

Pressure pipes

HDPE EN-12201 and UPVC EN 1452



DYKA

HDPE Pressure pipes



Stock yard



DYKA plant

At DYKA

We proudly state that we can provide you "just-in-time" with all possible solutions for your specific requirements related to plastic pipe systems. Our "no-nonsense" statement is based on the following impressive figures and facts: The DYKA premises near the town of Steenwijk in the Netherlands, solely occupies some 180.000 m². A full-service plant with automated production lines, special engineering department, quality control, research & development, storage and logistics.

Injection moulding

Our large number of special moulding machines do produce more than 44 million items per year, in any size and shape.

Thermo forming

Flexibility and enormous innovative capacity offered by thermo forming have resulted in our company's impressive range of plastic fittings. A product range that still offers ample potential for expansion, new applications are continually being discovered, and other plastics are being tested for their suitability for this renowned manufacturing technology.

Extrusion

Excellent tuned extrusion lines do assure the non-stop production of pipes and conduits in every possible colour, diameter and specific technical specifications. Total output: more than 55.000 kilometres of plastic pipes per year!

Storage & Logistics

Every day, full truck-loads and containers are shipped from our production plants in Europe, by road, air, train and waterway to satisfy the needs of our customers all over the world.

Export Sales

Our eager export staff is only too willing to serve and assist you with technical advice, customs documents and after-sales service.

Whatever you might need AT DYKA, we can do it for you!



General information about HDPE pressure pipes

PE is classified based on raw materials and pressure grade.

PE for potable water applications:

- HDPE can be used for distribution pipelines and for connection to the watermeter/ manifold. Pipes are produced according to the EN 12201. Within this standard there are metric sizes applicable.

PE Industrial and pressure sewers:

- Pipes are produced according to the EN 13244

HDPE raw material classification:

The classification number used for PE raw material types is dimensionless and is equal to the MRS (Minimum Required Strength) value multiplied by 10. The MRS value is the minimum required tangential wall stress (Sigma value) in N/mm² that the material in pipe form must be able to withstand for 50 years at 20°C.

The permissible tangential wall stress (TS) is found by dividing the MRS value by the safety factor (SF). For PE 80 and PE 100 (water) this factor is 1.25, as applicable in the EN 12201

Classification PE-Type	MRS (N/mm ²) at 20°C	TS (N/mm ²) at 20°C permissible.
PE 80	8.0	6.3
PE 100	10.0	8.0

Pipe identification- Conversion of pressure grades:

Pipes and fittings are identified by their SDR (Standard Dimension Ratio). This is the exterior diameter divided by the wall thickness. E.g. pipe Ø 110 mm with wall thickness 10 mm = SDR 11, the same pipe but with wall thickness 6.3 mm = SDR 17.6. From the combination of the SDR with material used (e.g. raw material type PE 80 or PE 100) the corresponding pressure grade (PN) can be derived by using table A. E.g. pipe SDR 11 made from raw material PE 80 allows a pressure (PN) of 12.5 bar. If the same pipe were to be manufactured from raw material PE 100 then the pressure resistance (PN) may increase to 16 bar.

Notes on HDPE pressure fittings:

1. HDPE pressure fittings SDR 17/17.6 can be welded to both SDR 17 pipes and to SDR 17.6 pipes (both for mirror- and electro fusion welds)!
2. HDPE pressure fittings PE 100 can be welded to both PE 80 pipes and to PE 100 pipes (both for mirror- and electro fusion welds)!

Important note relating to welding HDPE pressure pipes and pressure fitting:

To make a correct mirror weld, the wall thickness of the fitting must be equal to that of the pipe. Therefore the SDR class of the pipe must be in correspondence with the SDR class of the fitting.

$$SDR = \frac{de}{e}$$

$$ISO-S = \frac{SDR-1}{2}$$

Table A: Conversion of the pressure grades			
		PE80	PE100
Safety factor (SF)		SF 1.25	SF 1.25
SDR	ISO-S	Nominal pressure (PN)	
		Water 20°C 50 years	
33	16	4	5
17.6	8.3	7.6	9.6
17	8	8	10
13.6	6.3	10	12.5
11	5	12.5	16

Potable water PE80 SDR17.



Available lengths (m)

	5,8	11,8	50	100
Potable water PE80 32x2,0 SDR 17 KIWA			•	•
Potable water PE80 40X2,4 SDR 17 KIWA			•	•
Potable water PE80 50X3,0 SDR 17 KIWA			•	•
Potable water PE80 63X3,8 SDR 17 KIWA	•	•	•	•
Potable water PE80 75X4,5 SDR 17 KIWA	•	•	•	•
Potable water PE80 90X5,4 SDR 17 KIWA	•	•	•	•

Potable water PE80 SDR13,6.



Available lengths (m)

	5,8	11,8	50	100
Potable water PE80 25x2,0 SDR 13,6 KIWA			•	•
Potable water PE80 32x2,4 SDR 13,6 KIWA			•	•
Potable water PE80 40X3,0 SDR 13,6 KIWA			•	•
Potable water PE80 50X3,7 SDR 13,6 KIWA			•	•
Potable water PE80 63X4,7 SDR 13,6 KIWA	•	•	•	•
Potable water PE80 75X5,6 SDR 13,6 KIWA	•	•	•	•
Potable water PE80 90X6,7 SDR 13,6 KIWA	•	•	•	•

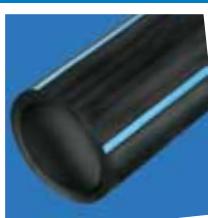
Potable water PE80 SDR11.



Available lengths (m)

	5,8	11,8	50	100
Potable water PE80 20X 2,0 SDR11 KIWA			•	•
Potable water PE80 25X 2,4 SDR11 KIWA			•	•
Potable water PE80 32X 3,0 SDR11 KIWA	•		•	•
Potable water PE80 40X 3,7 SDR11 KIWA	•		•	•
Potable water PE80 50X 4,6 SDR11 KIWA	•		•	•
Potable water PE80 63X 5,8 SDR11 KIWA	•	•	•	•
Potable water PE80 75X 6,8 SDR11 KIWA	•	•	•	•
Potable water PE80 90X 8,2 SDR11 KIWA	•	•	•	•

Potable water PE100 SDR17.



	Available lengths (m)			
	5,8	11,8	50	100
Potable water PE100 110X 6,6 SDR17 KIWA
Potable water PE100 125X 7,4 SDR17 KIWA
Potable water PE100 160X 9,5 SDR17 KIWA	.	.		
Potable water PE100 200X11,9 SDR17 KIWA	.	.		
Potable water PE100 225X13,4 SDR17 KIWA				
Potable water PE100 250X14,8 SDR17 KIWA	.	.		
Potable water PE100 280X16,6 SDR17 KIWA				
Potable water PE100 315X18,7 SDR17 KIWA	.	.		
Potable water PE100 355X21,1 SDR17 KIWA	.	.		
Potable water PE100 400X23,7 SDR17 KIWA	.	.		
Potable water PE100 450X26,7 SDR17 KIWA	.	.		
Potable water PE100 500X29,7 SDR17 KIWA	.	.		
Potable water PE100 560X33,2 SDR17 KIWA	.	.		
Potable water PE100 630X37,4 SDR17 KIWA	.	.		

Potable water PE100 SDR13,6.



	Available lengths (m)			
	5,8	11,8	50	100
Potable water PE100 110X8,1 SDR 13,6 KIWA
Potable water PE100 125X9,2 SDR 13,6 KIWA
Potable water PE100 160X11,8 SDR 13,6 KIWA	.	.		
Potable water PE100 200X14,7 SDR 13,6 KIWA	.	.		
Potable water PE100 250X18,4 SDR 13,6 KIWA	.	.		
Potable water PE100 315X23,2 SDR 13,6 KIWA	.	.		
Potable water PE100 355X26,1 SDR 13,6 KIWA	.	.		
Potable water PE100 400X29,4 SDR 13,6 KIWA	.	.		
Potable water PE100 450X33,1 SDR 13,6 KIWA	.	.		
Potable water PE100 500X36,8 SDR 13,6 KIWA	.	.		
Potable water PE100 560X41,2 SDR 13,6 KIWA	.	.		
Potable water PE100 630X46,3 SDR 13,6 KIWA	.	.		

Potable water PE100 SDR11.



	Available lengths (m)			
	5,8	11,8	50	100
Potable water PE100 110X10,0 SDR11 KIWA
Potable water PE100 125X11,4 SDR11 KIWA
Potable water PE100 160X14,6 SDR11 KIWA	.	.		
Potable water PE100 200X18,2 SDR11 KIWA	.	.		
Potable water PE100 225X20,5 SDR11 KIWA	.			
Potable water PE100 250X22,7 SDR11 KIWA	.	.		
Potable water PE100 280X25,4 SDR11 KIWA	.			
Potable water PE100 315X28,6 SDR11 KIWA	.	.		
Potable water PE100 355X32,3 SDR11 KIWA	.	.		
Potable water PE100 400X36,4 SDR11 KIWA	.	.		
Potable water PE100 450X41,0 SDR11 KIWA	.	.		
Potable water PE100 500X45,5 SDR11 KIWA	.	.		

Pressure sewerage PE100 SDR17.



	Available lengths (m)			
	5,8	11,8	50	100
Pressure sewerage PE100 32X 2,0 SDR17 KOMO	.		.	.
Pressure sewerage PE100 40X 2,4 SDR17 KOMO	.		.	.
Pressure sewerage PE100 50X 3,0 SDR17 KOMO	.		.	.
Pressure sewerage PE100 63X 3,8 SDR17 KOMO
Pressure sewerage PE100 75X 4,5 SDR17 KOMO
Pressure sewerage PE100 90X 5,4 SDR17 KOMO
Pressure sewerage PE100 110X 6,6 SDR17 KOMO
Pressure sewerage PE100 125X 7,4 SDR17 KOMO
Pressure sewerage PE100 140X8,3 SDR17 KOMO	.			
Pressure sewerage PE100 160X 9,5 SDR17 KOMO	.			
Pressure sewerage PE100 180X10,7 SDR17 KOMO	.			
Pressure sewerage PE100 200X11,9 SDR17 KOMO	.			
Pressure sewerage PE100 225X13,4 SDR17 KOMO	.			
Pressure sewerage PE100 250X14,8 SDR17 KOMO	.			
Pressure sewerage PE100 280X16,6 SDR17 KOMO	.			
Pressure sewerage PE100 315X18,7 SDR17 KOMO	.			
Pressure sewerage PE100 355X21,1 SDR17 KOMO	.			
Pressure sewerage PE100 400X23,7 SDR17 KOMO	.			
Pressure sewerage PE100 450X26,7 SDR17 KOMO	.			
Pressure sewerage PE100 500X29,7 SDR17 KOMO	.			
Pressure sewerage PE100 560X33,2 SDR17 KOMO	.			
Pressure sewerage PE100 630X37,4 SDR17 KOMO	.			

Pressure sewerage PE100 SDR13,6.	Available lengths (m)			
	5,8	11,8	50	100
Pressure sewerage PE100 32x2,4 SDR 13,6 KOMO			•	•
Pressure sewerage PE100 40X3,0 SDR 13,6 KOMO			•	•
Pressure sewerage PE100 50X3,7 SDR 13,6 KOMO			•	•
Pressure sewerage PE100 63X4,7 SDR 13,6 KOMO	•	•	•	•
Pressure sewerage PE100 75X5,6 SDR 13,6 KOMO	•	•	•	•
Pressure sewerage PE100 90X6,7 SDR 13,6 KOMO	•	•	•	•
Pressure sewerage PE100 110X8,1 SDR 13,6 KOMO	•	•	•	•
Pressure sewerage PE100 125X9,2 SDR 13,6 KOMO	•	•	•	•
Pressure sewerage PE100 160X11,8 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 200X14,7 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 250X18,4 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 315X23,2 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 355X26,1 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 400X29,4 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 450X33,1 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 500X36,8 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 560X41,2 SDR 13,6 KOMO	•	•		
Pressure sewerage PE100 630X46,3 SDR 13,6 KOMO	•	•		

Pressure sewerage PE100 SDR11.	Available lengths (m)			
	5,8	11,8	50	100
Pressure sewerage PE100 32X 3,0 SDR11 KOMO			•	•
Pressure sewerage PE100 40X 3,7 SDR11 KOMO			•	•
Pressure sewerage PE100 50X 4,6 SDR11 KOMO			•	•
Pressure sewerage PE100 63X 5,8 SDR11 KOMO	•	•	•	•
Pressure sewerage PE100 75X 6,8 SDR11 KOMO	•	•	•	•
Pressure sewerage PE100 90X 8,2 SDR11 KOMO	•	•	•	•
Pressure sewerage PE100 110X10,0 SDR11 KOMO	•	•	•	•
Pressure sewerage PE100 125X11,4 SDR11 KOMO	•	•	•	•
Pressure sewerage PE100 140X12,7 SDR11 KOMO	•	•		
Pressure sewerage PE100 160X14,6 SDR11 KOMO	•	•		
Pressure sewerage PE100 180X16,4 SDR11 KOMO	•	•		
Pressure sewerage PE100 200X18,2 SDR11 KOMO	•	•		
Pressure sewerage PE100 225X20,5 SDR11 KOMO	•	•		
Pressure sewerage PE100 250X22,7 SDR11 KOMO	•	•		
Pressure sewerage PE100 280X25,4 SDR11 KOMO	•	•		
Pressure sewerage PE100 315X28,6 SDR11 KOMO	•	•		
Pressure sewerage PE100 355X32,2 SDR11 KOMO	•	•		
Pressure sewerage PE100 400X36,3 SDR11 KOMO	•	•		
Pressure sewerage PE100 450X40,9 SDR11 KOMO	•	•		
Pressure sewerage PE100 500X45,4 SDR11 KOMO	•	•		



CERTIFICATE
Environmental Management System

BCCA attests that the Environmental Management System implemented by
DYKA PLASTICS N.V.
Industrieterrein Noelpark 4004, 3900 OVERPELT,
in its head office and its subsidiaries located at Bruges, Herstal, Ternat, Zedelgem,
Hasselt, Fluwijn and Olen, Antwerp,
in the following activities of
design, production and delivery
of components for plastic piping systems
for applications with or without internal pressure,
meets the requirements of the standard
NBN EN ISO 14001 : 2015.

This certificate is granted on the basis of the request of
the certification body for management systems, drawn up by BCCA.
NBN certificate BR-700-202-0001 - Valid from 14 September 2019 until 21 October 2021

Issued in Brussels, on 11 June 2018.


M. W. De Baets
General Manager


P. C. Maertens
Site manager

The above-mentioned certificate is valid for the following scope:
The implementation of the Environmental Management System in accordance with the requirements of ISO 14001:2015.
BELGIAN CONSTRUCTION CERTIFICATION ASSOCIATION (BCCA)
Postbus 1000, 3900 Overijse, Belgium
Tel.: +32 10 23 00 11 - Fax: +32 10 23 00 12
Email: info@bcca.be - Website: www.bcca.be



CERTIFICATE
Quality Management System

BCCA attests that the Quality Management System implemented by
DYKA PLASTICS N.V.
Industrieterrein Noelpark 4004, 3900 OVERPELT,
in its head office and its subsidiaries located at Bruges, Herstal, Ternat, Zedelgem,
Hasselt, Fluwijn and Olen, Antwerp,
in the following activities of
design, production and delivery
of components for plastic piping systems
for applications with or without internal pressure,
meets the requirements of the standard
NBN EN ISO 9001 : 2015.

This certificate is granted on the basis of the request of
the certification body for management systems, drawn up by BCCA.
NBN certificate BR-700-202-0001 - Valid from 11 June 2019 until 27 April 2022

Issued in Brussels, on 11 June 2018.


P. C. Maertens
Site manager


K. D. Heykens
Vice-president

The above-mentioned certificate is valid for the following scope:
The implementation of the Quality Management System in accordance with the requirements of ISO 9001:2015.
BELGIAN CONSTRUCTION CERTIFICATION ASSOCIATION (BCCA)
Postbus 1000, 3900 Overijse, Belgium
Tel.: +32 10 23 00 11 - Fax: +32 10 23 00 12
Email: info@bcca.be - Website: www.bcca.be



BENOR CERTIFICATE

Based on the basis of the provisions of the Implementation Rules for BENOR Certification
of Thermoplastic zones and accessories, TR1.00.001.

In the company
Dyka Plastics N.V.
Industrieterrein Noelpark 4004, BE - 3900 Overijse,
in the production of
PE-pipes for water supply, drainage and sewerage under pressure,
size group 1 (16-110mm) and 2 (125-500mm)
manufactured in the production unit
Dyka Plastics N.V.,
Industrieterrein Noelpark 4004, BE - 3900 Overijse,
in accordance with the
**NBN EN 12201 "Plastic piping systems for water supply, and for drainage and
sewerage under pressure - Polyethylene (PE)"**

By issuing this certificate, BCCA certifies that on the basis of the total assessment of the product characteristics as defined in the
Implementation Rules for BENOR Certification of Thermoplastic zones and accessories, TR1.00.001, the quality of the
implementation of the quality assurance processes and the control schemes agreed upon, (ISO 9001), is considered to be in a
sufficiently satisfactory condition. This certificate is given to the manufacturer listed by the certificate holder for guaranteeing conformity
with the requirements of the implementation rules for BENOR Certification of Thermoplastic zones and accessories, TR1.00.001.

The entries in this certificate give the date with regard to the certified product. This document is to be annexed to the certificate and is
authenticated by BCCA.

Authorised issue of this certificate and as long as it is maintained valid, BCCA gives the right to use the BENOR mark on the
certified products. The entry of validity of a specific BENOR mark is given by the certificate holder on the product.
The use of the BENOR mark does not relieve the certificate holder of his responsibilities with regard to the relevant standard.

The validity of this certificate can be checked via www.benor.be.

NBN certificate BR-491-202-0201-P-04-20-044PZ - Valid from 19-12-2019 until 10-12-2021

Issued in Brussels, on 12 February 2019.


G. S. De Baets
General Manager

The above-mentioned certificate is valid for the following scope:
The implementation of the Quality Management System in accordance with the requirements of ISO 9001:2015.
BELGIAN CONSTRUCTION CERTIFICATION ASSOCIATION (BCCA)
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A full set of our certificates can be obtained from our website

Certificat

CERTIFICATE

 CERTIFICATE	<p>Certificate MSC-K56663/05</p> <table border="0"> <tr> <td>Issue date:</td> <td>2013-06-15</td> <td>Expiry date:</td> <td>2014-06-15</td> </tr> <tr> <td>Code ref:</td> <td>2013-06-15</td> <td>File number:</td> <td>2013-06-15</td> </tr> </table>	Issue date:	2013-06-15	Expiry date:	2014-06-15	Code ref:	2013-06-15	File number:	2013-06-15
Issue date:	2013-06-15	Expiry date:	2014-06-15						
Code ref:	2013-06-15	File number:	2013-06-15						
ISO 14001									
<p>Kiwa has determined that</p> <p>Dyka B.V.</p> <p>the environmental management system and its implementation comply with ISO 14001:2004 (IDT IEC 207-1:2010) for the scope:</p> <p>The development, production and supply of plastic piping systems. Including related: research, testing, tailor-made solutions, technical advice and logistic service.</p> <p> Ronald Korten Kiwa</p>									
<p>This certificate is valid until 21 July 2014. Verification of the certificate is planned.</p>									
<p>Management System</p> <p>ISO 9001 Quality Management ISO 14001 Environmental Management ISO 45001 Health and Safety Management EN 1090 CE marking Product Standard Construction Product EN 12201 EN 12202 EN 12203 EN 12204 EN 12205 EN 12206 EN 12207 EN 12208 EN 12209 EN 12210 EN 12211 EN 12212 EN 12213 EN 12214 EN 12215 EN 12216 EN 12217 EN 12218 EN 12219 EN 12220 EN 12221 EN 12222 EN 12223 EN 12224 EN 12225 EN 12226 EN 12227 EN 12228 EN 12229 EN 12230 EN 12231 EN 12232 EN 12233 EN 12234 EN 12235 EN 12236 EN 12237 EN 12238 EN 12239 EN 12240 EN 12241 EN 12242 EN 12243 EN 12244 EN 12245 EN 12246 EN 12247 EN 12248 EN 12249 EN 12250 EN 12251 EN 12252 EN 12253 EN 12254 EN 12255 EN 12256 EN 12257 EN 12258 EN 12259 EN 12260 EN 12261 EN 12262 EN 12263 EN 12264 EN 12265 EN 12266 EN 12267 EN 12268 EN 12269 EN 12270 EN 12271 EN 12272 EN 12273 EN 12274 EN 12275 EN 12276 EN 12277 EN 12278 EN 12279 EN 12280 EN 12281 EN 12282 EN 12283 EN 12284 EN 12285 EN 12286 EN 12287 EN 12288 EN 12289 EN 12290 EN 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 <h1>CERTIFICATE</h1>	<p>Certificate KSC-K22342/09</p> <p>issued 2013-06-15 expires 2023-06-09 re-issued 2023-05-15 re-expires 2025-07-21</p> <p>ISO 9001</p> <p>Kiwa has determined that the quality management system applied by Dyka B.V. and its implementation comply with ISO 9001:2015 for the scope:</p> <p>The development, production and supply of plastic recycling systems. Providing related (third party) tailor-made solutions, technical advice and logistic service.</p> <p> Ronald van der Kooij Kiwa</p> <p>Please contact the certified company for more information about the scope of this certificate in relation to the ISO 9001:2015 standard.</p> <p>This certificate consists of 1 page. Publication of this certificate is allowed.</p> <p>Relevant information:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Issuing body:</td> <td>Dyka B.V.</td> </tr> <tr> <td>Address:</td> <td>Hoofdweg 10 1975 AG Lutjewinkel NL - 1975 AG Lutjewinkel</td> </tr> <tr> <td>Phone:</td> <td>+31 30 26 80 00</td> </tr> <tr> <td>E-mail:</td> <td>info@dyka.nl</td> </tr> <tr> <td>Internet:</td> <td>www.dyka.nl</td> </tr> </table> <p>Scope:</p> <ul style="list-style-type: none"> - Development, production and supply of plastic recycling systems. - Providing related (third party) tailor-made solutions, technical advice and logistic service. 	Issuing body:	Dyka B.V.	Address:	Hoofdweg 10 1975 AG Lutjewinkel NL - 1975 AG Lutjewinkel	Phone:	+31 30 26 80 00	E-mail:	info@dyka.nl	Internet:	www.dyka.nl
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Address:	Hoofdweg 10 1975 AG Lutjewinkel NL - 1975 AG Lutjewinkel										
Phone:	+31 30 26 80 00										
E-mail:	info@dyka.nl										
Internet:	www.dyka.nl										

PVC Pressure pipes

EN1452



DYKA

Product Description

Plastics are synthetic macromolecular materials which, by processing acquire their specific functions. They are produced by chemical processes, the principle raw material being oil. The macromolecular structure of plastics is achieved by polymerisation of individual molecules or monomers into chain molecules that are between 1,000 and 100,000 times larger than those naturally occurring in water or salt. This macro molecular composition forms a spatial net-like structure with numerous internal chemical bonds.

Plastics can be divided into two main groups.

- Thermoplastic materials which, upon heating, soften and melt and can be reheated and reformed.
- Thermosetting materials which soften and melt with the initial heating but then set permanently in their final shape.

Polyvinylchloride or PVC-u is one of the most widely used thermoplastic materials, due to its flexibility of usage and competitive price. It is manufactured by the petrochemical industry who produce a dichloride from ethane and chloride and apply pyrolysis above 400°C to cause splitting into vinylchloride and hydrochloric acid.

The basic polymer is mixed with additives such as colour, filler, lubricants and stabilisers in accordance with a recipe determined by the properties of the finished product. The mix of compound is transported to either extruders or injection moulding machines to be converted into the end product.

DYKA PVC-u pipe is a high quality pipe suitable for pressure pipeline systems for cold water services. It is available in imperial and metric dimensions that are produced in accordance with appropriate national and international standards.

DYKA PVC-u pipe is supplied plain ended, with integral solvent weld socket or integral ring seal joint.

Standards of Manufacture and Quality Control

DYKA produce PVC-u pressure pipe in accordance with all the principal European quality standards.

All DYKA manufacturing facilities are accredited to ISO 9001. This defines the quality management system under which the manufacturing and support departments operate. It provides the overall framework within which production of pipes to a particular specification can take place.

DYKA manufactured PVC-u products are specifically certified against the requirements of:

KIWA the Netherlands

DVGW Germany

DIN Germany

SECO France

Unless otherwise specified, all DYKA, standard metric pipework is manufactured to the Dutch water industry standard KIWA K17301 and EN1452. Dykapipe is certified to this standard by the KIWA quality organisation. DYKA have the capability to manufacture to a number of the European standards and in many cases hold quality approvals against these. Details of these and copies of all certificates are available on request.

Quality Control

All quality control testing for conformity with the various production standards is carried out by the DYKA in house laboratory. All laboratory operations are monitored by the Dutch Standards Institute, The Dutch KIWA Quality Organisation and others.

A grey metric pipe system is available from DYKA, which is produced in accordance with the Dutch Water Authority Standard KIWA BRL K17301. This standard is derived from the specifications issued by the International standards Organisation (ISO) references ISO 161/1, ISO 4065 and EN1452.

The DYKA production facility for this pipe system is registered by the Dutch Water Authority and the Dutch quality assurance body KIWA/NEN. All DYKA PVC-u pipe is approved by the World Health Organisation (WHO) for use with potable water.

Other Pipe Standards

In addition to the above DYKA will manufacture pipe to most European national standards on specific request. Please refer to the technical department of DYKA for details.

Copies of all the applicable quality standards, e.g. EN1452, are available on request.

Pipe Length

Special lengths e.g. 5,7 meter (container lengths) or 6+ meter can be supplied to specific order providing the quantity constitutes a reasonable production run. Contact your distributor or the technical department of DYKA for further information.

Pipe Colour

Metric pipes to KIWA K17301 can be supplied in standard PVC-u, cream colour RAL 1014 and grey RAL 7011. Pipework in other colours can be produced against specific requirements providing the quantity constitutes a reasonable production run. Contact your distributor or the technical department of DYKA for further information.

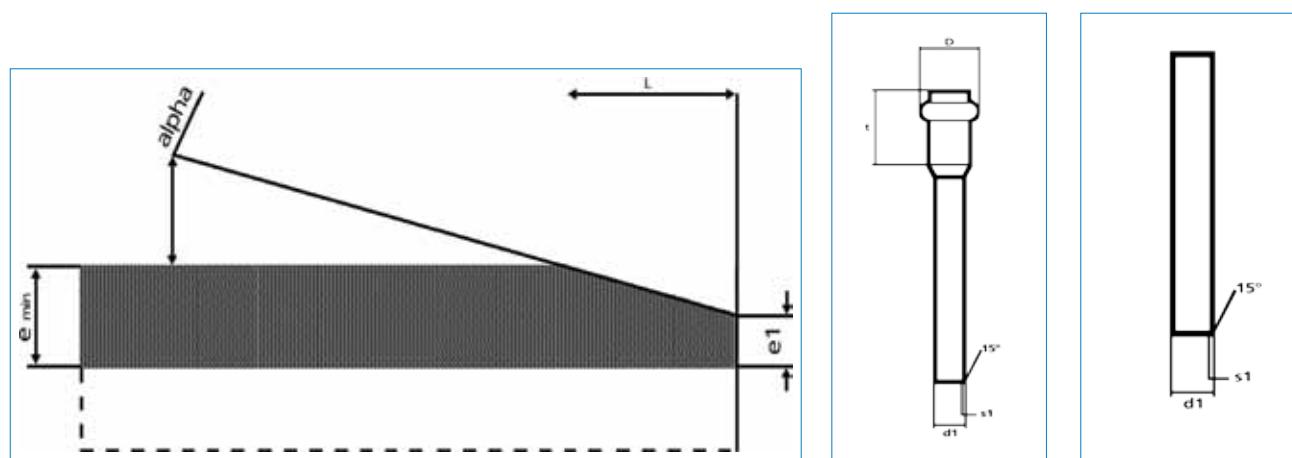
Chamfering of the pipes

The chamfers on the pipes should be smooth and regular and comply to table 4.

The assessment is done visually and the parameters are taken from EN-ISO-3126.

Measurements for chamfering (dimensions in mm)

Nominal outside diameter	e_1	l	alpha	
$>$	\leq	min	min	max
-	90		4	
90	110		6	
110	125	0,50 x e_{min}	7	5°
125	400		8	15°
400	-		10	

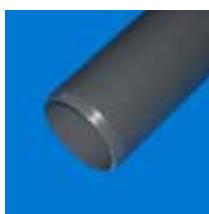


PVC PRESSUREPIPES PLAIN ENDED 0,8MPa KIWA



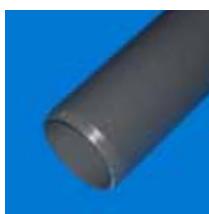
	Kg/m
PVC PRESSUREPIPES PLAIN ENDED 63x 2,5mm 0,8MPa KIWA	0,743
PVC PRESSUREPIPES PLAIN ENDED 75x 2,9mm 0,8MPa KIWA	1,015
PVC PRESSUREPIPES PLAIN ENDED 90x 3,5mm 0,8MPa KIWA	1,468
PVC PRESSUREPIPES PLAIN ENDED 110x 3,4mm 0,8MPa KIWA	1,762
PVC PRESSUREPIPES PLAIN ENDED 125x 3,9mm 0,8MPa KIWA	2,273
PVC PRESSUREPIPES PLAIN ENDED 160x 4,9mm 0,8MPa KIWA	3,639
PVC PRESSUREPIPES PLAIN ENDED 200x 6,2mm 0,8MPa KIWA	5,758
PVC PRESSUREPIPES PLAIN ENDED 250x 7,7mm 0,8MPa KIWA	8,879
PVC PRESSUREPIPES PLAIN ENDED 315x 9,7mm 0,8MPa KIWA	14,212
PVC PRESSUREPIPES PLAIN ENDED 400x 12,3mm 0,8MPa KIWA	22,865
PVC PRESSUREPIPES PLAIN ENDED 500x 15,3mm 0,8MPa KIWA	35,489
PVC PRESSUREPIPES PLAIN ENDED 630x 19,3mm 0,8MPa KIWA	56,309

PVC PRESSUREPIPES PLAIN ENDED 1,0MPa KIWA



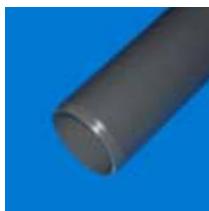
	Kg/m
PVC PRESSUREPIPES PLAIN ENDED 32x 1,6mm 1,0MPa KIWA	0,244
PVC PRESSUREPIPES PLAIN ENDED 40x 1,9mm 1,0MPa KIWA	0,357
PVC PRESSUREPIPES PLAIN ENDED 50x 2,4mm 1,0MPa KIWA	0,562
PVC PRESSUREPIPES PLAIN ENDED 63x 3,0mm 1,0MPa KIWA	0,870
PVC PRESSUREPIPES PLAIN ENDED 75x 3,6mm 1,0MPa KIWA	1,243
PVC PRESSUREPIPES PLAIN ENDED 90x 4,3mm 1,0MPa KIWA	1,779
PVC PRESSUREPIPES PLAIN ENDED 110x 4,2mm 1,0MPa KIWA	2,149
PVC PRESSUREPIPES PLAIN ENDED 125x 4,8mm 1,0MPa KIWA	2,765
PVC PRESSUREPIPES PLAIN ENDED 160x 6,2mm 1,0MPa KIWA	4,568
PVC PRESSUREPIPES PLAIN ENDED 200x 7,7mm 1,0MPa KIWA	7,043
PVC PRESSUREPIPES PLAIN ENDED 250x 9,6mm 1,0MPa KIWA	10,953

PVC PRESSUREPIPES PLAIN ENDED 1,25MPa KIWA



	Kg/m
PVC PRESSUREPIPES PLAIN ENDED 25x 1,5mm 1,25MPa KIWA	0,178
PVC PRESSUREPIPES PLAIN ENDED 32x 1,9mm 1,25MPa KIWA	0,282
PVC PRESSUREPIPES PLAIN ENDED 40x 2,4mm 1,25MPa KIWA	0,444
PVC PRESSUREPIPES PLAIN ENDED 50x 3,0mm 1,25MPa KIWA	0,681
PVC PRESSUREPIPES PLAIN ENDED 63x 3,8mm 1,25MPa KIWA	1,082
PVC PRESSUREPIPES PLAIN ENDED 75x 4,5mm 1,25MPa KIWA	1,525
PVC PRESSUREPIPES PLAIN ENDED 90x 5,4mm 1,25MPa KIWA	2,189
PVC PRESSUREPIPES PLAIN ENDED 110x 5,3mm 1,25MPa KIWA	2,663
PVC PRESSUREPIPES PLAIN ENDED 125x 6,0mm 1,25MPa KIWA	3,400
PVC PRESSUREPIPES PLAIN ENDED 160x 7,7mm 1,25MPa KIWA	5,576

PVC PRESSUREPIPES PLAIN ENDED 1,6MPa KIWA



	Kg/m
PVC PRESSUREPIPES PLAIN ENDED 12x 1,0mm 1,6MPa KIWA	0,056
PVC PRESSUREPIPES PLAIN ENDED 16x 1,5mm 1,6MPa KIWA	0,110
PVC PRESSUREPIPES PLAIN ENDED 20x 1,5mm 1,6MPa KIWA	0,140
PVC PRESSUREPIPES PLAIN ENDED 25x 1,9mm 1,6MPa KIWA	0,216
PVC PRESSUREPIPES PLAIN ENDED 32x 2,4mm 1,6MPa KIWA	0,349
PVC PRESSUREPIPES PLAIN ENDED 40x 3,0mm 1,6MPa KIWA	0,536
PVC PRESSUREPIPES PLAIN ENDED 50x 3,7mm 1,6MPa KIWA	0,825
PVC PRESSUREPIPES PLAIN ENDED 63x 4,7mm 1,6MPa KIWA	1,312
PVC PRESSUREPIPES PLAIN ENDED 75x 5,6mm 1,6MPa KIWA	1,856
PVC PRESSUREPIPES PLAIN ENDED 90x 6,7mm 1,6MPa KIWA	2,655
PVC PRESSUREPIPES PLAIN ENDED 110x 6,6mm 1,6MPa KIWA	3,251

PVC PRESSUREPIPES WITH RUBBERING SOCKET PN6 / 20° C (EN1452)



DN	d1	s1	t	D
50	63	2,0	101	84
65	75	2,3	106	98
80	90	2,8	112	116
100	110	2,7	120	139
125	125	3,1	131	172
150	160	4,0	140	196
200	200	4,9	163	268
250	250	6,2	185	331
300	315	7,7	197	370
400	400	9,8	245	527

PVC PRESSUREPIPES WITH RUBBERING SOCKET PN10 / 20° C (EN1452)



DN	d1	s1	t	D
50	63	3,0	101	84
65	75	3,6	106	98
80	90	4,3	112	116
100	110	4,2	120	139
125	125	4,8	131	172
150	160	6,2	140	196
200	200	7,7	163	268
250	250	9,6	185	331
300	315	12,1	197	370
400	400	15,3	245	527

PVC PRESSUREPIPES WITH RUBBERING SOCKET PN16 / 20° C (EN1452)



DN	d1	s1	t	D
50	63	4,7	101	84
65	75	5,6	106	98
80	90	6,7	112	116
100	110	6,6	120	139
125	125	7,4	131	172
150	160	9,5	140	196
200	200	11,9	163	268
250	250	14,8	185	331
300	315	18,7	197	370

d1 Outside diameter

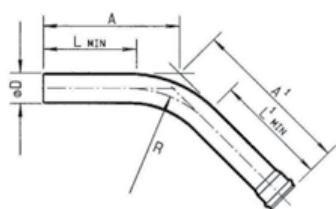
s1 Wall thickness

t Socket length

D Ring chamber width

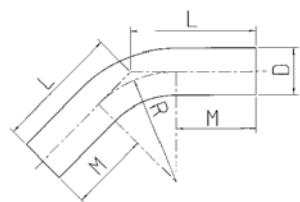
PRESSURE BENDS SINGLE SOCKET

OD	R	L	L1	11,25°		22,5°		30°		45°		90°	
				A	A1	A	A1	A	A1	A	A1	A	A1
63	220	95	191	178	299	211	332	233	354	278	399	457	578
75	262	113	214	219	345	258	384	280	406	336	462	548	674
90	315	135	241	220	351	259	309	282	413	339	470	555	686
110	385	165	279	230	369	291	430	320	459	378	517	665	804
125	438	188	307	286	430	327	471	367	511	446	590	778	992
160	560	240	374	358	517	416	575	471	630	583	742	1040	1199
200	700	300	449	530	704	590	764	647	821	761	935	1230	1404
250	875	313	481	528	721	610	803	689	882	852	1045	1510	1703
315	1103	394	585	651	867	776	982	882	1098	1120	1336	2093	2309
400	1400	500	718	845	1088	1000	1243	1149	1392	1468	1711	2825	3068



PRESSURE BENDS PLAIN ENDS

OD	R	M	L	11,25°		22,5°		30°		45°		90°	
				L	L	L	L	L	L	L	L	L	L
63	220	95	178	211	233	278	457						
75	262	113	219	258	280	336	548						
90	315	135	220	259	282	339	555						
110	385	175	230	291	320	378	665						
125	438	188	286	327	367	446	778						
160	560	240	358	416	471	583	1040						
200	700	300	530	590	647	761	1230						
250	875	313	528	610	689	852	1510						
315	1103	394	651	766	882	1120	2093						
400	1400	500	845	1000	1149	1468	2435						
500	1750	625	1105	1300	1487	1889							



Nominal (minimum) wallthickness

Nominal Outside Diameter	Nominal (minimum) Wallthickness. All measurements are in mm						
	S 20 SDR 41	S 16 SDR 33	S 12,5 SDR 26	S 10 SDR 21	S 8 SDR 17	S 6,3 SDR 13,6	S 5 SDR 11
	Nominal pressure PN based on service (design) coefficient C=2,5						
	PN 6		PN 8	PN 10	PN 12,5	PN 16	PN 20
12		-	-	-	-	-	1,5
16		-	-	-	-	-	1,5
20		-	-	-	-	1,5	1,9
25		-	-	-	1,5	1,9	2,3
32		-	1,5	1,5	1,9	2,4	2,9
40		1,5	1,6	1,9	2,4	3,0	3,7
50		1,6	2,0	2,4	3,0	3,7	4,6
63		2,0	2,5	3,0	3,8	4,7	5,8
75		2,3	2,9	3,6	4,5	5,6	6,8
90		2,8	3,5	4,3	5,4	6,7	8,2
	Nominal pressure PN based on service (design) coefficient C=2,0						
	PN 6	PN 8	PN 10	PN 12,5	PN 16	PN 20	PN 25
110	2,7	3,4	4,2	5,3	6,6	8,1	10,0
125	3,1	3,9	4,8	6,0	7,4	9,2	11,4
140	3,5	4,3	5,4	6,7	8,3	10,3	12,7
160	4,0	4,9	6,2	7,7	9,5	11,8	14,6
200	4,9	6,2	7,7	9,6	11,9	14,7	18,2
225	5,5	6,9	8,6	10,8	13,4	16,6	-
250	6,2	7,7	9,6	11,9	14,8	18,4	-
280	6,9	8,6	10,7	13,4	16,6	20,6	-
315	7,7	9,7	12,1	15,0	18,7	23,2	-
400	9,8	12,3	15,3	19,1	23,7	29,4	-
450	11,0	13,8	17,2	21,5	26,7	33,1	-
500	12,3	15,3	19,1	23,9	29,7	36,8	-
630	15,4	19,3	24,1	30,0	-	-	-

NOTE 1: The nominal wallthickness conform to ISO 4065:1996.

NOTE 2: To apply an overall service (design) coefficient of 2,5 (instead of 2,0) for pipes with nominal diameters above 90mm, the next higher pressure rating, PN, shall be chosen.

NOTE 3: The PN 6 value for S 20 and S 16 are calculated with the preferred number 6,3

Packing information

	No.length per packages	L= 5 meter	Meter per packages	3 x wood packing Package size in cm (L x W x H)*
12	3000	x 5	= 15000	500 x 124 x 109
16	3500	x 5	= 17500	500 x 124 x 109
20	2000	x 5	= 10000	500 x 124 x 109
25	1250	x 5	= 6250	500 x 124 x 109
32	1035	x 5	= 5175	500 x 124 x 109
40	660	x 5	= 3300	500 x 124 x 109
50	440	x 5	= 2200	500 x 124 x 109
63	272	x 5	= 1360	500 x 124 x 109
75	189	x 5	= 945	500 x 124 x 109
90	132	x 5	= 660	500 x 124 x 109
110	85	x 5	= 425	500 x 124 x 109
125	68	x 5	= 340	500 x 124 x 109
160	39	x 5	= 195	500 x 124 x 109
200	25	x 5	= 125	500 x 120 x 100
250	16	x 5	= 80	500 x 120 x 110
315	9	x 5	= 45	500 x 120 x 100
400	5	x 5	= 25	500 x 120 x 100
500	4	x 5	= 20	500 x 120 x 60
630	2	5	10	500 x 120 x 70

* If the length of the pipe differs from 5 meter, the L size will change.
e.g. 1 package of pipe Ø110mm with a pipe length of 6 meter will result in a package size of 600x122x95cm.
In case of socketed pipe the L size will increase with twice the length of the socket.



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Notes



