



Inner Ring Tolerance - Metric							
Nominal ID [mm]	Above	2.5	10	18	30	50	80
	Including	10	18	30	50	80	120
Δ_{dmp} [μm]	Max	0	0	0	0	0	
Average ID tolerance	Min	-3.0	-3.0	-3.0	-3.0	-4.0	
Δ_{dis} (Bearing Series 60 & 62) [μm]	Max	0	0	0	0	0	
Single ID tolerance	Min	-3.0	-3.0	-3.0	-3.0	-4.0	
$V_{dp\ max}$ (Bearing Series 618 & 619) [μm]	Max	3.0	3.0	3.0	3.0	4.0	
Difference between largest and smallest ID	Max	3.0	3.0	3.0	3.0	4.0	
$V_{dp\ max}$ (Bearing Series 60) [μm]	Max	3.0	3.0	3.0	3.0	4.0	
Difference between largest and smallest ID	Max	3.0	3.0	3.0	3.0	4.0	
$V_{dp\ max}$ (Bearing Series 62) [μm]	Max	3.0	3.0	3.0	3.0	4.0	
Difference between largest and smallest ID	Max	3.0	3.0	3.0	3.0	4.0	
$V_{dmp\ max}$ [μm]	Max	2.0	2.0	2.0	2.0	2.5	
Difference between largest average ID and smallest average ID in different planes	Max	2.0	2.0	2.0	2.0	2.5	
$K_{ia\ max}$ [μm]	Max	1.5	1.5	1.5	2.0	2.0	
Assembled bearing inner ring radial runout	Max	1.5	1.5	1.5	2.0	2.0	
$S_{d\ max}$ [μm]	Max	2.0	2.0	2.0	2.0	2.0	
Inner ring face runout	Max	2.0	2.0	2.0	2.0	2.0	
$S_{ia\ max}$ [μm]	Max	2.0	2.0	2.5	2.5	2.5	
Assembled bearing inner ring axial runout	Max	2.0	2.0	2.5	2.5	2.5	
Δ_{BS} Single Bearing [μm]	Max	0	0	0	0	0	
Single inner ring width tolerance	Min	-25	-80	-120	-120	-150	
Δ_{BS} Bearing Pair [μm]	Max	0	0	0	0	0	
Inner ring pair width tolerance	Min	-250	-250	-250	-250	-250	
$V_{BS\ max}$ [μm]	Max	2.0	2.0	2.0	2.0	2.0	
Difference between largest and smallest width	Max	2.0	2.0	2.0	2.0	2.0	

Outer Ring Tolerance - Metric								
Nominal OD [mm]	Above	6	18	30	50	80	120	150
	Including	18	30	50	80	120	150	180
Δ_{dmp} [μm]	Max	0	0	0	0	0		
Average OD tolerance	Min	-3.0	-3.0	-3.0	-4.0	-4.0		
Δ_{Ds} (Bearing Series 60 & 62) [μm]	Max	0	0	0	0	0		
Single OD tolerance	Min	-3.0	-3.0	-3.0	-4.0	-4.0		
$V_{Dp\ max}$ (Bearing Series 618 & 619) [μm]	Max	2.0	2.0	2.0	4.0	4.0		
Difference between largest and smallest OD	Max	2.0	2.0	2.0	4.0	4.0		
$V_{Dp\ max}$ (Bearing Series 60) [μm]	Max	2.0	2.0	2.0	4.0	4.0		
Difference between largest and smallest OD	Max	2.0	2.0	2.0	4.0	4.0		
$V_{Dp\ max}$ (Bearing Series 62) [μm]	Max	2.0	2.0	2.0	4.0	4.0		
Difference between largest and smallest OD	Max	2.0	2.0	2.0	4.0	4.0		
$V_{Dmp\ max}$ [μm]	Max	1.0	1.0	1.0	2.0	2.0		
Difference between largest average OD and smallest average OD in different planes	Max	1.0	1.0	1.0	2.0	2.0		
$K_{ea\ max}$ [μm]	Max	2.0	2.0	2.0	3.0	3.0		
Assembled bearing outer ring radial runout	Max	2.0	2.0	2.0	3.0	3.0		
$S_{D\ max}$ [μm]	Max	2.0	2.0	2.0	2.0	2.5		
Outer ring face runout	Max	2.0	2.0	2.0	2.0	2.5		
$S_{ea\ max}$ [μm]	Max	2.0	2.0	2.0	2.0	2.5		
Assembled bearing outer ring axial runout	Max	2.0	2.0	2.0	2.0	2.5		
Δ_{CS} Single Bearing [μm]	Max	Identical to the Δ_{BS} of the inner ring of the same bearing						
Single outer ring width tolerance	Min	Identical to the Δ_{BS} of the inner ring of the same bearing						
Δ_{CS} Bearing Pair [μm]	Max	Identical to the Δ_{BS} of the inner ring of the same bearing						
Outer ring pair width tolerance	Min	Identical to the Δ_{BS} of the inner ring of the same bearing						
$V_{CS\ max}$ [μm]	Max	2.0	2.0	2.0	2.0	2.0		
Difference between largest and smallest width	Max	2.0	2.0	2.0	2.0	2.0		

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
Δ_{dmp} [0.0001"]	Max	0	0	0	0	0	
Average ID tolerance	Min	-1.2	-1.2	-1.2	-1.2	-1.6	
Δ_{dis} (Bearing Series 60 & 62) [0.0001"]	Max	0	0	0	0	0	
Single ID tolerance	Min	-1.2	-1.2	-1.2	-1.2	-1.6	
$V_{dp\ max}$ (Bearing Series 618 & 619) [0.0001"]	Max	1.2	1.2	1.2	1.2	1.6	
Difference between largest and smallest ID	Max	1.2	1.2	1.2	1.2	1.6	
$V_{dp\ max}$ (Bearing Series 60) [0.0001"]	Max	1.2	1.2	1.2	1.2	1.6	
Difference between largest and smallest ID	Max	1.2	1.2	1.2	1.2	1.6	
$V_{dp\ max}$ (Bearing Series 62) [0.0001"]	Max	1.2	1.2	1.2	1.2	1.6	
Difference between largest and smallest ID	Max	1.2	1.2	1.2	1.2	1.6	
$V_{dmp\ max}$ [0.0001"]	Max	0.8	0.8	0.8	0.8	1.0	
Difference between largest average ID and smallest average ID in different planes	Max	0.8	0.8	0.8	0.8	1.0	
$K_{ia\ max}$ [0.0001"]	Max	0.6	0.6	0.6	0.8	0.8	
Assembled bearing inner ring radial runout	Max	0.6	0.6	0.6	0.8	0.8	
$S_{d\ max}$ [0.0001"]	Max	0.8	0.8	0.8	0.8	0.8	
Inner ring face runout	Max	0.8	0.8	0.8	0.8	0.8	
$S_{ia\ max}$ [0.0001"]	Max	0.8	0.8	1.0	1.0	1.0	
Assembled bearing inner ring axial runout	Max	0.8	0.8	1.0	1.0	1.0	
Δ_{BS} Single Bearing [0.0001"]	Max	0	0	0	0	0	
Single inner ring width tolerance	Min	-9.8	-31.5	-47.2	-47.2	-59.1	
Δ_{BS} Bearing Pair [0.0001"]	Max	0	0	0	0	0	
Inner ring pair width tolerance	Min	-98.4	-98.4	-98.4	-98.4	-98.4	
$V_{BS\ max}$ [0.0001"]	Max	0.8	0.8	0.8	0.8	0.8	
Difference between largest and smallest width	Max	0.8	0.8	0.8	0.8	0.8	

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
Δ_{dmp} [0.0001"]	Max	0	0	0	0	0		
Average OD tolerance	Min	-1.2	-1.2	-1.2	-1.6	-1.6		
Δ_{Ds} (Bearing Series 60 & 62) [0.0001"]	Max	0	0	0	0	0		
Single OD tolerance	Min	-1.2	-1.2	-1.2	-1.6	-1.6		
$V_{Dp\ max}$ (Bearing Series 618 & 619) [0.0001"]	Max	0.8	0.8	0.8	1.6	1.6		
Difference between largest and smallest OD	Max	0.8	0.8	0.8	1.6	1.6		
$V_{Dp\ max}$ (Bearing Series 60) [0.0001"]	Max	0.8	0.8	0.8	1.6	1.6		
Difference between largest and smallest OD	Max	0.8	0.8	0.8	1.6	1.6		
$V_{Dp\ max}$ (Bearing Series 62) [0.0001"]	Max	0.8	0.8	0.8	1.6	1.6		
Difference between largest and smallest OD	Max	0.8	0.8	0.8	1.6	1.6		
$V_{Dmp\ max}$ [0.0001"]	Max	0.4	0.4	0.4	0.8	0.8		
Difference between largest average OD and smallest average OD in different planes	Max	0.4	0.4	0.4	0.8	0.8		
$K_{ea\ max}$ [0.0001"]	Max	0.8	0.8	0.8	1.2	1.2		
Assembled bearing outer ring radial runout	Max	0.8	0.8	0.8	1.2	1.2		
$S_{D\ max}$ [0.0001"]	Max	0.8	0.8	0.8	0.8	1.0		
Outer ring face runout	Max	0.8	0.8	0.8	0.8	1.0		
$S_{ea\ max}$ [0.0001"]	Max	0.8	0.8	0.8	0.8	1.0		
Assembled bearing outer ring axial runout	Max	0.8	0.8	0.8	0.8	1.0		
Δ_{CS} Single Bearing [0.0001"]	Max	Identical to the Δ_{BS} of the inner ring of the same bearing						
Single outer ring width tolerance	Min	Identical to the Δ_{BS} of the inner ring of the same bearing						
Δ_{CS} Bearing Pair [0.0001"]	Max	Identical to the Δ_{BS} of the inner ring of the same bearing						
Outer ring pair width tolerance	Min	Identical to the Δ_{BS} of the inner ring of the same bearing						
$V_{CS\ max}$ [0.0001"]	Max	0.8	0.8	0.8	0.8	0.8		
Difference between largest and smallest width	Max	0.8	0.8	0.8	0.8	0.8		