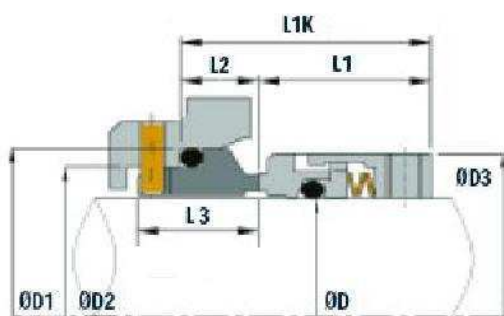


# Types 1677 and 1677M

## STANDARD SIZES



| Metric Size D | Size Code | D1     | D2     | D3     | L1    | L2    | L3    | L TOT<br>DIN<br>L1K | SLOT<br>WIDTH | SLOT<br>DEPTH |
|---------------|-----------|--------|--------|--------|-------|-------|-------|---------------------|---------------|---------------|
| 14            | 0140      | 25.00  | 21.00  | 24.00  | 25.00 | 10.00 | 16.50 | 35.00               | 4.00          | 5.00          |
| 16            | 0160      | 27.00  | 23.00  | 26.00  | 25.00 | 10.00 | 16.50 | 35.00               | 4.00          | 5.00          |
| 18            | 0180      | 33.00  | 27.00  | 32.00  | 26.00 | 11.50 | 18.50 | 37.50               | 4.00          | 5.50          |
| 20            | 0200      | 35.00  | 29.00  | 34.00  | 26.00 | 11.50 | 18.50 | 37.50               | 4.00          | 5.50          |
| 22            | 0220      | 37.00  | 31.00  | 36.00  | 26.00 | 11.50 | 18.50 | 37.50               | 4.00          | 5.50          |
| 24            | 0240      | 39.00  | 33.00  | 38.00  | 28.50 | 11.50 | 18.50 | 40.00               | 4.00          | 5.50          |
| 25            | 0250      | 40.00  | 34.00  | 39.00  | 28.50 | 11.50 | 18.50 | 40.00               | 4.00          | 5.50          |
| 28            | 0280      | 43.00  | 37.00  | 42.00  | 31.00 | 11.50 | 18.50 | 42.50               | 4.00          | 5.50          |
| 30            | 0300      | 45.00  | 39.00  | 44.00  | 31.00 | 11.50 | 18.50 | 42.50               | 4.00          | 5.50          |
| 32            | 0320      | 48.00  | 42.00  | 46.00  | 31.00 | 11.50 | 18.50 | 42.50               | 4.00          | 5.50          |
| 33            | 0330      | 48.00  | 42.00  | 47.00  | 31.00 | 11.50 | 18.50 | 42.50               | 4.00          | 5.50          |
| 35            | 0350      | 50.00  | 44.00  | 49.00  | 31.00 | 11.50 | 18.50 | 42.50               | 4.00          | 5.50          |
| 38            | 0380      | 56.00  | 49.00  | 54.00  | 31.00 | 14.00 | 21.50 | 45.00               | 5.00          | 5.50          |
| 40            | 0400      | 58.00  | 51.00  | 56.00  | 31.00 | 14.00 | 21.50 | 45.00               | 5.00          | 5.50          |
| 43            | 0430      | 61.00  | 54.00  | 59.00  | 31.00 | 14.00 | 21.50 | 45.00               | 5.00          | 5.50          |
| 45            | 0450      | 63.00  | 56.00  | 61.00  | 31.00 | 14.00 | 21.50 | 45.00               | 5.00          | 5.50          |
| 48            | 0480      | 66.00  | 59.00  | 64.00  | 31.00 | 14.00 | 21.50 | 45.00               | 5.00          | 5.50          |
| 50            | 0500      | 70.00  | 62.00  | 66.00  | 32.50 | 15.00 | 22.50 | 47.50               | 5.00          | 5.50          |
| 53            | 0530      | 73.00  | 65.00  | 69.00  | 32.50 | 15.00 | 22.50 | 47.50               | 5.00          | 5.50          |
| 55            | 0550      | 75.00  | 67.00  | 71.00  | 32.50 | 15.00 | 22.50 | 47.50               | 5.00          | 5.50          |
| 58            | 0580      | 78.00  | 70.00  | 78.00  | 37.50 | 15.00 | 22.50 | 52.50               | 5.00          | 5.50          |
| 60            | 0600      | 80.00  | 72.00  | 80.00  | 37.50 | 15.00 | 22.50 | 52.50               | 5.00          | 5.50          |
| 63            | 0630      | 83.00  | 75.00  | 83.00  | 37.50 | 15.00 | 22.50 | 52.50               | 5.00          | 5.50          |
| 65            | 0650      | 85.00  | 77.00  | 85.00  | 37.50 | 15.00 | 22.50 | 52.50               | 5.00          | 5.50          |
| 68            | 0680      | 90.00  | 81.00  | 88.00  | 34.50 | 18.00 | 25.00 | 52.50               | 5.00          | 5.50          |
| 70            | 0700      | 92.00  | 83.00  | 89.00  | 42.00 | 18.00 | 25.00 | 60.00               | 5.00          | 5.50          |
| 75            | 0750      | 97.00  | 88.00  | 96.00  | 42.00 | 18.00 | 25.00 | 60.00               | 5.00          | 5.50          |
| 80            | 0800      | 105.00 | 95.00  | 104.00 | 41.80 | 18.20 | 25.70 | 60.00               | 5.00          | 5.50          |
| 85            | 0850      | 110.00 | 100.00 | 108.00 | 41.80 | 18.20 | 25.70 | 60.00               | 5.00          | 5.50          |
| 90            | 0900      | 115.00 | 105.00 | 114.00 | 46.80 | 18.20 | 25.70 | 65.00               | 5.00          | 5.50          |
| 95            | 0950      | 120.00 | 110.00 | 118.00 | 47.80 | 17.20 | 24.70 | 65.00               | 5.00          | 5.50          |
| 100           | 1000      | 125.00 | 115.00 | 124.00 | 47.80 | 17.20 | 24.70 | 65.00               | 5.00          | 5.50          |
| 110           | 1100      | 140.30 | 128.00 | 143.00 | 47.80 | 19.20 | 30.00 | 67.00               | 5.00          | 5.50          |
| 120           | 1200      | 150.30 | 138.00 | 153.00 | 47.80 | 19.20 | 30.00 | 67.00               | 5.00          | 5.50          |
| 130           | 1300      | 158.30 | 146.00 | 163.00 | 47.80 | 19.20 | 30.00 | 67.00               | 5.00          | 5.50          |

Sinusoidal wave-spring, set-screw driven, medium to heavy duty mechanical seal, with energised 'O'-ring and fitting dimensions to DIN 24960 / EN 12756 with L1K-U length.

Available as two versions with same performance and dimensions, Type 1677 features an inserted face in a metal carrier, Type 1677M has a monolithic head with lapped face.

### STANDARD FACE MATERIALS

Rotary Face: Q1 Silicon Carbide, B Carbon, A (Antimony-impregnated) Carbon.

Seat Ring: Q1 Silicon Carbide, Tungsten Carbide, A and B Carbons.

### Maximum Operating Limits

Pressure 250psi                      Speed 15m/s  
Temperature -40 to +200°C

Limits are dependant upon shaft size, shaft speed, temperature, and media to be sealed.