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General Information

| | |
|-------------|-----------------|
| Company | Date |
| Contact | TriStar Contact |
| Address | |
| Phone | Email |
| Application | QTY. |

Technical Specifications

| | | | |
|------------------------------------|--|-----------------------------|--|
| Nominal ID | <input type="text"/> Plus <input type="text"/> Minus <input type="text"/> in <input type="text"/> mm | Nominal OD | <input type="text"/> Plus <input type="text"/> Minus <input type="text"/> in <input type="text"/> mm |
| Length (Includes flange thickness) | <input type="text"/> Plus <input type="text"/> Minus <input type="text"/> in <input type="text"/> mm | Shaft Diameter | <input type="text"/> Plus <input type="text"/> Minus <input type="text"/> in <input type="text"/> mm |
| Shaft RPM | Shaft Finish | Shaft Material and Hardness | |
| Housing Bore | <input type="text"/> Plus <input type="text"/> Minus <input type="text"/> in <input type="text"/> mm | Load | <input type="text"/> lbf <input type="text"/> N |
| Temp of Operating Environment | <input type="text"/> Min <input type="text"/> Max <input type="text"/> °F <input type="text"/> °C | What is being used now? | |

| | | | | |
|------------------------------|------------------|---|-----------------|--|
| Flange Specifications | Flange Thickness | <input type="text"/> in <input type="text"/> mm | Flange Diameter | <input type="text"/> Plus <input type="text"/> Minus <input type="text"/> in <input type="text"/> mm |
| | Thrust Load | <input type="text"/> lbf <input type="text"/> N | Thrust RPM | Mating Material |

Questions

- If the bearing is linear, what is the length of stroke and the cycles per minute?
- What is the primary load factor: radial or axial or both?
- Does the bearing experience shock or excessive vibration?
- If the bearing is oscillating, what is the angle of rotation, cycles per minute, and dwell time?
- Are the temperature variations (if any) gradual or rapid?
- Type of Media: air, gas, or liquid? Intermittent or Constant?
- Is the environment abrasive in nature?
- Does the environment call for electrical: dissipation or insulation?
- Does the environment call for thermal: insulation or transfer?
- Does the application require: FDA, NSF, USDA, 3A or USP?
- Is the shaft running: vertically, horizontally, or diagonally?
- Is shaft misalignment anticipated?
- Are there special shaft treatments: Hardcoat, ENP, chrome, TFE?
- Flammability Rating required for this application? If yes, which one?

Reference



Bearing Load (P value) is LBS / (ID x Length)

| | | | | |
|----|--------|--------|------|---------------------------|
| | | 0.0000 | | 1 |
| ID | Length | ID x L | Load | Load / (ID x L) = P value |

Relative Velocity (V) is Shaft Dia x 3.14/12 x RPM

| | | | | |
|------------|--------|--------|-------------|----------------|
| | 3.1415 | 0.0000 | 0.0000 | 0 |
| Shaft Dia. | x pi | equals | div. by 12= | x RPM= V Value |

PV Value

| | | |
|---------|----------|----|
| 1 | 0 | 0 |
| P times | V equals | PV |

Notes about the hardware (housing material, etc.)

Chemicals in contact with the bearing