	5		sm 7/8"	2" ~ 16" 2" ~ 24"	50348-50348A 50378

**TRANSITION FITTING FROM COPPER TO PP-R F**

socket-welding,

Part #		SDR	fitting Ø	
65100U	5	5	½"	
65102U	5	5	¾"	
65106U	5	5	1"	

**TRANSITION FITTING FROM P-EX TO PP-R F**

socket-welding; crimp ASTM-1807 standard, C511, lead-free, complies with NSF372

Part #		SDR	fitting Ø	
65110U	5	5	½"	
65114U	5	5	¾"	
65116U	5	5	1"	

**TRANSITION FITTING FROM P-EX TO PP-R F**

socket-welding; expand ASTM-F1960 standard, C511, lead-free, complies with NSF372

Part #		SDR	fitting Ø	
65120U	5	5	½"	
65124U	5	5	¾"	
65126U	5	5	1"	

**PP-R GROOVED TRANSITION**

socket-welding,

Part #			SDR	fitting Ø	
652014U	5	30	5	1-¼"	
652016U	5	20	5	1-½"	
652018U	1	70	1	2"	

**COLLAR TO WELD,**

socket-welding, with o-ring, for flanges and PP valve for series 40358

Part #			SDR	fitting Ø	Ext	
65208U	10	1000	7.4	½"	1-1/16"	
65210U	10	400	7.4	¾"	1-5/16"	
65212U	10	300	7.4	1"	1-5/8"	
65214U	5	200	7.4	1-¼"	1-15/16"	
65216U	5	100	7.4	1-½"	2-3/8"	
65218U	1	50	7.4	2"	3-1/16"	
65220U	1	40	7.4	2-½"	3-5/8"	
65222U	1	25	7.4	3"	4-¼"	
65224U	1	16	7.4	3-½"	5-¼"	
65226U	1	12	7.4	4"	6-1/8"	

Figure

UV RES

Description

Part #			SDR	fitting Ø	Ext	
65208SR	10	1000	7.4	½"	1-1/16"	
65210SR	10	400	7.4	¾"	1-5/16"	
65212SR	10	300	7.4	1"	1-5/8"	
65214SR	5	200	7.4	1-¼"	1-15/16"	
65216SR	5	100	7.4	1-½"	2-3/8"	
65218SR	1	50	7.4	2"	3-1/16"	
65220SR	1	40	7.4	2-½"	3-5/8"	
65222SR	1	25	7.4	3"	4-¼"	
65224SR	1	16	7.4	3-½"	5-¼"	
65226SR	1	12	7.4	4"	6-1/8"	

**COLLAR TO WELD,**
butt-welding, long shank

Part #			SDR	fitting Ø	Ext	
65228UK	1	4	7.4	6"	6 13/16"	
65230UK	1	2	7.4	8"	9 1/8"	
65228U	1	4	11	6"	6 13/16"	
65230U	1	2	11	8"	9 1/8"	
65232U	1		11	10"	11 ¼"	
65234U	1		11	12"	13 3/16"	

UV RES

Part #			SDR	fitting Ø	Ext	
65228U	1	4	11	6"	6 13/16"	
65230U	1	2	11	8"	9 1/8"	
65232U	1		11	10"	11 ¼"	
65234U	1		11	12"	13 3/16"	

**COLLAR TO WELD,**
butt-welding, short shank

Part #		SDR	fitting Ø	Ext	
65236U	1	11	14"	14-11/16"	
65238U	1	11	16"	16-13/16"	

**COLLAR TO WELD,**
butt-welding, long shank

Part #			SDR	fitting Ø	Ext	
65228UZ	1	4	17.6	6"	6-13/16"	
65230UZ	1	2	17.6	8"	9-1/8"	
65232UZ	1		17.6	10"	11-¼"	
65234UZ	1		17.6	12"	13-3/16"	


COLLAR TO WELD,
 butt-welding, short shank

Part #		SDR	fitting Ø	Ext
65236UZ	1	17.6	14"	14 ^{-11/16"}
65238UZ	1	17.6	16"	16 ^{-13/16"}
65240UZ	1	17.6	18"	
65242UZ	1	17.6	20"	
65244UZ	1	17.6	22"	
65246UZ	1	17.6	24"	


PUMP FLANGE,
 socket-welding, with o-ring, for flanges and PP valve series 40358

Part #			fitting Ø
PF-.75IN	1		¾"
PF-1.00IN	1		1"
PF-1.25IN	1		1-¼"


FLANGES,
 in compliance with ANSI 150

Part #			fitting Ø	PN	ND	Int	Ext	*
65266U	1	30	½"	10/16	15	28"	95 ^{-5/16"}	4
65268U	1	25	¾"	10/16	20	34"	101 ^{-5/8"}	4
65270U	1	25	1"	10	25	42"	114 ^{-5/16"}	4
65272U	1	20	1-¼"	10	32	51 ^{-1/8"}	130	4
65274U	1	20	1-½"	10/16	40	62"	133 ^{-3/8"}	4
65276U	1	15	2"	10/16	50	78"	165 ^{-1/8"}	4
65278U	1	10	2-½"	10/16	65	92"	184 ^{-3/16"}	4
65280U	1	8	3"	10/16	80	109"	194 ^{-11/16"}	4
65282U	1	4	3-½"	10/16	100	132"	237	8
65284U	1	4	4"	10/16	125	148 ^{-5/8"}	237	8
65286U	1	3	6"	10/16	150	178 ^{-1/8"}	296 ^{-5/16"}	8
65290U	1	2	8"	10	200	238"	355 ^{-5/8"}	8
65292U	1		10"	10	250	288"	412 ^{-13/16"}	12
65294U	1		12"	10	300	338 ^{-1/8"}	498 ^{-1/2"}	12
65296U	1		14"	10	350	375 ^{-7/8"}	533 ^{-3/8"}	12
65298U	1		16"	10	400	430"	601 ^{-1/8"}	16
65300U	1		18"	10	450	475"	635"	16
65302U	1		20"	10	500	533"	700"	20
65304U	1		22"	10	560	618"	815"	20
65306U	1		24"	10	600	645"	815"	20

NB For the DN correspondence and other specialistic information, please consult the technical data sheets www.aquatechnik.it

no. holes


SWAN NECK faser FIBER-T,
 socket-welding

Part #			SDR	fitting Ø
65414U	10	250	7.4	½"
65416U	10	70	7.4	¾"
65418U	5	40	7.4	1"

Figure

Description



MOULDED SWAN NECK M/F,
socket-welding

Part #			SDR	fitting Ø	
65438	10	400	5	½"	



CURVE 90° F/F,
socket-welding, double coupling wide radius

Part #			SDR	fitting Ø	
65458U	1	400	5	½"	
65460U	1	300	5	¾"	



THREADED JOINT F,
socket-welding, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
66008U	10	200	5	F ½" - ½"	
66009U	10	200	5	F ½" - ¾"	
66010U	10	200	5	F ¾" - ¾"	
66011U	10	200	5	F ¾" - ½"	
66013U	5	150	5	F ¾" - 1"	



THREADED JOINT F,
socket-welding, with hexagonal seat, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
66108U	10	200	5	F ½" - ½"	
66109U	10	150	5	F ¾" - ½"	
66110U	10	150	5	F ¾" - ¾"	
66112U	10	80	5	F 1" - 1"	
66114U	5	50	5	F 1¼" - 1-¼"	
66116U	5	40	5	F 1½" - 1-½"	
66118U	1	25	5	F 2" - 2"	
66120U	1	15	5	F 2½" - 2-½"	
66122U	1	12	5	F 3" - 3"	
66124U	1	6	5	F 4" - 3-½"	
66125U	1		5	F 4" - 4"	
66126U	1	2	5	F 5" - 4	

Part #			SDR	fitting Ø	
66108SR	10	200	5	F ½" - ½"	
66109SR	10	150	5	F ¾" - ½"	
66110SR	10	150	5	F ¾" - ¾"	
66112SR	10	80	5	F 1" - 1"	
66114SR	5	50	5	F 1¼" - 1-¼"	
66116SR	5	40	5	F 1½" - 1-½"	
66118SR	1	25	5	F 2" - 2"	
66120SR	1	15	5	F 2½" - 2-½"	

UV RES

**THREADED JOINT F,**

male socket-welding, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
66150U	10	200	5	F ½" - ½"	

**THREADED JOINT F,**

male socket-welding, with hexagonal seat, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
66158U	10	200	5	F ½" - ½"	

**THREADED JOINT M,**

socket-welding, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
66208U	10	200	5	M ½" - ½"	
66209U	10	200	5	M ½" - ¾"	
66210U	10	200	5	M ¾" - ¾"	
66211U	10	200	5	M ¾" - ½"	
66213U	5	150	5	M ¾" - 1"	

**THREADED JOINT M,**

socket-welding, with hexagonal seat, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
66308U	10	200	5	M ½" - ½"	
66310U	10	150	5	M ¾" - ¾"	
66311U	10	150	5	M ¾" - ½"	
66312U	5	70	5	M 1" - 1"	
66313U	5	50	5	M 1" - 1-¼"	
66314U	5	50	5	M 1¼" - 1-¼"	
66316U	5	40	5	M 1½" - 1-½"	
66318U	1	20	5	M 2" - 2"	
66320U	1	20	5	M 2½" - 2-½"	
66321U	1	15	5	M 2½" - 3"	
66322U	1	6	5	M 3" - 3"	
66324U	1	6	5	M 3" - 3-½"	
66325U	1	4	5	M 4" - 3-½"	
66326U	1	2	5	M 5" - 4"	

Part #			SDR	fitting Ø	
66308SR	10	200	5	M ½" - ½"	
66310SR	10	150	5	M ¾" - ¾"	
66311SR	10	150	5	M ¾" - ½"	
66312SR	5	70	5	M 1" - 1"	
66313SR	5	50	5	M 1" - 1-¼"	
66314SR	5	50	5	M 1¼" - 1-¼"	
66316SR	5	40	5	M 1½" - 1-½"	
66318SR	1	20	5	M 2" - 2"	
66320SR	1	20	5	M 2½" - 2-½"	
66321SR	1	15	5	M 2½" - 3"	
66322SR	1	6	5	M 3" - 3"	
66324SR	1	6	5	M 3" - 3-½"	

UV RES

Figure

Description



THREADED JOINT M,
male socket-welding, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
66350U	10	200	5	M ½" - ½"	



THREADED JOINT M,
male socket-welding, with hexagonal seat, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
66358U	10	200	5	M ½" - ½"	



THREADED ELBOW F,
socket-welding, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
67008U	10	200	5	F ½" - ½"	
67009U	10	150	5	F ½" - ¾"	
67010U	10	150	5	F ¾" - ¾"	
67011U	10	100	5	F ¾" - ½"	
67013U	5	80	5	F ¾" - 1"	
67014U	5	70	5	F 1" - 1"	



THREADED ELBOW F WITH BRACKET,
socket-welding, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
67108U	10	150	5	F ½" - 20	
67109U	10	100	5	F ¾" - 20	
67110U	10	100	5	F ¾" - 25	
67111U	10	100	5	F ½" - 25	



DOUBLE TERMINAL KIT,
multiple inputs, NPT female thread in alloy, with closing caps for surplus input; C511, lead-free, complies with NSF372

Part #		SDR	fitting Ø	Centre-to-centre distance	
67178	1	5	F ½"-½"	5-7/8"	



TERMINAL BRACKET WITH DOUBLE INTEGRATED ELBOW,
female NPT thread in alloy; C511, lead-free, complies with NSF372

Part #		SDR	fitting Ø	Centre-to-centre distance	
67190	1	5	F ½"-¾"	5-7/8"	



THREADED ELBOW F,
male socket-welding, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
67208U	10	200	5	F ½"-½"	

**THREADED ELBOW M,**

socket-welding, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
67500U	10	150	5	M ½" - ¾"	
67508U	10	150	5	M ½" - ½"	
67509U	10	100	5	M ¾" - ½"	
67510U	10	100	5	M ¾" - ¾"	
67511U	5	50	5	M ¾" - 1"	
67512U	5	50	5	M 1" - 1"	

**THREADED TEE F,**

socket-welding, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
68008U	10	150	5	½" - ½" - F ½"	
68009U	10	100	5	½" - ½" - F ¾"	
68010U	10	100	5	¾" - ¾" - F ¾"	
68011U	10	100	5	¾" - ¾" - F ½"	
68014U	5	50	5	1" - 1" - F ¾"	
68016U	5	50	5	1" - 1" - F 1"	
68028U	1		5	1-½" - 1-½" - F ¾"	
68038U	1		5	2" - 2" - F ¾"	

**THREADED TEE M,**

socket-welding, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
68508U	10	150	5	½" - ½" - M ½"	

**PIPE UNION,**

socket-welding, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
69010U	5	200	5	F ¾" - ½"	
69011U	5	150	5	F ¾" - ¾"	
69012U	5	150	5	F 1" - ¾"	
69013U	5	100	5	F 1" - 1"	
69014U	5	50	5	F 1¼" - 1"	

**BENT PIPE UNION,**

socket-welding, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
69110U	5	150	5	F ¾" - 1/2"	
69111U	5	150	5	F ¾" - 3/4"	
69112U	5	100	5	F 1" - 3/4"	
69113U	5	70	5	F 1" - 1"	
69114U	5	40	5	F 1¼" - 1"	

Figure



Description

THREADED PIPE UNION M,

male socket-welding to male NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
69230U	5	200	6	M ½" - ½"	
69232U	5	100	6	M ¾" - ¾"	
69234U	5	50	6	M 1" - 1"	
69236U	5	40	6	M 1¼" - 1-¼"	
69238U	1	20	6	M 1½" - 1-½"	
69240U	1	15	6	M 2" - 2"	



THREADED PIPE UNION F,

male socket-welding to female NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
69260U	5	150	6	F ½" - ½"	
69262U	5	100	6	F ¾" - ¾"	
69264U	5	50	6	F 1" - 1"	
69266U	5	40	6	F 1¼" - 1-¼"	
69268U	1	20	6	F 1½" - 1-½"	
69270U	1	15	6	F 2" - 2"	



PIPE UNION,

female socket-welding; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
69280U	5	100	7.4	½" - ½"	
69282U	5	50	7.4	¾" - ¾"	
69284U	5	30	7.4	1" - 1"	
69286U	5	20	7.4	1-¼" - 1-¼"	
69288U	1	10	7.4	1-½" - 1-½"	
69290U	1	8	7.4	2" - 2"	



PIPE UNION IN PP-RCT,

female socket-welding

Part #			SDR	fitting Ø	
69320U	1	80	6	½" - ½"	
69322U	1	70	6	¾" - ¾"	
69324U	1	40	6	1" - 1"	
	1		6	1-¼" - 1-¼"	
	1		6	1-½" - 1-½"	
	1		6	2" - 2"	



PIPE UNION IN PP-RCT WITH CHECK VALVE,

in synthetic material, female socket-welding

Part #			SDR	fitting Ø	
69360U	1	80	6	½" - ½"	
69362U	1	70	6	¾" - ¾"	
69364U	1	40	6	1" - 1"	



RING NUT,
of PA-M, for pipe union in PP-R

Part #			fitting Ø	for part
40328U	10	200	½"	69320-69360
40330U	5	120	¾"	69322-69362
40332U	5	100	1"	69324-69364



PP-R EUROCONO FITTING

Part #		SDR	fitting Ø
69390U	1	6	½"



RING NUT,
socket-welding, NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			fitting Ø
69314U	5	200	F ½"



PP-R REPAIR PLUG,
socket-welding, for hole repairs

Part #			Desc.
69350U	10	1000	¼" - ¾"



ELECTROFUSION COUPLING,
socket-welding, low tension

Part #			SDR	fitting Ø
69508U	10	250	7.4	½"
69510U	10	200	7.4	¾"
69512U	10	150	7.4	1"
69514U	5	100	7.4	1-¼"
69516U	5	75	7.4	1-½"
69518U	1	50	7.4	2"
69520U	1	35	7.4	2-½"
69522U	1	24	7.4	3"
69524U	1	12	7.4	3-½"
69526U	1	10	7.4	4"
69528	1		11	6"
69530	1	4	11	8"
69532	1		11	10"
69534	1		11	12"
69536	1		11	14"
69538	1		11	16"

Figure

Description



BALL VALVE,

male socket-welding, alloy body, with handle, with pipe unions and tangs; C511, lead-free, complies with NSF372

Part #			SDR	PN	fitting Ø	
40008U	5	50	6	20	1/2"	
40010U	5	40	6	20	3/4"	
40012U	1	20	6	16	1"	
40014U	1	15	6	16	1-1/4"	
40016U	1	10	6	16	1-1/2"	
40018U	1	7	6	16	2"	



BALL VALVE,

male socket-welding, alloy body, with butterfly handle, with pipe unions and tangs; C511, lead-free, complies with NSF372

Part #			SDR	PN	fitting Ø	
40058U	5	50	6	20	1/2"	
40060U	5	40	6	20	3/4"	
40062U	1	20	6	16	1"	



BALL VALVE,

male socket-welding, alloy body, with handle, with pipe union and threaded tang NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	PN	fitting Ø	
40068U	5	50	6	20	M 1/2" - 1/2"	
40070U	5	40	6	20	M 3/4" - 3/4"	
40072U	1	20	6	16	M 1" - 1"	
40074U	1		6	16	M 1/4" - 1-1/4"	
40076U	1		6	16	M 1/2" - 1-1/2"	
40078U	1		6	16	M 2" - 2"	



BALL VALVE,

male socket-welding, alloy body, with butterfly handle, with pipe union and threaded tang NPT thread in alloy; C511, lead-free, complies with NSF372

Part #			SDR	PN	fitting Ø	
40098U	5	50	6	20	M 1/2" - 1/2"	
40100U	5	40	6	20	M 3/4" - 3/4"	
40102U	1	20	6	16	M 1" - 1"	



BALL VALVE,

alloy body, EN ISO 228-1 thread, with handle; C511, lead-free, complies with NSF372

Part #		PN	fitting Ø	
40108	5	20	M 3/4" - M 3/4"	
40110	5	20	M 1" - M 1"	
40112	1	16	M 1-1/4" - M 1-1/4"	
40114	1	16	M 1-1/2" - M 1-1/2"	
40116	1	16	M 2" - M 2"	
40118	1	16	M 2-1/2" - M 2-1/2"	

**BALL VALVE,**

PP-R body and alloy ball, with butterfly hand; heating, industrial applications and non-potable water

Part #			SDR	fitting Ø	
40228U	5	100	5	½"	
40230U	5	80	5	¾"	
40232U	1	40	5	1"	

**BALL VALVE,**

PP-R body and alloy ball, with handle; heating, industrial applications and non-potable water

Part #			SDR	fitting Ø	
40234U	1	25	5	1-¼"	
40236U	1	15	5	1-½"	
40238U	1	8	5	2"	
40240U	1	6	6	2-½"	
40242U	1		11	3"	
40244U	1		11	3-½"	
40246U	1		11	4"	

**PP BALL VALVE,**

body, collars, ball and ring nut in completely in PP

Part #			SDR	PN	fitting Ø	
40358U	1	25	7.4	10	½"	
40360U	1	25	7.4	10	¾"	
40362U	1	15	7.4	10	1"	
40364U	1	10	7.4	10	1-¼"	
40366U	1	7	7.4	10	1-½"	
40368U	1	4	7.4	10	2"	

**RING NUT,**

of PP, for PP ball-valve

Part #			fitting Ø	for part	
40378	10	200	½"	40358	
40380	5	120	¾"	40360	
40382	5	100	1"	40362	
40384	1	50	1-¼"	40364	
40386	1	40	1-½"	40366	
40388	1		2"	40368	

**FIXING KIT,**

for securing the PP ball-valve to the wall, comes with bracket and screws

Part #		for part	
27696	1	40358 - 40360 - 40362 40364 - 40366 - 40368	

Figure



HANDLE,
for ball valve

Part #		for part	
40130	1	40008-40010 / 40108-40110 / 40068-40070 40232	
40132	1	40012-40014-40016 / 40112-40114-40116 40068-40070-40072 / 40234-40236	
40134	1	40018 / 40118 / 40078 / 40238-40240	
40140	1	40242 / 40244 / 40246	



EXTENSION,
for ball-valve serie 40228

Part #		for part	H	
40970	1	40232	55	
40972	1	40234-40236	70	
40974	1	40238-40240	60	
40976	1	40242-40244	64	



EXTENSION,
for ball-valve serie 40008

Part #		for part	H	
40971	1	40008- 40010	55	
40973	1	40012-40014-40016	70	
40975	1	40018	60	



BUTTERFLY HANDLE,
of alloy, for ball valve

Part #		for part	
22850*	1	40058-40060-40098-40100	
22852*	1	40062-40102	
22856	1	40228-40230	
22858	1	40232	



TANG,
male socket-welding, for ball valve, for series 40008, 40058, 40068, 40098

Part #			SDR	fitting Ø	
40208U	10	200	6	F ¾" - ½"	
40210U	10	200	6	F 1" - ¾"	
40212U	5	100	6	F 1¼" - 1"	
40214U	5	100	6	F 1½" - 1-¼"	
40216U	1	50	6	F 2" - 1-½"	
40218U	1	20	6	F 2½" - 2"	

**SHUT-OFF VALVE,**

socket-welding, for outside, with alloy auger and handwheel; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
40719U	1	40	5	½"	
40721U	1	40	5	¾"	
40723U	1	30	5	1"	

**SHUT-OFF VALVE,**

socket-welding, body with alloy thread, wall built-in, chrome-plated closed cap, ball closing with total flowing; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
40730U	1	40	5	½"	
40732U	1	40	5	¾"	

**SHUT-OFF VALVE,**

socket-welding, with alloy auger, for enclosed systems, with chrome-plated handle and washer; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
40900U	1	40	5	½"	
40902U	1	40	5	¾"	
40920U	1	30	5	1"	

**SHUT-OFF VALVE,**

socket-welding, with alloy auger, for enclosed systems, with handle and washer of chromed ABS and cold-warm indicators; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
40910U	1	40	5	½"	
40912U	1	40	5	¾"	

**SHUT-OFF VALVE,**

socket-welding, with alloy auger, for enclosed systems, with chrome-plated closed-cap and washer; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
40921U	1	40	5	½"	
40923U	1	40	5	¾"	
40924U	1	30	5	1"	

**SHUT-OFF VALVE,**

socket-welding, with alloy auger, for enclosed systems, with closed-cap and washer of chromed ABS and cold-warm indicators; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	
40941U	1	40	5	½"	
40943U	1	40	5	¾"	

Figure



Description

VALVE CASING,

socket-welding, for screw shut-off valve, with alloy thread; C511, lead-free, complies with NSF372

Part #			SDR	fitting Ø	for part
40846U	10	100	5	½"	40719-40900-40910 40921-40941
40847U	10	100	5	¾"	40721-40902-40923-40943
40850U	5	50	5	1"	40723-40912-40920-40924

**VALVE CASING,**

socket-welding, for enclosed systems, ball valve with full flow port; C511, lead-free, complies with NSF372

Part #		SDR	fitting Ø
40852U	1	5	½"
40854U	1	5	¾"

**AUGER,**

of alloy with handwheel, for shut-off valve; C511, lead-free, complies with NSF372

COD			for part
40925	5	100	40846-40847-40921-40923-40941-40943
40926	5		40850-40924

**HANDWHEEL,**

of plastics, for auger

Part #		for part
40990	10	40921-40923-40924-40925-40926

**CAP,**

of alloy, with chrome-plated washer

Part #			for part
40927	5	100	40921-40923-40925
40950	5	80	40924-40926

**CAP,**

of chromed ABS, with washer and hot-cold indicators

Part #			for part
40954	5	100	40941-40943

**CAP,**

of alloy, with chrome-plated washer

Part #		for part
40952	1	40730-40732-40852-40854



HANDWHEEL AUGER,
of alloy, with handwheel; C511, lead-free, complies with NSF372

Part #			for part	
40928	5	100	40719-40721-40846-40847	
40953	5		40723-40850	



HANDWHEEL,
made of alloy, for auger; C511, lead-free, complies with NSF372

Part #			for part	
40992	1		40719-40721-40928	
40994	1		40723-40953	



AUGER,
made of alloy, for handle valve; C511, lead-free, complies with NSF372

Part #			for part	
40956	5	100	40846-40847-40900-40902-40910-40912	
40960	5	100	40850-40920	



HANDLE,
made of alloy, with chrome-plated washer

Part #			for part	
40964	5	50	40900-40902-40956	
40966	5	100	40920-40960	



HANDLE,
made of chromed ABS, with washer and cold-warm indicators

Part #			for part	
40967	5	50	40910-40912	



COLD-WARM INDICATOR

Part #			for part	
40980	2		40910-40912-40941-40943-40954-40967	



EXTENSION,
made of alloy, for shut-off valve, length 1-3/8"; C511, lead-free, complies with NSF372

Part #			for part	
40931	5	400	40730-40732-40900-40902-40910-40912-40921-40923-40941-40943	
40933	5	400	40920-40924	

Figure



Description

EXTENSION,

of alloy, for auger, length 1'-5/8"; C511, lead-free, complies with NSF372

Part #			for part
40934	5	400	40730-40732-40852-40854-40900-40902-40910-40912-40921-40923--40920-40924-40925-40926-40941-40943-40956-40960



CLIPS,

brackets for pipe support

Part #			for pipe
27044	50	2000	1/2"
27046	50	1500	3/4"



PAINT PR 094G/01,

protection for PPS, PPSU, PP-R, PE-RT, PA-M and PE-X pipes and fittings, color grey

Part #		Desc.
71400*	1	2.2 lbs.



THINNER 2001,

for paint PR 094G/01 and cleaning before painting

Part #		Desc.	for part
71405*	1	33.8 oz.	71400



CLOSING CAP,

made of plastic, for plant testing

Part #			fitting Ø
27048	10	500	M 1/2"
27050	10	400	M 3/4"



O-RING,

for testing cap

Part #		fitting Ø	for part
27052	10	3/4"	27050
27053	10	1/2"	27048



COMPASS LEVEL,

made of metal, adjustable spacer for sanitary piping placement, extension from 3'-1/8" to 9'-3/8"

Part #			Desc.
27054	1	35	3'-1/8" ~ 9'-3/8"

**SPACER,**

of plastics, adjustable for sanitary piping placement, extension from 3-1/8" to 9-3/8"

Part #			Desc.	
27056	5	100	3-1/8" ~ 9-3/8"	

**PRE-HOLED BRACKET,**

made of plastic, fixed for sanitary support

Part #				
27058	5	120		

**POSITIONER,**

made of metal, adjustable for radiator connection, extension from 15-3/4" to 37-3/8"

Part #		Desc.	
50250*	1	15-3/4" ~ 37-3/8"	

**PIPE FASTENING BRACKET,**

made of plastic, double, for multilayer and fusio-technik pipes

Part #		Desc.	L thread	Ø thread	for pipe	
27510	10	3-1/16"	2-3/16"	5/16"	1/2"	
27512	10	4-3/16"	3-1/8"	5/16"	1/2"	
27514	10	4-15/16"	3-15/16"	3/16"	3/4" - 1"	

**PIPE FASTENING BRACKET,**

made of plastic, single, for multilayer and fusio-technik pipes

Part #		Desc.	L thread	Ø thread	for pipe	
27511	10	3-1/16"	2-3/16"	5/16"	1/2"	
27513	10	4-3/16"	3-1/8"	5/16"	1/2"	
27515	10	4-15/16"	3-15/16"	3/16"	3/4" - 1"	

**COLLAR,**

with rubber protection thread M8, completed with wall-plug Ø 25/64"

Part #			for pipe	
27520	5	150	1/2"	
27525	5	150	3/4"	
27532	5	100	1"	
27540	5	100	1-1/4"	
27550	5	50	1-1/2"	
27563	5	50	2"	

Figure



Description

SUPPORT CLAMP,
with rubber protection thread M10

Part #			for pipe	
27575	1	30	2-½"	
27590	1	30	3"	
27610	1	25	3-½"	
27612	1	25	4"	
27614	1	15	6"	
27616	1	10	8"	
27618	1	10	10"	



SUPPORT CLAMP THREADED BOLT,
with washers and reducer, thread M10, wall-plug Ø ½", for each collar from Ø 2-½" to 10"

Part #			for part	
27640	1	200	27575-27590-27610-27612-27614-27616-27618	



REDUCING NUT,
made of metal, for brackets from Ø 2-½" to 10"

Part #			Ext	Int	
27630	5	200	½"	25/64"	



QUICK COUPLING GRIP SUPPORT,
made of metal

Part #			for part	
27670	5	200	27650-27660	



CAP FOR CHANNEL BRACKET,
made of plastic

Part #			for part	
27680	5	400	27650-27660	



L-SHAPED CHANNEL BRACKET,
made of galvanized steel

Part #			L	H	
27650	1	7	14-½"	11"	



CHANNEL BRACKET,
made of galvanized steel

Part #			L	H	
27660	1	20	11-¼"	4"	

Distribution Group, manifolds and special items

made of fusio-technik system components

A custom-made system for the production of manifolds and special items according to specific demands, making it easier for installers and designers.

Technology of the system combined with a compact design.



DISTRIBUTION GROUP

Taking advantage of the high performances of the fusio-technik pipes and from the wide range of fittings and accessories proposed by the company, we present the new DISTRIBUTION GROUP for central heating systems, composed of hydraulic separators and custom-made manifolds, that allows the resolution of problems related to the variation of flow rate and head loss of each circuit, avoiding pressure peaks due to the delayed operation of the pumps that control the operation of each circuit of the system.

The distribution group combines a series of technical advantages and aesthetic features of a compact design.

The manifolds, as well as the hydraulic separators, are also available separately for creating traditional systems.

In addition to the standard range, special pieces up to Ø 16" (400 mm) can be custom-made. The service includes the design of the workpiece, the quotation and the implementation, with the advantage of definite time and cost.

All Made in Italy.

Advantages

The main advantages of the system are:

- high resistance to oxidizing agents
- increased resistance to temperature and pressure;
- low thermal dispersion;
- reduced oxygen permeability;
- reduced weight;
- fast and safe installation thanks to thermofusion;
- total resistance to corrosion;
- no painting required.

Range

Ø 2" - outputs Ø 1"

Ø 3" - outputs Ø 1-¼"

Ø 3-½" - outputs Ø 1-½"

Ø 3-½" - outputs Ø 2"

Use

Particularly suitable for the construction of thermal plants for heating and air conditioning systems, they are also suitable for the conveyance of cold and medium temperature drinking water.

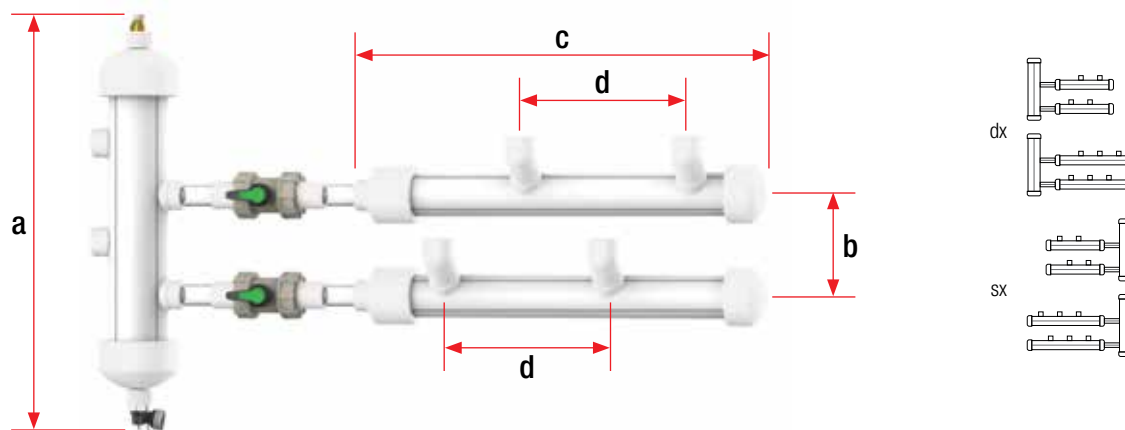
For the correlation between pressure and operating temperature, always refer to the operating conditions defined for the pipes and given in the technical documentation.

Utilization field

The large diameter range and the wide choice of pipes allow the system to be used in the most varied fields in the civil, industrial and service sectors for hydro-sanitary, heating and cooling.



Figure



Description

DISTRIBUTION GROUP Ø 2" outputs Ø 1",

SDR 11, complete with Ø 3" hydraulic separator, A supply and return distribution manifold, both Ø 2", 2 Ø 1" PP valves, manual vent-valve connection M $\frac{1}{2}$ " - drain M $\frac{3}{4}$ " and drain valve M $\frac{1}{2}$ "

COD		A	a	b	c	d	
K40063032D2	1	2 dx	23- $\frac{1}{8}$ "	5- $\frac{7}{8}$ "	24- $\frac{1}{2}$ "	9- $\frac{13}{16}$ "	
K40063032D3	1	3 dx	23- $\frac{1}{8}$ "	5- $\frac{7}{8}$ "	34- $\frac{3}{8}$ "	9- $\frac{13}{16}$ "	
K40063032S2	1	2 sx	23- $\frac{1}{8}$ "	5- $\frac{7}{8}$ "	24- $\frac{1}{2}$ "	9- $\frac{13}{16}$ "	
K40063032S3	1	3 sx	23- $\frac{1}{8}$ "	5- $\frac{7}{8}$ "	34- $\frac{3}{8}$ "	9- $\frac{13}{16}$ "	

A: outputs

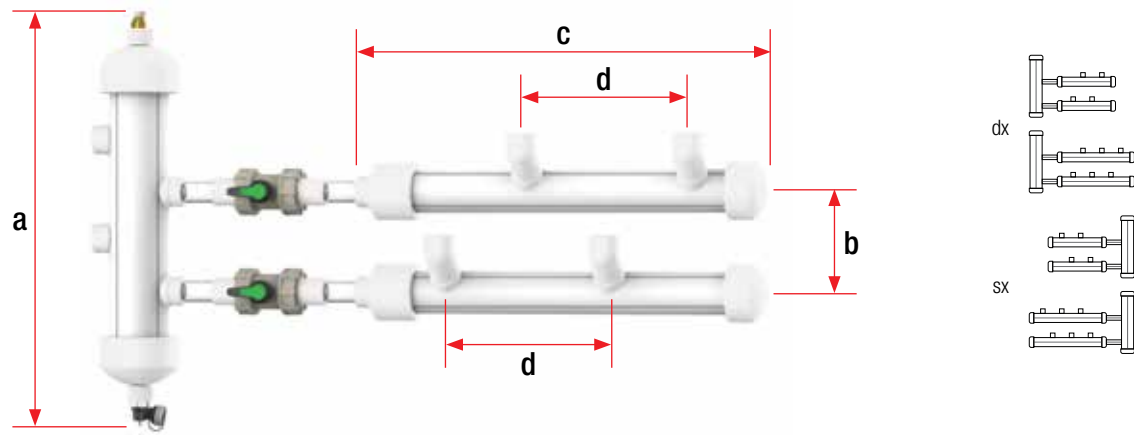
DISTRIBUTION GROUP Ø 3" outputs Ø 1-¼",

SDR 11, complete with Ø 3-½" hydraulic separator, A supply and return distribution manifold in Ø 3", 2 Ø 1-¼" PP valves, manual vent-valve connection M $\frac{1}{2}$ " - drain M $\frac{3}{4}$ " and drain valve M $\frac{1}{2}$ "

COD		A	a	b	c	d	
K40090040D2	1	2 dx	33- $\frac{5}{16}$ "	9- $\frac{13}{16}$ "	27- $\frac{11}{16}$ "	9- $\frac{13}{16}$ "	
K40090040D3	1	3 dx	33- $\frac{5}{16}$ "	9- $\frac{13}{16}$ "	38- $\frac{3}{8}$ "	9- $\frac{13}{16}$ "	
K40090040S2	1	2 sx	33- $\frac{5}{16}$ "	9- $\frac{13}{16}$ "	27- $\frac{11}{16}$ "	9- $\frac{13}{16}$ "	
K40090040S3	1	3 sx	33- $\frac{5}{16}$ "	9- $\frac{13}{16}$ "	38- $\frac{3}{8}$ "	9- $\frac{13}{16}$ "	

A: outputs

Figure



Description

DISTRIBUTION GROUP Ø 3-1/2" outputs Ø 1-1/2",

SDR 11, complete with Ø 4" hydraulic separator, a supply and return distribution manifold in Ø 3-1/2", 2 Ø 1-1/2" PP valves, manual vent-valve connection M1/2" - drain M3/4" and drain valve M1/2"

COD		A	a	b	c	d	
K40110050D2	1	2 dx	33-3/4"	9-13/16"	29"	9-13/16"	
K40110050D3	1	3 dx	33-3/4"	9-13/16"	38-13/16"	9-13/16"	
K40110050S2	1	2 sx	33-3/4"	9-13/16"	29"	9-13/16"	
K40110050S3	1	3 sx	33-3/4"	9-13/16"	38-13/16"	9-13/16"	

A: outputs

A: salidas

A: Ausgänge

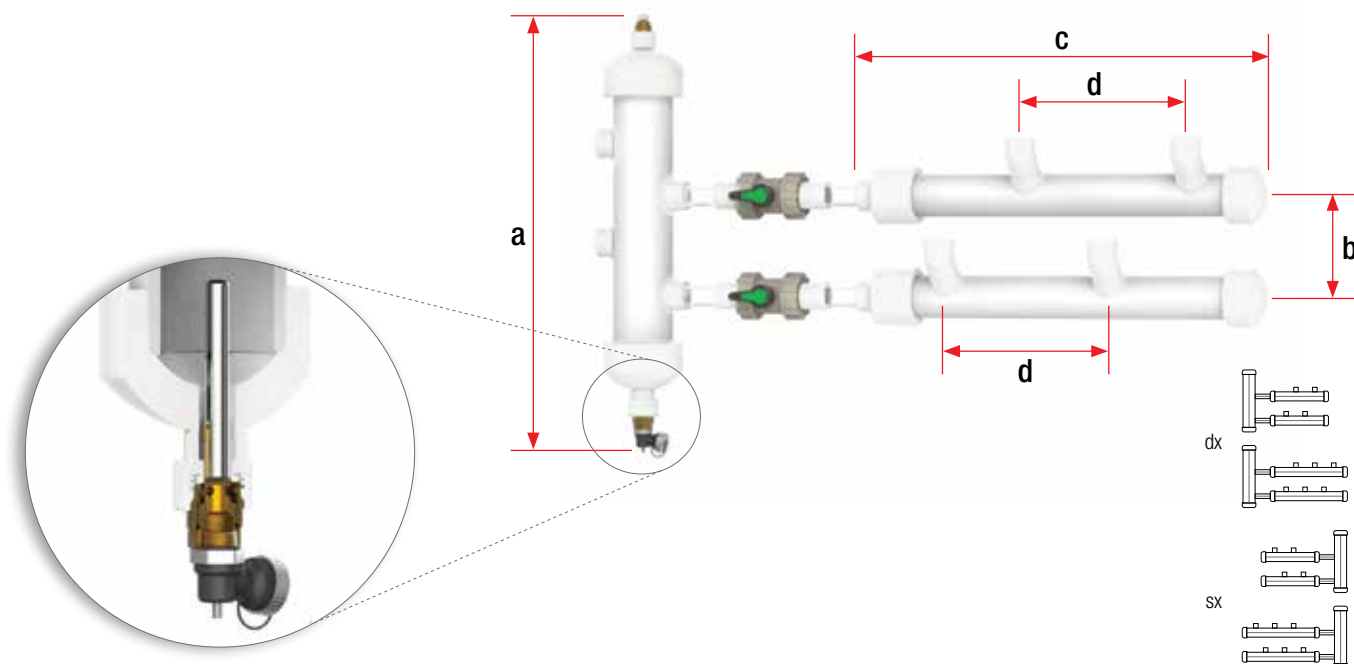
A: sortie

DISTRIBUTION GROUP Ø 3-1/2" outputs Ø 2",

SDR 11, complete with Ø 4" hydraulic separator, a supply and return distribution manifold in Ø 3-1/2", 2 Ø 2" PP valves, manual vent-valve connection M1/2" - drain M3/4" and drain valve M1/2"

COD		A	a	b	c	d	
K40110063D2	1	2 dx	33-3/4"	9-13/16"	29"	9-13/16"	
K40110063D3	1	3 dx	33-3/4"	9-13/16"	38-13/16"	9-13/16"	
K40110063S2	1	2 sx	33-3/4"	9-13/16"	29"	9-13/16"	
K40110063S3	1	3 sx	33-3/4"	9-13/16"	38-13/16"	9-13/16"	

A: outputs



Description

DISTRIBUTION GROUP WITH MAGNETIC FILTER Ø 2" outputs Ø 1",

SDR 11, complete with a Ø 3" hydraulic separator, a supply and return distribution manifold in Ø 2", 2 Ø 1" PP valves, manual vent-valve connection M $\frac{1}{2}$ "- drain M $\frac{3}{4}$ " and drain valve M $\frac{1}{2}$ " and magnetic filter

COD		A	a	b	c	d	
K41063032D2	1	2 dx	24- $\frac{1}{16}$ "	5- $\frac{7}{8}$ "	24- $\frac{1}{2}$ "	9- $\frac{13}{16}$ "	
K41063032D3	1	3 dx	24- $\frac{1}{16}$ "	5- $\frac{7}{8}$ "	34- $\frac{3}{8}$ "	9- $\frac{13}{16}$ "	
K41063032S2	1	2 sx	24- $\frac{1}{16}$ "	5- $\frac{7}{8}$ "	24- $\frac{1}{2}$ "	9- $\frac{13}{16}$ "	
K41063032S3	1	3 sx	24- $\frac{1}{16}$ "	5- $\frac{7}{8}$ "	34- $\frac{3}{8}$ "	9- $\frac{13}{16}$ "	

A: outputs

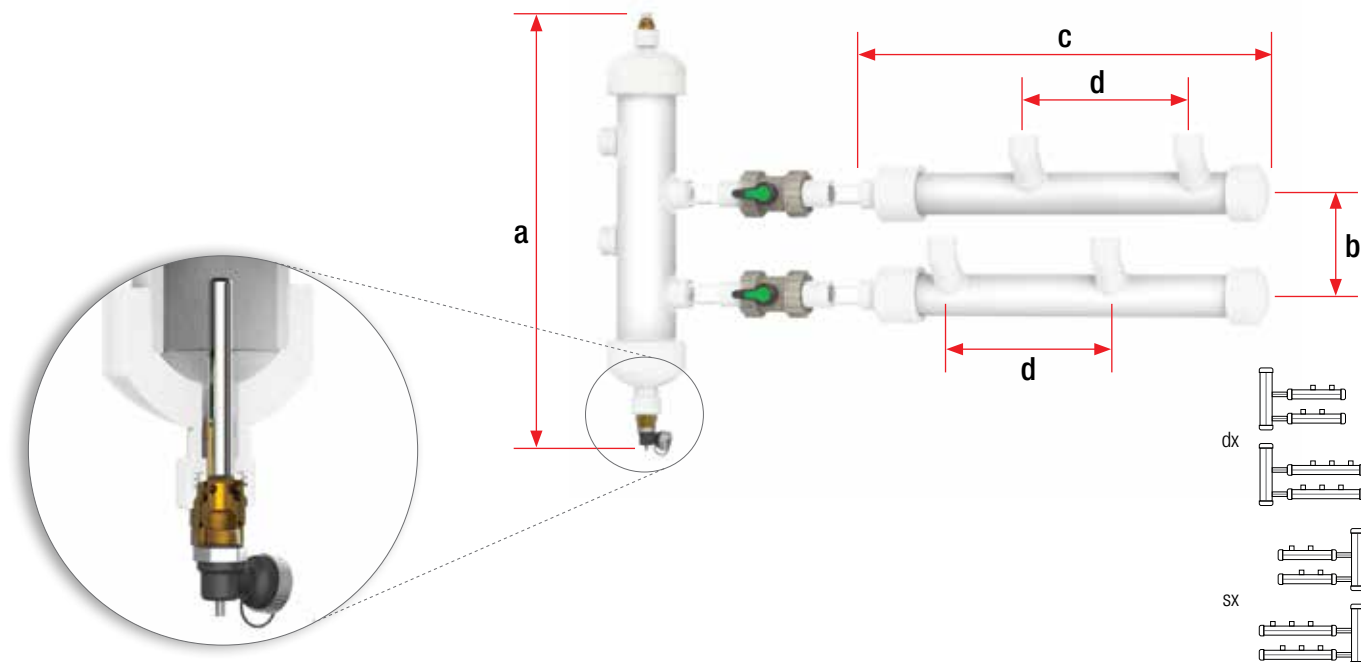
DISTRIBUTION GROUP WITH MAGNETIC FILTER Ø 3" outputs Ø 1- $\frac{1}{4}$ ",

SDR 11, complete with a Ø 3- $\frac{1}{2}$ " hydraulic separator, a supply and return distribution manifold in Ø 3", 2 Ø 1- $\frac{1}{4}$ " PP valves, manual vent-valve connection M $\frac{1}{2}$ "- drain M $\frac{3}{4}$ " and drain valve M $\frac{1}{2}$ " and magnetic filter

COD		A	a	b	c	d	
K41090040D2	1	2 dx	34- $\frac{1}{4}$ "	9- $\frac{13}{16}$ "	27- $\frac{11}{16}$ "	9- $\frac{13}{16}$ "	
K41090040D3	1	3 dx	34- $\frac{1}{4}$ "	9- $\frac{13}{16}$ "	38- $\frac{3}{8}$ "	9- $\frac{13}{16}$ "	
K41090040S2	1	2 sx	34- $\frac{1}{4}$ "	9- $\frac{13}{16}$ "	27- $\frac{11}{16}$ "	9- $\frac{13}{16}$ "	
K41090040S3	1	3 sx	34- $\frac{1}{4}$ "	9- $\frac{13}{16}$ "	38- $\frac{3}{8}$ "	9- $\frac{13}{16}$ "	

A: outputs

Figure



Description

DISTRIBUTION GROUP WITH MAGNETIC FILTER Ø 3" outputs Ø 1-½"

SDR 11, complete with a Ø 4" hydraulic separator, a supply and return distribution manifold in Ø 3-½", couple of PP valves Ø 1-½", manual vent-valve connection M½" - drain M¾" and drain valve M½" and magnetic filter

COD		A	a	b	c	d	
K41110050D2	1	2 dx	34 ^{-11/16"}	9 ^{-13/16"}	29"	9 ^{-13/16"}	
K41110050D3	1	3 dx	34 ^{-11/16"}	9 ^{-13/16"}	38 ^{-13/16"}	9 ^{-13/16"}	
K41110050S2	1	2 sx	34 ^{-11/16"}	9 ^{-13/16"}	29"	9 ^{-13/16"}	
K41110050S3	1	3 sx	34 ^{-11/16"}	9 ^{-13/16"}	38 ^{-13/16"}	9 ^{-13/16"}	

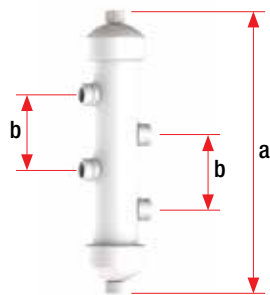
A: outputs

DISTRIBUTION GROUP WITH MAGNETIC FILTER WITH MAGNETIC FILTER Ø 3-½" outputs Ø 2"

SDR 11, complete with a Ø 4" hydraulic separator, a supply and return distribution manifold in Ø 3-½", 2 Ø 2" PP valves, manual vent-valve connection M½" - drain M¾" and drain valve M½" and magnetic filter

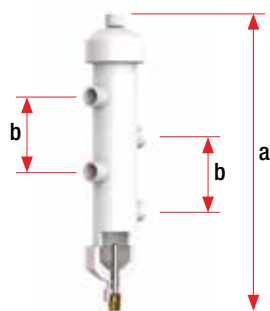
COD		A	a	b	c	d	
K41110063D2	1	2 dx	34 ^{-11/16"}	9 ^{-13/16"}	29"	9 ^{-13/16"}	
K41110063D3	1	3 dx	34 ^{-11/16"}	9 ^{-13/16"}	38 ^{-13/16"}	9 ^{-13/16"}	
K41110063S2	1	2 sx	34 ^{-11/16"}	9 ^{-13/16"}	29"	9 ^{-13/16"}	
K41110063S3	1	3 sx	34 ^{-11/16"}	9 ^{-13/16"}	38 ^{-13/16"}	9 ^{-13/16"}	

A: outputs

**HYDRAULIC SEPARATOR,**

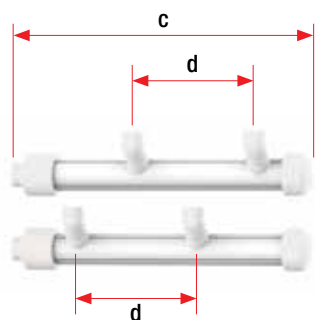
SDR 11, without manual vent- and drain valves, with supply-return output

COD		Ø	a	b	
40090032	1	3" - 1"	23-1/8"	5-7/8"	
40110040	1	3-1/2" - 1-1/4"	33-5/16"	9-13/16"	
40125050	1	4" - 1-1/2"	33-3/4"	9-13/16"	
40125063	1	4" - 2"	33-3/4"	9-13/16"	

**HYDRAULIC SEPARATOR WITH MAGNETIC FILTER,**

SDR 11, without manual vent- and drain valves, with supply-return output

COD		Ø	a	b	
41090032	1	3" - 1"	23-1/8"	5-7/8"	
41110040	1	3-1/2" - 1-1/4"	33-5/16"	9-13/16"	
41125050	1	4" - 1-1/2"	33-3/4"	9-13/16"	
41125063	1	4" - 2"	33-3/4"	9-13/16"	

**DISTRIBUTION MANIFOLDS,**

SDR 11, consisting of couple of supply-return manifolds

COD		Ø	A	c (mm)	d (mm)	btuh (Δt=18°F)	B (gpm)	
40063032D2	1	2" - 1"	2 dx	24-1/2"	9-13/16"	68,240	2.89	
40063032D3	1	2" - 1"	3 dx	34-3/8"	9-13/16"	68,240	2.89	
40063032S2	1	2" - 1"	2 sx	24-1/2"	9-13/16"	68,240	2.89	
40063032S3	1	2" - 1"	3 sx	34-3/8"	9-13/16"	68,240	2.89	
40090040D2	1	3" - 1-1/4"	2 dx	27-11/16"	9-13/16"	105,772	7.29	
40090040D3	1	3" - 1-1/4"	3 dx	38-3/8"	9-13/16"	105,772	7.29	
40090040S2	1	3" - 1-1/4"	2 sx	27-11/16"	9-13/16"	105,772	7.29	
40090040S3	1	3" - 1-1/4"	3 sx	38-3/8"	9-13/16"	105,772	7.29	
40110050D2	1	3" - 1-1/2"	2 dx	29"	9-13/16"	167,188	17.64	
40110050D3	1	3" - 1-1/2"	3 dx	38-13/16"	9-13/16"	167,188	17.64	
40110050S2	1	3" - 1-1/2"	2 sx	29"	9-13/16"	167,188	17.64	
40110050S3	1	3" - 1-1/2"	3 sx	38-13/16"	9-13/16"	167,188	17.64	
40110063D2	1	3-1/2" - 2"	2 dx	29"	9-13/16"	266,126	44.89	
40110063D3	1	3-1/2" - 2"	3 dx	38-13/16"	9-13/16"	266,126	44.89	
40110063S2	1	3-1/2" - 2"	2 sx	29"	9-13/16"	266,126	44.89	
40110063S3	1	3-1/2" - 2"	3 sx	38-13/16"	9-13/16"	266,126	44.89	

A: outputs

B: flow

Figure

Description



DRAIN VALVE,
of PA-M, with cap, with threaded drain M 3/4"

COD		fitting Ø	
93370	1	M 1/2"	



AUTOMATIC VENT VALVE,
of alloy

COD			fitting Ø	
92320 [□]	1	100	M 3/8"	
92322 [□]	1	100	M 1/2"	



MANUAL VENT VALVE,
of alloy

COD			fitting Ø	
92330 [□]	1	500	M 3/8"	
92332 [□]	1	500	M 1/2"	



MAGNET HOLDER FITTING,
of alloy

COD		fitting Ø	for part #	
93372	1	M 3/4 - F 1/2	41090032 - 41110040 41125050 - 41125063	



MAGNET

COD		length	dia.	for part #	
93374	1	101 mm	12,7 mm	93372	

Customer: no. _____ company name _____

goods shipping address: street address _____ city _____

ZIP code _____ state _____ reference person _____

phone no. _____ e-mail _____

Installer: company name _____

customer/work _____ reference person _____

phone no. _____ e-mail _____

Specify the type of pipe to be used or the type of installation

Type of pipe: ☐ faser fiber-T ☐ faser fiber-COND ☐ faser fiber-LIGHT ☐ faser UVRES
☐ Unknown Installation

Installation: ☐ sanitary ☐ mechanical Working temperature _____ °F Maximum pression _____ psi
 Transported fluid _____ Sanitization treatment ☐ Yes ☐ No ☐ Unknown

 Manifold total length (**LT**) _____ Main pipe length (**LTP**) _____

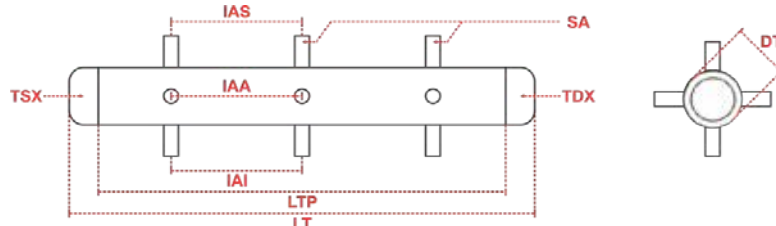
 Main pipe diameter (**DT**) _____ Total number of connections (**NA**) _____

 Specify type and size of thread for each connection (**SA**):

 Upper connections center distance (**IAS**) _____ Lower connections center distance (**IAI**) _____

 Front connections at 90° center distance (**IAA**) _____ Rear connections at 90° center distance (**IAP**) _____

 Termination SX (**TSX**): ☐ cap ☐ flange ☐ thread F Ø _____ ☐ thread M Ø _____ ☐ other _____

 Termination DX (**TDX**): ☐ cap ☐ flange ☐ thread F Ø _____ ☐ thread M Ø _____ ☐ other _____

☐ Enclosed project ☐ As in the project below:

Date

(MDQ-215/02)

Signature

fusio-technik

TOOLS
ACCESSORIES
SPARE PARTS



Figure

Description



POLYFUSION WELDING MACHINE PAE 63,
electronic control, with metal case, clamp and tripod supports

Part #		Desc.
50111-A	1	1/2" ~ 2" USA plug



POLYFUSION WELDING MACHINE PAE 125,
electronic control, with metal case, clamp and tripod supports included and a front handle to ensure easy operation

Part #		Desc.
50117-A	1	1/2" ~ 4" USA plug



CTR PRISMA 125,
welding machine, with jaws from Ø 3/4" to 4", with support feet and case

Part #		Desc.
50093-A	1	3/4" ~ 4"



CTM FUSIO-TECHNIK,
for socket welding on-site, complete with jaws from Ø 2" to 4", pipe support and case

Part #		Desc.
50090	1	2" ~ 4"



UP 125,
saddle welding machine, complete with column pipe clamping system, spindle for fitting placement, adapter for drill, drive for miller, metric pipe marking system from Ø 63 (2") to 250 mm (10"), case

Part #		Desc.
50095	1	for fusion-outlet up to Ø 4"

Figure

Description



ELECTRIC WELDER EL 48-315,
to weld electric couplings in PP-R, low tension

Part #		pipe Ø	
50123-A	1	½" ~ 12"	

Figure

Description

**SOCKET WELDING DIE**

Part #		pipe Ø	
50008	1	½"	
50010	1	¾"	
50012	1	1"	
50014	1	1-¼"	
50016	1	1-½"	
50018	1	2"	
50020	1	2-½"	
50022	1	3"	
50024	1	3-½"	
50025	1	4"	

**HOLE REPAIR,**

tool for part # 69350U repair stem/ plug

Part #		Desc.	
50026	1	¼"	
50028	1	¾"	

**SOCKET ADAPTER EXTENSION**

Part #		Desc.	
50030	1	1"	

**SADDLE OULET WELDING DIE,**

for fusion saddle outlets

Part #		outlet Ø	for pipe	
500316	1	½" - ¾"	1-¼"	
500320	1	½" - ¾"	1-½"	
500340	1	½" - ¾"	2"	
500342	1	1"	2"	
500348	1	½" - ¾"	2-½"	
500360	1	1"	2-½"	
500386	1	½" - ¾"	3"	
500400	1	1"	3"	
500420	1	1-¼"	3"	
500422	1	1-½"	3"	
500428	1	½" - ¾"	3-½"	
500430	1	1"	3-½"	
500440	1	1-¼"	3-½"	
500460	1	1-½"	3-½"	
500462	1	2"	3-½"	
500468	1	½" - ¾"	4"	
500470	1	1"	4"	
500472	1	1-¼"	4"	
500480	1	1-½"	4"	
500500	1	2"	4"	

Figure



Description

SADDLE OUTLET WELDING DIE,
for saddle fusion outlets

Part #		outlet Ø	for pipe	
500508	1	½" - ¾"	6"	
500510	1	1"	6"	
500512	1	1-¼"	6"	
500520	1	1-½"	6"	
500540	1	2"	6"	
500560	1	2-½"	6"	
500580	1	3"	6"	
500586	1	½" - ¾"	8"	
500588	1	1"	8"	
500590	1	1-¼"	8"	
500600	1	1-½"	8"	
500620	1	2"	8"	
500640	1	2-½"	8"	
500660	1	3"	8"	
500680	1	3-½"	8"	
500700	1	4"	8"	
500702	1	½" - ¾"	10"	
500704	1	1"	10"	
500706	1	1-¼"	10"	
500720	1	1-½"	10"	
500740	1	2"	10"	
500760	1	2-½"	10"	
500780	1	3"	10"	
500800	1	3-½"	10"	
500820	1	4"	10"	
500822	1	½" - ¾"	12"	
500824	1	1"	12"	
500826	1	1-¼"	12"	
500828	1	1-½"	12"	
500830	1	2"	12"	
500832	1	2-½"	12"	
500834	1	3"	12"	
500836	1	3-½"	12"	
500838	1	4"	12"	
500842	1	½" - ¾"	14" - 24"	
500844	1	1"	14" - 24"	
500846	1	1-¼"	14" - 24"	
500848	1	1-½"	14" - 18"	
500850	1	2"	14" - 18"	
500852	1	2-½"	14" - 18"	
500854	1	3"	14" - 18"	
500855	1	3-½"	14"	
500856	1	3-½"	16"	
500857	1	4"	14"	
500858	1	4"	16"	
500860	1	1-½"	18"	
500864	1	2"	18"	
500866	1	2-½"	18"	
500868	1	3"	18"	
500870	1	3-½"	18"	
500872	1	4"	18"	
500874	1	1-½"	20" - 24"	
500876	1	2"	20" - 24"	
500878	1	2-½"	20"	


SADDLE OUTLET WELDING DIE,
for saddle fusion outlets

Part #		outlet Ø	for pipe	
500880	1	3"	20"	
500882	1	3-½"	20"	
500884	1	4"	20"	
500886	1	2-½"	22"	
500888	1	3"	22"	
500890	1	3-½"	22"	
500892	1	4"	22"	
500894	1	2-½"	24"	
500896	1	3"	24"	
500898	1	3-½"	24"	
500900	1	4"	24"	


POSITIONER,
for socket adapter Ø 1/2" - 1"

Part #		for part	
50268	1	50008-50010-50012	


FRONTAL HANDLE,
for PAE 125

Part #		for part	
50131	1	50117-A	


REDUCTION JAW KIT FOR CTM FUSIO-TECHNIK,

Part #		pipe Ø	for part	
50168	1	20 ~ 63	50090	


TRUCK,
to transport CTR PRISMA 125

Part #		for part	
50206	1	50093-A	


TRIPOD,
for supporting pipes

Part #		for part	
50249	1	50093-A	

Figure

Description



ALIGNER 63-180,

two support braces, to align and support PP-R pipes during electrofusion welding from Ø 2" to 6"; four different working positions (45°, 90°, "in line" and Tee welding)

Part #		pipe Ø	
50475	1	2" ~ 6"	



ALIGNER 125-500,

two support braces, to align and support PP-R pipes during electrofusion welding from Ø 4" to 20"; four different working positions (45°, 90°, "in line" and Tee welding)

Part #		pipe Ø	
50477	1	4" ~ 20"	



SCRAPER,

to prepare PP-R pipes head for electro-welding

Part #			
50479	1		



ROTARY SCRAPER 160,

complete with service spanners, spare blade and case

Part #		A	B	
50320	1	2"-6"	1-½"- 6"	

A:
external working range

B:
internal working range

ROTARY SCRAPER 315,

complete with service spanners, spare blade and case

Part #		A	B	
50322	1	3"- 12-¾"	2-¼" - 11-¾"	

ROTARY SCRAPER 710,

complete with service spanners, spare blade and case

Part #		A	B	
50324	1	14" - 28"	11-¾" - 26-½"	



CLEANER,

to clean holes and pipes heads

Part #			
50200	1		



CLEANING LIQUID,

for welding electric couplings

Part #		Desc.	
50330	1	33.81 oz.	



EXTENDER,
to support pipe, max height 50- $\frac{3}{8}$ "

Part #			for part	
50124	1		50126	



TRIPOD,
for extension pipe support

Part #			for part	
50126	1		50124	



WORKBENCH

Part #			H	L	W	
50121	1		34- $\frac{3}{8}$ "	23- $\frac{5}{8}$ "	31- $\frac{7}{8}$ "	



CUTTER CM 26 PLUS,
precision shear to cut plastic and multilayer pipes

Part #			pipe Ø	
50276	1	30	$\frac{1}{2}$ "	



CUTTER CM 40 PLUS,
jack precision shear to cut plastic and multilayer pipes

Part #			pipe Ø	
50278	1	16	$\frac{1}{2}$ " - 1- $\frac{1}{4}$ "	



MEDIUM CUTTER,
to cut plastic and multilayer pipes

Part #			pipe Ø	
50280	1	20	$\frac{1}{2}$ " ~ 1- $\frac{1}{4}$ "	



PIPE CUTTER,
to cut plastic and multilayer pipes

Part #			pipe Ø	
50289	1		$\frac{1}{2}$ " ~ 2"	



PIPE CUTTER,
to cut plastic and multilayer pipes

Part #			pipe Ø	
50292	1		1- $\frac{1}{2}$ " ~ 3- $\frac{1}{2}$ "	
50297	1		3- $\frac{1}{2}$ " ~ 4"	

Figure



Description

MILLER,
to prepare ring nut (part# 69314)

Part #		Desc.
50128	1	1"



a:
direct joint

b:
fusion outlet

MILLER,
for direct joint and saddle fusion-outlet, for PP-R pipe

Part #		connection	outlet Ø	for pipe	SDR
50346	1	a	1/2"	1-1/4" ~ 8"	6 - 17.6
50346A	1	a	1/2"	10" ~ 16"	11 - 17.6
50348	1	a	3/4"	1-1/4" ~ 8"	6 - 17.6
		b	1/2" - 3/4"		
50348A	1	a	3/4"	10" ~ 16"	11 - 17.6
		b	1/2" - 3/4"		
50352	1	b	1"	2" ~ 16"	6 - 17.6
50354	1	b	1-1/4"	3" ~ 16"	6 - 17.6
50356	1	b	1-1/2"	3-1/2" ~ 16"	6 - 17.6
50358	1	b	3"	4" ~ 16"	7.4 - 17.6
50360	1	b	2-1/2"	6" ~ 16"	11 - 17.6
50362	1	b	3"	6" ~ 16"	11 - 17.6
50364	1	b	3-1/2"	8" ~ 16"	11 - 17.6
50366	1	b	4"	8" ~ 16"	11 - 17.6



b:
fusion outlet

MILLER,
for fusio-outlets on PP-R pipes only using the UP 125 (cod. 50095)

Part #		connection	outlet Ø	for pipe	SDR
50378	1	b	1/2" - 3/4"	1-1/4" ~ 24"	6 - 17.6
50382	1	b	1"	2" ~ 24"	6 - 17.6
50384	1	b	1-1/4"	3" ~ 24"	6 - 17.6
50386	1	b	1-1/2"	3" ~ 24"	6 - 17.6
50388	1	b	2"	3-1/2" ~ 24"	6 - 17.6
50390	1	b	2-1/2"	6" ~ 24"	6 - 17.6
50392	1	b	3"	6" ~ 24"	6 - 17.6
50394	1	b	3-1/2"	8" ~ 24"	6 - 17.6
50396	1	b	4"	8" ~ 24"	6 - 17.6

Figure

Description



POLYFUSION WELDING MACHINE PAE 63,
electronic control, without case and accessories

Part #			
50113	1	for pipe	
		1/2" ~ 2"	



POLYFUSION WELDING MACHINE PAE 125,
with mechanical thermostat, without case and accessories, with a front handle included

Part #			
50219	1	for pipe	
		1/2" ~ 4"	



FORK SUPPORT,
for PAE 63 and PAE 125

Part #			
50133	1	for part	
		50111-50117-50113-50219	



SUPPORT CLAMP,
for polyfusion machine PAE 63 and PAE 125

Part #			
50135	1	for part	
		50111-50117-50113-50219	



JAWS FOR CTR PRISMA 125,
pipe side

Part #			
50165	1	for part	
		50093	



JAWS FOR CTR PRISMA 125,
fitting side

Part #			
50166	1	for part	
		50093	



JAWS CTM FUSIO-TECHNIK,
for welding on-site, fitting side

Part #			
50170	1	for pipe	
		2" ~ 4"	

Figure



Description

SUPPORT FEET,
for CTR PRISMA 125

Part #		for part	
50248	1	50093	



CASE,
of metal

Part #		for part	
50523	1	50111	
50527	1	50117	



ROLLER,
for pipe cutter

Part #		for part	
50293	1	50289	
50295	1	50292-50297	



BLADE,
for shear

Part #		for part	
50298	1	50280	
50300	1	50276	
50301	1	50278	

WORKING CONDITIONS

Sanitary

* SF= Safety factor

Note 2:
values in the table are approved
by IIP (Istituto Italiano dei Plastici).

* Applicable working conditions only
with the prior approval of Aquatechnik
Technical Management



* Applicable working conditions only with
the prior approval of Aquatechnik Technical
Management

Temperature	Years of operation	FIBER-T	FIBER-COND	FIBER-LIGHT
		SDR 7.4/*SF 1.5	SDR 11/*SF 1.5	SDR 17.6/*SF 1.5
		psi	psi	psi
50°F / 10°C	10	443	278	168
	25	434	273	164
	50	429	270	162
	100	420	264	159
70°F / 21°C	10	384	242	145
	25	376	236	142
	50	370	233	140
	100	365	229	138
90°F / 32°C	10	331	208	125
	25	326	205	123
	50	320	201	121
	100	315	198	119
100°F / 38°C	10	309	194	117*
	25	301	189	114*
	50	295	186	112*
	100	290	182	110*
120°F / 49°C	10	262	165	99*
	25	256	161	97*
	50	251	158	95*
	100	248	156	94*
140°F / 60°C	10	223	140*	84*
	25	217	137*	82*
	50	212	133*	80*
	100	209	131*	79*
160°F / 71°C	10	187	117*	71*
	25	181	114*	69*
	50	175	110*	66*
180°F / 82°C	10	153	96*	58*
	25	150	95*	57*
203°F / 95°C	5	125	79*	47*
	10	123	77*	46*

PAY ATTENTION!

Continuously disinfecting potable water chemically must be done with a maximum concentration of 0.2 mg/l of free chlorine. The water temperature must not exceed 158°F/ 70°C. There are new types of treatments available consisting of chlorine dioxide and monochloramine. In case of higher free chlorine concentrations or in the case of the use of chlorine dioxide or monochloramines, the applicability of regression analysis must be evaluated in advance, we therefore recommend consulting our Technical Department.

Note: for segment fittings derived from butt-welded pipe segments, the pressure reduction factor of 0.8 must be applied.

WORKING CONDITIONS

other kind of installations

* SF= Safety factor

Note 1:
for applications with chilled water
mixed with ethylene glycol or glycerine,
-4°F / -20°C limit temperature. In this
case, separate the lines from the circula-
tors with specific anti-vibration joints.



Temperature	Years of operation	FIBER-T	FIBER-COND	FIBER-LIGHT
		SDR 7.4 / *SF 1.25	SDR 11/*SF 1.25	SDR 17.6/*SF 1.25
		psi	psi	psi
50°F / 10°C	10	531	334	201
	25	521	328	197
	50	515	323	195
	100	505	317	191
70°F / 21°C	10	461	290	175
	25	451	284	171
	50	444	279	168
	100	438	275	166
90°F / 32°C	10	398	250	151
	25	391	246	148
	50	384	242	145
	100	378	237	143
100°F / 38°C	10	371	233	140
	25	361	227	137
	50	354	223	134
	100	348	218	132
120°F / 49°C	10	314	197	119
	25	307	193	116
	50	301	189	114
	100	297	187	113
140°F / 60°C	10	267	168	101
	25	261	164	99
	50	254	160	96
	100	251	158	95
160°F / 71°C	10	224	141	85
	25	217	137	82
	50	211	132	80
180°F / 82°C	10	184	116	70
	25	180	113	68
203°F / 95°C	5	150	95	57
	10	147	92	56

Note: for segment fittings derived from butt-welded pipe segments, the pressure reduction factor of 0.8 must be applied.

GENERAL TERMS AND CONDITIONS OF SALE

1. General provisions

- a) The terms and conditions indicated below form an integral part of the contracts concluded between the Vendor and the Buyer for the supply of the Vendor's products.
- b) These terms and conditions apply to all transactions concluded between the Vendor and the Buyer without the need for express reference to them or a specific agreement to that effect upon the conclusion of each individual transaction. Any different term or condition is applicable only if confirmed in writing by the Vendor.
- c) The Vendor reserves the right to amend, supplement or change these conditions, attaching these changes to the offers or to any correspondence sent in writing to the Buyer.
- d) With particular reference to price lists, the Vendor reserves the right to change them also during the relationship. In this case notification shall be made to the Buyer who is entitled to withdraw in writing within eight days from receipt. Should the right of withdrawal not be exercised, the new price list shall be considered accepted.

2. Offers and orders

- a) The offers of the Vendor are not to be considered binding, in particular with reference to quantities, prices and delivery terms.
- b) Orders placed by the Buyer are not considered accepted until they have been confirmed in writing by the Vendor. Should the Vendor not provide written confirmation of a verbally negotiated order, the issuing of the invoice by the Vendor or the execution of the order by the latter will constitute confirmation.
- c) Verbal or telephone orders and/or changes to orders must be confirmed in writing by the Buyer. On the contrary the Vendor assumes no responsibility for any errors or possible misunderstandings.

3. Prices and payment terms

- a) The prices of the Products are not VAT inclusive, which must be paid upon delivery or in accordance with the specific provisions indicated on the invoice. Upon acceptance of the order or invoice, the Vendor shall indicate the terms and methods of payment.
- b) Unless otherwise stated, taxes, duties, shipping costs, insurance, installation, training for the end user, after-sales service are not included in the prices. Prices are inclusive of packaging suitable for shipment.
- c) In addition to the other remedies allowed by the applicable law or by these general terms and conditions of sale, the Vendor reserves the right, without the need for specific formal notice, to apply default interest on the delayed payments pursuant to and in accordance with Italian Legislative Decree, 231/2002.
- d) In the event that the Buyer does not make the payment within the terms and according to the methods indicated by the Vendor or in the event that the Vendor's business is not conducted in accordance with normal business activities, intended as, without limitation whatsoever, the issuance of seizure orders or protested bills or when the payments have been delayed or bankruptcy proceedings have been initiated or requested, the Vendor, is entitled, at its sole discretion and without penalty and the defaulting Buyer waiving compensation for damages, to suspend or cancel further deliveries or to represent a demand arising from the business relationship as immediately due. Furthermore, the Vendor may in such cases request advance payments or a security deposit.
- e) The Buyer is not entitled to request any compensation, withholding or reduction except in the event that its application has in this regard been judicially or definitely accepted.

4. Terms of delivery

- a) Unless otherwise agreed in writing, any delivery term indicated is not binding on the Vendor. Unless otherwise agreed between the parties, the indicative delivery time is the one specified in the order confirmation.
- b) The Vendor reserves the right to make reasonable partial deliveries.
- c) The shipment of the goods is always carried out carriage forward, unless otherwise agreed between the Vendor and the Buyer. The goods shall always travel at the Buyer's risk. The Vendor is exempt from all responsibility

for shortage and/or failure. Shipments are made with the vehicle available at the time and the Buyer's indications are merely recommendations.

- d) Any liability for delivery resulting from force majeure or other unforeseeable events not attributable to the Vendor, including, without limitation, strikes, lockouts, provisions of the public administration, subsequent blockages of export or import possibilities, in consideration of their duration and of their scope, free the Vendor from the obligation to comply with any agreed delivery terms.
- e) The Vendor is not obliged to accept product returns, unless it has been expressly agreed in writing and in any case only carriage paid. Any costs incurred for this purpose shall be borne by the Buyer.

5. Duty of inspection and Product acceptance

- a) Upon taking delivery of the products, the Buyer shall immediately:
 - (i) verify the quantity and packaging of the products and record any objections in the delivery note;
 - (ii) perform a conformity check of the products with respect to what is indicated in the order confirmation and record any discrepancy in the delivery note.
- b) Any defects in the products delivered must be reported to the Buyer within eight days of delivery. Notification must be made in writing by e-mail/Certified Email/registered letter/fax and must clearly specify the type and amount of the alleged defects. Any notification carried out by telephone will not be accepted and shall not be effective for the purpose of the report. The Buyer agrees to make the disputed products available for inspection; said inspection shall be carried out by the Vendor or by an expert appointed thereby.
- c) Any discrepancies in the quantity of goods delivered with respect to the order will not give the right to terminate the contract or to suspend payments, but only to supplement the supply with the missing goods.
- d) As regards Aquatechnik branded products, the Buyer is obliged to allow access of the IIP Srl officers for tests and checks of conformity of the products with the standards.

6. Warranty terms

- a) The Vendor guarantees that the products are free from defects and comply with the technical specifications declared and that the Buyer declares to know.
- b) The warranty applies only to the products used for the purposes for which they are intended and in accordance with the specifications declared by the Vendor. Any improper use is to be considered prohibited. The warranty has the duration established by the law.
- c) The warranty will not be valid if the incident or malfunction depends on the incorrect or inappropriate application of the product, or if the same does not comply with the commissioning. Any changes or replacement of product parts not authorized by the Vendor, relieves the latter from civil and criminal liability, thus making the warranty void. The warranty does not cover the parts subject to normal wear.
- d) The warranty operates exclusively for products purchased directly from Aquatechnik Group Spa or its authorized distributors.

7. Limitations of liability

- a) The Vendor is not liable for any compensation required for contract breach or non-fulfilment for loss of profit borne by the Buyer as a result of the use, non-use or installation of the products in other products, except in cases of wilful misconduct or gross negligence of the Vendor. In any case, liability shall not extend to indirect, not foreseeable damages and in any case outside the grounds in which the product warranty can operate.
- b) The Vendor will do everything in its power to deliver the products within the terms agreed, but under no circumstances can be called to answer for damages directly or indirectly caused by the delayed execution of a contract or delayed delivery of the products.

8. Changes to catalogues, price lists, information and advertising material

The Vendor reserves the right to make any changes that may prove technically necessary to catalogues, price lists and information and advertising material, even without prior notice. However, the images contained in the catalogues, in the information and advertising material are indicative and not binding.

9. Confidentiality

The Buyer undertakes to keep confidential and not to disclose to third parties, where this is not strictly necessary for the legitimate use of the purchased goods, for the entire duration of the relationship and for a further three years from the delivery of the last supply of each product, any information or technical data concerning the products purchased, their operation or use, as well as any commercial-administrative information relating to the contract for the sale of the goods.

10. Intellectual property of Aquatechnik Group Spa

- a) The Buyer expressly acknowledges that the trademarks, trade names or other distinguishing marks affixed to the goods are the exclusive property of Aquatechnik Group Spa and may not be altered, changed, removed or cancelled in any way. The Buyer has the limited right to use trademarks, trade names or other distinguishing marks, as well as any other industrial property right or production and commercial know-how incorporated into the goods and which remains the exclusive property of Aquatechnik Group Spa, for the sole and limited purpose of reselling the goods. Any different use of Aquatechnik Group Spa's intellectual property by the Buyer, unless expressly granted by Aquatechnik Group Spa in writing, shall be understood as a breach by the Buyer of the aforementioned exclusive rights of Aquatechnik Group Spa, also in terms of contractual liability and, as such, will be properly prosecuted.
 - b) The documents, drawings, data and information (both in paper form and on electronic support) that should be delivered to the Buyer, remain the exclusive property of Aquatechnik Group Spa and form support for a better representation of the products and are indicative of the performance of the product itself. The Buyer undertakes not to reproduce them, disclose them to third parties and to also take the appropriate precautions against their own personnel in order to guarantee their protection.
-

11. Processing of personal data

The personal data of the Buyer will be processed in accordance with the provisions of Italian law (Legislative Decree no. 196/2003) and European (GDPR 2016) in force on the matter as per separate documentation that will be delivered and which the buyer will be required to sign.

12. Applicable law

The supply relationship will however be governed by Italian law.

13. Jurisdiction

- a) Any dispute arising between the parties as a result of the interpretation, validity or execution of these general terms and conditions of sale and related contracts concluded will be referred to the exclusive jurisdiction of the Court of Busto Arsizio.
- b) It is understood between the parties that only the Vendor, at its sole discretion, shall have the right to waive the jurisdiction of the exclusive court referred to in point a) to take legal action against the Buyer, at his domicile and before the competent Court.

14. Final provisions

The partial or total invalidity of individual provisions of these general terms and conditions does not affect the validity of the remaining provisions.

[illegible]

