GF Piping Systems

PE Systems

Building the lifelines of the world

Utility and Industry

Connections for life

GF Piping Systems is the leading flow solutions provider across the world. We enable the safe and sustainable transport of fluids. Our business is driven by maintaining industry-leading sustainability levels, innovating through digitally enabled solutions, and investing in a culture built on caring, learning, and performance.

Your partner for modern plastic piping systems

The plastic piping systems from GF Piping Systems are non-corrosive and do not need replacing throughout the system's entire service life. Therefore, they contribute to the increased reliability of the system while lowering maintenance costs and staff requirements. They are excellently suited for applications involving potable and sewage water, coolants, acids, leaches, and other chemicals, as well as abrasive compounds.

GF Piping Systems, founded more than 200 years ago in Switzerland, supports its customers both in the initial switch from metal to plastic and in retrofits – across all project phases. They benefit from more than 60 years of experience in plastic systems and application knowledge from 100 countries. With Specialized Solutions, GF Piping Systems supports the design and installation of state-of-the-art plastic piping systems, so that owners and planners can concentrate on their daily business without interruption. GF Piping Systems is present every step of the way, from the design phase all the way through to installation and maintenance.

Strong regional footprint

GF Piping Systems has been present in the Southeast Asian market since 1994, when the first office in the region was registered in Singapore. Today, with seven offices in five countries, production facilities in Malaysia and Indonesia and numerous regional partners across Southeast Asia, GF Piping Systems is committed to the region and ensures competent customer support and technical on-site training.

Sales / Representative office
Production facility
Distributors

GF Piping Systems Malaysia

We bring you clean water

Supplying the world with clean water is one of the major challenges of the 21st century. GF Piping Systems rises to this challenge by providing high quality piping systems. We develop and produce pipes, fittings, valves, flow measurement devices and fusion machines. These application-oriented system solutions allow transporting water, gas and industrial liquids safely and reliably. Whether in industry, utilities or building technology - GF Piping Systems has the right solution for you.

Innovation and technology

GF Piping Systems, through focussed research, is continually developing new products and technologies, setting new global standards in quality and performance for our customers.

All from one source

GF Piping Systems covers the growing demand for complete solutions from a single source in a wide range of applications.

Quality management

All system components are stringently tested in accredited test laboratories. Management and production procedures are certified to ISO 9001 and ISO 14001 to guarantee form, fit, function and compliance in whatever application they may be used throughout the world.

Sales and service — worldwide

Our local sales companies and representatives in over 100 countries provide one stop" shopping, including planning support, training and product availability.

Facts and figures

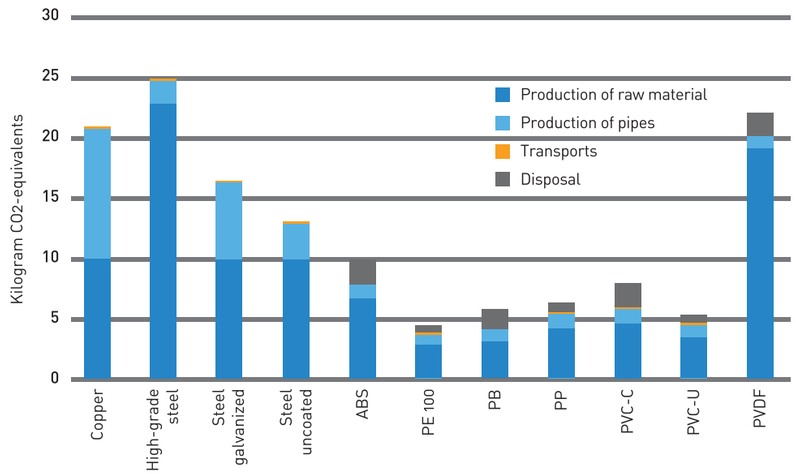
In 2021, GF Piping Systems with its 7'700 employees, 36 production sites and 31 sales companies achieved an annual turnover of 1.97 billion CHF respectively 2 billion USD. GF Piping Systems is part of the Georg Fischer Corporation.

Pioneering towards a green solutions

In focus: Plastics and metal

Climate change, the finiteness of fossil fuels and a rapidly rising demand for energy are among the challenges we face in the future.

For companies it will become even more important to offer products and solutions which match these challenges. For example, piping systems made of plastic cause less carbon dioxide emissions than metal piping systems. We offer complete plastic systems for nearly every application, whether in building technology, water treatment, cooling or other segments. Our plastic piping systems are leak proof, corrosion-resistant, lightweight and long-lived.



The added value of our solutions: plastics are greener" than metals

Plastic piping systems of Georg Fischer offered applications and dimensions almost ever have better results than competitive materials. In the case of PP-R the carbon dioxide emissions are roughly five times lower than those of a comparable steel pipe. This is the result of an study that focused on the ecological footprint of various piping materials.

Our devotion

The environment and nature form the foundation of our lives. For that reason, Georg Fischer considers the consumption of energy and resources as well as the production of air emissions to be major challenges for an industry devoted to people.

PE Systems

GF Polyethylene Pipes & Fittings is a high durability PE100 Polyethylene piping system and suitably used for conveying all types of liquids, slurries and gases. Some of the common applications include, main water supply, potable water pipelines, effluent transportation, and irrigation. Polyethylene is the preferred material for use in trenchless pipelines which are installed by directional drilling, slip lining and pipe bursting methods.

GF Polyethylene Pipe & Fittings preferred jointing method is heat fusion, Therefore Butt Fusion, Electrofusion and mechanical Joint is required. Polyethylene cannot be joined with adhesives or solvents. PE has many advantage over alternatives such as metal and rigid pipe materials, the more obvious ones being:

Long life

PE pipes are inert and hence, non-aging when operated within their design criteria. PE pipes have been installed for many years and have minimum life expectancy of more than 25 years when used in accordance with the relevant Standards.

Weather resistance

UV Protective additives such as carbon black as specified in AS/NZS 4130 and hindered amine light stabilisers (HALS) are added to minimise degradation. The use of carbon black as an added UV stabiliser greatly assists prolonging the life of pipe exposed to Ultra Violet Light; therefore black pipes dominate general use in above ground applications. Pipes of colour other than black should be protected from direct sunlight during storage, particularly if they are to be stored for more than 2 years.

Abrasion resistance

PE offers good resistance to abrasion and erosion form aggresive slurries which can rapidly damage steel or other traditional pipe materials.

Chemical resistance

PE is unaffected by both internal and external chemical attack by a wide range of acids, alkalis, ground water salts and other environmental factors.

Environmentally compatible

PE is an environmentally compatible hydrocarbon. Impact strength PE has excellent impact resistance which unlike many other polymers is retained at sub-zero temperatures.

Non toxic/Taint free

The formulation of GF PE contains no harmful metallic stabilizers, and it has been widely used for many years in piping systems for high water purity, medical preparations, food products and soft drinks. PE systems are ideal for portable cold water. They conform to World Health Organization and E.E.C requirements for portable water reticulation and distribution.

Exceptionally smooth bore

PE does not suffer from increased surfaces roughness or internal corrosion and provides a smooth bore for the life of piping system, internal corrosion also causes a reduced bore in steel systems which further inhabit flow. The smooth bore also inhabits the formation of scale.

Flexibility

In contrast to traditional piping materials, PE pipes are relatively flexible. This inherent flexibility can be used to time and labour saving advantage in handling and installation, particularly in designing underground piping layouts. Importantly also, PE pipes are not susceptible to shear breaks that can occur in rigid conduits such as cast iron and uPVC.

Long pipe lengths

Depending on the size of the pipe diameter, PE pipes can be supplied in long coil lengths, this means fewer pipe joins.

The Material Polyethylene (PE) Reference Values

	PE 100		
Characteristics	**Value *)**	**Units**	**Test Standard**
Density	0.95	g/cm^3	EN ISO 1183-1
Yield stress at 23°C	25	N/mm^2	EN ISO 527-1
Tensile e-modulus at 23°C	900	N/mm^2	EN ISO 527-1
Charpy notched impact strength at 23°C	83	kJ/m^2	EN ISO 179-1/1eA
Charpy notched impact strength at -40°C	13	kJ/m^2	EN ISO 179-1/1eA
Ball indentation hardness (132N)	37	MPa	EN ISO 2039-1
Crystallite melting point	130	°C	DIN 51007
Heat conductivity at 23°C	0.38	W/m K	EN 12664
Water absorption at 23°C	0.01 - 0.04	%	EN ISO 62
Colour	9005	-	RAL
Limiting oxygen index (LOI)	17.4	%	ISO 4589-1

*) Typical values measured on the material. These values should not be used for design purposes.

SDR/PN Conversions for PE100

SDR	41	33	26	21	17	13.6	11	9	7.4
PN for PE100	4 Bar	-	6 Bar	8 Bar	10 Bar	12.5 Bar	16 Bar	20 Bar	25 Bar

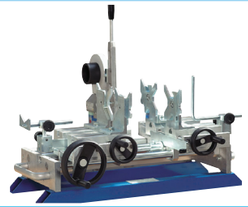
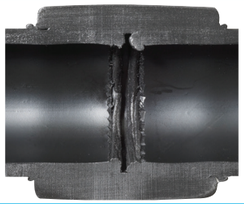
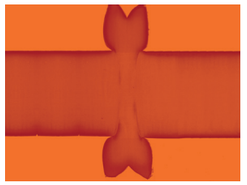
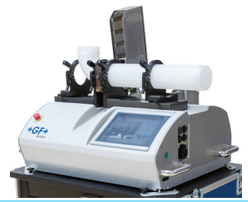
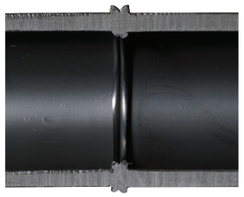
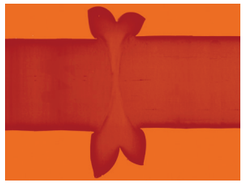
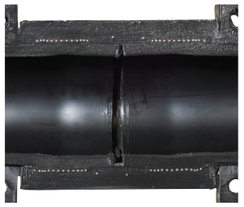
Building the lifelines of the world

GF Piping Systems offers the safe and reliable solutions for the transportation of water, chemicals, and gas. The maintenance-free and long-lived piping systems made of plastics help implement vital applications faster, more cost-effectively and more sustainably. GF Piping Systems supports its customers throughout all phases of their projects from planning to commissioning.

Convincing welding technologies

A diverse range of innovative and intelligent welding solutions enriched with global training and service offerings.

As a pioneer in the field, GF Piping Systems has always been placing a high priority on developing innovative jointing techniques to fulfill specific requirements and materials in use. Simplicity in application, chemical resistance, thermal stability and long-term weld strength are the key drivers in our jointing technologies. With a global jointing training program, international machine rental and a worldwide network of service centers, our customers benefit from expert know-how and practical experience.

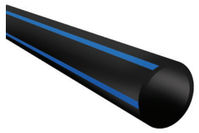
Welding technology	Welding machine	Joint cross-section	Macro-image
Socket fusion – the strong connection The strong, fast and easy solution to produce heavy-duty connections, in the workshop or the field.			
Butt fusion – the economical connection Economical and flexible fusion especially for bigger diameters. From manual machines to full CNC control with traceability.			
IR-Plus (Infrared) fusion – the fast, clean connection Fast, repeatable and clean welds via non-contact heating. Full traceability of the welding process, with user guidance.			
Electrofusion – the easy connection State-of-the-art semi-automatic technology, combined with a low weight, make the MSA-Plus machines perfect for on-site fusion.			

For more information about training courses from GF Piping Systems please contact our local sales companies.

PE Systems

Product Name

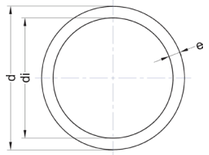
Pipes



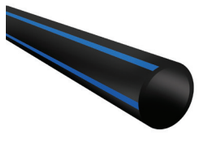
Pipe PE100 SDR26 PN6.3

Model:

- Material: PE100
- Black High Density Bimodal PE100 Polyethylene
- Accordance to ISO 4427, EN 12201, MS 1058
- Colour: black
- Other length requirement shall be specified by agreement between manufacturer and purchaser



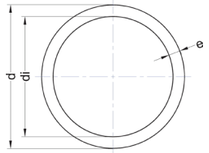
d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)	L (mm)
160	6.3	**300 202 040**	3.064	6.2	5.8
180	6.3	**300 202 041**	3.815	6.9	5.8
200	6.3	**300 202 042**	4.759	7.7	5.8
225	6.3	**300 202 043**	5.947	8.6	5.8
250	6.3	**300 202 044**	7.400	9.6	5.8
160	6.3	**300 202 001**	3.064	6.2	11.6
180	6.3	**300 202 002**	3.815	6.9	11.6
200	6.3	**300 202 003**	4.759	7.7	11.6
225	6.3	**300 202 004**	5.947	8.6	11.6
250	6.3	**300 202 005**	7.400	9.6	11.6



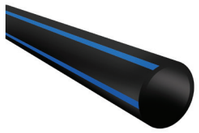
Pipe PE100 SDR21 PN8

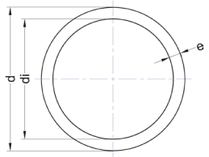
Model:

- Material: PE100
- Black High Density Bimodal PE100 Polyethylene
- Accordance to ISO 4427, EN 12201, MS 1058
- Colour: black
- Other length requirement shall be specified by agreement between manufacturer and purchaser



d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)	L (mm)
160	8	**300 202 045**	3.747	7.7	5.8
180	8	**300 202 046**	4.706	8.6	5.8
200	8	**300 202 047**	5.833	9.6	5.8
225	8	**300 202 048**	7.371	10.8	5.8
250	8	**300 202 049**	9.050	11.9	5.8
160	8	**300 202 006**	3.747	7.7	11.6
180	8	**300 202 007**	4.706	8.6	11.6
200	8	**300 202 008**	5.833	9.6	11.6
225	8	**300 202 009**	7.371	10.8	11.6
250	8	**300 202 010**	9.050	11.9	11.6



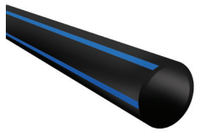


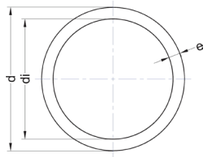
Pipe PE100 SDR17 PN10

Model:

- Material: PE100
- Black High Density Bimodal PE100 Polyethylene
- Certified to ISO 4427, EN 12201, MS 1058
- Colour: black
- Available length: 5.8m, 6m, 11.6m, 12m, 100m

d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)	L (mm)
32	10	**300 202 443**	0.199	2.0	5.8
40	10	**300 202 444**	0.295	2.4	5.8
50	10	**300 202 445**	0.454	3.0	5.8
63	10	**300 202 446**	0.731	3.8	5.8
75	10	**300 202 447**	1.020	4.5	5.8
90	10	**300 202 448**	1.467	5.4	5.8
110	10	**300 202 491**	2.180	6.6	5.8
125	10	**300 202 497**	2.780	7.4	5.8
140	10	**300 202 449**	3.495	8.3	5.8
160	10	**300 202 450**	4.562	9.5	5.8
180	10	**300 202 451**	5.769	10.7	5.8
200	10	**300 202 452**	7.121	11.9	5.8
225	10	**300 202 453**	9.058	13.4	5.8
250	10	**300 202 454**	10.536	14.8	5.8
32	10	**300 202 259**	0.199	2.0	6.0
40	10	**300 202 227**	0.295	2.4	6.0
50	10	**300 202 228**	0.454	3.0	6.0
63	10	**300 202 197**	0.731	3.8	6.0
75	10	**300 202 198**	1.020	4.5	6.0
90	10	**300 202 199**	1.467	5.4	6.0
110	10	**300 202 091**	2.180	6.6	6.0
125	10	**300 202 097**	2.780	7.4	6.0
140	10	**300 202 224**	3.495	8.3	6.0
160	10	**300 202 050**	4.562	9.5	6.0
180	10	**300 202 051**	5.769	10.7	6.0
200	10	**300 202 052**	7.121	11.9	6.0
225	10	**300 202 053**	9.058	13.4	6.0
250	10	**300 202 054**	10.536	14.8	6.0
90	10	**300 202 409**	1.467	5.4	11.6
110	10	**300 202 488**	2.180	6.6	11.6
125	10	**300 202 494**	2.780	7.4	11.6
140	10	**300 202 410**	3.495	8.3	11.6
160	10	**300 202 411**	4.562	9.5	11.6
180	10	**300 202 412**	5.769	10.7	11.6
200	10	**300 202 413**	7.121	11.9	11.6
225	10	**300 202 414**	9.058	13.4	11.6
250	10	**300 202 415**	10.536	14.8	11.6
90	10	**300 202 229**	1.467	5.4	12.0
110	10	**300 202 088**	2.180	6.6	12.0
125	10	**300 202 094**	2.780	7.4	12.0
140	10	**300 202 230**	3.495	8.3	12.0
160	10	**300 202 011**	4.562	9.5	12.0
180	10	**300 202 012**	5.769	10.7	12.0
200	10	**300 202 013**	7.121	11.9	12.0
225	10	**300 202 014**	9.058	13.4	12.0
250	10	**300 202 015**	10.536	14.8	12.0
32	10	**300 202 611**	0.199	2.0	100.0
40	10	**300 202 613**	0.295	2.4	100.0
50	10	**300 202 612**	0.454	3.0	100.0
63	10	**300 202 614**	0.731	3.8	100.0



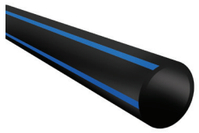


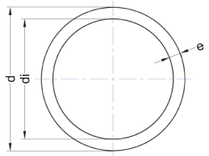
Pipe PE100 SDR13.6 PN12.5

Model:

- Material: PE100
- Black High Density Bimodal PE100 Polyethylene
- Certified to ISO 4427, EN 12201, MS 1058
- Colour: black
- Available length: 5.8m, 6m, 11.6m, 12m, 100m

d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)	L (mm)
25	12.5	**300 202 434**	0.153	2.0	5.8
32	12.5	**300 202 435**	0.232	2.4	5.8
40	12.5	**300 202 436**	0.368	3.0	5.8
50	12.5	**300 202 437**	0.558	3.7	5.8
63	12.5	**300 202 438**	0.878	4.7	5.8
75	12.5	**300 202 439**	1.254	5.6	5.8
90	12.5	**300 202 440**	1.780	6.7	5.8
110	12.5	**300 202 492**	2.640	8.1	5.8
125	12.5	**300 202 498**	3.417	9.2	5.8
140	12.5	**300 202 441**	4.260	10.3	5.8
160	12.5	**300 202 455**	5.561	11.8	5.8
180	12.5	**300 202 456**	7.079	13.3	5.8
200	12.5	**300 202 457**	8.653	14.7	5.8
225	12.5	**300 202 458**	10.993	16.6	5.8
250	12.5	**300 202 459**	13.537	18.4	5.8
25	12.5	**300 202 100**	0.153	2.0	6.0
32	12.5	**300 202 101**	0.232	2.4	6.0
40	12.5	**300 202 102**	0.368	3.0	6.0
50	12.5	**300 202 103**	0.558	3.7	6.0
63	12.5	**300 202 104**	0.878	4.7	6.0
75	12.5	**300 202 105**	1.254	5.6	6.0
90	12.5	**300 202 106**	1.780	6.7	6.0
110	12.5	**300 202 107**	2.640	8.1	6.0
125	12.5	**300 202 108**	3.417	9.2	6.0
140	12.5	**300 202 225**	4.260	10.3	6.0
160	12.5	**300 202 055**	5.561	11.8	6.0
180	12.5	**300 202 056**	7.079	13.3	6.0
200	12.5	**300 202 057**	8.653	14.7	6.0
225	12.5	**300 202 058**	10.993	16.6	6.0
250	12.5	**300 202 059**	13.537	18.4	6.0
90	12.5	**300 202 486**	1.780	6.7	11.6
110	12.5	**300 202 489**	2.640	8.1	11.6
125	12.5	**300 202 495**	3.417	9.2	11.6
140	12.5	**300 202 487**	4.260	10.3	11.6
160	12.5	**300 202 416**	5.561	11.8	11.6
180	12.5	**300 202 417**	7.079	13.3	11.6
200	12.5	**300 202 418**	8.653	14.7	11.6
225	12.5	**300 202 419**	10.993	16.6	11.6
250	12.5	**300 202 420**	13.537	18.4	11.6
90	12.5	**300 202 110**	1.780	6.7	12.0
110	12.5	**300 202 089**	2.640	8.1	12.0
125	12.5	**300 202 095**	3.417	9.2	12.0
140	12.5	**300 202 256**	4.260	10.3	12.0
160	12.5	**300 202 016**	5.561	11.8	12.0
180	12.5	**300 202 017**	7.079	13.3	12.0
200	12.5	**300 202 018**	8.653	14.7	12.0
225	12.5	**300 202 019**	10.993	16.6	12.0
250	12.5	**300 202 020**	13.537	18.4	12.0
25	12.5	**300 202 601**	0.153	2.0	100.0
32	12.5	**300 202 602**	0.232	2.4	100.0
40	12.5	**300 202 603**	0.368	3.0	100.0
50	12.5	**300 202 604**	0.558	3.7	100.0
63	12.5	**300 202 605**	0.878	4.7	100.0





Pipe PE100 SDR11 PN16

Model:

- Material: PE100
- Black High Density Bimodal PE100 Polyethylene
- Certified to ISO 4427, EN 12201, MS 1058
- Colour: black
- Available length: 5.8m, 6m, 11.6m, 12m, 100m

d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)	L (mm)
20	16	**300 202 426**	0.120	2.0	5.8
25	16	**300 202 427**	0.171	2.3	5.8
32	16	**300 202 428**	0.280	3.0	5.8
40	16	**300 202 429**	0.437	3.7	5.8
50	16	**300 202 430**	0.670	4.6	5.8
63	16	**300 202 431**	1.066	5.8	5.8
75	16	**300 202 432**	1.478	6.8	5.8
90	16	**300 202 433**	2.142	8.2	5.8
110	16	**300 202 493**	3.189	10.0	5.8
125	16	**300 202 499**	4.135	11.4	5.8
140	16	**300 202 465**	5.137	12.7	5.8
160	16	**300 202 460**	6.740	14.6	5.8
180	16	**300 202 461**	8.518	16.4	5.8
200	16	**300 202 462**	10.505	18.2	5.8
225	16	**300 202 463**	13.296	20.5	5.8
250	16	**300 202 464**	16.352	22.7	5.8
20	16	**300 202 115**	0.120	2.0	6.0
25	16	**300 202 116**	0.171	2.3	6.0
32	16	**300 202 117**	0.280	3.0	6.0
40	16	**300 202 118**	0.437	3.7	6.0
50	16	**300 202 119**	0.670	4.6	6.0
63	16	**300 202 120**	1.066	5.8	6.0
75	16	**300 202 121**	1.478	6.8	6.0
90	16	**300 202 122**	2.142	8.2	6.0
110	16	**300 202 123**	3.189	10.0	6.0
125	16	**300 202 124**	4.135	11.4	6.0
140	16	**300 202 226**	5.137	12.7	6.0
160	16	**300 202 060**	6.740	14.6	6.0
180	16	**300 202 061**	8.518	16.4	6.0
200	16	**300 202 062**	10.505	18.2	6.0
225	16	**300 202 063**	13.296	20.5	6.0
250	16	**300 202 064**	16.352	22.7	6.0
90	16	**300 202 484**	2.142	8.2	11.6
110	16	**300 202 490**	3.189	10.0	11.6
125	16	**300 202 496**	4.135	11.4	11.6
140	16	**300 202 485**	5.137	12.7	11.6
160	16	**300 202 421**	6.740	14.6	11.6
180	16	**300 202 422**	8.518	16.4	11.6
200	16	**300 202 423**	10.505	18.2	11.6
225	16	**300 202 424**	13.296	20.5	11.6
250	16	**300 202 425**	16.352	22.7	11.6
63	16	**300 202 113**	1.066	5.8	12.0
75	16	**300 202 257**	1.478	6.8	12.0
90	16	**300 202 258**	2.142	8.2	12.0
110	16	**300 202 090**	3.189	10.0	12.0
125	16	**300 202 096**	4.135	11.4	12.0
140	16	**300 202 260**	5.137	12.7	12.0
160	16	**300 202 021**	6.740	14.6	12.0
180	16	**300 202 022**	8.518	16.4	12.0
200	16	**300 202 023**	10.505	18.2	12.0
225	16	**300 202 024**	13.296	20.5	12.0
250	16	**300 202 025**	16.352	22.7	12.0
20	16	**300 202 600**	0.120	2.0	100.0
25	16	**300 202 606**	0.171	2.3	100.0

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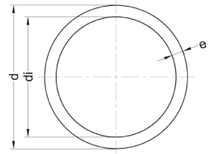
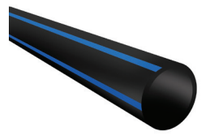
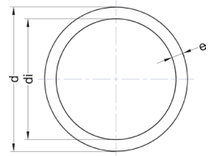


d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)	L (mm)
32	16	**300 202 607**	0.280	3.0	100.0
40	16	**300 202 608**	0.437	3.7	100.0
50	16	**300 202 609**	0.670	4.6	100.0
63	16	**300 202 610**	1.066	5.8	100.0



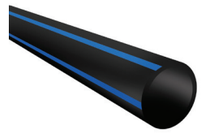


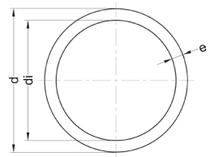
Pipe PE100 SDR9 PN20

Model:

- Material: PE100
- Black High Density Bimodal PE100 Polyethylene
- Accordance to ISO 4427, EN 12201, MS 1058
- Colour: black
- Other length requirement shall be specified by agreement between manufacturer and purchaser

d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)	L (mm)
160	20	**300 202 065**	8.072	17.9	5.8
180	20	**300 202 066**	10.190	20.1	5.8
200	20	**300 202 067**	12.603	22.4	5.8
225	20	**300 202 068**	15.953	25.2	5.8
250	20	**300 202 069**	19.627	27.9	5.8
160	20	**300 202 026**	8.072	17.9	11.6
180	20	**300 202 027**	10.190	20.1	11.6
200	20	**300 202 028**	12.603	22.4	11.6
225	20	**300 202 029**	15.953	25.2	11.6
250	20	**300 202 030**	19.627	27.9	11.6





Pipe PE100 SDR7.4 PN25

Model:

- Material: PE100
- Black High Density Bimodal PE100 Polyethylene
- Accordance to ISO 4427, EN 12201, MS 1058
- Colour: black
- Other length requirement shall be specified by agreement between manufacturer and purchaser

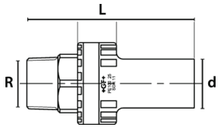
d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)	L (mm)
160	25	**300 202 070**	9.559	21.9	5.8
180	25	**300 202 071**	12.081	24.6	5.8
200	25	**300 202 072**	14.950	27.4	5.8
225	25	**300 202 073**	18.897	30.8	5.8
250	25	**300 202 074**	23.326	34.2	5.8
160	25	**300 202 031**	9.559	21.9	11.6
180	25	**300 202 032**	12.081	24.6	11.6
200	25	**300 202 033**	14.950	27.4	11.6
225	25	**300 202 034**	18.897	30.8	11.6
250	25	**300 202 035**	23.326	34.2	11.6

Transition Fittings

Transition Fittings PE/Brass
Male Thread

Model:

- Polyethylene PE100 Black SDR11 / Brass (ISO S5)
- Stainless Steel Ring 304
- British Standard Pipe Taper (BSPT) Threads: Brass Male – Threaded
- Standard/ Conformance: MS 1058, ISO 4427, EN 12201
- Welding Technology: Electrofusion/ Butt fusion
- Pressure Rating: PN 16 Water

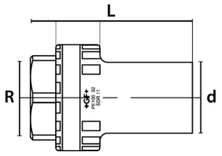


d (mm)	R (inch)	Code	SP	Kg	L (m)
25	¾	**300 200 003**	25	0.14	85
32	1	**300 200 005**	25	0.19	94
63	1 ½	**300 200 008**	5	0.80	135
63	2	**300 200 009**	5	0.81	138

Transition Fittings PE/Brass
Female Thread

Model:

- Polyethylene PE100 Black SDR11 / Brass (ISO S5)
- Stainless Steel Ring 304
- British Standard Pipe Taper (BSPT) Threads: Brass Female – Threaded
- Standard/ Conformance: MS 1058, ISO 4427, EN 12201
- Welding Technology: Electrofusion/ Butt fusion
- Pressure Rating: PN 16 Water



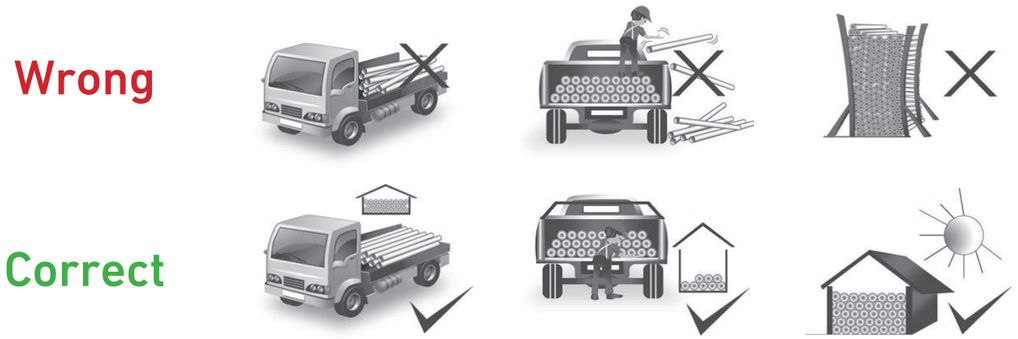
d (mm)	R (inch)	Code	SP	Kg	L (m)
25	¾	**300 200 013**	25	0.19	71
32	1	**300 200 015**	25	0.12	74
63	1 ½	**300 200 018**	5	0.50	107
63	2	**300 200 019**	5	0.56	111

General Information

Measures, units and abbreviations	d, d1, d2, d3	: Diameter
	DN	: Nominal diameter
	L, L1, L2, z, z1	: Length
	e, e1	: Wall thickness
	H	: Height
	R	: Radius
	NH	: Number of bolt holes
	SDR	: Standard Dimension Ratio

Working pressure	The maximum allowable operating pressure (MAOP) of Polyethylene (PE) pipe system is influenced by temperature, fluid, application, etc.
Specification	Georg Fischer PE pipes and fittings meet the ISO 4427:2019, EN 12201:2013, AS/NZS 4130:2018, and Indonesia national standard (SNI 4829.2:2015) for water application. And meet the ISO 4437:2014, EN 1555:2010 for gas application.
Material	Georg Fischer HDPE Pipes and Fittings pre-compounded raw material certified by the PE100+ Association and certified by independent an accredited laboratory for REGRESSION ANALYSIS ACCORDING TO ISO 9080 for classification and lifetime design.
Terms and conditions of sale	Refer to GFID terms and conditions of sale
Quality management systems	Quality management system is well established at Georg Fischer and Environmental is continuously improved to satisfy our customers. Management PT Georg Fischer Indonesia are certified according to ISO 9001:2015, Environmental Management System according to ISO 14001:2015, Occupational Health & Safety Management System according to ISO 45001:2018.
Technical documentation	Please visit Georg Fischer official website or contact Georg Fischer representative
Service, training and consultation	Our comprehensive training program offers you the possibility for extensive advice and consultation and training.
Your Partner	Georg Fischer is a world-wide organisation. Please find the address of your Georg Fischer partner on the back cover.

Packaging, handling and storage



Polyethylene (PE) pipe is though and resilient. However its relative lightness can be deceptive when considering the safety aspects of moving and handling. It can also be damaged by excessive scuffing or gouging of ends, external and internal surfaces during loading, unloading and transfer operations.

Transport

PE pipes should be transported on a flat-bed, container or curtain- side type vehicle, free from Sharp objects and any projections. Care should be taken to ensure the size, Shape, weight and centre of gravity are such that the stability and security of the load is not compromised throughout the transport journey. Furthermore, nothing should be placed on top of PE pipes during transport which could cause the pipe to deform.

Loading and Unloading

Wide slings should be used to lift pipe bundles by crane. Chains, hooks or wire rope slings should not be used since they can slip and gouge or abrade the pipe surface. Strapping or banding straps used to retain packs and bundles must not be used for lifting or handling. Allowance should be made for deflection or bending of pipes during all loading and unloading operations.

Depending on the terrain, standard forklifts can generally used for lengths up to 6m. If a forklifts is used, contact points must be protected from damage and forklift tines must not be inserted between the windings of the coils. Longer lengths should be lifted and moved by equipment fitted with loadspreading beams or attachments. Cranes or Hiabs can be efficient and safe provided precautions are made for correct slinging of the load and operation of the equipment. Larger diameter pipes (e.g.355mm OD and over) should be handled individually. These are generally less stable than bundled lengths and will move freely unless adequately restrained.

Pipes which have been held or restrained in bundles or singly by strapping or banding etc. during storage, handling and transportation will hold considerable amounts of stored energy. Thermal expansion and contraction contributes to the amount and the direction of the stored energy. This stored energy can be hazardous if released incorrectly.

Storage

Pipe should not be stored in direct contact with the ground. Timber battens or other suitable means should be placed under the pipe in uniform spacing. Stack height should be limited to prevent pipe from losing Shape due to imposed loads. Nothing should be placed on top of PE pipes during storage which could cause pipe to deform. Pipe stacks should be pegged, chocked or otherwise secured to prevent pipes rolling or falling.

Bundled packs should be stacks so that their packaging battens are in line with each other. This will facilitate easy access by the forklift truck or side loader. Where battens are not aligned additional rigid dunnage should be placed between bundles. Coils can be stored flat on a solid flat surface or in near vertical position to prevent distortion.

Impact, abrasion and contact with hot surfaces such as vehicle exhausts can damage pipes and pipe ends. Covered storage should be considered if prolonged exposure to direct sunlight is envisaged as well as storage away from sources of direct heat or fire. Pipe should not be stored where there is a possibility of contact with chemicals (e.g.lubricating/hydraulics oils, solvents, conditioning fluids etc).Pipe which has been heavily contaminated with such substances should be scrapped.

Notes:

GF Piping Systems

Local support around the world

Visit our webpage to get in touch with your local specialist:
www.gfps.com/our-locations

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