

# INA BCE3216 needle roller bearings

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Series	53000
Cone Part Number	53150
Cup Part Number	53390D
Design Units	Imperial
Bearing Weight	4.92 lb
Cage Type	Stamped Steel
Ab – Cage-Cone Frontface Clearance	0.12 in
d	1.5 in
D	3.8750 in
B – Cone Width	1.1142 in
C – Double Cup Width	1.7500 in
T – Bearing Width across Cones	2.5625 in
R – Cone Backface To Clear Radius <sup>1</sup>	0.06 in
r – Cup Frontface To Clear Radius <sup>2</sup>	0.06 in
db – Cone Backface Backing Diameter	2.17 in
Da – Cup Frontface Backing Diameter	3.56 in
Aa – Cage-Cone Backface Clearance	0.19 in
C90 – Dynamic Radial Rating (One-Row, 90 million revolutions) <sup>3</sup>	6920 lbf
C1 – Dynamic Radial Rating (Two-Row, 1 million revolutions) <sup>4</sup>	46500 lbf

C90(2) – Dynamic Radial Rating (Two-Row, 90 million revolutions) <sup>5</sup>	12000 lbf
Ca90 – Dynamic Thrust Rating (90 million revolutions) <sup>6</sup>	8760 lbf
K – Factor <sup>7</sup>	0.79
e – ISO Factor <sup>8</sup>	0.74
Y1 – ISO Factor <sup>9</sup>	0.91
Y2 – ISO Factor <sup>10</sup>	1.36
Cg – Geometry Factor <sup>11</sup>	0.093