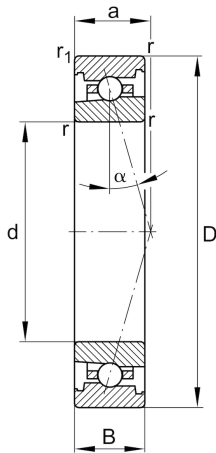
**FAG****HS71914-E-T-P4S-UL**

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**

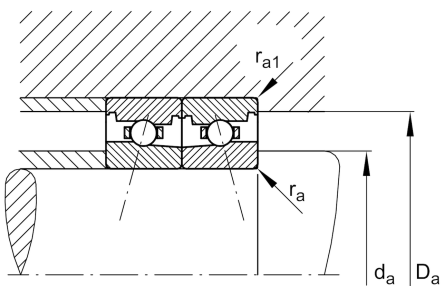
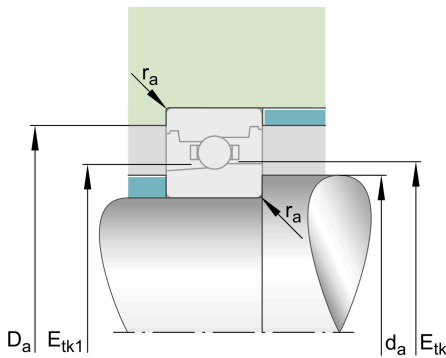
d	70 mm	Bore diameter
D	100 mm	Outside diameter
B	16 mm	Width
$C_r$	16.800 N	Basic dynamic load rating, radial
$C_{0r}$	12.200 N	Basic static load rating, radial
$C_{ur}$	1.290 N	Fatigue load limit, radial
$n_{G \text{ Grease}}$	17.000 1/min	Limiting speed for grease lubrication
$n_{G \text{ Oil}}$	26.000 1/min	Limiting speed for oil lubrication
$\approx m$	0,338 kg	Weight

**Mounting dimensions**

$d_a$	76 mm	Diameter shaft shoulder
$d_a$	h12	Diameter shaft shoulder clearance
$D_a$	94,5 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
$E_{tk \text{ min}}$	81,2 mm	Minimum diameter injection pitch
$E_{tk \text{ max}}$	82,6 mm	Maximum diameter injection pitch
$E_{tk1 \text{ min}}$	78,8 mm	Minimum diameter injection pitch
$E_{tk1 \text{ max}}$	82,6 mm	Maximum diameter injection pitch
a	27,8 mm	Distance between the apexes of the pressure cones

**Dimensions**

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





### Temperature range

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

### Additional information

$F_{VL}$	99 N	Preload force light
$F_{VM}$	298 N	Preload force medium
$F_{VH}$	597 N	Preload force heavy
$K_{aEL}$	287 N	Lift-off force light
$K_{aEM}$	877 N	Lift-off force medium
$K_{aEH}$	1.789 N	Lift-off force heavy
$C_{aL}$	118 N/μm	Axial rigidity light
$C_{aM}$	176 N/μm	Axial rigidity medium
$C_{aH}$	229 N/μm	Axial rigidity heavy