


**The Timken Company**

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## Part Number QACW15A211S, Single Concentric Piloted Flange Cartridge



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## Specifications

<b>Engineering Group</b>	Mounted Bearing
<b>Bearing Number</b>	22215
<b>Shaft Size</b>	2 11/16 in
<b>Shaft Size Type</b>	Imperial
<b>Full Timken Part Number</b>	QACW15A211SB QACW15A211SC QACW15A211SEB QACW15A211SEC QACW15A211SEM QACW15A211SEN QACW15A211SEO QACW15A211SET QACW15A211SM QACW15A211SN QACW15A211SO QACW15A211ST



<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>	0883450305389
	0883450305396
	0883450305402
	0883450305419
	0883450305426
	0883450305433
	0883450305440
	0883450305457
	0883450305464
	0883450305471
	0883450305488
	0883450305495

## Dimensions

<b>Dimension BC</b>	7-1/2 in 190.5 mm
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<b>Dimension B Exp</b>	1.89 in 48 mm
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<b>Dimension B Fix</b>	1.81 in 46 mm
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<b>Dimension C</b>	4.29 in 109 mm
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<b>Dimension D</b>	6.38 in 162.1 mm
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<b>Dimension E</b>	5.3 in 134.6 mm
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<b>Dimension F</b>	8-3/4 in 222.3 mm
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<b>Dimension G</b>	6.375 in 161.9 mm
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<b>Dimension H</b>	0.5 in 12.7 mm
<b>Dimension J (Bolt Size)</b>	0.625 in 16 mm
<b>Dimension KA</b>	1.25 in 31.8 mm
<b>Dimension L Exp</b>	3.76 in 95.5 mm
<b>Dimension L Fix</b>	3.68 in 93.5 mm
<b>Dimension M</b>	2.37 in 60.2 mm
<b>Dimension N</b>	1.88 in 47.8 mm
<b>Dimension RA</b>	0.06 in 1.5 mm
<b>Dimension SA</b>	3.62 in 91.9 mm

## Radial and Thrust Factors

<b>C0 - Static Load</b>	54100 lbf 240000 N
<b>C - Dynamic Load (Basic)</b>	49900 lbf 222000 N
<b>e - Geometry Factor</b>	0.22
<b>Y1 - Geometry Factor</b>	3.14
<b>Y2 - Geometry Factor</b>	4.67

## Engineering Seal Speed

<b>Oil Lubrication - M/N Seal</b>	1600 rpm
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<b>Oil Lubrication - T Seal</b>	2900 rpm
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<b>Oil Lubrication - B/C/O Seal</b>	1300 rpm
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<b>Grease Lubrication - M/N Seal</b>	1600 rpm
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<b>Grease Lubrication - T Seal</b>	2400 rpm
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<b>Grease Lubrication - B/C/O Seal</b>	1300 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>	0.0020 in 0.051 mm
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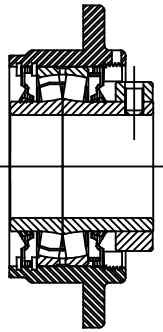
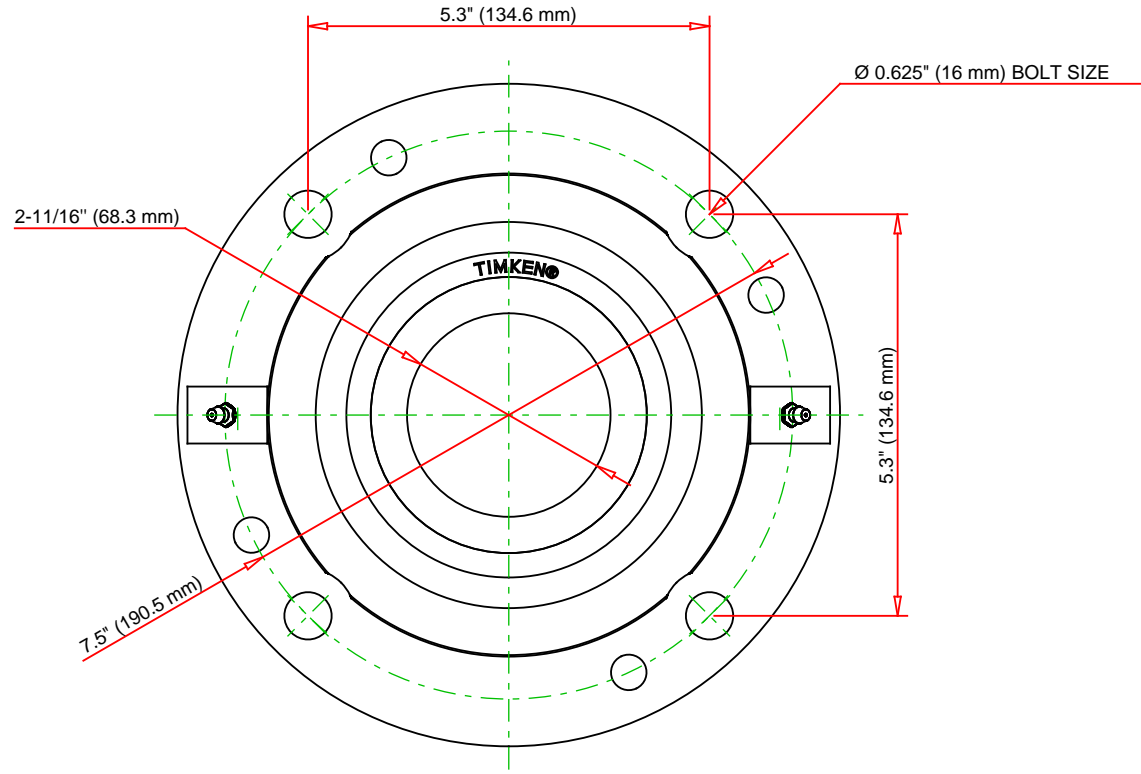
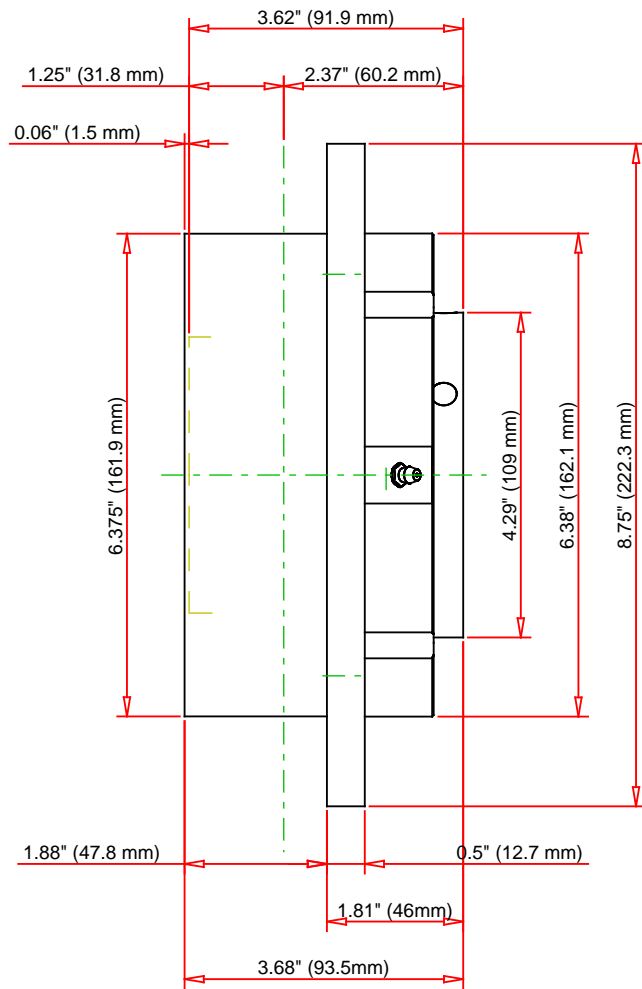
## Engineering Internal Radial Clearance

<b>Eng Internal Radial Clearance - Min</b>	0.0020
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<b>Eng Internal Radial Clearance - Max</b>	0.0031
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<b>Pre Install Clearance Min</b>	0.0020 in 0.050 mm
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<b>Pre Install Clearance Max</b>	0.0031 in 0.080 mm
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Note: Section View not to Scale

C - Dynamic Load	49900	lbf	222000	N
C0 - Static Load	54100	lbf	240000	N
Weight	22	lb	10	kg
Max. Speed T-Seals & Grease	2400	rpm		
Rad. Clearance - Max.	0.0031			

**TIMKEN**

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NORTH CANTON, OHIO USA

**QACW15A211S**

Single Concentric Piloted Flange  
Cartridge

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**FOR DISCUSSION ONLY**