

Diameter series refer to the dimension series of outer diameter of the bearings with the same inner diameter. The outside dimensions are 7, 8, 9, 0, 1, 2, 3, 4, etc. which are increasing series.

Width series refer to the dimension of width dimension of the bearings with the same diameter. There are width dimensions are 7, 8, 9, 0, 1, 2, 3, 4, etc. which are increasing series.

The height series of thrust bearings correspond to the width series of radial bearings, with four increasing series of height dimensions, 7, 9, 1, 2, etc. See Table 2.1.

The bearing dimension series number are consist of the width (height) series codes and the diameter series codes.

See Fig. 2.4 and Fig. 2.5 for their relations.

For metric system tapered roller bearings, ISO 355 specifies that the diameter series of the relative inner diameters are represented by A, B, C, D, E, F and G, the outer diameters are increasing series, and width dimensions are represented by A, B, C, D and E, which are incremental, in addition, specifies the contact angle series (1, 2, 3, 4, 5, 6, 7), which are increasing series. The standards of China specify that the diameter series and width series are both 0, 1, 2 and 3.

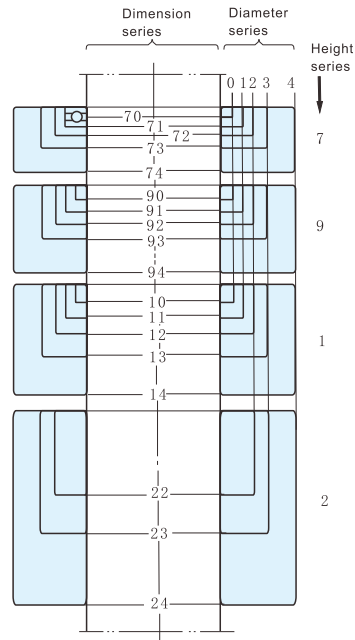


Fig. 2.5 Dimension series of thrust bearings

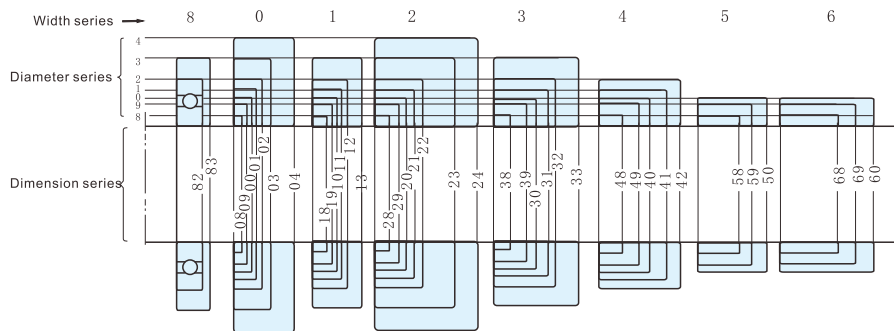


Fig. 2.4 Dimension series of radial bearings(excluding tapered roller bearings)

2.2 Structure of bearing number

Bearings number is consist of basic number. Prefix code and suffix code. In which basic number describes bearing type ,structure and size while prefix code or suffix code is bearing shape ,tolerance and some Supplementary specification when technical requirement is changed .

Table 2.2 Arrangement rules of bearing codes

	Prefix code	Basic number		Suffix code								
				1	2	3	4	5	6	7	8	
Example	Whole seal bearing component	Type code	Dimension series code	Inner diameter code	Internal structure	Transformation of seal and shield	Cage and its material	Bearing material	Class of tolerance	Clearance	Arrangement	Other
6204-2RZ/P53		6	(0)2	04		2RZ			P5	C3		

2.2 Basic number

Except needle roller bearings, the basic number of the bearing whose dimension conforms to any of GB/T273.1, GB/T273.2, GB/T273.3 and GB 3882 and consists of bearing type code, dimension Series code and inner diameter code.

Basic number:

In the basic number, when the bearing number is represented by letters, there shall be a space of half character between the the bearing dimensional series code, inner diameter code or mounting fit characteristic number.

For example: NU 2300

For general bearing types, dimension series code and bearing basic numbers consisting of bearing type code and dimension series code. See Table 2.3