

Unit = .001 mm  
(.0001 in.)

## Tolerances of spherical inside diameter of housings

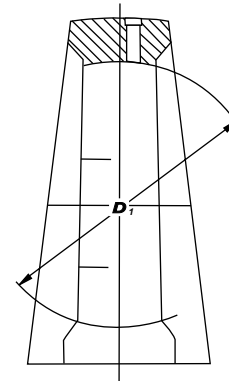
Normal Spherical Inside Diameter				Symbol H				Symbol J				Symbol K			
D1		D1		D1m		D1		D1m		D1		D1m		D1	
Over	Incl.	Over	Incl.	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
mm	in.	mm	in.												
30	1.1811	50	1.9685	+25 (+10)	0	+30 (+12)	-5 (-2)	+14 (+6)	-11 (-4)	+19 (+7)	-16 (-6)	+7 (+3)	-18 (-7)	+12 (+5)	-23 (-9)
50	1.9685	80	3.1496	+30 (+12)	0	+38 (+14)	-6 (-2)	+18 (+7)	-12 (-5)	+24 (+9)	-18 (-7)	+9 (+4)	-21 (-8)	+15 (+6)	-27 (-11)
80	3.1496	120	4.7244	+35 (+14)	0	+42 (+17)	-7 (-3)	+22 (+9)	-13 (-5)	+29 (+11)	-20 (-8)	+10 (+4)	-25 (-10)	+17 (+7)	-32 (-13)
120	4.7244	180	7.0866	+40 (+16)	0	+48 (+19)	-8 (-3)	+26 (+10)	-14 (-6)	+34 (+13)	-22 (-9)	+12 (+5)	-28 (-11)	+20 (+8)	-36 (-14)
180	7.0866	250	9.8425	+46 (+18)	0	+55 (+22)	-9 (-4)	+80 (+12)	-16 (-6)	+39 (+15)	-25 (-10)	+13 (+5)	-33 (-13)	+22 (+9)	-42 (-17)
250	9.8425	315	12.4016	+52 (+20)	0	+62 (+24)	-10 (-4)	+36 (+14)	-16 (-6)	+46 (+18)	-26 (-10)	+16 (+6)	-36 (-14)	+26 (+10)	-46 (-18)

D1m is determined by the following equation:

$$D1 = \frac{D1_{max} + D1_{min}}{2}$$

Where D1max and D1min are maximum and minimum measurements of D1, respectively.

For practical purposes, bearing/housing EBC fit is often expressed in terms of foot pounds of misalignment torque. EBC mounted units are typically machined to provide for a light interference fit. However, for special applications, EBC can provide clearance fit (H) or substantial interference fit (K).



## MATERIALS OF HOUSINGS

### Gray Iron

Cast in high strength gray iron, EBC standard cast housings are among the most rigidly designed and heaviest available in the industry. This enables EBC housings to withstand high vibration and shock loading.

### Stainless Steel

See page 4-18 for complete details.