

# NSK 45BER20HV1V angular contact ball bearings

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Series	775
Cone Part Number	780
Design Units	Imperial
Cage Type	Stamped Steel
C1 – Dynamic Radial Rating (Two-Row, 1 million revolutions) <sup>1</sup>	135000 lbf
C90(2) – Dynamic Radial Rating (Two-Row, 90 million revolutions) <sup>2</sup>	35100 lbf
d	4.0000 in
B – Cone Width	1.8900 in
R – Cone Backface To Clear Radius <sup>3</sup>	0.14 in
da – Cone Frontface Backing Diameter	4.45 in
db – Cone Backface Backing Diameter	4.69 in
Ab – Cage-Cone Frontface Clearance	0.07 in
Aa – Cage-Cone Backface Clearance	0.13 in
a – Effective Center Location <sup>4</sup>	-0.32 in
C90 – Dynamic Radial Rating (90 million revolutions) <sup>5</sup>	20200 lbf
C1 – Dynamic Radial Rating (1 million revolutions) <sup>6</sup>	77800 lbf
C0 – Static Radial Rating	111000 lbf
Ca90 – Dynamic Thrust Rating (90 million revolutions) <sup>7</sup>	13300 lbf

K – Factor8	1.51
G1 – Heat Generation Factor (Roller-Raceway)	227.3
G2 – Heat Generation Factor (Rib-Roller End)	41.3
Cg – Geometry Factor	0.107