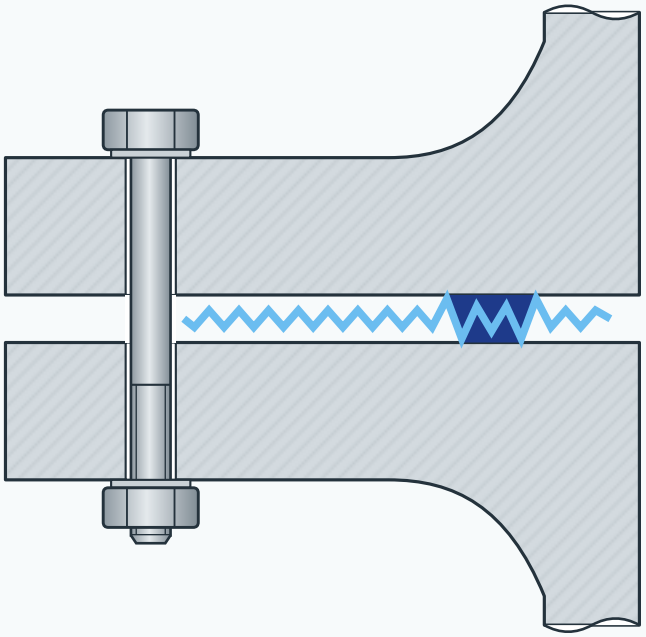
# Revoseal Revolution Data Sheet

Embossed flat-profile gasket



## PRODUCT DESCRIPTION

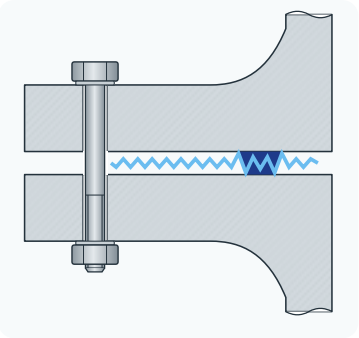
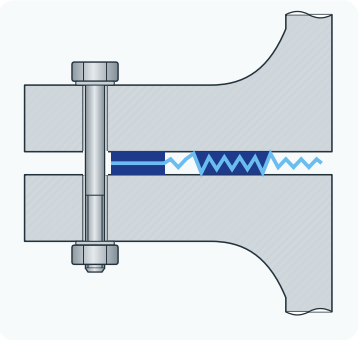
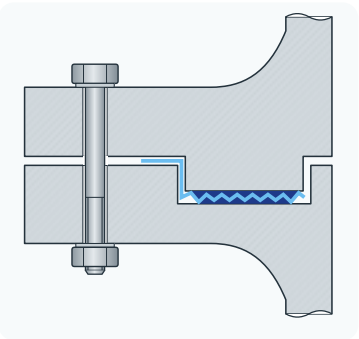
The Revolution gasket is an embossed flat-profile gasket made from a flexible stainless steel carrier with graphite or PTFE encapsulated on both sides.

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.<br>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. |

revoseal

## 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 |
| **3 1/2** | 92 | 115.0 | 158.7 | 162.0 | 158.8 |
| **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

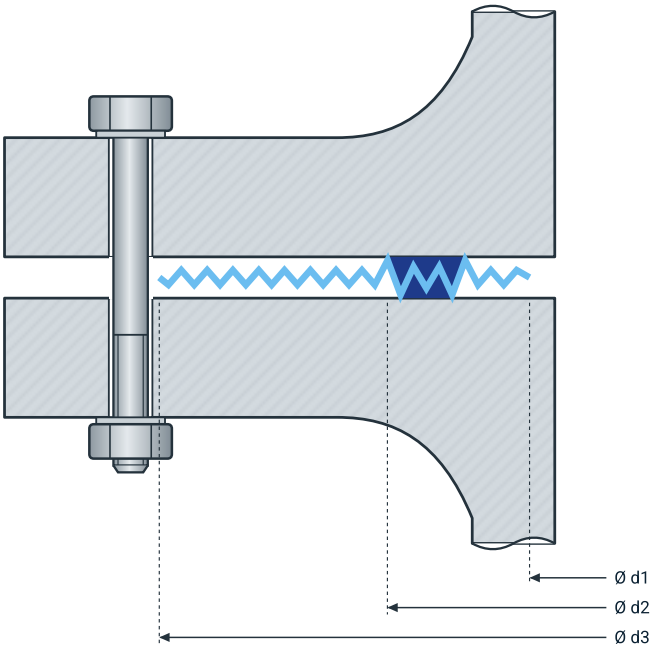
for flanges to DIN 2512 and EN 1514-1 TG

| [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 |

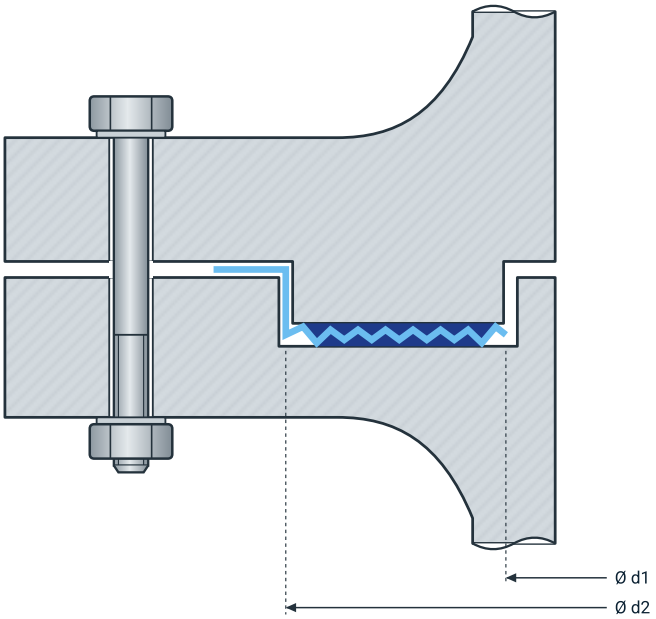
DN / inch = nominal size · d1 = inside diameter · d2 = outside diameter · The graphite width required for a gasket calculation is available for download on our website – revoseal.com · Total thickness 1.6 ± 0.1 mm · Design and calculation to revoseal company standard

## Dimensions

**Revolution**




**Revolution Tongue & Groove**



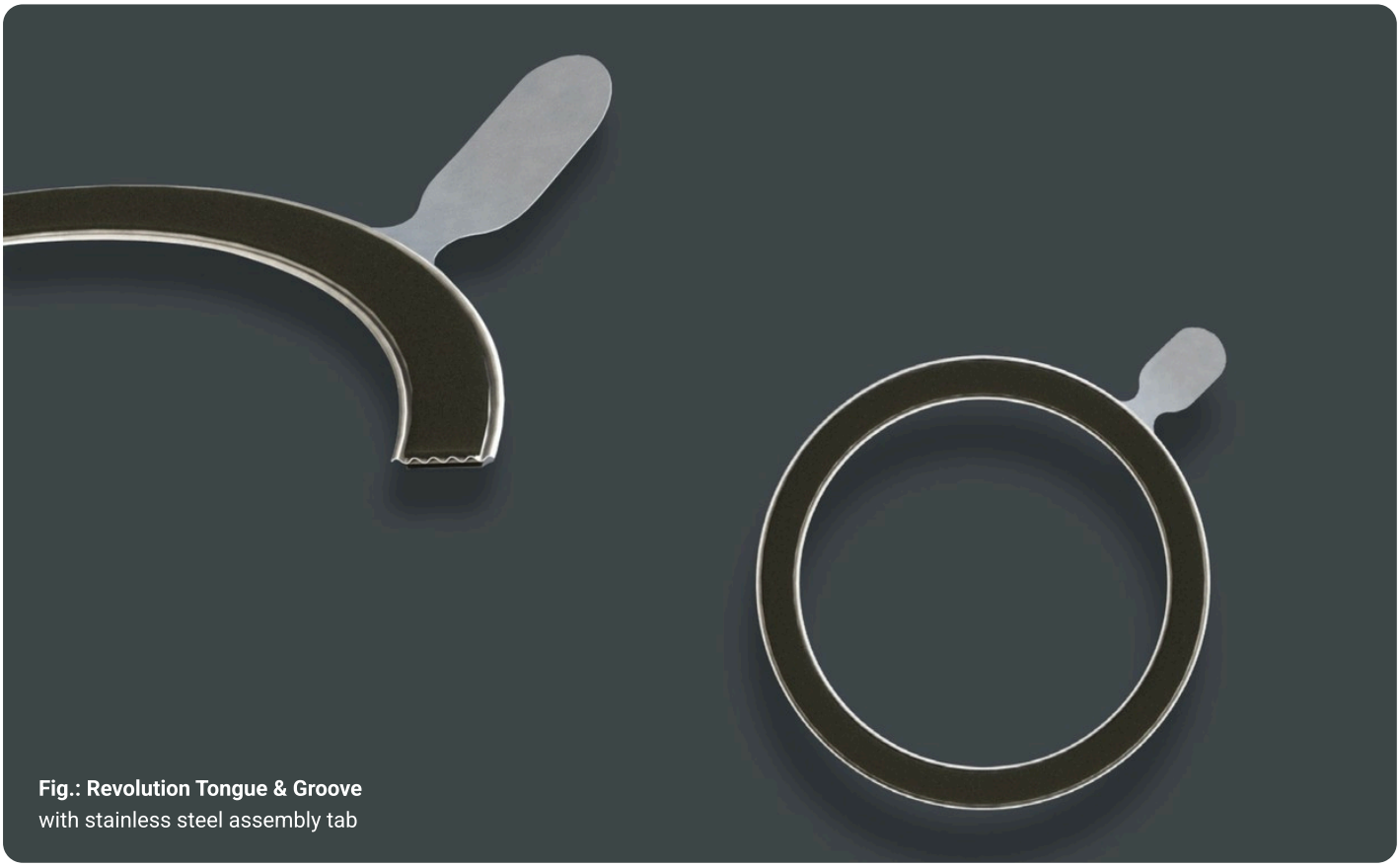



**Fig.: Revolution Tongue & Groove**
with stainless steel assembly tab