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**Accredited Standards
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Housing For Bearings With Spherical Outside Surfaces ANSI/ABMA 14:1995



Secretariat

**American Bearing
Manufacturers Association**

ANSI/ABMA 14:1995

Stabilized Maintenance 2010



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**American National Standard
ABMA Standard
Housings for Bearings with Spherical Outside Surfaces**

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Housings for Bearings with Spherical Outside Surfaces

1. Scope

This standard specifies boundary dimensions and tolerances for ball bearings with spherical outside surfaces and extended inner ring width. The feature of mating housing and bearing spherical surfaces is intended to provide initial self-alignment at mounting. Included are pillow block, flanged and take-up unit housings.

The housings in this standard are commonly made from ferrous materials. Those shown in tables 1, 2, 3 and 4 are generally cast, whereas those shown in tables 5, 6 and 7 are generally pressed.

Relubrication features are optional and may be designed to interface with the lubrication holes of mating bearings covered by ANSI/ABMA Standard 15, *Ball Bearings with Spherical Outside Surfaces and Extended Inner Ring Width (Includes Eccentric Locking Collars)*, so that bearings may be properly relubricated. This standard does not include the design or dimensions of relubrication features.

2. Symbols and definitions

Note 1 - The symbols (except those for tolerances) shown in the figures and given in the tables denote nominal dimensions unless otherwise specified.

2.1 Pillow block housings (see figure 1)

A	width of base
D_a	spherical seating diameter of housing, nominal
H_c	distance from mounting base to centerline of spherical seating diameter
H_A	distance from mounting base to centerline of spherical seating diameter of alternate design housing
H_1	height of feet
J	center distance between bolt holes, nominal
L	length of base
N	width of bolt hole
N_1	length of bolt hole

2.2 Flanged housings, square (see figure 2)

A	width (overall)
A_1	width of flange
D_a	spherical seating diameter of housing, nominal
J	center distance between bolt holes, nominal
L	length
N	diameter of bolt hole

2.3 Flanged housings, oval (see figure 3)

A	width (overall)
A_1	width of flange
D_a	spherical seating diameter of housing, nominal
H	height of flange
J	center distance between bolt holes, nominal
L	length
N	diameter of bolt hole