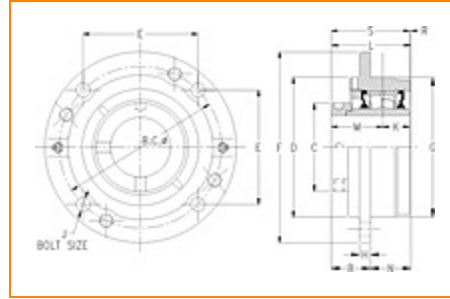


**TIMKEN****The Timken Company**

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**Phone:** (234) 262-3000**E-Mail:** [CustomerCAD@timken.com](mailto:CustomerCAD@timken.com) • **Web site:** [www.timken.com](http://www.timken.com)**Part Number QMCW20J400S, Eccentric Piloted Flange Cartridge**

[Specifications](#) | [Dimensions](#) | [Radial and Thrust Factors](#) | [Engineering Seal Speed](#) | [Engineering Bearing Attributes](#) | [Engineering Internal Radial Clearance](#)

**Specifications****Engineering Group** Mounted Bearing**Bearing Number** 22220**Shaft Size** 4 in**Shaft Size Type** Imperial

**Full Timken Part Number**

QMCW20J400SB  
 QMCW20J400SC  
 QMCW20J400SEB  
 QMCW20J400SEC  
 QMCW20J400SEM  
 QMCW20J400SEN  
 QMCW20J400SEO  
 QMCW20J400SET  
 QMCW20J400SM  
 QMCW20J400SN  
 QMCW20J400SO  
 QMCW20J400ST



<b>Locking Style</b>	Eccentric
<b>Housing Construction</b>	Piloted Flange Cartridge

<b>UPC Code</b>	0883450064224
	0883450064231
	0883450064255
	0883450064262
	0883450064279
	0883450064286
	0883450064293
	0883450064309
	0883450166669
	0883450167383
0883450258845	
0883450259385	

## 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 K</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>	2.96 in 75.2 mm
<b>Dimension N</b>	2.25 in 57.2 mm
<b>Dimension R</b>	0.16 in 4.1 mm
<b>Dimension S</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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