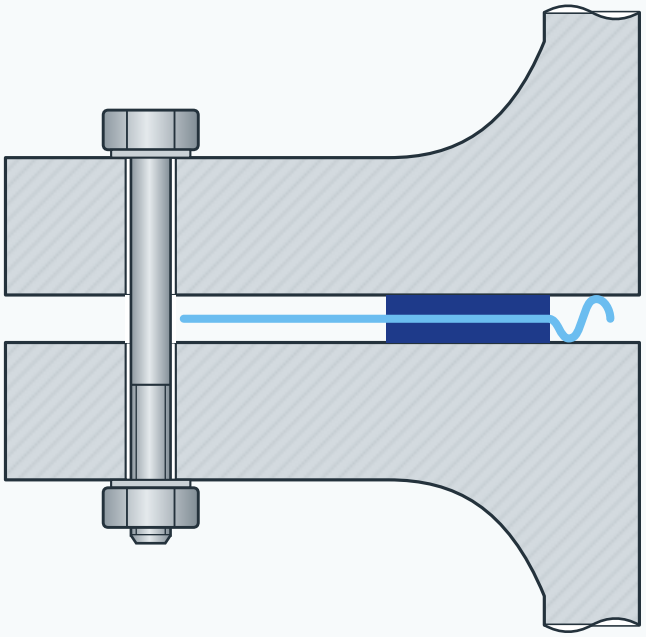
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Revoseal Eco+ Data Sheet

Metallic flat-profile gasket with facings



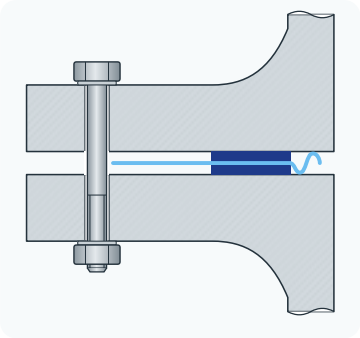
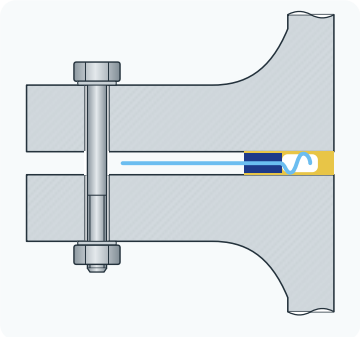
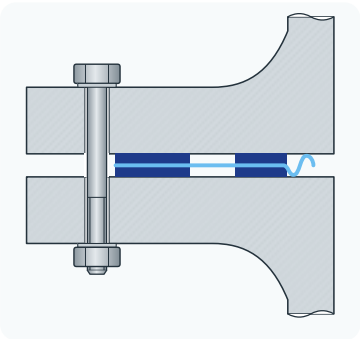
PRODUCT DESCRIPTION

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.

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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

Eco+

