



Product certificate K12506/08

Issued 2022-09-01

Replaces K12506/07

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Ductile iron pipes and fittings

STATEMENT BY KIWA

With this product certificate, issued in accordance with the Kiwa Regulations for Certification, Kiwa declares that legitimate confidence exists that the products supplied by

Saint-Gobain Pipe Systems B.V.

as specified in this product certificate and marked with the Kiwa®-mark in the manner as indicated in this product certificate may, on delivery, be relied upon to comply with Kiwa evaluation guideline

BRL-K772: "Ductile cast iron pipes and fittings for the transport of drinking water" dated 2018-12-01,

which covers the requirements of

EN 545: "Ductile iron pipes, fittings and connections for water pipelines – Requirements and test methods".

Ron Scheepers
Kiwa

Publication of this certificate is allowed.

Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.

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Certification process
consists of initial and
regular assessment of:

- quality system
- product



Ductile iron pipes and fittings

PRODUCT SPECIFICATION

The products mentioned below belong to this technical approval-with-product certificate

FITTINGS

Product description	Abbreviation	Angle	Angle	DN (mm)	dn (mm)
Double socket bend	MMQ	1/4	90°	60-1000	
	MMK 45°	1/8	45°	60-2000	
	MMK 30°	1/12	30°	80-600	
	MMK 22,5°	1/16	22,5°	60-2000	
	MMK 11,25°	1/32	11,25°	60-2000	
Double socket tee with flanged branch	MMA			60-1200	40-1200
All socket tee	MMB			60-600	60-600
Double socket washout tee with flanged branch				250-2000	100-600
Double socket level invert tee with flanged branch				150-1600	80-400
Flanged socket	E			60-2000	
Flanged socket	EU			60-700	
Concentric socket taper	MMR			80-2000	60-1800
Collar	U			80-1200	
Blank flange	X			40-2000	
Blank flange with threaded hole	XG			40-2000	
Reducing flange	XR			100-200	
All flanged bend	Q	1/4	90°	50-1200	
	FFK 45°	1/8	45°	80-2000	
	FFK 30°	1/12	30°		
	FFK 22,5°	1/16	22,5°	80-2000	
	FFK 11,25°	1/32	11,25°	80-2000	
All flanged long radius bend		1/4	90°	80-600	
All flanged duckfoot bend	N	1/4	90°	80-1200	
All flanged tee	T			80-2000	50-1800
All flanged level invert tee				100-600	80-200
All flanged concentric taper	FFR			80-2000	40-1800
All flanged flat taper	FFRe			80-600	50-500
All flanged Y	Y			80-450	
All flanged 45° tee	FFC			80-400	80-400
All flanged radial tee	SCH			80-600	80-600
All flanged double tee	TT			80-600	80-600
Flanged bellmouth	OMS			80-1200	
Short double flanged pipe	FF			50-1200	
Flanged spigot	F			60-2000	
Flanged spigot with puddle flange	FM			250-2000	
Double flanged pipe with puddle flange	FFM			300-2000	

NOTE:

Socket fittings are supplied with one of the following EPDM gaskets:

- Tyton sealing ring (DN80 - DN300);
- Tyton Sit+ anchored sealing ring (DN80 - DN300);
- Standard sealing ring (DN60 - DN2000);
- Standard Vi anchored sealing ring (DN60 - DN600).

The sockets for the Tyton and Standard rings can be extended with an additional cast on chamber for an anchored connection. In which case, the anchored ring has only a locking function and will not come into contact with the medium.

Flanged fittings with sizes up to and including DN600 can have fixed or loose flanges, both according to EN 1092-2. Flanges can be provided with PN10, PN16 or PN25 drillings and higher upon request.

All fittings are epoxy coated both internally and externally.

Ductile iron pipes and fittings

PIPES

Description	DN (mm)	Connecting ends
Socket spigot pipe, internally cement-lined, external zinc-aluminum coating with finishing layer	60-1000	Standard of Tyton socket
Socket spigot pipe, internally cement-lined, external zinc coating with finishing layer	60-2000	Standard socket
Double flanged pipe, internally cement-lined, external zinc-aluminum coating with finishing layer	60-1000	Welded flanges (fixed)
Double flanged pipe, internally cement-lined, external zinc coating with finishing layer	60-2000	Welded flanges (fixed)

NOTE:

The cement lining (blast furnace cement) is factory applied and certified according to KIWA evaluation guideline BRL-K778 including Hygienic Aspects (as per certificates K12125 and K12507).

NOTE:

Socket pipes are supplied with one of the following EPDM gaskets:

- Tyton sealing ring (DN80 - DN300);
- Tyton Sit+ anchored sealing ring (DN80 - DN300);
- Standard sealing ring (DN60 - DN2000);
- Standard Vi anchored sealing ring (DN60 - DN600).

The sockets for the Tyton and Standard rings can be extended with an additional cast on chamber for an anchored connection. In which case, the anchored ring has only a locking function and will not come into contact with the medium.

BLUTOP PRODUCT FAMILY

Product description	Angle	Angle	DN/OD (mm)	dn (mm)
Double socket bend	1/4	90°	75-160	
	1/8	45°	75-160	
	1/16	22,5°	75-160	
	1/32	11,25°	75-160	
Double socket tee with flanged branch			75-160	40-150
All socket tee			75-160	75-160
Flanged socket			75-160	60-150
Flanged spigot			75-160	60-150
Concentric socket taper			90-160	75-125
End cap			75-160	
Duckfoot bend 1 flange, 1 socket			75-160	80-100
Collar, non-sliding			75-160	
Semi-sliding collar			75-160	

Socket pipe, internal "Ductan" coating (approved according to Hygienic Aspects), external zinc-aluminum coating with finishing layer

75-160

NOTE:

The products are supplied with a Blutop EPDM sealing ring or a Blutop—Vi EPDM anchored sealing ring, for DN/OD75 – DN/OD160.

Ductile iron pipes and fittings

Fitness for contact with drinking water

This product is approved on the basis of the requirements for hygienic aspects set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" ("Materials and chemicals in the supply of drinking water and warm tap water Regulation" dated 01-07-2017; published in the Government Gazette).

These hygienic aspects are based on two main criteria. The product shall permanently comply with:

- The product recipe approved during the assessment procedure. This recipe is not to be changed without prior approval by Kiwa according to the Kiwa approval procedure for the hygienic aspects;
- Specific product requirements for the hygienic aspects.

The recipe and specific product requirements are laid down in the for confidentiality reasons undisclosed 'appendix hygienic aspects' to this certificate.

MARKING

The Kiwa®-mark products are marked with the word mark "KIWA .

Place of the mark: on the fitting.

Compulsory specifications:

- manufacturer's name or logo;
- the last two digits of the production year;
- material specification;
- external diameter (in mm) range of the piping with which the coupling can be used;
- nominal pressure.

Method of marking:

- Non-erasable;
- visible after assembly.

APPLICATION AND USE

The products are intended to be applied in piping systems for the transport of drinking water with the nominal size of DN 40 up to and including DN 2000 with a maximum water pressure 1 MPa and water temperature of 30°C.

RECOMMENDATIONS FOR CUSTOMERS

Check at the time of delivery whether:

- the supplier has delivered in accordance with the agreement;
- the mark and the marking method are correct;
- the products show no visible defects as a result of transport etc.

If you should reject a product on the basis of the above, please contact:

- Saint-Gobain Pipe Systems BV

and, if necessary,

- Kiwa Nederland B.V.

Consult the supplier's processing guidelines for the proper storage and transport methods.