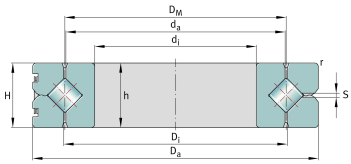
SX011818-A-R+4/-8

Crossed roller bearing

Crossed roller bearingsdimension series 18 to DIN 616

Technical information



Your current product variant

Preload	R+4/-8	Equals RL0 standard

Main Dimensions & Performance Data

d_1	90 mm	Bore Diameter
	0,004 mm	Bore diameter upper tolerance
	-0,018 mm	Bore diameter lower tolerance
D_a	115 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0,022 mm	Outside diameter lower tolerance
H	13 mm	Height of the assembled bearing
h_i	13 mm	Height inner ring
	0,06 mm	Width upper tolerance
	-0,06 mm	Width lower tolerance
≈m	364 g	Weight

Dimensions

D_i	102,5 mm	Inner diameter outer ring
D_M	102 mm	Rolling element pitch circle diameter
d_a	101,5 mm	Outer diameter inner ring
h	13 mm	Height of individual ring
	0 mm	Height of individual ring upper tolerance
	-0,01 mm	Height of individual ring lower tolerance
r_{min}	1 mm	Chamfer dimension
S	1,2 mm	Diameter of lubrication hole

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	80 °C	Operating temperature max.

Calculation factors

	0,01 mm	Running accuracy, radial
	0,01 mm	Running accuracy, axial
RLO_{max}	0,003 mm	Low clearance: Radial clearance
RLO_{max}	0,006 mm	Low clearance: Preload
C_a	26.500 N	Basic dynamic load rating, axial
C_{0a}	87.000 N	Basic static load rating, axial
C_r	18.900 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	43.000 N	Basic static load rating, radial (for radial load only)
$N_{G\ oil}$	1.500 1/min	Limiting speed for oil lubrication with normal clearance
N_G Grease	750 1/min	Limiting speed for grease lubrication with normal clearance
$N_{G\ oil}$	750 1/min	Limiting speed for oil lubrication with preload
N_G Grease	375 1/min	Limiting speed for grease lubrication with preload
	61818	Dimensions identical to ISO dimension series 18

Characteristics

Radial load

Axial load in one direction

Axial load in two directions


Grease Lubrication


Oil Lubrication


Not sealed


Small design envelope