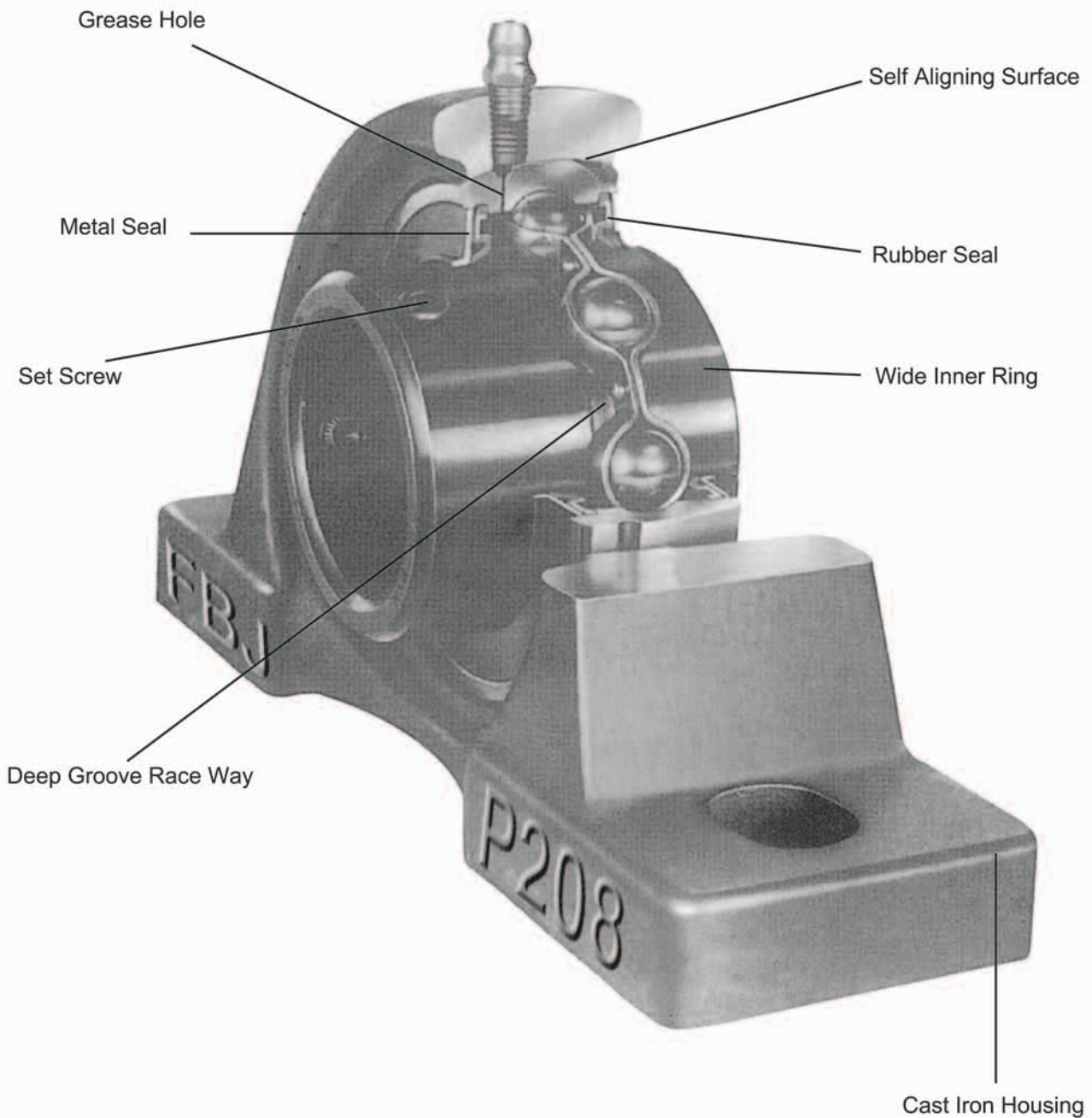


# Basic Structure



## 1. BASIC STRUCTURE OF FBJ PILLOW BLOCKS

### 1.1. FBJ Bearing units

The FBJ range of bearing units offer a wide choice of Cast Iron, Pressed Steel or Thermo – Plastic housings fitted with the full, range of bearing inserts, with spherical outer diameter and some with cylindrical outer diameter.

The general housing types are Pillow blocks, Flange units, Hanger Units, Cartridge units and Take-Up units. Choice is very much determined by the requirements of the application, although the aesthetic appearance of the machine design is often an important consideration. Self-Lube units have been designed to meet the needs of both criteria.

The castings are made from high-quality Gray cast iron (JIS, G5501) and finished on all un-machined surfaces with standard dimensions. Pressed steel housings are made from mild steel strips (JIS, 3141) and are zinc plated. In corrosive environment and Food industry, it is recommended to use Thermo – Plastic housings (VALOX 420) with Stainless Steel Bearing inserts.

### 1.2 FBJ Bearing inserts

The FBJ bearing insert, commonly known as a wide inner ring bearings, is designed to suit the wide range, of housings. FBJ bearing inserts also suitable for applications where the users own housing is preferred.

Bearing inserts are basically deep-groove ball bearings to the internationally popular 6, series configuration with integral design features making them more functional and versatile than the standard ball bearing. They are offered with either parallel or spherical outside diameter outer rings with the latter being the type fitted as standard in the bearing unit.

The integral design features of the bearing insert are such as shaft locking, seals and re-lubrication.

The inner rubber seals are firmly assembled on the outer ring and ensure perfect sealing of grease chamber. The steel shield or slingers rotate with inner ring and generate centrifugal force, by means of which dust is efficiently excluded.

FBJ offer two types of material for bearing insert, High Carbon Chromium Bearing Steel and Stainless Steel.