



**The Timken Company**

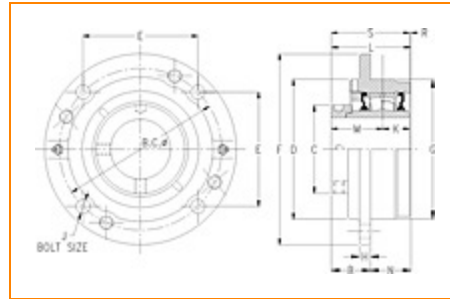
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## Part Number QMCW09J111S, Eccentric Piloted Flange Cartridge



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### Specifications

**Engineering Group** Mounted Bearing

**Bearing Number** 22209

**Shaft Size** 1 11/16 in

**Shaft Size Type** Imperial

**Full Timken Part Number**

- QMCW09J111SB
- QMCW09J111SC
- QMCW09J111SEB
- QMCW09J111SEC
- QMCW09J111SEM
- QMCW09J111SEN
- QMCW09J111SEO
- QMCW09J111SET
- QMCW09J111SM
- QMCW09J111SN
- QMCW09J111SO
- QMCW09J111ST



<b>Locking Style</b>	Eccentric
<b>Housing Construction</b>	Piloted Flange Cartridge
<b>UPC Code</b>	0883450061629 0883450061636 0883450061650 0883450061667 0883450061674 0883450061681 0883450061698 0883450061704 0883450166409 0883450167123 0883450258548 0883450259095

## Dimensions

<b>Dimension BC</b>	5.13 in 130.3 mm
<b>Dimension B Exp</b>	1.58 in 40.1 mm
<b>Dimension B Fix</b>	1.53 in 38.9 mm
<b>Dimension C</b>	2.63 in 66.8 mm
<b>Dimension D</b>	4.38 in 111.3 mm
<b>Dimension E</b>	3.62 in 91.9 mm
<b>Dimension F</b>	6.13 in 155.7 mm
<b>Dimension G</b>	4.25 in 108 mm

<b>Dimension H</b>	0.4 in 10.2 mm
<b>Dimension J (Bolt Size)</b>	0.438 in 10 mm
<b>Dimension K</b>	0.99 in 25.1 mm
<b>Dimension L Exp</b>	3.08 in 78.2 mm
<b>Dimension L Fix</b>	3.03 in 77 mm
<b>Dimension M</b>	1.88 in 47.8 mm
<b>Dimension N</b>	1.5 in 38.1 mm
<b>Dimension R</b>	0.16 in 4.1 mm
<b>Dimension S</b>	2.87 in 72.9 mm

## Radial and Thrust Factors

<b>C0 - Static Load</b>	24200 lbf 108000 N
<b>C - Dynamic Load (Basic)</b>	24500 lbf 109000 N
<b>e - Geometry Factor</b>	0.26
<b>Y1 - Geometry Factor</b>	2.64
<b>Y2 - Geometry Factor</b>	3.93

## Engineering Seal Speed

<b>Oil Lubrication - M/N Seal</b>	2700 rpm
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<b>Oil Lubrication - T Seal</b>	4500 rpm
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<b>Oil Lubrication - B/C/O Seal</b>	1950 rpm
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<b>Grease Lubrication - M/N Seal</b>	2700 rpm
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<b>Grease Lubrication - T Seal</b>	4000 rpm
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<b>Grease Lubrication - B/C/O Seal</b>	1950 rpm
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## Engineering Bearing Attributes

<b>Float</b>	0.050 in 1.270 mm
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<b>Shaft Tolerance</b>	0.0015 in 0.038 mm
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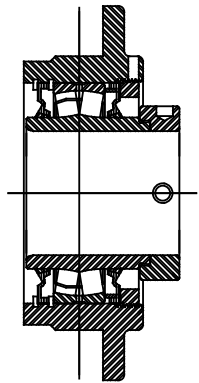
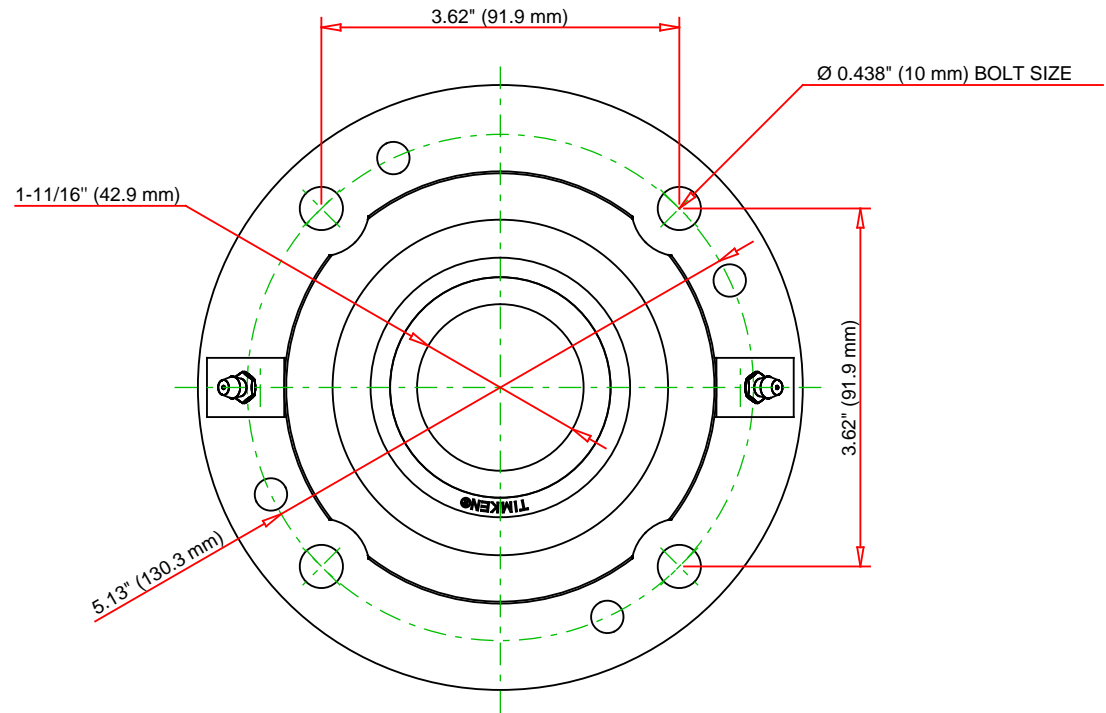
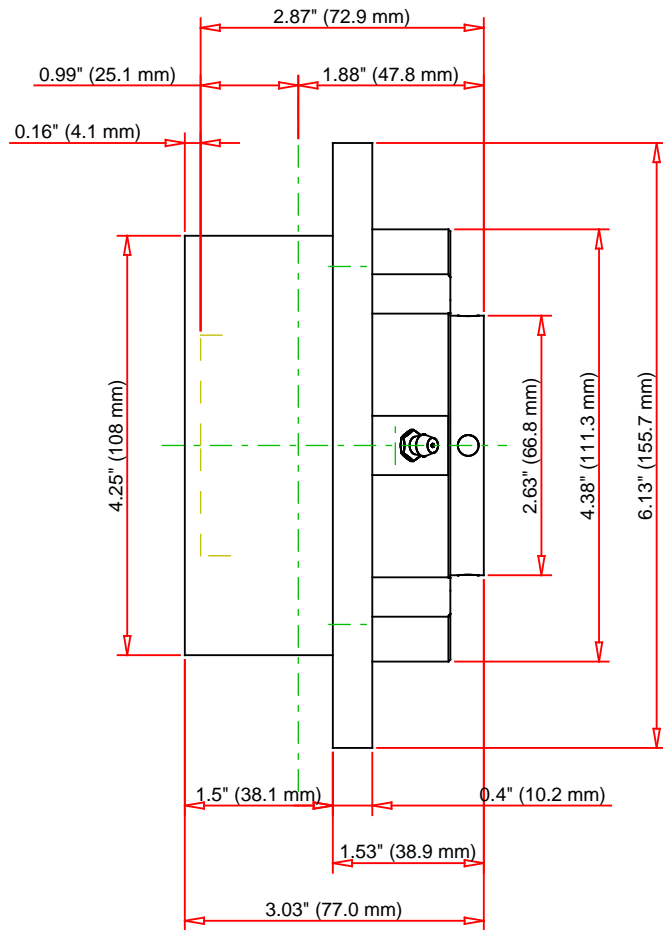
## Engineering Internal Radial Clearance

<b>Eng Internal Radial Clearance - Min</b>	0.0014
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<b>Eng Internal Radial Clearance - Max</b>	0.0022
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<b>Pre Install Clearance Min</b>	0.0014 in 0.035 mm
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<b>Pre Install Clearance Max</b>	0.0022 in 0.055 mm
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Note: Section View not to Scale

C - Dynamic Load	24500	lbf	109000	N
C0 - Static Load	24200	lbf	108000	N
Weight	9	lb	4.1	kg
Max. Speed T-Seals & Grease	4000	rpm		
Rad. Clearance - Max.	0.0022			

**TIMKEN**

THE TIMKEN COMPANY  
NORTH CANTON, OHIO USA

**QMCW09J111S**  
Eccentric Piloted Flange Cartridge

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**FOR DISCUSSION ONLY**