Flange gasket Type RSG 4 pipes

Flange gasket Type RSG 4 pipes

Rubber Steel Gasket Type RSG

KTW/ W270 Portable Water

Product Information

The rubber steel gasket type RSG serve as secure sealing element at low bolt force loads of a pipe flange connection for the industrial drinking-, gas and sewage water networks such as for general pipelines and plant construction. The vulcanized steel ring will overtake the bolt force load and provides long- term stability.

The rubber steel gasket type RSG is produced according to DIN EN 1514- 1 (Form IBC). In that way, the gaskets are self-centering with the outside diameter in the inner bolt circle. (Flange rubber steel gasket type RSG according to DIN 2690 and for plastic flanges on request)

Material Quality and Approval

For Portable Water, Industrial and Sewage Water networks: EPDM
Is tested for portable water according to KTW/W270 (German regulation) and DIN EN 681

For Gas Systems: NBR
Is tested for gas according to DIN-DVGW and DIN EN 682 Type GB

Application

The flange rubber steel gasket type RSG can be used for steel, stainless steel, cast iron, plastic and flanges with internal lining.

EPDM rubber steel gasket type RSG:
Have excellent resistance against several media such as portable water, industrial water, chemicals and aqueous salt solutions.

NBR rubber steel gasket type RSG:
Have excellent resistance against several media such as mineral oils, fuels and grease.

Advantages

- Effecting a secure seal with low torque
- Very good media resistance
- Excellent rubber alignment on flange surface with low flange connection pressure
- Sealing for damaged flange surface
- No retorquing required
- Rubber seal with steel ring for long-term stability

Technical Data

Please find the dimension and pressure rates in our price list or ask us.

Elastomeric material according to DIN-ISO R 1629:

EPDM
Operating temperature: -25°C to +120°C
Hardness (Shore A): 70+/- 5
Color: Black
Approval: KTW/W270, DIN EN 681-1

NBR
Operating temperature: -25°C to +90°C
Hardness (Shore A): 70+/- 5
Color: Black
Approval: DIN-DVGW, DIN EN 682 Type GB

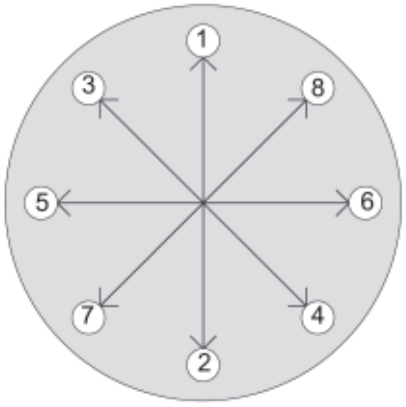
Flange dimension
Nominal Dimension: ND 15 - 2000
Pressure Nominal: PN 6 - PN 25
Gasket dimension according DIN EN 1514-1, Form IBC

4 pipes GmbH Sigmundstraße 182 • 90431 Nürnberg • Phone: +49 (0)911 81006-0 • Fax: +49 (0)911 81006-111
E-mail: info@4pipes.de • www.4pipes.de

Flange gasket Type RSG 4 pipes

Installation guide

1. The sealing surface of the flange has to be clean, free of grooves and edges.
2. Insert the gasket carefully between the flange sealing surfaces
3. Lubricate screws
4. Tighten screws evenly (in three steps 30% + 40% + 30%) with a torque wrench acc. to the tightening torque table spec.



Tightening torque (in Nm) for rubber steel gasket type RSG					
DN	**PN 6**	**PN 10**	**PN 16**	**PN 25**	**PN 40**
15	6	11	11	11	11
20	10	16	16	16	16
25	13	21	21	21	21
32	22	36	36	36	36
40	28	45	45	45	45
50	31	58	58	58	58
65	42	77	77	38	38
80	70	45	45	45	45
100	74	49	49	70	70
125	50	64	64	105	105
150	54	89	89	124	124
200	76	123	82	123	155
250	65	102	127	177	234
300	105	105	160	177	245
350	136	133	177	264	345
400	111	160	223	340	515
500	120	188	316	370	437

Torque specification is based on a friction coefficient of 0,12 µ and a max. surface pressure of 15 N/mm².

Tightening torque for flanges larger ND 500 can be calculated acc. to following method:

PN 10: $\frac{ND}{3}$ = torque in Nm

PN 16: $\frac{ND}{1,5}$ = torque in Nm

PN 25: ND = torque in Nm
PN 40: ND * 2 = torque in Nm

For PE flanges please note:
The tightening torque must be adjusted to the grade of the PE Flange.
The tightening torque values are approximate values, they can change under influence of various parameters such as temperature, lubrication, etc.

4 pipes GmbH Sigmundstraße 182 • 90431 Nürnberg • Phone: +49 (0)911 81006-0 • Fax: +49 (0)911 81006-111
E-mail: info@4pipes.de • www.4pipes.de