

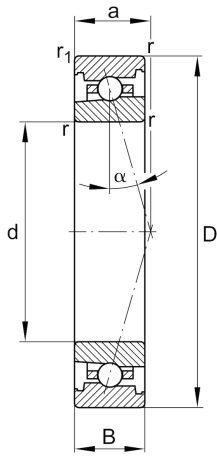
FAG

HS71916-E-T-P4S-UL

Angular contact ball bearing

Spindle bearings HS719..-E, adjusted, in pairs or sets, contact angle $\alpha = 15^\circ$, restricted tolerances

Technical information



Main Dimensions & Performance Data

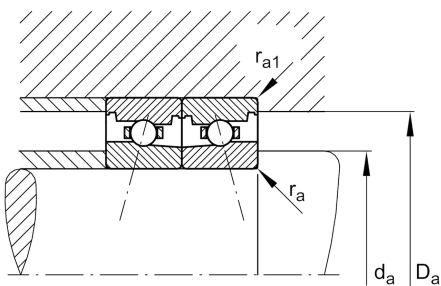
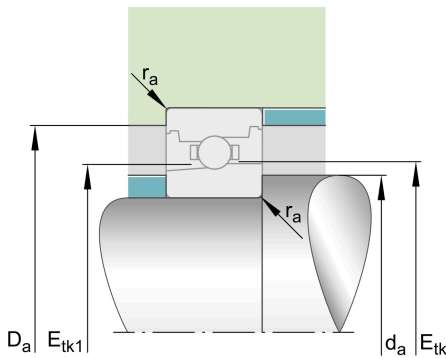
| | | |
|------------------------|--------------|---------------------------------------|
| d | 80 mm | Bore diameter |
| D | 110 mm | Outside diameter |
| B | 16 mm | Width |
| C_r | 19.200 N | Basic dynamic load rating, radial |
| C_{0r} | 14.600 N | Basic static load rating, radial |
| C_{ur} | 1.550 N | Fatigue load limit, radial |
| $n_{G \text{ Grease}}$ | 15.000 1/min | Limiting speed for grease lubrication |
| $n_{G \text{ Oil}}$ | 24.000 1/min | Limiting speed for oil lubrication |
| $\approx m$ | 0,363 kg | Weight |

Mounting dimensions

| | | |
|-----------------------|---------|---|
| d_a | 86 mm | Diameter shaft shoulder |
| d_a | h12 | Diameter shaft shoulder clearance |
| D_a | 104 mm | Shoulder diameter outer ring |
| D_a | H12 | Shoulder diameter outer ring clearance |
| $r_{a \text{ max}}$ | 0,6 mm | Maximum recess radius |
| $r_{a1 \text{ max}}$ | 0,3 mm | Maximum recess radius |
| $E_{tk \text{ min}}$ | 91 mm | Minimum diameter injection pitch |
| $E_{tk \text{ max}}$ | 92,5 mm | Maximum diameter injection pitch |
| $E_{tk1 \text{ min}}$ | 88,5 mm | Minimum diameter injection pitch |
| $E_{tk1 \text{ max}}$ | 92,5 mm | Maximum diameter injection pitch |
| a | 30,1 mm | Distance between the apexes of the pressure cones |

Dimensions

| | | |
|---------------------|------|---------------------------|
| r_{min} | 1 mm | Minimum chamfer dimension |
| $r_{1 \text{ min}}$ | 1 mm | Minimum chamfer dimension |
| α | 25 ° | Contact angle |





Temperature range

| | | |
|-----------|--------|----------------------------|
| T_{min} | -30 °C | Operating temperature min. |
| T_{max} | 100 °C | Operating temperature max. |

Additional information

| | | |
|-----------|----------|-----------------------|
| F_{VL} | 113 N | Preload force light |
| F_{VM} | 338 N | Preload force medium |
| F_{VH} | 676 N | Preload force heavy |
| K_{aEL} | 325 N | Lift-off force light |
| K_{aEM} | 992 N | Lift-off force medium |
| K_{aEH} | 2.023 N | Lift-off force heavy |
| C_{aL} | 130 N/μm | Axial rigidity light |
| C_{aM} | 194 N/μm | Axial rigidity medium |
| C_{aH} | 252 N/μm | Axial rigidity heavy |