


The Timken Company

4500 Mt Pleasant St. NW

N. Canton, OH 44720

Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number QAC20A100S, Single Concentric Piloted Flange Cartridge



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Specifications

Engineering Group	Mounted Bearing
Bearing Number	22220
Shaft Size	100 mm
Shaft Size Type	Metric
Full Timken Part Number	QAC20A100SB QAC20A100SC QAC20A100SEB QAC20A100SEC QAC20A100SEM QAC20A100SEN QAC20A100SEO QAC20A100SET QAC20A100SM QAC20A100SN QAC20A100SO QAC20A100ST



Locking Style	Single Concentric
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Housing Construction	Piloted Flange Cartridge
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UPC Code	0883450304900
	0883450304917
	0883450304924
	0883450304931
	0883450304948
	0883450304955
	0883450304962
	0883450304979
	0883450304986
	0883450304993
0883450305006	
0883450305013	

Dimensions

Dimension BC	9.38 in 238.3 mm
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Dimension B Exp	2.93 in 74.4 mm
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Dimension B Fix	2.84 in 72.1 mm
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Dimension C	6 in 152.4 mm
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Dimension D	8.13 in 206.5 mm
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Dimension E	6.63 in 168.4 mm
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Dimension F	10.88 in 276.4 mm
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Dimension G	8.125 in 206.4 mm
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Dimension H	1 in 25.4 mm
Dimension J (Bolt Size)	0.75 in 20 mm
Dimension KA	1.63 in 41.4 mm
Dimension L Exp	5.05 in 128.3 mm
Dimension L Fix	4.97 in 126.2 mm
Dimension M	2.97 in 75.4 mm
Dimension N	2.13 in 54.1 mm
Dimension RA	0.37 in 9.4 mm
Dimension SA	4.59 in 116.6 mm

Radial and Thrust Factors

C0 - Static Load	113000 lbf 502000 N
C - Dynamic Load (Basic)	97700 lbf 435000 N
e - Geometry Factor	0.24
Y1 - Geometry Factor	2.85
Y2 - Geometry Factor	4.24

Engineering Seal Speed

Oil Lubrication - M/N Seal	1200 rpm
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Oil Lubrication - T Seal	2000 rpm
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Oil Lubrication - B/C/O Seal	900 rpm
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Grease Lubrication - M/N Seal	1200 rpm
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Grease Lubrication - T Seal	1600 rpm
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Grease Lubrication - B/C/O Seal	900 rpm
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Engineering Bearing Attributes

Float	0.083 in 2.108 mm
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Shaft Tolerance	0.0030 in 0.076 mm
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Engineering Internal Radial Clearance

Eng Internal Radial Clearance - Min	0.0030
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Eng Internal Radial Clearance - Max	0.0047
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Pre Install Clearance Min	0.0030 in 0.075 mm
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Pre Install Clearance Max	0.0047 in 0.120 mm
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