


**The Timken Company**

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**Part Number QAC18A308S, Single Concentric Piloted Flange Cartridge**


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**Specifications**

<b>Engineering Group</b>	Mounted Bearing
<b>Bearing Number</b>	22218
<b>Shaft Size</b>	3 1/2 in
<b>Shaft Size Type</b>	Imperial
<b>Full Timken Part Number</b>	QAC18A308SB QAC18A308SC QAC18A308SEB QAC18A308SEC QAC18A308SEM QAC18A308SEN QAC18A308SEO QAC18A308SET QAC18A308SM QAC18A308SN QAC18A308SO QAC18A308ST



<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>	0883450035903
	0883450035910
	0883450035934
	0883450035941
	0883450035958
	0883450035965
	0883450035972
	0883450035989
	0883450193252
	0883450193412
	0883450270441
	0883450270601

## Dimensions

<b>Dimension BC</b>	8.63 in 219.2 mm
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<b>Dimension B Exp</b>	2.96 in 75.2 mm
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<b>Dimension B Fix</b>	2.88 in 73.2 mm
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<b>Dimension C</b>	5.13 in 130.3 mm
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<b>Dimension D</b>	7.38 in 187.5 mm
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<b>Dimension E</b>	6.1 in 154.9 mm
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<b>Dimension F</b>	10.34 in 262.6 mm
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<b>Dimension G</b>	7.375 in 187.3 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 KA</b>	1.44 in 36.6 mm
<b>Dimension L Exp</b>	4.27 in 108.5 mm
<b>Dimension L Fix</b>	4.19 in 106.4 mm
<b>Dimension M</b>	2.59 in 65.8 mm
<b>Dimension N</b>	1.31 in 33.3 mm
<b>Dimension RA</b>	0.16 in 4.1 mm
<b>Dimension SA</b>	4.03 in 102.4 mm

## Radial and Thrust Factors

<b>C0 - Static Load</b>	87200 lbf 388000 N
<b>C - Dynamic Load (Basic)</b>	79700 lbf 355000 N
<b>e - Geometry Factor</b>	0.23
<b>Y1 - Geometry Factor</b>	2.90
<b>Y2 - Geometry Factor</b>	4.31

## Engineering Seal Speed

<b>Oil Lubrication - M/N Seal</b>	1400 rpm
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<b>Oil Lubrication - T Seal</b>	2400 rpm
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<b>Oil Lubrication - B/C/O Seal</b>	1000 rpm
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<b>Grease Lubrication - M/N Seal</b>	1400 rpm
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<b>Grease Lubrication - T Seal</b>	2000 rpm
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<b>Grease Lubrication - B/C/O Seal</b>	1000 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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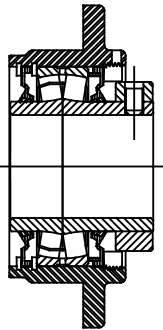
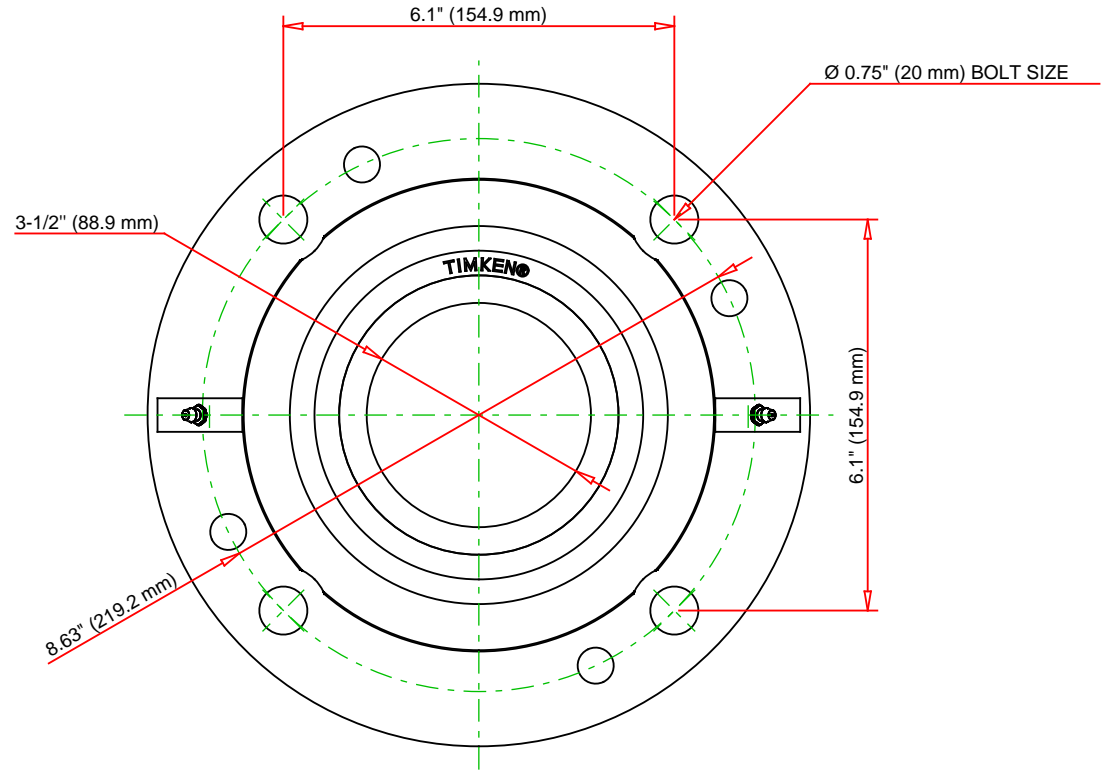
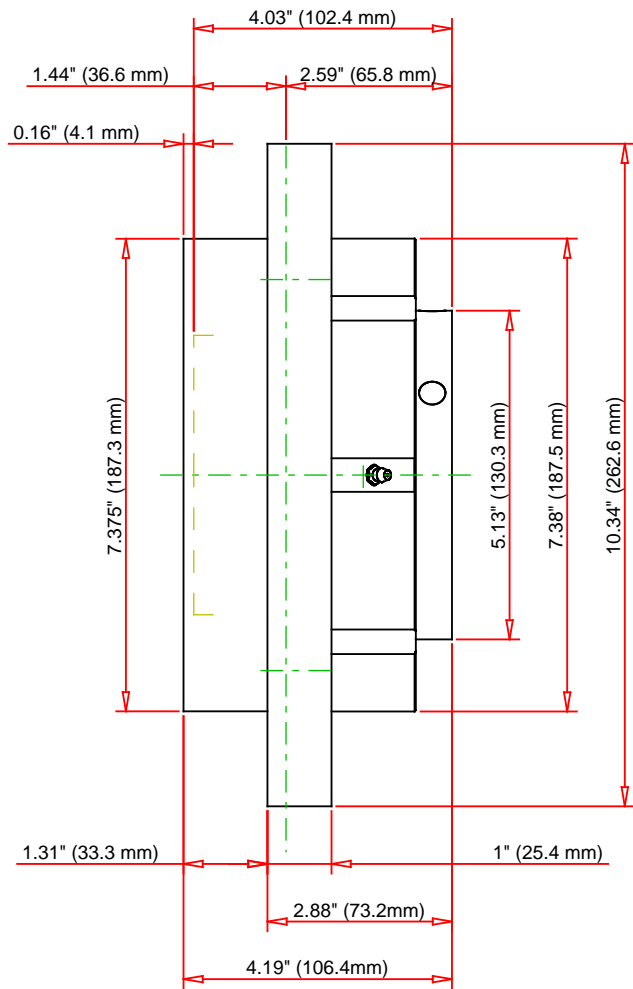
## Engineering Internal Radial Clearance

<b>Eng Internal Radial Clearance - Min</b>	0.0024
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<b>Eng Internal Radial Clearance - Max</b>	0.0039
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<b>Pre Install Clearance Min</b>	0.0024 in 0.060 mm
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<b>Pre Install Clearance Max</b>	0.0039 in 0.100 mm
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Note: Section View not to Scale

C - Dynamic Load	79700	lbf	355000	N
C0 - Static Load	87200	lbf	388000	N
Weight	32	lb	14.5	kg
Max. Speed T-Seals & Grease	2000	rpm		
Rad. Clearance - Max.	0.0039			

**TIMKEN**

THE TIMKEN COMPANY  
NORTH CANTON, OHIO USA

**QAC18A308S**

Single Concentric Piloted Flange  
Cartridge

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**FOR DISCUSSION ONLY**