



|               |                   |
|---------------|-------------------|
| Part Number   | <b>M90X110X10</b> |
| Series        | M                 |
| Drain Grooves | Yes               |

**Material**

|            |          |
|------------|----------|
| Inner Ring | Steel    |
| Outer Ring | Aluminum |

**Shaft & Housing Tolerances**

|                         |  |
|-------------------------|--|
| Shaft Tolerance         | h6   |
| Housing Tolerance       | K7   |
| Shaft & Housing Surface | $R_z \leq 16\mu\text{m}$ ; $R_a \leq 3.2\mu\text{m}$ |
| Shaft & Housing Chamfer | 1.0 mm x 15°   |

**Dimensions**

|                              |               |       |
|------------------------------|---------------|-------|
| Bore Diameter                | d [mm]        | 90    |
| Outer Diameter               | D [mm]        | 110   |
| Width                        | B [mm]        | 10    |
| Gap Diameter                 | e [mm]        | 105.0 |
| Axial Clearance <sup>1</sup> | $S_{ax}$ [mm] | 0.42  |
| Drain Groove Width           | c [mm]        | 3.0   |

**Misc. Data**

|                        |       |           |
|------------------------|-------|-----------|
| Weight                 | [kg]  | 0.180     |
| Max Speed <sup>2</sup> | [rpm] | 12,300    |
| Temperature Range      | [°C]  | -40 – 200 |

**Notes:**

1. Axial Clearance ( $S_{ax}$ ) = The total axial movement of the seal's inner ring in relation to the outer ring in the axial direction.
2. The stated speed value is contingent on utilizing specified tolerances, correct installation techniques, and an operating temperature below the specified maximum.