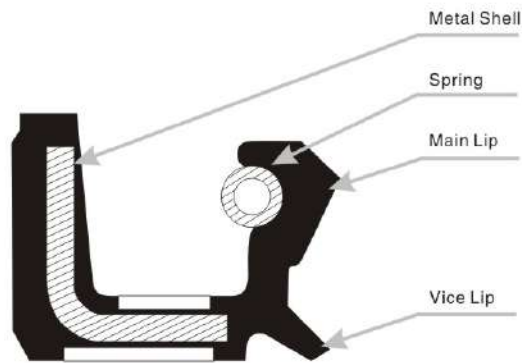




Oil seal is mainly used in sealing the lubricant. It's normally fixed to the load, especially the rotary bearing in order to isolate the oil cylinder from outside. Oil seal can both seal inside oil and resist outside dust.



Most of the metal case of oil seal have a grinded outside diameter.



(ISO TYTE2)  
(DIN B)  
SB



(ISO TYTE5)  
(DIN BS)  
TB



VB

For some large thermal expansion housing especially for aluminum and magnesium, the outside diameter is covered in rubber.



(ISO TYTE1)  
(DIN A)  
SC



(ISO TYTE4)  
(DIN AS)  
TC



VC

ISO/R286 H8

| NORMINAL DIAMETER | HOLE DIAMETER TOL. | SHAFTO. D. DIAMETER TOL. |
|-------------------|--------------------|--------------------------|
| 6.00-10.00        | -0.000/+0.020      | +0.000/-0.090            |
| 10.01-18.00       | -0.000/+0.027      | +0.000/-0.110            |
| 18.01-30.00       | -0.000/+0.033      | +0.000/-0.130            |
| 30.01-50.00       | -0.000/+0.039      | +0.000/-0.160            |
| 50.01-80.00       | -0.000/+0.046      | +0.000/-0.190            |
| 80.01-120.00      | -0.000/+0.054      | +0.000/-0.220            |
| 120.01-180.00     | -0.000/+0.063      | +0.000/-0.250            |
| 180.01-250.00     | -0.000/+0.072      | +0.000/-0.290            |
| 250.01-315.00     | -0.000/+0.081      | +0.000/-0.320            |
| 315.01-400.00     | -0.000/+0.089      | +0.000/-0.360            |
| 400.01-500.00     | -0.000/+0.097      | +0.000/-0.400            |

GB9877.1-88

| SHAFT DIAMETER | MAJOR LIP TOL. | MINOR LIP TOL. |
|----------------|----------------|----------------|
| 5-30           | -0.65/-1.15    | -0.15/-0.45    |
| 30-60          | -0.90/-1.60    | -0.20/-0.60    |
| 60-80          | -1.10/-1.90    | -0.25/-0.75    |
| 80-130         | -1.40/-2.40    | -0.30/-0.90    |
| 130-250        | -1.80/-3.00    | -0.40/-1.05    |
| 250-400        | -2.30/-3.70    | -0.50/-1.30    |

GB13871-2007

| DIAMETER | HEIGHT TOL. |
|----------|-------------|
| ≤10      | ±0.3        |
| ≥10      | ±0.4        |

GB13871-2007

| SHAFT DIAMETER | OUT SIDE FRAMEWORK ID TOL. | INNER FRAMEWORK OD TOL. | OUT SIDE FRAMEWORK ROUNDNESS | INNER FRAMEWORK ROUNDNESS TOL. |
|----------------|----------------------------|-------------------------|------------------------------|--------------------------------|
| ≤50            | +0.20/+0.08                | +0.30/+0.15             | 0.18                         | 0.25                           |
| 50-80          | +0.23/+0.09                | +0.35/+0.20             | 0.25                         | 0.35                           |
| 80-120         | +0.25/+0.10                | +0.35(0.45)/+0.2        | 1.30                         | 0.50                           |
| 120-180        | +0.28/+0.12                | +0.45(0.50)/+0.25       | 0.40                         | 0.65                           |
| 180-300        | +0.35/+0.15                | +0.45(0.55)/+0.25       | OD*0.25%                     | 0.80                           |
| 300-440        | +0.45/+0.20                | +0.55(0.65)/+0.30       | OD*0.25% but no over 0.9     | 1.00                           |