


**The Timken Company**

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**Part Number QAC15A300S, Single Concentric Piloted Flange Cartridge**


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**Specifications**

**Engineering Group** Mounted Bearing

**Bearing Number** 22215

**Shaft Size** 3 in

**Shaft Size Type** Imperial

**Full Timken Part Number**  
 QAC15A300SB  
 QAC15A300SBNG  
 QAC15A300SC  
 QAC15A300SEB  
 QAC15A300SEBNG  
 QAC15A300SEC  
 QAC15A300SEM  
 QAC15A300SEN  
 QAC15A300SEO  
 QAC15A300SET  
 QAC15A300SM  
 QAC15A300SN  
 QAC15A300SO



QAC15A300ST

**Locking Style** Single Concentric

**Housing Construction** Piloted Flange Cartridge

**UPC Code**

0883450035606  
 0883450035613  
 0883450035637  
 0883450035644  
 0883450035651  
 0883450035668  
 0883450035675  
 0883450035682  
 0883450193221  
 0883450193382  
 0883450270410  
 0883450270571  
 0883450433471  
 0883450433488

**Dimensions**

**Dimension BC** 7-1/2 in  
 190.5 mm

**Dimension B Exp** 2.7 in  
 68.6 mm

**Dimension B Fix** 2.61 in  
 66.3 mm

**Dimension C** 4.29 in  
 109 mm

**Dimension D** 6.38 in  
 162.1 mm

**Dimension E** 5.3 in  
 134.6 mm

**Dimension F** 8-3/4 in  
 222.3 mm

<b>Dimension G</b>	6.375 in 161.9 mm
<b>Dimension H</b>	0.81 in 20.6 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>	3.95 in 100.3 mm
<b>Dimension L Fix</b>	3.86 in 98 mm
<b>Dimension M</b>	2.37 in 60.2 mm
<b>Dimension N</b>	1.25 in 31.8 mm
<b>Dimension RA</b>	0.24 in 6.1 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

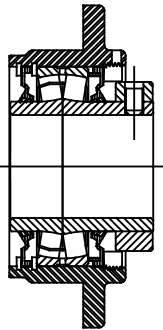
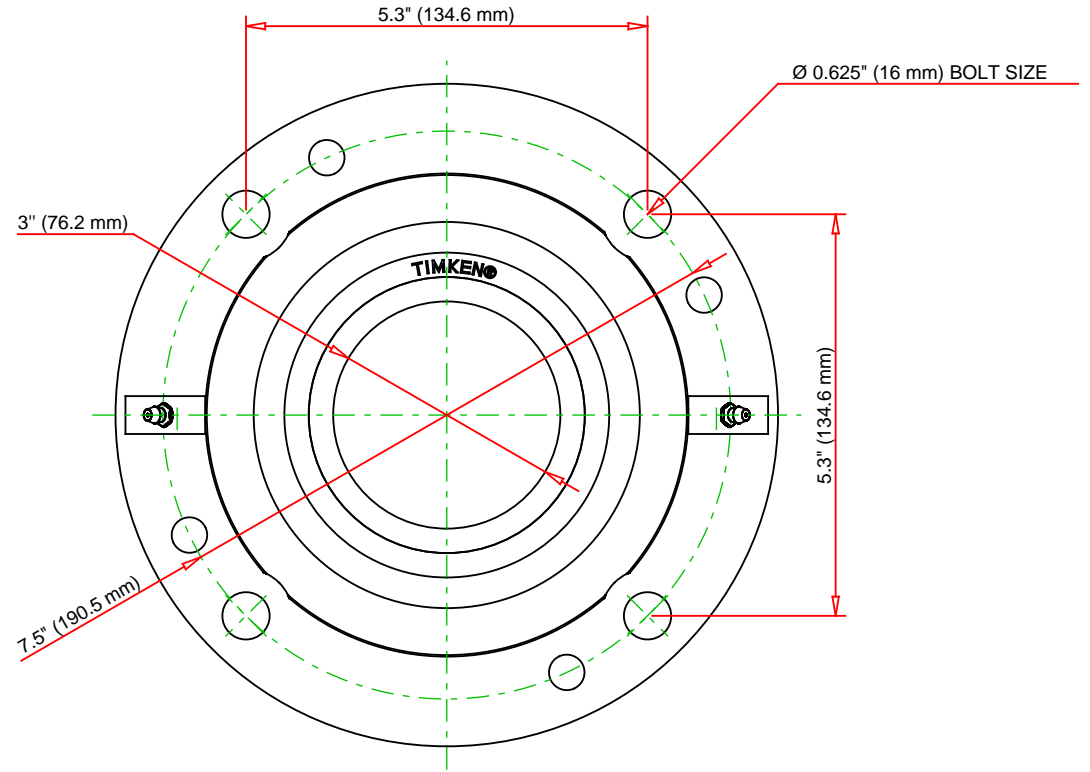
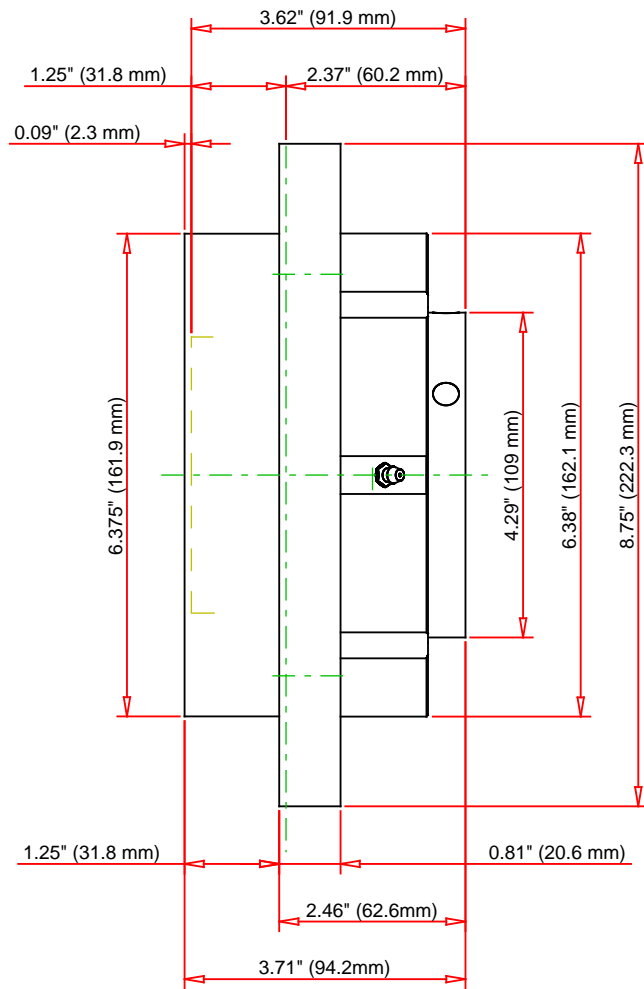
<b>Oil Lubrication - M/N Seal</b>	1600 rpm
<b>Oil Lubrication - T Seal</b>	2900 rpm
<b>Oil Lubrication - B/C/O Seal</b>	1300 rpm
<b>Grease Lubrication - M/N Seal</b>	1600 rpm
<b>Grease Lubrication - T Seal</b>	2400 rpm
<b>Grease Lubrication - B/C/O Seal</b>	1300 rpm

## Engineering Bearing Attributes

<b>Float</b>	0.083 in 2.108 mm
<b>Shaft Tolerance</b>	0.0020 in 0.051 mm

## Engineering Internal Radial Clearance

<b>Eng Internal Radial Clearance - Min</b>	0.0020
<b>Eng Internal Radial Clearance - Max</b>	0.0031
<b>Pre Install Clearance Min</b>	0.0020 in 0.050 mm
<b>Pre Install Clearance Max</b>	0.0031 in 0.080 mm



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

**QAC15A300S**

Single Concentric Piloted Flange  
Cartridge

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**FOR DISCUSSION ONLY**