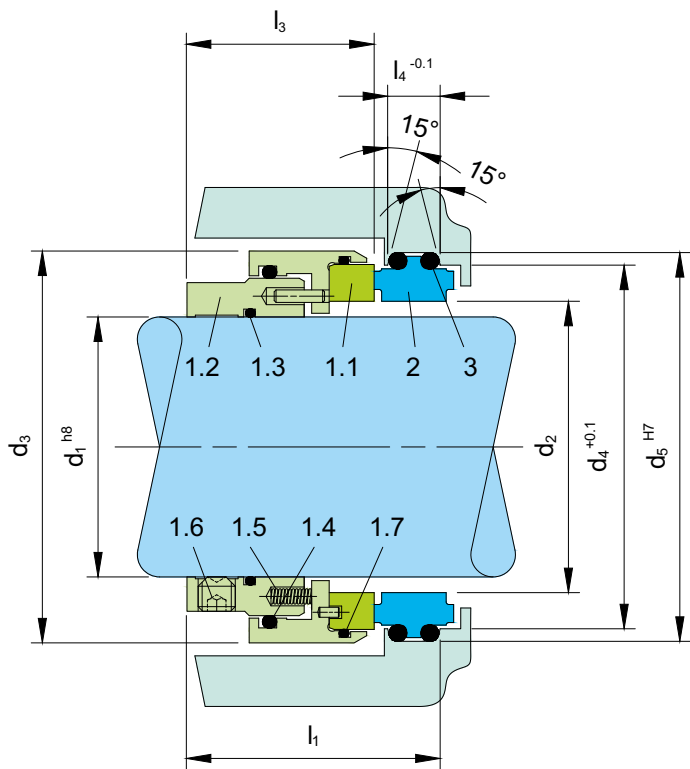


- Product Description**
- 1. Single seal in semi split configuration
  - 2. Balanced design
  - 3. Independent of direction of rotation
  - 4. For plain shafts
  - 5. Rotary unit with multiple springs

- Technical Features**
- 1. Economical to assemble as the complete dismantling of the equipment is not necessary to install the seal
  - 2. Reduces down time due to ease in installation
  - 3. Rugged seal construction
  - 4. Versatile split seat can be used on both the sides
  - 5. Springs are product protected to avoid contamination



**Note:** The item numbers as depicted above are based on our technical experience and knowledge and are placed in the chronological order of their assembly procedure.

| Item | Description                   |
|------|-------------------------------|
| 1.1  | Seal face <sup>1)</sup>       |
| 1.2  | Driver collar                 |
| 1.3  | O-ring <sup>1)</sup>          |
| 1.4  | O-ring <sup>1)</sup>          |
| 1.5  | Spring                        |
| 1.6  | Set screw                     |
| 1.7  | O-ring <sup>1)</sup>          |
| 2    | Stationary seat <sup>1)</sup> |
| 3    | O-ring <sup>1)</sup>          |

<sup>1)</sup> For disassembly of unsplit seal faces, seats and O-ring should be broken or cut.

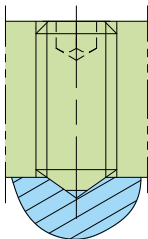
| Typical Industrial Applications |                       |
|---------------------------------|-----------------------|
| Agitators & mixers              | Shipbuilding          |
| Centrifugal pumps               | Stern tubes           |
| Chemical                        | Waste water treatment |
| Cooling water                   | Water turbines        |
| Defibrators                     |                       |
| Petrochemical                   |                       |
| Power plant technology          |                       |
| Pulp & paper                    |                       |
| Refiners                        |                       |
| Sea water desalination          |                       |

| Performance Capabilities |  |
|--------------------------|--|
| Sizes                    | d <sub>1</sub> = Upto 310mm (Upto 12.250") |
| Pressure                 | p <sub>1</sub> = 25 bar (363 PSI)          |
| Temperature              | t <sub>1</sub> = 150 °C (+302 °F)          |
| Speed                    | 20 m/s (66 ft/s)                           |

| Permissible Axial Movement |
|----------------------------|
| ± 2.0 mm                   |

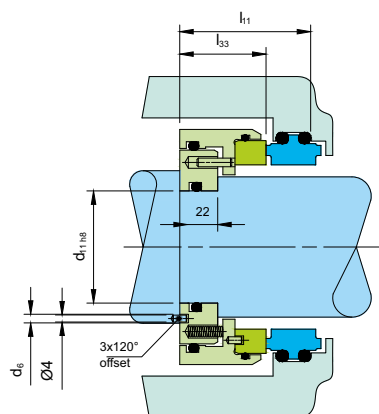
| Materials       |   |
|-----------------|---|
| Seal face       | Silicon carbide (Q1)  |
| Seat            | Silicon carbide (Q1, Q2), Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B) |
| Secondary seals | FKM (V), EPDM (E), NBR (P)  |
| Metal parts     | CrNiMo steel (G)  |

| Torque Transmissions |
|----------------------|
|----------------------|



d<sub>1</sub> ≥ 105 mm  
Set screws with cone points 4 x offset by 90°

## Design Variations



### BGH211

Dimensions, items and descriptions as BGH201. Item 1.2 driver collar is modified for securing on stepped shafts.

Unsplit as original equipment: Designation BGH210.

## Dimensional Data

Dimensions in millimeter

| d <sub>1</sub> | d <sub>11</sub> | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | d <sub>5</sub> | d <sub>6</sub> | l <sub>1</sub> | l <sub>11</sub> | l <sub>3</sub> | l <sub>33</sub> | l <sub>4</sub> | l <sub>8</sub> | R   | f | m <sub>x</sub> |
|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|----------------|----------------|-----|---|----------------|
| 50             | 40              | 60             | 95             | 80.5           | 89.6           | 55             | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 55             | 45              | 65             | 100            | 85.5           | 94.6           | 60             | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 60             | 50              | 70             | 105            | 90.5           | 99.6           | 65             | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 65             | 55              | 75             | 110            | 95.5           | 104.6          | 70             | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 70             | 60              | 80             | 115            | 100.5          | 109.6          | 75             | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 75             | 65              | 85             | 120            | 105.5          | 114.6          | 80             | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 80             | 70              | 90             | 125            | 110.5          | 119.6          | 85             | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 85             | 75              | 95             | 130            | 115.5          | 124.6          | 90             | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 90             | 80              | 100            | 135            | 120.5          | 129.6          | 95             | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 95             | 85              | 105            | 140            | 125.5          | 134.6          | 100            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 100            | 90              | 110            | 145            | 130.5          | 139.6          | 105            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 105            | 95              | 115            | 150            | 135.5          | 144.6          | 110            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 110            | 100             | 120            | 155            | 140.5          | 149.6          | 115            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 115            | 105             | 125            | 160            | 145.5          | 154.6          | 120            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 120            | 110             | 130            | 165            | 150.5          | 159.6          | 125            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 125            | 115             | 135            | 170            | 155.5          | 164.6          | 130            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 130            | 120             | 140            | 175            | 160.5          | 169.6          | 135            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 135            | 125             | 145            | 180            | 165.5          | 174.6          | 140            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 140            | 130             | 150            | 185            | 170.5          | 179.6          | 145            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 145            | 135             | 155            | 190            | 175.5          | 184.6          | 150            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 150            | 140             | 160            | 195            | 180.5          | 189.6          | 155            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 155            | 145             | 165            | 200            | 185.5          | 194.6          | 160            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 160            | 150             | 170            | 205            | 190.5          | 199.6          | 165            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 165            | 155             | 175            | 210            | 195.5          | 204.6          | 170            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 170            | 160             | 180            | 215            | 200.5          | 209.6          | 175            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 175            | 165             | 185            | 220            | 205.5          | 214.6          | 180            | 95.3           | 75.3            | 70             | 50              | 18.8           | 31.8           | 2.5 | 6 | M8             |
| 180            | 170             | 192            | 225            | 212.5          | 224.6          | 185            | 104.2          | 84.2            | 72             | 52              | 26.4           | 38.0           | 3.5 | 6 | M8             |
| 185            | 175             | 197            | 230            | 217.5          | 229.6          | 190            | 104.2          | 84.2            | 72             | 52              | 26.4           | 38.0           | 3.5 | 6 | M8             |
| 190            | 180             | 202            | 235            | 222.5          | 234.6          | 195            | 104.2          | 84.2            | 72             | 52              | 26.4           | 38.0           | 3.5 | 6 | M8             |
| 195            | 185             | 207            | 240            | 227.5          | 239.6          | 200            | 104.2          | 84.2            | 72             | 52              | 26.4           | 38.0           | 3.5 | 6 | M8             |
| 200            | 190             | 212            | 245            | 232.5          | 244.6          | 205            | 109.2          | 84.2            | 77             | 52              | 26.4           | 38.0           | 3.5 | 6 | M10            |
| 205            | 195             | 217            | 255            | 237.5          | 249.6          | 210            | 109.2          | 84.2            | 77             | 52              | 26.4           | 38.0           | 3.5 | 8 | M10            |
| 210            | 200             | 222            | 260            | 242.5          | 254.6          | 215            | 109.2          | 84.2            | 77             | 52              | 26.4           | 38.0           | 3.5 | 8 | M10            |
| 220            | 210             | 232            | 270            | 252.5          | 264.6          | 225            | 109.2          | 84.2            | 77             | 52              | 26.4           | 38.0           | 3.5 | 8 | M10            |
| 230            | 220             | 242            | 280            | 262.5          | 274.6          | 235            | 109.2          | 84.2            | 77             | 52              | 26.4           | 38.0           | 3.5 | 8 | M10            |
| 240            | 230             | 252            | 290            | 272.5          | 284.6          | 245            | 109.2          | 84.2            | 77             | 52              | 26.4           | 38.0           | 3.5 | 8 | M10            |
| 250            | 240             | 262            | 300            | 282.5          | 294.6          | 255            | 109.2          | 84.2            | 77             | 52              | 26.4           | 38.0           | 3.5 | 8 | M10            |
| 260            | 250             | 272            | 310            | 292.5          | 304.6          | 265            | 109.2          | 84.2            | 77             | 52              | 26.4           | 38.0           | 3.5 | 8 | M10            |
| 270            | 260             | 282            | 320            | 302.5          | 314.6          | 275            | 109.2          | 84.2            | 77             | 52              | 26.4           | 38.0           | 3.5 | 8 | M10            |
| 280            | 270             | 292            | 330            | 312.5          | 324.6          | 285            | 109.2          | 84.2            | 77             | 52              | 26.4           | 38.0           | 3.5 | 8 | M10            |
| 290            | 280             | 302            | 340            | 322.5          | 334.6          | 295            | 109.2          | 84.2            | 77             | 52              | 26.4           | 38.0           | 3.5 | 8 | M10            |
| 300            | 290             | 312            | 350            | 332.5          | 344.6          | 305            | 109.2          | 84.2            | 77             | 52              | 26.4           | 38.0           | 3.5 | 8 | M10            |
| 310            | 300             | 322            | 360            | 342.5          | 354.6          | 315            | 109.2          | 84.2            | 77             | 52              | 26.4           | 38.0           | 3.5 | 8 | M10            |

d<sub>1</sub> > 310 on request

inch size available from size 2.000 to 12.250

Note: Additional technical & dimensional information will be provided on request.

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