

Embossed flat profile gasket

revoseal Revolution

The Revolution gasket is an embossed flat profile gasket consisting of a flexible stainless steel carrier and encapsulated graphite or PTFE on both sides. By the revolutionary construction and flexibility of the embossed cog height double metallic sealing as well as encapsulation of the graphite or PTFE is guaranteed. Owing to its wide application range, Revolution is the alternative to all conventional flat gasket types.

Highlights

- › Temperature: -200°C to + 500°C
- › Pressure range: from vacuum to 64 bar (400 lbs)
- › Over-achieves TA-Luft and **VDI 2290** in connection with a leakage check according to **EN 1591-1** (also at using screws of minor quality)
- › Standard material 1.4571
- › Available for DIN and ANSI – flanges to DN 400 / 16"
- › Available with graphite or PTFE coating
- › Total thickness 1.6 mm (+/- 0.1 mm)
- › Fire Safe Certificate according to **API 607** (also for PTFE) and blow-out resistance according to **VDI 2200**

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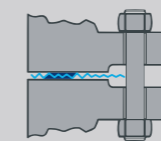


Type

Cross section

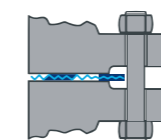
Designation

Revolution



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Revolution
Top



The Revolution Top has the same properties as the Revolution. It is, however, additionally provided with a secondary sealing of graphite with low density or PTFE. The secondary seal prevents from flange corrosion as often seen with carbon steel flanges.

Dimensions Revolution DIN

For flanges according to DIN 2632-2636 series 1 and DIN EN 1092-1

[DN]	d1		d2		d3		PN 10		PN 16		PN 25		PN 40		PN 64	
			PN 10-64		PN 10		PN 16	PN 25	PN 40	PN 64		PN 10	PN 16	PN 25	PN 40	PN 64
10	22		36		46		46	46	46	56		46	46	46	56	
15	22		39,5		50		50	50	50	61		50	50	50	61	
20	28		46,0		61		61	61	61	-		61	61	61	-	
25	35		53,5		71		71	71	71	82		71	71	71	82	
32	43		62,0		82		82	82	82	-		82	82	82	-	
40	50		69,0		92		92	92	92	103		92	92	92	103	
50	61		80,0		107		107	107	107	113		107	107	107	113	
65	77		97,5		127		127	127	127	137		127	127	127	137	
80	92		115,0		142		142	142	142	148		142	142	142	148	
100	115		139,0		162		162	162	162	174		162	168	168	174	
125	142		169,0		192		192	192	192	210		192	194	194	210	
150	168		194,0		218		218	218	218	224		224	224	224	247	
200	224		251,0		272		272	272	272	284		284	284	290	309	
250	270		298,0		327		327	327	328	340		340	340	352	364	
300	320		348,0		377		377	377	383	400		400	400	417	424	
350	375		405,0		437		437	437	443	457		457	457	474	486	
400	426		459,0		489		489	489	495	514		514	514	545	543	

DIN / Inch = nominal width • d1 = inside diameter • d2 = outside diameter of the graphite layer • d3 = outside diameter of the gasket

Total thickness is 1.6 +/- 0.1 mm

Design and calculation according to revoseal factory standard

Dimensions Revolution ANSI

For flanges according ANSI B 16.5

[inch]	d1		d2		d3		150 lbs		300 lbs		400 lbs	
					150 lbs		300 lbs	400 lbs	300 lbs	400 lbs	400 lbs	400 lbs
1/2	16		33,5		44,4		50,8	50,8	50,8	50,8	50,8	50,8
3/4	22		39,5		54,0		63,5	63,5	63,5	63,5	63,5	63,5
1	28		46,0		63,5		68,0	68,0	68,0	68,0	68,0	68,0
1 1/4	35		53,5		73,2		79,5	79,5	79,5	79,5	79,5	79,5
1 1/2	50		69,0		82,9		92,0	92,0	92,0	92,0	92,0	92,0
2	61		80,0		101,6		107,0	107,0	107,0	107,0	107,0	107,0
2 1/2	77		97,5		120,6		127,0	127,0	127,0	127,0	127,0	127,0
3	92		115,0		133,3		145,7	145,7	145,7	145,7	145,7	145,7
3 1/2	92		115,0		158,7		162,0	162,0	162,0	162,0	162,0	162,0
4	124		148,0		171,4		177,8	177,8	177,8	177,8	177,8	177,8
5	151		178,0		193,5		212,6	212,6	212,6	212,6	212,6	212,6
6	178		205,0		218,9		247,3	247,3	247,3	247,3	247,3	247,3
8	224		251,0		276,1		304,8	304,8	304,8	304,8	304,8	304,8
10	270		298,0		336,6		359,0	359,0	359,0	359,0	359,0	359,0
12	320		348,0		406,4		419,1	419,1	419,1	419,1	419,1	419,1
14	375		405,0		447,9		482,6	482,6	482,6	482,6	482,6	482,6
16	426		459,0		511,4		536,4	536,4	536,4	536,4	536,4	536,4

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