

RSG Rubber-Steel-Gasket

Approved for gas and drinking water



RSG Rubber-Steel-Gaskets

Rubber-steel gaskets (RSG) consist of a defined elastomer with a vulcanised metal ring. The ring in the core of the gasket ensures good surface pressure absorption and supports the centring of the gasket in the flange. Rubber-steel gaskets are used in flange systems for sealing water, waste water, gas, air, acids and diluted alkalis, among other things.

Rubber-steel gaskets have their application limit according to DIN 30690-1, which is part of the DVGW regulations. Our EPDM gaskets have UBA KTW-BWGL approval and can therefore be installed in drinking water applications. NBR gaskets are approved for use in the gas sector, among others. RSG gaskets comply with the requirements of requirements of DIN EN 682 and DIN EN 681-1.

RSG NBR gas

NBR - Nitrile-Butadiene-Rubber

temperatures: -20°C bis +80°C

application: Gaseous fuels (manufactured gas, natural gas or liquid gas)
Resistant to hydraulic oils, water glycols and oil in water emulsions, mineral oils and mineral oil products, animal and vegetable oils, petrol, heating oil

flanges: Stainless steel, steel, coated flanges, GRP, PP, PVC and PE

certified: DVGW type examination certificate
DIN EN 682

hardness:
(from elastomere) 70+/-5 Shore A

material
steel core: 1.0038 (St 37-2)

RSG EPDM drinking water

EPDM - Ethylene-Propylene-Diene-Rubber

temperatures: -30°C bis +120°C

application: Drinking water and waste water
Very good ageing resistance even when exposed to UV radiation and ozone.
Resistant to diluted acids and e.g. brake fluids that do not contain mineral oil. Not resistant to mineral oil products!

flanges: Stainless steel, steel, coated flanges, GRP, PP, PVC and PE

certified: DVGW confirmation of conformity Hygiene
UBA KTW-BWGL
DIN EN 681-1

hardness:
(from elastomere) 70+/-5 Shore A

material
steel core: 1.0038 (St 37-2)

We recommend that the gaskets and flange connections are only installed by qualified personnel (e.g. in accordance with DIN EN 1591-4:2013).

RSG dimensions

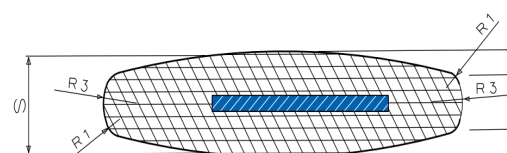
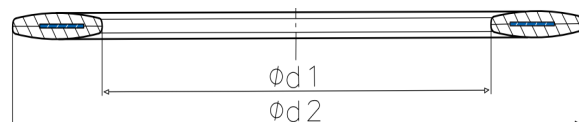
nominal diameter DN	thickness S	inner-Ø d1	outer diameter d2				
			PN 6	PN 10	PN 16	PN 25	PN 40
15	4	22	-	Ø PN 40 use			51
20	4	27	-	Ø PN 40 use			61
25	4	34	-	Ø PN 40 use			71
32	4	43	76	Ø PN 40 use			82
40	4	49	-	Ø PN 40 use			92
50	4	61	96	Ø PN 40 use			107
65	4	77	116	Ø PN 40 use			127
80	4	89	-	Ø PN 40 use			142
100	5	115	152	Ø PN 16	162	Ø PN 40	168
125	5	141	182	Ø PN 16	192	Ø PN 40	194
150	5	169	207	Ø PN 16	218	Ø PN 40	224
200	6	220	262	Ø PN 16	273	284	290
250	6	273	317	328	329	340	352
300	6	324	373	378	384	400	417
350	7	356	423	438	444	457	474
400	7	407	473	489	495	514	546
450	7	458	-	539	-	-	-
500	7	508	578	594	617	624	-
600	7	610	679	695	734	731	747
700	8	712	784	810	804	833	-
800	8	813	890	917	911	942	-
900	8	915	990	1017	1011	1042	-
1000	8	1016	1090	1124	1128	1154	-
1200	8	1220	-	1341	-	-	-
1400	8	1420	-	1548	-	-	-

dimensions according to DIN EN 1514-1

RSG-labelling

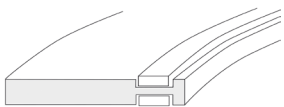
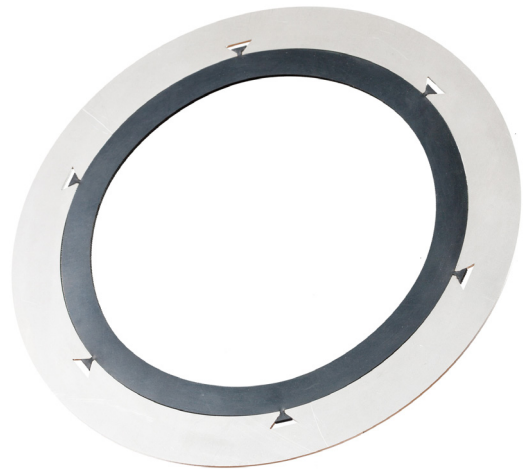
Each gasket is labelled with:

- type of seal
- manufacturer's mark
- nominal size (DN, PN)
- elastomer version (NBR | EPDM)
- approval/testing
- year and quarter of manufacture



RSG-seals in force shunt

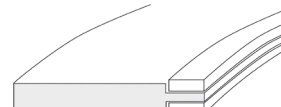
Elastomer gasket replaceable



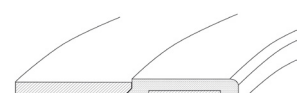
MIT-RSG-FG-KNS-TG



MIT-RSG-FG-KNS-TG-BUR



MIT-RSG-FG-KNS-SR



MIT-RSG-FG/FG-CV

Our RSG gaskets for use in force shunt applications can be designed for gas and drinking water. Depending on the application, the seal is designed with the required elastomer.