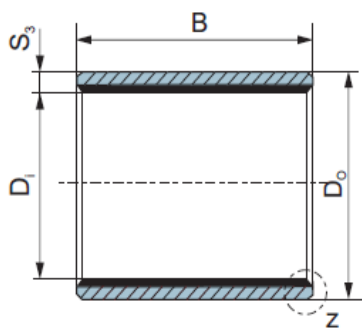


Bushing Tolerances

Wrapped Bushings

It is not possible to accurately measure the external and internal diameters of a wrapped bushing in its free condition. In the free state, a wrapped bushing will not be perfectly cylindrical. The bushing will conform to the housing when the split is tightly closed. For this reason the OD & ID of a wrapped bushing can only be checked with special gauges and test equipment.

Below is an example on how to determine the bushing's ID & OD tolerances with respect to the mating shaft and housing tolerances after installation:

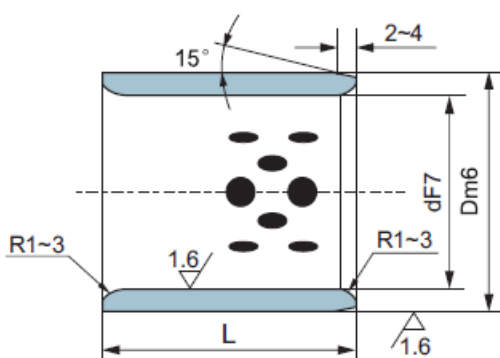


Units: mm				
Shaft D_s	Housing H7 D_H	OD tolerance D_o	ID after fixed $D_{i,s}$	Clearance C_o
6 -0.010 -0.022	8 +0.015	8 +0.055 +0.025	6.055 5.990	0.077 0.000

The chart and diagram shows that after installation this bushing will have a total OD tolerance of **0.030 mm**. Also, the ID tolerance is **0.065 mm** after installation.

Standard Bushings (non-wrapped)

Standard bushing tolerances are specified on their respective dimension tables. For example:



Units: mm			
dF7		Dm6	
8	+0.028 +0.013	12	+0.018 +0.007
10		14	

If a bushing with an **8 mm** ID (d) and a **12 mm** OD (D) is used, the ID (d) dimension specifies an **F7** tolerance which corresponds to **13 μ m / 28 μ m**. The OD (D) dimension specifies an **m6** tolerance which corresponds to **7 μ m / 18 μ m**.

Note: Uppercase tolerances refer to different values from lowercase tolerances.