Wearband Formulas

Calculating Piston Wearband Grooves

Maximum Groove Diameter = **Minimum Bore Diameter** − 2x **Maximum Wearband Cross Section**

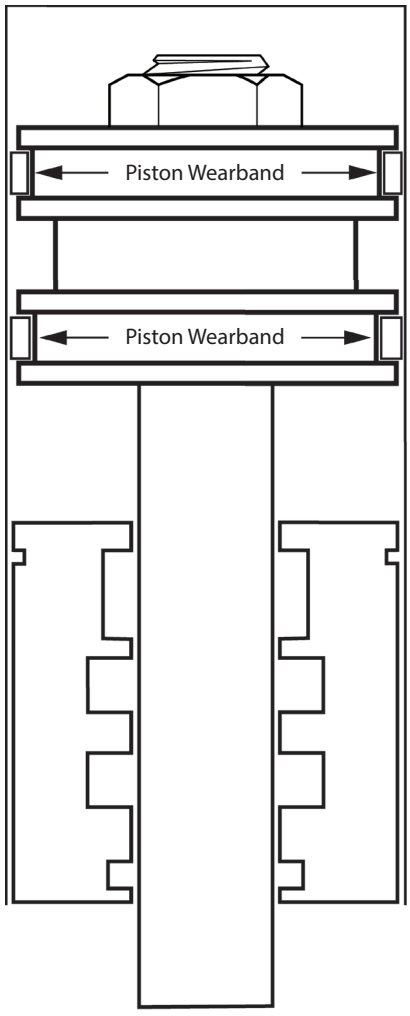
Tolerance = +.000” / −.005”

Groove Length = Actual Part Length +.010”

Tolerance = +.010” / −.000”

NOTES:
1 - The piston diameter will not correspond to diameters called out for piston seals. Additional clearances are required for wear-band use. Piston seal material should provide sufficient extrusion resistance to prevent extrusion of the piston seal with the increase in diametral clearance caused by wearband use.

2 - Radii MUST NOT EXCEED .010” MAXIMUM at corners on bottom of piston wearband groove.



Calculating Rod Wearband Grooves

Minimum Groove Diameter = **Maximum Rod Diameter** + 2x **Maximum Wearband Cross Section**

Tolerance = +.003” / −.000”

Groove Length = Actual Part Length +.010"

Tolerance = +.010” / −.000”

NOTES:
1 - The rod throat diameter is a new diameter over and above the diameter which is called out for the rod seal. Additional diametral clearances are required as noted for the wear ring to function properly. Since a larger clearance gap results, an extrusion resistant material should be specified for the rod seal when using wearbands.

2 - Radii MUST NOT EXCEED .010” MAXIMUM at corners on bottom of rod wearband gland.