

Flange Gaskets - Type RSG 4 pipes



DVGW Registration
number: NG-5113DM0218

Product Information

RSG 4 pipes Rubber-Steel-Flange-Gaskets are manufactured of friction-locked vulcanised elastomer with an inner steel ring. The elastomer body provides secure sealing of the flange connection. The special shape with the elliptic ring on the inside provides an in-built seal with additional, functional sealing potential. This special shape works like an additional "O-ring". The inner steel ring provides a high level of physical stability and long-term functionality. Clear identification marking in different colours prevents any mismatching or mix-ups.

Material qualities, approvals and technical data

RSG-TW for drinking water and sewage water networks: EPDM

Operating temperature: -25°C to +120°

Hardness degree: 70+/-5 Shore A

Approvals: **DVGW W270, Elastomer guide line of UBA/KTW, WRAS and ACS,**
DVGW certificate of conformity hygiene

Specifications: DIN-EN 681-1, Type WAWC/70

RSG-G for Gas Systems: NBR

Operating temperature: -25°C to 90°C

Hardness degree: 80+/-5 Shore A

Approval: **DVGW-EN 682** (Installation for transport and distribution of gases or liquid hydrocarbons, hydrogen resistant)

Specifications: DIN-EN 682, Type GBL/80;
DIN-EN 30690-1/EN 13555/VDI 2200
Possible field of application up to incl. PN40 (DP40) - tested, certified

RSG-FKM for the chemical industry

Operating temperature: -25°C bis 200°C

Hardness degree: 70 ± 5 Shore A

Out of all the elastomer qualities, FKM has the best resistance to heat, chemicals and solvents.

Other materials on request.

Application

Rubber-steel-flange gaskets are intended for:

- drinking water pipelines and systems
- sewage water pipelines and systems
- gas pipeline systems
- all iron, stainless steel, cast iron and plastic flange connections



The elastomers offers a wide range of resistancy.

EPDM provides excellent resistance to several substances, including different chemicals, industrial water, aqueous salt solutions and is **DVGW approved for drinking water application.**

Very good ozone and UV resistance!

NBR provides excellent resistance to several substances, including different mineral oils, fuels, greases, other hydrocarbons and **100% H₂ hydrogen.** **DVGW approved for gas application.**

FKM is very resistant to alkalis, acids and high temperatures.

Chemical resistance table available: www.4pipes.de

Advantages

- printing and colour markings according to standards
- self-centring (inner-bolt-circle layout)
- easy assembling
- high tightening value at low bolt forces due to special shape (elliptic ring)
- best performance for secure tightening in plastic flanges
- high physical stability in assembling and operating process
- high operating safety
- no retorquing required
- no leakage
- cost efficient

RSG flange gaskets - Types

RSG-TW RSG-FKM RSG-G	Manufactured acc. to DIN EN 1514-1 (formerly DIN 2690) type IBC for flanges acc. to DIN EN 1092-1 and -2
RSG-TW-K RSG-G-K RSG-FKM-K	Manufactured for PE/PP/PVC/PVDF pressure pipe Flanges with plastic welding necks, lap-joint flanges with welding rod or flanged bush similar to DIN 16962-4 (PP)/DIN 16963-4 (PE)/DIN EN 1092-1 (DIN 2501 PN 10/16) Type IBC
RSG- ANSI	Manufactured for ANSI/ASME B16.5 type IBC flanges
For all available dimensions and pressure ratings, please see our price list or feel free to ask for what is required.	

The 4 pipes warranty only applies to faulty material. Checking the suitability of the product for the individual application is solely the responsibility of the user. 4 pipes does not grant any warranty for pre-installed or reused flange gaskets.