CERTIFICATE

Product certificate
K91703/04

Issued *2021-07-15*

Replaces *K91703/03*

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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 Certification, Kiwa declares that legitimate confidence exists that the products supplied by

DIS MRP Seals (P) 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 10-10-2018.

Ron Scheepers
Kiwa

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

2871/180711

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PRODUCTS RvA C 002

Certification process consists of initial and regular assessment of:
- **quality system**
- **product**

Vulcanised rubber products for cold and hot drinking water applications

PRODUCT SPECIFICATION

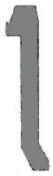
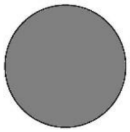
The products as specified in the table below fulfil the requirements of BRL-K17504. BRL-K17504 covers the requirements of EN 681-1, "Elastomeric seals - Materials requirements for pipe joint seals used in water and drainage applications - Part 1: Vulcanized rubber".

TECHNICAL SPECIFICATION OF THE PRODUCT

Rubber Compound:	EPDM 50 – CH EP 150 DM (EP 01951 PWRC)	EPDM 60 – CH EP 160 DM (EP 01961 PWRC)	EPDM 70 – CH EP 172 DM (EP 01072 PWRC)
Hardness:	50 IRHD	60 IRHD	70 IRHD
Ozone Class[1]:	I		
Field of application[2]:	I -WA & II -WB		
Production method:	Injection or compression moulding		
Remarks			

	Seal type	**HD Manchet 355**		Seal type	**HD Seals**
	Nominal Dimensions	200 - 500 mm		Nominal Dimensions	50 - 160 mm
	Cross sections	2 – 7 mm		Height	19,3 mm
				Cross sections	1,5 – 6,5 mm
	Seal type	**Rubberring trekvaste koppeling**		Seal type	**U2 afdichtings-ring VR**
	Nominal Dimensions	63 - 200mm		Nominal Dimensions	63 - 500 mm
	Height	12 - 24 mm		Height	58 – 70 mm
	Cross sections	3 - 10 mm		Cross sections	4,8 – 23 mm
	Seal type	**Afdichtingsring type 60 met fixering**		Seal type	**U2 afdichtings-ring SP**
	Nominal Dimensions	44 - 74 mm		Nominal Dimensions	50 – 315 mm
	Height	5 mm		Height	26 mm
	Cross sections	2 – 5,4 mm		Cross sections	2,2 – 9 mm
	Seal type	**Labyrintring**		Seal type	**kabeldoorvoer manchet**
	Nominal Dimensions	110 - 315 mm		Nominal Dimension	82 mm
	Height	14 mm		Height	70 mm
	Cross sections	4,2 – 8,2 mm		Cross section	4 – 5 mm
	Seal type	**Euro Manchet**		Seal type	**Wafix Flex Manchet 160**
	Nominal Dimensions	200 – 630 mm		Nominal Dimension	180 mm
	Height	38 - 69 mm		Height	16,4 mm
	Cross sections	1 – 10 mm		Cross section	2 - 4 mm

Vulcanised rubber products for cold and hot drinking water applications

	Seal type	**Afdichtingsring 450**		Seal type	**Putwand inlaat 125**
	Nominal Dimension	475 mm		Nominal Dimension	153 mm
	Height	44 mm		Height	55 mm
	Cross section	4 – 7 mm		Cross section	5,5 mm
	Seal type	**Fixmanchet**		Seal type	**Fixmanchet**
	Nominal Dimensions	63 – 315 mm		Nominal Dimensions	355 - 630 mm
	Height	20 mm		Height	32 mm
	Cross sections	2,5 – 8 mm		Cross sections	3 – 12 mm
	Seal type	**X-Stream Collapsible Seal 200-125, to 800-160**		Seal type	**X-Stream Inlet O-ring**
	Nominal Dimensions	200 - 800 mm		Nominal Dimensions	20 - 400 mm
	Height	32 - 40 mm		Cross section	1 - 25 mm
	Cross sections	3 – 8 mm			
	Seal type	**Bulldog**		Seal type	**Sealing Ring 63**
	Nominal Dimensions	315 mm		Nominal Dimensions	63 mm
	Height	38 mm		Height	17 mm
	Cross sections	4 – 8 mm		Cross sections	4 – 8 mm
	Seal type	**Gasker Guider Block**		Seal type	**Gasket upper part**
	Nominal Dimensions	90 mm		Nominal Dimensions	90 mm
	Height	49 mm		Cross section	4 - 10 mm
	Cross sections	1 – 10 mm			
	Seal type	**Wavin 160-315 Zadel**		Seal type	**U2 rubber afdichtingsring SP**
	Nominal Dimension	73 mm		Nominal Dimensions	50 - 315 mm
	Height	4,9 mm		Height	30 mm
	Cross section	3 – 4,5 mm		Cross sections	2,5 - 8 mm
	Seal type	**Euro afdichtring 200**		Seal type	**Manchet 110**
	Nominal Dimensions	63 - 200 mm		Nominal Dimensions	110 - 250 mm
	Height	34 mm		Height	23 mm
	Cross sections	3 - 7 mm		Cross sections	2 - 4 mm

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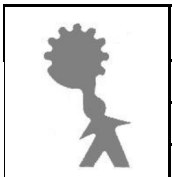
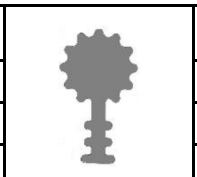
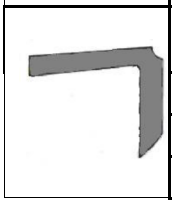
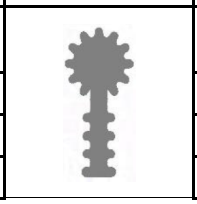
	Seal type	**PK Manchet** ●		Seal type	**PK Komeetring** ●
	Nominal Dimensions	63 - 315 mm		Nominal Dimensions	150 - 258 mm
	Height	24 - 28 mm		Height	14 mm
	Cross sections	2,1 - 7 mm		Cross section	2,5 - 12 mm
	Seal type	**Prince Packing 50/63**		Seal type	**Prince Komeet Chord** ●
	Nominal Dimensions	50 - 250 mm		Nominal Dimensions	4000 - 8000 mm
	Height	12 mm		Height	24 - 45 mm
	Cross section	2 mm		Cross section	4 – 23 mm

● These seals can be marked with a blue dot for identification.

1 Ozone resistance class according to BRL-K17504:

- 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 –K17504:

- I Water supply at temperatures up to 50 °C;
- II 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;

Field of application class according to EN 681-1:

WA As in BRL-K17504 class I;
WB As in BRL-K17504 class II;
WE As in BRL-K17504 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.

Fitness for contact with drinking water

This product is approved on the basis of the requirements for hygienic aspects set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" ("Materials and chemicals in the supply of drinking water and warm tap water Regulation" dated 01-07-2017; published in the Government
Gazette).
These hygienic aspects are based on two main criteria. The product shall permanently comply with:

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

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

MARKING

The 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;
- 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 rubber rings are meant to be used in cold (≤ 25 ºC) and warm (≤ 60 ºC) water applications.

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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:

- DIS MRP Seals (P) Ltd

and, if necessary,

- Kiwa Nederland B.V.

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