



| Max. Operating Conditions* | |
|----------------------------|---------------------------------------------------------------------------------------------|
| Temperature (°C) | - 30 / + 110 / + 200 |
| Speed (m/s) | ≤ 15 (2)** |
| Media: | Hydraulic fluids upon oil-basis, hardly inflaming hydraulic fluids, HFA-, HFB-Liquids |

| Recommended Surface Finish | | |
|----------------------------|---------------------|--------------------|
| Surface roughness | R_a | R_t |
| Groove bottom | ≤ 1,6 μm | ≤ 16 μm |
| Groove flanks | ≤ 1,6 μm | ≤ 16 μm |
| Running surface | ≤ 0,3 μm | ≤ 3 μm |

| Material | |
|----------------------------------------------------------|-------------|
| PTFE-bronze / -carbon / glass fiber (+MoS ₂) | PB/PK/PG(M) |
| PTFE-compound turquoise | PT |
| PTFE-Econol | PEK |
| Polyurethane | PU ** |

Technical Description

The wiper/scraper ring **W7** consists of a wiping element preset by an elastomer ring.

The PTFE material stands out for excellent sliding characteristics, low attrition rate as well as high extrusion resistance.

The thermal and chemical stability of the PTFE material allows for the use in a wide range of applications.

The wiper/scraper ring **W7** is also available in polyurethane with a hardness of app. 72° shore D. It is appropriate for exceptionally rough duty applications to wipe off even strongly adherent dirt.

The standard material of the **W7** is PTFE + bronze with an O-ring in NBR 70° shore A.

***Max. operating conditions:**

The instance of application and service conditions are decisive for the choice of the PTFE-compound, respectively of the material qualities. Temperature range and chemical stability depending on chosen O-ring material.

| Type designation | ∅ d | ∅ D | L | ∅ D ₁ | O-ring |
|------------------|-----|------|-----|------------------|--------|
| W7 - 10 - PB | 10 | 14,8 | 3,7 | 12,7 | 013 |
| W7 - 20 - PB | 20 | 26,8 | 5,0 | 23,5 | 118 |
| W7 - 22 - PB | 22 | 28,8 | 5,0 | 25,5 | 119 |
| W7 - 25 - PB | 25 | 31,8 | 5,0 | 28,5 | 121 |
| W7 - 28 - PB | 28 | 34,8 | 5,0 | 31,5 | 123 |
| W7 - 30 - PB | 30 | 36,8 | 5,0 | 33,5 | 124 |
| W7 - 32 - PB | 32 | 38,8 | 5,0 | 35,5 | 126 |
| W7 - 35 - PB | 35 | 41,8 | 5,0 | 38,5 | 127 |
| W7 - 36 - PB | 36 | 42,8 | 5,0 | 39,5 | 129 |
| W7 - 38 - PB | 38 | 44,8 | 5,0 | 41,5 | 130 |
| W7 - 40 - PB | 40 | 46,8 | 5,0 | 43,5 | 131 |
| W7 - 42 - PB | 42 | 48,8 | 5,0 | 45,5 | 132 |
| W7 - 45 - PB | 45 | 51,8 | 5,0 | 48,5 | 134 |
| W7 - 48 - PB | 48 | 54,8 | 5,0 | 51,5 | 136 |
| W7 - 50 - PB | 50 | 56,8 | 5,0 | 53,5 | 137 |
| W7 - 52 - PB | 52 | 58,8 | 5,0 | 55,5 | 138 |
| W7 - 55 - PB | 55 | 61,8 | 5,0 | 58,5 | 140 |
| W7 - 56 - PB | 56 | 62,8 | 5,0 | 59,5 | 141 |
| W7 - 60 - PB | 60 | 66,8 | 5,0 | 63,5 | 143 |
| W7 - 63 - PB | 63 | 69,8 | 5,0 | 66,5 | 145 |
| W7 - 65 - PB | 65 | 73,8 | 6,0 | 69,0 | 231 |
| W7 - 70 - PB | 70 | 78,8 | 6,0 | 74,0 | 233 |
| W7 - 75 - PB | 75 | 83,8 | 6,0 | 79,0 | 234 |
| W7 - 80 - PB | 80 | 88,8 | 6,0 | 84,0 | 236 |
| W7 - 85 - PB | 85 | 93,8 | 6,0 | 89,0 | 238 |
| W7 - 90 - PB | 90 | 98,8 | 6,0 | 94,0 | 239 |

Wiper/Scraper ring Type

Dimension

Material/Type

Ordering example: Wiper/Scraper Ring ∅ d 40 x 46,8 x 5,0 PTFE-bronze
Order designation: W7 - 40 x 46,8 x 5,0 - PB
Designation of material:

 (Standard O-ring: NBR, Viton,
EPDM, Silicone feasible)

- PB** - PTFE-bronze
- PK** - PTFE-carbon
- PG(M)** - PTFE-glass fiber (+MoS₂)
- PU** - Polyurethane
- PT** - PTFE compound turquoise
- PEK** - PTFE-Econol

| Type designation | ∅ d | ∅ D | L | ∅ D ₁ | O-ring |
|------------------|-----|-------|-----|------------------|--------|
| W7 - 95 - PB | 95 | 103,8 | 6,0 | 99,0 | 241 |
| W7 - 100 - PB | 100 | 108,8 | 6,0 | 104,0 | 242 |
| W7 - 105 - PB | 105 | 113,8 | 6,0 | 109,0 | 244 |
| W7 - 110 - PB | 110 | 118,8 | 6,0 | 114,0 | 245 |
| W7 - 115 - PB | 115 | 123,8 | 6,0 | 119,0 | 247 |
| W7 - 120 - PB | 120 | 128,8 | 6,0 | 124,0 | 248 |
| W7 - 125 - PB | 125 | 133,8 | 6,0 | 129,0 | 250 |
| W7 - 130 - PB | 130 | 138,8 | 6,0 | 134,0 | 252 |
| W7 - 135 - PB | 135 | 143,8 | 6,0 | 139,0 | 253 |
| W7 - 140 - PB | 140 | 148,8 | 6,0 | 144,0 | 255 |
| W7 - 150 - PB | 150 | 158,8 | 6,0 | 154,0 | 258 |
| W7 - 155 - PB | 155 | 163,8 | 6,0 | 159,0 | 259 |
| W7 - 160 - PB | 160 | 168,8 | 6,0 | 164,0 | 259 |
| W7 - 170 - PB | 170 | 178,8 | 6,0 | 174,0 | 261 |
| W7 - 175 - PB | 175 | 183,8 | 6,0 | 179,0 | 262 |
| W7 - 180 - PB | 180 | 188,8 | 6,0 | 184,0 | 263 |
| W7 - 190 - PB | 190 | 198,8 | 6,0 | 194,0 | 264 |
| W7 - 200 - PB | 200 | 208,8 | 6,0 | 204,0 | 266 |
| W7 - 210 - PB | 210 | 218,8 | 6,0 | 214,0 | 267 |
| W7 - 220 - PB | 220 | 228,8 | 6,0 | 224,0 | 269 |
| W7 - 230 - PB | 230 | 238,8 | 6,0 | 234,0 | 270 |
| W7 - 240 - PB | 240 | 248,8 | 6,0 | 244,0 | 272 |
| W7 - 250 - PB | 250 | 258,8 | 6,0 | 254,0 | 274 |
| W7 - 260 - PB | 260 | 272,2 | 8,4 | 264,5 | 377 |
| W7 - 270 - PB | 270 | 282,2 | 8,4 | 274,5 | 378 |
| W7 - 280 - PB | 280 | 292,2 | 8,4 | 284,5 | 379 |
| W7 - 290 - PB | 290 | 302,2 | 8,4 | 294,5 | 380 |
| W7 - 300 - PB | 300 | 312,2 | 8,4 | 304,5 | 381 |

Further dimension and in-between sizes upon request.