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(JBIA)

**Rolling bearings — Case and pressed housings for insert bearings**

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## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee as the result of proposal of revision of Japanese Industrial Standard submitted by the Japan Bearing Industrial Association (JBIA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS B 1559** :1995 is replaced with this Standard.

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Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

# Rolling bearings — Cast and pressed housing for insert bearings

## Introduction

This Japanese Industrial Standard has been prepared based on the third edition of **ISO 3228** published in 1993 by incorporating the parts corresponding to this Standard (quantity symbols, dimensions, tolerances and items related to tolerances) without any modification of the technical contents, but also adding some **JIS** specification contents that are not given in the said corresponding International Standard.

The portions given sidelines or dotted underlines and Annex JA are not contained in the corresponding International Standard. A list of modifications and their explanations is given in Annex JB.

## 1 Scope

This Standard specifies cast and pressed housings (hereafter referred to as “housings”) used for insert bearings given in JIS B 1558 (hereafter referred to as “bearings”).

This Standard is applicable to pillow block housings, flanged housings, take-up housings, and cartridge type housings.

The lubricator (lubrication hole and grease nipple) may be provided in the lubrication zone specified in **JIS B 1558** if necessary, and when provided, they should intersect this zone in such a way that lubricant will satisfactorily feed from the housing through this zone. The exact design of the apparatus is not otherwise covered by this Standard.

NOTE 1 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows:

**ISO 3228** : 1993 *Rolling bearings—Cast and pressed housings for insert bearings* (MOD)

The symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21**.

NOTE 2 The bearings specified in JIS B 1558 and the housings specified in this Standard together comprise the insert bearing units specified in JIS B 1557.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 0104 *Rolling bearings—Vocabulary*

NOTE : Corresponding International Standard : **ISO 5593** : 1984 *Rolling bearings—Vocabulary* (MOD)

JIS B 0401-1 *ISO system of limits and fits—Part 1 : Bases of tolerances, deviations and fits*

JIS B 1557 *Rolling bearings—Insert bearing units*

JIS B 1558 *Rolling bearings—Insert bearings and eccentric locking collars*

NOTE : Corresponding International Standard : **ISO 9628** : 2006 *Rolling bearings—Insert bearings and eccentric locking collars—Boundary dimensions and tolerances* (MOD)

JIS G 3131 *Hot-rolled mild steel plates, sheets, and strips*

JIS G 3141 *Cold-reduced carbon steel sheets and strips*

JIS G 5501 *Grey iron castings*

### 3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS B 0104** and **JIS B 1558** apply.

### 4 Quantity symbols

For the purpose of this Standard, the following quantity symbols apply.

The symbols shown in the following, except those for tolerances or items related to tolerances, denote nominal dimensions unless otherwise specified.

#### 4.1 Pillow block housings (see tables 2.1 to 3)

$A$  : width of mounting base

$D_a$  : inside diameter of spherical bearing seating

$D_{as}$  : actually measured inside diameter of spherical bearing seating

$G$  : designation of screw thread of mounting bolt

$H$  : distance from mounting base to centre of spherical bearing seating

$H_s$  : actually measured distance from mounting base to the centre of spherical bearing seating

$H_1$  : height of mounting seat

$H_2$  : overall height (excluding lubricator)

$J$  : centre distance between bolt holes

$L$  : length of mounting base

$N$  : width or diameter of mounting bolt hole

$N_1$  : length of mounting bolt hole

$\Delta H_s$  : deviation of actually measured distance from mounting base to centre of spherical bearing seating

#### 4.2 Flanged housings (see tables 4.1 to 8)

|                |                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------|
| $A$            | overall width                                                                                          |
| $A_1$          | width of mounting seat                                                                                 |
| $A_2$          | distance from mounting face to centre of spherical bearing seating                                     |
| $A_{2s}$       | actually measured distance from mounting face to centre of spherical bearing seating.                  |
| $A_3$          | width of spigot joint                                                                                  |
| $D_a$          | inside diameter of spherical bearing seating                                                           |
| $D_{as}$       | actually measured inside diameter of spherical bearing seating                                         |
| $G$            | designation of screw thread of mounting bolt                                                           |
| $H$            | height of rhombic flange or outside diameter of round flange and triangular flange                     |
| $H_1$          | distance from centre of spherical bearing seating to side                                              |
| $H_2$          | limit diameter of flat surface                                                                         |
| $H_3$          | spigot joint outside diameter                                                                          |
| $J$            | centre distance between mounting bolt holes or pitch circle diameter of mounting bolt hole centres     |
| $L$            | length of rhombic flange                                                                               |
| $N$            | diameter or length of mounting bolt holes                                                              |
| $X$            | positional tolerance of mounting bolt hole                                                             |
| $Y$            | circumferential runout tolerance of spigot joint in respect to axial line of spherical bearing seating |
| $\Delta_{A2s}$ | deviation of actually measured distance from mounting face to spherical bearing seating centre         |
| $\Delta_{H3s}$ | deviation of actually measured outside diameter of spigot joint                                        |
| $\Delta_{Js}$  | deviation of centre distance between mounting bolt holes or pitch circle diameter of bolt hole centres |
| $\Delta_{Ns}$  | deviation of actually measured side length or diameter of mounting bolt hole                           |

#### 4.3 Take-up housings (see tables 9.1 and 9.2)

|          |                                                                |
|----------|----------------------------------------------------------------|
| $A$      | width of mounting part                                         |
| $A_1$    | raceway groove width                                           |
| $A_2$    | width of groove flange                                         |
| $D_a$    | inside diameter of spherical bearing seating                   |
| $D_{as}$ | actually measured inside diameter of spherical bearing seating |
| $H$      | overall height                                                 |
| $H_1$    | distance between groove bottoms                                |
| $H_2$    | height of mounting part                                        |

$L$  : overall length

$L_1$  : distance from mounting part side face to spherical bearing seating centre

$L_2$  : thickness of mounting part

$L_3$  : groove length

$N$  : diameter of mounting hole

$N_1$  : length of mounting window

$N_2$  : height of mounting window

$X$  : symetricity tolerance of both groove-side face

$\Delta_{A1s}$  : deviation of actually measured groove width

$\Delta_{H1s}$  : deviation of actually measured distance between both groove bottoms

#### 4.4 Cartridge type housings (see tables 10.1 and 10.2)

$A$  : width

$D_a$  : inside diameter of spherical bearing seating

$D_{as}$  : actually measured inside diameter of spherical bearing seating

$H$  : outside diameter

$Y$  : circumferential runout tolerances of outside diameter in respect to shaft straight line of spherical bearing seating

$\Delta_{As}$  : deviation of actually measured width

$\Delta_{Hs}$  : actually measured outside diameter

## 5 Types

The housings shall be of types having spherical bearing seating, and be in accordance with table 1.

**Table 1 Types of housings**

| Types of housings                              |             | Shape figure and dimension table |                   |
|------------------------------------------------|-------------|----------------------------------|-------------------|
| Name of type                                   | Type symbol | Diameter series 2                | Diameter series 3 |
| Cast pillow block housings                     | P           | Table 2.1                        | Table 2.2         |
| Pressed pillow block housings                  | PP          | Table 3                          | —                 |
| Cast square flanged housings                   | F           | Table 4.1                        | Table 4.2         |
| Cast rhombic flanged housings                  | FL          | Table 5.1                        | Table 5.2         |
| Pressed round flanged housings                 | PF          | Table 6                          | —                 |
| Pressed triangular flanged housings            | PFT         |                                  |                   |
| Pressed rhombic flanged housings               | PFL         |                                  |                   |
| Cast round flanged housings with spigot joint  | FC          | Table 7                          | —                 |
| Cast square flanged housings with spigot joint | FS          | —                                | Table 8           |
| Cast take-up flanged housings                  | T           | Table 9.1                        | Table 9.2         |
| Cast cartridge type housings                   | C           | Table 10.1                       | Table 10.2        |

## 6 Designation

The housings shall be designated by the type symbol, diameter series symbol of combined bearings and bore diameter number, in this order, and shall be in accordance with tables 2.1 to 10.2.

There are two types, those conforming with **ISO 3228** and those not conforming, to cast pillow block housings, cast square flanged housings, cast rhombic flanged housings and cast take-up flanged housings of diameter series 2, and housings conforming with **ISO 3228** shall be marked with the letter “Y”.

The designation may additionally have an auxiliary number <sup>1)</sup> if necessary.

Note <sup>1)</sup> It expresses whether the housing is equipped with the lubricator or not, the material of the housing, or other matters, and shall be as agreed between the purchaser and the supplier.

## 7 Dimensions, tolerances and permissible values

The dimensions, tolerances and permissible values of housings shall be in accordance with tables 2.1 to 10.2.

For the tolerances on the inside diameter of spherical bearing seating ( $D_a$ ) of cast housings, the tolerance class H7, J7 or K7 as defined in **JIS B 0401-1** shall apply.

NOTE 1 Where the “min.” or “max.” are shown in the tables, this indicates that the value is the smallest actual value permitted or the largest actual value permitted, respectively.

NOTE 2 The figures shown in the tables are given only for examples.

## 8 Appearance

The surface of housings shall be free from cavities, cracks, flaws, burrs and other detrimental defects.

Painted or surface-treated housings shall be free from peeling of the paint and film of surface treatment.

## 9 Painting and surface treatment

As required, the housings may be painted or surface-treated (chemical treatment, plating, etc.).

## 10 Material

The cast housings shall be made of FC200 specified in **JIS G 5501** or other cast products with at least equivalent strength. The pressed housings shall be made of steel plates specified in **JIS G 3131** or **JIS G 3141** or other steel plates with at least equivalent strength.

## 11 Measuring methods

### 11.1 Distance from the mounting base of cast pillow block housing to the centre of spherical bearing seating ( $H$ )

Place a housing on a plane, and read out the distance between the plane and the deepest part of the bearing seating applying the gauge head to the deepest part of the bearing seating. Consider this measured value added with  $1/2$  the value of the actually measured inside diameter of spherical bearing seating ( $D_{as}$ ) to be  $H_s$  (figure 1).

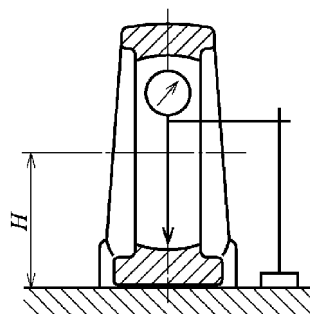


Figure 1 Example of measurement of  $H$

### 11.2 Distance from the mounting face of cast flanged housing to the centre of spherical bearing seating ( $A_2$ )

Fix a housing on a plane, and obtain the average of the height of the upper end face of measuring ring from the plane by moving the measuring ring up and down. Consider this measured value reduced by  $1/2$  the value of the diameter of measuring ring to be  $A_{2s}$  (figure 2).

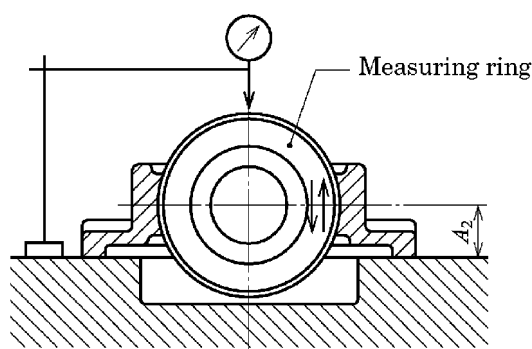


Figure 2 Example of measurement of  $A_2$

## 12 Inspection

The housings shall be inspected on dimensions, tolerances, permissible values, and appearance, and shall satisfy the requirements in clauses 7 and 8.

## 13 Packaging

The housings shall be rust-proofed by oil and grease or the like as required and then packaged.

## **14 Marking**

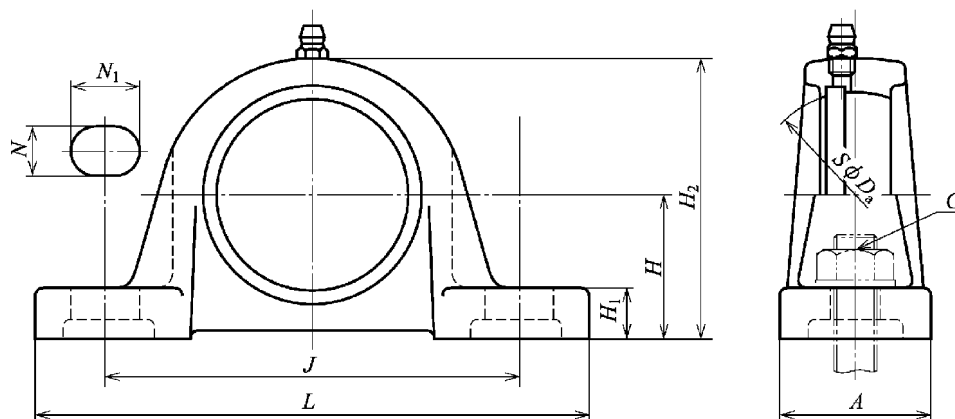
### **14.1 Marking on products**

The housings shall bear the markings of the designation and the manufacturer's name (or its abbreviation).

### **14.2 Marking on packaging**

The packaging of housings shall be marked with the designation, quantity, the manufacturer's name (or its abbreviation) and year and month of manufacture (or its abbreviation). If the unit quantity is one, the marking of the quantity may be omitted.

**Table 2.1 Designations, dimensions, tolerances and permissible values of cast pillow housings of diameter series 2**



Unit : mm

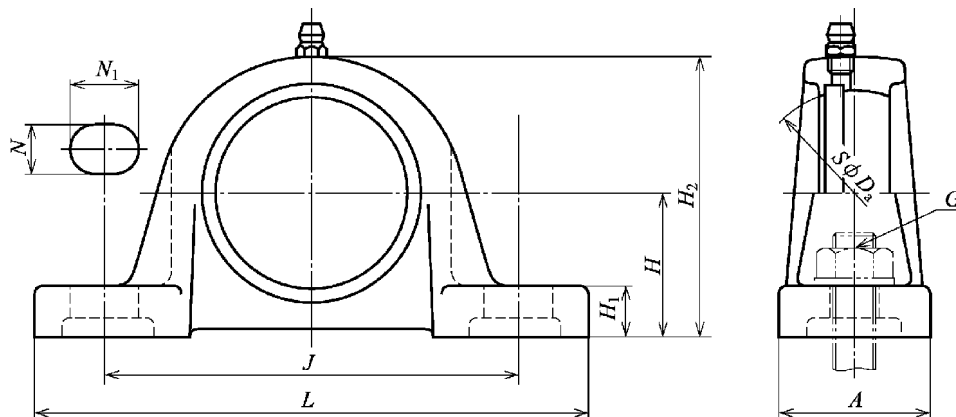
| Designation | $D_a$ | $L$  | $A$  | $J$ | $H$  | $\Delta H_2$ | $H_1$ | $N$   |      | $N_1$ | $H_2$ | $G$<br>(informative) |
|-------------|-------|------|------|-----|------|--------------|-------|-------|------|-------|-------|----------------------|
|             |       | max. | max. |     |      |              | max.  | max.  | min. | min.  | max.  |                      |
| P203Y       | 40    | 129  | 39   | 96  | 30.2 | $\pm 0.25$   | 17    | 12.43 | 10.5 | 16    | 63    | M10                  |
| P203        | 47    | 129  | 40   | 95  | 30.2 | $\pm 0.15$   | 17    | 14.5  | 11.5 | 13    | 63    | M10                  |
| P204Y       | 47    | 134  | 39   | 96  | 33.3 | $\pm 0.25$   | 17    | 12.43 | 10.5 | 16    | 66    | M10                  |
| P204        | 47    | 129  | 40   | 95  | 33.3 | $\pm 0.15$   | 17    | 14.5  | 11.5 | 13    | 66    | M10                  |
| P205Y       | 52    | 142  | 39   | 105 | 36.5 | $\pm 0.25$   | 17    | 12.43 | 10.5 | 16    | 73    | M10                  |
| P205        | 52    | 142  | 40   | 105 | 36.5 | $\pm 0.15$   | 18    | 14.5  | 11.5 | 13    | 73    | M10                  |
| P206Y       | 62    | 167  | 48   | 121 | 42.9 | $\pm 0.25$   | 20    | 14.93 | 13   | 19    | 87    | M12                  |
| P206        | 62    | 167  | 50   | 121 | 42.9 | $\pm 0.15$   | 20    | 18.5  | 15.5 | 17    | 87    | M14                  |
| P207Y       | 72    | 172  | 48   | 126 | 47.6 | $\pm 0.25$   | 20    | 14.93 | 13   | 19    | 96    | M12                  |
| P207        | 72    | 169  | 50   | 127 | 47.6 | $\pm 0.15$   | 21    | 18.5  | 15.5 | 17    | 96    | M14                  |
| P208Y       | 80    | 186  | 55   | 136 | 49.2 | $\pm 0.25$   | 20    | 14.93 | 13   | 19    | 101   | M12                  |
| P208        | 80    | 186  | 56   | 137 | 49.2 | $\pm 0.15$   | 21    | 18.5  | 15.5 | 17    | 101   | M14                  |
| P209Y       | 85    | 192  | 55   | 146 | 54   | $\pm 0.3$    | 22    | 14.93 | 13   | 19    | 109   | M12                  |
| P209        | 85    | 192  | 56   | 146 | 54   | $\pm 0.15$   | 23    | 18.5  | 15.5 | 17    | 109   | M14                  |
| P210Y       | 90    | 208  | 61   | 159 | 57.2 | $\pm 0.3$    | 23    | 19.02 | 17   | 20.5  | 117   | M16                  |
| P210        | 90    | 208  | 62   | 159 | 57.2 | $\pm 0.15$   | 24    | 21.5  | 18.5 | 20    | 117   | M16                  |
| P211Y       | 100   | 233  | 61   | 172 | 63.5 | $\pm 0.3$    | 25    | 19.02 | 17   | 20.5  | 128   | M16                  |
| P211        | 100   | 221  | 62   | 171 | 63.5 | $\pm 0.2$    | 26    | 21.5  | 18.5 | 20    | 128   | M16                  |
| P212Y       | 110   | 243  | 71   | 186 | 69.9 | $\pm 0.3$    | 27    | 19.02 | 17   | 22    | 144   | M16                  |
| P212        | 110   | 243  | 72   | 184 | 69.8 | $\pm 0.2$    | 28    | 21.5  | 18.5 | 20    | 142   | M16                  |
| P213Y       | 120   | 268  | 73   | 203 | 76.2 | $\pm 0.3$    | 34    | 24.52 | 21   | 24    | 157   | M20                  |
| P213        | 120   | 268  | 72   | 203 | 76.2 | $\pm 0.2$    | 31    | 26.5  | 23.5 | 25    | 155   | M20                  |
| P214Y       | 125   | 274  | 74   | 210 | 79.4 | $\pm 0.3$    | 34    | 24.52 | 21   | 24    | 162   | M20                  |
| P214        | 125   | 269  | 74   | 210 | 79.4 | $\pm 0.2$    | 31    | 26.5  | 23.5 | 25    | 160   | M20                  |
| P215Y       | 130   | 300  | 83   | 217 | 82.6 | $\pm 0.35$   | 35    | 24.52 | 21   | 24    | 168   | M20                  |
| P215        | 130   | 278  | 76   | 217 | 82.6 | $\pm 0.2$    | 32    | 26.5  | 23.5 | 25    | 166   | M20                  |

**Table 2.1 (concluded)**

Unit : mm

| Designation      | $D_a$ | $L$  | $A$  | $J$ | $H$   | $\Delta H_3$ | $H_1$ | $N$   |      | $N_1$ | $H_2$ | $G$<br>(informative) |
|------------------|-------|------|------|-----|-------|--------------|-------|-------|------|-------|-------|----------------------|
|                  |       | max. | max. |     |       |              | max.  | max.  | min. | min.  | max.  |                      |
| <del>P216Y</del> | 140   | 305  | 84   | 232 | 88.9  | $\pm 0.35$   | 38    | 24.52 | 21   | 24    | 181   | M20                  |
| <del>P216</del>  | 140   | 295  | 80   | 232 | 88.9  | $\pm 0.2$    | 34    | 26.5  | 23.5 | 25    | 179   | M20                  |
| <del>P217Y</del> | 150   | 330  | 95   | 247 | 95.2  | $\pm 0.35$   | 41    | 24.52 | 21   | 24    | 193   | M20                  |
| <del>P217</del>  | 150   | 313  | 85   | 247 | 95.2  | $\pm 0.2$    | 36    | 26.5  | 23.5 | 25    | 191   | M20                  |
| <del>P218Y</del> | 160   | 356  | 100  | 262 | 101.6 | $\pm 0.35$   | 44    | 28.52 | 25   | 34    | 206   | M24                  |
| <del>P218</del>  | 160   | 330  | 90   | 262 | 101.6 | $\pm 0.2$    | 38    | 28.5  | 25.5 | 27    | 204   | M22                  |
| <del>P220Y</del> | 180   | 390  | 111  | 308 | 115   | $\pm 0.35$   | 46    | 28.52 | 25   | 34    | 233   | M24                  |

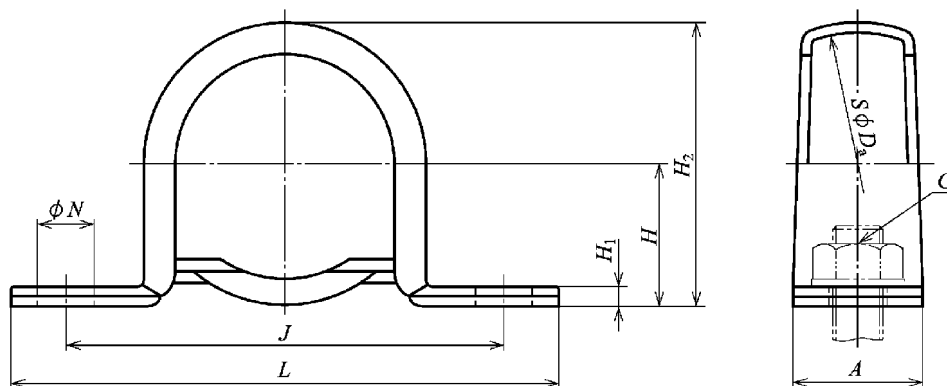
**Table 2.2 Designations, dimensions, tolerances and permissible values of cast pillow block housings of diameter series 3**



Unit : mm

| Designation | $D_a$ | $L$  | $A$  | $J$ | $H$ | $\Delta H_s$ | $H_1$ | $N$  |      | $N_1$ | $H_2$ | $G$<br>(informative) |
|-------------|-------|------|------|-----|-----|--------------|-------|------|------|-------|-------|----------------------|
|             |       | max. | max. |     |     |              | max.  | max. | min. | min.  | max.  |                      |
| P305        | 62    | 177  | 47   | 132 | 45  | $\pm 0.15$   | 18    | 18.5 | 15.5 | 18    | 91    | M14                  |
| P306        | 72    | 182  | 52   | 140 | 50  | $\pm 0.15$   | 21    | 18.5 | 15.5 | 18    | 102   | M14                  |
| P307        | 80    | 212  | 58   | 160 | 56  | $\pm 0.15$   | 23    | 18.5 | 15.5 | 23    | 114   | M14                  |
| P308        | 90    | 222  | 62   | 170 | 60  | $\pm 0.15$   | 25    | 18.5 | 15.5 | 25    | 122   | M14                  |
| P309        | 100   | 247  | 69   | 190 | 67  | $\pm 0.15$   | 27    | 21.5 | 18.5 | 28    | 136   | M16                  |
| P310        | 110   | 278  | 77   | 212 | 75  | $\pm 0.15$   | 30    | 21.5 | 18.5 | 33    | 152   | M16                  |
| P311        | 120   | 313  | 82   | 236 | 80  | $\pm 0.2$    | 33    | 21.5 | 18.5 | 36    | 162   | M16                  |
| P312        | 130   | 333  | 87   | 250 | 85  | $\pm 0.2$    | 35    | 26.5 | 23.5 | 36    | 172   | M20                  |
| P313        | 140   | 343  | 92   | 260 | 90  | $\pm 0.2$    | 38    | 26.5 | 23.5 | 36    | 182   | M20                  |
| P314        | 150   | 363  | 92   | 280 | 95  | $\pm 0.2$    | 42    | 28.5 | 25.5 | 38    | 192   | M22                  |
| P315        | 160   | 383  | 102  | 290 | 100 | $\pm 0.2$    | 42    | 28.5 | 25.5 | 38    | 202   | M22                  |
| P316        | 170   | 403  | 112  | 300 | 106 | $\pm 0.2$    | 47    | 28.5 | 25.5 | 38    | 215   | M22                  |
| P317        | 180   | 424  | 112  | 320 | 112 | $\pm 0.2$    | 47    | 34.5 | 31.5 | 43    | 227   | M27                  |
| P318        | 190   | 434  | 112  | 330 | 118 | $\pm 0.2$    | 52    | 34.5 | 31.5 | 43    | 239   | M27                  |
| P319        | 200   | 474  | 122  | 360 | 125 | $\pm 0.3$    | 52    | 37.5 | 34.5 | 48    | 253   | M30                  |
| P320        | 215   | 494  | 122  | 380 | 140 | $\pm 0.3$    | 57    | 37.5 | 34.5 | 48    | 283   | M30                  |
| P321        | 225   | 494  | 122  | 380 | 140 | $\pm 0.3$    | 57    | 37.5 | 34.5 | 48    | 283   | M30                  |
| P322        | 240   | 524  | 142  | 400 | 150 | $\pm 0.3$    | 62    | 41.5 | 38.5 | 53    | 303   | M33                  |
| P324        | 260   | 574  | 142  | 450 | 160 | $\pm 0.3$    | 72    | 41.5 | 38.5 | 53    | 323   | M33                  |
| P326        | 280   | 604  | 142  | 480 | 180 | $\pm 0.3$    | 82    | 41.5 | 38.5 | 53    | 363   | M33                  |
| P328        | 300   | 624  | 142  | 500 | 200 | $\pm 0.3$    | 82    | 41.5 | 38.5 | 53    | 403   | M33                  |

**Table 3 Designations, dimensions, tolerances and permissible values of pressed pillow block housings of diameter series 2**



Unit : mm

| Designation | $D_a$ | $L$  | $A$  | $J$ | $\Delta J_s$ | $H$  | $H_1$ | $N$  | $\Delta N_s$ | $H_2$ | $G$<br>(informative) |
|-------------|-------|------|------|-----|--------------|------|-------|------|--------------|-------|----------------------|
|             |       | max. | max. |     |              |      | max.  |      |              | max.  |                      |
| PP203       | 40    | 87   | 26   | 68  | $\pm 0.4$    | 22.2 | 4     | 9.5  | $\pm 0.5$    | 44.2  | M 8                  |
| PP204       | 47    | 99   | 33   | 76  | $\pm 0.4$    | 25.4 | 4     | 9.5  | $\pm 0.5$    | 50.9  | M 8                  |
| PP205       | 52    | 109  | 33   | 86  | $\pm 0.4$    | 28.6 | 4.5   | 11.5 | $\pm 0.5$    | 56.9  | M10                  |
| PP206       | 62    | 119  | 39   | 95  | $\pm 0.4$    | 33.3 | 4.5   | 11.5 | $\pm 0.5$    | 66.6  | M10                  |
| PP207       | 72    | 130  | 43   | 106 | $\pm 0.4$    | 39.7 | 5     | 11.5 | $\pm 0.5$    | 78.2  | M10                  |
| PP208       | 80    | 148  | 43   | 120 | $\pm 0.4$    | 43.7 | 5     | 13   | $\pm 0.5$    | 86.2  | M12                  |
| PP209       | 85    | 156  | 45   | 128 | $\pm 0.4$    | 46.8 | 6     | 13   | $\pm 0.5$    | 92.3  | M12                  |