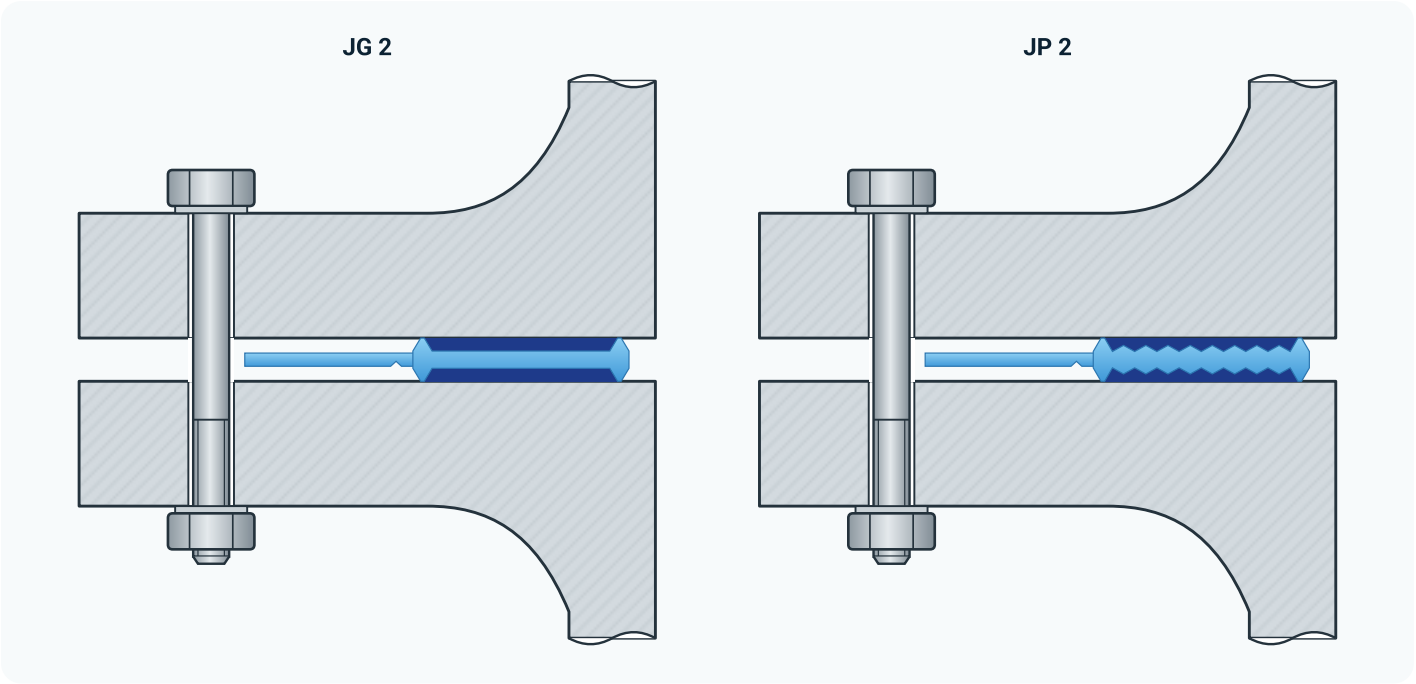
# Revoseal JG/JP Data Sheet

Encapsulated flat-profile gasket



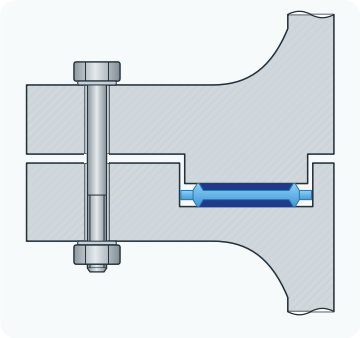
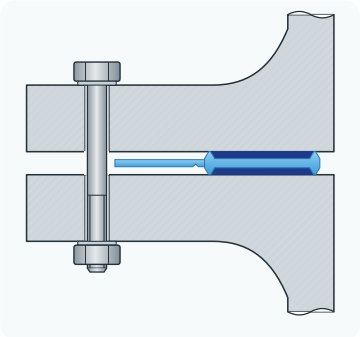
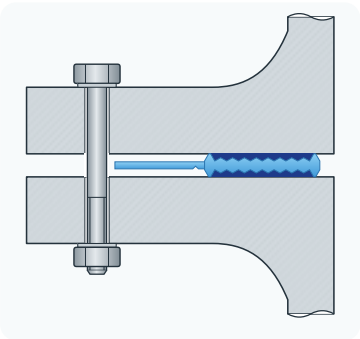
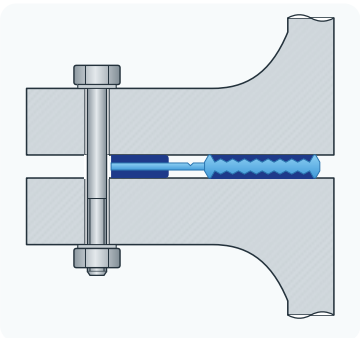
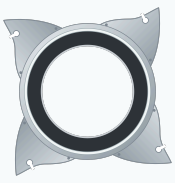

## PRODUCT DESCRIPTION

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**.<br>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. |
| **Vario** |  | JG and JP gaskets are also available with our Vario centering system. |

revoseal

# 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

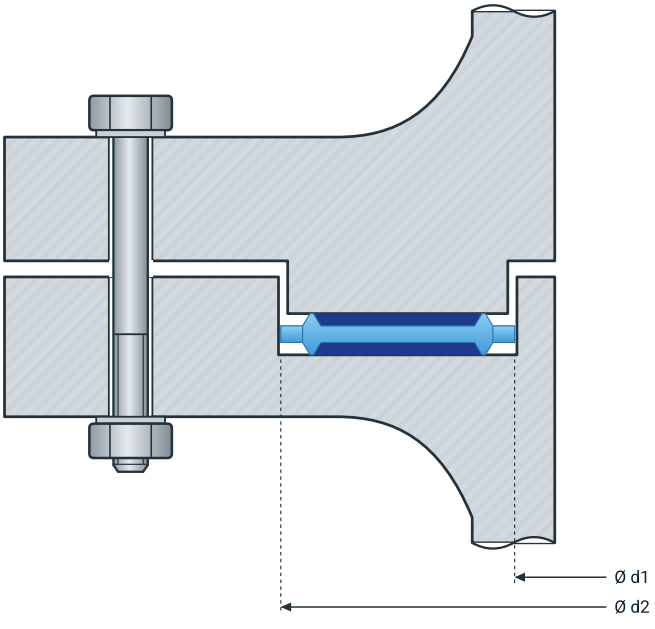
## Dimension table JG 1

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

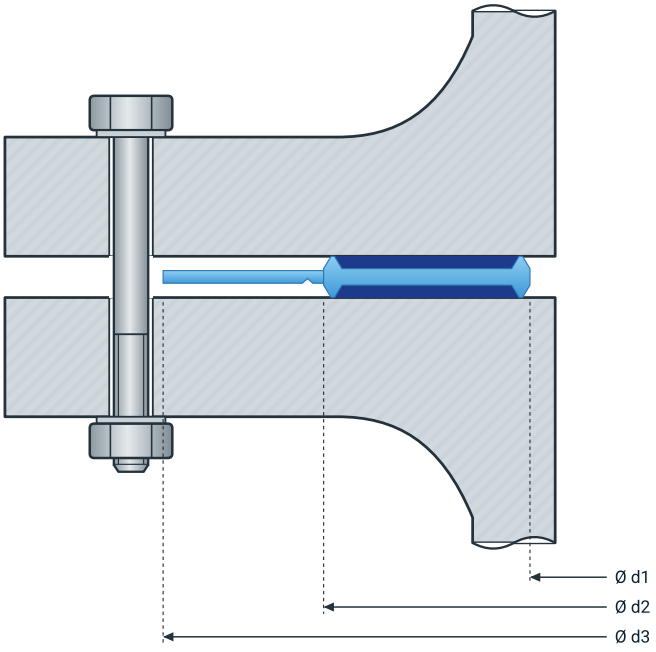
| DN | d1 | d2 | Thickness |
|---|---|---|---|
| 10 | 24 | 34 | 2 |
| 15 | 29 | 39 | 2 |
| 20 | 36 | 50 | 2 |
| 25 | 43 | 57 | 2 |
| 32 | 51 | 65 | 2 |
| 40 | 61 | 75 | 2 |
| 50 | 73 | 87 | 2 |
| 65 | 95 | 109 | 2 |
| 80 | 106 | 120 | 2 |
| 100 | 129 | 149 | 2.5 |
| 125 | 155 | 175 | 2.5 |
| 150 | 183 | 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



# Apparatus & Special Gaskets

For apparatus and special flanges, revoseal also manufactures high-quality gasket solutions precisely to customer specifications.

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

- Chemical and petrochemical industry
- 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 weak flange geometries, 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 in accordance with TA Luft, VDI 2290 to DIN EN 1591-1.

EXAMPLES OF SPECIAL GASKET GEOMETRIES



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



JP double gasket (with ports for leak detection sensors)

Gasket dimensions up to 4,000 mm are possible. For further technical features of our JG/JP gasket type, see pages 1 and 2.