

# NBS RNA 4903 2RS needle roller bearings

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Cone Part Number	HH421246CV
Design Units	Imperial
Cage Type	Stamped Steel
C1 – Dynamic Radial Rating (Two-Row, 1 million revolutions) <sup>1</sup>	246000 lbf
C90(2) – Dynamic Radial Rating (Two-Row, 90 million revolutions) <sup>2</sup>	63800 lbf
d	3.8750 in
B – Cone Width	2.5 in
R – Cone Backface To Clear Radius <sup>3</sup>	0.25 in
da – Cone Frontface Backing Diameter	4.53 in
db – Cone Backface Backing Diameter	5 in
Ab – Cage-Cone Frontface Clearance	0.15 in
Aa – Cage-Cone Backface Clearance	0.1 in
a – Effective Center Location <sup>4</sup>	-0.66 in
C90 – Dynamic Radial Rating (90 million revolutions) <sup>5</sup>	36600 lbf
C1 – Dynamic Radial Rating (1 million revolutions) <sup>6</sup>	141000 lbf
C0 – Static Radial Rating	174000 lbf

Ca90 – Dynamic Thrust Rating (90 million revolutions) <sup>7</sup>	23500 lbf
K – Factor <sup>8</sup>	1.56
G1 – Heat Generation Factor (Roller-Raceway)	298.2
G2 – Heat Generation Factor (Rib-Roller End)	40.9
Cg – Geometry Factor	0.116