


The Timken Company

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Part Number QACW10A050S, Single Concentric Piloted Flange Cartridge



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

Specifications

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|--------------------------------|--|
| Engineering Group | Mounted Bearing |
| Bearing Number | 22210 |
| Shaft Size | 50 mm |
| Shaft Size Type | Metric |
| Full Timken Part Number | QACW10A050SB QACW10A050SC QACW10A050SEB QACW10A050SEC QACW10A050SEM QACW10A050SEN QACW10A050SEO QACW10A050SET QACW10A050SM QACW10A050SN QACW10A050SO QACW10A050ST |



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|----------------------|-------------------|
| Locking Style | Single Concentric |
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| Housing Construction | Piloted Flange Cartridge |
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|-----------------|---------------|
| UPC Code | 0883450036207 |
| | 0883450036214 |
| | 0883450036238 |
| | 0883450036245 |
| | 0883450036252 |
| | 0883450036269 |
| | 0883450036276 |
| | 0883450036283 |
| | 0883450193832 |
| | 0883450193993 |
| | 0883450271004 |
| | 0883450271165 |

Dimensions

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| Dimension BC | 5.38 in 136.7 mm |
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| Dimension B Exp | 1.57 in 39.9 mm |
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| Dimension B Fix | 1.52 in 38.6 mm |
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| Dimension C | 2.88 in 73.2 mm |
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| Dimension D | 4.47 in 113.5 mm |
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| Dimension E | 3.8 in 96.5 mm |
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| Dimension F | 6.38 in 162.1 mm |
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| Dimension G | 4.5 in 114.3 mm |
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| Dimension H | 0.38 in 9.7 mm |
| Dimension J (Bolt Size) | 0.438 in 10 mm |
| Dimension KA | 1 in 25.4 mm |
| Dimension L Exp | 3.07 in 78 mm |
| Dimension L Fix | 3.02 in 76.7 mm |
| Dimension M | 1.87 in 47.5 mm |
| Dimension N | 1.5 in 38.1 mm |
| Dimension RA | 0.15 in 3.8 mm |
| Dimension SA | 2.87 in 72.9 mm |

Radial and Thrust Factors

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|---------------------------------|-----------------------|
| C0 - Static Load | 26600 lbf 118000 N |
| C - Dynamic Load (Basic) | 26300 lbf 117000 N |
| e - Geometry Factor | 0.24 |
| Y1 - Geometry Factor | 2.84 |
| Y2 - Geometry Factor | 4.23 |

Engineering Seal Speed

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|-----------------------------------|----------|
| Oil Lubrication - M/N Seal | 2400 rpm |
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| Oil Lubrication - T Seal | 4200 rpm |
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| Oil Lubrication - B/C/O Seal | 1800 rpm |
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|--------------------------------------|----------|
| Grease Lubrication - M/N Seal | 2400 rpm |
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|------------------------------------|----------|
| Grease Lubrication - T Seal | 3550 rpm |
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|--|----------|
| Grease Lubrication - B/C/O Seal | 1800 rpm |
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Engineering Bearing Attributes

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| Float | 0.050 in 1.270 mm |
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| Shaft Tolerance | 0.0015 in 0.038 mm |
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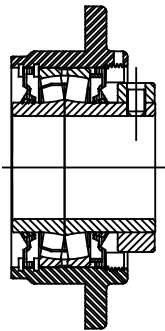
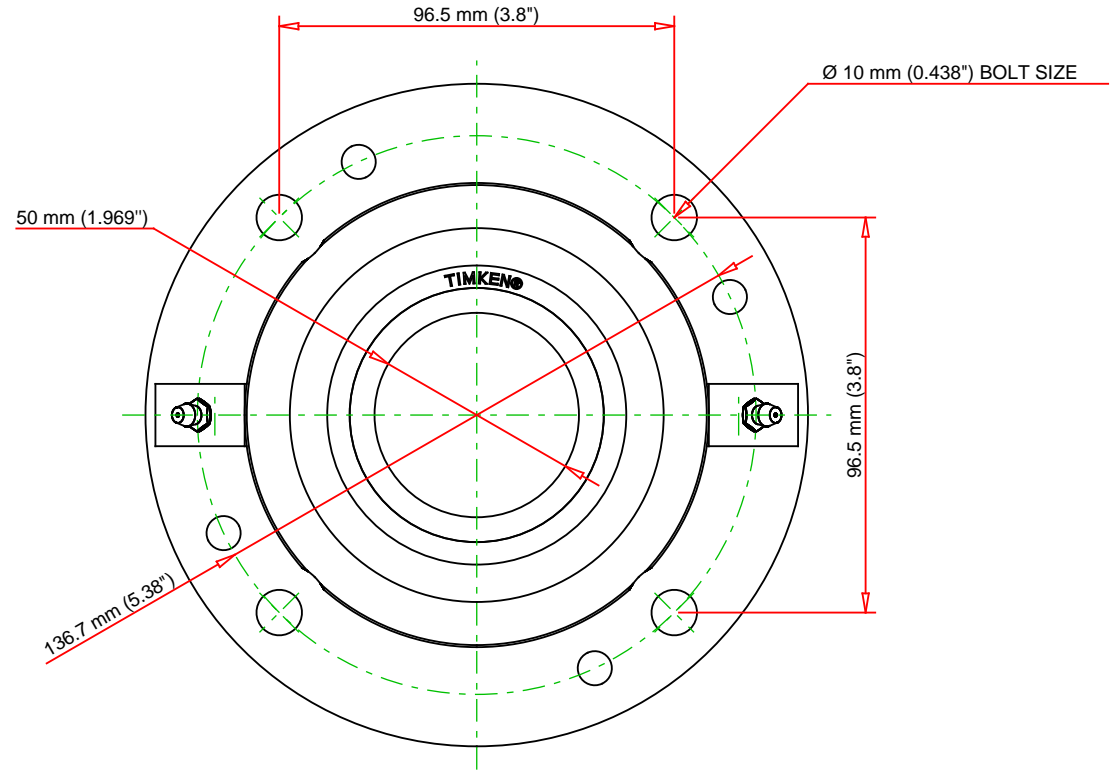
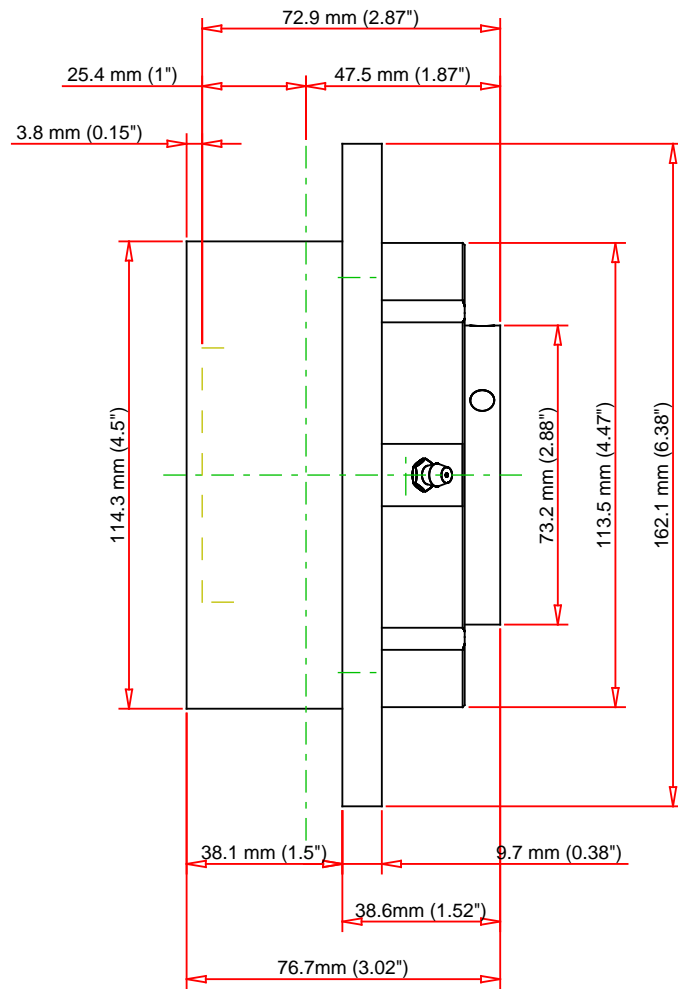
Engineering Internal Radial Clearance

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| Eng Internal Radial Clearance - Min | 0.0016 |
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|--|--------|
| Eng Internal Radial Clearance - Max | 0.0026 |
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| Pre Install Clearance Min | 0.0016 in 0.040 mm |
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|----------------------------------|-----------------------|
| Pre Install Clearance Max | 0.0026 in 0.065 mm |
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Note: Section View not to Scale

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|-----------------------------|--------|-----|--------|----|
| C - Dynamic Load | 26300 | lbf | 117000 | N |
| C0 - Static Load | 26600 | lbf | 118000 | N |
| Weight | 10 | lb | 4.5 | kg |
| Max. Speed T-Seals & Grease | 3550 | rpm | | |
| Rad. Clearance - Max. | 0.0026 | | | |

TIMKEN

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NORTH CANTON, OHIO USA

QACW10A050S

Single Concentric Piloted Flange
Cartridge

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