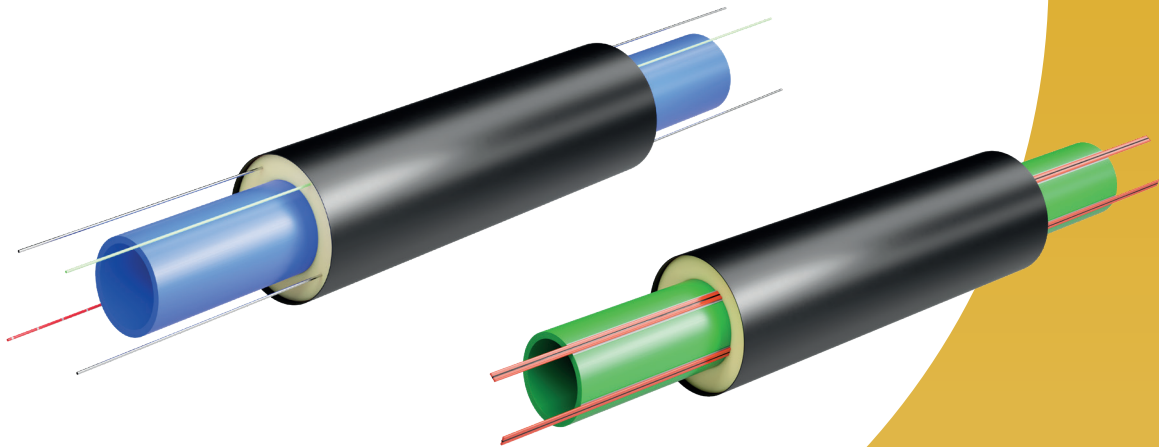


aquatherm energy leakage detection

with the systems Brandes & Wioniq



We are part of the solution__



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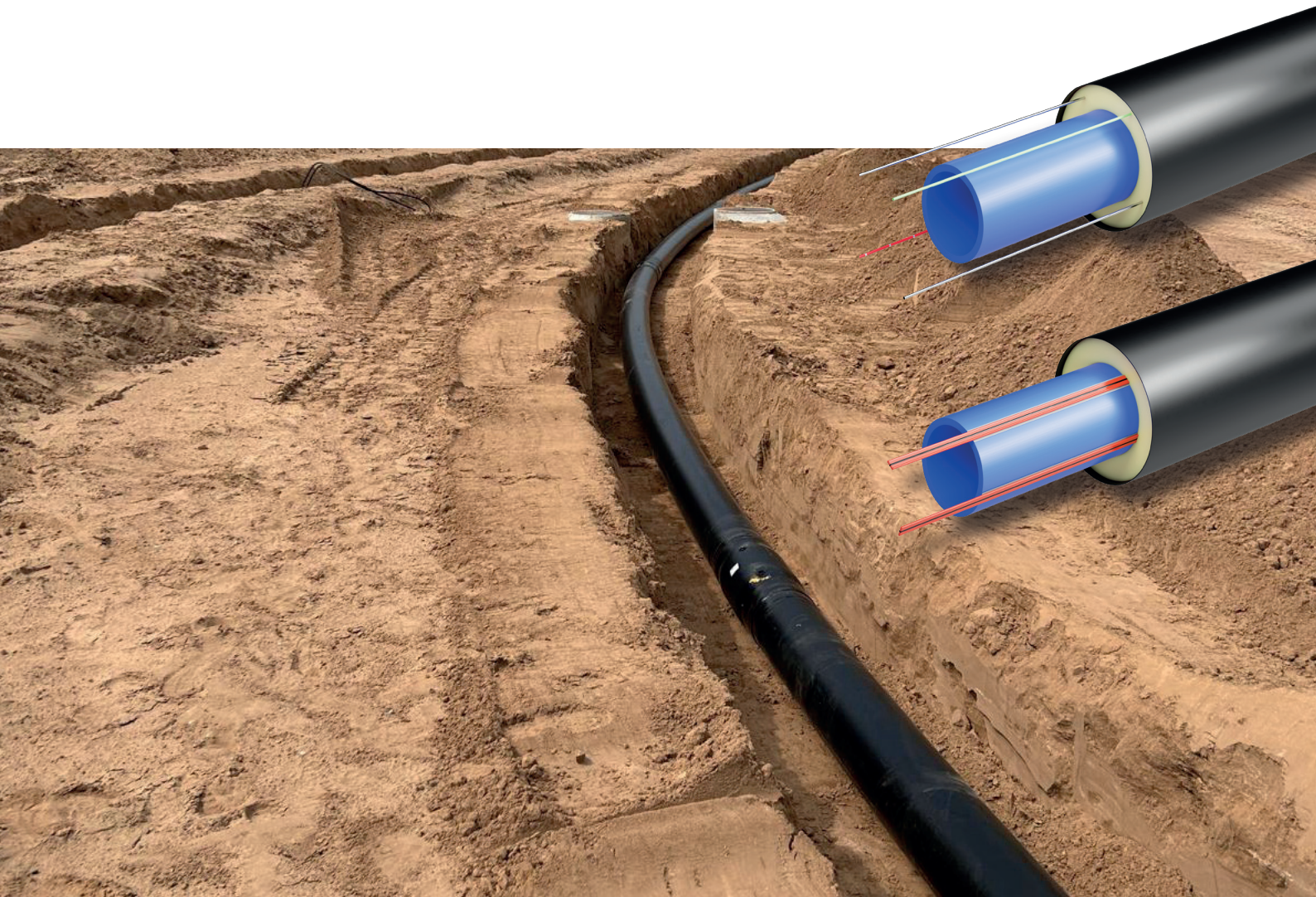
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AQUATHERM ENERGY leak detection

With our leak detection systems for aquatherm energy, we are setting new standards for the reliability of polypropylene plastic pipes in heating and cooling networks. We offer two systems, each of which uses signal transmission to locate leaks with pinpoint accuracy and automatically report them to the central monitoring unit. The Brandes GmbH system is installed in the insulation of the pipe system. The sensors from the manufacturer Wioniq are located directly on the pipe. These systems enable the early detection of leaks before they cause property damage, environmental damage, operational interruptions and high repair costs.

AQUATHERM ENERGY BLUE – The innovative piping system for energy applications

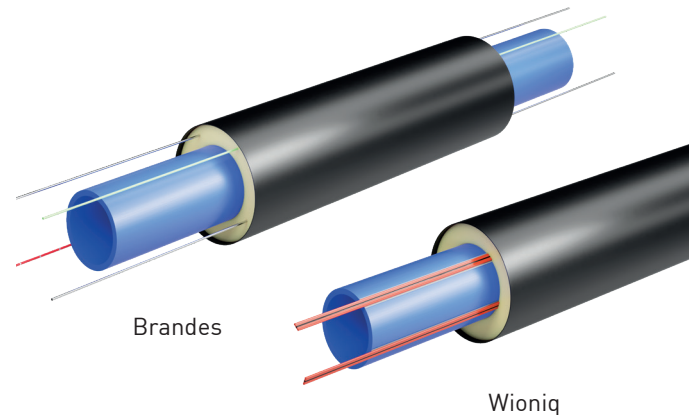
The aquatherm blue piping system was developed specifically for applications outside the drinking water supply. With the further development of aquatherm energy blue, we offer a system that combines the general advantages of a PP-RCT piping system with special properties tailored for energy applications.

Areas of application:

- Heating and cooling networks
- Geothermal energy
- Pipework installation for air conditioning and heating systems
- Plant engineering

Advantages of aquatherm energy blue:

- High temperature and pressure resistance
- Freedom from corrosion and incrustation
- Lightweight and easy to work with
- Long service life and high cost-effectiveness



AQUATHERM ENERGY BLUE OT – The next level

aquatherm energy blue OT is the next level in the aquatherm energy product family. This pipe is equipped with a diffusion barrier and meets the requirements of DIN 4726. This effectively prevents oxygen from entering the system – ideal for sensitive applications and long-term protection of system components.

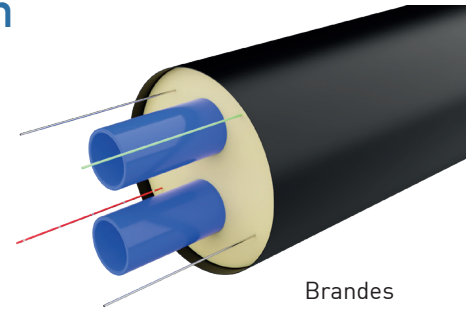


AQUATHERM ENERGY BLUE TWIN OT – The innovation

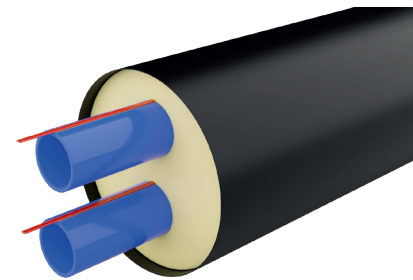
The innovative aquatherm energy blue twin OT double pipe system combines the advantages of the proven aquatherm energy blue pipe system in a single long-distance pipe. In combination with a diffusion barrier, it offers maximum safety and efficiency for demanding energy applications.

Safety & Innovation

In combination with our leak detection systems from Brandes and Wioniq, aquatherm energy blue ensures maximum operational reliability and enables rapid detection and localisation of potential leaks. It is the ideal solution for modern energy distribution - efficient, durable, and sustainable.



Brandes



Wioniq

AQUATHERM ENERGY GREEN – The innovative piping system for drinking water applications

The aquatherm green piping system was developed specifically for applications within the drinking water supply. With the further development of aquatherm energy green, we offer a system that combines the general advantages of a PP-RCT piping system with special properties for drinking water applications.

Areas of application:

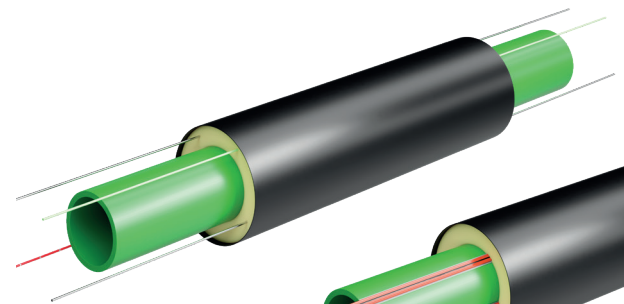
- Drinking water systems
- Plant engineering

Advantages of aquatherm energy green:

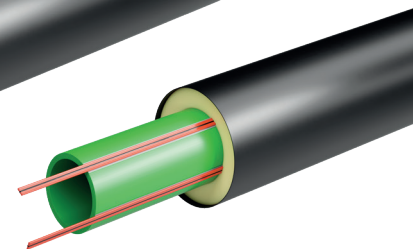
- High pressure resistance
- Resistant to corrosion and incrustation
- Lightweight and easy to work with
- Long service life and high cost-effectiveness

Safety & Innovation

In conjunction with our leak detection systems from Brandes and Wioniq, aquatherm energy green offers maximum operational reliability and enables early detection and precise localisation of potential leaks.



Brandes



Wioniq



PRODUCT TYPES

AQUATHERM ENERGY leakage detection – Overview

We offer aquatherm energy with leakage detection in various pipe diameters.

aquatherm energy green and blue with leakage detection

	outer medium pipe in mm	32	40	50	63	75	90	110	125	160	200	250	315	355
	outer jacket pipe in mm	90	110	110	125	140	160	200	225	250	315	400	450	500
aquatherm energy green SDR 9 MFRP		●	●	●	●	●	●	●	●	●	•	•	•	•
aquatherm energy blue SDR 9 MFRP		○	•	•	•	•	•	•	•	•	•	•	•	•
aquatherm energy blue SDR 9 MFRP OT		○	•	•	•	•	•	•	•	•	•	•	•	•
aquatherm energy blue SDR 11 MFRP		•	○	○	○	○	○	○	○	○	○	○	○	○
aquatherm energy blue SDR 11 MFRP OT		•	○	○	○	○	○	○	○	○	○	○	•	•
aquatherm energy blue SDR 17.6 MF RP		•	•	•	•	•	•	○	○	○	○	○	○	○

aquatherm energy twin with leakage detection

	outer medium pipe in mm	32	40	50	63	75	90	110	125
	outer jacket pipe in mm	180	200	200	250	280	315	400	500
aquatherm energy twin SDR 9 MF RP OT		○	•	•	•	•	•	•	•
aquatherm energy twin SDR 11 MF RP OT		•	○	○	○	○	○	○	○

Legend Table abbreviations (units in mm unless otherwise specified)

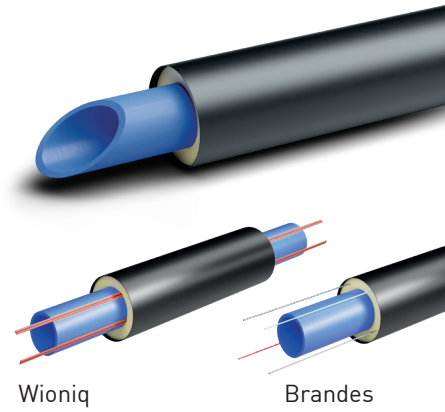
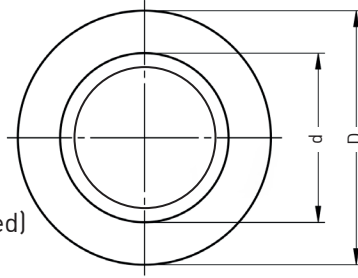
d	Diameter in mm	l/m	Water content in litres per metre	SDR	Standard Dimension Ratio (diameter/wall thickness ratio)
D	Diameter in mm	kg/m	Weight in kg per metre		
s	Wall thickness in mm	DN	Nominal diameter		
di	Clear width in mm	LE	Delivery unit in metres		



aquatherm energy blue MF RP

Fibre composite pipe with leak detection, as a single pipe in 5.8 m lengths with PUR rigid foam insulation and PE jacket pipe

MF = Fibre composite pipe (multi-layered, fibre-reinforced)
RP = Increased compressive strength
Material = fusiolen® PP-RCT
Colour = Blue



Wioniq

Brandes

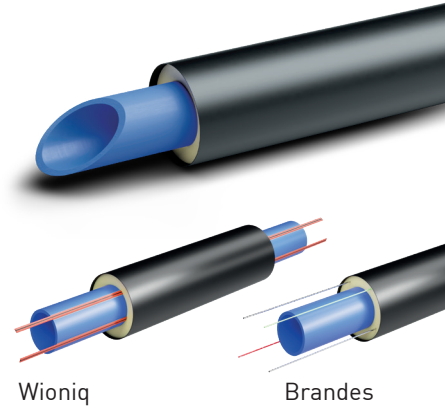
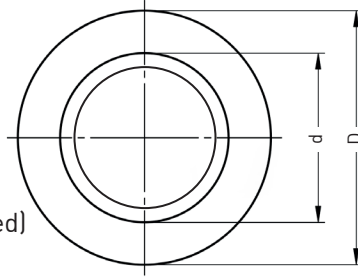
without leakage detection article no.	with leakage detection system Brandes article no.	system Wioniq article no.	outside diameter Ø		
			d	D	LE (m)
SDR 9					
Socket welding process					
2314032010	2314032011	2314032012	32	90	5,8
SDR 11					
Socket welding process					
2314040012	2314040013	2314040014	40	110	5,8
2314050014	2314050015	2314050016	50	110	5,8
2314063016	2314063017	2314063018	63	125	5,8
2314075018	2314075019	2314075020	75	140	5,8
2314090020	2314090021	2314090022	90	160	5,8
2314110022	2314110023	2314110024	110	200	5,8
2314125024	2314125025	2314125026	125	225	5,8
Butt welding process					
2314160026	2314160027	2314160028	160	250	5,8
2314200028	2314200029	2314200030	200	315	5,8
2314250030	2314250031	2314250032	250	400	5,8
2314315032	2314315033	2314315034	315	450	5,8
2314355034	2314355035	2314355036	355	500	5,8



aquatherm energy blue MF RP

Fibre composite pipe with leak detection, as a single pipe in 5.8 m lengths with PUR rigid foam insulation and PE jacket pipe

MF = Fibre composite pipe (multi-layered, fibre-reinforced)
RP = Increased compressive strength
Material = fusiolen® PP-RCT
Colour = Blue



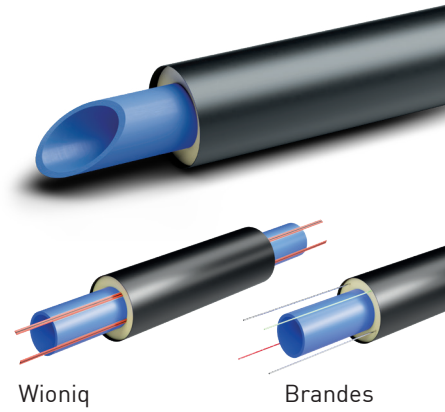
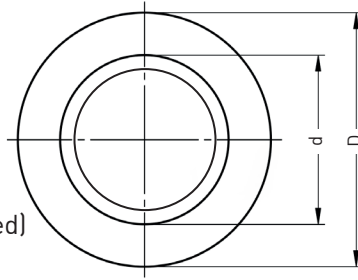
without leakage detection article no.	with leakage detection		outside diameter Ø		
	system Brandes article no.	system Wioniq article no.	d	D	LE (m)
SDR 17,6					
Socket welding process					
2317125024	2317125025	2317125026	125	225	5,8
Butt welding process					
2317160026	2317160027	2317160028	160	250	5,8
2317200028	2317200029	2317200030	200	315	5,8
2317250030	2317250031	2317250032	250	400	5,8
2317315032	2317315033	2317315034	315	450	5,8
2317355034	2317355035	2317355036	355	500	5,8



aquatherm energy blue MF RP

Fibre composite pipe with leak detection, as a single pipe in 11.6 m lengths with PUR rigid foam insulation and PE jacket pipe

MF = Fibre composite pipe (multi-layered, fibre-reinforced)
RP = Increased compressive strength
Material = fusiolen® PP-RCT
Colour = Blue



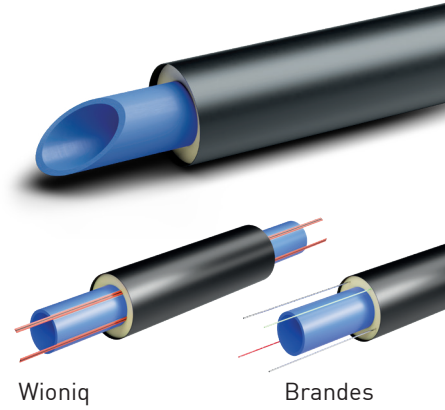
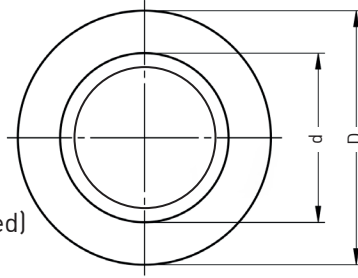
without leakage detection	with leakage detection		outside diameter Ø		
article no.	system Brandes article no.	system Wioniq article no.	d	D	LE (m)
SDR 9					
Socket welding process					
2314032110	2314032111	2314032112	32	90	11,6
SDR 11					
Socket welding process					
2314040112	2314040113	2314040114	40	110	11,6
2314050114	2314050115	2314050116	50	110	11,6
2314063116	2314063117	2314063118	63	125	11,6
2314075118	2314075119	2314075120	75	140	11,6
2314090120	2314090121	2314090122	90	160	11,6
2314110122	2314100123	2314110124	110	200	11,6
2314125124	2314125125	2314125126	125	225	11,6
Butt welding process					
2314160126	2314160127	2314160128	160	250	11,6
2314200128	2314200129	2314200130	200	315	11,6
2314250130	2314250131	2314250132	250	400	11,6
2314315132	2314315133	2314315134	315	450	11,6
2314355134	2314355135	2314355136	355	500	11,6



aquatherm energy blue MF RP

Fibre composite pipe with leak detection, as a single pipe in 11.6 m lengths with PUR rigid foam insulation and PE jacket pipe

MF = Fibre composite pipe (multi-layered, fibre-reinforced)
RP = Increased compressive strength
Material = fusiolen® PP-RCT
Colour = Blue



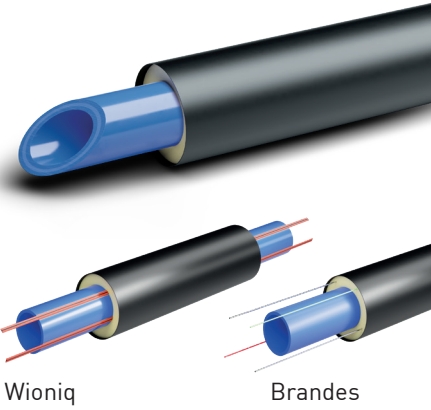
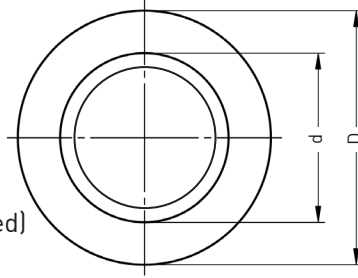
without leakage detection article no.	with leakage detection		outside diameter Ø		
	system Brandes article no.	system Wioniq article no.	d	D	LE (m)
SDR 17,6					
Socket welding process					
2317125124	2317125125	2317125126	125	225	11,6
Butt welding process					
2317160126	2317160127	2317160128	160	250	11,6
2317200128	2317200129	2317200130	200	315	11,6
2317250130	2317250131	2317250132	250	400	11,6
2317315132	2317315133	2317315134	315	450	11,6
2317355134	2317355135	2317355136	355	500	11,6



aquatherm energy blue MF RP OT

Fibre composite pipe with leak detection, as a single pipe in 5.8 m lengths with PUR rigid foam insulation and PE jacket pipe

MF = Fibre composite pipe (multi-layered, fibre-reinforced)
RP = Increased compressive strength
OT = Oxygen-tight
Material = fusiolen® PP-RCT
Colour = Blue

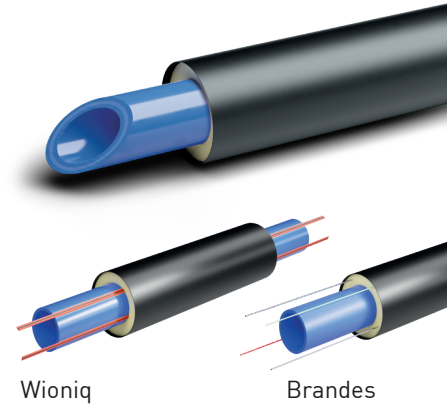
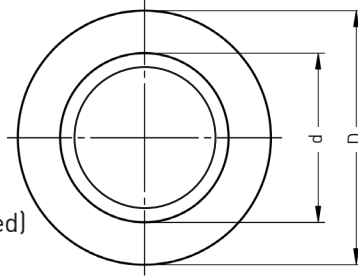


without leakage detection article no.	with leakage detection system Brandes article no.	system Wioniq article no.	outside diameter Ø		
			d	D	LE (m)
SDR 9					
Socket welding process					
2414032010	2413032011	2413032012	32	90	5,8
SDR 11					
Socket welding process					
2414040012	2414040013	2414040014	40	110	5,8
2414050014	2414050015	2414050016	50	110	5,8
2414063016	2414063017	2414063018	63	125	5,8
2414075018	2414075019	2414075020	75	140	5,8
2414090020	2414090021	2414090022	90	160	5,8
2414110022	2414110023	2414110024	110	200	5,8
2414125024	2414125025	2414125026	125	225	5,8
Butt welding process					
2414160026	2414160027	2414160028	160	250	5,8
2414200028	2414200029	2414200030	200	315	5,8
2414250030	2414250031	2414250032	250	400	5,8

**aquatherm energy blue MF RP OT**

Fibre composite pipe with leak detection, as a single pipe in 11.6 m lengths with PUR rigid foam insulation and PE jacket pipe

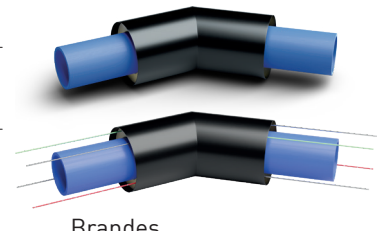
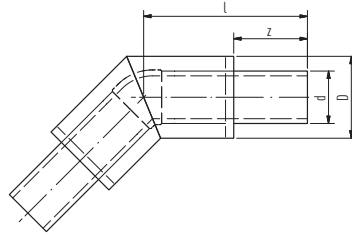
MF = Fibre composite pipe (multi-layered, fibre-reinforced)
 RP = Increased compressive strength
 OT = Oxygen-tight
 Material = fusiolen® PP-RCT
 Colour = Blue



without leakage detection	with leakage detection		outside diameter Ø		
article no.	system Brandes article no.	system Wioniq article no.	d	D	LE (m)
SDR 9					
Socket welding process					
2414032110	2414032111	2414032112	32	90	11,6
SDR 11					
Socket welding process					
2414040112	2414040113	2414040114	40	110	11,6
2414050114	2414050115	2414050116	50	110	11,6
2414063116	2414063117	2414063118	63	125	11,6
2414075118	2414075119	2414075120	75	140	11,6
2414090120	2414090121	2414090122	90	160	11,6
2414110122	2414110123	2414110124	110	200	11,6
2414125124	2414125125	2414125126	120	225	11,6
Butt welding process					
2414160126	2414160127	2414160128	160	250	11,6
2414200128	2414200129	2414200130	200	315	11,6
2414250130	2414250131	2414250132	250	400	11,6

**aquatherm energy MF RP bend 45° SL 500**

with PUR rigid foam insulation and PE casing pipe

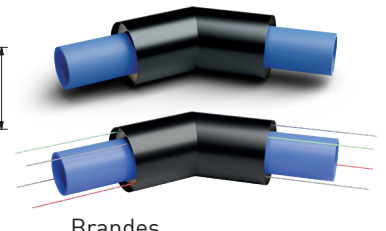
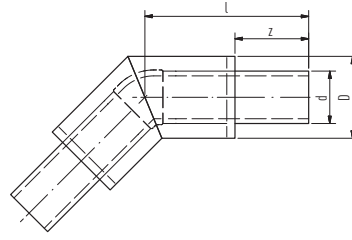


Brandes

without leakage detection article no.	with leakage detection system Brandes article no.	outside diameter Ø		z	l	kg
		d	D			
SDR 9						
Socket welding process						
2384032060	2384032760	32	90	225	500	1,02
SDR 11						
Socket welding process						
2384110061	2384110761	40	110	225	500	1,49
2384050062	2384050762	50	110	225	500	1,72
2384063063	2384063763	63	125	225	500	2,34
2384075064	2384075764	75	140	225	500	2,98
2384090065	2384090765	90	160	225	500	4,15
2384110066	2384110766	110	200	225	500	6,30
2384125067	2384125767	125	225	225	500	7,85
Butt welding process						
2384160069	2384160769	160	250	225	500	10,00
2384200071	2384200771	200	315	225	500	14,80
2384250073	2384250773	250	400	225	500	24,88
2384315075	2384315775	315	450	225	500	38,78
2384355077	2384355777	355	500	225	500	50,24

**aquatherm energy MF RP bend 45° SL 500**

with PUR rigid foam insulation and PE casing pipe



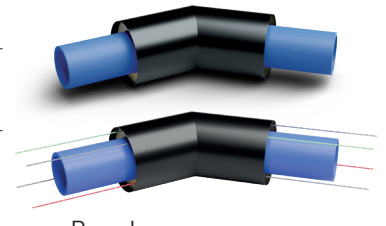
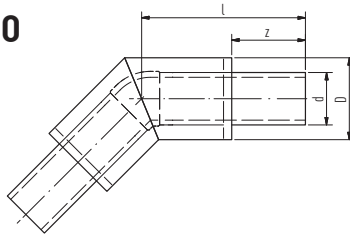
Brandes

without leakage detection with leakage detection

article no.	system Brandes article no.	outside diameter Ø		z	l	kg
		d	D			
SDR 17,6						
Socket welding process						
2387125068	2387125768	125	225	225	500	6,31
Butt welding process						
2387160070	2387160770	160	250	225	500	7,23
2387200072	2387200772	200	315	225	500	11,16
2387250074	2387250774	250	400	225	500	18,81
2387315076	2387315776	315	450	225	500	28,52
2387355078	2387355778	355	500	225	500	31,11

aquatherm energy MF RP OT bend 45° SL 500

with PUR rigid foam insulation and PE casing pipe



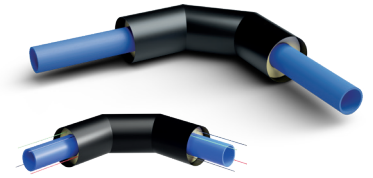
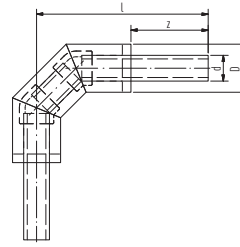
Brandes

without leakage detection with leakage detection

article no.	system Brandes article no.	outside diameter Ø		z	l	kg
		d	D			
SDR 9						
Socket welding process						
2480032001	2480032701	32	90	225	500	1,23
SDR 11						
Socket welding process						
2480040002	2480040702	40	110	225	500	1,53
2480050003	2480050703	50	110	225	500	1,81
2480063004	2480063704	63	125	225	500	2,45
2480075005	2480075705	75	140	225	500	3,03
2480090006	2480090706	90	160	225	500	4,29
2480110007	2480110707	110	200	225	500	6,38
2480125008	2480125708	125	225	225	500	8,17
Butt welding process						
2484160009	2484160709	160	250	225	500	10,15
2484200010	2484200710	200	315	225	500	15,34
2484250011	2484250711	250	400	225	500	25,85

**aquatherm energy MF RP bend 90° SL 500**

with PUR rigid foam insulation and PE casing pipe



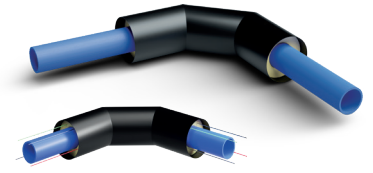
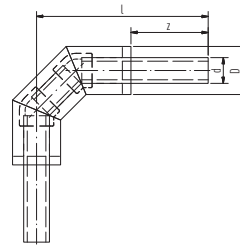
Brandes

without leakage detection with leakage detection

article no.	system Brandes	outside diameter Ø			l	kg
	article no.	d	D	z		
SDR 9						
Socket welding process						
2384032081	2384032781	32	90	225	500	1,00
SDR 11						
Socket welding process						
2384040083	2384040783	40	110	225	500	1,50
2384050085	2384050785	50	110	225	500	1,66
2384063087	2384063787	63	125	225	500	2,50
2384075089	2384075789	75	140	225	500	3,00

aquatherm energy MF RP OT bend 90° SL 500

with PUR rigid foam insulation and PE casing pipe



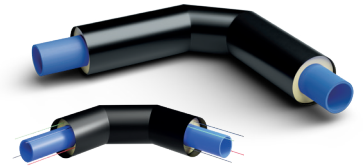
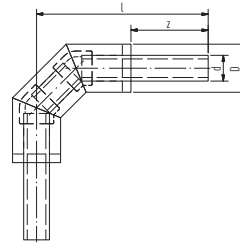
Brandes

without leakage detection with leakage detection

article no.	system Brandes	outside diameter Ø			l	kg
	article no.	d	D	z		
SDR 9						
Socket welding process						
2480032021	2480032721	32	90	225	500	1,26
SDR 11						
Socket welding process						
2480040023	2480040723	40	110	225	500	1,37
2480050025	2480050725	50	110	225	500	1,67
2480063027	2480063727	63	125	225	500	2,40
2480075029	2480075729	75	140	225	500	3,50

**aquatherm energy MF RP bend 90° SL 1000**

with PUR rigid foam insulation and PE casing pipe



Brandes

without leakage detection with leakage detection

outside diameter Ø

article no.	system Brandes article no.	d	D	z	l	kg
-------------	----------------------------	---	---	---	---	----

SDR 9

Socket welding process

2380032080	2380032780	32	90	225	1000	2,76
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SDR 11

Socket welding process

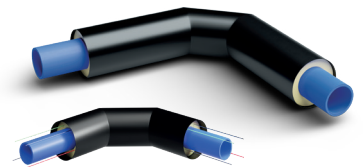
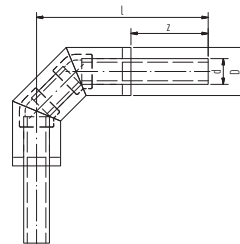
2380040082	2380040782	40	110	225	1000	3,50
2380050084	2380050784	50	110	225	1000	4,10
2380063086	2380063786	63	125	225	1000	5,50
2380075088	2380075788	75	140	225	1000	6,45
2380090090	2380090790	90	160	225	1000	8,80
2380110091	2380110791	110	200	225	1000	13,46
2380125092	2380125792	125	225	225	1000	16,50

Butt welding process

2384160094	2384160794	160	250	225	1000	21,20
2384200096	2384200796	200	315	225	1000	33,00
2384250098	2384250798	250	400	225	1000	49,50
2384315100	2384315700	315	450	225	1000	81,29
2384355102	2384355702	355	500	225	1000	101,18

aquatherm energy MF RP bend 90° SL 1000

with PUR rigid foam insulation and PE casing pipe



Brandes

without leakage detection with leakage detection

outside diameter Ø

article no.	system Brandes article no.	d	D	z	l	kg
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SDR 17,6

Socket welding process

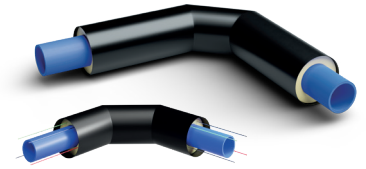
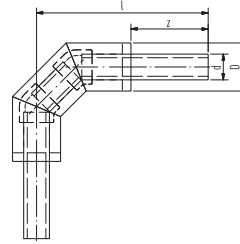
2387125093	2387125793	125	225	225	1000	12,89
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Butt welding process

2387160095	2387160795	160	250	225	1000	16,18
2387200097	2387200797	200	315	225	1000	26,10
2387250099	2387250799	250	400	225	1000	41,36
2387315101	2387315701	315	450	225	1000	61,75
2387355103	2387355703	355	500	225	1000	66,50

**aquatherm energy MF RP OT bend 90° SL 1000**

with PUR rigid foam insulation and PE casing pipe



Brandes

without leakage detection with leakage detection

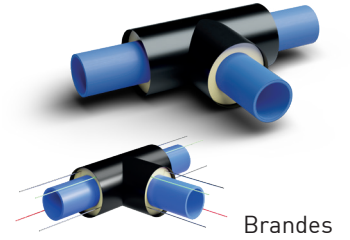
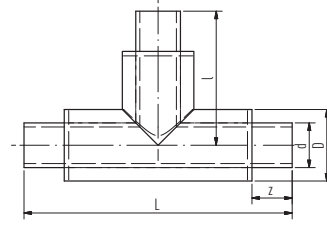
outside diameter Ø

article no.	system Brandes article no.	d	D	z	l	kg
SDR 9						
Socket welding process						
2480032020	2480032720	32	90	225	1000	2,86
SDR 11						
Socket welding process						
2480040022	2480040722	40	110	225	1000	3,48
2480050024	2480050724	50	110	225	1000	4,22
2480063026	2480063726	63	125	225	1000	5,38
2480075028	2480075728	75	140	225	1000	7,00
2480090030	2480090730	90	160	225	1000	9,50
2480110031	2480110731	110	200	225	1000	14,50
2480125032	2480125732	125	225	225	1000	17,00
Butt welding process						
2484160033	2484160733	160	250	225	1000	21,26
2484200034	2484200734	200	315	225	1000	34,73
2484250035	2484250735	250	400	225	1000	54,66



aquatherm energy MF RP branch

with PUR rigid foam insulation and PE casing pipe



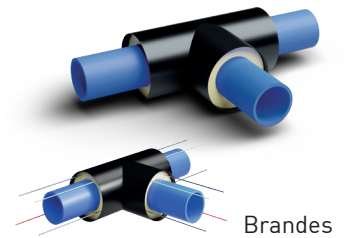
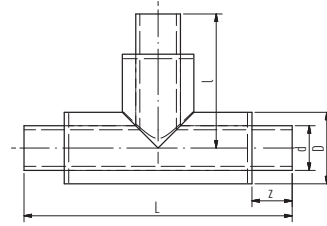
without leakage detection with leakage detection

outside diameter Ø

article no.	system Brandes article no.	d	D	z	l	kg	kg
SDR 9							
Socket welding process							
2360032001	2360032701	32	90	225	500	1000	1,51
SDR 11							
Socket welding process							
2360040002	2360040702	40	110	225	500	1000	2,11
2360050003	2360050703	50	110	225	500	1000	2,30
2360063004	2360063704	63	125	225	500	1000	3,26
2360075005	2360075705	75	140	225	500	1000	4,30
2360090006	2360090706	90	160	225	500	1000	5,77
2360110007	2360110707	110	200	225	500	1000	8,48
2360125008	2360125708	125	225	225	500	1000	11,17
Butt welding process							
2364160009	2364160709	160	250	225	500	1000	14,18
2364200010	2364200710	200	315	225	750	1500	35,60
2364250011	2364250704	250	400	225	750	1500	56,05
2364315012	2364315712	315	450	225	750	1500	81,30
2364355013	2364355713	355	500	225	750	1500	103,79

aquatherm energy MF RP branch

with PUR rigid foam insulation and PE casing pipe



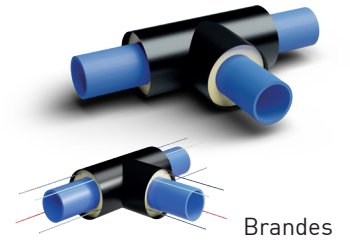
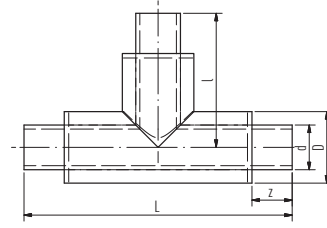
without leakage detection with leakage detection

outside diameter Ø

article no.	system Brandes article no.	d	D	z	l	kg	kg
SDR 17,6							
Socket welding process							
2367125040	2367125740	125	225	225	500	1000	9,39
Butt welding process							
2367160041	2367160741	160	250	225	500	1000	10,67
2367200042	2367200742	200	315	225	750	1500	27,32
2367250043	2367250743	250	400	225	750	1500	43,48
2367315044	2367315733	315	450	225	750	1500	60,43
2367355045	2367355743	355	500	225	750	1500	77,49

**aquatherm energy MF RP OT branch**

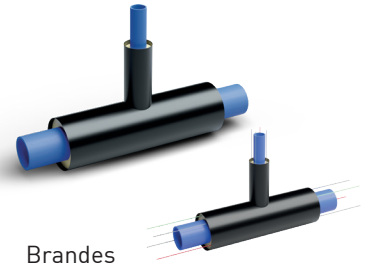
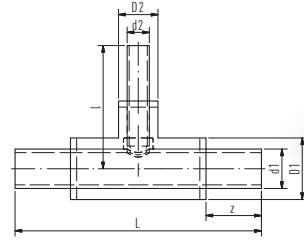
with PUR rigid foam insulation and PE casing pipe

**without leakage detection** **with leakage detection****outside diameter Ø**

article no.	system Brandes article no.	d	D	z	l	L	kg
SDR 9							
Socket welding process							
2460032001	2460032701	32	90	225	500	1000	1,72
SDR 11							
Socket welding process							
2460040002	2460040702	40	110	225	500	1000	2,04
2460050003	2460050703	50	110	225	500	1000	2,48
2460063004	2460063704	63	125	225	500	1000	3,44
2460075005	2460075705	75	140	225	500	1000	4,42
2460090006	2460090706	90	160	225	500	1000	5,87
2460110007	2460110707	110	200	225	500	1000	9,23
2460125008	2460125708	125	225	225	500	1000	11,78
Butt welding process							
2464160009	2464160707	160	250	225	500	1000	14,46
2464200010	2464200710	200	315	225	750	1500	36,83
2464250011	2464250711	250	400	225	750	1500	58,04

**aquatherm energy MF RP reducing branch**

with PUR rigid foam insulation and PE casing pipe

**without leakage detection** **with leakage detection**

article no.	system Brandes article no.	d1	d2	D1	D2	z	l	L	kg
SDR 11									
Socket welding process									
2360040060	2360040760	40	32	110	90	225	500	1000	2,00
2360050061	2360050761	50	32	110	90	225	500	1000	2,05
2360050062	2360050762	50	40	110	110	225	500	1000	2,24
2360063063	2360063763	63	32	125	90	225	500	1000	2,81
2360063064	2360063764	63	40	125	110	225	500	1000	2,96
2360063065	2360063765	63	50	125	110	225	500	1000	3,16
2360075066	2360075766	75	32	140	90	225	500	1000	3,51
2360075067	2360075767	75	40	140	110	225	500	1000	3,63
2360075068	2360075768	75	50	140	110	225	500	1000	3,83
2360075069	2360075769	75	63	140	125	225	500	1000	3,95
2360090070	2360090770	90	32	160	90	225	500	1000	4,70
2360090071	2360090771	90	40	160	110	225	500	1000	4,83
2360090072	2360090772	90	50	160	110	225	500	1000	4,92
2360090073	2360090773	90	63	160	125	225	500	1000	5,10
2360090074	2360090774	90	75	160	140	225	500	1000	5,55
2360110075	2360110775	110	32	200	90	225	500	1000	5,75
2360110076	2360110776	110	40	200	110	225	500	1000	5,82
2360110077	2360110777	110	50	200	110	225	500	1000	5,96
2360110078	2360110778	110	63	200	125	225	500	1000	7,17
2360110079	2360110779	110	75	200	140	225	500	1000	7,47
2360110080	2360110780	110	90	200	160	225	500	1000	7,80
2360125081	2360125781	125	32	225	90	225	500	1000	7,08
2360125082	2360125782	125	40	225	110	225	500	1000	7,23
Butt welding process									
2364160088	2364160788	160	32	250	90	225	500	1000	9,97
2364200096	2364200796	200	32	315	90	225	750	1500	25,12
2364250105	2364250705	250	32	400	90	225	750	1500	39,28
2364315115	2364315715	315	32	450	90	225	750	1500	56,10
2364355126	2364355726	355	32	500	90	225	750	1500	21,09

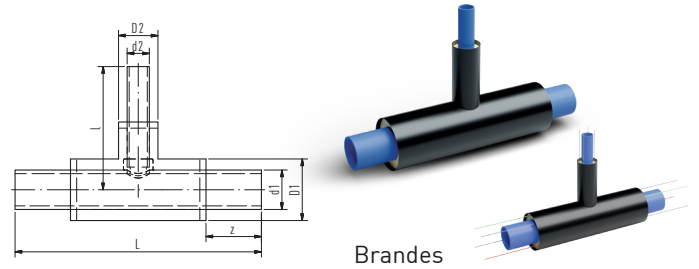
*Branch d2 32 mm SDR 9

Continued on the next page...

**aquatherm energy MF RP reducing branch**

(Continued)

with PUR rigid foam insulation and PE casing pipe



without leakage detection with leakage detection

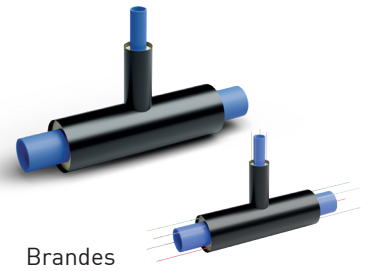
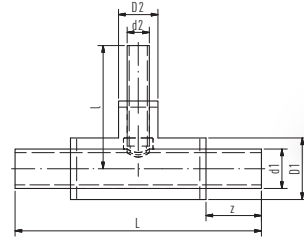
article no.	system Brandes article no.	d1	d2	D1	D2	z	l	L	kg
SDR 11									
Socket welding process									
2360125083	2360125783	125	50	225	110	225	500	1000	7,23
2360125784	2360125784	125	63	225	125	225	500	1000	7,40
2360125785	2360125785	125	75	225	140	225	500	1000	9,50
2360125786	2360125786	125	90	225	160	225	500	1000	9,80
2360125787	2360125787	125	110	225	200	225	500	1000	10,40
Butt welding process									
2364160089	2364160789	160	40	250	110	225	500	1000	10,12
2364160090	2364160790	160	50	250	110	225	500	1000	10,25
2364160091	2364160791	160	63	250	125	225	500	1000	10,50
2360160092	2360160792	160	75	250	140	225	500	1000	10,79
2364160093	2364160793	160	90	250	160	225	500	1000	11,30
2364160094	2364160794	160	110	200	200	225	750	1500	21,83
2364160095	2364160795	160	125	250	225	225	750	1500	21,56
2364200097	2364200797	200	40	315	110	225	750	1500	25,39
2364200098	2364200798	200	50	315	110	225	750	1500	25,55
2364200099	2364200799	200	63	315	125	225	750	1500	25,96
2364200100	2364200700	200	75	315	140	225	750	1500	26,42
2364200101	2364200701	200	90	315	160	225	750	1500	27,09
2364200102	2364200702	200	110	315	200	225	750	1500	28,48
2364200103	2364200703	200	125	315	225	225	750	1500	29,23
2364200104	2364200704	200	160	315	250	225	750	1500	34,77
2364250106	2364250706	250	40	400	110	225	750	1500	39,52
2364250107	2364250707	250	50	400	110	225	750	1500	39,69
2364250108	2364250708	250	63	400	125	225	750	1500	40,08
2364250109	2364250709	250	75	400	140	225	750	1500	40,49
2364250110	2364250710	250	90	400	160	225	750	1500	41,15
2364250111	2364250711	250	110	400	200	225	750	1500	42,43
2364250112	2364250712	250	125	400	225	225	750	1500	43,50
2364250113	2364250713	250	160	400	250	225	750	1500	53,82
2364250114	2364250714	250	200	400	315	225	750	1500	55,62

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**aquatherm energy MF RP reducing branch**

(Continued)

with PUR rigid foam insulation and PE casing pipe



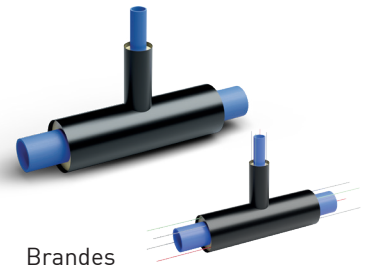
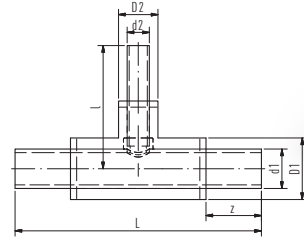
Brandes

without leakage detection with leakage detection

article no.	system Brandes article no.	d1	d2	D1	D2	z	l	L	kg
SDR 11									
Butt welding process									
2364315116	2364315716	315	40	450	110	225	750	1500	56,33
2364315117	2364315717	315	50	450	110	225	750	1500	56,49
2364315118	2364315718	315	63	450	125	225	750	1500	56,86
2364315119	2364315719	315	75	450	140	225	750	1500	57,26
2364315120	2364315720	315	90	450	160	225	750	1500	57,88
2364315121	2364315721	315	110	450	200	225	750	1500	59,05
2364315122	2364315722	315	125	450	225	225	750	1500	60,08
2364315123	2364315723	315	160	450	250	225	750	1500	61,42
2364315124	2364315724	315	200	450	315	225	750	1500	79,06
2364315125	2364315725	315	250	450	400	225	750	1500	81,75
2364355127	2364355727	355	40	500	110	225	750	1500	21,25
2364355128	2364355728	355	50	500	110	225	750	1500	21,26
2364355129	2364355729	355	63	500	125	225	750	1500	21,36
2364355130	2364355730	355	75	500	140	225	750	1500	21,50
2364355131	2364355731	355	90	500	160	225	750	1500	21,50
2364355132	2364355732	355	110	500	200	225	750	1500	22,24
2364355133	2364355733	355	125	500	225	225	750	1500	22,69
2364355134	2364355734	355	160	500	250	225	750	1500	22,94
2364355135	2364355735	355	200	500	315	225	750	1500	25,44
2364355136	2364355736	355	250	500	400	225	750	1500	32,50
2364355137	2364355737	355	315	500	450	225	750	1500	32,78

**aquatherm energy MF RP OT reducing branch**

with PUR rigid foam insulation and PE casing pipe

**without leakage detection** **with leakage detection**

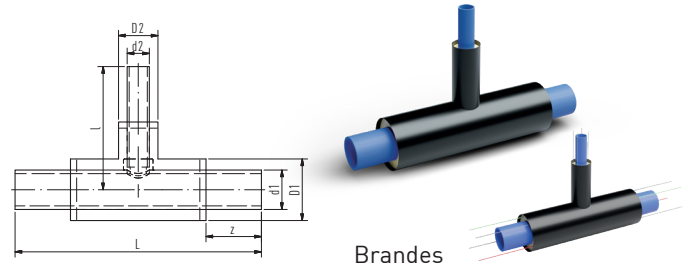
article no.	system Brandes article no.	d1	d2	D1	D2	z	l	L	kg
SDR 11									
Socket welding process									
2460040220	2460040720	40	32	110	90	225	500	1000	2,10
2460050221	2460050721	50	32	110	90	225	500	1000	2,37
2460050222	2460050722	50	40	110	110	225	500	1000	2,50
2460063223	2460063723	63	32	125	90	225	500	1000	3,00
2460063224	2460063724	63	40	125	110	225	500	1000	3,16
2460063225	2460063725	63	50	125	110	225	500	1000	3,33
2460075226	2460075726	75	32	140	90	225	500	1000	3,68
2460075227	2460075727	75	40	140	110	225	500	1000	3,80
2460075228	2460075728	75	50	140	110	225	500	1000	4,00
2460075229	2460075729	75	63	140	125	225	500	1000	4,22
2460090230	2460090730	90	32	160	90	225	500	1000	4,91
2460090231	2460090731	90	40	160	110	225	500	1000	5,02
2460090232	2460090732	90	50	160	110	225	500	1000	5,16
2460090233	2460090733	90	63	160	125	225	500	1000	5,45
2460090234	2460090734	90	75	160	140	225	500	1000	5,80
2460110235	2460110735	110	32	200	90	225	500	1000	6,05
2460110236	2460110736	110	40	200	110	225	500	1000	6,17
2460110237	2460110737	110	50	200	110	225	500	1000	6,32
2460110238	2460110738	110	63	200	125	225	500	1000	7,51
2460110239	2460110739	110	75	200	140	225	500	1000	7,81
2460110240	2460110740	110	90	200	160	225	500	1000	8,26
2460125241	2460125741	125	32	225	90	225	500	1000	7,53
2460125242	2460125742	125	40	225	110	225	500	1000	7,64
2460125243	2460125743	125	50	225	110	225	500	1000	7,65
2460125244	2460125744	125	63	225	125	225	500	1000	8,06
2460125245	2460125745	125	75	225	140	225	500	1000	9,66
2460125246	2460125746	125	90	225	160	225	500	1000	10,30
2460125247	2460125747	125	110	225	200	225	500	1000	11,03

*Branch d2 32 mm SDR 9

Continued on the next page...

**aquatherm energy MF RP OT reducing branch**

(Continued)
with PUR rigid foam insulation and PE casing pipe



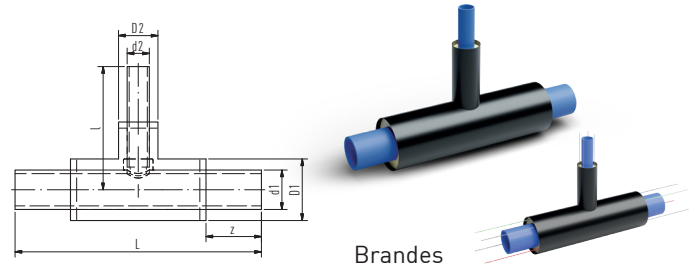
without leakage detection with leakage detection

article no.	system Brandes article no.	d1	d2	D1	D2	z	l	L	kg
SDR 11									
Butt welding process									
2464160248	2464160748	160	32	250	90	225	500	1000	10,50
2464160249	2464160749	160	40	250	110	225	500	1000	10,66
2464160250	2464160750	160	50	250	110	225	500	1000	10,80
2464160251	2464160751	160	63	250	125	225	500	1000	11,07
2464160252	2464160752	160	75	250	140	225	500	1000	11,35
2464160253	2464160753	160	90	250	160	225	500	1000	11,84
2464160254	2464160754	160	110	250	200	225	750	1500	22,68
2464160255	2464160755	160	125	250	225	225	750	1500	22,39
2464200256	2464200756	200	32	315	90	225	750	1500	25,98
2464200257	2464200757	200	40	315	110	225	750	1500	26,27
2464200258	2464200758	200	50	315	110	225	750	1500	26,44
2464200259	2464200759	200	63	315	125	225	750	1500	26,86
2464200260	2464200760	200	75	315	140	225	750	1500	27,33
2464200261	2464200761	200	90	315	160	225	750	1500	28,04
2464200262	2464200762	200	110	315	200	225	750	1500	29,50
2464200263	2464200763	200	125	315	225	225	750	1500	30,26
2464200264	2464200764	200	160	315	250	225	750	1500	35,97
2464250265	2464250765	250	32	400	90	225	750	1500	40,65
2464250266	2464250766	250	40	400	110	225	750	1500	40,93
2464250267	2464250767	250	50	400	110	225	750	1500	41,08
2464250268	2464250768	250	63	400	125	225	750	1500	41,49
2464250269	2464250769	250	75	400	140	225	750	1500	41,91
2464250270	2464250770	250	90	400	160	225	750	1500	42,61
2464250271	2464250771	250	110	400	200	225	750	1500	43,95
2464250272	2464250772	250	125	400	225	225	750	1500	45,06
2464250273	2464250773	250	160	400	250	225	750	1500	55,66
2464250274	2464250774	250	200	400	315	225	750	1500	57,47

*Branch d2 32 mm SDR 9

**aquatherm energy MF RP reducing branch**

(Continued)
with PUR rigid foam insulation and PE casing pipe



without leakage detection

with leakage detection

article no.	system Brandes article no.	d1	d2	D1	D2	z	l	L	kg
SDR 17,6									
Socket welding process									
2367125335	2367125735	125	32	225	90	225	500	1000	5,59
2367125336	2367125736	125	40	225	110	225	500	1000	5,55
2367125337	2367125737	125	50	225	110	225	500	1000	5,56
2367125338	2367125738	125	63	225	125	225	500	1000	6,11
2360125339	2367125739	125	75	225	140	225	500	1000	8,05
2367125340	2367160741	125	90	225	160	225	500	1000	8,60
2360125341		125	110	225	200	225	500	1000	9,34
Butt welding process									
2367160342	2367160742	160	32	250	90	225	500	1000	7,71
2367160343	2367160743	160	40	250	110	225	500	1000	7,85
2367160344	2367160744	160	50	250	110	225	500	1000	7,99
2367160345	2367160745	160	63	250	125	225	500	1000	8,24
2367160346	2367160746	160	75	250	140	225	500	1000	8,52
2367160347	2367160747	160	90	250	160	225	500	1000	8,99
2367160348	2367160748	160	110	250	200	225	750	1500	17,57
2367200350	2367200750	200	32	315	90	225	750	1500	19,61
2367200351	2367200751	200	40	315	110	225	750	1500	19,88
2367200352	2367200752	200	50	315	110	225	750	1500	20,04
2367200353	2367200753	200	63	315	125	225	750	1500	20,45
2367200354	2367200754	200	75	315	140	225	750	1500	20,90
2367200355	2367200755	200	90	315	160	225	750	1500	21,57
2367200356	2367200756	200	110	315	200	225	750	1500	22,97
2367250359	2367250759	250	32	400	90	225	750	1500	30,91
2367250360	2367250760	250	40	400	110	225	750	1500	31,15
2367250361	2367250761	250	50	400	110	225	750	1500	31,31
2367250362	2367250762	250	63	400	125	225	750	1500	31,70
2367250363	2367250763	250	75	400	140	225	750	1500	32,12
2367250364	2367250764	250	90	400	160	225	750	1500	32,78
2367250365	2367250765	250	110	400	200	225	750	1500	34,05
2367315369	2367315769	315	32	450	90	225	750	1500	42,19
2367315370	2367315770	315	40	450	110	225	750	1500	42,42
2367315371	2367315771	315	50	450	110	225	750	1500	42,58

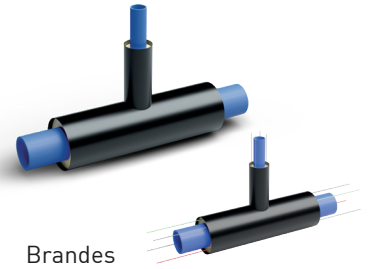
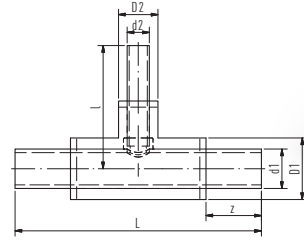
*Abzweig d2 SDR 11 / 40 mm - 12 mm SDR 11 / ab 160 mm SDR 17,6

Continued on the next page...

**aquatherm energy MF RP reducing branch**

(Continued)

with PUR rigid foam insulation and PE casing pipe

**without leakage detection with leakage detection**

article no.	system Brandes article no.	d1	d2	D1	D2	z	l	L	kg
SDR 11									
Butt welding process									
2367315372	2367315772	315	63	450	125	225	750	1500	42,95
2367315373	2367315773	315	75	450	140	225	750	1500	43,35
2367315374	2367315774	315	90	450	160	225	750	1500	43,97
2367315375	2367315775	315	110	450	200	225	750	1500	45,14
2367355380	2367355780	355	32	500	90	225	750	1500	53,66
2367355381	2367355781	355	40	500	110	225	750	1500	53,88
2367355382	2367355782	355	50	500	110	225	750	1500	53,98
2367355383	2367355783	355	63	500	125	225	750	1500	54,34
2367355384	2367355784	355	75	500	140	225	750	1500	54,78
2367355385	2367355785	355	90	500	160	225	750	1500	55,31
2367355386	2367355786	355	110	500	200	225	750	1500	56,44

SDR 17,6

Butt welding process

2367160349	2367160749	160	125	250	225	225	750	1500	18,03
2367200357	2367200757	200	125	315	225	225	750	1500	23,72
2367200358	2367200758	200	160	315	250	225	750	1500	27,13
2367250366	2367250766	250	125	400	225	225	750	1500	35,13
2367250367	2367250767	250	160	400	250	225	750	1500	42,55
2367250368	2367250768	250	200	400	315	225	750	1500	43,88
2367315376	2367315776	315	125	450	225	225	750	1500	46,17
2367315377	2367315777	315	160	450	250	225	750	1500	46,34
2367315378	2367315778	315	200	450	315	225	750	1500	60,43
2367315379	2367315779	315	250	450	400	225	750	1500	62,55
2367355387	2367355787	355	125	500	225	225	750	1500	56,89
2367355388	2367355788	355	160	500	250	225	750	1500	57,79
2367355389	2367355789	355	200	500	315	225	750	1500	61,72
2367355390	2367355790	355	250	500	400	225	750	1500	77,32
2367355391	2367355791	355	315	500	450	225	750	1500	78,48

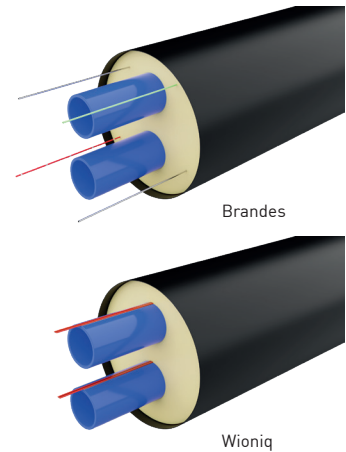
*Abzweig d2 SDR 11 / 40 mm - 12 mm SDR 11 / ab 160 mm SDR 17,6



aquatherm energy fibre composite pipe, aquatherm energy twin MF RP OT

Fibre composite pipe, as twin pipe in 5.8 m lengths with
PUR rigid foam insulation and PE jacket pipe

MF = Fibre composite pipe (multi-layered, fibre-reinforced)
RP = Increased compressive strength
OT = Oxygen-tight
Material = fusiolen® PP-RCT
Colour = Blue



without leakage detection article no.	with leakage detection		outside diameter Ø		
	system Brandes article no.	system Wioniq article no.	d	D	LE (m)
SDR 9					
Socket welding process					
2414032610	2414032612	2414032611	32	180	5,8
2414032710	2414032712	2414032711	32	180	11,6
SDR 11					
Socket welding process					
2414040612	2414040614	2414040613	40	200	5,8
2414040712	2414040714	2414040713	40	200	11,6
2414050614	2414050616	2414050615	50	200	5,8
2414050714	2414050716	2414050715	50	200	11,6
2414063616	2414063618	2414063617	63	250	5,8
2414063716	2414063718	2414063717	63	250	11,6
2414075618	2414075620	2414075619	75	280	5,8
2414075718	2414075720	2414075719	75	280	11,6
2414090620	2414090622	2414090621	90	315	5,8
2414090720	2414090722	2414090721	90	315	11,6
2414110622	2414110624	2414110623	110	400	5,8
2414125624	2414125625	2414125626	125	500	5,8



aquatherm energy green MF RP

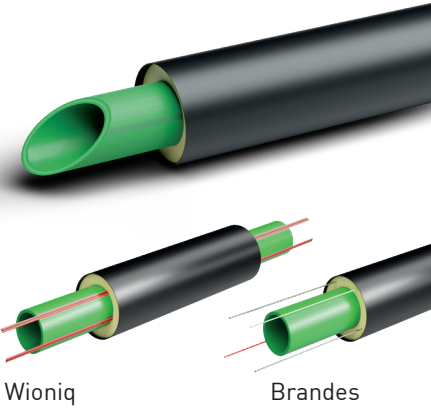
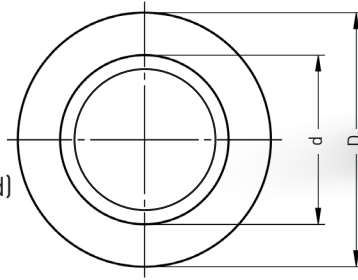
Fibre composite pipe with leakage detection, as a single pipe in 5.8 m lengths with PUR rigid foam insulation and PE jacket pipe

MF = Fibre composite pipe (multi-layered, fibre-reinforced)

RP = Increased compressive strength

Material = fusiolen® PP-RCT

Colour = Green



Wioniq

Brandes

without leakage detection article no.	with leakage detection system Brandes article no.	with leakage detection system Wioniq article no.	outside diameter Ø		
			d	D	LE (m)
SDR 9					
Socket welding process					
1313032010	1313032011	1313032012	32	90	5,8
1313040012	1313040013	1313040014	40	110	5,8
1313050014	1313050015	1313050016	50	110	5,8
1313063016	1313063017	1313063018	63	125	5,8
1313075018	1313075019	1313075020	75	140	5,8
1313090020	1313090021	1313090022	90	160	5,8
1313110022	1313110023	1313110024	110	200	5,8
1313125024	1313125025	1313125026	125	225	5,8
Butt welding process					
1313160026	1313160027	1313160028	160	250	5,8



aquatherm energy green MF RP

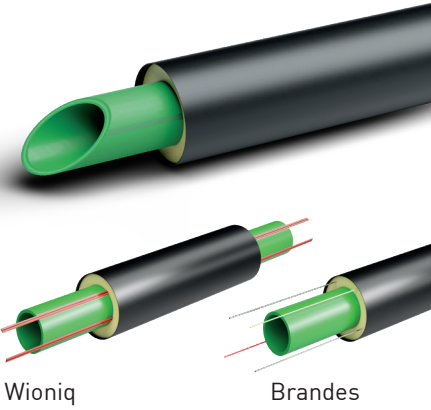
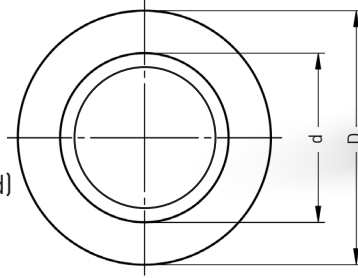
Fibre composite pipe with leakage detection, as a single pipe in 11.6 m lengths with PUR rigid foam insulation and PE jacket pipe

MF = Fibre composite pipe (multi-layered, fibre-reinforced)

RP = Increased compressive strength

Material = fusiolen® PP-RCT

Colour = Green



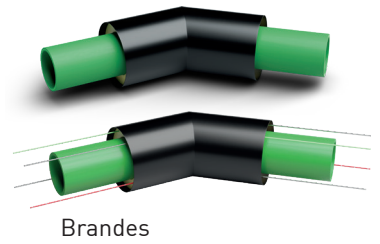
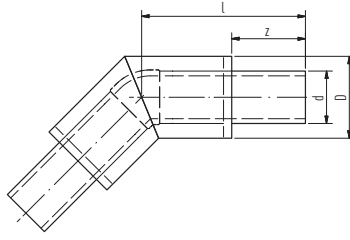
Wioniq

Brandes

without leakage detection article no.	with leakage detection system Brandes article no.	with leakage detection system Wioniq article no.	outside diameter Ø		
			d	D	LE (m)
SDR 9					
Socket welding process					
1313032110	1313032111	1313032112	32	90	11,6
1313040112	1313040113	1313040114	40	110	11,6
1313050114	1313050115	1313050116	50	110	11,6
1313063116	1313063117	1313063118	63	125	11,6
1313075118	1313075119	1313075120	75	140	11,6
1313090120	1313090121	1313090122	90	160	11,6
1313110122	1313110123	1313110124	110	200	11,6
1313125124	1313125125	1313125126	125	225	11,6
Butt welding process					
1313160126	1313160127	1313160128	160	250	11,6

**aquatherm energy MF RP bend 45° SL 500**

with PUR rigid foam insulation and PE casing pipe



without leakage detection with leakage detection
 article no. system Brandes
 article no.

outside diameter Ø

d

D

z

l

kg

SDR 9

Socket welding process

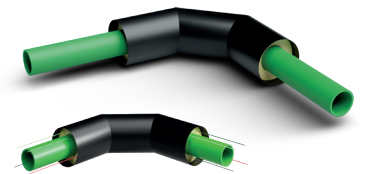
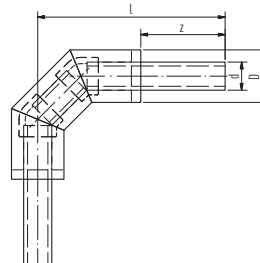
1383032001	1383032701	32	90	225	500	1,11
1383040002	1383040702	40	110	225	500	1,51
1383050003	1383050703	50	110	225	500	1,30
1383063004	1383063704	63	125	225	500	2,48
1383075005	1383075705	75	140	225	500	3,27
1383090006	1383090706	90	160	225	500	4,43
1383110007	1383110707	110	200	225	500	6,50
1383125008	1383125708	125	225	225	500	8,40

Butt welding process

1383160009	1383160709	160	250	225	500	11,57
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aquatherm energy MF RP bend 90° SL 500

with PUR rigid foam insulation and PE casing pipe



without leakage detection with leakage detection
 article no. system Brandes
 article no.

outside diameter Ø

d

D

z

l

kg

SDR 9

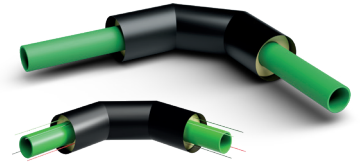
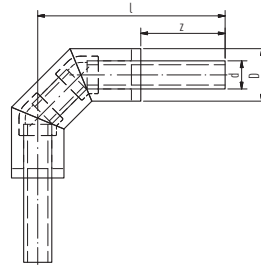
Socket welding process

1383032040	1383032740	32	90	225	500	1,12
1383040041	1383040741	40	110	225	500	1,43
1383050042	1383050742	50	110	225	500	1,81
1383063043	1383063743	63	125	225	500	2,51
1383075044	1383075744	75	140	225	500	3,29



aquatherm energy MF RP bend 90° SL 1000

with PUR rigid foam insulation and PE casing pipe

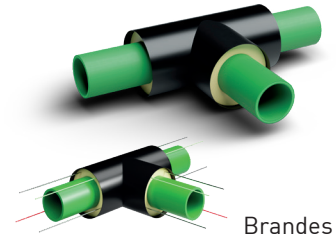
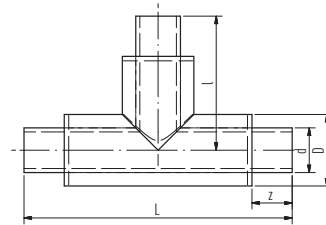


Brandes

without leakage detection	with leakage detection	outside diameter Ø				
article no.	system Brandes article no.	d	D	z	l	kg
SDR 9						
Socket welding process						
1383032020	1383032720	32	90	225	1000	2,58
1383040021	1383040721	40	110	225	1000	3,77
1383050022	1383050722	50	110	225	1000	4,29
1383063023	1383063723	63	125	225	1000	6,00
1383075024	1383075724	75	140	225	1000	7,34
1383090025	1383090725	90	160	225	1000	8,98
1383110026	1383110726	110	200	225	1000	14,52
1383125027	1383125727	125	225	225	1000	18,23
Butt welding process						
1383160028	1383160728	160	250	225	1000	24,11

aquatherm energy MF RP branch

with PUR rigid foam insulation and PE casing pipe



Brandes

without leakage detection	with leakage detection	outside diameter Ø					
article no.	system Brandes article no.	d	D	z	l	L	kg
SDR 9							
Socket welding process							
1363032001	1363032701	32	90	225	500	1000	1,63
1363040002	1363040702	40	110	225	500	1000	2,24
1363050003	1363050703	50	110	225	500	1000	2,50
1363063004	1363063704	63	125	225	500	1000	3,50
1363075005	1363075705	75	140	225	500	1000	4,71
1363090006	1363090706	90	160	225	500	1000	6,44
1363110007	1363110707	110	200	225	500	1000	9,32
1363125008	1363125708	125	225	225	500	1000	12,22
Butt welding process							
1363160009	1363160709	160	250	225	500	1000	16,03

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