


**The Timken Company**

4500 Mt Pleasant St. NW

N. Canton, OH 44720

**Phone:** (234) 262-3000

**E-Mail:** [CustomerCAD@timken.com](mailto:CustomerCAD@timken.com) • **Web site:** [www.timken.com](http://www.timken.com)

## Part Number QACW09A045S, Single Concentric Piloted Flange Cartridge



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## Specifications

<b>Engineering Group</b>	Mounted Bearing
<b>Bearing Number</b>	22209
<b>Shaft Size</b>	45 mm
<b>Shaft Size Type</b>	Metric
<b>Full Timken Part Number</b>	QACW09A045SB QACW09A045SC QACW09A045SEB QACW09A045SEC QACW09A045SEM QACW09A045SEN QACW09A045SEO QACW09A045SET QACW09A045SM QACW09A045SN QACW09A045SO QACW09A045ST



<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>	883450970716
	883450970723
	883450970730
	883450970747
	883450970754
	883450970761
	883450970778
	883450970785
	883450970792
	883450970808
883450970815	
883450970822	

## Dimensions

<b>Dimension BC</b>	5.13 in 130.3 mm
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<b>Dimension B Exp</b>	1.58 in 40.1 mm
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<b>Dimension B Fix</b>	1.53 in 38.9 mm
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<b>Dimension C</b>	2.63 in 66.8 mm
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<b>Dimension D</b>	4.38 in 111.3 mm
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<b>Dimension E</b>	3.62 in 91.9 mm
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<b>Dimension F</b>	6.13 in 155.7 mm
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<b>Dimension G</b>	4.25 in 108 mm
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<b>Dimension H</b>	0.4 in 10.2 mm
<b>Dimension J (Bolt Size)</b>	0.438 in 10 mm
<b>Dimension KA</b>	1 in 25.4 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 RA</b>	0.15 in 3.8 mm
<b>Dimension SA</b>	2.88 in 73.2 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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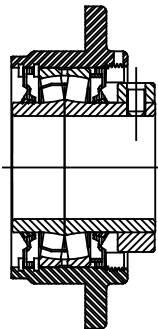
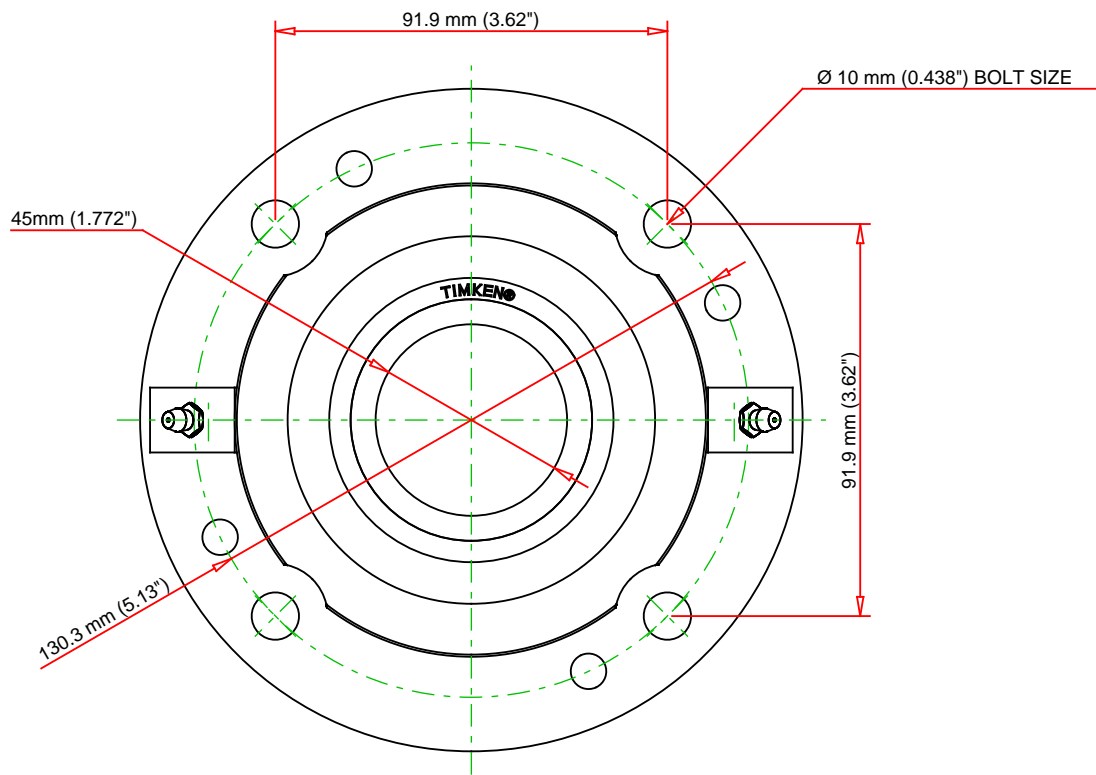
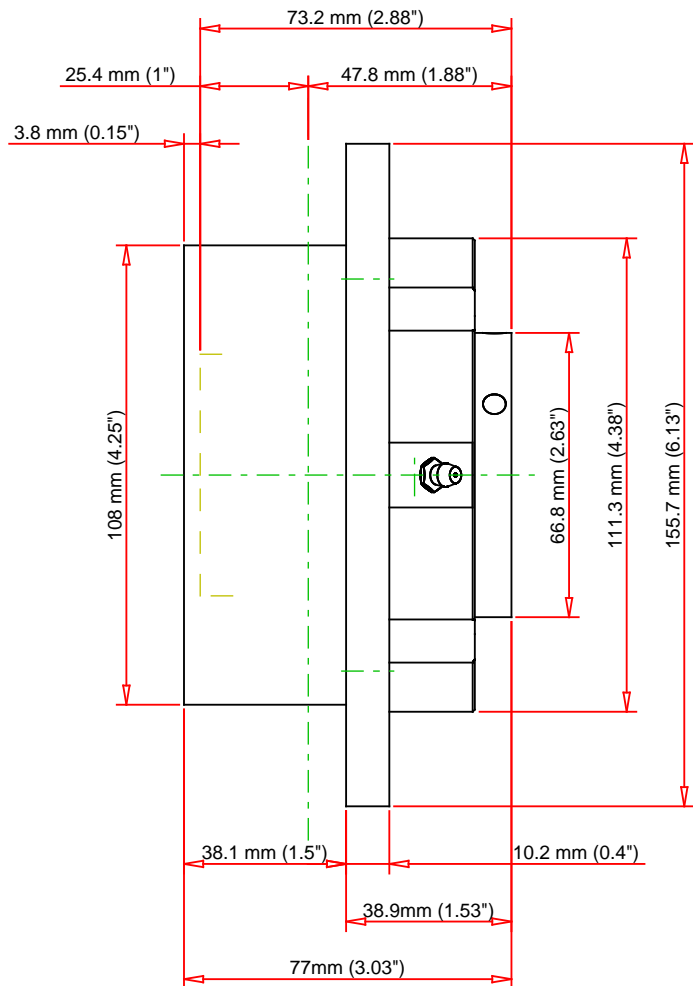
### Engineering Internal Radial Clearance

<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**

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NORTH CANTON, OHIO USA

**QACW09A045S**  
Single Concentric Piloted Flange  
Cartridge

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**FOR DISCUSSION ONLY**