

# 16019 SKF dynamic load capacity: 44.9 kN 145x95x16mm Deep groove ball bearings

Bearing number	16019
Size (mm)	145x95x16
Brand	SKF
Bore Diameter (mm)	145
Outer Diameter (mm)	95
Width (mm)	16
d	95 mm
D	145 mm
B	16 mm
$d_1$	111.7 mm
$D_1$	128.2 mm
$r_{1,2}$ – min.	1 mm
$d_a$ – min.	99.6 mm
$D_a$ – max.	140 mm
$r_a$ – max.	1 mm
Basic dynamic load rating – C	44.9 kN
Basic static load rating – $C_0$	41.5 kN
Fatigue load limit – $P_u$	1.6 kN
Reference speed	9500 r/min
Limiting speed	6000 r/min
Calculation factor – $k_r$	0.02
Calculation factor – $f_0$	16.4

Category	Single Row Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.924
EAN	7316577015983
Product Group – BDI	B00308
Enclosure	Open
Precision Class	ABEC 1   ISO P0
Maximum Capacity / Filling Slot	No
Rolling Element	Ball Bearing
Snap Ring	No
Internal Special Features	No
Cage Material	Steel
Internal Clearance	C0-Medium
Inch – Metric	Metric
Long Description	95MM Bore; 145MM Outside Diameter; 16MM Outer Race Diameter; Open; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; No Internal Special Features
Category – BDI	Single Row Ball Bearing
UNSPSC	31171504
Harmonized Tariff Code	8482.10.50.68
Noun	Bearing
Keyword String	Ball
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	16019
Weight / LBS	2.035

Bore	3.74 Inch   95 Millimeter
Outside Diameter	5.709 Inch   145 Millimeter
Outer Race Width	0.63 Inch   16 Millimeter
bore diameter:	95 mm
static load capacity:	41.5 kN
outside diameter:	145 mm
precision rating:	Not Rated
overall width:	16 mm
finish/coating:	Uncoated
bore type:	Round
cage material:	Steel
closure type:	Open
outer ring width:	16 mm
row type & fill slot:	Single Row Non-Fill Slot
fillet radius:	1 mm
snap ring included:	Without Snap Ring
maximum rpm:	6000 RPM
internal clearance:	C0
series:	16
dynamic load capacity:	44.9 kN
$d_1 \approx$	111.7 mm
$D_1 \approx$	128.2 mm
$r_{1,2} \text{ min.}$	1 mm
$d_a \text{ min.}$	99.6 mm
$D_a \text{ max.}$	140 mm
$r_a \text{ max.}$	1 mm
Basic dynamic load rating C	44.9 kN
Basic static load rating $C_0$	41.5 kN

Fatigue load limit $P_u$	1.63 kN
Calculation factor $k_r$	0.02
Calculation factor $f_\theta$	16.4
Mass bearing	0.89 kg