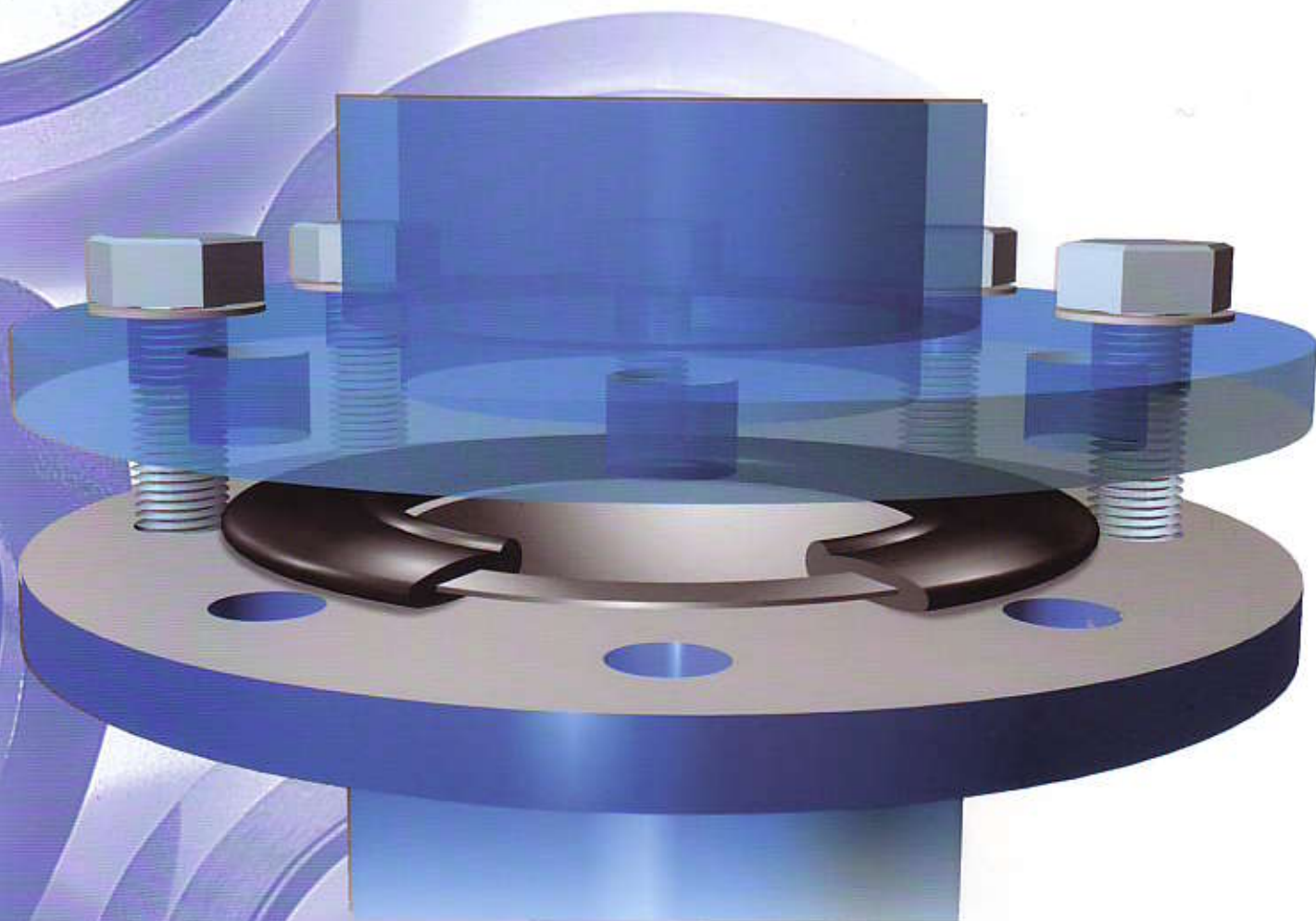


SEALED TIGHT!



G-ST-Flange Gaskets
G-ST-Profile Gaskets
G-ST-Wedge Rings

QM-System
zertifiziert durch:



KROLL & ZILLER



The gasket people

G-ST-Flange Gaskets G-ST-Profile Gaskets G-ST-Wedge Rings

Rubber-steel flange gaskets and adjustable wedge rings have been proven in use over many years in all areas of pipeline construction.

Steel mills, power plants, petrochemical, pharmaceutical industries as well as numerous gas and water companies at home and abroad value the advantages of **Kroll & Ziller** sealing products.



Product Range

Page



G-ST
For various applications.



10



G-ST/GUSS
In special dimensions.
For total covering of flange face.



13



G-ST-P/S
For various applications, top choice
for joints connecting non-metallic
(plastics or GRP) and steel flanges.



14



G-ST-P/K
To suit flange joints connecting
pairs of plastic stub ends.



16



G-ST-P/KN
For various applications, top choice
for partially coated flanges
and heavy duty services.



18



G-ST-P/HTB
For steel flange connections in
Fire Safe pipelines.



23



G-ST-P/OE
Flexible design gasket with
visible stainless steel insert.



24



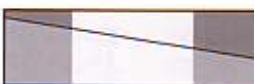
G-ST-P/GR
To suit pipework with soft rubber
lining and flange faces with
soft/hard rubber coating.



25



G-ST-Wedge Ring
Infinitely variable from 0° to 8°.



26

G-ST-Profile Gaskets

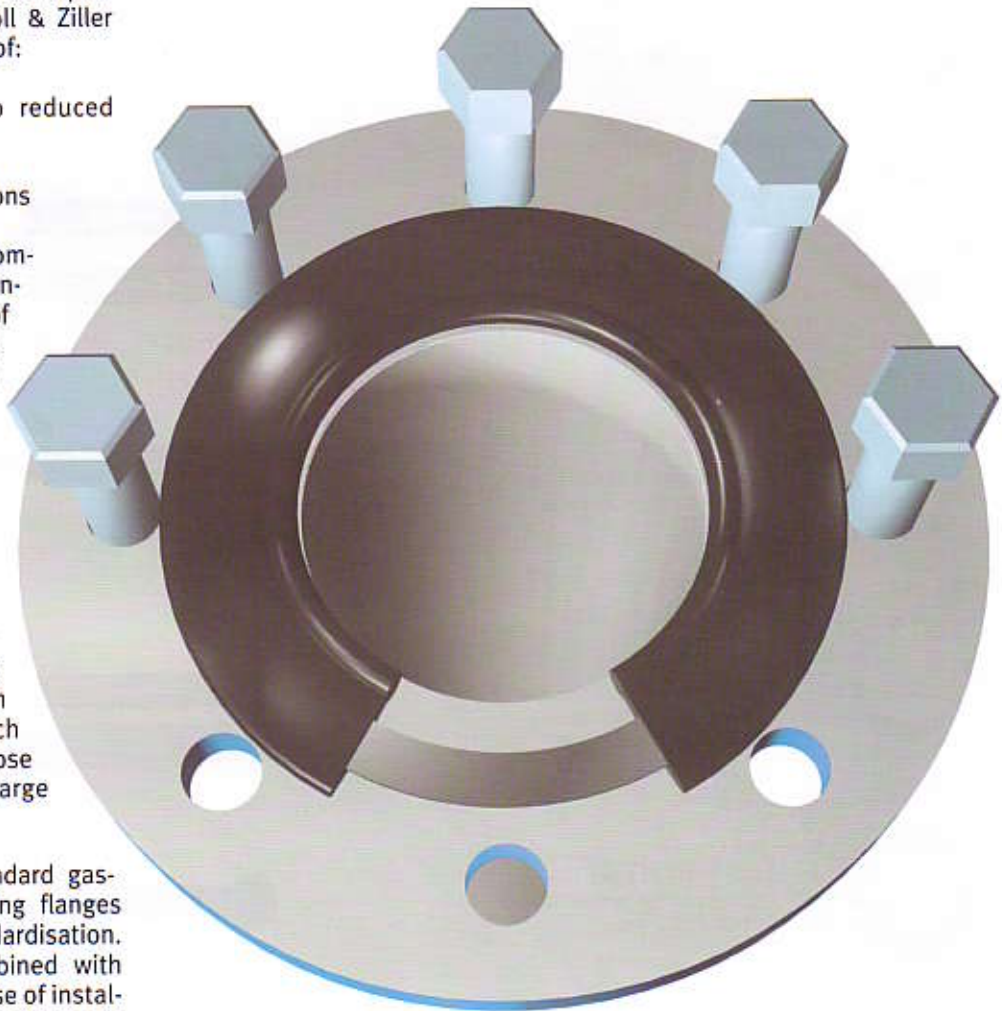
With 40 years of experience in solving individual sealing problems, we can provide you with a range of flange gaskets of exceptional operating reliability. With Kroll & Ziller gaskets you can be sure of:

- high efficiency due to reduced operating costs
- reduced fugitive emissions

Growing international competition makes cost minimisation in all areas of production necessary. Production disruptions and rejections, maintenance and repair costs must be prevented by choosing the best possible construction materials. The risk of possible environmental pollution must be eliminated. The policy of Kroll & Ziller over the last 15 years has been specialisation, research and development in close collaboration with a large number of customers.

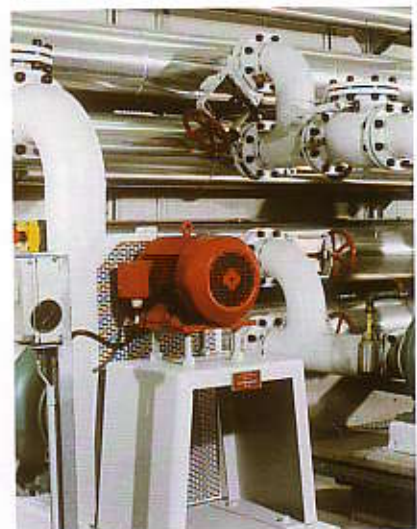
The wide range of standard gaskets available for sealing flanges allows top quality standardisation. High efficiency is combined with superb handling. The ease of installation is attributed to the rigid steel core even with large nominal widths and undesirable stresses. If you have a problem in choosing suitable gaskets, the experienced KROLL & ZILLER sales team is here to assist you.

**With steel insert
Flange bolts center the gaskets**



G - ST - P / *

- | | |
|-----|------------------------------------|
| S | for Steel pipes |
| K | for Plastic pipes |
| KN | for non-load bearing flange joints |
| OE | visible SS insert |
| HTB | for Fire safe |
| GR | for Rubber lined pipes |
| P | for Profile |
| ST | with Steel insert |
| G | for Rubber material |



G-ST-Profile Gaskets

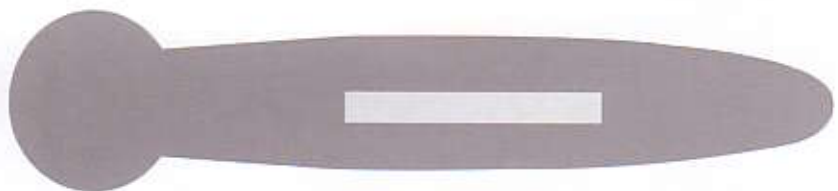
Proven in practice

Reliable sealing of flanged joints on pipelines has been made possible by the development of KROLL & ZILLER G-ST gaskets. Vulcanization provides an extremely good adhesion between the steel insert and the rubber sheath. Even when stressed to extremes, separation or blow-outs are not possible. Dimensions in accordance with standards prevents unnecessary flowrate reductions due to part-blocked cross-sections. Additionally, there is optimum handling during installation, since the gasket is self-centering on the bolt circle. The combination of these features makes the G-ST gasket the right choice for you.



The new generation

The G-ST-P profile gasket range illustrates the technological progress of KROLL & ZILLER. The basic concept is very clear in the graphic illustration of the gasket cross-section. The G-ST main body is combined with a round cord ring. This "O-ring" is the most static sealing element. The performance of this O-ring is almost miraculous even without a cost-intensive groove. The G-ST-P profile gasket combines the advantages of its individual parts. High surface pressures transmitted from the main force of the flow are absorbed by the rigid body of the G-ST gasket. The flat steel-ring, corrosion protected by being vulcanized in, absorbs the required test pressure with ease. The O-ring lying parallel to the main force of



the flow is ideally compressed against the sealing faces even at low surface pressures. Irregularities and grooves, even slight misalignments are compensated. Also, the gasket shows insensitivity to the minimum torques required during installation which spares the material. A degree of operating reliability - never before reached - is assured. Once in position - it is **sealed tight!** These advantages are especially important for flange joints of thermoplastics (PVC, PE, PP, PVDF). The special KROLL & ZILLER

gasket G-ST-P/S has the following advantages:

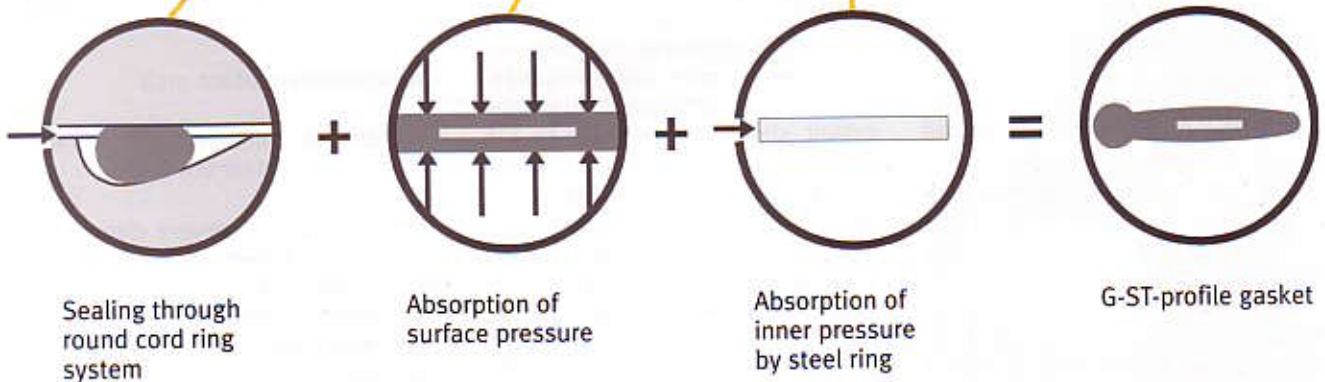
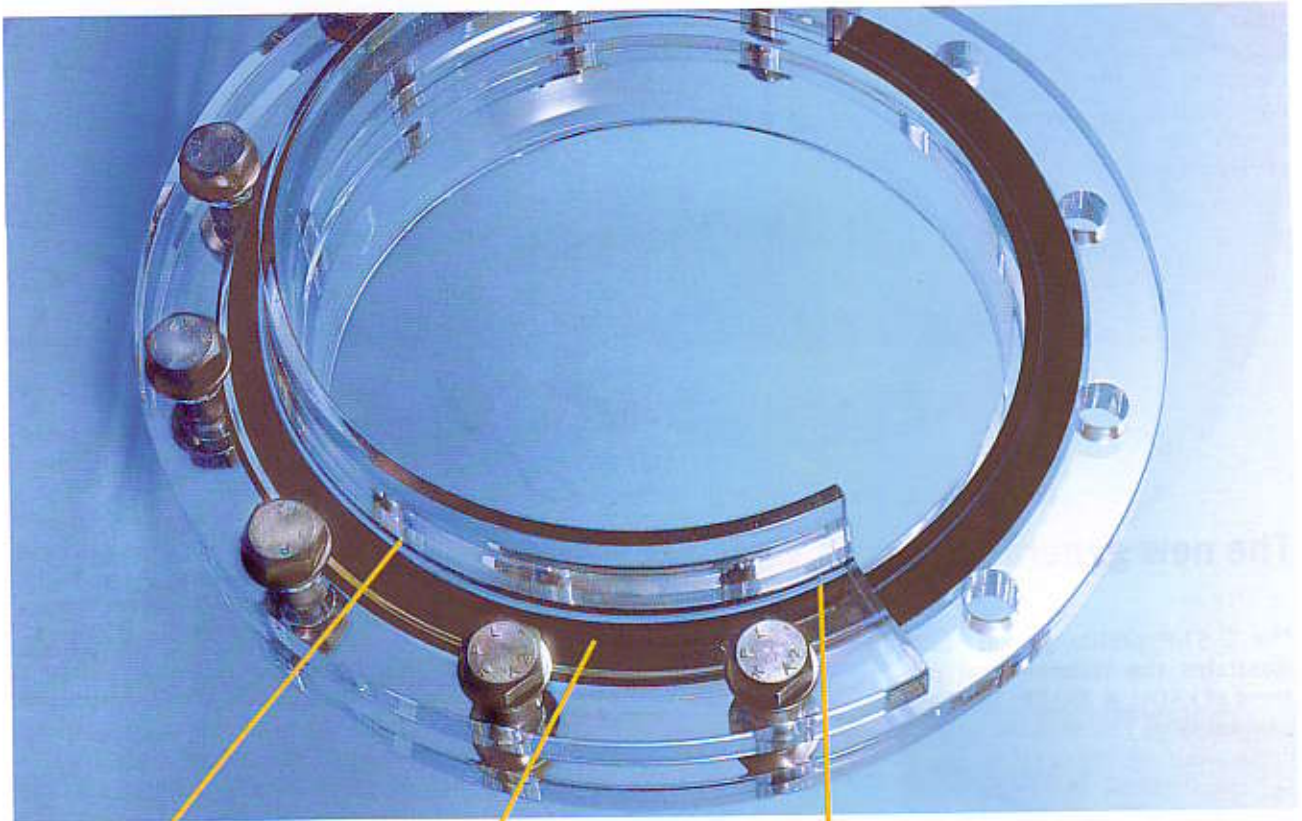
- wide sealing surface area
- rectangular instead of round cross-section near the O-ring

These attributes prevent deformation of the flange adapters. The round cord ring fills the enlarged gap reliably. Minimum required tightening torques protect the joining elements from being overloaded.

G-ST-Profile Gaskets

Benefits linked to G-ST-P gasket applications:

- sealing under minimum bolt tightening
- compensation of surface imperfections
- flange and bolt designs can be more lightweight
- higher durability of plastic flange joints
- angle differences are more easily compensated compared to simple flat gaskets
- expensive machining of an O-ring groove on the flange is unnecessary



Electrical characteristics of material used for gaskets

The surface resistance R_0 and the isolation resistance ρ_D has been determined according to DIN 53482, arrangement of electrodes style "C".

The desruptive voltage U_d has been tested due to DIN IEC 243-2/VDE 0303, part 22 with direct current.

(An electrode with a diameter of 25 mm combined with grounded electrode with a diameter of 75 mm in accordance with DIN VDE 0303, part 21.)

The tests involved items with a thickness of 1 and 5 mm.



material	R_0 (Ω) 1mm	R_0 (Ω) 5mm	ρ_D (Ω) 1mm	ρ_D (Ω) 5mm	Test voltage (V)	U_d (kV) 1mm	U_d (kV) 5mm
EPDM	0.45×10^3	0.85×10^3	0.5×10^3	0.6×10^3	1	nb	nb
NBR-DUO	3.30×10^3	5.35×10^3	1.5×10^3	3.2×10^3	10	nb	nb
CSM	2.55×10^{12}	1.15×10^{12}	5.5×10^{10}	8.9×10^{10}	100	>15	>15
FPM-S	2.45×10^{11}	2.35×10^{10}	6.2×10^9	7.4×10^9	100	>6	>15

nb = without results

Gasket parameters

due to DIN 28 090-1

due to ASME
Code Section VIII Div. 1
Table UA. 49.1

Profile			G-ST, P/S P/K, P/OE	G-ST, P/S P/K, P/OE	P/KN	P/KN	G-ST, P/S, P/K, P/OE		
materials			NBR CR, NR, EPDM, IIR	FPM-S, CSM	NBR, CR, NR EPDM, IIR	FPM-S, CSM	NBR, CR NR, EPDM IIR, CSM FPM-S		
recommended flange face roughness R_a	μm	max.	160	160	160	160	R_a	μ inch	500
surface pressure limits for 20° C	N/mm ²	$\delta_{VU/L}$ δ_{VO}	2 15	2 9	2 450	15 450	m y	- psi	1.00 200
surface pressure limits for 150° C	N/mm ²	$\delta_{BU/L}$ δ_{BO}	- -	2 5	- -	(15) (435)			

G-ST-Profile Gaskets

Extra reliability

The KROLL & ZILLER gasket range was proven in the testing.

Test parameters:

- medium: water
- temperature: 20° C / 68° F
- test pressure: 10 bar / 143 psi

Test samples

20" Gasket

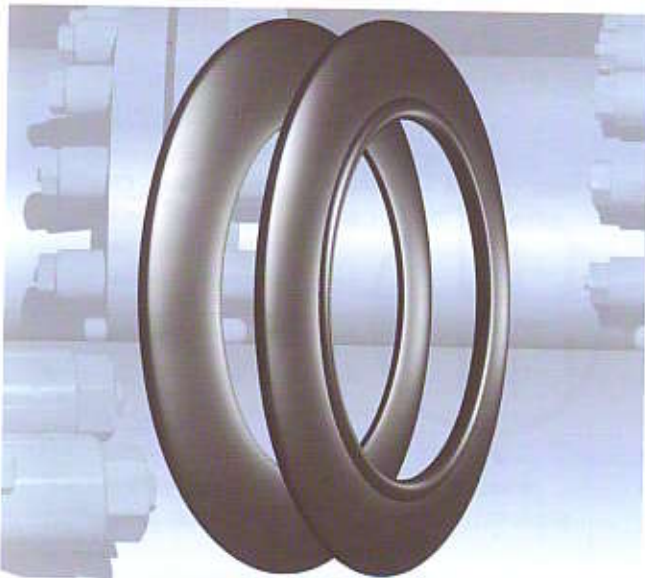
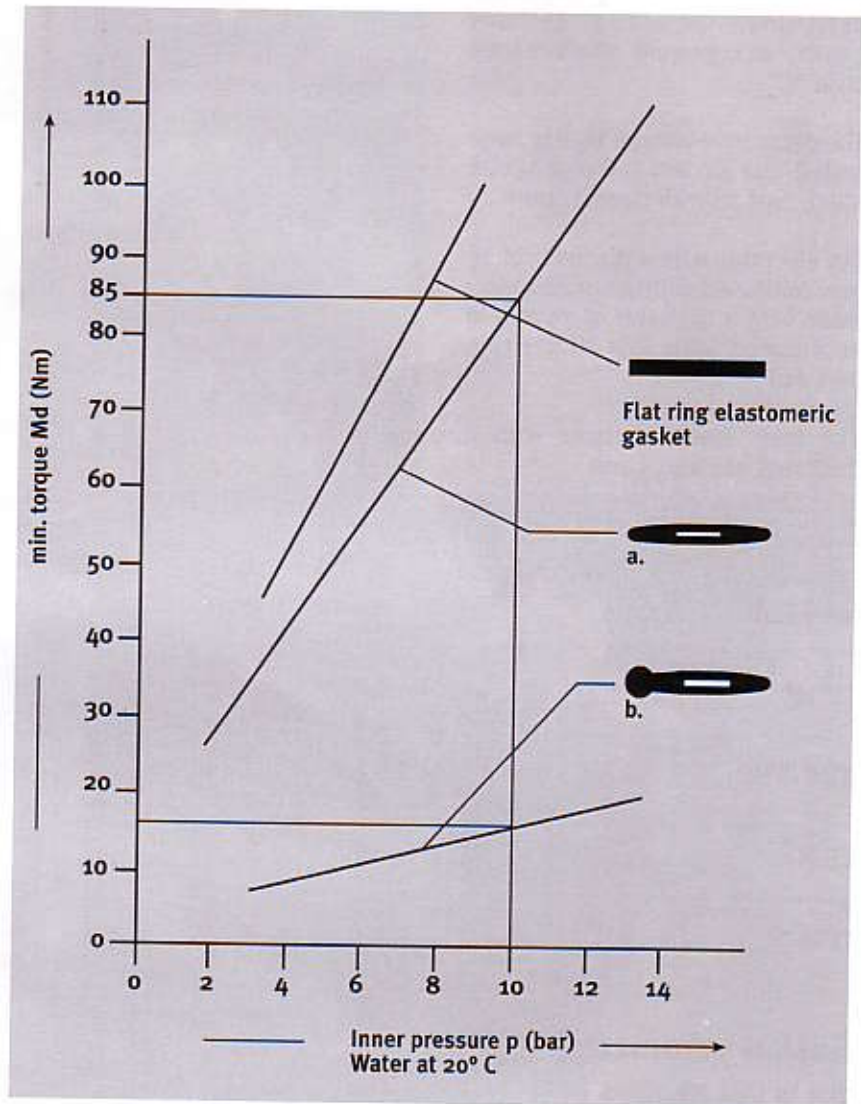
a = G-ST flange gasket
NBR-DUO

b = G-ST-P/S-profile flange gasket
NBR-DUO

c = Flat rubber gasket with textile
insert NBR

The result of the test series is shown in the graph:

With a pressure of 10 bar / 143 psi only a fraction of the required tightening torque calculated for the G-ST flange gasket is necessary for the G-ST-P/S profile gasket. However, use of the G-ST gasket with the higher value is recommended during installation. The extra reliability offsets many uncertainties in practice.



a. = G-ST-Flange Gaskets



b. = G-ST-Profile Gaskets



Materials:

NR = Natural rubber

Temp. tmax. -30...+ 60° C, Shore -A-hardness 60 ± 5
Temp. Tmax. -22...+ 140° F

NBR-DUO = Acrylonitrile Butadiene rubber

DIN-DVGW test mark, reg.no. NV-5261AP1125

DRINKING WATER

-Test approval by DVGW / TÜV Süddeutschland according to DIN EN 681-1

-KTW recommendation 1.3.13 in the areas D1 and D2, as well as hygienic test in accordance with DVGW code of practice W 270

-FDA, 21 CFR Ch.I (04/2000), § 177.2600

NATURAL GAS

-Test approval by DVGW according to DIN EN 682 substitutes DIN 3535, Part 3 reg.no. NG-5113AP1125

Temp. tmax. -25...+ 70° C, Shore-A-hardness 80 ± 5

Temp. tmax. -13...+ 158° F

HNBR = Hydrogenated Acrylonitrile Butadiene rubber

Temp. tmax. -25...+ 150° C, Shore-A-hardness 75 ± 5

Temp. tmax. -13...+ 302° F

CR = Chloroprene rubber

Temp. tmax. -25...+ 95° C, Shore-A-hardness 63 ± 5

Temp. tmax. -13...+ 203° F

CSM = Chlorosulphonated Monomer rubber

Temp. tmax. -20...+ 120° C, Shore-A-hardness 70 ± 5

Temp. tmax. -4...+ 248° F

EPDM* = Ethylene Propylene Diene Monomer rubber

-KTW recommendation 1.3.13 in the areas D1 and D2,

-FDA approved acc.to 21 CFR Ch.I (04/2000), § 177.2600

Temp. tmax. -30...+ 120° C, Shore-A-hardness 70 ± 5

Temp. tmax. -22...+ 248° F

FPM-S* = Fluorinated rubber acid proof

Temp. tmax. -20...+ 200° C, Shore-A-hardness 80 ± 5

Temp. tmax. -4...+ 392° F

IIR = Isobutene Isoprene rubber (Butyle rubber)

Temp. tmax. -25...+ 120° C, Shore-A-hardness 55 ± 5

Temp. tmax. -13...+ 248° F

Steel Insert

Standard: Carbon Steel

Optional: Stainless Steel

* also available as

"HP" (high purity)

G-ST

EN 1514-1

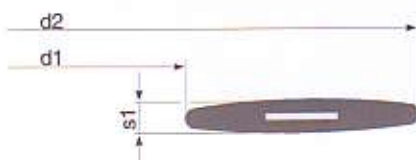
G-ST-Flange Gaskets

similar to DIN 2690

G-ST-Flange Gaskets

Nominal Diameter DN	Nominal Pressure PN	Dimensions in mm				
		d ₁	x	d ₂	x	s ₁
15	10-40	22	x	51	x	4
20	10-40	27	x	61	x	4
25	10-40	34	x	71	x	4
32	10-40	43	x	82	x	4
40	10-40	49	x	92	x	4
50	10-40	61	x	107	x	4
65	10-40	77	x	127	x	4
80	10-40	89	x	142	x	4
100	6	115	x	152	x	5
100	10-16	115	x	162	x	5
100	25-40	115	x	168	x	5
125	10-16	141	x	192	x	5
125	25-40	141	x	194	x	5
150	10-16	169	x	218	x	5
150	25-40	169	x	224	x	5
200	10-16	220	x	273	x	6
200	25	220	x	284	x	6
200	40	220	x	290	x	6
250	10	273	x	328	x	6
250	16	273	x	329	x	6
250	25	273	x	340	x	6
250	40	273	x	352	x	6
300	6	324	x	373	x	6
300	10	324	x	378	x	6
300	16	324	x	384	x	6
300	25	324	x	400	x	6
300	40	324	x	417	x	6
350	10	356	x	438	x	7
400	10	407	x	489	x	7
400	16	407	x	495	x	7
400	25	407	x	514	x	7
400	40	407	x	546	x	7
500	10	508	x	594	x	7
500	40	508	x	628	x	7
600	10	610	x	695	x	7
700	10	712	x	810	x	8
800	10	813	x	917	x	8
1000	10	1016	x	1124	x	8
1200	1-2.5	1220	x	1290	x	8
1200	6	1220	x	1307	x	8
1200	10	1220	x	1341	x	8
1200	16	1220	x	1342	x	8
1600	2.5	1620	x	1700	x	8
1600	10	1620	x	1772	x	8
1800	10	1820	x	1972	x	8
2000	10	2020	x	2182	x	8

Nominal Diameter DN	Nominal Pressure PN	Dimensions in mm				
		d ₁	x	d ₂	x	s ₁
50	10-40	57	x	107	x	4
100	10-16	108	x	162	x	5
100	25-40	108	x	167	x	5
125	6	141	x	182	x	5
125	10-16	133	x	192	x	5
150	6	169	x	207	x	5
150	10-16	159	x	218	x	5
175	10-16	195	x	248	x	5
175	40	195	x	267	x	5
200	10-16	216	x	273	x	6
200	25	216	x	285	x	6
250	10	267	x	328	x	6
300	10	318	x	378	x	6
350	6	368	x	423	x	7
350	10	368	x	438	x	7
350	16	368	x	445	x	7
350	25	368	x	458	x	7
350	40	368	x	475	x	7
400	6	420	x	473	x	7
400	10	420	x	490	x	7
400	16	420	x	497	x	7
400	25	420	x	515	x	7
400	40	420	x	547	x	7
450	10	470	x	540	x	7
500	6	520	x	575	x	7
500	10	520	x	595	x	7
500	16	520	x	618	x	7
500	25	520	x	625	x	7
600	10	620	x	695	x	7
600	16	620	x	735	x	7
600	25	620	x	730	x	7
600	40	620	x	745	x	7
700	6	720	x	785	x	8
700	10	720	x	810	x	8
800	6	820	x	890	x	8
800	10	820	x	915	x	8
800	16	820	x	910	x	8
800	25	820	x	940	x	8
900	6	920	x	990	x	8
900	10	920	x	1015	x	8
900	16	920	x	1010	x	8
900	25	920	x	1040	x	8
1000	6	1020	x	1090	x	8
1000	10	1020	x	1120	x	8
1000	16	1020	x	1125	x	8
1000	25	1020	x	1150	x	8
1000	40	1020	x	1190	x	8
1100	16	1120	x	1225	x	8
1100	25	1120	x	1260	x	8
1200	25	1220	x	1360	x	8
1200	40	1220	x	1395	x	8
1300		1320	x	1435	x	8
1400	10	1420	x	1545	x	8
1500		1520	x	1645	x	8



Quality requested by the trained Technicians

Quality for skilled technological progress does not stop in front of the pipe trench. However the stakes of an assembly job of a flange joint are still high. That is why the approved rubber steel gasket concept cannot be matched by alternative products.



G-ST

G-ST-Flange Gaskets in special dimensions

Nominal Diameter DN	Dimensions in mm			Nominal Diameter DN	Dimensions in mm			Nominal Diameter DN	Dimensions in mm		
	d ₁	x	d ₂ x s ₁		d ₁	x	d ₂ x s ₁		d ₁	x	d ₂ x s ₁
15	15	x	54 x 3	100	110	x	150 x 4	225	225	x	280 x 5
20	23	x	54 x 3	100	110	x	160 x 10	225	230	x	267 x 5
20	23	x	60 x 3	100	115	x	149 x 4	250	255	x	295 x 4
25	28	x	43 x 3	100	116	x	218 x 5	250	255	x	312 x 5
25	28	x	53 x 3	100	120	x	170 x 5	250	267	x	342 x 6
25	28	x	65 x 3	100	125	x	170 x 4	250	274	x	364 x 6
25	30	x	48 x 4	125	125	x	172 x 5	300	300	x	345 x 6
25	30	x	71 x 4	125	130	x	151 x 4	300	300	x	349 x 6
25	33	x	70 x 3	125	132	x	175 x 5	300	300	x	365 x 6
25	36	x	50 x 5	125	133	x	210 x 5	300	300	x	378 x 5
32	38	x	82 x 4	125	150	x	208 x 5	300	307	x	353 x 5
40	43	x	55 x 3	150	150	x	210 x 5	300	310	x	358 x 8
40	45	x	85 x 4	150	150	x	212 x 5	300	310	x	363 x 5
40	45	x	92 x 4	150	152	x	177 x 5	350	344	x	403 x 6
40	45	x	102 x 4	150	152	x	194 x 3	350	350	x	410 x 7
50	50	x	100 x 8	150	152	x	210 x 3.5	350	350	x	435 x 7
50	52	x	70 x 3	150	154	x	258 x 5	350	370	x	450 x 5
50	52	x	78 x 3	150	156	x	177 x 4	400	400	x	490 x 6
50	55	x	69 x 3	150	158	x	188 x 4	400	400	x	455 x 5
50	55	x	112 x 4	150	159	x	203 x 5	400	420	x	470 x 6
50	57	x	87 x 3	150	160	x	215 x 3.5	450	470	x	570 x 7
50	57	x	95 x 4	150	160	x	247 x 5	450	480	x	574 x 7
50	57	x	118 x 3	150	169	x	203 x 5	450	485	x	535 x 7
50	62	x	118 x 3	150	170	x	195 x 5	450	490	x	540 x 5
50	63	x	75 x 4	150	170	x	285 x 5	500	500	x	580 x 7
65	65	x	85 x 4	150	175	x	228 x 5	500	504	x	542 x 7
65	70	x	107 x 4	175	180	x	240 x 5	500	508	x	585 x 7
65	71	x	91 x 3	175	187	x	238 x 6	500	520	x	585 x 6
65	71	x	137 x 4	175	192	x	228 x 4	500	552	x	625 x 6
80	80	x	104 x 3	190	192	x	277 x 5	550	595	x	643 x 6
80	80	x	118 x 3	190	203	x	239 x 5	600	620	x	710 x 7
80	85	x	147 x 5	200	203	x	273 x 6	600	622	x	674 x 7
80	87	x	105 x 3	200	204	x	305 x 6	650	650	x	710 x 8
80	92	x	124 x 3	200	205	x	270 x 5	650	676	x	736 x 8
80	95	x	121 x 4	200	208	x	242 x 5	650	650	x	810 x 8
80	100	x	148 x 5	200	210	x	258 x 6	700	704	x	746 x 8
100	102	x	138 x 3	200	215	x	270 x 4	700	720	x	895 x 8
100	105	x	127 x 4	200	220	x	259 x 5	800	800	x	840 x 8
100	108	x	149 x 4	200	220	x	309 x 6	950	982	x	1050 x 8
100	108	x	173 x 5	200	225	x	239 x 5				

G-ST-Flange Gaskets

in special dimensions, to suit pressure class PN 10
Outer diameter according to DIN 2690, special inner diameter

Nominal Diameter DN	Dimensions in mm			Nominal Diameter DN	Dimensions in mm		
	d ₁	x	d ₂ x s ₁		d ₁	x	d ₂ x s ₁
25	17	x	70 x 4	300	299	x	378 x 7
40	34	x	92 x 4	350	329	x	438 x 7
50	44	x	107 x 4	400	378	x	490 x 7
65	61	x	127 x 4	500	485	x	595 x 7
80	72	x	142 x 4	600	587	x	695 x 7
100	97	x	162 x 5	700	687	x	810 x 8
125	121	x	192 x 5	800	786	x	915 x 8
150	149	x	218 x 5	900	884	x	1015 x 8
200	196	x	273 x 6	1000	986	x	1120 x 8
250	250	x	328 x 6				



G-ST/GUSS

G-ST/GUSS-Flange Gaskets

in special dimensions. For total covering of flange face.

The right gasket for utility

Flange gaskets for flange joints used in pipeline and facility construction works had been produced to match standards and directives precisely naming dimensions for inner and outer diameter.

The way to determine the inner diameter generally means that due to its size a considerably big partition of the face will not be covered.

Typical scenery:

- FFG-Pipe made of ductile cast iron with casted flanges and cement coating according to DIN 28 614, DN 80, PN 10-25

- I/D_{pipe} = 78 mm
- O/D_{pipe} = 133 mm
- area of flange face = 9.115 mm²

- Flange gasket DN 80, PN 10-40 according to DIN EN 1514-1

- I/D_{pipe pipe} = 89 mm
- O/D_{pipe} = 142 mm
- contact face with O/D_{pipe} = 7.672 mm²

Résumé: approx. 16% of the flange face will not be covered!

Due to insufficient corrosion protection especially to be found in old installations an agglomeration of rust might occur occasionally while dealing with aggressive water quality.

The usage of KROLL & ZILLER-gaskets style **TYP G-ST/GUSS** shoots that problem!

The inner diameter will be determined by the nominal pipe size of commodity pipe and fitting:

Nominal Diameter DN	Nominal Pressure PN	Dimensions in mm				
		d ₁	x	d ₂	x	s ₁
40	10-40	40	x	91	x	4
50	10-40	50	x	106	x	4
60	10-40	60	x	117	x	4
65	10-40	65	x	126	x	4
80	10-40	80	x	142	x	4
100	10-16	100	x	162	x	5
125	10-16	125	x	192	x	5
150	10-16	150	x	218	x	5
200	10-16	200	x	273	x	6
250	10-16	250	x	328	x	6
300	10	300	x	378	x	7
300	16	300	x	384	x	7
350	16	350	x	444	x	7
400	10	400	x	489	x	7
400	16	400	x	495	x	7
500	10	500	x	594	x	7
500	16	500	x	617	x	7

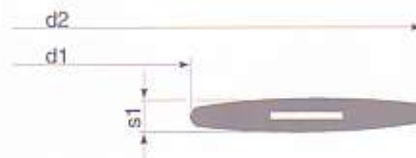


Naturally there are no additional restrictions caused by substitution. Of course the gaskets will be made of NBR-DUO. This material is approved for water and natural gas application (see DVGW or other international documents).

A stressmark is linked to the extended KTW requirements.

The worksheet W 270 "Approval against microbiological disease" is mandatory!

KROLL & ZILLER is again offering the tailor made solution.



G-ST-P/S

EN 1514-1

DIN 2690

G-ST-P/S-Profile Gaskets

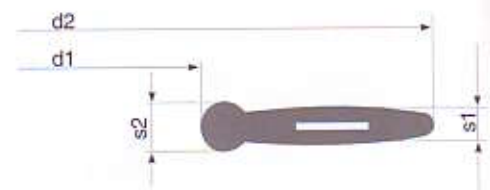


G-ST-P/S-Profile Gaskets



Nominal Diameter DN	Nominal Pressure PN	Dimensions in mm				
		d ₁	x	d ₂	x	s ₁ /s ₂
* 15	10-40	22	x	51	x	3/4
* 20	6	27	x	54	x	3/4
* 20	10-40	27	x	61	x	3/4
* 25	10-40	34	x	71	x	3/4
* 32	6	43	x	76	x	3/4
* 32	10-40	43	x	82	x	3/4
* 40	10-40	49	x	92	x	3/4
* 50	6	61	x	96	x	4/5
* 50	10-40	61	x	107	x	4/5
* 65	6	77	x	116	x	4/5
65	10-40	77	x	127	x	4/5
80	10-40	89	x	142	x	4/5
100	6	115	x	152	x	5/6
100	10-16	115	x	162	x	5/6
100	25-40	115	x	168	x	5/6
125	6	141	x	182	x	5/6
125	10-16	141	x	192	x	5/6
125	25-40	141	x	194	x	5/6
150	6	169	x	207	x	6/8
150	10-16	169	x	218	x	6/8
150	25-40	169	x	224	x	6/8
200	6	220	x	262	x	6/8
200	10-16	220	x	273	x	6/8
200	25	220	x	284	x	6/8
200	40	220	x	290	x	6/8
250	6	273	x	317	x	6/8
250	10	273	x	328	x	6/8
250	16	273	x	329	x	6/8
250	25	273	x	340	x	6/8
250	40	273	x	352	x	6/8
300	6	324	x	373	x	6/8
300	10	324	x	378	x	6/8
300	16	324	x	384	x	6/8
300	25	324	x	400	x	6/8
300	40	324	x	417	x	6/8
350	10	356	x	438	x	7/10
350	16	356	x	444	x	7/10
400	10	407	x	489	x	7/10
400	16	407	x	495	x	7/10
450	10	458	x	539	x	7/10
450	16	458	x	555	x	7/10
500	10	508	x	594	x	7/10
500	16	508	x	617	x	7/10
600	10	610	x	695	x	7/10
600	16	610	x	734	x	7/10
700	10	712	x	810	x	8/11
700	16	712	x	804	x	8/11
800	10	813	x	917	x	8/11
800	16	813	x	911	x	8/11
900	10	915	x	1017	x	8/11
900	16	915	x	1011	x	8/11
1000	10	1016	x	1124	x	8/11
1000	16	1016	x	1128	x	8/11
1200	2.5	1220	x	1290	x	8/11
1200	6	1220	x	1307	x	8/11
1200	10	1220	x	1341	x	8/11
1200	16	1220	x	1342	x	8/11
1400	2.5	1420	x	1490	x	8/11

Nominal Diameter DN	Nominal Pressure PN	Dimensions in mm				
		d ₁	x	d ₂	x	s ₁ /s ₂
350	6	368	x	423	x	7/10
350	10	368	x	438	x	7/10
350	16	368	x	445	x	7/10
350	25	368	x	458	x	7/10
350	40	368	x	475	x	7/10
400	6	420	x	473	x	7/10
400	10	420	x	490	x	7/10
400	16	420	x	497	x	7/10
400	25	420	x	515	x	7/10
400	40	420	x	547	x	7/10
450	6	470	x	528	x	7/10
450	10	470	x	540	x	7/10
450	16	470	x	557	x	7/10
450	25	470	x	565	x	7/10
450	40	470	x	572	x	7/10
500	6	520	x	578	x	7/10
500	10	520	x	595	x	7/10
500	16	520	x	618	x	7/10
500	25	520	x	625	x	7/10
500	40	520	x	628	x	7/10
600	6	620	x	680	x	7/10
600	10	620	x	695	x	7/10
600	16	620	x	735	x	7/10
600	25	620	x	730	x	7/10
600	40	620	x	745	x	7/10
700	6	720	x	785	x	8/11
700	10	720	x	810	x	8/11
700	16	720	x	805	x	8/11
700	25	720	x	830	x	8/11
700	40	720	x	850	x	8/11
800	6	820	x	890	x	8/11
800	10	820	x	915	x	8/11
800	16	820	x	910	x	8/11
800	25	820	x	940	x	8/11
800	40	820	x	970	x	8/11
900	6	920	x	990	x	8/11
900	10	920	x	1015	x	8/11
900	16	920	x	1010	x	8/11
900	25	920	x	1040	x	8/11
900	40	920	x	1080	x	8/11
1000	6	1020	x	1090	x	8/11
1000	10	1020	x	1120	x	8/11
1000	16	1020	x	1125	x	8/11
1000	40	1020	x	1190	x	8/11
1100		1120	x	1215	x	8/11
1200		1215	x	1285	x	5.5/7
1200	40	1220	x	1395	x	8/11
1200		1280	x	1380	x	8/11
1400		1454	x	1540	x	8/11



G-ST-P/S-Profile Gaskets



Nominal Pipe Size NPS	Dimensions in mm Pressure Class 150 lbs			Dimensions in mm Pressure Class 300 lbs		
	d ₁	d ₂	s ₁ /s ₂	d ₁	d ₂	s ₁ /s ₂
1/2"	21	45	3/4	20	51	3/4
3/4"	27	54	3/4	27	64	3/4
1"	33	64	3/4	33	70	3/4
1 1/4"	42	73	3/4	42	80	3/4
1 1/2"	48	83	3/4	48	92	3/4
2"	60	102	4/5	60	108	4/5
2 1/2"	73	121	4/5	73	127	4/5
3"	89	133	4/5	89	146	4/5
3 1/2"	102	159	4/5	102	162	4/5
4"	115	171	5/6	115	178	5/6
5"	140	193	5/6	140	213	5/6
6"	168	219	6/8	168	247	6/8
8"	219	276	6/8	219	305	6/8
10"	273	337	6/8	273	359	6/8
12"	325	406	6/8	325	419	6/8
14"	356	448	7/10	356	482	7/10
16"	406	512	7/10	406	537	7/10
18"	457	547	7/10	457	594	7/10
20"	508	604	7/10	508	651	7/10

Nominal Pipe Size NPS	Dimensions in mm Pressure Class 150 lbs			Dimensions in mm Pressure Class 300 lbs		
	d ₁	d ₂	s ₁ /s ₂	d ₁	d ₂	s ₁ /s ₂
24"	610	715	7/10	610	772	7/10
26"	665	771	7/10	665	832	7/10
28"	720	829	8/11	720	895	8/11
30"	770	880	8/11	770	949	8/11
32"	820	937	8/11	820	1003	8/11
34"	865	987	8/11	865	1054	8/11
36"	920	1045	8/11	920	1114	8/11
38"	965	1108	8/11	965	1051	8/11
40"	1020	1159	8/11	1020	1111	8/11
42"	1070	1216	8/11	1070	1162	8/11
44"	1120	1273	8/11	1120	1216	8/11
46"	1170	1324	8/11	1170	1270	8/11
48"	1220	1381	8/11	1220	1321	8/11
50"	1270	1432	8/11	1270	1375	8/11
52"	1320	1489	8/11	1320	1425	8/11
54"	1370	1546	8/11	1370	1489	8/11
56"	1430	1603	8/11	1430	1540	8/11
58"	1120	1273	8/11	1475	1590	8/11
60"	1530	1711	8/11	1530	1641	8/11

G-ST-P/S-Profile Gaskets

special dimensions

G-ST-P/S



Nominal Diameter DN	Dimensions in mm		
	d ₁	d ₂	s ₁
40	38	92	3/4
50	50	107	4/5
65	66	127	4/5
80	76	142	4/5
80	81	142	4/5
80	84	133	4/5
100	100	162	4/5
125	125	192	5/6
150	150	218	5/6
150	156	218	6/8
150	144	218	6/8
175	175	235	6/8
200	182	275	6/8
200	200	273	6/8
250	228	328	6/8
250	250	328	6/8
300	275	378	6/8

Nominal Diameter DN	Dimensions in mm		
	d ₁	d ₂	s ₁
300	300	378	6/8
350	285	438	7/10
350	330	438	7/10
350	340	490	7/10
350	340	617	7/10
350	396	444	6/8
400	372	490	7/10
400	324	490	7/10
400	400	490	7/10
500	465	595	7/10
600	586	695	7/10
600	630	680	7/10
700	661	810	8/11
700	690	755	8/11
800	749	915	8/11

G-ST-P/S-Profile Gaskets

Dimensions for flanges of VCI-tanks,
in accordance with code of practice C2.1.1

Nominal Diameter DN	Dimensions in mm		
	d ₁	d ₂	s ₁
500	510	577	7/10
600	610	677	7/10
600	610	717	7/10
700	710	782	8/11
800	810	887	8/11



G-ST-P/K

G-ST-P/K

G-ST-P/K to suit flange joints made of thermoplastics (PVC, PP, PE, PVDF)

Type A

For pressure pipelines made of PVC with solvent cemented flange adaptors and backing flanges, manufactured in accordance with DIN 8063 part 4, and also for pressure pipelines made of PE, PP and PVDF with electrofused flange adaptors and backing flanges manufactured in accordance with DIN 16962 part 12 (PP) and DIN 16963 part 11 (PE), also usable for fixed flanges made of PVC, PP and PVDF. Can also be used for intermediate flange valves. Dimensions according to DIN ISO 2501 PN 10.

Flange DN ¹⁾	Outer Ø of pipe		Dimensions mm		
	(mm)		d ₁	d ₂	s ₁ /s ₂
10	16		16	46	3 / 4
15	20		20	51	3 / 4
20	25		25	61	3 / 4
25	32		32	71	3 / 4
32	40		40	82	3 / 4
40	50		50	92	3 / 4
50	63		63	107	4 / 5
65	75		75	127	4 / 5
80	90		90	142	4 / 5
100	110		110	162	5 / 6
125	125		125	192	5 / 6
125	140		140	192	5 / 6
150	160		160	218	6 / 8
200	200		200	273	6 / 8
200	225		225	273	6 / 8
250	250		250	303	6 / 8
250	250		250	328	6 / 8
250	280		280	328	6 / 8
300	315		315	378	6 / 8
350	355		355	438	7 / 10
400	400		400	489	7 / 10

DIN / ISO (PVDF)

G-ST-P/K-Profile Gaskets

For pressure pipelines made of PVDF with butt-fused flange adaptors and backing flanges. Flange dimensions according to DIN ISO 2501 PN 10.

Flange DN ¹⁾	Outer Ø of pipe			Dimensions in mm		
	PN	(mm)	SDR ²⁾	d ₁	d ₂	s ₁ /s ₂
20	16	25	21	24	61	3 / 4
25	16	32	21	30	71	3 / 4
32	16	40	21	37	82	3 / 4
40	16	50	21	46	92	3 / 4
50	16	63	21	61	107	4 / 5
65	16	75	21	73	127	4 / 5
65	10	75	33	69	127	4 / 5
80	10-16	90	33	84	142	4 / 5
100	16	110	21	104	162	5 / 6
100	10	125	33	123	162	5 / 6
125	10	140	33	137	192	5 / 6
125	16	140	21	127	192	5 / 6
150	10	160	33	156	218	6 / 8
150	16	160	21	146	218	6 / 8
150	10	180	33	177	218	6 / 8
200	10	200	33	196	273	6 / 8
200	16	200	21	181	273	6 / 8
200	10	225	33	220	273	6 / 8
200	16	225	21	203	273	6 / 8
250	10	280	33	274	328	6 / 8

