



KOMO®
Product certificate
K4193/22



Issued	2019-07-01	Replaces	K4193/21
Valid until	Indefinite	Dated	2018-12-01
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CERTIFICATE

Vulcanized rubber products for cold and hot non-drinking water applications
Trelleborg Pipe Seals Lelystad BV

STATEMENT BY KIWA

This product certificate is issued on the basis of BRL 2013 "Vulcanized rubber products for cold and hot non-drinking water applications" dated 12 October 2016 including the alteration sheet dated 10 October 2018, conform the Kiwa-Regulations for Certification.

The quality system and product characteristics in association with vulcanized rubber products for cold and hot-drinking water applications are assessed periodically.

On this basis Kiwa declares that a justified confidence exists, that the vulcanized rubber products for cold and hot-drinking water applications delivered by the certificate holder at delivery fulfil:

- the technical specification laid down in this product certificate,
 - the product requirements as laid down in this product certificate and in the BRL.
- provided that vulcanized rubber products for cold and hot-drinking water applications have been marked with the KOMO®-mark in a manner as indicated in this product certificate;

Ronald Karel
 Kiwa

*The certificate is listed in the overview on the website of Stichting KOMO: www.komo.nl.
 Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.*

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Evaluated is:
 quality system
 product
 Periodic inspection

Vulcanized rubber products for cold and hot non-drinking water applications

TECHNICAL SPECIFICATION

Vulcanized rubber products for cold and hot non-drinking water applications

Product characteristics

The products as specified in the table below fulfil the requirements of BRL-2013 for the mentioned class(es).

Rubber Compound: EPDM 796/7964					
Hardness:	40 IRHD	Field of application ² :	I – WC	Remarks:	
Ozone Class ¹ :	I	Production method:	Injection (796) Extrusion (7964)		
	Seal type Nominal Dimensions Cross section	Model 050 300-1500 mm 13-26 mm		Seal type Nominal Dimensions Cross section	Model 101 100-3000 mm 8.5-28 mm
	Seal type Nominal Dimensions Cross section	Model 104 300-3000 mm 16-38 mm		Seal type Nominal Dimensions Cross section	Model 114 300-3000 mm 15-30 mm
	Seal type Nominal Dimensions Cross section	Model 116 300-3000 mm 16-30 mm		Seal type Nominal Dimensions Cross section	Model 117 300-3000 mm 7-34 mm
	Seal type Nominal Dimensions Cross section	Model 118 500-4000 mm 20 and 21.5 mm		Seal type Nominal Dimensions Cross section	Model 134 125 and 160 mm 8 mm
	Seal type Nominal Dimensions Cross section	Model 140 300-3000 mm 13-32 mm		Seal type Nominal Dimensions Cross section	Model 145 50-400 mm 10-26 mm
	Seal type Nominal Dimensions Cross section	Model 146 300-3000 mm 13.5-36 mm		Seal type Nominal Dimensions Cross section	Model 153 300-3000 mm 12-18 mm
	Seal type Nominal Dimensions Cross section	Model 159 300-3000 mm 28 mm		Seal type Nominal Dimensions Cross section	Model 159s 1400-3200 mm 16-28 mm
	Seal type Nominal Dimensions Cross section	Model 177 300-900 mm 13-22 mm		Seal type Nominal Dimensions Cross section	Model 520 500 and 630 mm 37.7-49.5 mm
	Seal type Nominal Dimensions Cross section	Model 928 125 and 160mm 9 mm		Seal type Nominal Dimensions Cross section	Model 910 50-2000 mm 20-32 mm
	Seal type Nominal Dimensions Cross section	Model 999 600-1600 mm 13.4-25 mm		Seal type Nominal Dimensions Cross section	Model 124 400-3000mm 14.5-21.5 mm



Vulcanized rubber products for cold and hot non-drinking water applications

Rubber Compound: NBR 570I/570U					
Hardness:	40 IRHD	Field of application ² :	I – WG	Remarks:	
Ozone Class ¹ :	II	Production method:	Injection (570I) Extrusion (570U)		
	Seal type	Model 104		Seal type	Model 114
	Nominal Dimensions	300-3000 mm		Nominal Dimensions	300-3000 mm
	Cross section	16-38 mm		Cross section	15-30 mm
	Seal type	Model 116		Seal type	Model 117
	Nominal Dimensions	300-3000 mm		Nominal Dimensions	300-3000 mm
	Cross section	16-30 mm		Cross section	7-34 mm
	Seal type	Model 910			
	Nominal Dimensions	50 – 200 mm mold 50 – 400 mm extr			
	Cross section	20 mm			
Rubber Compound: SBR 293 & SBR 2939E					
Hardness:	40 IRHD	Field of application ² :	I – WC	Remarks:	
Ozone Class ¹ :	II	Production method:	Injection (293) Extrusion (2939E)		
	Seal type	Model 101 G-ring		Seal type	Model 103 Glipp
	Nominal Dimensions	100-3000 mm		Nominal Dimensions	150-2000 mm
	Cross section	8.5-28 mm		Cross section	10-26 mm
	Seal type	Model 104		Seal type	Model 114
	Nominal Dimensions	300-3000 mm		Nominal Dimensions	300-3000 mm
	Cross section	16-38 mm		Cross section	15-30 mm
	Seal type	Model 116		Seal type	Model 117
	Nominal Dimensions	300-3000 mm		Nominal Dimensions	300-3000 mm
	Cross section	16-30 mm		Cross section	7-34 mm
	Seal type	Model 124		Seal type	Model 520
	Nominal Dimensions	400-3000 mm		Nominal Dimensions	500 and 630 mm
	Cross section	14.5-21.5 mm		Cross section	37.7-49.5 mm
	Seal type	Model 910		Seal type	Model 928
	Nominal Dimensions	50 – 200 mm mold 50 – 400 mm extr		Nominal Dimensions	125 and 160 mm
	Cross section	20 mm		Cross section	9 mm
	Seal type	Model 134		Seal type	Model 050
	Nominal Dimensions	160 mm		Nominal Dimensions	300-1500 mm
	Cross section	8 mm		Cross section	13-26 mm
	Seal type	Model 118		Seal type	Model 140
	Nominal Dimensions	500-4000 mm		Nominal Dimensions	300-3000 mm
	Cross section	20 and 21.5 mm		Cross section	13-32 mm



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	Seal type	Model 145		Seal type	Model 146
	Nominal Dimensions	50-400 mm		Nominal Dimensions	300-3000 mm
	Cross section	10-26 mm		Cross section	13.5-36 mm
	Seal type	Model 159		Seal type	Model 159s
	Nominal Dimensions	300-3000 mm		Nominal Dimensions	1400-3200 mm
	Cross section	28 mm		Cross section	16-28 mm
	Seal type	Model 910			
	Nominal Dimensions	50 – 200 mm mold 50 – 400 mm extr			
	Cross section	20 mm			
Rubber Compound: SBR 2979					
Hardness:	50 IRHD	Field of application ² :	I – WC	Remarks:	
Ozone Class ¹ :	II	Production method:	Extrusion		
	Seal type	Model 117		Seal type	Model 140
	Nominal Dimensions	300-3000 mm		Nominal Dimensions	300-3000 mm
	Cross section	7-34 mm		Cross section	13-32 mm
Rubber Compound: EPDM 797/797E					
Hardness:	50 IRHD	Field of application ² :	I – WC	Remarks:	
Ozone Class ¹ :	I	Production method:	Injection (797), Extrusion (797E)		
	Seal type	Model 117		Seal type	Model 177
	Nominal Dimensions	300-3000 mm		Nominal Dimensions	1000-1500 mm
	Cross section	7-34 mm		Cross section	24-26 mm
	Seal type	Model 550		Seal type	Model 605
	Nominal Dimensions	315-425 mm		Nominal Dimensions	500, 630, 710 and 800 mm
	Cross section	17-30 mm		Cross section	22-43.8 mm
	Seal type	Model 521		Seal type	Model 520
	Nominal Dimensions	200-400 mm		Nominal Dimensions	315-400 mm
	Cross section	14.2-29.2 mm		Cross section	21.7-29.6 mm
	Seal type	Model 534		Seal type	
	Nominal Dimensions	600 mm		Nominal Dimensions	
	Cross section	42,5 mm		Cross section	
Rubber Compound: EPDM 798i					
Hardness:	60 IRHD	Field of application ² :	I – WC	Remarks:	
Ozone Class ¹ :	I	Production method:	Injection		
	Seal type	Model 576			
	Nominal Dimensions	100-400 mm			
	Cross section	13.8-28 mm			



Vulcanized rubber products for cold and hot non-drinking water applications

1	Ozone resistance class according to BRL-2013:
I	For products with a high risk of attack by ozone, for instance in case of separately supplied products without sufficient packaging or in case of connections with preinstalled rubbers under strain;
II	For products for which a normal resistance to ozone is required;
III	For rubbers which are never (partly) exposed to the open air when they are in tension. Transport shall always take place in sealed packages.
2	Field of application class according to BRL 2013 class:
I	Cold water supply at temperatures continuously up to 45 °C and intermittently up to 95 °C;
II	Hot water supply at temperatures intermittently up to 110 °C, or water supply up to 110 °C in serviceable piping systems;
III	Hot water circulation systems based on the classification class 2 in ISO 10508;
IV	District heating, secondary systems with hot water circulation between 75 °C and 95 °C.
	Field of application class according to EN 681-1:
WC	As in BRL-2013 class I;
WD	As in BRL-2013 class II;
WF	As in BRL-2013 class II, for IIR-copolymer;
WG	As in BRL-2013 class I, oil resistance.

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.

Marking

The following marks and indications must be provided on each product[#] and product packaging in a clear, legible and indelible way:

- the name of manufacturer or the deposited trade mark;
- KOMO (or KOMO® word mark) with certificate number;
- 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, III or IV);
- 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.

BRL number and certificate number; optional

RECOMMENDATION FOR THE CUSTOMER

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 delivery on the basis of the above, please contact:

- Trelleborg Pipe Seals Lelystad BV

and, if necessary:

- Kiwa Nederland B.V.

For the proper storage, transport and processing consult the instructions of the certificate holder.

Statements made in this certificate are not to be used instead of CE-marking and/or the required Declaration of Performance (DoP).

