Bearings in Flygt products

Bearings are one of the key components that contribute to the long-lasting, trouble-free operation of Flygt pumps and mixers. Bearing life expectancy has a great influence on the maintenance intervals for major service overhaul.

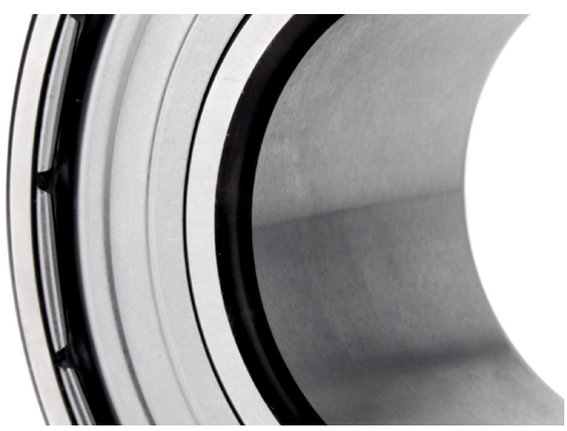
Thanks to years of field experience and testing, Xylem has a deep understanding and knowledge of the factors that influence bearing performance and lifetime. Based on this knowledge, the bearings in Flygt products are selected to have a lifetime that generally exceeds 50,000 hours.



Carefully tested and selected

The bearings used in Flygt products are carefully selected to secure reliable, trouble-free operation. All bearings, for instance, have controlled parameters for clearance, shoulder heights, angles of angular bearings, tolerances and coatings. They are tested with all types of loadings from external forces and other environmental impacts. Flygt-approved bearings stand the test of time, oxidation, temperature gradients, light and heavy loads, stray currents, vibrations and other forces.

At a first glance, Flygt bearings may appear to be standardized bearings with standardized dimensions from approved and well-known suppliers. However, the bearings in Flygt products often have special tolerances and clearances of high importance. Using a similar bearing, where only the overall dimensions are identical, can seriously impair the bearing lifetime as well as overall product reliability, and in some cases rescind prior product approvals.



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Correct lubrication

Bearing grease is another vital factor for reliable bearing operation. Pre-greased bearings provide superior quality by keeping the level of contamination low.

Xylem has tested many grease types and brands to identify the best bearing greases. Flygt bearing greases have proven to be the most robust and reliable for the applications where Flygt products are used. For instance, Flygt's double row angular contact ball bearings are filled with a grease that is unique to Xylem.

Please note that all grease characteristics are not stated in the specifications from the grease manufacturers. Using grease from other manufacturers may therefore shorten bearing life or cause other bearing-related problems.

Bearing protection

Many Flygt bearings are supplied with low-friction shields that protect the bearing and grease from debris during operation as well as from contamination resulting from dust and particles during workshop repair. The right bearing shield is crucial for reliable operation and long service intervals.

One-stop shopping with unique Flygt part numbers

Bearings with unique Flygt part numbers ensure that the correct and appropriate bearings are ordered and installed for each specific requirement. In addition, they are always delivered together with all other Flygt spare parts ordered from Xylem.

Although bearings from other suppliers may have identical overall dimensions, there can be important differences that may be difficult to establish since many manufacturers use their own unique part numbers. Bearing comparison is therefore difficult, especially when selecting appropriate bearings for Ex-proof pumps and mixers.



Flygt products have a carefully selected range of bearings with bearing types and configurations from several well-known manufacturers.

The denomination specified on the outer race does not always provide sufficient information for bearing selection. This information alone is insufficient for selecting the right bearing and configuration intended for the specific pump or mixer.

As products develop, Xylem may change the bearing supplier or design for a certain product. In spite of these changes, you can always trust that you get the most appropriate bearing for your Flygt product when you order a bearing and refer to a specific Flygt part number.

Controlled quality minimizes the risk of bad samples

Flygt bearings are produced by selected well-known suppliers that live up to Xylem's high standards. Xylem checks that the manufacturers are capable of determining ratings and maintaining the ratings over time. Regular plant audits, inspection of manufacturer quality assurance programs, testing of capabilities and other measures secure the high quality of Flygt bearings.

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