

STÅLARMERTE PAKNINGER

DRIKKEVANNSGODKJENT

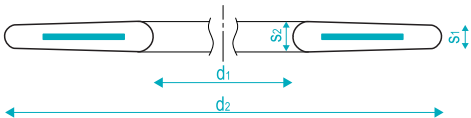


TINGSTAD

EN 1514-1 Flenspakning stålmert NBR

Stålmert flenspakning i NBR som er vulkanisert i et stållegg. Stålleget sikrer enkel montasje og høyere toleranse mot trykk og belastninger. Flenspakningen er iht. EN 1514-1 (DIN 2690) og er selvsentrende. Grunnet den koniske formen vil Tingstad sin stålmerte flenspakning også kunne erstatte flenspakninger med integrert o-ring (o-ring seal). Temperaturområde er -25 til +90 celsius. Trykk klasse er mellom PN 6 til PN 40. Typiske bruksområder er flenser med vann under trykk, vannbehandlingsanlegg, vannforsyning, renseanlegg, varme og kjøleanlegg.

Godkjennelser	Beskrivelse
DIN-DVGW	Rørledninger for gass
Produktgruppe: 17 Varegruppe: 1702	



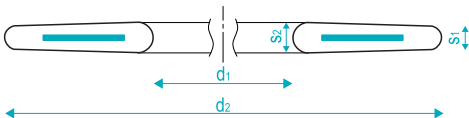
DIN/EN 1514-1 - NBR

Varenr	ND	ID	OD	t	Trykk-klasse
425370	ND20	27	61	4	PN10-40
425371	ND25	34	71	4	PN10-40
425372	ND32	43	82	4	PN10-40
425373	ND40	49	92	4	PN10-40
425374	ND50	61	107	4	PN10-40
425375	ND65	77	127	4	PN10-40
425376	ND80	89	142	4	PN10-40
425377	ND100	115	162	5	PN10-16
425378	ND125	141	192	5	PN10-16
102914	ND150	169	218	5	PN10-16
102915	ND175	195	248	5	PN16
102917	ND200	220	273	6	PN10-16
102918	ND250	273	329	6	PN16

Varenr	ND	ID	OD	t	Trykk-klasse
102919	ND300	324	378	6	PN16
102945	ND350	356	444	7	PN16
102946	ND400	407	489	7	PN10
425322	ND500	508	594	7	PN10
108867	ND600	610	695	6/7	PN10
108868	ND700	712	810	7/8	PN10
108869	ND800	813	917	7/8	PN10
108870	ND900	915	1017	7/8	PN10
108871	ND1000	1016	1124	7/8	PN10
108872	ND1200	1220	1341	8/10	PN10
108873	ND1400	1420	1548	7/8	PN10
108874	ND1600	1620	1772	8/10	PN10

EN 1514-1 Flenspakning ståalarmert EPDM

Ståalarmert flenspakning i EPDM som er vulkanisert i et stålinlegg. Stålinlegget sikrer enkel montasje og høyere toleranse mot trykk og belastninger. Flenspakningen er iht. EN 1514-1 (DIN 2690) og er selvsentrende. Grunnet den koniske formen vil Tingstad sin ståalarmerte flenspakning også kunne erstatte flenspakninger med integrert o-ring (o-ring seal). Temperaturområde er -25 til +90 celsius. Trykk klasse er mellom PN 6 til PN 40. Typiske bruksområder er flenser med vann under trykk, vannbehandlingsanlegg, vannforsyning, renseanlegg, varme og kjøleanlegg.



Godkjennelser	Beskrivelse
DIN-DVGW	Drikkevann
DIN-DVGW	Rørledninger for gass

Produktgruppe: 17 Varegruppe: 1702

DIN/EN 1514-1 - EPDM

Varenr	ND	t	ID	OD	Styrke	Varenr	ND	t	ID	OD	Styrke
425350	ND15	3	22	51	PN40	425363	ND250	6	273	329	PN16
425351	ND20	3	27	61	PN40	425364	ND300	6	325	378	PN16
425352	ND25	3	34	71	PN40	425365	ND350	7,0	368	445	PN16
425353	ND32	3	43	82	PN40	425366	ND400	7	407	489	PN10
425354	ND40	3	49	92	PN40	102913	ND500	7	508	594	PN10
425355	ND50	4	61	107	PN40	108929	ND600	6/7	610	695	PN10
425356	ND65	5	77	127	PN40	108930	ND700	7/8	712	810	PN10
425357	ND80	5	89	142	PN40	108931	ND800	7/8	813	917	PN10
425358	ND100	5	115	162	PN16	108932	ND900	7/8	915	1017	PN10
425359	ND125	5	141	192	PN16	108933	ND1000	7/8	1016	1124	PN10
425360	ND150	5	169	218	PN16	108934	ND1200	8/10	1220	1341	PN10
425361	ND175	5	195	248	PN16	108935	ND1400	7/8	1420	1548	PN10
425362	ND200	6	220	273	PN16	108936	ND1600	8/10	1620	1772	PN10



PSI RUBBER STEEL FLANGE GASKETS

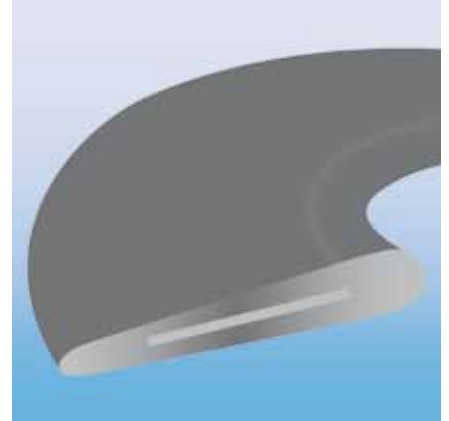
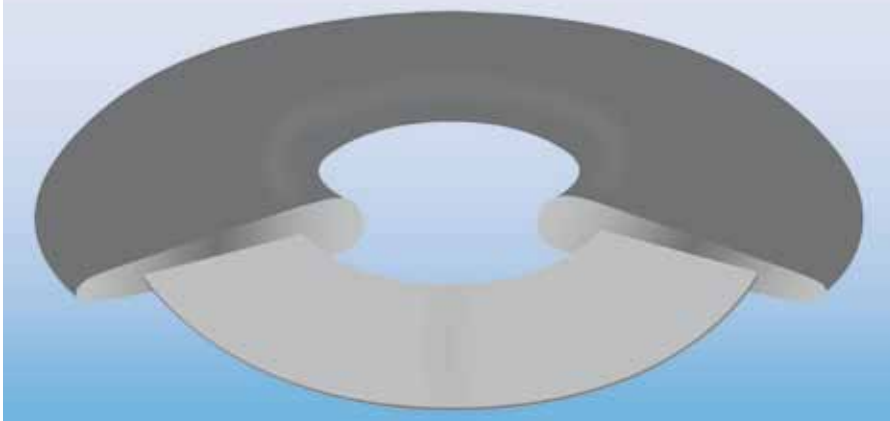


POTABLE WATER
KTW/W270



WWW.PSI-PRODUCTS.DE

GENERAL INFORMATION



Rubber steel gasket type G-S-S with vulcanised steel ring for greater dimensional stability, safe centring and perfect sealing according to DIN EN 1514-1 (PN6-40).

Gasket according to DIN 2690, ANSI and for plastic flanges upon request.

For dimensions from ND 15 up to ND 1200 (up to ND 2000 upon request)

Suitable for pressure ratings PN 6 up to PN 40



Advantages

- Low tightening torque
 - No retightening of flange bolts required
 - Even longitudinal pressing distribution on mismatched or misaligned flanges.
 - High resilience compensates for pressure changes and temperature fluctuations
 - Cost-effective due to high operational safety and low maintenance requirements
 - Resistant due to wide range of elastomers to choose from
 - Security against leakage for flanges with rough surfaces, damaged
- Flange gasketing surfaces as well as enamelled and rubberised flange surfaces

Applications

- General pipeline construction, plant construction: water, gas, sewage, oil and chemicals.
- Industry: enamel and rubberised pipelines
- Plastic pipelines and apparatus construction
- Mining



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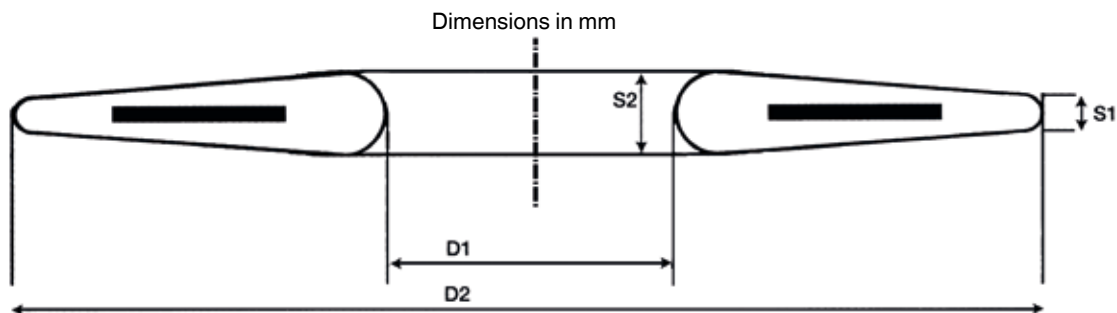
NBR . 70
EN 682
GBL



This content can be found at
www.psi-products.com

TECHNICAL DATA

Rubber steel gasket type G-S-S with vulcanised steel ring according to DIN EN 1514-1: Form IBC for pressure rates from PN 6 to PN 40



Example for gasket dimensions type G-SS-Standard

Elastomer materials according to ISO R 1629

Materials	Hardness Shore A	Temperature range
NBR / DVGW ⁽¹⁾	70 +/- 5	-25 °C to +90 °C
EPDM / KTW, W270 ⁽²⁾	70 +/- 5	-25 °C to +120 °C
FPM / VITON	75 +/- 5	-20 °C to +200 °C

⁽¹⁾ The material *NBR is used as a sealing material for gas supply pipelines and their components certified with quality mark DIN-DVGW Reg. NG-5113BR0477 according to EN 682 type GB (temperature range -5 °C to +50 °C)

⁽²⁾ in compliance with KTW D1 / D2, 1.3.13 BFA for potable water and W270 Physical properties of elastomer material according to test basis DIN EN 681-1.

Other dimensions and materials available upon request

Two in one

Due to its wedge shape, the the PSI wedge type rubber steel gasket can be used as an alternative to the so-called 'O-ring' seal, and as a standard rubber/steel seal.



Thanks to the thick bead on the side facing the medium, a rapid sealing effect is achieved with little tightening torque.

INSTALLATION INSTRUCTIONS



- Flanges must be clean, dry and aligned in parallel before work starts.
- The gasket must not be damaged
- Greasy separating agents or lubricants should not come into contact with the rubber gasket
- Tighten the bolts evenly in several rounds in a criss-cross pattern
- Appropriate support should prevent the pipeline settling as otherwise the rubber seal may be crushed on one side
- Rubber/steel gaskets should not be used more than once

Standard tightening torques (in Nm) for wedge-type rubber/steel flange gaskets

ND	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
600	173	250	480	500	-

For flanges ND 15 - ND 600:

The values are based on a coefficient of friction of $\mu = 0.12$ and a maximum surface pressure of 15 N/mm^2 , the number and sizes of screws comply with DIN standards 2632 to 2635.

The guideline values for tightening torques for flanges larger ND 600 can be calculated according to the following empirical formula:

PN 10: $\text{ND} \cdot 3 = \text{torque in Nm}$
 PN 16: $\text{ND} \cdot 1.5 = \text{torque in Nm}$
 PN 25: $\text{ND} = \text{torque in Nm}$
 PN 40: $\text{ND} \cdot 2 = \text{torque in Nm}$

If the raw materials consist of plastic, e.g. PE flanges, please note that the tightening torques must be adjusted or reduced according to the respective flange material.

