



**The Timken Company**

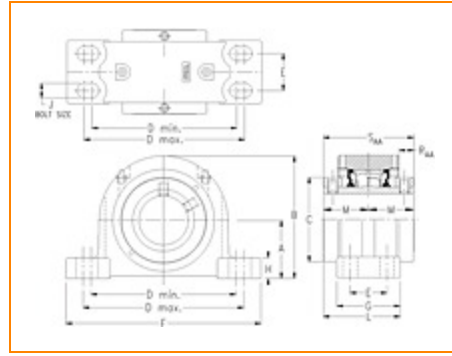
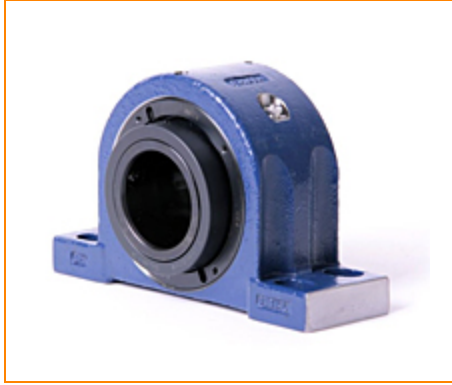
4500 Mt Pleasant St. NW

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 QAAPF20A400S, Double Concentric Four-Bolt Pillow Block



[Specifications](#) | [Dimensions](#) | [Radial and Thrust Factors](#) | [Engineering Seal Speed](#) | [Engineering Bearing Attributes](#) | [Engineering Internal Radial Clearance](#)

### Specifications

**Engineering Group** Mounted Bearing

**Bearing Number** 22220

**Shaft Size** 4 in

**Shaft Size Type** Imperial

**Full Timken Part Number**

- QAAPF20A400SB
- QAAPF20A400SC
- QAAPF20A400SEB
- QAAPF20A400SEC
- QAAPF20A400SEM
- QAAPF20A400SEN
- QAAPF20A400SEO
- QAAPF20A400SET
- QAAPF20A400SM
- QAAPF20A400SN
- QAAPF20A400SO
- QAAPF20A400ST



<b>Locking Style</b>	Double Concentric
----------------------	-------------------

<b>Housing Construction</b>	Four-Bolt Pillow Block
-----------------------------	------------------------

<b>UPC Code</b>	0883450027809
	0883450027816
	0883450027830
	0883450027847
	0883450027854
	0883450027861
	0883450027878
	0883450027885
	0883450189583
	0883450189712
0883450266925	
0883450267069	

## Dimensions

<b>Dimension A</b>	4-1/4 in 108 mm
<b>Dimension B</b>	8.78 in 223 mm
<b>Dimension C</b>	6 in 152.4 mm
<b>Dimension D Min</b>	10.88 in 276.4 mm
<b>Dimension D Max</b>	13.38 in 339.9 mm
<b>Dimension E</b>	2-1/4 in 57.2 mm
<b>Dimension F</b>	14.88 in 378 mm
<b>Dimension G</b>	4.31 in 109.5 mm

<b>Dimension H</b>	1.4 in 35.6 mm
<b>Dimension J (Bolt Size)</b>	0.759 in 20 mm
<b>Dimension L</b>	5.13 in 130.3 mm
<b>Dimension M</b>	2.97 in 75.4 mm
<b>Dimension RAA</b>	0.99 in 25.1 mm
<b>Dimension SAA</b>	5.94 in 150.9 mm

### Radial and Thrust Factors

<b>C0 - Static Load</b>	113000 lbf 502000 N
<b>C - Dynamic Load (Basic)</b>	97700 lbf 435000 N
<b>e - Geometry Factor</b>	0.24
<b>Y1 - Geometry Factor</b>	2.85
<b>Y2 - Geometry Factor</b>	4.24

### Engineering Seal Speed

<b>Oil Lubrication - M/N Seal</b>	1200 rpm
<b>Oil Lubrication - T Seal</b>	2000 rpm
<b>Oil Lubrication - B/C/O Seal</b>	900 rpm
<b>Grease Lubrication - M/N Seal</b>	1200 rpm

<b>Grease Lubrication - T Seal</b>	1600 rpm
------------------------------------	----------

<b>Grease Lubrication - B/C/O Seal</b>	900 rpm
--	---------

### Engineering Bearing Attributes

<b>Float</b>	0.083 in 2.108 mm
--------------	----------------------

<b>Shaft Tolerance</b>	0.0030 in 0.076 mm
------------------------	-----------------------

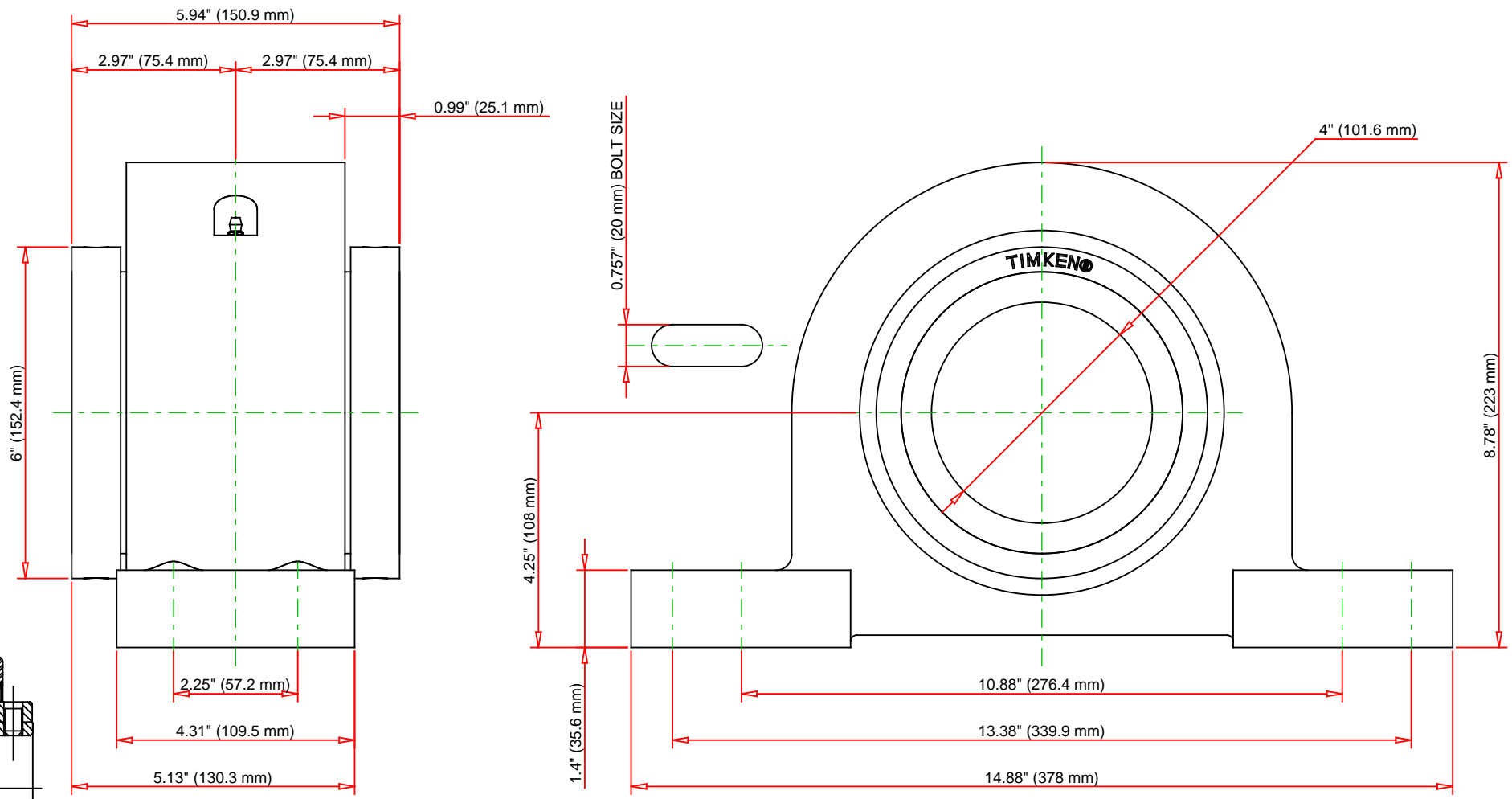
### Engineering Internal Radial Clearance

<b>Eng Internal Radial Clearance - Min</b>	0.0030
--	--------

<b>Eng Internal Radial Clearance - Max</b>	0.0047
--	--------

<b>Pre Install Clearance Min</b>	0.0030 in 0.075 mm
----------------------------------	-----------------------

<b>Pre Install Clearance Max</b>	0.0047 in 0.120 mm
----------------------------------	-----------------------



Note: Section View not to Scale

C - Dynamic Load	97700	lbf	435000	N
C0 - Static Load	113000	lbf	502000	N
Weight	67	lb	30.4	kg
Max. Speed T-Seals & Grease	1600	rpm		
Rad. Clearance - Max.	0.0047			

**TIMKEN**

THE TIMKEN COMPANY  
NORTH CANTON, OHIO USA

**QAAPF20A400S**  
Double Concentric Four-Bolt Pillow Block

Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

**FOR DISCUSSION ONLY**