

The background of the entire page is a photograph of industrial machinery, likely a food or beverage processing plant. The image is partially obscured by a large, semi-transparent blue geometric shape that starts from the top right and extends towards the bottom left. The machinery consists of various rollers, belts, and metal frames, with some parts appearing blurred due to motion. The overall color palette is dominated by the blue of the overlay and the metallic greys of the machinery.

SOLVE ™

INDUSTRIAL MOTION GROUP

SOLUTIONS FOR THE
FOOD & BEVERAGE INDUSTRY

Stainless Steel Mounted Ball Bearing Units



2-Bolt Flange



3-Bolt Flange



3-Bolt Bracketed Flange



4-Bolt Flange



Piloted 4-Bolt Flange



Pillow Block



Tapped Base Pillow Block



Hanger Unit



Take-Up Unit

Nickel Plated Mounted Ball Bearing Units



2-Bolt Flange



3-Bolt Bracketed Flange



4-Bolt Flange



Piloted 4-Bolt Flange



Pillow Block



Tapped Base Pillow Block



Hanger Unit



Take-Up Unit

Stainless Steel Stand-Off Mounted Ball Bearing Units



2-Bolt Flange Stand-Off



3-Bolt Flange Bracket Stand-Off



4-Bolt Flange Stand-Off



Tapped Base Pillow Block Stand-Off

Thermoplastic Mounted Ball Bearing Units



2-Bolt Flange



3-Bolt Bracketed Flange



4-Bolt Flange



Take-Up Unit



Pillow Block



Tapped Base Pillow Block

Corrosion-Resistant Mounted Ball Bearing Inserts



Stainless Steel —
Setscrew (SUC, SSB)



Stainless Steel —
Cylindrical OD (SSER)



Stainless Steel —
Eccentric Collar
(SHC, SNA)



Hard Chrome Coated
(CUC)



Black Oxide
(BUC)

Insert Seal Options

IP69K SERIES SEALED BEARINGS

IP69K Series bearings are ideal for food manufacturers, poultry and meat processors, pharmaceutical manufacturers, bottling companies, canning operations, and car washes. They provide increased bearing life and reduced downtime in any environment where bearings are subject to close-range, high-temperature, high-pressure caustic washdowns and frequent temporary submersions.



A unique triple-lip molded rubber composition provides superior protection against dust and liquid intrusion without the need for external seals or covers.

IP69K series bearings are “lubed for life” with H1 Food Grade grease to eliminate lube holes, grease zerks, and other potential areas of intrusion.

TRIPLE LIP (L3) SEALS

Triple Lip (L3) sealed bearings provide more protection in harsh environments. They are often an ideal choice for dirty, high-moisture applications such as those found in agriculture, turf, and car washes. From 3/4" to 3" bore, and metric sizes 20mm to 60mm, Solve's L3 inserts are available in a wide range of styles and in setscrew locking or eccentric locking collar.



SINGLE LIP SEALS

Single Lip seals are an economical choice to provide basic protection for a bearing. A nitrile rubber seal and slinger help keep lubricant inside the bearing and contaminants out. Also available with a silicone seal and stainless steel slinger for improved protection.



Stainless Steel Shaft Collars & Couplings



Unsplit



Split

Stainless Steel Rod Ends



Female & Male Rod Ends

Stainless Steel Deep Groove Ball Bearings

Stainless steel deep groove ball bearings, made primarily of AISI 440C and AISI 301 stainless steel, offer high corrosion resistance, stability, and durability, especially in humid and caustic environments. They share standard dimensions with regular bearings but are specially suited for demanding, corrosive conditions. Pre-lubricated with FDA-approved grease, these bearings are ideal for the food and beverage industry, where hygiene and resistance to frequent wash-downs are critical.



Stainless Steel Single Row Radial
Deep Groove Ball Bearings



Miniature Single Row Deep
Groove Ball Bearings



Poly Lube Ball Bearings



Poly Lube Insert

Solid Lube Deep Groove Ball Bearings & Inserts

Solve SPL Series Poly Lube deep groove ball bearing use a solid lubricant rather than traditional liquid or grease lubricants. This allows for maintenance-free operation, reduced wear, and longer life as well as making them ideal for the food and pharmaceutical industries where avoiding liquid lubricant contamination is critical.

IP69K SERIES

IP69K Series bearings stand up to dust, liquids and harsh cleaning chemicals.



Engineered to stand up to the most rigorous operating conditions — including high-pressure caustic washdowns and other cleaning and sanitizing procedures — the IPTCI® IP69K Series is a massive leap forward in safety, reliability and sealing effectiveness.

The IP69K Series is ideal for food manufacturers, poultry and meat processors, pharmaceutical manufacturers, bottling companies, canning operations, car washes — any environment where bearings are subject to close-range, high-temperature, high-pressure caustic washdowns and frequent temporary submersions.

PRODUCT RANGE

SIZES: 201 – 210 (1/2" to 2"; 20mm to 50mm). Larger sizes available upon request.

CONFIGURATIONS: Available in all major housing configurations (including Stand-Off Series).

NOMENCLATURE:
SUC 205 16 IP69K



The IP69K Standard

IP: Ingress Protection rating.

FIRST DIGIT: Protection against solids.
“6” means dust tight; no ingress of dust.

SECOND DIGIT: Protection against liquids.
“9K” means protection against close-range, high-pressure, high-temperature washdowns and steam cleaning.

IP69K SERIES

- Unique triple-lip molded rubber composition provides superior protection against dust and liquid intrusion.
- “Lubed for life” with H1 Food Grade grease to eliminate lube holes, grease zerks, and other potential areas of intrusion.
- High-quality, corrosion-resistant stainless steel construction extends the life of the bearing.
- From an industry leader in mounted bearings and mechanical power-transmission components.
- No external seals or covers required.
- Specify IPTCI’s IP69K Series for your most challenging applications.
- Dustproof. Waterproof. Hassleproof.

IP69K SERIES

Custom-Engineered Success

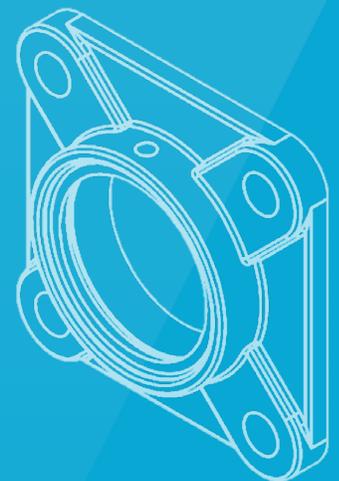


Challenge

A leading commercial dishwasher manufacturer in the southeastern US was designing a new product that required waterproof bearings on the ends of conveyors. The bearings needed to be able to stand up to daily exposure to high temperatures and regular sanitary washdowns. The manufacturer was familiar with Solve's IPTCI® brand of IP69K bearings as they were being used in other applications within the facility, so they felt strongly that the bearings would work well for another product. During the design phase, however, it was determined that the length through bore (LTB) of the standard bearing assembly was too long for the product.

Solution

Solve's application engineer visited the manufacturer to review the product designs and work with the team to develop a solution that would include the desired IP69K bearings. While working with the manufacturer's engineering team, it was determined that the size of the bearing needed to be reduced by 0.25" in order to fit the application. Since machining the insert and compromising its ingress integrity wasn't an option, the team decided to explore removing the excess from the back of the housing. Within two weeks of the site visit, Solve provided the manufacturer with engineered drawings for approval.



Stainless Steel Benefits

When it comes to choosing the right chain and sprockets for your maintenance needs, stainless steel offers significant advantages over standard cast iron options.

Durability and Corrosion Resistance: Stainless steel chain and sprockets offer superior durability and are highly resistant to corrosion compared to standard cast iron options. This makes them ideal for food and beverage production facilities where frequent exposure to moisture and chemicals is common.

Superior Sanitary Qualities: Stainless steel's non-porous surface prevents contamination and bacterial growth, making it an excellent choice for facilities with sanitary requirements. Unlike cast iron, stainless steel doesn't flake or degrade, eliminating the risk of contamination from rust particles, which is crucial for maintaining product quality and compliance with industry regulations.

Long-Term Cost-Effectiveness: Although the initial investment in stainless steel chain and sprockets may be higher than cast iron, their extended lifespan and lower maintenance requirements result in significant cost savings over time. This makes them a financially smart choice for long-term operations.

Improved Performance and Reliability: Stainless steel's strength and resistance to wear ensure more consistent performance and reliability. This minimizes downtime due to equipment failure, enhancing overall productivity. Opting for stainless steel chain and sprockets can lead to smoother, more efficient facility management.

Lube-Free Stainless Steel Roller Chain: High performance — Marathon Series — polymer bearings allow operation of stainless steel chain without lubrication.

- Durable and low-friction polymer bearing with all other components made from stainless steel
- Meets DIN 8187 standards
- No relubrication required



Stainless Steel Roller Chain



Stainless Steel Attachment Chain
also available



Sprockets



Marathon Conveyor Chain



Marathon Roller Chain



Nickel Plated Roller Chain



Nickel Plated Connecting Links
also available

Superior Product Availability

50,000+ bearings and power transmission components can be ready to ship same day, complete coverage — metric and imperial. We are also committed to serving our OEM partners with custom and private label solutions.

Quality + Performance + Price

Brands you know and trust. Quality assurance programs and certifications. High-performance options for challenging applications. The Solve Sweet Spot™ — perfect blend of performance + value.

The Solve Difference

Expertise You Rely On

Knowledgeable technical sales support, extensive engineering capabilities, full training, education and support tools available. 50+ years of specializing in bearings and power transmission. Solve can conduct a complete process analysis to help find your ideal solution when the situation calls for it.

Trustable Attentive Service

Meeting customer needs with Solve 360 Service™. 24/7 access to professional, responsive solutions, a national network of sales and product support, and custom market incentive programs.

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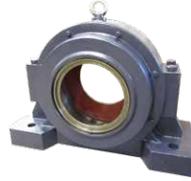
Your Source for Power Transmission Components



Mounted Ball Bearings



Corrosion-Resistant Mounted Ball Bearings



Split Block Roller Bearings



Unitized Mounted Roller Bearings



Spherical & Cylindrical Roller Bearings



Tapered Roller Bearings



Deep Groove & Angular Contact Bearings



Needle Roller Bearings



Cam Followers & Yoke Rollers



Spherical Plain Bearings & Rod Ends



Sheaves



Timing Pulleys



QD, DST, & Tapered Shaft Bushings



Weld-On Hubs



MD Flex Couplings



Jaw Couplings



Sprockets



Precision Roller Chain



Corrosion-Resistant Roller Chain



V-Belts & Timing Belts

