

TECHNICAL INFORMATION HOUSING

Housing

For optimum seal performance consideration must also be given to the housing **Material**, **Roughness** and **Tolerance**

Housing Material

Steel and cast iron provide a good surface for both rubber and metal O.D. seals. For soft alloy (aluminium housings, seals with rubber O.D. provide a better sealing capacity.

Housing Roughness

The housing inside diameter roughness is 10 μ inch or 2.5 μ m Ra for metal O.D. seals and 150 μ inch or 3.75 μ m Ra or rubber covered O.D seals.

Housing Tolerance

Housing tolerances are listed in the tables below:

Bore Diameter D ₂ (mm)	Bore Tolerance (ISO/H8)
Over 6 to 10	+0.022 / -0.000
Over 10 to 18	+0.027 / -0.000
Over 18 to 30	+0.033 / -0.000
Over 30 to 50	+0.039 / -0.000
Over 50 to 80	+0.046 / -0.000
Over 8 to 120	+0.054 / -0.000
Over 120 to 180	+0.063 / -0.000
Over 180 to 250	+0.072 / -0.000
Over 250 to 315	+0.081 / -0.000
Over 315 to 400	+0.089 / -0.000
Over 400 to 500	+0.097 / -0.000

Bore Diameter D ₂ (inch)	Bore Tolerance
Up to 3.000	+/- 0.001
3.001 to 6.000	+/- 0.0015
6.001 to 10.000	+/- 0.002
10.001 to 20.000	+0.002 / - 0.004
20.001 to 40.000	+0.002 / - 0.006
40.001 to 60.000	+0.002 / -0.010