


**The Timken Company**

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## Part Number QACW20A400S, Single Concentric Piloted Flange Cartridge



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## Specifications

**Engineering Group** Mounted Bearing

**Bearing Number** 22220

**Shaft Size** 4 in

**Shaft Size Type** Imperial

**Full Timken Part Number**

- QACW20A400SB
- QACW20A400SC
- QACW20A400SEB
- QACW20A400SEC
- QACW20A400SEM
- QACW20A400SEN
- QACW20A400SEO
- QACW20A400SET
- QACW20A400SM
- QACW20A400SMNG
- QACW20A400SN
- QACW20A400SO
- QACW20A400ST



<b>Locking Style</b>	Single Concentric
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<b>Housing Construction</b>	Piloted Flange Cartridge
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<b>UPC Code</b>	0883450037709
	0883450037716
	0883450037730
	0883450037747
	0883450037754
	0883450037761
	0883450037778
	0883450037785
	0883450193962
	0883450194129
	0883450271134
0883450271295	
0883450433532	

## Dimensions

<b>Dimension BC</b>	9.38 in 238.3 mm
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<b>Dimension B Exp</b>	2.58 in 65.5 mm
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<b>Dimension B Fix</b>	2.5 in 63.5 mm
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<b>Dimension C</b>	6 in 152.4 mm
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<b>Dimension D</b>	8.13 in 206.5 mm
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<b>Dimension E</b>	6.63 in 168.4 mm
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<b>Dimension F</b>	10.88 in 276.4 mm
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<b>Dimension G</b>	8.125 in 206.4 mm
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<b>Dimension H</b>	1 in 25.4 mm
<b>Dimension J (Bolt Size)</b>	0.75 in 20 mm
<b>Dimension KA</b>	1.63 in 41.4 mm
<b>Dimension L Exp</b>	4.83 in 122.7 mm
<b>Dimension L Fix</b>	4.75 in 120.7 mm
<b>Dimension M</b>	2.97 in 75.4 mm
<b>Dimension N</b>	2.25 in 57.2 mm
<b>Dimension RA</b>	0.16 in 4.1 mm
<b>Dimension SA</b>	4.59 in 116.6 mm

## Radial and Thrust Factors

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

## Engineering Seal Speed

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

<b>Float</b>	0.083 in 2.108 mm
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<b>Shaft Tolerance</b>	0.0030 in 0.076 mm
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## Engineering Internal Radial Clearance

<b>Eng Internal Radial Clearance - Min</b>	0.0030
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<b>Eng Internal Radial Clearance - Max</b>	0.0047
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<b>Pre Install Clearance Min</b>	0.0030 in 0.075 mm
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<b>Pre Install Clearance Max</b>	0.0047 in 0.120 mm
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