TIMKEN

Hygienic Solutions



IP69K Seal and Flinger

Timken® IP69K Hygienic Mounted Ball Bearings

Fully stainless bearings with IP69K water and dust protection rating without the use of an end cover for food and beverage applications.

Heavy washdowns with harsh cleaning chemicals are critical to achieve food safety in food and beverage processing and packaging equipment. Pair that with an abundance of moisture and you risk corrosion to equipment components if they are not properly engineered for this environment.

Timken Hygienic Bearings rated for IP69K are specifically engineered to perform in Food and Beverage applications where high-pressure washdowns, high humidity and excessive temperature differences exist. To meet the IP69K rating, our bearings did not allow any water or dust past the seal during the aggressive tests.

Timken IP69K Hygienic Mounted Ball Bearings can meet safety requirements of challenging food processing applications:

Key Equipment Types

- Conveyors
- Slicers
- Beverage Machinery
- Food Processing Machinery



Product Advantages

- **Superior protection**
  Timken achieves IP69K rating without a sealed end-cover.
- **Fully stainless**
  Our ball inserts (rings, balls, cage) are fully stainless making them fully metal detectable and corrosion resistant.
- **Housing variety**
  Our IP69K insert is available in combination with four different housing materials including standard cast stainless, white thermoplastic, hygienic stainless and hygienic blue thermoset housing material.
- **Numerous housing types**
  Our IP69K ball bearing insert is available in thousands of housing combinations including custom options designed to fit any food and beverage application need.

Maintenance free

With Timken, our solutions are lubed for life, containing food grade grease or solid lube options. With these solutions, there's no need to re-grease, resulting in minimal maintenance to the bearing.

Improved food safety

Our seal and flinger material are FDA/EC compliant for direct food contact. By eliminating water ingress, corrosion and rust on the bearing is also eliminated. This not only extends the life of the bearing, but also reduces the risk of contamination to food during processing and production.

Maximized productivity

Our products are designed for efficiency. You can maintain optimum operating efficiency despite chemical washdowns and wet environments.

Nomenclature

INSERT **HOUSING** **BORE**

S	UC	B	FL	QK	2	05	-	16	-	IP69K	/	F

Bearing Material
Blank Normal steel
S Stainless steel

Blank Housing Only
Insert/Locking Style
UC Set screw

Housing Material
S Cast Stainless Steel
PL Thermoplastic
A Machined Stainless
B Blue Thermoset

Housing Type
Blank Insert Only
P Pillow block
F Four Bolt flange
FL Two Bolt flange
FLY Two Bolt flange, Y series design
FB Three Bolt flange
FC Round piloted flange
T Take-up
TB Tapped base
TBY Tapped base, Y series design with imperial thread
TBYM Tapped base, Y series design with metric thread
PL Low base pillow block
FLS Small Two Bolt flange
RFB Round Three Bolt flange
H Hanger bearing
TN Narrow slot take-up

Housing Modifiers
Blank Standard
QK QuiKlean®

Diameter Series
2 Standard duty

Metric Bore Diameter Code for Cylindrical Bore (1)
01 Nominal bore diameter = 12mm
02 Nominal bore diameter = 15mm
03 Nominal bore diameter = 17mm
04 or higher Bore diameter (mm) = bore diameter code x 5
(1) adapter UK style - refer to catalog tables or shaft diameter

Inch Diameter Code
-8 or higher Bore diameter (in.) = bore diameter code/16

Seals/Shields
Blank Standard Seals with Flinger
IP69K FDA/EC Blue IP69K Seals with Flinger

Lubrication Code/Mod Code
Blank Standard industrial grease
F Standard Food grade grease
VFxxx Alternate food safe grease
FVSL613 Food grade solid lube
FVSL525 Graphite solid lube
VSLxxx Other solid lube variations

*Additional housing types available, also available with poly-round inserts.



TIMKEN

The Timken Company partners with customers to design and manufacture advanced motion technology systems and components for critical end markets including aerospace and defense, power and electrification, and automation and industrial solutions. With more than 125 years of specialized engineering expertise, we power performance across the application lifecycle.

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