Product Catalogue Gaskets

High-performance gaskets, standard gaskets and service from a single source – tight, safe and low-emission.

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revoseal. awesome gaskets.

Exceptionally productive plants need exceptionally high-performance gaskets

The productivity of a plant determines its competitiveness – especially in the international process industry. In chemicals, petrochemicals, gas production and related industries, the small and almost invisible elements of a plant or column play an enormous role: gaskets. Their technology, quality and durability decide between productivity and shutdown. revoseal is the process industry's partner for exceptionally high-performance gaskets and has the right products, patents and technical know-how.

At revoseal, innovative strength, quality and technology are combined with international service, professional key accounting and technical expertise for the industry-specific requirements of chemicals and petrochemicals. revoseal invests in research and development at its site near Cologne, creating a lasting basis for the continuous improvement of its products and the expansion of its portfolio in the near future.

WHAT WE STAND FOR

- **Lower emissions**
  Emission reduction beyond the current state of the art
- **High availability**
  Plant availability and quality at the highest technical level
- **Safety**
  Guaranteed safety through technological leadership
- **Close to the customer**
  Detecting and solving problems early – by working directly on site
- **Efficient projects**
  Optimisation of resource-intensive projects
- **One partner for the entire bolted joint**
  Product, calculation, installation and training

revoseal sealing concept

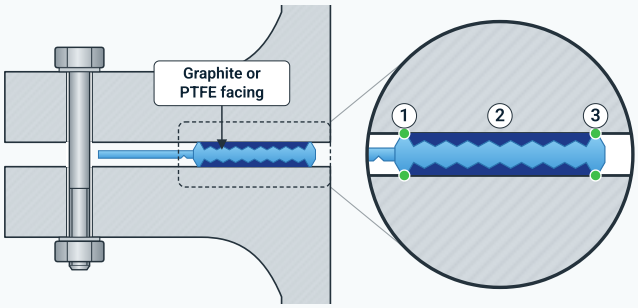
Primary metal-to-metal sealing – internationally patented

The high functionality of the internationally patented revoseal flange gaskets is based on primary metal-to-metal sealing. In combination with a secondary sealing soft-material facing (graphite or PTFE), this delivers maximum tightness and outstanding performance. Where conventional flange gaskets reach their limits, revoseal gaskets ensure higher plant availability and safety. Their long service life also reduces maintenance costs.

CROSS-SECTIONS OF OUR PATENTED GASKET TYPES

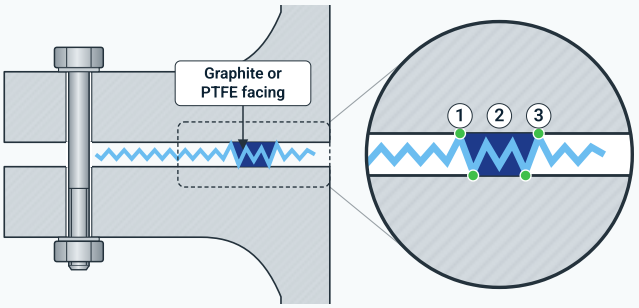
JP-2

Triple seal



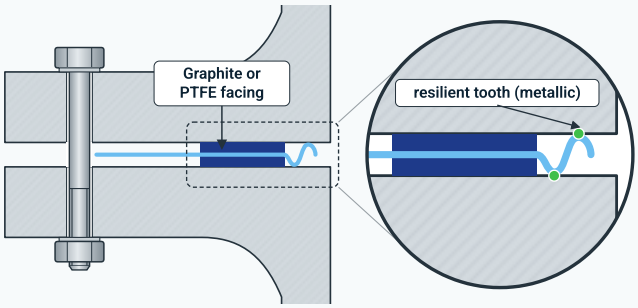
Revolution

Triple seal



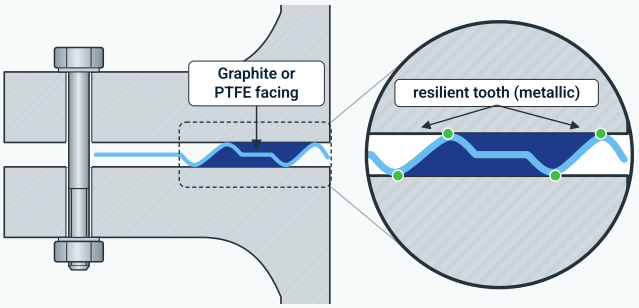
Eco+

Metallic flat-profile gasket with facings



Visio

Embossed metal gasket with facings



metal-to-metal seal

revoseal JG/JP

Encapsulated flat-profile gasket

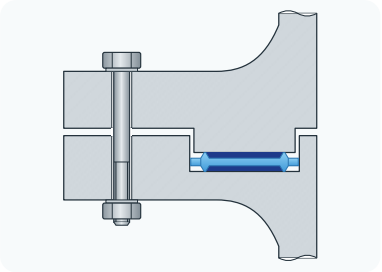
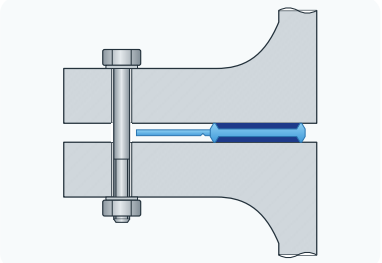
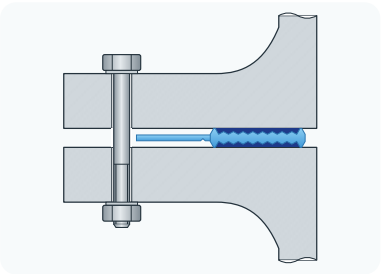
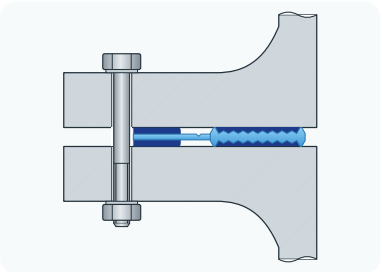
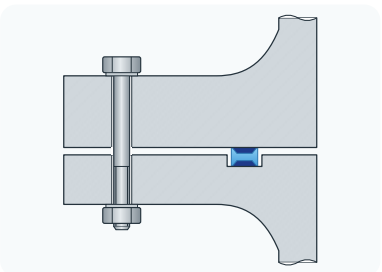
PRODUCT DESCRIPTION

The internationally patented geometry of the raised outer and inner teeth fully encapsulates the graphite or PTFE facing. The tooth geometry is designed to achieve ideal compression of the graphite and a dual metal-to-metal seal – even with low-strength bolts. The revoseal JG or JP (encapsulated flat-profile gasket) combines the benefits of metallic and soft-material gaskets in an ideal way.

HIGHLIGHTS

- For apparatus flanges, the effective gasket width can be adapted for the qualified calculation-based proof of technical tightness in accordance with TA Luft, **VDI 2290** to **DIN EN 1591-1**.
- Temperature: −270 °C to +1,000 °C (depending on the carrier material)
- Pressure: from vacuum to 400 bar (Class 2500)
- Lowest leakage rates of all gaskets available on the market
- Standard material: 1.4571 (other materials on request)
- Total thickness 4.2 mm (other thicknesses on request)
- JG/JP profiles integrate the tongue-and-groove principle into the gasket
- Fire-safe certified to **API 607** (also for PTFE) and blow-out resistant to **VDI 2200**

TYPES

TYPE	CROSS-SECTION	DESCRIPTION
JG/JP 1		Encapsulated flat-profile gasket for tongue-and-groove and male-and-female flanges to **DIN EN 1514-1 TG** and **SR**.
JG 2		Encapsulated flat-profile gasket with centering ring and break-off groove for flanges with plain sealing face, types A and B, to **DIN EN 1092-1** and for flanges to **ANSI B 16.5 / B 16.47-A** and **B 16.47-B**.
JP 2		Encapsulated flat-profile gasket with centering ring and break-off groove for flanges with plain sealing face, types A and B, to **DIN EN 1092-1** and for flanges to **ANSI B 16.5 / B 16.47-A** and **B 16.47-B**. Recommended for pressures above 200 bar and temperatures above 500 °C.
JP Top		The JP Top offers the same properties as the JP 2, but additionally features a secondary seal made of graphite or PTFE. This design is particularly suitable for cold-running lines on which a corrosive medium forms from the surrounding atmosphere.
JP X		The JP X is designed for very narrow and thin sealing faces. Thanks to its encapsulated concept, it provides a metal-to-metal seal and can be used even with very small web widths – wherever other gaskets find no room. Typical applications are cover gaskets, flaps and other components with narrow sealing faces.
Vario		JG and JP gaskets are also available with our Vario centering system.

Dimension table JG/JP

Encapsulated flat-profile gasket with centering ring and break-off groove for flanges with plain sealing face type A and flanges with sealing face type B to DIN EN 1092-1

DN	d1	d2			d3									
		PN 10–40	PN 64–160	PN 250–400	PN 10	PN 16	PN 25	PN 40	PN 64	PN 100	PN 160	PN 250	PN 320	PN 400
10	22	36	36	36	46	46	46	46	56	56	56	67	67	67
15	26	42	42	42	51	51	51	51	61	61	61	72	72	78
20	31	47	47	47	61	61	61	61	72	72	–	–	–	–
25	36	52	52	52	71	71	71	71	82	82	82	83	92	104
32	46	62	62	66	82	82	82	82	88	88	–	–	–	–
40	53	69	69	73	92	92	92	92	103	103	103	109	119	135
50	65	81	81	87	107	107	107	107	113	119	119	124	134	150
65	81	100	100	103	127	127	127	127	137	143	143	153	170	192
80	95	115	115	121	142	142	142	142	148	154	154	170	190	207
100	118	138	138	146	162	162	168	168	174	180	180	202	229	256
125	142	162	162	178	192	192	194	194	210	217	217	242	274	301
150	170	190	190	212	217	217	224	224	247	257	257	284	311	348
175	195	215	215	245	247	247	254	265	277	287	284	316	358	402
200	220	240	248	280	272	272	284	290	309	324	324	358	398	442
250	270	290	300	340	327	328	340	352	364	391	388	442	488	–
300	320	340	356	400	377	383	400	417	424	458	458	536	–	–
350	375	395	415	–	437	443	457	474	486	512	–	–	–	–
400	426	450	474	–	489	495	514	546	543	572	–	–	–	–
450	480	506	–	–	539	555	564	571	–	–	–	–	–	–
500	530	560	588	–	594	617	624	628	657	704	–	–	–	–
600	630	664	700	–	695	734	731	747	764	813	–	–	–	–
700	730	770	812	–	810	804	833	852	879	950	–	–	–	–
800	830	876	886	–	917	911	942	974	988	–	–	–	–	–
900	930	982	994	–	1017	1011	1042	1084	1108	–	–	–	–	–
1000	1040	1098	1110	–	1124	1128	1154	1194	1220	–	–	–	–	–
1200	1250	1320	1334	–	1341	1342	1364	1398	1452	–	–	–	–	–
1400	1440	1522	–	–	1548	1542	1578	1618	–	–	–	–	–	–
1600	1650	1742	–	–	1772	1764	1798	1830	–	–	–	–	–	–
1800	1850	1914	–	–	1972	1964	2000	–	–	–	–	–	–	–
2000	2050	2120	–	–	2182	2186	2230	–	–	–	–	–	–	–
2200	2250	2328	–	–	2384	2378	–	–	–	–	–	–	–	–
2400	2460	2512	–	–	2594	–	–	–	–	–	–	–	–	–

DN / inch = nominal size · The graphite width required for a gasket calculation is available for download on our website – revoseal.com · Total thickness 4.2 ± 0.1 mm · Other thicknesses available · Also available in other DIN and ANSI dimensions · Design and calculation to revoseal company standard

Dimension table JG/JP

Encapsulated flat-profile gasket JP-2 with centering ring and break-off groove for flanges to ANSI B16.5

[inch]	d1 [inch]	d2			d3					
		150–300 lbs	400–600 lbs	900–1500 lbs	150 lbs	300 lbs	400 lbs	600 lbs	900 lbs	1500 lbs
1/2	23	33	33	33	44.4	50.8	50.8	50.8	60.3	60.3
3/4	29	40	40	40	53.9	63.5	63.5	63.5	66.7	66.7
1	37	47	47	47	63.5	69.8	69.8	69.8	76.2	76.2
1 1/4	44	60	60	60	73.0	79.4	79.4	79.4	85.7	85.7
1 1/2	52	70	70	70	82.5	92.1	92.1	92.1	95.2	95.2
2	70	89	89	89	101.8	108.0	108.0	108.0	139.7	139.7
2 1/2	83	102	102	102	120.6	127.0	127.0	127.0	161.9	161.9
3	94	124	124	124	133.4	146.1	146.1	146.1	165.1	171.5
3 1/2	111	136	136	136	158.8	161.9	158.7	158.7	–	–
4	124	149	149	149	171.5	177.8	174.6	190.5	203.2	206.4
5	151	176	176	176	193.7	212.7	209.5	238.1	244.5	250.8
6	179	209	209	209	219.1	247.7	244.5	263.5	285.8	279.4
8	229	260	260	260	276.2	304.8	301.6	317.5	355.6	349.3
10	283	313	313	313	336.5	358.8	355.6	396.9	431.8	431.8
12	340	370	370	378	406.4	419.1	415.9	454.0	495.3	517.5
14	372	402	402	409	447.7	482.6	479.4	488.9	517.5	574.7
16	422	457	457	467	511.2	536.6	533.4	561.9	571.5	638.1
18	479	514	514	530	546.1	593.7	590.5	609.6	635.0	701.7
20	530	570	570	581	603.2	650.9	644.5	679.5	695.3	752.4
22	581	621	621	632	657.2	701.7	698.5	730.3	–	–
24	632	672	672	682	714.4	771.5	765.2	787.4	835.0	898.5

DN / inch = nominal size · The graphite width required for a gasket calculation is available for download on our website – revoseal.com · Total thickness 4.2 ± 0.1 mm · Other thicknesses available · Also available in other DIN and ANSI dimensions · Design and calculation to revoseal company standard

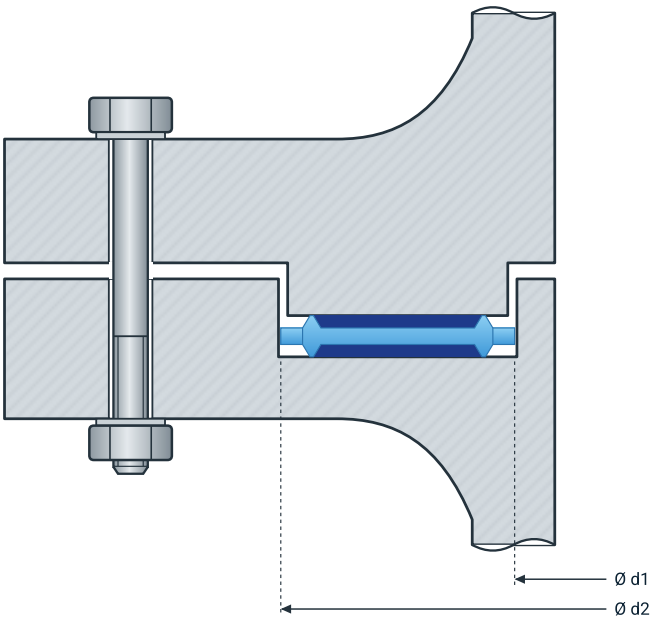
Dimension table JG 1

Encapsulated flat-profile gasket for tongue-and-groove flanges to DIN 2512 and EN 1514-1 type TG

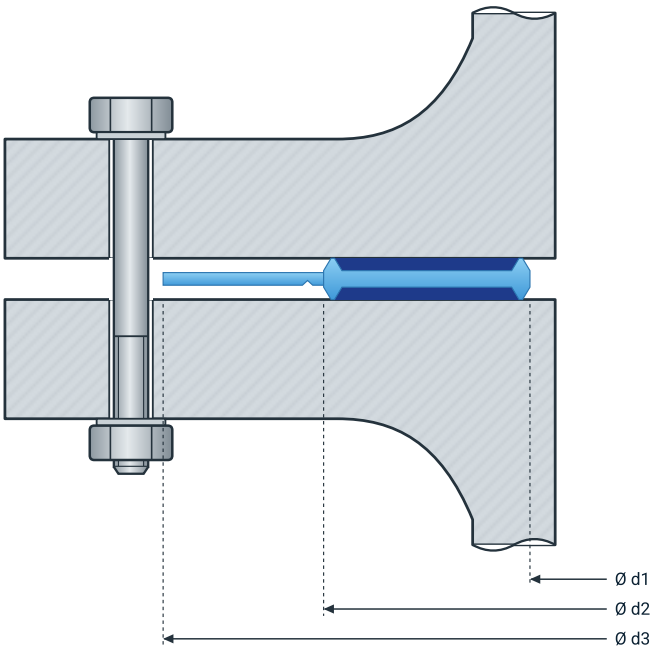
DN	d1	d2	Thickness
10	24	34	2
15	29	39	2
20	36	50	2
25	43	57	2
32	51	65	2
40	61	75	2
50	73	87	2
65	95	109	2
80	106	120	2
100	129	149	2.5
125	155	175	2.5
150	183	203	2.5
200	239	259	2.5
250	292	312	2.5
300	343	363	2.5
350	395	421	3
400	447	473	3
500	549	575	3
600	649	675	3
700	751	777	3
800	856	882	3
900	961	987	3
1000	1061	1093	4

DN / inch = nominal size · The graphite width required for a gasket calculation is available for download on our website – revoseal.com · Thickness: see table · Also available in other DIN and ANSI dimensions · Design and calculation to revoseal company standard

JG/JP 1



JG 2



revoseal System Vario

Universal centering system



PRODUCT DESCRIPTION

Centering rings of gaskets with the same nominal size but different pressure classes differ only in their outside diameter. Installing non-matching dimensions can lead to incidents and gasket failure. The Vario centering system prevents incorrect use, reduces the number of gasket types that have to be kept in stock and increases plant availability.

The solution is revoseal's variable Vario centering system.

The shape of the centering segments compensates for different outside diameters. This eliminates the risk of mix-ups and off-centre installation, as well as time-consuming positioning with reduced-shank bolts.

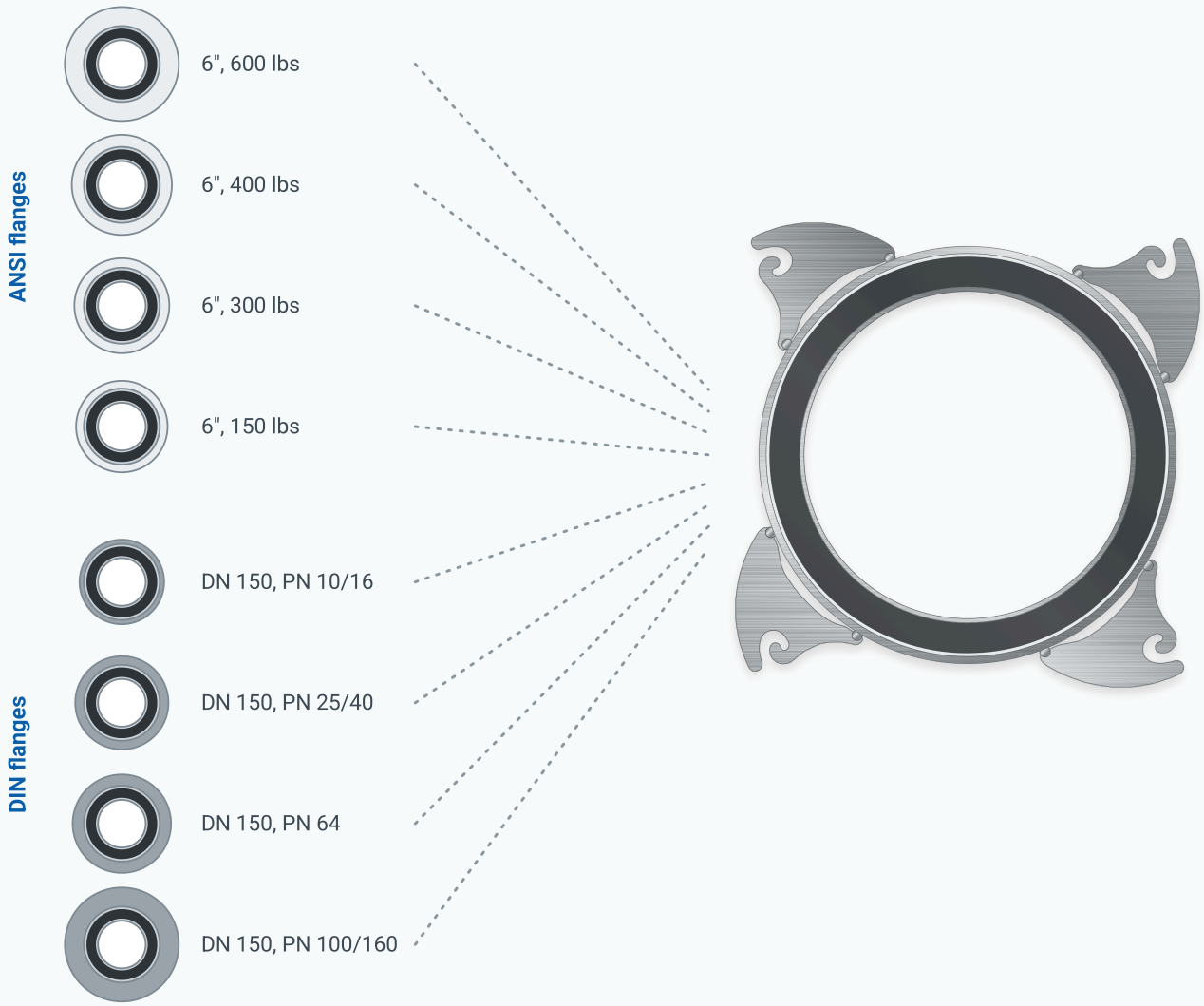
The revoseal Vario centering system is available for the encapsulated profile gaskets JG and JP developed by revoseal.

HIGHLIGHTS

- Significant reduction in the number of variants
- Exact centering of the gasket
- Considerable cost savings in procurement and storage
- No risk of mix-ups
- Easier installation when using reduced-shank bolts

How does the Vario system work?

An example illustrates this: a customer who only has DIN flanges up to PN 160 can replace four gaskets with one gasket featuring the Vario centering system. A customer who only has ANSI flanges up to 600 lbs can likewise replace four gaskets with the Vario centering system. A customer operating both DIN and ANSI flanges in the pressure classes mentioned can replace eight gaskets covering two different standards!



Pressure class table Vario centering system

for flanges to DIN 2627–2629 series 1, DIN 2632–2638 series 1, DIN EN 1092-1, ANSI B 16.5

[DN]	[inch]	PN	lbs	d1	d2
10	1/2	10-160	150-1500	16.7	33.3
15		10-160		22.7	39.3
15		250-400		18.7	34.3
20	3/4	10-40	150-1500	22.7	39.3
25	1	10-250	150-1500	32.7	49.3
25		320-400		36.7	52.3
32	1 1/4	10-40	150-1500	44.7	61.3
40	1 1/2	10-160	150-1500	51.7	68.3
40		250-400		51.7	68.3
50	2	10-160	150-600	63.7	80.3
50	2	250-400	900-1500	63.7	80.3
65	2 1/2	10-250	150-600	79.7	101.3
65		320-400		79.7	101.3
80	3	10-160	150-900	93.7	114.3
80	3	250-400	1500	93.7	120.3
100	4	10-160	150-600	116.7	137.3
100	4	250-400	900-1500	116.7	144.3
125	5	10-160	150-400	148.7	169.3
125	5	250	600-1500	140.7	161.3
150	6	10-160	150-600	164.7	181.3
150	6	250	900-1500	160.7	203.3
150		320-400		160.7	203.3
175		16-160		188.7	209.3

[DN]	[inch]	PN	lbs	d1	d2
200	8	10-160	150-600	220.7	241.3
200	8	250	900-1500	208.7	265.3
200		320		208.7	265.3
200		400		208.7	265.3
250	10	10-40	150-400	266.7	287.3
250	10	64-160	600	262.7	293.3
250	10	250	900-1500	262.7	332.3
300	12	10-40	150-300	318.7	339.3
300	12	64-160	400-600	318.7	355.3
300	12	250	900-1500	320.7	400.3
350	14	10-40	150-300	373.7	394.3
350	14	64-100	400-600	362.7	403.3
	14		1500	362.7	403.3
400	16	10-40	150-300	434.7	459.3
400	16	64	400-900	405.7	455.3
	16		1500	405.7	455.3
	18		150-600	497.7	513.3
500	20	10-40	150-400	528.7	559.3
	20		600-900	528.7	586.3
600	24	10-40	150	628.7	664.3
	24		300-600	628.7	664.3
700		10-40		728.7	770.3
800		10-40		828.7	876.3
900		10-40		928.7	982.3
1000		10-40		1038.7	1098.3

DN / inch = nominal size · d1 = inside diameter · d2 = outside diameter of the graphite facing · Total thickness 3.8 ± 0.1 mm · Other thicknesses available · Also available in other DIN and ANSI dimensions · Design and calculation to revoseal company standard

revoseal Revolution

Embossed flat-profile gasket

PRODUCT DESCRIPTION

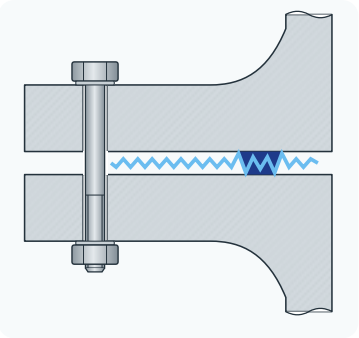
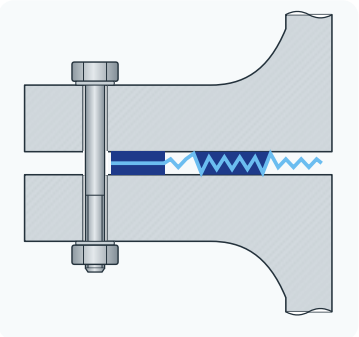
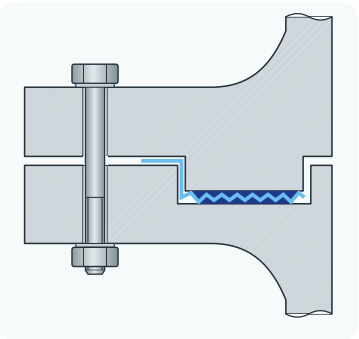
The Revolution gasket is an embossed flat-profile gasket made from a flexible stainless steel carrier with graphite or PTFE encapsulated on both sides.

Its revolutionary design and the flexibility of the embossed tooth height provide a dual metal-to-metal seal and full encapsulation of the graphite or PTFE. With its wide range of applications, the Revolution is the alternative to all conventional flat gasket types.

HIGHLIGHTS

- Temperature: −270 °C to +500 °C
- Pressure: from vacuum to 64 bar (400 lbs)
- Exceeds the requirements of TA Luft and **VDI 2290** in conjunction with leakage verification to **EN 1591-1** (even with lower-grade bolts)
- Standard material: 1.4571 (optional: 1.4404)
- Available for DIN and ANSI flanges up to DN 400 / 16"
- Available with graphite or PTFE facing
- Total thickness 1.6 mm (± 0.1 mm)
- Fire-safe certified to **API 607** (also for PTFE), TA Luft (incl. blow-out resistance to VDI 2200), FDA compliant (PTFE version)

TYPES

TYPE	CROSS-SECTION	DESCRIPTION
Revolution		The Revolution gasket is an embossed flat-profile gasket made from a flexible stainless steel carrier with graphite or PTFE encapsulated on both sides.
Revolution Top		The Revolution Top offers the same properties as the Revolution, but additionally features a secondary seal made of lower-density graphite or PTFE. The secondary seal reliably prevents corrosion of the flange sealing face, as occurs, for example, on flanges made of structural steels.
Revolution Tongue & Groove		The Revolution Tongue & Groove offers the same properties as the Revolution. In addition, this version is fitted with a stainless steel assembly tab for effortless installation and removal.

Dimension table Revolution DIN

for flanges to DIN 2632–2636 series 1 and DIN EN 1092-1

[DN]	d1	d2	d3				
		PN 10–64	PN 10	PN 16	PN 25	PN 40	PN 64
10	22	36	46	46	46	46	56
15	22	39.5	50	50	50	50	61
20	28	46.0	61	61	61	61	–
25	35	53.5	71	71	71	71	82
32	43	62.0	82	82	82	82	–
40	50	69.0	92	92	92	92	103
50	61	80.0	107	107	107	107	113
65	77	97.5	127	127	127	127	137
80	92	115.0	142	142	142	142	148
100	115	139.0	162	162	168	168	174
125	142	169.0	192	192	194	194	210
150	168	194.0	218	218	224	224	247
200	224	251.0	272	272	284	290	309
250	270	298.0	327	328	340	352	364
300	320	348.0	377	383	400	417	424
350	375	405.0	437	443	457	474	486
400	426	459.0	489	495	514	545	543

DN / inch = nominal size · d1 = inside diameter · d2 = outside diameter of the graphite facing · d3 = outside diameter of the gasket · The graphite width required for a gasket calculation is available for download on our website – revoseal.com · Total thickness 1.6 ± 0.1 mm · Design and calculation to revoseal company standard

Dimension table Revolution ANSI

for flanges to ANSI B 16.5

[inch]	d1	d2	d3		
			150 lbs	300 lbs	400 lbs
1/2	16	33.5	44.4	50.8	50.8
3/4	22	39.5	54.0	63.5	63.5
1	28	46.0	63.5	68.0	68.0
1 1/4	35	53.5	73.2	79.5	79.5
1 1/2	50	69.0	82.9	92.0	92.0
2	61	80.0	101.6	107.0	107.0
2 1/2	77	97.5	120.6	127.0	127.0
3	92	115.0	133.3	145.7	145.7
4	124	148.0	171.4	177.8	174.8
5	151	178.0	193.5	212.6	209.6
6	178	205.0	218.9	247.3	244.3
8	224	251.0	276.1	304.8	301.8
10	270	298.0	336.6	359.0	355.6
12	320	348.0	406.4	419.1	415.8
14	375	405.0	447.9	482.6	479.3
16	426	459.0	511.4	536.4	533.4

DN / inch = nominal size · d1 = inside diameter · d2 = outside diameter of the graphite facing · d3 = outside diameter of the gasket · The graphite width required for a gasket calculation is available for download on our website – revoseal.com · Total thickness 1.6 ± 0.1 mm · Design and calculation to revoseal company standard

Dimension table Revolution Tongue & Groove

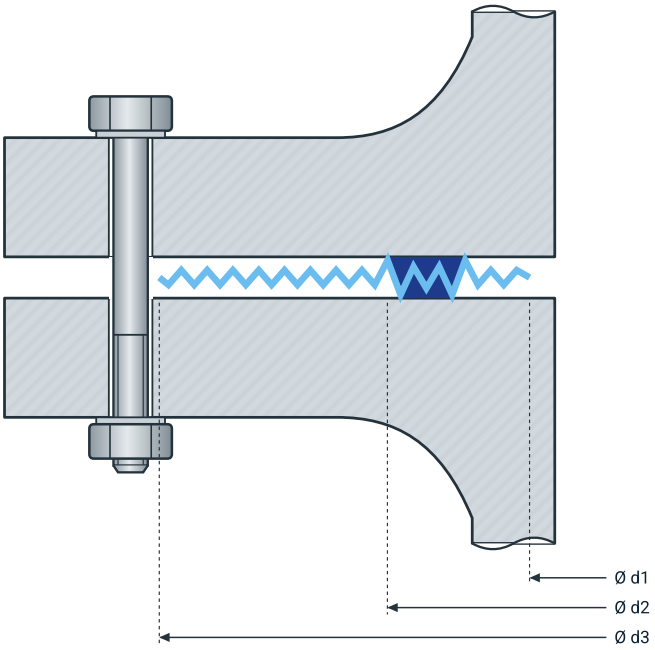
for flanges to DIN 2512 and EN 1514-1 TG

[DN]	d1	d2
10	24	34
15	29	39
20	36	50
25	43	57
32	51	65
40	61	75
50	73	87
65	95	109
80	106	120
100	129	149
125	155	175
150	183	203
200	239	259
250	292	312
300	343	363
350	395	421
400	447	473

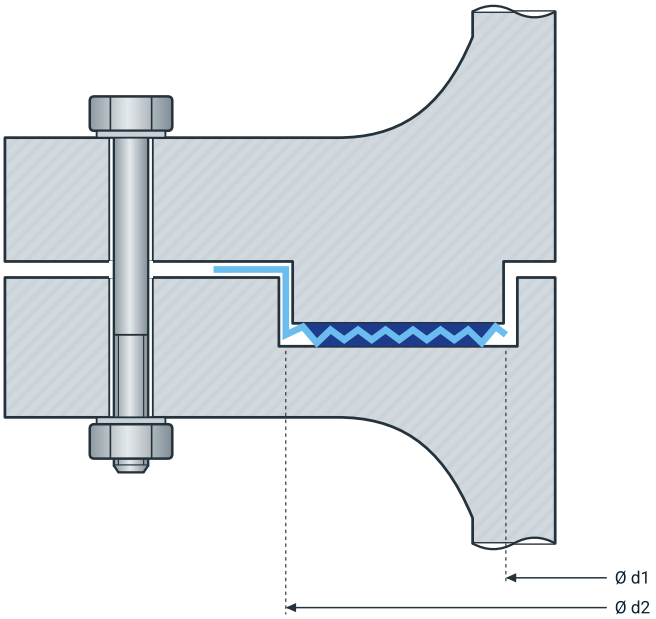
DN / inch = nominal size · d1 = inside diameter · d2 = outside diameter · The graphite width required for a gasket calculation is available for download on our website – revoseal.com · Total thickness 1.6 ± 0.1 mm · Design and calculation to revoseal company standard

Dimensions

Revolution



Revolution Tongue & Groove



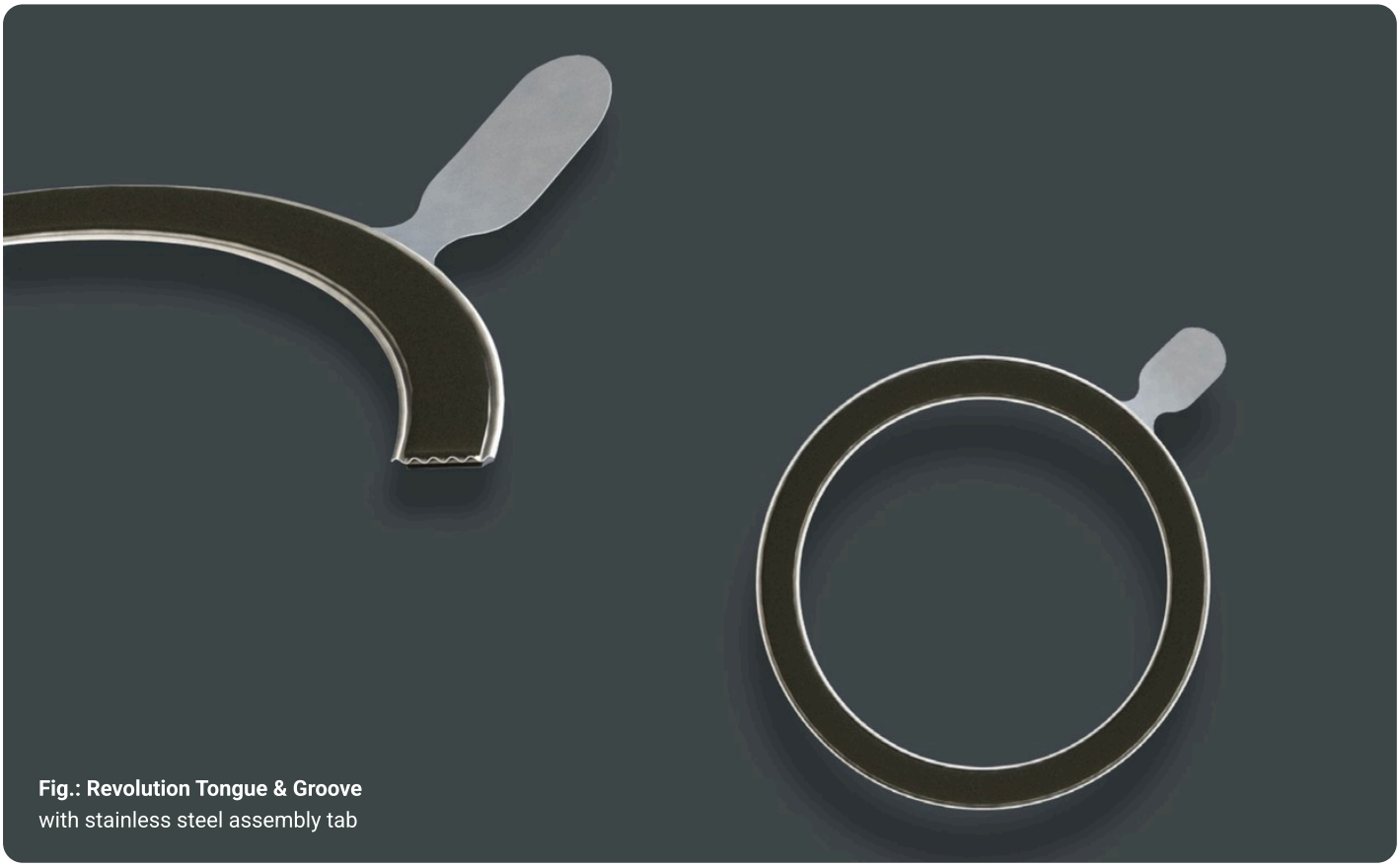


Fig.: Revolution Tongue & Groove
with stainless steel assembly tab

revoseal Eco+

Metallic flat-profile gasket with facings



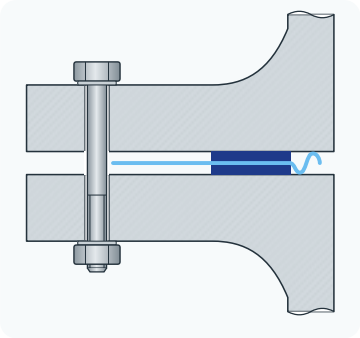
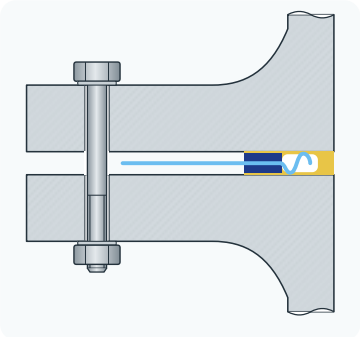
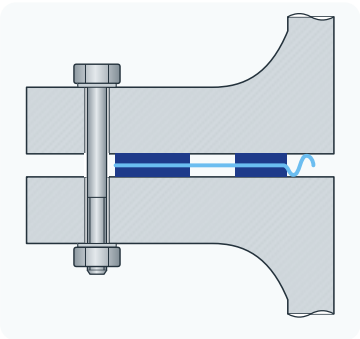
PRODUCT DESCRIPTION

The Eco+ gasket consists of a solid stainless steel carrier faced on both sides with a narrow graphite or PTFE layer. A resilient “tooth” embossed on the media side creates a metal-to-metal seal against both flange faces. The resilient “tooth” absorbs alternating loads caused by pressure and temperature fluctuations without plastic deformation.

HIGHLIGHTS

- Temperature: −270 °C to +500 °C
- Pressure range: from vacuum to 160 bar (900 lbs)
- Exceeds the requirements of TA Luft and **VDI 2290** in conjunction with leakage verification to **EN 1591-1** (even with lower-grade bolts)
- Standard material 1.4571 (other materials on request)
- Total thickness 1.6 mm (± 0.1 mm)
- Fire-safe certified to **API 607**, TA Luft (incl. blow-out resistance to **VDI 2200**), FDA compliant (PTFE version)

TYPES

TYPE	CROSS-SECTION	DESCRIPTION
Eco+		In existing plants, the Eco+ can be used as a higher-grade replacement for all types of flat gaskets up to 2 mm installation height. Thanks to the narrow soft-material facings, high gasket stresses are achieved even with low bolt forces. In new designs, the Eco+ is a cost-effective and technically superior alternative to kammprofile and spiral wound gaskets. Its resilient design makes bolt retightening unnecessary, even under severe pressure and temperature fluctuations.
Eco PU		The Eco PU features a PTFE U-envelope with a diffusion barrier, making it ideally suited for aggressive media in plastic or enamelled flanges. High gasket stresses are achieved even with low bolt forces.
Eco Top		The Eco Top offers the same properties as the Eco+, but additionally features a secondary seal made of lower-density graphite or PTFE. The secondary seal reliably prevents corrosion of the flange sealing face, as occurs, for example, on flanges made of structural steels.

Dimension table Eco+

for flanges to DIN 2632–2638 series 1 and DIN EN 1092-1

DN	d1				d2							d3						
	PN 10–40	PN 64	PN 100	PN 160	PN 10	PN 16	PN 25	PN 40	PN 64	PN 100	PN 160	PN 10	PN 16	PN 25	PN 40	PN 64	PN 100	PN 160
15	22	22	22	22	40	40	40	40	40	40	40	51	51	51	51	61	61	61
20	32	–	–	–	50	50	50	50	–	–	–	61	61	61	61	–	–	–
25	40	40	40	40	58	58	58	58	58	58	58	71	71	71	71	82	82	82
32	49	–	–	–	69	69	69	69	–	–	–	82	82	82	82	–	–	–
40	57	57	57	57	77	77	77	77	77	77	77	92	92	92	92	103	103	103
50	68	68	68	68	88	88	88	88	88	88	88	107	107	107	107	113	119	119
65	85	85	85	85	107	107	107	107	107	107	107	127	127	127	127	138	144	144
80	102	102	102	102	124	124	124	124	124	124	124	142	142	142	142	148	154	154
100	123	123	123	123	151	151	151	151	155	155	155	162	162	168	168	174	180	180
125	148	148	148	148	176	176	176	176	180	180	180	192	192	194	194	210	217	217
150	176	176	176	176	204	204	204	204	214	214	214	218	218	224	224	247	257	257
200	224	224	224	224	252	252	252	256	262	268	268	273	273	284	290	309	324	324
250	273	273	273	273	305	305	305	311	311	321	321	328	329	340	352	364	391	388
300	330	330	330	330	362	362	368	368	378	378	378	378	384	400	417	424	458	458
350	370	370	370	–	402	402	402	402	408	412	–	438	443	457	474	486	512	–
400	420	420	420	–	452	452	452	458	468	468	–	489	495	514	546	543	572	–
450	480	–	–	–	518	518	528	528	–	–	–	539	555	564	571	–	–	–
500	530	530	530	–	568	568	568	578	578	584	–	594	617	624	628	657	704	–
600	630	630	–	–	668	668	668	678	688	–	–	695	734	731	747	764	–	–
700	730	730	–	–	768	768	778	778	788	–	–	810	804	833	852	879	–	–
800	830	830	–	–	878	878	888	898	898	–	–	917	911	942	974	988	–	–
900	930	930	–	–	978	978	988	998	998	–	–	1017	1011	1042	1084	1108	–	–
1000	1040	1040	–	–	1098	1098	1108	1118	1118	–	–	1124	1128	1154	1194	1220	–	–

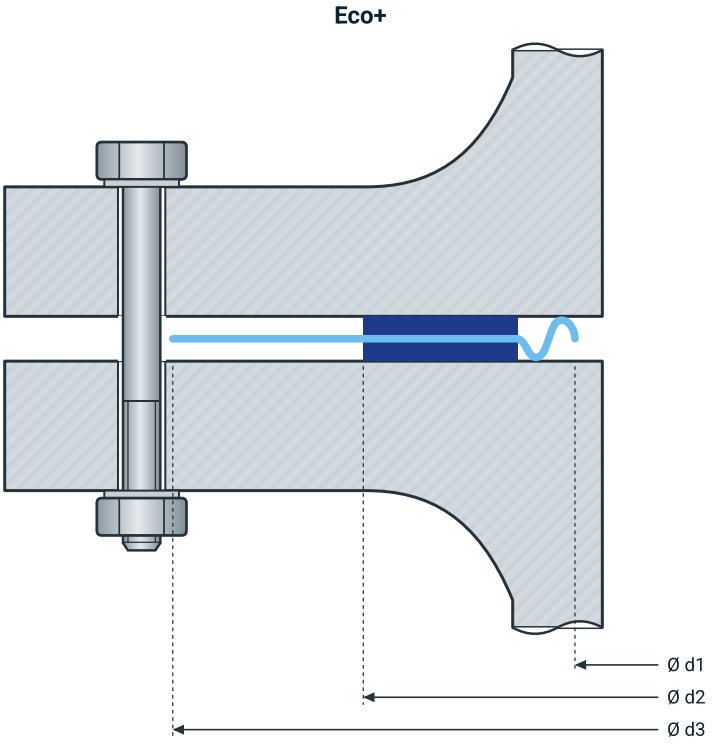
DN / inch = nominal size · d1 = inside diameter · d2 = outside diameter of the graphite facing · d3 = outside diameter of the gasket · Inside diameter of facing = d1 + 8 mm · The graphite width required for a gasket calculation is available for download on our website – revoseal.com · Total thickness 1.6 ± 0.1 mm · Also available in other DIN and ANSI dimensions · Design and calculation to revoseal company standard

Dimension table Eco+

for flanges to ANSI B 16.5

[inch]	d1		d2					d3				
	150–400 lbs	600–900 lbs	150 lbs	300 lbs	400 lbs	600 lbs	900 lbs	150 lbs	300 lbs	400 lbs	600 lbs	900 lbs
1/2	18	18	34	34	34	34	34	44.8	50.8	50.8	50.8	60.2
3/4	22	22	40	40	40	40	40	54.2	63.5	63.5	63.5	66.5
1	32	32	50	50	50	50	50	63.5	69.8	69.8	69.8	76.2
1 1/4	40	40	58	58	58	58	58	73.2	79.5	79.5	79.5	85.9
1 1/2	49	49	69	69	69	69	69	82.9	91.9	91.9	91.9	95.5
2	57	57	77	77	77	77	77	101.6	107.9	107.9	107.9	139.7
2 1/2	77	77	97	97	97	97	99	120.6	127.0	127.0	127.0	162.1
3	92	92	114	114	114	114	116	133.3	145.7	145.7	145.7	165.1
3 1/2	115	115	139	139	139	139	139	158.7	161.8	158.8	158.8	–
4	123	123	151	151	155	155	155	171.4	177.8	174.8	190.5	203.1
5	148	148	176	176	176	176	176	193.5	212.6	209.6	238.3	244.3
6	176	176	204	204	204	204	204	218.9	247.3	244.3	263.7	285.7
8	224	224	256	256	262	262	262	276.1	304.8	301.8	317.5	355.6
10	273	273	305	311	321	321	331	336.6	359.0	355.6	396.7	431.8
12	330	330	368	368	368	378	378	406.4	419.1	415.8	453.9	495.3
14	370	370	402	402	408	408	412	447.9	482.6	479.3	489.0	517.7
16	420	420	452	458	458	468	468	511.4	536.4	533.4	562.2	571.5
18	480	480	518	518	528	528	528	546.1	593.6	590.6	609.6	635.0
20	530	530	568	578	578	584	584	603.2	650.7	644.7	679.4	695.5
24	630	630	668	678	688	688	688	714.2	771.7	765.0	787.4	835.2

DN / inch = nominal size · d1 = inside diameter · d2 = outside diameter of the graphite facing · d3 = outside diameter of the gasket · Inside diameter of facing = d1 + 8 mm · Total thickness 1.6 ± 0.1 mm · Also available in other DIN and ANSI dimensions · Design and calculation to revoseal company standard



revoseal Visio

Embossed metal gasket

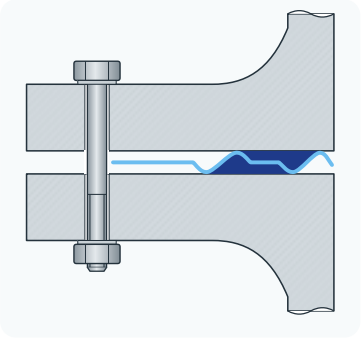
PRODUCT DESCRIPTION

The Visio consists of a solid stainless steel carrier with embossed metallic inner and outer teeth and graphite or PTFE facing on both sides. It is also available for tongue-and-groove and male-and-female flanges as well as for apparatus flanges with pass-partition bars. Its resilient design makes retightening the flanges unnecessary, even under severe pressure and temperature fluctuations.

HIGHLIGHTS

- Temperature: −270 °C to +500 °C
- Pressure: from vacuum to 160 bar (900 lbs)
- Exceeds the requirements of TA Luft and **VDI 2290** in conjunction with leakage verification to **EN 1591-1** (even with lower-grade bolts)
- Standard material 1.4571 (other materials on request)
- Total thickness 1.6 mm (± 0.1 mm)
- Fire-safe certified to **API 607**, TA Luft (incl. blow-out resistance to **VDI 2200**), FDA compliant (PTFE version)

TYPES

TYPE	CROSS-SECTION	DESCRIPTION
Visio		The Visio consists of a solid stainless steel carrier with embossed metallic inner and outer teeth and graphite or PTFE facing on both sides. It is also available for tongue-and-groove and male-and-female flanges as well as for apparatus flanges with pass-partition bars. Its resilient design makes retightening the flanges unnecessary, even under severe pressure and temperature fluctuations.

Dimension table Visio

for flanges to DIN 2632–2638 series 1 and DIN EN 1092-1

[DN]	d1				d2							d3						
	PN 10–40	PN 64	PN 100	PN 160	PN 10	PN 16	PN 25	PN 40	PN 64	PN 100	PN 160	PN 10	PN 16	PN 25	PN 40	PN 64	PN 100	PN 160
15	22	22	22	22	34.5	34.5	34.5	34.5	34.5	34.5	34.5	51	51	51	51	61	61	61
20	29	–	–	–	42.5	42.5	42.5	42.5	–	–	–	61	61	61	61	–	–	–
25	36	36	36	36	53.5	53.5	53.5	53.5	53.5	53.5	53.5	71	71	71	71	82	82	82
32	45	–	–	–	60.5	60.5	60.5	60.5	–	–	–	82	82	82	82	–	–	–
40	53	53	53	53	72.5	72.5	72.5	72.5	72.5	72.5	72.5	92	92	92	92	103	103	103
50	66	66	66	66	85.5	85.5	85.5	85.5	85.5	85.5	85.5	107	107	107	107	113	119	119
65	81	81	81	81	102.5	102.5	102.5	102.5	102.5	102.5	102.5	127	127	127	127	138	144	144
80	92	92	92	92	113.5	113.5	113.5	113.5	113.5	113.5	113.5	142	142	142	142	148	154	154
100	117	117	117	117	140.5	140.5	140.5	140.5	140.5	140.5	140.5	162	162	168	168	174	180	180
125	142	142	142	142	167.5	167.5	167.5	167.5	167.5	167.5	167.5	192	192	194	194	210	217	217
150	170	170	170	170	197.5	197.5	197.5	197.5	197.5	197.5	197.5	218	218	224	224	247	257	257
200	222	222	222	222	251.5	251.5	251.5	251.5	251.5	251.5	251.5	273	273	284	290	309	324	324
250	278	278	278	278	310	310	318	318	322	332	332	328	329	340	352	364	391	388
300	330	330	330	330	358	358	358	364	368	368	378	378	384	400	417	424	458	458
350	381	381	381	–	409	409	409	409	419	419	–	438	443	457	474	486	512	–
400	432	432	432	–	460	460	460	470	470	470	–	489	495	514	546	543	572	–
450	486	–	–	–	518	518	528	528	–	–	–	539	555	564	571	–	–	–
500	530	530	530	–	568	568	568	578	578	578	–	594	617	624	628	657	704	–
600	630	630	–	–	668	668	668	678	678	–	–	695	734	731	747	764	–	–
700	730	730	–	–	768	768	778	778	778	–	–	810	804	833	852	879	–	–
800	830	830	–	–	878	878	888	888	888	–	–	917	911	942	974	988	–	–
900	930	930	–	–	978	978	988	988	988	–	–	1017	1011	1042	1084	1108	–	–
1000	1040	1040	–	–	1098	1098	1108	1108	1108	–	–	1124	1128	1154	1194	1220	–	–

DN / inch = nominal size · d1 = inside diameter · d2 = outside diameter of the graphite facing · d3 = outside diameter of the gasket · The graphite width required for a gasket calculation is available for download on our website – revoseal.com · Total thickness 1.6 ± 0.1 mm · Also available in other DIN and ANSI dimensions · Design and calculation to revoseal company standard

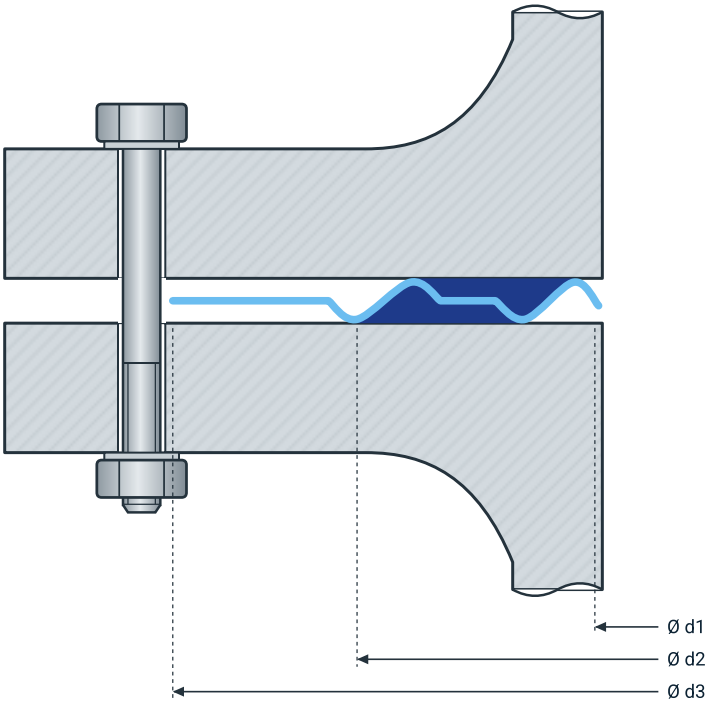
Dimension table Visio

for flanges to ANSI B 16.5

[inch]	d1		d2					d3				
	150–400 lbs	600–900 lbs	150 lbs	300 lbs	400 lbs	600 lbs	900 lbs	150 lbs	300 lbs	400 lbs	600 lbs	900 lbs
1/2	17	17	29.5	29.5	29.5	29.5	29.5	44.8	50.8	50.8	50.8	60.2
3/4	22	22	34.5	34.5	34.5	34.5	34.5	54.2	63.5	63.5	63.5	66.5
1	30	30	42.5	42.5	42.5	42.5	42.5	63.5	69.8	69.8	69.8	76.2
1 1/4	39	39	54.5	54.5	54.5	54.5	54.5	73.2	79.5	79.5	79.5	85.9
1 1/2	45	45	60.5	60.5	60.5	60.5	60.5	82.9	91.9	91.9	91.9	95.6
2	57	57	78.5	78.5	78.5	78.5	78.5	101.6	107.9	107.9	107.9	139.7
2 1/2	72	72	91.5	91.5	91.5	91.5	91.5	120.6	127.0	127.0	127.0	162.1
3	92	92	113.5	113.5	113.5	113.5	113.5	133.3	145.7	145.7	145.7	165.1
3 1/2	102	102	123.5	123.5	123.5	123.5	–	158.7	161.8	158.8	158.8	–
4	117	117	140.5	140.5	140.5	140.5	140.5	171.4	177.8	174.8	190.5	203.1
5	142	142	167.5	167.5	167.5	167.5	167.5	193.5	212.6	209.6	238.3	244.3
6	170	170	197.5	197.5	197.5	197.5	197.5	218.9	247.3	244.3	263.7	285.7
8	222	222	251.5	251.5	251.5	251.5	251.5	276.1	304.8	301.8	317.5	355.6
10	278	278	300	306	306	312	312	336.6	359	355.6	396.7	431.8
12	326	326	364	364	364	368	368	406.4	419.1	415.8	453.9	495.3
14	370	370	400	400	400	400	400	447.9	482.6	479.3	489	517.7
16	420	420	456	456	456	456	456	511.4	536.4	533.4	562.2	571.5
18	480	480	518	518	520	520	520	546.1	593.6	590.6	609.6	635
20	530	530	568	568	570	570	570	603.2	650.7	644.7	679.4	695.5
24	630	630	668	678	678	678	678	714.2	771.7	765	787.4	835.2

DN / inch = nominal size · d1 = inside diameter · d2 = outside diameter of the graphite facing · d3 = outside diameter of the gasket · The graphite width required for a gasket calculation is available for download on our website – revoseal.com · Total thickness 1.6 ± 0.1 mm · Also available in other DIN and ANSI dimensions · Design and calculation to revoseal company standard

Visio



Service for the entire bolted joint

From calculation to installation during shutdown

In recent years, the requirements placed on industrial sealing systems with regard to environmental protection, plant availability and safety have become significantly stricter. To take this and the complexity of the many factors acting in a flange sealing system into account, revoseal offers not only gasket design but also the **calculation of bolted joints to EN 1591-1** .

The basis for qualified proof of tightness to EN 1591-1 are the gasket characteristics to EN 13555 determined in extensive tests.

TAR services

- Support for critical shutdowns as a full-service provider
- Quality assurance of flange installation as an independent expert
- Installation service with tec-log
- Container service with Xeless

Training

- Fundamentals of sealing technology
- Installation training based on DIN EN 1591-4
- Operator-specific training

Co-Engineering

- Calculation of bolted joints to DIN EN 1591-1
- Customer-specific solutions and special shapes

FURTHER SERVICES

Support for customer projects from concept to realisation

Product training

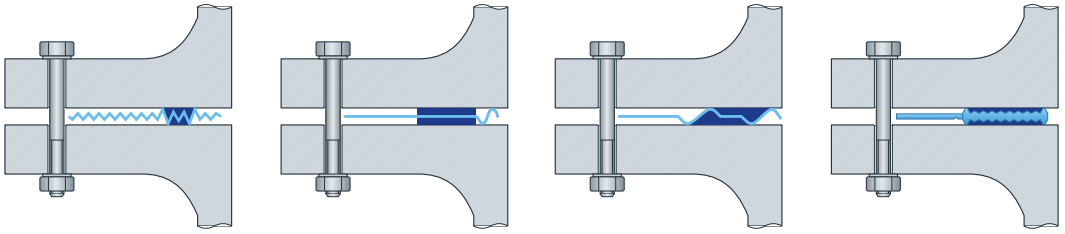
Installation training

GASKET CHARACTERISTICS TO EN 13555 – EXPLANATION

Characteristic	Explanation	Unit
Q_A	Gasket surface stress during installation	MPa
$Q_{min(L)}$	Minimum gasket stress required for tightness class L during installation	MPa
$Q_{Smin(L)}$	Minimum gasket stress required for tightness class L after unloading (operation)	MPa
$Q_{Smax(T)}$	Maximum surface stress (at a specified temperature)	MPa
E_G	Secant modulus of the gasket (unloading)	MPa
P_{QR}	Creep relaxation factor	–
α_G	Axial thermal expansion coefficient of the gasket	K^{-1}

revoseal gasket comparison

Our high-performance gaskets at a glance



	Revolution	Eco+	Visio	JG / JP
Temperature range [1)]	−270 °C to +500 °C	−270 °C to +500 °C	−270 °C to +500 °C	−270 °C to +1,000 °C [2)]
Pressure range	Vacuum to 64 bar	Vacuum to 160 bar	Vacuum to 160 bar	Vacuum to 400 bar
Soft-material facing	Graphite / PTFE	Graphite / PTFE	Graphite / PTFE	Graphite / PTFE
Carrier material	1.4571 / 1.4404	1.4571	1.4571	Various stainless steels, nickel, duplex steels, titanium grades, carbon steels etc.
Available gasket thicknesses	1.6 mm	1.6 mm	1.6 mm	JG from 2.0 mm / JP from 2.5 mm
Maximum dimensions	up to DN 400 / 16" (ASME)	up to 1,200 mm	up to 1,200 mm	up to 4,000 mm

1) With PTFE soft-material facings, the maximum operating temperature is 260 °C. · 2) Depending on the carrier material.

CERTIFICATES

	Revolution	Eco+	Visio	JG / JP
TA Luft (incl. blow-out resistance to VDI 2200)	✓	✓	✓	✓
Fire safe to API 607	✓	✓	✓	✓
FDA certificate (PTFE version)	✓	✓	✓	✓
DVGW (DIN 3535-6)	On request, soft-material facings certified to DVGW (DIN 3535-6) can be used.			

Apparatus & special gaskets

Gasket solutions to customer requirements – made to measure

For apparatus and special flanges, revoseal also offers high-quality gasket solutions manufactured precisely to customer requirements.

These can be, for example, gaskets for heat exchangers, pressure vessels, tank and filter systems, as well as apparatus and plants in the following sectors:

- Chemicals and petrochemicals
- Pipeline construction (oil and gas)
- Refineries
- Power plant construction
- Industrial plants
- Food and pharmaceutical industry

Due to their design, apparatus such as heat exchangers often have thin walls and a weak flange geometry, which frequently makes finding the optimum gasket a challenge.

For apparatus flanges, the effective gasket width can be adapted for the qualified calculation-based proof of technical tightness to TA Luft, VDI 2290 in accordance with DIN EN 1591-1.

EXAMPLES OF SPECIAL GASKET GEOMETRIES



JP special gasket (for flange combination of type B and C)



JP double gasket (with holes for leakage sensors)

Gasket dimensions up to a maximum of 4,000 mm are possible; for further technical features of our JG/JP gasket type, see page 5.

Standard gaskets

The revoseal product range – everything from a single source

To complete its product portfolio as a full-range supplier, revoseal of course also supplies all established standard gaskets, such as metal gaskets with soft-material facing (kammprofile and spiral wound gaskets) and metal gaskets to all common standards and in various materials – everything from a single source, from a single piece to a complete plant.

revoseal SWG
Spiral wound gaskets
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revoseal KJ
Kammprofile gaskets
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Ring joint gaskets
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Weld ring gaskets
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STANDARD GASKETS AT FAIR PRICES

Fibre gaskets
0.5–3 mm · TA Luft, BAM, Fire Safe, WRAS

PTFE gaskets
0.5–3 mm · TA Luft, BAM, FDA, EC 1935/2004

Graphite gaskets
0.5–4 mm · TA Luft, BAM, Fire Safe, DVGW

Spiral wound gaskets
EN 1514-2, ASME B16.20 · graphite, PTFE, ceramic

Kammprofiles
EN 1514-6, ASME B16.20 · also convex and oval

Ring Joints
ASME B16.20, API 6A · oval, octagonal, RX, BX

Lens gaskets
DIN 2696 or customer-specific to drawing

Weld rings
DIN, ASME, EN, GOST, JIS · membrane and hollow lip

revoseal SWG

Spiral wound gaskets

PRODUCT DATA

- Total thickness: 4.5 mm (other thicknesses on request)
- Available in various carrier materials
- Graphite, PTFE or mica filler as required
- Manufacturing standards: EN 1514-2, ASME B16.20 etc. (also available in special dimensions)

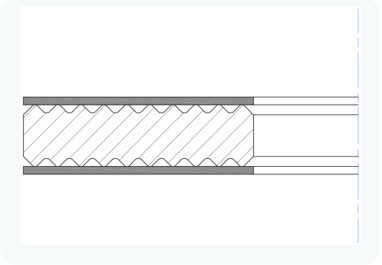
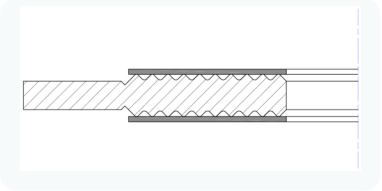
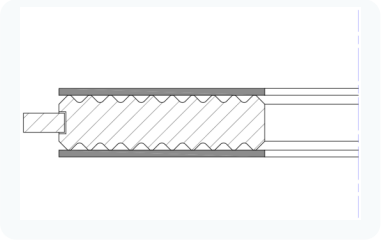
TYPE	CROSS-SECTION	DESCRIPTION
SIA		Spiral wound gasket with inner and outer ring, with graphite or PTFE filler
SI		Spiral wound gasket with inner ring and graphite or PTFE filler
SA		Spiral wound gasket with outer ring and graphite or PTFE filler
S		Spiral wound gasket without inner and outer ring, with graphite or PTFE filler (e.g. for tongue & groove)

revoseal KJ

Kammprofile gaskets

PRODUCT DATA

- Total thickness: 5.0 mm (4.0 mm metal core + 2 × 0.5 mm graphite facings), other thicknesses available on request
- Available in various carrier materials
- Graphite or PTFE facing as required
- All models also available with convex kammprofile
- Manufacturing standards: EN 1514-6, EN 12560-6, ASME B16.20 etc. (also available in special dimensions)

TYPE	CROSS-SECTION	DESCRIPTION
KJ1		Kammprofile gasket without centering ring, with graphite or PTFE facing
KJ2		Kammprofile gasket with centering ring, break-off groove and graphite or PTFE facing
KJ3		Kammprofile gasket with loose centering ring and graphite or PTFE facing

revoseal RJ

Ring joint gasket types RJ-OV, RJ-OC, RJ-RX and RJ-BX.

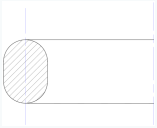
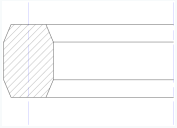
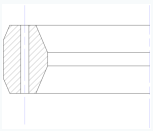
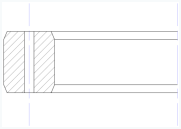
PRODUCT DESCRIPTION

revoseal ring joint gaskets of the RJ series are used primarily in refineries and in the petrochemical industry. Manufacturing standard: ASME B16.20.

KEY BENEFITS

- Suitable for very high pressures
- High compressive strength
- Wide choice of designs and alloys
- Designed for the oil and gas sector

TYPES

TYPE	CROSS-SECTION	DESCRIPTION
RJ-OV		Ring joint gasket, oval design. Particularly suitable for flanges in existing plants; widely used in refineries and high-pressure pipelines. **Standards:** ASME B16.20, API 6A · flanges ANSI B16.5, ANSI B16.47 Table A
RJ-OC		Ring joint gasket, octagonal design. Particularly suitable for newly manufactured flanges, e.g. on high-pressure valves; not recommended for existing flanges with worn gasket seats. **Standards:** ASME B16.20, API 6A · flanges ANSI B16.5, ANSI B16.47 Table A
RJ-RX		Ring joint gasket, type RX. For lines and equipment with working pressures above 20.000 psi (140 MPa), with pressure-balancing hole. **Standards:** ASME B16.20, API 6A · flanges API 6B
RJ-BX		Ring joint gasket, type BX. For lines and equipment with working pressures above 20.000 psi (140 MPa), with pressure-balancing hole. **Standards:** API 6A · flanges API BX

Materials and marking

Designation	Material no.	Hardness (HB)	US type AISI	Marking
Pure iron, Armco	1.1003	90–100	Soft-Iron	D
Low-carbon steel	–	120	Low-Carbon-Steel	S
13 CrMo 44	1.7335	approx. 130	–	7335
12 CrMo 19 5	1.7362	approx. 130	501	F5
X6 Cr 13	1.4000	approx. 170	410S	S 410
X5 CrNi 1810	1.4301	approx. 160	304	S 304
X5 CrNiMo 17122	1.4401	approx. 160	316	S 316
X6 CrNiTi 1810	1.4541	approx. 160	321	S 321
X6 CrNiNb 1810	1.4550	approx. 160	347	S 347
X6 CrNiMoTi 17122	1.4571	approx. 160	316 Ti	316 Ti

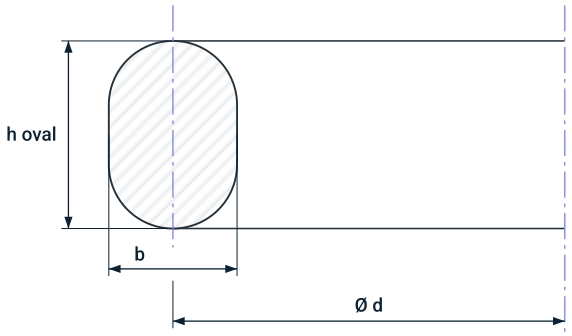
Materials to ASTM

Material	UNS	Brinell HB	Vickers HV	Material code
ASTM Soft Iron	G10060	90	56	D
ASTM Carbon Steel	G10080	120	68	S
ASTM 4–6 Cr ½ Mo	K41545	130	72	F5
ASTM AISI 410	S41000	170	86	S 410
ASTM AISI 304	S30400	160	83	S 304
ASTM AISI 316L	S31603	160	83	S 316
ASTM AISI 347	S34700	160	83	S 347

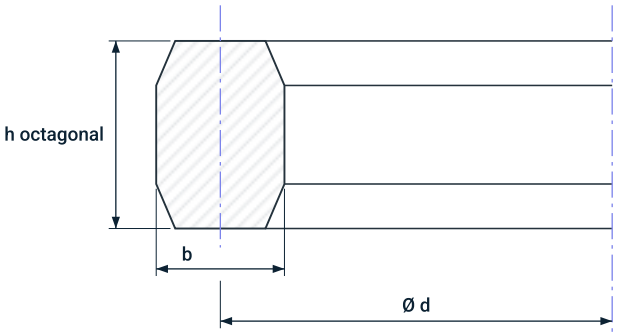
Dimension table type RJ-OV, RJ-OC

to ANSI B16.20 or API Std. 6A

RJ-OV



RJ-OC



Ring	[DN] inch	[PN] lbs	Ring dimensions			
			d	b	h oval	h octagonal
R11	½	300 – 600	34.13	6.35	11.11	9.52
R12	½	900 – 1500	39.68	7.93	14.28	12.70
R13	½	2500	42.86	7.93	14.28	12.70
R13	¾	300 – 600	42.86	7.93	14.28	12.70
R14	¾	900 – 1500	44.45	7.93	14.28	12.70
R15	1	150	47.62	7.93	14.28	12.70
R16	¾	2500	50.80	7.93	14.28	12.70
R16	1	300 – 1500	50.80	7.93	14.28	12.70
R17	1 ¼	150	57.15	7.93	14.28	12.70
R18	1	2500	60.32	7.93	14.28	12.70
R18	1 ¼	300 – 1500	60.32	7.93	14.28	12.70
R19	1 ½	150	65.08	7.93	14.28	12.70
R20	1 ½	300 – 1500	68.26	7.93	14.28	12.70
R21	1 ¼	2500	72.23	11.11	17.46	15.87
R22	2	150	82.55	7.93	14.28	12.70
R23	1 ½	2500	82.55	11.11	17.46	15.87
R23	2	300 – 600	82.55	11.11	17.46	15.87
R24	2	900 – 1500	95.25	11.11	17.46	15.87
R25	2 ½	150	101.60	7.93	14.28	12.70
R26	2	2500	101.60	11.11	17.46	15.87
R26	2 ½	300 – 600	101.60	11.11	17.46	15.87
R27	2 ½	900 – 1500	107.95	11.11	17.46	15.87
R28	2 ½	2500	111.12	12.70	19.05	17.46
R29	3	150	114.30	7.93	14.28	12.70

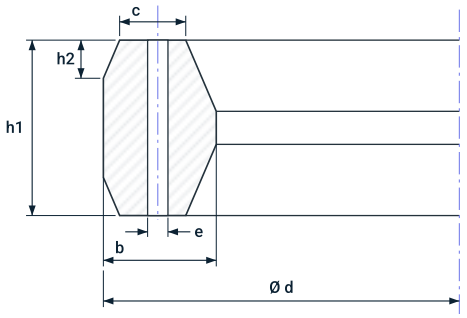
Dimension table type RJ-OV, RJ-OC (continued)

Ring	[DN] inch	[PN] lbs	Ring dimensions			
			d	b	h oval	h octagonal
R30	3	300 – 600	117.47	11.11	17.46	15.87
R31	3	300 – 900	123.82	11.11	17.46	15.87
R32	3	2500	127.00	12.70	19.05	17.46
R33	3 ½	150	131.76	7.93	14.28	12.70
R34	3 ½	300 – 600	131.76	11.11	17.46	15.87
R35	3	1500	136.52	11.11	17.46	15.87
R36	4	150	149.22	7.93	14.28	12.70
R37	4	300 – 900	149.22	11.11	17.46	15.87
R38	4	2500	157.16	15.87	22.22	20.64
R39	4	1500	161.92	11.11	17.46	15.87
R40	5	150	171.45	7.93	14.28	12.70
R41	5	300 – 900	180.97	11.11	17.46	15.87
R42	5	2500	190.50	19.05	25.40	23.81
R43	6	150	193.67	7.93	14.28	12.70
R44	5	1500	193.67	11.11	17.46	15.87
R45	6	300 – 900	211.13	11.11	17.46	15.87
R46	6	1500	211.13	12.70	19.05	17.46
R47	6	2500	228.60	19.05	25.40	23.81
R48	8	150	247.65	7.93	14.28	12.70
R49	8	300 – 900	269.87	11.11	17.46	15.87
R50	8	1500	269.87	15.87	22.22	20.64
R51	8	2500	279.40	22.22	25.57	26.99
R52	10	150	304.80	7.93	14.28	12.70
R53	10	300 – 900	323.85	11.11	17.46	15.87
R54	10	1500	323.85	15.87	22.22	20.64
R55	10	2500	342.90	28.57	36.51	34.92
R56	12	150	381.00	7.93	14.28	12.70
R57	12	300 – 900	381.00	11.11	17.46	15.87
R58	12	1500	381.00	22.22	28.57	26.99
R59	14	150	396.87	7.93	14.28	12.70
R60	12	2500	406.40	31.75	39.68	38.10
R61	14	300 – 600	419.10	11.11	17.46	15.87
R62	14	900	419.10	15.87	22.22	20.64
R63	14	1500	419.10	25.40	33.33	31.75
R64	16	150	454.02	7.93	14.28	12.70
R65	16	300 – 600	469.90	11.11	17.46	15.87
R66	16	900	469.90	15.87	22.22	20.64
R67	16	1500	469.90	28.57	36.51	34.92
R68	18	150	517.52	7.93	14.28	12.70
R69	18	300 – 600	533.40	11.11	17.46	15.87
R70	18	900	533.40	19.05	25.40	23.81
R71	18	1500	533.40	28.57	36.51	34.92
R72	20	150	558.80	7.93	14.28	12.70
R73	20	300 – 600	584.20	12.70	19.05	17.46
R74	20	900	584.20	19.05	25.40	23.81
R75	20	1500	584.20	31.75	39.68	38.10
R76	24	150	673.10	7.93	14.28	12.70
R77	24	300 – 600	692.15	15.87	22.22	20.64
R78	24	900	692.15	25.40	33.33	31.75
R79	24	1500	692.15	34.92	44.45	41.27

Dimension table type RJ-OV, RJ-OC (continued)

Ring	[DN] inch	[PN] lbs	Ring dimensions			
			d	b	h oval	h octagonal
R80	22	150	615.95	7.93	–	12.70
R81	22	300 – 600	635.00	14.28	–	19.05
R82	1	10000	57.15	11.11	–	15.87
R84	1 ½	10000	63.50	11.11	–	15.87
R85	2	10000	79.37	12.70	–	17.46
R86	2 ½	10000	90.49	15.87	–	20.63
R87	3	10000	100.01	15.87	–	20.63
R88	4	10000	123.83	19.05	–	23.81
R89	3 ½	10000	114.30	19.05	–	23.81
R90	5	10000	155.58	22.22	–	26.98
R91	10	10000	260.35	31.75	–	38.10
R92	X	–	228.60	11.11	17.46	15.87
R93	26	300 – 600	749.30	19.05	–	23.81
R94	28	300 – 600	800.10	19.05	–	23.81
R95	30	300 – 600	857.25	19.05	–	23.81
R96	32	300 – 600	914.40	22.22	–	26.98
R97	34	300 – 600	965.20	22.22	–	26.98
R98	36	300 – 600	1022.35	22.22	–	26.98
R99	8	2000 – 3000	234.95	11.11	–	15.87
R100	26	900	749.30	28.57	–	34.92
R101	28	900	800.10	31.75	–	38.10
R102	30	900	857.25	31.75	–	38.10
R103	32	900	914.40	31.75	–	38.10
R104	34	900	965.20	34.92	–	41.27
R105	36	900	1022.35	34.92	–	41.27

X Not covered by the standard. Other dimensions available. Tolerances: d ± 0.18 mm, b ± 0.2 mm, ho and hk ± 0.4 mm. Design to revoseal company standard.

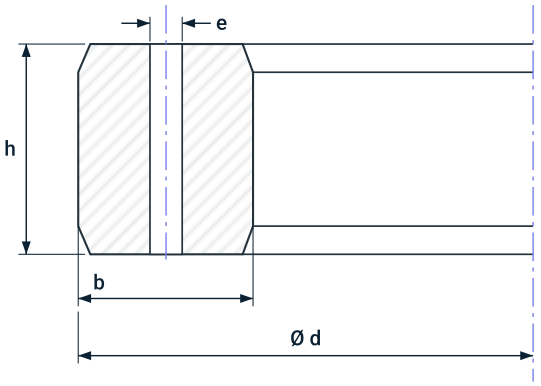


Dimension table type RJ-RX

to ANSI B16.20 or API Std. 6A

Ring	[DN] inch	[PN] lbs	Ring dimensions					
			d	b	c	h1	h2	Hole e
RX20	1	2000. 3000. 5000	76.20	8.73	4.62	19.05	3.18	–
RX23	2	2000	93.27	11.91	6.45	25.40	4.24	–
RX24	2	3000. 5000	105.97	11.91	6.45	25.40	4.24	–
RX25	3	5000	109.54	8.73	4.62	19.05	3.18	–
RX26	2 ½	2000	111.92	11.91	6.45	25.40	4.24	–
RX27	2 ½	3000. 5000	118.27	11.91	6.45	25.40	4.24	–
RX31	3	2000. 3000	134.54	11.91	6.45	25.40	4.24	–
RX35	3	5000	147.24	11.91	6.45	25.40	4.24	–
RX37	4	2000. 3000	159.94	11.91	6.45	25.40	4.24	–
RX39	4	5000	172.64	11.91	6.45	25.40	4.24	–
RX41	5	2000. 3000	191.69	11.91	6.45	25.40	4.24	–
RX44	5	5000	204.39	11.91	6.45	25.40	4.24	–
RX45	6	2000. 3000	221.85	11.91	6.45	25.40	4.24	–
RX46	6	5000	222.25	13.49	6.68	28.58	4.78	–
RX47	8	crossover flange	245.30	19.84	10.34	41.28	6.88	–
RX49	8	2000. 3000	280.59	11.91	6.45	25.40	4.24	–
RX50	8	5000	283.37	16.67	8.51	31.75	5.28	–
RX53	10	2000. 3000	334.57	11.91	6.45	25.40	4.24	–
RX54	10	5000	337.34	16.67	8.51	31.75	5.28	–
RX57	12	2000. 3000	391.72	11.91	6.45	25.40	4.24	–
RX63	14	5000	441.72	26.99	14.78	50.80	8.46	–
RX65	16	2000	480.62	11.91	6.45	25.40	4.24	–
RX66	16	3000	483.39	16.67	8.51	31.75	5.28	–
RX69	18	2000	544.10	11.91	6.45	25.40	4.24	–
RX70	18	3000	550.10	19.84	10.34	41.28	6.88	–
RX73	20	2000	596.10	13.49	6.68	31.75	5.28	–
RX74	20	3000	600.87	19.84	10.34	41.28	6.88	–
RX82	X	–	67.87	11.91	6.45	25.40	4.24	1.6
RX84	X	–	74.22	11.91	6.45	25.40	4.24	1.6
RX85	X	–	90.09	13.49	6.68	25.40	4.24	1.6
RX86	X	–	103.58	15.08	8.51	28.58	4.78	2.4
RX87	X	–	113.11	15.08	8.51	28.58	4.78	2.4
RX88	X	–	139.30	17.46	10.34	31.75	5.28	3.2
RX89	X	–	129.78	18.26	10.34	31.75	5.28	3.2
RX90	X	–	174.62	19.84	12.17	44.45	7.42	3.2
RX91	X	–	286.94	30.16	19.81	45.24	7.54	3.2
RX99	X	–	245.67	11.91	6.45	25.40	4.24	–
RX201	1 ¼	5000	51.46	5.74	3.20	11.30	1.45	–
RX205	1 ¾	5000	62.31	5.56	3.05	11.10	1.83	–
RX210	2 ½	5000	97.63	9.53	5.41	19.05	3.18	–
RX215	4 – 4 ½	5000	140.89	11.91	5.33	25.40	4.24	–

X Not covered by the standard. Other dimensions available. Tolerances: d +0.51 mm, h1/h2 −0.8 mm, b +0.2 mm, c +0.15 mm. Design to revoseal company standard.



Dimension table type RJ-BX

to ANSI B16.20 or API Std. 6A

Ring	[DN] inch	[PN] lbs	Ring dimensions			
			d	b	h	Hole e
BX 150	1 11/16	10000. 15000	72.19	9.30	9.30	1.60
BX 151	1 13/16	10000. 15000. 20000	76.40	9.63	9.63	1.60
BX 152	2 1/16	10000. 15000. 20000	84.68	10.24	10.24	1.60
BX 153	2 9/16	10000. 15000. 20000	100.94	11.38	11.38	1.60
BX 154	3 1/16	10000. 15000. 20000	116.84	12.40	12.40	1.60
BX 155	4 1/16	10000. 15000. 20000	147.96	14.22	14.22	1.60
BX 156	7 1/16	10000. 15000. 20000	237.92	18.62	18.62	3.20
BX 157	9	10000. 15000	294.46	20.98	20.98	3.20
BX 158	11	10000. 15000	352.04	23.14	23.14	3.20
BX 159	13 5/8	10000	426.72	25.70	25.70	3.20
BX 160	13 5/8	5000	402.59	13.74	23.83	3.20
BX 161	16 3/4	–	491.41	16.20	28.07	3.20
BX 162	16 3/4	5000. 10000	475.49	14.22	14.22	1.60
BX 163	18 3/4	5000	556.16	17.37	30.10	3.20
BX 164	18 3/4	10000	570.56	24.59	30.10	3.20
BX 165	21 1/4	5000	624.71	18.49	32.03	3.20
BX 166	21 1/4	10000	640.03	26.14	32.03	3.20
BX 167	26 3/4	2000	759.36	13.11	35.86	1.60
BX 168	26 3/4	3000	765.25	16.05	35.86	1.60
BX 169	5 1/8	10000	173.52	12.93	15.84	1.60
BX 170	9	–	218.03	14.22	14.22	1.60
BX 171	11	–	267.44	14.22	14.22	1.60
BX 172	13 5/8	–	333.07	14.22	14.22	1.60
BX 303	30	2000. 3000	852.75	16.97	37.95	1.60

Tolerances: d −0.15 mm, b +0.2 mm, h +0.2 mm. Design to revoseal company standard.

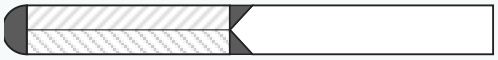
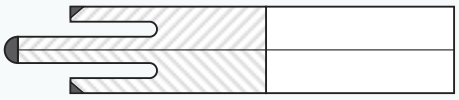
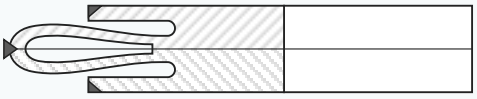
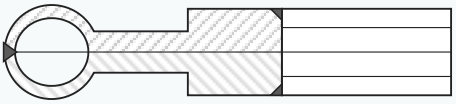
revoseal SJ

Weld ring gaskets

revoseal weld ring gaskets of the SJ series are used primarily in the chemical and petrochemical industry, wherever hazardous media occur and absolute sealing reliability is required. Permanent technical tightness is achieved by welding the two membrane halves together.

PRODUCT DATA

- Models SJ-11, SJ-12 and SJ-13 are also available with a secondary seal as kammprofile or spiral wound gasket
- Available in various materials and further designs
- Manufacturing standards: DIN, ASME, EN, GOST, JIS etc. (also available in special dimensions)

TYPE	CROSS-SECTION	DESCRIPTION
SJ-10		Membrane weld ring gasket
SJ-11		Membrane weld ring gasket with external welds
SJ-12		Membrane weld ring gasket with hollow lip to absorb differing radial expansion
SJ-13		Membrane weld ring gasket with hollow lip to absorb large differing radial expansion, e.g. in heat exchangers

Installation guide for flange gaskets

Preparation, tools, cleaning and inspection

1 Prepare › 2 Clean & inspect › 3 Align flanges › 4 Insert gasket › 5 Lubricate › 6 Tighten 30 / 60 / 100 %

1 Preparation

This installation guide is intended to supplement the relevant site regulations and installation documentation. Before any work is carried out, the required permit must be available and all specified measures and requirements must be fulfilled.

The sealing result depends on the interaction of the individual components of the flange system, which must be matched to one another.

TOOL REQUIREMENTS

The following tools are generally required for cleaning and installation:

- Torque wrench (calibrated)
- Counter-holding tool
- Wire brush (ideally brass)
- Lubricant
- Personal protective equipment (PPE)

2 Cleaning and inspection

Contamination and residues must be completely removed from the sealing faces and fasteners (e.g. bolts, nuts, washers). If reuse of the fasteners complies with site regulations, their integrity must be checked in particular. This inspection includes, for example, checking for:

- ✓ Bolt elongation
- ✓ Corrosion
- ✓ Cracks
- ✓ Damage such as scratches on the sealing faces

The gasket to be used must also be checked for dimensional accuracy, material and damage.

⚠ **Important:** Damaged components must always be replaced.

Installation guide for flat gaskets

Aligning, inserting, lubricating and tightening

3 Align flanges

Before installing the gasket, the flanges must be aligned plane-parallel. Make sure this is not done with excessive force, as otherwise the clamping forces of the fasteners would be used to align the flanges.

> **Note:** If required, a straight edge can be used for checking.

4 Insert gasket

Once the flanges are correctly aligned, the gasket can be carefully pushed into the flange gap. Release agents and sealing pastes must not be used. Make sure that the gasket is properly centred.

> **Note:** Using installation studs allows exact centering of the gasket, even when reduced-shank fasteners are used.

5 Lubrication

Only approved and specified lubricants may be used. Lubricate all load-bearing surfaces such as threads, nuts and washers. A thin but complete film of lubricant is sufficient.

> **Note:** Make sure that neither the gasket nor the flange sealing faces come into contact with lubricant.

6 Installing the fasteners

Insert the lubricated fasteners and tighten them by hand. Then tighten the bolts crosswise with the torque wrench in three passes (30 %, 60 %, 100 % of the torque) (for further information on the tightening sequence, see page 39).

Example: Torque specified for installation: 100 Nm. Finally, tighten or check all bolts clockwise at full torque.

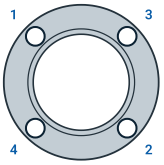


7 Retightening existing bolted joints

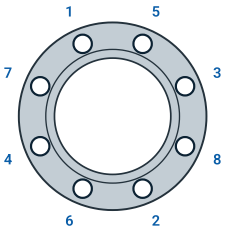
As a rule, bolted joints may only be retightened when depressurised and at ambient temperature, taking the specified torque into account.

Bolt tightening sequence for flange connections

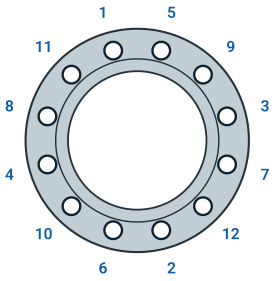
Crosswise tightening of the bolts



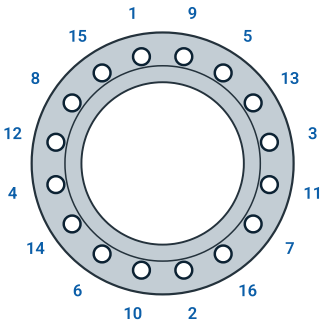
4-hole flanges, pitch 90°



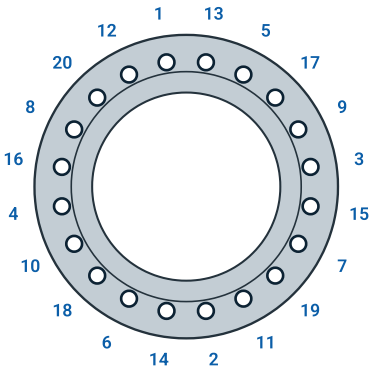
8-hole flanges, pitch 45°



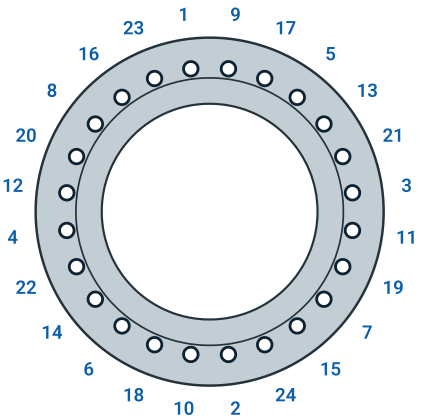
12-hole flanges, pitch 30°



16-hole flanges, pitch 22.5°



20-hole flanges, pitch 18°



24-hole flanges, pitch 15°

Note: For flanges with a large number of bolts, it is advisable to mark the numbering on the flange.

Materials and marking

Technical information · Part 1: designations and standards

Designation	Short designation DIN 17006	Material DIN 17007	Alloy	AISI / ASTM	DIN / EN	UNS	AMS	BS
Pure iron (e.g. Armco)	e.g. S235 JRG1	1.1003	–	soft iron	–	–	–	–
Modified soft iron	StW24	1.0335	DD14	soft iron	DIN 1614; EN 10111/ 10149-2/ 10051	–	–	–
Pressure vessel steel	P265GH	1.0425	–	–	DIN EN 10028-2	–	–	–
General structural steel	St33	1.0035	–	–	–	–	–	–
	RSt 37-2	1.0122	A105	A570 Gr36	DIN 5512-1; EN 10025-2/10277-2	–	–	S235
	St35.8	1.0305	A106	–	DIN50112-1	–	–	P235
Electrogalvanised steel	St12	1.0330	DC01	1008	DIN5512-2	G 10080	–	DC 01/ 1449 Part 1
Sheet steel	Ust 13, St13	1.0333	–	A366	–	–	–	–
Stainless and acid-resistant steel	X12Cr 13	1.4006	410	AISI 410; ASTM F1079	DIN SEW310; EN10088- 1'-2'-3/10250-4/10263-5/10272/10297-2	S41000	5351/ 5504/ 5505/ 5591	–
	X6Cr 17	1.4016	430	–	DIN5512-3; EN10088- 1/2/3/ 10151/ 10250/ 10263/ 10296/ 10297	–	–	–
	X20Cr 13	1.4021	420	AISI 420	DIN SEW310; EN10088- 1'-2'-3/10250-4/10263-5/10272/10297-2	S4200	5351/ 5504/ 5505/ 5591	–
	X5CrNi 18 10	1.4301	304	304	DIN4133/5512-3/ SEW310	S30400	–	–
	X5CrNiMo 17 12 2	1.4401	316	–	DIN5512-3/8566-2	S31600 / S31609	5524K/ 5573L/ 5690L/ 5907A	1501/ 1503/ 1506/ 1554
	X2CrNiMo 17 12 2	1.4404	316L	–	17440	S31603	–	–
	X6CrNiTi 18 10	1.4541	321	321/B8TA	DIN4133/5512; EN10028/ 10088/ 10216/ 10217/ 10222/ 10250/ 10263/ 10272/ 10296/ 10297/ 10312/ 50112	S32100	AMS 7325F/ 7490N/ 5510/ 5557/ 5559/ 5570/ 5645/ 5689/ 5896/ 7211	970/ 1501/ 1502/ 1503/ 3605/ 3606
	X6CrNiNb 18 10	1.4550	347	347/B8CA	DIN17440; EN10028/ 10088/ 10216/ 10217/ 10222/ 10250/ 10272/ 10296/ 10297	–	–	970/ 1501/ 1502/ 1503/ 3605/ 3606
	X6CrNiMoTi 17 12 2	1.4571	316Ti	316Ti	DIN4133/5512; EN10028/ 10088/ 10216/ 10217/ 10222/ 10250/ 10263/ 10272/ 10296/ 10297/ 10312	S31635	–	970/ 1501/ 1554
Heat-resistant stainless steel	X10CrAlSi 25	1.4762	446	–	DIN43700/43720/ SEW 310/ SEW 470; EN10088/10095	S44600	QQ-S-763	–
	X15CrNiSi 20 12	1.4828	309	309	DIN SEW310 / SEW 470; EN 10088/10095/10296	S30900	QQ-S-763	1449
	X12NiCrSi 3 5 16	1.4864	330-DS	MT330/ N08330	DIN SEW310 / SEW 470; EN 10088/10095	N08330	–	–
	X10NiCrAl 3 2 20	1.4876	800	N08800/ 8810/ 8811/ 8332	DIN SEW310 / SEW 470; EN10088/10095/10297	N08800/ 8810	5766D / 5871D	3072/ 3073/ 3074/ 3075/ 3076
Heat-resistant steel	16Mo3	1.5415	F /P 1	A / B / C	DIN 4133/SEW 310; EN 10028/ 10216/ 10217/ 10222/ 10273	K11820/ K12020/ K12320	–	1501/ 3059/ 3606
	13CrMo 4 5	1.7335	F/P11 F/P12	ASTM F12	DIN SEW310; EN10028/10216/ 10222/10273	K11562/ K11757/ K12062	–	1501/ 1502/ 1503
Pressurised-water-resistant structural steel	12CrMo 19 5	1.7362	F/P 5	AISI 501/502; ASTM F5	DIN SEW028 / SEW310; EN 10028/10216	K41545/ S50100/ S50200	6467D	–
Heat-resistant structural steel	10CrMo 9 10	1.7380	F/P 22	ASTM F22	DIN SEW310; EN10028/10216/10273	K21390/ K21590	–	1501/ 1502/ 3059
	12CrMo 9 1	1.7386	F/P 9	AISI 504 ASTM F9	DIN SEW310; EN10216	K90941/ S50400/ S50488	–	3059

Materials and marking

Technical information · Part 2: mechanical and physical properties

Designation	Short designation DIN 17006	Material DIN 17007	Yield strength $R_{p0.2}$ N/mm²	Tensile strength R_m	Hardness HB	Temperature range °C	Density kg/dm³	Elongation min/max
Pure iron (e.g. Armco)	e.g. S235 JRG1	1.1003	180-230	300-340	90-100	-60 to +450	7.86	8%-11%
Modified soft iron	StW24	1.0335	185-195	170-400	80-90	-60 to +450	7.86	20%-40%
Pressure vessel steel	P265GH	1.0425	205-230	410-530	130-180	-60 to +450	7.85	22%-28%
General structural steel	St33	1.0035	190	285-295	95-120	-40 to +500	7.85	8%-11%
	RSt 37-2	1.0122	215-235	340-370	100-110	-40 to +500	7.85	8%-11%
	St35.8	1.0305	190-240	360-440	100-130	-40 to +500	7.85	–
Electrogalvanised steel	St12	1.0330	140-320	290-430	100-110	-40 to +500	7.85	24%-30%
Sheet steel	Ust 13, St13	1.0333	245-255	270-370	50-60	-40 to +500	7.85	20%-30%
Stainless and acid-resistant steel	X12Cr 13	1.4006	210-340	450-600	195-205	-40 to +500	7.85	20%-30%
	X6Cr 17	1.4016	210-340	450-600	190-200	-20 to +350	7.85	20%-30%
	X20Cr 13	1.4021	300-420	500-700	220-230	-20 to +500	7.85	15%-30%
	X5CrNi 18 10	1.4301	170-190	500-600	130-180	-250 to +550	8.00	40%-55%
	X5CrNiMo 17 12 2	1.4401	250-310	550-700	130-180	-110 to +550	7.95	40%-55%
	X2CrNiMo 17 12 2	1.4404	250-310	550-700	120-180	-110 to +550	7.95	40%-55%
	X6CrNiTi 18 10	1.4541	240-320	540-740	130-190	-250 to +550	7.90	40%-55%
	X6CrNiNb 18 10	1.4550	240-320	500-700	130-190	-250 to +550	7.90	40%-55%
	X6CrNiMoTi 17 12 2	1.4571	255-320	540-690	130-190	-110 to +550	7.98	40%-55%
Heat-resistant stainless steel	X10CrAlSi 25	1.4762	280-350	520-720	210-230	-110 to +800	8.00	9%-14%
	X15CrNiSi 20 12	1.4828	245-320	550-770	200-220	-110 to +1000	7.90	20%-30%
	X12NiCrSi 3 5 16	1.4864	250-320	550-750	215-225	-110 to +1000	8.00	25%-35%
	X10NiCrAl 3 2 20	1.4876	200-280	450-680	185-195	-110 to +1000	8.00	25%-35%
Heat-resistant steel	16Mo3	1.5415	200-310	400-600	130-170	-20 to +530	7.85	20%-30%
	13CrMo 4 5	1.7335	250-320	440-600	130-175	-60 to +560	7.85	20%-30%
Pressurised-water-resistant structural steel	12CrMo 19 5	1.7362	250-320	450-690	175-220	-40 to +650	7.85	20%-30%
Heat-resistant structural steel	10CrMo 9 10	1.7380	200-300	480-630	130-175	-40 to +590	7.85	18%-25%
	12CrMo 9 1	1.7386	220-390	590-740	210-220	-40 to +500	8.00	18%-25%

International material comparison

Technical information

German DIN materials can only be compared approximately with the assigned materials of other standards. The interchangeability of the compared materials must be checked in each individual case.

Mat. no.	DIN	AISI	UNS	SS	AFNOR	BS
1.4005	X12CrS13	416	S41600	2380	(Z12CF13)	416S21
1.4006	X10Cr13	410	S41000	2302	Z12C13	410S21
1.4016	X6Cr17	430	S43000	2320	Z8C17	430S15
1.4021	X20Cr13	420	S42000	2303	Z20C13	420S37
1.4034	X46Cr13	–	–	(2304)	(Z40C14)	(420S45)
1.4057	X12CrNi72	431	S43100	2321	Z15CN16.02	431S29
1.4104	X12CrMoS172	430F	S43020	2383	Z10CF17	(441S29)
1.4112	X90CrMoV18	440B	S44003	2319	–	–
1.4122	X35CrMo17	–	–	–	–	–
1.4301	X5CrNi1810	304	S30400	2332	Z6CN18.09	304S15
1.4305	X10CrNiS189	303	S30300	2346	Z10CNF18.09	303S31
1.4306	X2CrNi1911	304L	S30403	2352	Z2CN18.10	304S11
1.4310	X12CrNi177	301	S30100	2331	Z12CN17.07	301S21
1.4401	X5CrNiMo17122	316	S31600	2347	Z6CND17.11	316S31
1.4404	X2CrNiMo17132	316L	S31603	2348	Z2CND17.12	316S11
1.4435	X2CrNiMo18143	316L	S31603	2353	Z2CND17.13	316S11S
1.4436	X5CrNiMo17133	316	S31600	2343	Z6CND17.12	316S31
1.4438	X2CrNiMo18164	317L	S31703	2367	Z2CND1915	317S12
1.4439	X2CrNiMo17135	317LNM	S31726	–	–	–
1.4449	X5CrNiMo1713	317	S31700	–	–	317S16
1.4460	X4CrNiMo2752	329	S32900	2324	–	–
1.4462	X2CrNiMoN2253	–	(S318-08/-03)	2377	(Z3CNDU24.08)	318S13
1.4539	X1NiCrMoCu25205	(904L)	NO8904	2562	Z1NCDU2520	904S13
1.4541	X6CrNiTi1810	321	S32100	2337	Z6CNT18.10	321S31

International material comparison (continued)

Mat. no.	DIN	AISI	UNS	SS	AFNOR	BS
1.4550	X6CrNiNb1810	347	S34700	2338	Z6CNNb18.10	347S31
1.4571	X6CrNiMoTi17122	316Ti	S31635	2350	Z6CNDT17.12	320S31
1.4713	X10CrAl7	–	–	–	Z8CA7	–
1.4724	X10CrAl13	–	–	–	–	–
1.4742	X10CrAl18	–	–	–	Z10CAS18	–
1.4762	X10CrAl24	446	(S44600)	(2320)	Z10CAS24	–
1.4821	X20CrNiSi254	–	–	–	–	–
1.4828	X15CrNiSi2012	309	S30900	–	Z15CNS20.12	309S24
1.4841	X15CrNiSi2520	314	S31400	–	Z12CNS2520	314S25
1.4845	X12CrNi2521	310S	S31008	2361	Z12CN2520	310S24
1.4864	X12CrNiSi3616	330	NO8330	–	(Z12NC37.18)	(3076NA117)
1.4876	X10CrAlTi3220	(800)	N08800	–	Z8NC3232.21	3076NA15H
1.4878	X12CrNiTi189	321	S32100	2337	Z6CNT18.12	321S20
2.4068	LCNi99.2	B160	–	(N02201)	–	3074NA12
2.4360	NiCu30Fe	B164	–	(N04400)	–	3073NA13
2.4375	NiCu30Al	–	–	(N05500)	–	3076NA18
2.4610	NiMo16Cr16Ti	–	–	(N06455)	–	3076NA45
2.4816	NiCr15Fe	B166	–	(N06600)	–	3076NA14
2.4856	NiCr21Mo	–	–	(N06625)	–	3076NA43

AISI = American Iron and Steel Institute · ASTM = American Society for Testing and Materials · UNS = Unified Numbering System · SS = Swedish Standard · AFNOR = Association Française de Normalisation · BS = British Standard · ( ) = standardisation in preparation

Technical information

Units, conversions and pressure classes

International System of Units

Base quantity	Unit	Unit symbol
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodyn. temperature	kelvin	K
Amount of substance	mole	mol

Pressure

	Mpa	bar	N/mm²	psi
1 Mpa	1	10	1	145.04
1 bar	0.1	1	0.1	14.504
1 N/mm²	1	10	1	145.04
1 psi	0.00689	0.0689	0.00689	1

Temperature

	K	°C	°F
K		°C + 273.15	(°F - 459.67) x 5/9
°C	K - 273.15		(°F - 32) x 5/9
°F	K x 9/5 - 459.67	°C x 9/5 + 32	

Length units

	mm	m	inch	foot
1 mm	1	0.001	0.03937	0.0033
1 m	1000	1	39.37	32.808
1 inch	25.4	0.0254	1	0.0833
1 foot	304.8	0.3048	12	1

Pressure classes bar / ISO PN / lbs / ASME Class

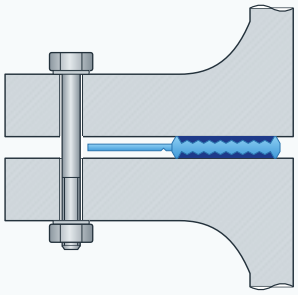
bar	Pressure Nominal (PN)	lbs. (PSIG)	ASME Class #
7		100	
10	10		
16	16		
17		250	
20	20		150
25	25		
35		500	
40	40		
50	50		300
52		750	
64	64		400
70		1000	
100	100		600
105		1500	
140		2000	
150	150		900
175		2500	
210		3000	
245		3500	
250	250		1500
280		4000	
420	420		2500

Conversion: 1 bar = 14.5 lbs / 1 lbs = 0.0689476 bar · bar values rounded.

Despite careful checking, we accept no liability for the content.

Application examples

Proven in practice – where other gaskets have failed



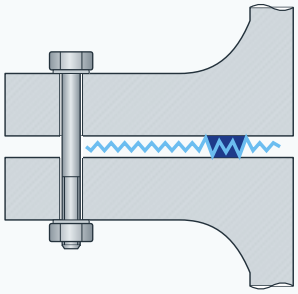
JG/JP

Long-standing sealing problems at a coolant manufacturer using hydrogen (H) and the corrosive medium hydrofluoric acid (HF) at temperatures of up to 400 °C in its process were successfully solved with the metal-to-metal sealing JP gasket (material: alloy stainless steel / graphite).



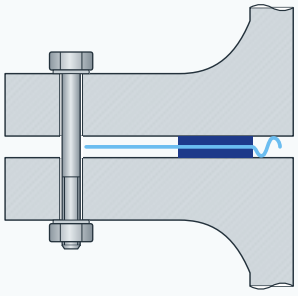
System Vario

By eliminating different gaskets for the individual pressure classes, a German precious metal manufacturer using the Vario centering system not only reduces its storage costs but also increases service life and plant safety thanks to the metal-to-metal seal.



Revolution

Due to strongly fluctuating loads in its Malotherm thermal oil system (operating temperature 400 °C, nominal pressure 10 bar) and steam network (operating temperature 320 °C, nominal pressure 30 bar), an international chemical group suffered regular leaks and resulting plant shutdowns. Using the Revolution gasket achieved permanent tightness.



Eco+

For more than 13 years, operational faults caused by gasket failure have been a thing of the past at an internationally operating gas producer. The Eco+ gasket, in use since 2005, is used in its plants for highly flammable and toxic gases at low temperatures (−175 °C) and 16 bar operating pressure.

Get in touch

We advise you on your bolted joint – personally and solution-oriented.

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Where is it leaking?

Tell us about your application – we will get in touch promptly and suggest the right solution.

Request advice