

### **DECLARATION OF CONFORMITY** TO **EUROPEAN DIRECTIVES**

I declare that the following products :

- Designation : PGA series, PEB/PESB series
- Description : Electric valves

Conform to :

- 73/23/CEE and 93/68/CEE for electrical safety.
- 89/336/CEE, 92/31/CEE, 93/68/CEE for electromagnetic compatibility.

The applicable standards in accordance with the technical file are:

- EN 60065 for electrical safety
- EN 55022 and EN 55024 for electromagnetic compatibility.

Aix-en-Provence, March 8, 2013





**Rain Bird Europe** 

900, Rue Ampère - B.P. 72000 - 13792 AIX-EN-PROVENCE CEDEX 3 (France) - Tél : 04 42 24 44 61 - Fax : 04 42 24 24 72 S.A.R.L au capital de 58.000 € - 301 367 363 RCS AIX-EN-PROVENCE Rain Bird Europe est certifiée ISO9001:2000 (AFAQ N° 1994 / 3021a) www.rainbird.fr





### DECLARATION OF CONFORMITY TO **EUROPEAN DIRECTIVES**

I declare that the following products :

Designation :	Rotors, spray heads
<b>Description</b> :	Irrigation sprinklers
Models:	3500 Series, 5000 Series, 1800 series, Uni Spray
	Series

conform to the catalog specifications.

There are no European Directives for these products and so, CE certificates are not applicable.

Aix-en-Provence. May 23th, 2014 S.B.I. ALEX



Europe Quality Manager

**Rain Bird Europe** 900, Rue Ampère - B.P. 72000 - 13792 AIX-EN-PROVENCE CEDEX 3 (France) - TØI : 04 42 24 44 61 - Fax : 04 42 24 24 72 S.A.R.L au capital de 58.000 € - 301 367 363 RCS AIX-EN-PROVENC Rain Bird Europe est certifiØe ISO9001:2000 (AFAQ N° 1994 / 3021a A(8 www.rainbird.fr 150 9001



### DECLARATION OF CONFORMITY TO EUROPEAN DIRECTIVES

I declare that the following products :

- Designation : DV series, JTV series
- Description : Electric valves

Conform to :

- 73/23/CEE and 93/68/CEE for electrical safety.
- 89/336/CEE, 92/31/CEE, 93/68/CEE for electromagnetic compatibility.

The applicable standards in accordance with the technical file are:

- EN 60065 for electrical safety
- EN 55022 and EN 55024 for electromagnetic compatibility.

Aix-en-Provence, March 8, 2005





Europe Quality Manager

Rain Bird Europe

900, Rue Ampère - B.P. 72000 - 13792 AIX-EN-PROVENCE CEDEX 3 (France) - Tél : 04 42 24 44 61 - Fax : 04 42 24 24 72 S.A.R.L au capital de 58.000 € - 301 367 363 RCS AIX-EN-PROVENCE Rain Bird Europe est certifiée ISO9001:2000 (AFAQ N° 1994 / 3021a) www.rainbird.fr



### **DECLARATION OF CONFORMITY**

I declare that the following product :

- Designation : IRRICABLE
- Description : multi-conductor irrigation cable

Conforms to :

CEI 60502-1 for all applicable characteristics. 

Aix-en-Provence. September 22, 2004





Europe Quality Manager

**Rain Bird Europe** 900, Rue Ampère - B.P. 72000 - 13792 AIX-EN-PROVENCE CEDEX 3 (France) - Tél : 04 42 24 44 61 - Fax : 04 42 24 24 72 S.A.R.L au capital de 58.000 € - 301 367 363 RCS AIX-EN-PROVENCE Rain Bird Europe est certifiée ISO9001:2000 (AFAQ N° 1994 / 3021a) www.rainbird.fr

# Product certificate K56747/03



 Issued
 2016-07-15

 Replaces
 K56747/02

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# Vulcanised rubber products for cold and hot drinking water applications

#### STATEMENT BY KIWA

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

### **Duram Industries A.C. LTD.**

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-K17504 "Vulcanised rubber products for cold and hot drinking water applications" dated 03-09-2009, inclusive amendment sheet dated, 07-02-2014.

Luc Leroy Kiwa

Publication of the certificate is allowed.

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

#### Supplier

Duram Industries A.C. LTD. 44930 KIBBUTZ RAMAT HAKOVESH Israel T +972 97474458 F +972 97474479 www.duram.co.il

> Certification process consists of initial and regular assessment of: • quality system • product

Sir Winston Churchillaan 273 Postbus 70 2280 AB RIJSWIJK The Netherlands

Tel. +31 88 998 44 00 Fax +31 88 998 44 20 info@kiwa.nl

Kiwa Nederland B.V.





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# Kiwa<sup>®</sup> Product certificate

#### Vulcanised rubber products for cold and hot drinking water applications

#### **PRODUCT SPECIFICATION**

The products as specified in the table below fulfil the requirements of BRL-K17504. BRL-K17504 covers the requirements of EN 681-1, "Elastomeric seals - Materials requirements for pipe joint seals used in water and drainage applications - Part 1: Vulcanized rubber".

Rubber Compound:	EPDM E701A				
Hardness:	70 IRHD	Field of application <sup>2</sup> :	I – WA	Remarks:	
Ozone Class <sup>1</sup> :	1	Production method:	Injection mold		
	Seal type	Easy Fit Seal		Seal type	O-ring
$\sim$	Nominal Dimensions	75 / 90,8 / 112,2 mm		Nominal Dimensions	15 / 19,2 / 24,0 / 31 / 62 / 108 mm
trans in 1998	Cross section	6 mm		Cross section	3 - 9 mm
Rubber Compound:	NBR N65WKZ59				
Hardness:	59 IRHD	Field of application <sup>2</sup> :	I – WA	Remarks:	
Ozone Class <sup>1</sup> :	Ш	Production method:	Injection mold		
	Seal type	Series 97 Fittings Shaped Seals	9	Seal type	Series 1 Seals Shaped Seals
	Nominal Dimensions	38 / 48,6 / 61,6 mm		Nominal Dimensions	38 / 48,6 / 60,6 mm
	Cross section	6 - 7 mm		Cross section	7 - 9 mm
	Seal type	O-ring			
	Nominal Dimensions	49 / 62 mm			
	Cross section	7 mm			
Rubber Compound:	NBR N65WKZ70				
Hardness:	70 IRHD	Field of application <sup>2</sup> :	I – WA	Remarks:	
Ozone Class <sup>1</sup> :	Ш	Production method:	Injection mold		
$\frown$	Seal type	O-ring			
	Nominal Dimensions	15 /19,2 / 24 / 31 / 39 / 74 / 89 / 108 / 122,2 mm			
	Cross section	3 - 10 mm			
I For produ or in case II For produ III For rubbe packages. 2 Field of applicatio I Water sup	of connections with p cts for which a norma rs which are never (p n class according to l pply at temperatures u	attack by ozone, for instanc reinstalled rubbers under si I resistance to ozone is requ artly) exposed to the open a BRL-K17504:	train; uired; ir when they are in tens	ion. Transport shall a	lways take place in sea

#### TECHNICAL SPECIFICATION OF THE PRODUCT

Field of application according to EN 681-1:

WA As in BRL-K17504 class I;

WB As in BRL-K17504 class II;

WE As in BRL-2013 class II, for IIR-copolymer;

Details of the products are included in the drawing list, which forms a part of the IQC schedule.

Kiwa authenticates this list. A copy of this list can be obtained from the producer.

# Kiwa<sup>®</sup> Product certificate

### Vulcanised rubber products for cold and hot drinking water applications

#### 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 drinken warm tapwatervoorziening" ("Materials and chemicals in the supply of drinking water and warm tap water Regulation"; 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 following marks and indications must be provided on each product<sup>#</sup> and product packaging in a clear, legible and indelible way:

- the name of manufacturer or the deposited trade mark;
- Kiwa (or Kiwa® word mark) and additionally the Kiwa watermark ♥
- the nominal dimension or dimensions;
- the nominal hardness;
- the year of manufacturing and preferably the quarter;
- type of rubber applied by means of the letter codes of the nomenclature according to ISO 1629;
- the application class (I, II or III);
- on products from blends, the letter B ("blend") shall be placed behind the first letter code;
- the ozone resistance class ("Ozone I, II or III"). For rubber rings made from two compounds the compound with the lowest class is valid.
- If the dimensions of the products are such that the indications applied to them may impair the product, the products may be marked per package in consultation with the manufacturer, the buyer and Kiwa. Products produced by cutting or die cutting out of sheets may be marked per package.

#### APPLICATION AND USE

The EPDM and NBR rubber rings are meant to be used in cold water applications (≤25°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:

- Duram Industries A.C. LTD.
- and, if necessary,
- Kiwa Nederland B.V.

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

# Polypropylene BA160E-8229-01

# STATEMENT ON COMPLIANCE TO REGULATIONS FOR DRINKING WATER PIPES

We confirm that this product and the monomers, additives and (if present) pigments used for its manufacturing are in compliance with the requirements of the following legislation:

Austria	Kunststoffverordnung Nr. 476/2003 und Änderungen 242/2005, 452/2006, 325/2007 und 140/2009
The Czech Republic	Vyhlaska Ministerstva zdravotnictvi c. 409/2005 Sb.
Denmark	Fødevaredirektoratets Bekendtgørelse nr.167 (03.03.2009)
EU	Regulation (EC) No 1935/2004 - so far applicable for raw materials Commission Directive 2002/72/EC amended by 2004/1/EC, 2004/19/EC, 2005/79/EC, 2007/19/EC, 2008/39/EC and Regulation (EC) 975/2009 Regulation (EC) 1895/2005 - BADGE, NOGE and BFDGE are not used for the production of this grade
Finland	KTM Asetukset 953/2002, 141/2005, 181/2005, 762/2006, 1065/2007 ja 107/2009
France	Repression des Fraudes (2002), No. 1227 et Arrêté du 2 janvier 2003, Arrêté du 29 mars 2005, Arrêté du 9 aout 2005, Arrêté du 19 octobre 2006, Arrêté du 25 avril 2008 et Arrêté du 19 novembre 2008
Germany	Bedarfgegenständeverordnung vom 23.12.1997 und Änderungen vom 21. Dezember 2000, 7. April 2003, 13. Juli 2005, 30. November 2006, 20. Dezember 2006 und 30. April 2008, sowie Empfehlung des Umweltbundesamtes: Leitlinie zur hygienischen Beurteilung von organischen Materialien in Kontakt mit Trinkwasser (KTW-Leitlinie), Tabelle 1 "Kunststoffe", Stand: 07.10.2008
Italy	Decreto Ministeriale 06.04.2004 N. 174
The Netherlands	Staatstoezicht op de Volksgezondheit, Publikatie 94-01, Deel B, 1.3. Polypropeen
Norway	Sosial- og helsedepartementets forskrift 1993-12-21-1381
Sweden	Statens Livsmedelsverks kungörelse LIVSFS 2003:2 och ändr. LIVSFS 2004:31, 2005:14, 2005:28, 2006:6, 2006:20, 2008:7, 2009:2
Spain	Real Decreto 118/2003, R.D.1262/2005, SCO/3508/2006 y ANAIP (1982), Anexo 1, Anexo 4
Switzerland	Verordnung der EDI über Bedarfsgegenstände 23.11.2005; Stand 01.01.2009, 3. Abschnitt Bedarfsgegenstände aus Kunststoff

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# Polypropylene BA160E-8229-01

National approvals	This statement is no warranty, that articles, made from this material and intended to be used in contact with drinking water, will fit the technical requirements as defined in the approval schemes of the above listed countries.
	Materials and articles intended to be used in contact with drinking water in many countries have to be approved by authorised national laboratories. For that purpose Borealis is prepared to provide those laboratories detailed information on the composition of this grade on request.
Prepared by	Borealis Group Product Stewardship / Jürgen Emig

#### Disclaimer

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.



# Products and Materials Database Search Results

#### • WRAS Approval Number: 1402508 - Approved Material

N65WKZ. Black coloured, injection moulded NBR rubber material. Shore hardness 70. Tested in-radius size 1.0mm. For use with water up to 60°C.

- Section: 5395 Rubbers
- **Section Subtitle:**Nitrile (Acrylonitrile Butadiene) material only. Components made from materials listed in this section may be required t more
- WRAS Approval Number: 1402508
- Expiry date: 28/02/2019
- Supplier: Duram Industries A C Ltd | View All Listings by this Company

# Polypropylene BA160E-8229-01

Polypropylene Heteroplastic Copolymer for Injection moulding

#### Description

**BA160E-8229-01** is an impact polypropylene heterophasic copolymer (block copolymer) with optimised mechanical properties, intended for injection moulding of compression pipe fittings and is coloured black

The product features very good processability. It also shows excellent stress crack resistance and a good resistance to chemicals. BA160E-8229-01 is characterised by a combination of high stiffness and high impact strength, also at low temperatures. BA160E-8229-01 has a ß-crystalline molecular PP structure which improves the mechanical properties as well as the crystallisation temperature. This allows for cycle time reduction during injection moulding through higher demoulding temperatures and shorter cooling time.

BA160E-8229-01 is classified as an MRS 8.0 material (PE80). The additive formulation is designed for appropriate durability

#### Applications

**BA160E-8229-01** is especially recommended for injection moulding of pipe compression fittings/mechanical pipe joints.

Drinking water Irrigation Industrial applications

#### **Physical Properties**

Property	Typical Value Data should not be used for	Test Method specification work	
Density	900 kg/m3	ISO 1183	
Melt Flow Rate (230 °C/2,16 kg)	0,3 g/10min	ISO 1133	
Tensile Modulus (1 mm/min)	1.300 MPa	ISO 527-2	
Tensile Strain at Yield (50 mm/min)	11 %	ISO 527-2	
Tensile Stress at Yield (50 mm/min)	30 MPa	ISO 527-2	
Heat Deflection Temperature B	89 °C	ISO 75-2	
Vicat softening temperature B50, (50 N)	86 °C	ISO 306	
Charpy Impact Strength, notched (23 °C)	50 kJ/m <sup>2</sup>	ISO 179/1eA	
Charpy Impact Strength, notched (-20 °C)	5 kJ/m²	ISO 179/1eA	

#### **Processing Techniques**

BA160E-8229-01 is easy to process with standard injection moulding machines.

Following parameters should be used as guidelines:	
Melt temperature	230 - 260 °C
Holding pressure	As low as possible
Mould temperature	10 - 40 °C

Shrinkage 1 - 2 %, depending on wall thickness and moulding parameters





# Polypropylene BA160E-8229-01

#### Storage

**BA160E-8229-01** should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product. has a shelf life of 18 months from production date if stored in unopened original packages, under dry and clean conditions at temperatures between 15 - 25 °C.

#### Safety

The product is not classified as dangerous.

#### Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borealis representative.

#### **Related Documents**

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

Recovery and disposal of polyolefins Information on emissions from processing and fires "Safety data sheet" / "Product safety information sheet" Statement on compliance to food contact regulations Statement on compliance to regulations for drinking water pipes

www.borealisgroup.com





#### Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

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### Elysee

Join the Professionals! The professional's choice for complete solutions in piping systems.

Best value for money. Top quality at competitive prices

**One- stop shop experience.** Elysee offers a complete range with 2500 products.

**Extensive Know-how.** Through 40 years of experience Elysee has a leading presence in the area of Plastic Piping Systems, Water Supply, Irrigation, Sewage Systems and Cable Management Systems.

**Truly International.** Presence in 60 countries in all 5 continents through an ever-increasing family of distributors.

**Top class manufacturing.** Sustainability through solid innovation, growth of people and care for nature.

**Reliability & Quality Assurance.** Elysee is certified by the most reputable international standardization organizations such as DVGW, OVGW, WRAS and KIWA among others.

**High-quality user experience.** Elysee products are designed with close cooperation with the end user. Designed for robust handling, ease of installation and long-term performance.

### Vision

Be a sustainable World Class supplier in piping systems through: Constant profitability, a leading position in our local markets, advanced technology and High-added-value products in worldwide markets.

Love for water led to Elysee conception more than 30 years ago. Commitment to quality and long term vision led to the success of the Company making it the largest production unit in the country on piping systems for Water supply, Irrigation, Sewage and Energy.

# Technology and Quality Assurance

Ever since its foundation, quality has been one of the company's top priorities.

Thanks to the introduction of a complete quality management system, the company monitors all its activities and their applications, from raw materials to the end product with an aim to optimize overall performance.

A well-equipped testing room with qualified and devoted staff, situated on site, ensures that every product is tested according to the standards already set.

Continuous monitoring of the receiving, production and storing processes, ensures that the end products conform to the National and International Quality Standards.

Our Research and Development department is responsible for conducting research and experimental study, with an aim to develop new and existing products and to improve all phases of production, in terms of productivity, implementation of procedures and efficiency of operations. The company applies the principles of Lean Manufacturing, according to International Best Practices in Industry.

## International Presence

Elysee has presence in 60 countries in all 5 continents, gained through 40 years of presence in the global markets. Elysee has active involvement in European and International Standards development reflected in our international manufacturing facilities in Cyprus, Austria, Italy, Greece and Lebanon.





# Certificates

Some of Elysee's certifications are as follows:





**DVGW** Product Certificate

**KIWA Product Certificate** 



WRAS Product Certificate



**OVGW** Product Certificate



AS/NZS 4129 Product Certificate



EN 12201 Product Certificate





DVGW



kiwa 🕥

WRAS.



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Moreover, Elysee fittings are certified locally in several countries worldwide such as: Bulgaria, Moldova, Poland, Romania, Russia, Ukraine, etc.

#### TECHNICAL MANUAL / COMPRESSION FITTINGS



# Introduction

Elysee offers a complete range of mechanical compression fittings designed for conveyance of fluids, gaseous fuels, compressed air, chemical solutions and slurries under high pressure.

Our mechanical compression fittings comply with all relevant international standards in terms of dimensions and mechanical properties.

They are also ideal for the conveyance of potable water and fluids for human consumption, since they are produced in accordance with national and international standards and regulations for health and safety.

To ensure that all requirements of standards and regulations are fulfilled, our fittings are tested regularly and approved worldwide by the main testing institutes and certification bodies.



### Certificates









### **Technical Data**

#### **Quality Management**

Our Quality management system ensures top-class products in terms of performance, reliability and durability. This is a crucial parameter to ensure customer satisfaction and loyalty. Elysee quality system, ISO 9001:2008, is approved by CCC and IQNet.

Since Quality is subjective and it is a matter of personal opinion and what constitutes an acceptable level of quality will vary from one individual to another, a process was adopted to classify the quality levels. This process called "product certification", which verifies that products conform to applicable standard, results in the issuing of a statement or certificate of conformity and approval to apply the relevant standard to the product.

Our production facilities are inspected regularly, where random products are tested to ensure their continued compliance with the relevant standards. Once the products are determined to meet such standards, the certification body reissues the product certification documents. The complete range of mechanical compression fittings of Elysee Irrigation have been tested and approved by all leading certification bodies, including DVGW (D), KIWA (NL), WRAS (GB), BV (AUS) and many others worldwide. Furthermore, Elysee fittings are honored with product certifications on all related standards such as ISO 14236, EN 12201, DIN 8076 and AS/ NZS 4129.

#### **Dimensions and Characteristics**

Our fittings comply with the dimensional requirements and characteristics of the following relevant standards:

- EN 712 / 713 / 715 / 911
- ISO 3458 / 3459 / 3501 / 3503 ISO 14236
- DIN 8076 (Performance Series)

#### Application Fields

Our fittings are suitable for joining high and low density polyethylene pipes (PE-HD, PE-LD, PE40, PE63, PE80, PE100) conforming to:

- EN 12201
- ISO 3607 / 14236
- DIN 8072 / 8074

#### Fluids other than Water

The fitting may convey a wide variety of fluids. *Note:* Refer to chemical resistance section for additional information. Contact us for advice on specific applications.

#### Operating pressure

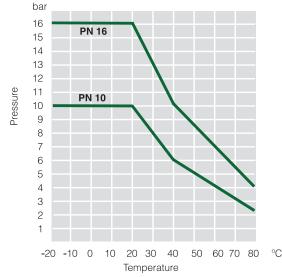
For fittings from Ø16 up to Ø63 mm - 16 bar For fittings from Ø75 up to Ø110 mm - 12.5 bar *Note:* System temperature should not exceed 20°C. Refer to operating temperature section for more details.

#### Effect on Water

Water is essential to health and to the preservation of the environment. Water quality is commonly defined by its physical, chemical, biological and aesthetical (appearance and smell) characteristics. A healthy environment is one in which the water quality supports a rich and varied community of organisms and protects public health. Unsuitable non-metallic materials can cause changes in the quality of the water that they are in contact with. These changes can affect the flavor and appearance of the water, as well as introducing toxic substances and promoting microbial growth. Over thirty years ago some specific methods were developed to study how materials could affect water quality. The methods developed then were used to develop the current Standards for testing non-metallic materials in contact with drinking water. All fittings intended to be used for potable water supply systems or agricultural practices should be manufactured according the requirements of the relevant standards. Elysee fittings fully conform to international hygiene and sanitary requirements specified by standards such as BS6920 (UK), KTW (DE) and AUS/NZ 4020 (AUS).

#### **Operating Temperature**

The fittings are not to be used in hot water although they withstand the same temperature as the polyethylene pipe itself. The fittings withstand sub-zero temperatures. The pressure rating has to be adjusted as shown in the figure below, if the fittings are to be used at higher temperatures.



#### Resistance to Impact

The thermoplastic materials used for manufacturing the fittings have excellent impact properties.

#### Abrasion Resistance

The fittings are suitable for the transportation of abrasive slurries and will withstand normal conditions found in urban, mining, industrial, rural water and waste water systems.



#### Electrolytic Corrosion

Plastic fittings are non-magnetizing and do not cause electrolytic deterioration.

#### Weathering

Elysee fittings offer excellent weathering properties which protects against degradation due to ultraviolet radiation. Therefore, their use is permissible on exposed systems without additional protection.

#### Projected life Expectancy

Based on the information available and the successful performance under the nominated test regime, the life expectancy is rated at 50 years before replacement or major repair. This rating is only a general guide to life expectancy and may increase or decrease depending on the quality of the installation, system operation and environment conditions as well as other geographical and site-specific factors.

#### Threading

Threads (BSP) are manufactured according to: ISO 7, DIN 2999 and BS 21.

Threads (NPT) are manufactured according to: ANSI/ASME B1.20.1. All internal (female) threads smaller than 3" are parallel. All other threads (male and female) are tapered.

It is recommended that PTFE tape is used when making threaded joints/connections. Any other sealing compound must be confirmed as suitable. Assembly should be carried out by hand and final tightening by a strap wrench, if necessary. Extra care must be taken not to over tighten and otherwise damage the thread.

#### Effects of Chemicals on Fittings

Chemicals can affect the strength, flexibility, surface appearance, colour, dimensions or weight of polypropylene. The basic modes of interaction causing these changes are:

- 1. Chemical attack on the polymer chain, which results in the reduction of physical properties, including oxidation, reaction of functional groups in or on the chain.
- 2. Depolymerisation.
- 3. Physical change, including absorption of solvents resulting in softening and swelling of the plastic, permeation of solvent through the plastic and dissolution in a solvent.
- 4. Stress cracking from the interaction of a "stress cracking agent" with internal or external stresses.
- 5. The Chemical Resistance Chart that follows is a general guide only. Since several factors can affect the chemical resistance of a given product, they should be tested specifically under the required conditions. If the inquired chemical is not included in the following table, a more detailed chart will be made upon request.



#### **Thermal Insulation**

Polypropylene has a natural thermal insulation of 2000 times over copper and 200 times over steel.

#### Light Transmission

The all black fitting does not transmit light, thus protecting the water quality in potable water pipelines against growth of micro organisms.

#### Pressure Drop (Head losses)

To determine the total pressure drop in the system, the total straight pipe length calculated for the fittings is added to the total straight pipe length to obtain the total drop. The pressure drop in fittings can be calculated with the following formula:

 $L = ID \times K$ 

- L = Head loss based on equivalent pipe length (m) ID = Pipe inner diameter (m)
- K = Fitting constant as shown on table

Fitting Type	К
Elbow 90°	30
Tee 90°(Straight through)	12
Tee 90° (Side branch)	60
Bends 90°	12
Reducing Bush (per size reduction)	15



#### Polypropylene PP - Chemical Resistance

Chemical	Concentration	PP-B	NBR	Chemical	Concentration	PP-B	NBR
Acetic acid	10%	Α	А	Lubricating oils		В	A
Acetic acid	50%	А	С	Methane (natural gas)	tg-G	А	A
Acetone	tg-L	А	С	Methanol (methyl alcohol)	tg-L	А	A
Benzene	tg-L	В	В	Methyl acetate	tg-L	А	С
Benzine	Work-S	В	А	Methyl chloride	tg-G	С	С
Benzoic acid	Saturated	А	Α	Methylene acetate	tg-L	В	С
Boric acid	Saturated	А	A	Methyl ethyl ketone	tg-L	А	С
Butyl acetate	tg-L	В	С	Nitric acid	6.30%	А	С
Calcium hydroxide	Saturated	А	Α	Oleic acid	tg-L	А	В
Carbon dioxide, gas	tg-G	А	А	Oxalic acid	Saturated	А	В
Carbon disulphide	tg-L	Α	С	Oxigen	tg-G	А	С
Carbon monoxide, gas	tg-G	Α		Ozone	tg-G		С
Carbon tetrachloride	tg-L	С	С	Petroleum	Work-S	А	A
Caustic soda solution	50%	А	В	Petroleum ether	Work-S	В	В
Chlorine, gas	tg-L	С	С	Phenol	10%	А	С
Chlorine, water	Saturated	А	С	Phenylhydrazine	tg-L	В	С
Chloroacetic acid, mono	Solution	Α	С	Phosphoric acid	50%	А	B
Chloroform	tg-L	В	С	Phosphorus chlorides	tg-L	Α	С
Chlorosulphonic acid	tg-S	С	C	Phosphorus pentoxide	tg-L	А	B
Citric acid	10%	A	A	Phtalic acid	Saturated	Α	С
Compressed air with oil		B	A	Potassium carbonate	Saturated	A	A
Cyclohexane	tg-L	A	A	Potassium nitrate	50%	A	A
Cyclohexanol	Saturated	A	B	Potassium sulphate	Saturated	A	A
Cyclohexanone	tg-L	B	C	Propane	tg-L ; tg-G	A	A
Diesel oil		B	A	Proponic acid	50%	A	C
Ethyl alcohol	tg-L	A	A	Sodium acetate	Saturated	A	A
Ethyl alcohol + acetic acid		A	B	Potassium permanganate	Saturated	A	B
Ethyl benzene	tg-L	B	C	Potassium persulphate	Saturated	A	C
Ethyl chloride	tg-G	B	C	Sodium acetate	Saturated	A	A
Ethyl eter	tg-L	A	C	Sodium chlorate	Saturated	A	A
Ethylene chloride	tg-L	B	B	Sodium hydroxide	40%	A	A
Fluorine	tg-G	C	C	Sodium Hypochlorite	12.50%	B	C
Formic acid	50%	A	C	Sodium sulphate	Saturated	A	A
Frigen 12 (Freon 12)	Work-S	C	B	Sulphur dioxide	ta-G	A	C
Fuel oil (Gasoline)	Work-S	B	A	Sulphur trioxide	tg-G	C	C
Gelatine	Solution	A	A	Sulphuric acid	40%	A	B
Glucose	Solution	A	A	Sulphurous acid	Saturated	A	C
Glycerine	tg-L	A	A	Sulphuryl chloride	tg-L	C	C
Glycolic acid	37%	A	A	Tartaric acid	Saturated	A	A
Heptane	tg-L	A	A	Tetrachloroethane	tg-L	B	C
Hexane	tg-L	A	A	Toluene	tg-L	B	C
Hydrobromic acid	50%	A	B	Trichloroethane	tg-L	B	C
Hydrochloric acid	10%	A	B	Trichloromethane	tg-L	B	C
Hydrocyanic acid	tg-L	A	B	Triethanolamine	Solution	A	B
Hydrofluoric acid	40%	A	C	Trioctyl phosphate	Condition	A	B
Hydrogen	tg-G	A	A	Turpentine oil		C	A
Hydrogen chloride	tg-G	A	B	Vegetable oils and fats		A	A
Hydrogen peroxide	10%	A	B	Vinegar	Work-S	A	C
Hydrogen sulphide	Saturated	A	B	Vinyl acetate	tg-L	A	A
Lactic acid	10%	A	C	Xylene	tg-L	C	C
	10 /0	A		Луненне	iy-L		

Notes of Table:

C -

A - Resistant no indication that serviceability would be impairedB - Variable resistance, depending on conditions of use

Not resistant, not recommended for service applications under any conditions Diluted = Diluted solution in concentrations up to 10%

Solution = Solution in concentrations up to10% but not saturated Saturated = Saturated solution

tg-L = Pure substance in liquid state

tg-G = Pure substance in gaseous state

tg-S = Pure substance in solid state

Work-S = Solution in the concentration usually used in the industry



## Warranty

All our products are warranted for a period of TWO (2) YEARS from the delivery date. Our warranty includes the repair or replacement of defective parts in our production plant or in the after-sale service location. Replacement or repair of parts under this warranty will not extend the warranty period of the original product. Such parts carry their own warranty.

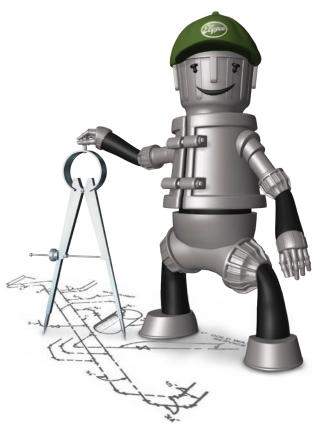
For this warranty to be effective, the buyer must certify the date of acquisition and reception of the product and follow the manufacturer's indications.

No warranties are given in regard to normal wear and tear due to use of the products. Regarding consumable components and/or materials, the provision contained in the accompanying documentation shall apply.

This warranty does not cover those cases in which the product:

- Has been incorrectly handled
- Has been repaired, maintained, or modified by an unauthorized person
- Has been repaired or maintained with other than original pieces
- Has been installed or placed in operation incorrectly

Except from mandatory regulations to the contrary, the expenses for return and shipment of defective materials shall be paid by the buyer. The present warranty does not limit or prejudice the rights of consumers under national mandatory standards.



### Materials & Components



1. BODY - Polypropylene PP-B / 2. O-RING - Nitrile Rubber (NBR 70 / 3. INSERT - Polypropylene PP-B / 4. SPLIT RING -Polyacetal / 5. NUT - Polypropylene PP-B

**BODY** - It is the main and most important component of the fitting system. It can be shaped in several dimensions and configurations to satisfy the requirements and arrangements of fluid's direction. It has a snagging arrangement internally to position the O-ring and insert, ensuring leak tightness when assembled with a pipe.

A male trapezoidal thread is used externally to join the body with the nut. The body is made with black high performance polypropylene copolymer PP-B. It offers an excellent long-term pressure resistance and also high impact resistance compared to other plastic materials.

**NUT** - The main purpose of this component is the tightening of pipe with the fitting system. Internally, a female trapezoidal thread is applied to enable the connection with the fitting body. Externally, it has an ergonomic designed surface for easy handling during assembly with a pipe. Made by black high performance polypropylene copolymer PP-B.

**INSERT** - Main purpose of this component is to secure the o-ring and keep it in position during handling and operation. Made by black high performance polypropylene copolymer PP-B.

**O-RING** - Main purpose of this component is to ensure leaktightness between the fitting system and the inserted pipe. Made by Nitrile rubber (NBR 70) with the ability to withstand high service temperature, excellent compression set, tear, and abrasion resistance.

**SPLIT RING** - Main purpose of this component is to ensure optimum grip between the fitting system and pipe. Internally, several sharp triangular teeth are applied and are in contact with pipe when inserted to the fitting system. Externally, conical ribs are applied to fit and tight progressively on cap's cone and pipe while pressure is applied in the system or pulling force is increased. Made by high performance polyacetal material with sufficient stiffness and hardness to provide high-end load resistance. Can be used to join all types of polyethylene pipes.



## Testing of Fittings



Several tests are carried out to verify the compliance of compression fittings with the relevant standards through in-house testing as well as tests in external accredited laboratories. Furthermore, all quality procedures and practices are checked from reception of raw material at the stores until delivery of the fittings to customers.

#### Testing of Raw Material (MRS value):

The selected raw materials of the fitting body (PP-B) is tested for long-term physical behavior with successful MRS values in the range of 10 MPa, being the highest in the market.

#### Internal Pressure Test Of Fitting Body:

- (i) All fitting bodies are tested under hydrostatic pressure at 20°C, 2.5 times the indicated pressure rating of the fitting (For ex. COUPLING 32mm is tested for one hour at 40 bar without any failure).
- (ii)All fitting bodies are also tested under longterm hydrostatic pressure at 95°C, 0.4 times the indicated pressure rating of the fitting (For ex. 90° TEE 50 mm is tested for 1000 hours at 6.4 bar without any failure).

#### Pull-Out Test Of The Compression Fittings Connected With PE-Pipes:

The entire assembly, body with pipe is tested for pull-out force in relation to the pressure rating of the connected pipe (For ex. Coupling 63mm is tested with a pull-out force of 11,256 N when connected with PN16 pipe, without any failure).

## Internal Pressure Test Of Compression Fitting Fixed With PE-Pipes:

The entire assembly, body with pipe, is tested in long-term under hydrostatic pressure at 40°C, 0.8 times the indicated pressure rating (For ex. 90° ELBOW 40mm is tested for 1000 hours at 12.8 bar without any failure).

#### Leak Tightness Against Low Pressure:

The entire assembly, body with pipe, is tested at negative pressure or vacuum at 20°C (For ex. END PLUG 25mm is tested for 1 hour at -0.8 bar followed by -0.2 bar without any failure).

#### Leak Tightness Under Bending:

The entire assembly, body with pipe, is tested by bending the pipe on the prescribed radius under hydrostatic pressure at 20°C, 1.8 times the indicated pressure rating (For ex. MALE ADAPTOR 20mm is tested for 1 hour at 28.8 bar without any failure).

#### Melt Mass-Flow Rate (MFR):

The Mass Flow Rate of the fitting body is measured and then compared in opposition to the measured mass flow rate of the raw material. The difference between the two values should not exceed the 10%.

### Hygienic Testing of the Fitting's Body and the Sealing Ring:

These tests are carried out through external laboratories and their certificates are supplied by the manufacturer, respectively.



## Assembly Instructions

### Sizes 16 Up to 63 mm



- Undo the nut up to the last thread. Do not remove the nut from the body.
- Cut the pipe straight, remove burrs & chamfer the end of the pipe with a chamfering tool.
- Mark the length on the PE pipe, to which the pipe must be pushed in the fitting.
   \*Lubricate the end pipes.

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- Cut the pipe straight, remove burrs & chamfer the end of the pipe with a chamfering tool.
- Apply the nut & split ring onto the end of the pipe to a distance of about twice the pipe diameter.
- Keep the O-ring and insert fixed on the body.
- Assembly is made easier by lubricating pipe, O-ring & inside of fitting with silicone lubricant.



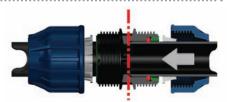
• Push the PE pipe into the fitting, through the nut, split the ring and O-ring, as far as it will go until it meets the 1st resistance. (The mark on the pipe is now just in front of the nut).



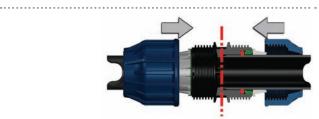
• Firmly hand tighten the nut. For sizes of 40mm and above, use a wrench for a further half turn for final tightening.

### Notes:

- Lubrication of the pipe end is optional and will ease insertion of the pipe (use silicone lubricant).
- The fitting can safely be used again after disassembling.
- The full hydraulic seal is achieved when the pipe passes through the O-ring.



• Insert pipe into the fitting until it stops at the step.



• Push nut & split ring forward until they reach the fitting.



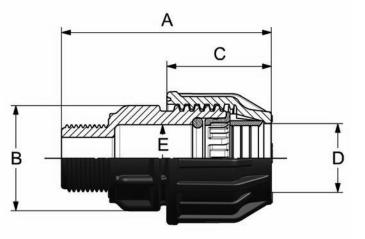
- Tighten the nut by means of two special Elysee wrenches.
- Nut should be closed firmly but does not need to actually meet the body.



#### MALE ADAPTOR No. 330

	SIZE (mm x in)		NOMIN	IAL DIMEN (mm)	SIONS	
		А	В	С	D	E
330001601	16 X ½	70.13	34.00	35.00	17.50	17.50
330001602	16 X ¾	71.88	34.00	35.00	17.50	17.50
330002001	20 X ½	88.35	41.50	39.50	22.20	21.50
330002002	20 X ¾	88.35	41.00	39.50	22.20	21.50
330002002	20 X 1	91.85	42.50	39.50	22.20	21.50
330002501	25 X ½	92.38	46.00	41.25	26.75	26.50
330002502	25 X ¾	82.63	46.00	41.25	26.75	26.50
330002503	25 X 1	84.13	46.00	41.25	26.75	26.50
330003201	32 X ½	100.25	56.25	51.75	34.00	33.50
330003202	32 X ¾	95.25	55.50	51.75	34.00	33.50
330003203	32 X 1	96.25	55.50	51.75	34.00	33.50
330003204	32 X 1¼	98.75	55.50	51.75	34.00	33.50
330003205	32 X 1½	99.25	55.50	51.75	34.00	33.50
330004003	40 X 1	110.13	69.50	60.75	41.50	42.00
330004004	40 X 1¼	108.88	68.50	60.75	41.50	42.00
330004005	40 X 1½	109.38	69.75	60.75	41.50	42.00
330004006	40 X 2	112.63	69.00	60.75	41.50	42.00
330005003	50 X 1	129.58	81.25	60.75	41.50	53.00
330005004	50 X 1¼	132.33	80.50	60.75	41.50	53.00
330005005	50 X 1½	124.08	79.50	60.75	41.50	53.00
330005006	50 X 2	127.08	79.50	60.75	41.50	53.00
330006305	63 X 1½	166.00	98.50	82.75	64.50	65.00
330006306	63 X 2	164.75	97.50	82.75	64.50	65.00
330006307	63 X 2½	164.25	99.00	82.75	64.50	65.00
330007506	75 X 2	171.95	117.50	107.50	76.00	77.50
330007507	75 X 2½	172.95	117.50	107.50	76.00	77.50
330007508	75 X 3	176.70	116.50	107.50	76.00	77.50
330009006	90 X 2	199.83	136.50	131.25	94.00	92.75
330009007	90 X 2½	201.33	137.50	131.25	94.00	92.75
330009008	90 X 3	207.33	138.00	131.25	94.00	92.75
330009009	90 X 4	213.58	137.00	131.25	94.00	92.75
330011006	110 X 2	241.80	164.00	166.50	112.50	113.25
330011008	110 X 3	250.55	164.25	166.50	112.50	113.25
330011009	110 X 4	257.05	164.25	166.50	112.50	113.25





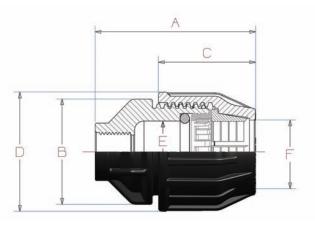




#### FEMALE ADAPTOR No. 330A

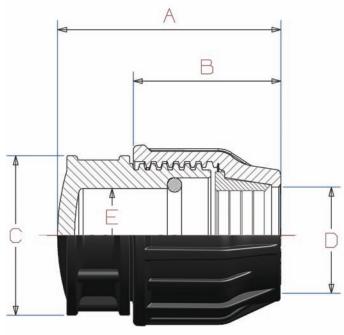
CODE	SIZE (mm x in)		NOMINAL DIMENSIONS (mm)					
		A	В	С	D	E	F	
330A01610	16 X <sup>3</sup> /8	71.88	36.75	35.00	39.25	17.50	17.50	
330A01601	16 X ½	73.38	34.25	35.00	39.25	17.50	17.50	
330A01602	16 X ¾	72.88	34.25	35.00	39.25	17.50	17.50	
330A02001	20 X ½	70.10	40.50	39.50	46.00	22.00	22.20	
330A02002	20 X ¾	70.35	41.00	39.50	46.00	22.00	22.20	
330A02501	25 X ½	73.13	46.50	41.25	52.50	26.50	26.75	
330A02502	25 X ¾	73.13	46.50	41.25	52.50	26.50	26.75	
330A02503	25 X 1	77.88	54.00	41.25	52.50	26.50	26.75	
330A03201	32 X ½	86.25	56.00	51.75	63.75	33.50	34.00	
330A03202	32 X ¾	86.25	56.00	51.75	63.75	33.50	34.00	
330A03203	32 X 1	87.75	56.00	51.75	63.75	33.50	34.00	
330A03204	32 X 1¼	101.75	68.75	51.75	63.75	33.50	34.00	
330A03205	32 X 1½	103.75	55.75	51.75	63.75	33.50	34.00	
330A04003	40 X 1	115.13	70.00	60.75	78.25	41.50	41.50	
330A04004	40 X 1¼	106.38	68.25	60.75	78.25	41.50	41.50	
330A04005	40 X 1½	106.63	69.00	60.75	78.25	41.50	41.50	
330A05004	50 X 1¼	120.58	82.50	68.50	92.50	51.50	51.50	
330A05005	50 X 1½	122.33	82.75	68.50	92.50	51.50	51.50	
330A05006	50 X 2	132.58	74.25	68.50	92.50	51.50	51.50	
330A06305	63 X 1½	141.75	99.00	82.75	109.00	64.50	64.50	
330A06306	63 X 2	151.50	99.00	82.75	109.00	64.50	64.50	
330A06307	63 X 2½	153.00	99.00	82.75	109.00	64.50	64.50	
330A07506	75 X 2	167.95	116.50	107.50	132.50	77.25	76.00	
330A07507	75 X 2½	172.70	117.00	107.50	132.50	77.25	76.00	
330A07508	75 X 3	173.20	117.00	107.50	132.50	77.25	76.00	
330A09007	90 X 2½	208.58	136.50	131.25	151.50	91.50	94.00	
330A09008	90 X 3	221.08	137.50	131.25	151.50	91.50	94.00	
330A09009	90 X 4	219.58	156.50	131.25	151.50	91.50	94.00	
330A11008	110 X 3	279.55	156.50	166.50	175.50	112.50	112.50	
330A11009	110 X 4	292.55	157.00	166.50	175.50	112.50	112.50	





#### END PLUG No. 330B

CODE	SIZE (mm)	NOMINAL DIMENSIONS (mm)						
		A	В	С	D	E		
330B00016	16	54.88	35.00	34.50	17.50	17.50		
330B00020	20	63.85	39.50	41.25	22.20	22.00		
330B00025	25	66.63	41.25	46.25	26.75	26.50		
330B00032	32	78.00	51.75	55.75	34.00	33.50		
330B00040	40	89.63	60.75	69.00	41.50	41.50		
330B00050	50	104.58	68.50	80.00	51.50	51.50		
330B00063	63	125.75	82.75	98.00	64.50	64.50		
330B00075	75	149.70	107.50	117.50	76.00	77.00		
330B00090	90	175.33	131.25	137.00	94.00	92.00		
330B00110	110	224.80	166.50	164.00	112.50	113.25		

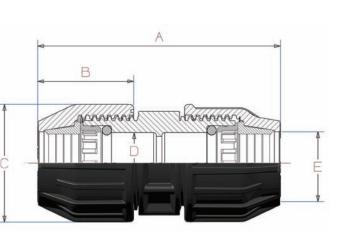


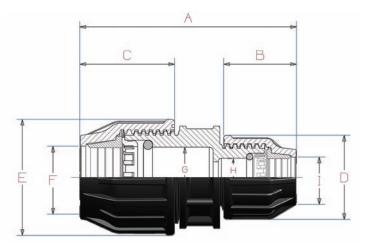


COUPLING No. 331



CODE	SIZE (mm x mm)		NOMINAL DIMENSIONS (mm)						
		А	В	С	D	E			
331016016	16 x 16	89.00	35.00	39.25	17.50	17.50			
331020020	20 x 20	104.00	39.50	46.00	22.00	22.20	3		
331025025	25 x 25	109.00	41.25	52.50	26.50	26.75			
331032032	32 x 32	132.00	51.75	63.75	33.50	34.00			
331040040	40 x 40	146.00	60.75	78.25	41.50	41.50			
331050050	50 x 50	174.40	68.50	92.50	51.50	51.50	(		
331063063	63 x 63	208.00	82.75	109.00	64.50	64.50			
331075075	75 x 75	250.90	107.5	132.50	77.25	76.00			
331090090	90 x 90	293.40	131.25	151.50	91.50	94.00			
331110110	110 x 110	382.60	166.50	175.50	112.50	112.50	17		





#### REDUCING COUPLING No. 331A

CODE	SIZE (mm x mm)				NOMIN	AL DIMEN (mm)	SIONS			
		А	В	С	D	E	F	G	Н	I
331A02016	20 X 16	99.98	35.00	39.25	39.50	46.00	22.20	22.00	17.50	17.00
331A02516	25 X 16	101.50	35.00	39.25	41.25	52.50	26.75	26.50	17.50	17.00
331A02520	25 X 20	106.48	39.50	46.00	41.25	52.50	26.75	26.50	22.20	21.50
331A03220	32 X 20	120.10	39.50	46.00	51.75	63.75	34.00	33.50	22.20	21.50
331A03225	32 X 25	125.38	41.25	52.50	51.75	63.75	34.00	33.50	26.75	26.50
331A04025	40 X 25	129.75	41.25	52.50	60.75	78.25	41.50	41.50	26.75	26.50
331A04032	40 X 32	140.38	51.75	63.75	60.75	78.25	41.50	41.50	34.00	33.50
331A05032	50 X 32	162.08	51.75	63.75	60.75	78.25	41.50	53.00	34.00	33.50
331A05040	50 X 40	162.70	60.75	78.25	60.75	78.25	41.50	53.00	41.50	42.00
331A06332	63 X 32	169.00	51.75	63.75	82.75	109.00	64.50	64.50	34.00	33.00
331A06350	63 X 50	193.33	60.75	78.25	82.75	109.00	64.50	64.50	41.50	52.00
331A07563	75 X 63	231.95	82.75	109.00	107.50	132.50	76.00	77.25	64.50	65.50
331A09063	90 X 63	253.08	82.75	109.00	131.25	151.50	94.00	93.25	64.50	65.25
331A09075	90 X 75	264.78	107.50	132.50	131.25	151.50	94.00	93.75	76.00	78.00
331A11075	110 X 75	347.75	107.50	132.50	166.50	175.50	112.50	113.00	76.00	77.50
331A11090	110 X 90	352.88	131.25	151.50	166.50	175.50	112.50	113.50	94.00	92.50

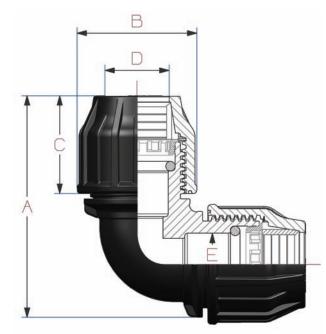






90° ELBOW No. 332

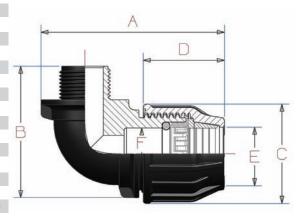
CODE	SIZE (mm x mm)	NOMINAL DIMENSIONS (mm)								
		A	В	С	D	Е				
332016016	16 x 16	75.13	39.25	35.00	17.50	17.50				
332020020	20 x 20	87.85	46.00	39.50	22.20	22.00				
332025025	25 x 25	97.88	52.50	41.25	26.75	26.50				
332032032	32 x 32	118.25	63.75	51.75	34.00	33.50				
332040040	40 x 40	140.43	78.25	60.75	41.50	41.50				
332050050	50 x 50	158.18	92.50	68.50	51.50	51.50				
332063063	63 x 63	197.00	109.00	82.75	64.50	64.50				
332075075	75 x 75	215.45	132.50	107.50	76.00	77.25				
332090090	90 x 90	267.83	151.50	131.25	94.00	91.50				
332110110	110 x 110	369.05	175.50	166.50	112.50	112.50				



#### MALE ELBOW No. 332A

CODE	SIZE		N	0		IS	
	(mm x in)		_	`	nm)	_	_
		A	В	С	D	E	F
332A01601	16 x ½	74.63	55.75	39.25	35.00	17.50	17.50
332A01602	16 x ¾	74.73	57.00	39.25	35.00	17.50	17.50
332A02001	20 x ½	85.10	61.25	46.00	39.50	22.20	22.00
332A02002	20 x ¾	88.60	32.75	46.00	39.50	22.20	22.00
332A02501	25 x ½	89.63	68.75	52.50	41.25	26.75	26.50
332A02502	25 x ¾	90.88	69.25	52.50	41.25	26.75	26.50
332A02503	25 x 1	92.93	78.25	52.50	41.25	26.75	26.50
332A03202	32 x ¾	120.75	84.50	63.75	51.75	34.00	13.50
332A03203	32 x 1	112.25	83.75	63.75	51.75	34.00	33.50
332A04004	40 x 1¼	136.38	92.00	78.25	60.75	41.50	41.50
332A04005	40 x 1½	137.13	92.25	78.25	60.75	41.50	41.50
332A05005	50 x 1½	152.83	110.75	78.25	60.75	41.50	52.50
332A05006	50 x 2	153.33	115.00	78.25	60.75	41.50	52.50
332A06306	63 x 2	191.25	133.00	109.00	82.75	64.50	65.00
332A06307	63 x 2½	191.00	133.75	109.00	82.75	64.50	65.00
332A07507	75 x 2½	219.20	172.25	132.50	107.50	76.00	78.25
332A07508	75 x 3	218.20	171.75	132.50	107.50	76.00	77.75
332A09008	90 x 3	265.08	171.50	151.50	131.25	94.00	92.25
332A11009	110 x 4	335.80	221.00	175.50	166.50	112.50	113.50







FEMALE ELBOW No. 332B

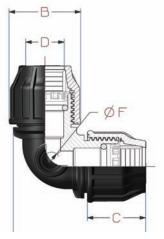


CODE	SIZE (mm x in)		NOMIN	IAL DIMEN (mm)	SIONS		A
		A	В	С	D	E	
332B02001	20 X ½	91.35	68.25	39.50	22.20	22.00	
332B02002	20 X ¾	91.35	67.50	39.50	22.20	22.00	
332B02501	25 X ½	104.13	73.75	41.25	26.75	26.50	
332B02502	25 X ¾	103.88	74.25	41.25	26.75	26.50	4 \$
332B02503	25 X 1	92.38	74.75	41.25	26.75	26.50	
332B03202	32 X ¾	121.25	80.00	51.75	34.00	33.50	
332B03203	32 X 1	121.00	74.50	51.75	34.00	33.50	E CONTRACTOR
332B04004	40 X 1¼	136.63	97.70	60.75	41.50	41.50	Lananana
332B04005	40 X 1½	137.28	96.95	60.75	41.50	41.50	
332B05005	50 X 1½	153.98	111.50	68.50	51.50	51.50	
332B05006	50 X 2	156.38	112.60	68.50	51.50	51.50	
332B06306	63 X 2	190.65	134.25	82.75	64.50	64.50	
332B06307	63 X 2½	190.60	137.50	82.75	64.50	64.50	
332B07507	75 X 2½	217.20	173.00	107.50	76.00	77.25	
332B07508	75 X 3	219.70	175.00	107.50	76.00	77.25	
332B09008	90 X 3	264.83	170.50	131.25	94.00	91.50	



#### 90° FEMALE ELBOW FOR POP-UP No. 332

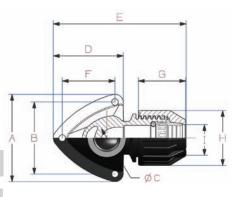
CODE	SIZE (mm x in x mm)		NOMINAL DIMENSIONS (mm)								
		A	В	С	D	E	F				
332025025	25 x ½"x 25	97.88	52.50	41.25	26.75	26.50	1⁄2"				
332032032	32 x ½"x 32	118.25	63.75	51.75	34.00	33.50	1⁄2"				
332032032	32 x ¾"x32	118.25	63.75	51.75	34.00	33.50	3⁄4"				





WALL FEMALE ELBOW No. 332D

CODE	SIZE (mm x in)		NOMINAL DIMENSIONS (mm)										
		A	В	С	D	E	F	G	Н	I			
332D02001	20 x ½	72.75	60.00	18.00	58.47	110.52	34.97	39.50	45.97	22.25			
332D02502	25 x ¾	85.70	73.45	24.00	69.15	126.70	54.40	41.15	52.42	27.00			

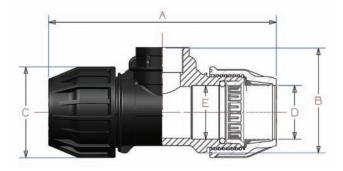




#### FEMALE TEE No. 333

CODE	SIZE (mm x in x mm)		NOMIN	IAL DIMEN (mm)	ISIONS	
		А	В	С	D	Е
333016001	16 x ½ x 16	110.25	47.00	39.25	17.50	17.00
333001602	16 x ¾ x 16	112.00	47.00	39.25	17.50	17.00
333002001	20 x ½ x 20	132.20	54.50	46.00	22.20	21.50
333002002	20 x ¾ x 20	132.20	54.25	46.00	22.20	21.50
333002501	25 x ½ x 25	139.25	57.75	52.50	26.75	25.75
333002502	25 x ¾ x 25	139.25	57.75	52.50	26.75	25.75
333002503	25 x 1 x 25	141.75	60.75	52.50	26.75	26.25
333003202	32 x ¾ x 32	169.50	66.75	63.75	34.00	33.50
333003203	32 x 1 x 32	169.50	66.75	63.75	34.00	33.50
332004004	40 x 1¼ x 40	209.25	98.50	78.25	41.50	42.25
332004005	40 x 1½ x 40	209.25	100.25	78.25	41.50	42.75
332005005	50 x 1½ x 50	234.65	113.25	92.50	51.50	52.50
332005006	50 x 2 x 50	234.65	113.25	92.50	51.50	52.75
332006306	63 x 2 x 63	281.50	122.00	109.00	64.50	66.50
332006307	63 x 2½ x 63	281.50	142.00	109.00	64.50	65.25
333007506	75 x 2 x 75	321.40	172.00	132.50	76.00	77.75
333007507	75 x 2½ x 75	321.40	173.75	132.50	76.00	77.75
333007508	75 x 3 x 75	321.40	174.75	132.50	76.00	77.75
333009008	90 x 3 x 90	402.15	200.50	151.50	94.00	92.50

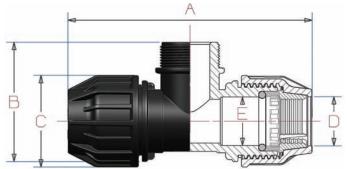




#### MALE TEE No. 333A

CODE	SIZE		NOMIN		SIONS	
	(mm x in x mm)			(mm)		
		A	В	С	D	E
333A16001	16 x ½ x 16	100.63	55.50	39.25	17.50	17.50
333A01602	16 x ¾ x 16	100.63	57.75	39.25	17.50	17.50
333A02001	20 x ½ x 20	117.10	63.75	46.00	22.20	22.00
333A02002	20 x ¾ x 20	117.10	65.75	46.00	22.20	22.00
333A02003	20 x 1 x 20	117.10	67.75	46.00	22.20	22.00
333A02501	25 x ½ x 25	130.38	72.25	52.50	26.75	26.50
333A02502	25 x ¾ x 25	130.38	72.50	52.50	26.75	26.50
333A02503	25 x 1 x 25	130.38	74.00	52.50	26.75	26.50
333A03201	32 x ½ x 32	152.50	78.50	63.75	34.00	33.50
333A03202	32 x ¾ x 32	152.50	79.00	63.75	34.00	33.50
333A03203	32 x 1 x 32	152.50	83.00	63.75	34.00	33.50
332B04003	40 x 1 x 40	178.13	96.00	78.25	41.50	42.00
332B04004	40 x 1¼ x 40	178.13	101.00	78.25	41.50	42.00
332B04005	40 x 1½ x 40	179.13	110.75	78.25	41.50	42.00
332B05005	50 x 1½ x 50	198.58	110.75	78.25	41.50	52.75
332B05006	50 x 2 x 50	198.58	115.00	78.25	41.50	52.75
332B06306	63 x 2 x 63	248.50	138.25	109.00	64.50	65.00
333A07506	75 x 2 x 75	275.70	170.00	132.50	76.00	77.50
333A07507	75 x 2½ x 75	275.70	171.00	132.50	76.00	77.50
333A07508	75 x 3 x 75	275.70	171.00	132.50	76.00	77.50
333A09008	90 x 3 x 90	344.33	196.50	151.50	94.00	92.50







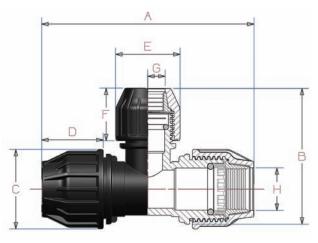


#### 90° TEE No. 334

CODE	SIZE (mm x mm x mm)		Ν		IMENSION	IS	
		А	В	С	D	E	F
334016016	16 x 16 x 16	115.25	74.63	35.00	39.25	17.50	17.50
334020020	20 x 20 x 20	135.20	87.85	39.50	46.00	22.00	22.20
334025025	25 x 25 x 25	148.25	97.38	41.25	52.50	26.50	26.75
334032032	32 x 32 x 32	178.75	118.00	51.75	63.75	33.50	34.00
334040040	40 x 40 x 40	209.25	203.13	60.75	78.25	41.50	41.50
334050050	50 x 50 x 50	239.40	160.33	68.50	92.50	51.50	51.50
334063063	63 x 63 x 63	296.00	197.25	82.75	109.00	64.50	64.50
334075075	75 x 75 x 75	319.90	216.70	107.50	132.50	77.25	76.00
334090090	90 x 90 x 90	401.65	265.83	131.25	151.50	91.50	94.00
334110110	110 x 110 x 110	564.60	364.55	166.50	175.50	112.50	112.50

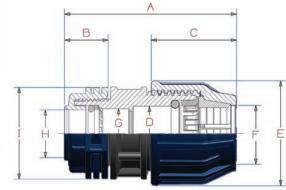


(mm x mm x mm)         A         B         C         D         E         F         G         H           334A02016         20 x 16 x 20         135.20         81.88         46.00         39.50         39.25         35.00         17.50         22.20           334A02016         20 x 16 x 20         135.20         81.88         46.00         39.50         39.25         35.00         17.50         22.20           334A02020         25 x 20 x 25         148.75         98.10         52.50         41.25         46.00         39.50         22.20         26.75           334A03225         32 x 25 x 32         178.00         104.38         63.75         51.75         52.50         41.25         26.75         34.00           334A0322         40 x 32 x 40         208.25         135.75         78.25         60.75         61.75         51.75         34.00         41.50           334A0540         50 x 40 x 50         238.65         150.13         78.25         60.75         78.25         60.75         41.50         41.50           334A06350         63 x 50 x 63         295.50         182.08         109.00         82.75         78.25         60.75         41.50         41.50												
334A02016         20 x 16 x 20         135.20         81.88         46.00         39.50         39.25         35.00         17.50         22.20           334A25020         25 x 20 x 25         148.75         98.10         52.50         41.25         46.00         39.50         22.20         26.75           334A03225         32 x 25 x 32         178.00         104.38         63.75         51.75         52.50         41.25         26.75         34.00           334A04032         40 x 32 x 40         208.25         135.75         78.25         60.75         63.75         51.75         34.00         41.50           334A05040         50 x 40 x 50         238.65         150.13         78.25         60.75         78.25         60.75         41.50         41.50           334A06350         63 x 50 x 63         295.50         182.08         109.00         82.75         78.25         60.75         41.50         41.50           334A06350         63 x 50 x 63         295.50         182.08         109.00         82.75         78.25         60.75         41.50         64.50           334A07563         75 x 63 x 75         318.40         207.55         132.50         107.50         109.00         82.75	CODE											
334A25020       25 x 20 x 25       148.75       98.10       52.50       41.25       46.00       39.50       22.20       26.75         334A03225       32 x 25 x 32       178.00       104.38       63.75       51.75       52.50       41.25       26.75       34.00         334A0322       40 x 32 x 40       208.25       135.75       78.25       60.75       63.75       51.75       34.00       41.50         334A0324       50 x 40 x 50       238.65       150.13       78.25       60.75       78.25       60.75       41.50       41.50         334A06350       63 x 50 x 63       295.50       182.08       109.00       82.75       78.25       60.75       41.50       41.50         334A07563       75 x 63 x 75       318.40       207.55       132.50       107.50       109.00       82.75       64.50         334A09075       90 x 75 x 90       401.65       246.20       151.50       131.25       132.50       107.50       76.00       94.00			Α	В	С	D	E	F	G	Н		
3334A03225         32 x 25 x 32         178.00         104.38         63.75         51.75         52.50         41.25         26.75         34.00           3334A03225         40 x 32 x 40         208.25         135.75         78.25         60.75         63.75         51.75         34.00         41.50           334A0324         40 x 32 x 40         208.25         135.75         78.25         60.75         63.75         51.75         34.00         41.50           334A06350         50 x 40 x 50         238.65         150.13         78.25         60.75         78.25         60.75         41.50         41.50           334A06350         63 x 50 x 63         295.50         182.08         109.00         82.75         78.25         60.75         41.50         64.50           334A07563         75 x 63 x 75         318.40         207.55         132.50         107.50         109.00         82.75         64.50           334A09075         90 x 75 x 90         401.65         246.20         151.50         131.25         107.50         76.00         94.00	334A02016	20 x 16 x 20	135.20	81.88	46.00	39.50	39.25	35.00	17.50	22.20		
334A04032         40 x 32 x 40         208.25         135.75         78.25         60.75         63.75         51.75         34.00         41.50           334A04032         50 x 40 x 50         238.65         150.13         78.25         60.75         78.25         60.75         41.50         41.50           334A06350         63 x 50 x 63         295.50         182.08         109.00         82.75         78.25         60.75         41.50         41.50           334A07563         75 x 63 x 75         318.40         207.55         132.50         107.50         109.00         82.75         64.50           334A09075         90 x 75 x 90         401.65         246.20         151.50         131.25         107.50         76.00         94.00	334A25020	25 x 20 x 25	148.75	98.10	52.50	41.25	46.00	39.50	22.20	26.75		
3334A05040         50 x 40 x 50         238.65         150.13         78.25         60.75         78.25         60.75         41.50         41.50           334A05350         63 x 50 x 63         295.50         182.08         109.00         82.75         78.25         60.75         41.50         64.50           334A07563         75 x 63 x 75         318.40         207.55         132.50         107.50         109.00         82.75         64.50           334A0975         90 x 75 x 90         401.65         246.20         151.50         131.25         107.50         76.00         94.00	334A03225	32 x 25 x 32	178.00	104.38	63.75	51.75	52.50	41.25	26.75	34.00		
334A06350         63 x 50 x 63         295.50         182.08         109.00         82.75         78.25         60.75         41.50         64.50           334A07563         75 x 63 x 75         318.40         207.55         132.50         107.50         109.00         82.75         64.50         76.00           334A09075         90 x 75 x 90         401.65         246.20         151.50         131.25         132.50         107.50         76.00         94.00	334A04032	40 x 32 x 40	208.25	135.75	78.25	60.75	63.75	51.75	34.00	41.50		
3334A07563         75 x 63 x 75         318.40         207.55         132.50         107.50         109.00         82.75         64.50         76.00           334A09075         90 x 75 x 90         401.65         246.20         151.50         131.25         132.50         107.50         94.00	334A05040	50 x 40 x 50	238.65	150.13	78.25	60.75	78.25	60.75	41.50	41.50		
334A09075 90 x 75 x 90 401.65 246.20 151.50 131.25 132.50 107.50 76.00 94.00	334A06350	63 x 50 x 63	295.50	182.08	109.00	82.75	78.25	60.75	41.50	64.50		
	334A07563	75 x 63 x 75	318.40	207.55	132.50	107.50	109.00	82.75	64.50	76.00		
334A11090 110 x 90 x 110 561.85 301.83 175.50 166.50 151.50 131.25 94.00 112.50	334A09075	90 x 75 x 90	401.65	246.20	151.50	131.25	132.50	107.50	76.00	94.00		
	334A11090	110 x 90 x 110	561.85	301.83	175.50	166.50	151.50	131.25	94.00	112.50		









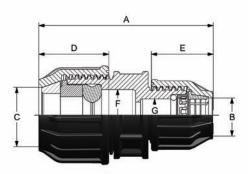
#### UNIVERSAL FITTING No. 321C

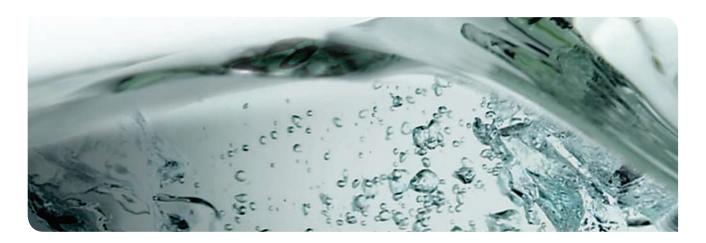
CODE	SIZE (mm x mm)		NOMINAL DIMENSIONS (mm)									
		А	В	С	D	E	F	G	Н	I		
321C02015	20 X 15	86.80	26.15	39.50	22.00	46.00	22.20	16.00	15.25	38.00		
321C02515	25 X 15	89.30	26.15	41.25	26.50	52.50	26.75	16.00	15.25	38.00		
321C02522	25 X 22	85.00	25.60	41.25	26.50	52.50	26.75	22.50	22.50	50.80		
321C03222	32 X 22	100.4	25.60	51.75	33.50	63.75	34.00	22.50	22.50	50.80		
321C03228	32 X 28	101.50	26.70	51.75	33.50	63.75	34.00	30.00	28.50	60.00		



# GLOBAL TRANSITION COUPLING No. 321D

CODE	SIZE (mm/mm x mm)	NOMINAL DIMENSIONS (mm)								
		A	В	С	D	E	F	G		
321D02220	15/22 X 20	120.00	21.50	23.00	51.50	39.50	15/22	22.20		
321D02225	15/22 X 25	125.10	26.50	23.00	51.50	41.25	15/22	26.75		
321D02725	20/27 X 25	123.25	26.50	27.85	54.20	41.25	20/27	26.75		
321D02732	20/27 X 32	134.00	33.50	27.85	54.20	51.75	20/27	34.00		
321D03425	27/34 X 25	127.25	26.50	35.15	58.20	41.25	27/34	26.75		
321D03432	27/34 X 32	137.90	33.50	35.15	58.20	51.75	27/34	34.00		

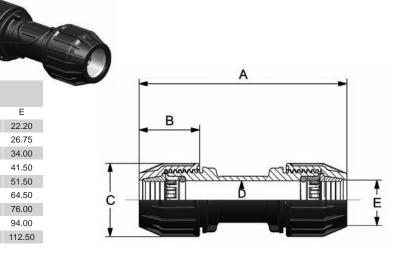






#### REPAIR COUPLING No. 311B

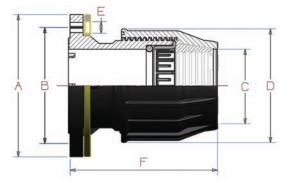
CODE	SIZE (mm x mm)	NOMINAL DIMENSIONS (mm)				
		А	В	С	D	Е
331B00020	20 x 20	89.00	39.50	46.00	22.00	22.20
331B00025	25 x 25	118.50	41.25	52.50	26.50	26.75
331B00032	32 x 32	178.75	51.75	63.75	33.50	34.00
331B00040	40 x 40	209.25	60.75	78.25	41.50	41.50
331B00050	50 x 50	239.40	68.50	92.50	51.50	51.50
331B00063	63 x 63	296.00	82.75	109.00	64.50	64.50
331B00075	75 x 75	250.90	107.50	132.50	77.25	76.00
331B00090	90 x 90	293.40	131.25	151.50	91.50	94.00
331B00110	110 x 110	382.60	166.50	175.50	112.50	112.50





#### FLANGE ADAPTOR No. 330C

CODE	SIZE (mm x in)	NOMINAL DIMENSIONS (mm)						
		A	В	С	D	E	F	n
330C 050 05	50 X 1½	150	110	51.50	92.50	18	136	4
330C 050 06	50 X 2	165	125	51.50	92.50	18	136	4
330C 063 06	63 X 2	165	125	64.50	109.00	18	153	4
330C 075 07	75 X 2½	185	145	76.00	132.50	18	168	4
330C 075 08	75 X 3	200	160	76.00	132.50	18	168	8
330C 090 08	90 X 3	200	160	94.00	151.50	18	200	8
330C 090 09	90 X 4	220	180	94.00	151.50	18	200	8
330C 110 09	110 X 4	220	180	112.50	175.50	18	231	8







# WARRANTY CERTIFICATE

**DECLARATION**: All our products are warranted for a period of TWO (2) YEARS from the delivery date. Our warranty includes repair or replacement of defective parts in our production plant or in the after-sale service location. Replacement or repair of parts under this warranty will not extend the warranty period of the original product, through such parts carry their own warranty.

For this warranty to be effective, the buyer must certify the date of acquisition and reception of the product.

For this warranty to be effective, the buyer must be strictly following the manufacturer's indications, when relevant to the product line and model purchased. No warranties are given in regard to normal wear and tear due to use of the products. Regarding fungible or consumable pieces, components and/or materials, the provision contained in the accompanying documentation shall apply.

This warranty does not cover those cases in which the product:

- Has been incorrectly handled
- Has been repaired, maintained, or modified by an unauthorized person
- Has been repaired or maintained with other than original pieces
- Has been installed or placed in operation incorrectly

Excepting mandatory regulations to the contrary, the expenses for return and shipment of defective materials shall be paid by the buyer. The present warranty is no way limits or prejudices consumers' rights under national mandatory regulations.

Quality Control Manager Elysee Irrigatiion Ltd

# **CERTIFICAT DE CONFORMITATE**



# MOLDAC REPUBLICA MOLDOVA

Nr. de înregistrare OC ICC 11 A0003904-17

Data emiterii 16 ji

16 iunie 2017

Valabil pînă 16 iunie 2022

### ORGANISMUL DE CERTIFICARE OCpr. - 003

**ORGANISMUL DE CERTIFICARE produse din cadrul SC "Inspecție-Certificare-Calitate" S.R.L.** MD 2032, mun. Chișinău, str. Sarmizegetusa, 92, tel./fax 022 50-70-75, <u>www.certificare.md</u> Certificat de acreditare nr. OCpr - 003 valabil pînă la 28.11.2018.

PRIN PREZENTUL DOCUMENT SE CONFIRMĂ FAPTUL, CĂ PRODUSELE IDENTIFICATE ASTFEL: DENUMIREA / DES CRIEREA

Țevi și fitinguri din PVC-U, marca comercială "Basiclinie" pentru canalizare exterioară și drenaj SN2-SN16, diametre D110-630. Fabricare în serie conform SR EN 13476-2 și SR EN1401-1.

Codul NCM 3917

### SÎNT CONFORME CU CERINȚELE OBLIGATORII STABILITE ÎN :

Reglementarea tehnică cu privire la produsele pentru construcții (anexa la HG nr. 226 din 29.02.2008), cap. V (p. 9.3 g), cap. IX, SM SR EN 13476-2 și SM SR EN 1401-1

#### PRODUCĂTOR

S.C. VALPLAST INDUSTRIE S.R.L., bd. Preciziei, nr.9, sector 6, București, România

#### SOLICITANT

S.C. VALPLAST INDUSTRIE S.R.L., bd. Preciziei, nr.9, sector 6, București, România

Codul IDNO RO14368402

RO

Codul țării

#### CERTIFICATUL ESTE ELIBERAT ÎN BAZA

Raportului de încercări Nr.00403 din 28.10.2015, eliberat de LÎ INSIST, bd. Pache Protopopescu, 66, sector 2, București, certificat de acreditare nr. LÎ 205/2011, Agrementelor tehnice nr. 017-05/2396-2015 din 31.05.2015, nr. 017-05/2521-2015 din 31.12.2015, nr.017-05/2511-2015 din 31.12.2015, elaborate de Institutul European pentru științe termice - EITS, București, Certificatului pentru sistem de management SR ISO 9001:2008, nr.10599 din 09.02.2016, Certificatului pentru sistem de mediu ISO 14001:2005, nr.4869 din 09.02.2016, eliberate de "SRAC CERT" srl, Raportului de audit conform contractului SRAC din 17.01.2017, la certificatele: SR EN ISO 9001:2008; SR EN ISO 14001:2005, Raportului de identificare a produselor nr. M-7045-17 din 05.06.2017, Raportului de producție nr.M-7045-17 din 07.06.2017, Raportului sumar de evaluare a conformității produselor nr.M-7045-17 din 16.06.2017, eliberate de OC "ICC".

#### INFORMAȚIE SUPLIMENTARĂ:

Sistemul certificării produselor nr. 2+. Evaluarea periodică se va efectua o dată pe an de OC "ICC" conform contractului de evaluare periodică a produselor certificate Nr. 17.22. 7045-EPPC din 16.06.2017. Contract de testare produselor aferente agrementelor tehnice nr. 1205 din 07.02.2012, act adițional nr. 06 din 03.01.2017 cu LÎ INSIST din cadrul EITS, București. Certificatul este valabil doar în cazul asigurării fiecărei unități de produs certificat cu informația amplă în limba de stat în conformitate cu legislația în vigoare

Titularul prezentului certificat este obligat să aplice marca de conformitate SM pe produsele specificate în prezentul certificat



CONDUCĂTORUL ORGANIS MULUI DE CERTIFICARE

Savoi V.

În atenția antreprenorilor și organelor de control ! Copiile certificatelor se legalizează prin specimenul de ștampilă și semnătura deținătorului certificatului

CTSIC CENTRUL TEHNIC PENTRU SECURITATE INDUSTRIALĂ ȘI CERTIFICARE SRL	MOLDAC REPUBLICA MOLDOVA				
CERTIFICAT DE CONFORMIT	ATE EM SR EN ISO/IEC 17065:2013				
Nr. de înregistrare OCPGSP MD 015 13C 486	67-21				
Data emiterii 01 octombrie 2021 Valabil pînă	01 octombrie 2022				
<b>ORGANISMUL DE CERTIFICARE</b> A PRODUSELOR CU GRAD SPORIT DE PERICOL din cadrul SRL "Centrul Tehnic pentru Securitate Industrială și Certificare", certificat de acreditare OCpr-015, MD-2001, mun. Chișinău, str. Melestiu, 22/A, tel.: 022208156, 022208186					
PRIN PREZENTUL DO CUMENT SE CONFIRMĂ FAPTUL, CĂ PRO DUSELE IDENTIFICATE ASTFEL:					
DENUMIREA / DESCRIEREA	Codul NC				
Fitinguri din polietilenă PE100,	3917				
tipurile, dimensiunile - conform anexei (5 poziții), livrarea conform contractului nr.1/06.11.18 din 11.01.2019,					
păstrarea: depozitul firmei (RM, r-nul Criuleni, s.Măgdăcești, str.Orhei 100 (km.17))					
pastarea. aepozici miner (1041, 1-nai erialeni, s.iviaguaeeşii, su.onier 100 (kin.17))					
SUNT CONFORME CU CERINȚELE OBLIGATORII STABILITE ÎN SM GOST R 52134:2005, p.5.1.16, p.5.1.19					
PRODUCĂTOR	Codul țării				
TEGA Grup Ithalat Ihracat A.Ş.					
Ankara/Sincan, 1, OSB Ural Cad.nr.9, Turcia					
CLIENT	Codul IDNO				
HYDROSYSTEMS ML SRL	1006600048410				
RM, r-nul Criuleni, s. Măgdăcești, str. Orhei 100 (km. 17)					
CERTIFICATUL ESTE ELIBERAT ÎN BAZA					
Raportului de identificare a produselor nr. 6/0703 din 20.09.2021. Raportului de încercări nr. 421-21C din 23.09.2021,					
eliberat de LÎ 'LabTest-Airin' SRL, certificat de acreditare nr.LÎ-016					
Raportului de evaluare nr.6/119-ev din 01.10.2021.					
INFORMAȚIE SUPLIMENTARĂ					
Certificatul este eliberat conform schemei de tip 2.					
Este stabilită o supraveghere cu identificarea de către OC PGSP a fiecărui lot de produse importate.					
Pertificatul este valabil numai în prezența anexei la certificatul dat.					
SC CURASPUS					
8500 Much					
E Genducatorul organismului de certificare	Angela Postolache				
	bilit de				

#### CENTRUL TEHNIC PENTRU SECURITATE INDUSTRIALĂ ȘI CERTIFICARE SRL

Fila 1 File 1

### Anexă

la certificatul de conformitate

Nr. OC P<sub>GSP</sub> MD 015 13C 48667-21 din 01.10.2021

Lista produselor concrete asupra cărora se extinde acțiunea certificatului de conformitate

Nr	Tipuri	Dimensiuni, Ø, mm
1	Adaptor pentru flansa SP SDR 11/17	25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315
	Reductie SP SDR 11/17	32x20, 32x25, 40x20, 40x25, 40x32, 50x20, 50x25, 50x32, 50x40, 63x20, 63x25, 63x32, 63x40, 63x50, 75x63, 90x63, 90x75, 110x63, 110x75, 110x90, 125x63, 125x75, 125x90, 125x110, 140x90, 140x110, 140x125, 160x90, 160x110, 160x125, 160x140, 180x90, 180x110, 180x125, 180x140, 180x160, 200x110, 200x125, 200x140, 200x160, 200x180, 225x110, 225x125, 225x140, 225x160, 225x180, 225x200, 250x110, 250x125, 250x140, 250x160, 250x180, 250x200, 250x225, 280x125, 280x140, 280x160, 280x180, 280x200, 280x225, 280x250, 315x180, 315x200, 315x225, 315x250, 315x280
	Manson ES SDR 11	20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315
	Manson redus ES SDR 11	25x20, 32x20, 32x25, 40x32, 50x32, 50x40, 63x25, 63x32, 63x40, 63x50, 75x63, 90x63, 90x75, 110x63, 110x90, 125x110, 160x110, 200x110, 200x160, 225x200, 250x200, 250x225, 280x200, 280x225, 280x250, 315x225, 315x250, 315x280
2	Teu SP SDR 11/17	25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315
	Teu redus SP SDR 11/17	110x63, 110x90, 125x90, 125x110, 140x90, 140x110, 140x125, 160x90, 160x11 160x125, 160x140, 180x90, 180x110, 180x125, 180x140, 180x160, 200x90, 200x110, 200x125, 200x140, 200 x160, 200x180, 225x90, 225x110, 225x125, 225x140, 225x160, 225x180, 250x90, 250x110, 250x125, 250x140, 250x160, 250x180, 250x200, 250x225, 280x63, 280x90, 280x110, 280x125, 280x140, 280x160, 280x180, 280x200, 280x225, 315x90, 315x110, 315x125, 315x140, 315x160, 315x180, 315x200, 315x225, 315x250, 315x280
	Teu ES SDR 11	25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315
	Teu redus ES SDR 11	160x90, 160x110, 200x110, 200x140, 200x160
2	Piesa bransare ES SDR 11	50x20, 50x25, 50x32, 50x40, 63x20, 63x25, 63x32, 63x40, 63*x50, 63x63, 75x2 75x25, 75x32, 75x40, 75x50, 75x63, 90x20, 90x25, 90x32, 90x40, 90x50, 90x63, 110x20, 110x25, 110x32, 110x40, 110x50, 110x63, 125x20, 125x25, 125x32, 125x40, 125x50, 125x63, 140x20, 140x25, 140x32, 140x40, 140x50, 140x63, 160x20, 160x25, 160x32, 160x40, 160x50, 160x63, 180x20, 180x25, 180x32, 180x40, 180x50, 180x63, 200x20, 200x25, 200x32, 200x40, 200x50, 200x63, 225x20, 225x25, 225x32, 225x40, 225x50, 225x63, 250x20, 250x25, 250x32, 250x40, 250x50, 250x63, 280x20, 280x25, 280x32, 280x40, 280x50, 280x63, 315x20, 315x25, 315x32, 315x40, 315x50, 315x63
31	Cot SP SDR 11/17	25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315
00	Cot ES SDR 11	25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 515
N	Cruce SP SDR 11/17	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315
002	Capac SP SDR 11/17	25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315
	Children Cho	

Conducătorul organismului de certificare

Mus

Angela Postolache

Anava nu acto valabilă în linea cortificatului de conformitate