



Inner Ring Tolerance - Metric							
Nominal ID [mm]	Above	2.5	10	18	30	50	80
	Including	10	18	30	50	80	120
$\Delta_{dmp}$ [ $\mu m$ ]	Max	0	0	0	0	0	0
Average ID tolerance	Min	-4.0	-4.0	-5.0	-6.0	-7.0	-8.0
$\Delta_{ds}$ (Bearing Series 60 & 62) [ $\mu m$ ]	Max	0	0	0	0	0	0
Single ID tolerance	Min	-4.0	-4.0	-5.0	-6.0	-7.0	-8.0
$V_{dp \max}$ (Bearing Series 618 & 619) [ $\mu m$ ]	Max	4.0	4.0	5.0	6.0	7.0	8.0
Difference between largest and smallest ID							
$V_{dp \max}$ (Bearing Series 60) [ $\mu m$ ]	Max	3.0	3.0	4.0	5.0	5.0	6.0
Difference between largest and smallest ID							
$V_{dp \max}$ (Bearing Series 62) [ $\mu m$ ]	Max	3.0	3.0	4.0	5.0	5.0	6.0
Difference between largest and smallest ID							
$V_{dmp \max}$ [ $\mu m$ ]	Max	2.0	2.0	2.5	3.0	3.5	4.0
Difference between largest average ID and smallest average ID in different planes							
$K_{ia \max}$ [ $\mu m$ ]	Max	2.5	2.5	3.0	4.0	4.0	5.0
Assembled bearing inner ring radial runout							
$S_d \max$ [ $\mu m$ ]	Max	3.0	3.0	4.0	4.0	5.0	5.0
Inner ring face runout							
$S_{ia \max}$ [ $\mu m$ ]	Max	3.0	3.0	4.0	4.0	5.0	5.0
Assembled bearing inner ring axial runout							
$\Delta_{BS}$ Single Bearing [ $\mu m$ ]	Max	0	0	0	0	0	0
Single inner ring width tolerance	Min	-40	-80	-120	-120	-150	-200
$\Delta_{BS}$ Bearing Pair [ $\mu m$ ]	Max	0	0	0	0	0	0
Inner ring pair width tolerance	Min	-250	-250	-250	-250	-250	-380
$V_{BS \max}$ [ $\mu m$ ]	Max	2.5	2.5	2.5	3.0	4.0	4.0
Difference between largest and smallest width							

Inner Ring Tolerance - Imperial							
Nominal ID [inch]	Above	0.0984	0.3937	0.7087	1.1811	1.9685	3.1496
	Including	0.3937	0.7087	1.1811	1.9685	3.1496	4.7244
$\Delta_{dmp}$ [0.0001"]	Max	0	0	0	0	0	0
Average ID tolerance	Min	-1.6	-1.6	-2.0	-2.4	-2.8	-3.1
$\Delta_{ds}$ (Bearing Series 60 & 62) [0.0001"]	Max	0	0	0	0	0	0
Single ID tolerance	Min	-1.6	-1.6	-2.0	-2.4	-2.8	-3.1
$V_{dp \max}$ (Bearing Series 618 & 619) [0.0001"]	Max	1.6	1.6	2.0	2.4	2.8	3.1
Difference between largest and smallest ID							
$V_{dp \max}$ (Bearing Series 60) [0.0001"]	Max	1.2	1.2	1.6	2.0	2.0	2.4
Difference between largest and smallest ID							
$V_{dp \max}$ (Bearing Series 62) [0.0001"]	Max	1.2	1.2	1.6	2.0	2.0	2.4
Difference between largest and smallest ID							
$V_{dmp \max}$ [0.0001"]	Max	0.8	0.8	1.0	1.2	1.4	1.6
Difference between largest average ID and smallest average ID in different planes							
$K_{ia \max}$ [0.0001"]	Max	1.0	1.0	1.2	1.6	1.6	2.0
Assembled bearing inner ring radial runout							
$S_d \max$ [0.0001"]	Max	1.2	1.2	1.6	1.6	2.0	2.0
Inner ring face runout							
$S_{ia \max}$ [0.0001"]	Max	1.2	1.2	1.6	1.6	2.0	2.0
Assembled bearing inner ring axial runout							
$\Delta_{BS}$ Single Bearing [0.0001"]	Max	0	0	0	0	0	0
Single inner ring width tolerance	Min	-15.7	-31.5	-47.2	-47.2	-59.1	-78.7
$\Delta_{BS}$ Bearing Pair [0.0001"]	Max	0	0	0	0	0	0
Inner ring pair width tolerance	Min	-98.4	-98.4	-98.4	-98.4	-98.4	-149.6
$V_{BS \max}$ [0.0001"]	Max	1.0	1.0	1.0	1.2	1.6	1.6
Difference between largest and smallest width							

Outer Ring Tolerance - Metric								
Nominal OD [mm]	Above	6	18	30	50	80	120	150
	Including	18	30	50	80	120	150	180
$\Delta_{dmp}$ [ $\mu m$ ]	Max	0	0	0	0	0	0	0
Average OD tolerance	Min	-4.0	-5.0	-6.0	-7.0	-8.0	-9.0	-10.0
$\Delta_{Ds}$ (Bearing Series 60 & 62) [ $\mu m$ ]	Max	0	0	0	0	0	0	0
Single OD tolerance	Min	-4.0	-5.0	-6.0	-7.0	-8.0	-9.0	-10.0
$V_{Dp \max}$ (Bearing Series 618 & 619) [ $\mu m$ ]	Max	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Difference between largest and smallest OD								
$V_{Dp \max}$ (Bearing Series 60) [ $\mu m$ ]	Max	3.0	4.0	5.0	5.0	6.0	7.0	8.0
Difference between largest and smallest OD								
$V_{Dp \max}$ (Bearing Series 62) [ $\mu m$ ]	Max	3.0	4.0	5.0	5.0	6.0	7.0	8.0
Difference between largest and smallest OD								
$V_{Dmp \max}$ [ $\mu m$ ]	Max	2.0	2.5	3.0	3.5	4.0	5.0	5.0
Difference between largest average OD and smallest average OD in different planes								
$K_{ea \max}$ [ $\mu m$ ]	Max	3.0	4.0	5.0	5.0	6.0	7.0	8.0
Assembled bearing outer ring radial runout								
$S_D \max$ [ $\mu m$ ]	Max	4.0	4.0	4.0	4.0	5.0	5.0	5.0
Outer ring face runout								
$S_{ea \max}$ [ $\mu m$ ]	Max	5.0	5.0	5.0	5.0	6.0	7.0	8.0
Assembled bearing outer ring axial runout								
$\Delta_{CS}$ Single Bearing [ $\mu m$ ]	Max	Identical to the $\Delta_{BS}$ of the inner ring of the same bearing						
Single outer ring width tolerance	Min							
$\Delta_{CS}$ Bearing Pair [ $\mu m$ ]	Max	Identical to the $\Delta_{BS}$ of the inner ring of the same bearing						
Outer ring pair width tolerance	Min							
$V_{CS \max}$ [ $\mu m$ ]	Max	2.5	2.5	2.5	3.0	4.0	5.0	5.0
Difference between largest and smallest width								

Outer Ring Tolerance - Imperial								
Nominal OD [Inch]	Above	0.2362	0.7087	1.1811	1.9685	3.1496	4.7244	5.9055
	Including	0.7087	1.1811	1.9685	3.1496	4.7244	5.9055	7.0866
$\Delta_{dmp}$ [0.0001"]	Max	0	0	0	0	0	0	0
Average OD tolerance	Min	-1.6	-2.0	-2.4	-2.8	-3.1	-3.5	-3.9
$\Delta_{Ds}$ (Bearing Series 60 & 62) [0.0001"]	Max	0	0	0	0	0	0	0
Single OD tolerance	Min	-1.6	-2.0	-2.4	-2.8	-3.1	-3.5	-3.9
$V_{Dp \max}$ (Bearing Series 618 & 619) [0.0001"]	Max	1.6	2.0	2.4	2.8	3.1	3.5	3.9
Difference between largest and smallest OD								
$V_{Dp \max}$ (Bearing Series 60) [0.0001"]	Max	1.2	1.6	2.0	2.0	2.4	2.8	3.1
Difference between largest and smallest OD								
$V_{Dp \max}$ (Bearing Series 62) [0.0001"]	Max	1.2	1.6	2.0	2.0	2.4	2.8	3.1
Difference between largest and smallest OD								
$V_{Dmp \max}$ [0.0001"]	Max	0.8	1.0	1.2	1.4	1.6	2.0	2.0
Difference between largest average OD and smallest average OD in different planes								
$K_{ea \max}$ [0.0001"]	Max	1.2	1.6	2.0	2.0	2.4	2.8	3.1
Assembled bearing outer ring radial runout								
$S_D \max$ [0.0001"]	Max	1.6	1.6	1.6	1.6	2.0	2.0	2.0
Outer ring face runout								
$S_{ea \max}$ [0.0001"]	Max	2.0	2.0	2.0	2.0	2.4	2.8	3.1
Assembled bearing outer ring axial runout								
$\Delta_{CS}$ Single Bearing [0.0001"]	Max	Identical to the $\Delta_{BS}$ of the inner ring of the same bearing						
Single outer ring width tolerance	Min							
$\Delta_{CS}$ Bearing Pair [0.0001"]	Max	Identical to the $\Delta_{BS}$ of the inner ring of the same bearing						
Outer ring pair width tolerance	Min							
$V_{CS \max}$ [0.0001"]	Max	1.0	1.0	1.0	1.2	1.6	2.0	2.0
Difference between largest and smallest width								