

Wipers

H33

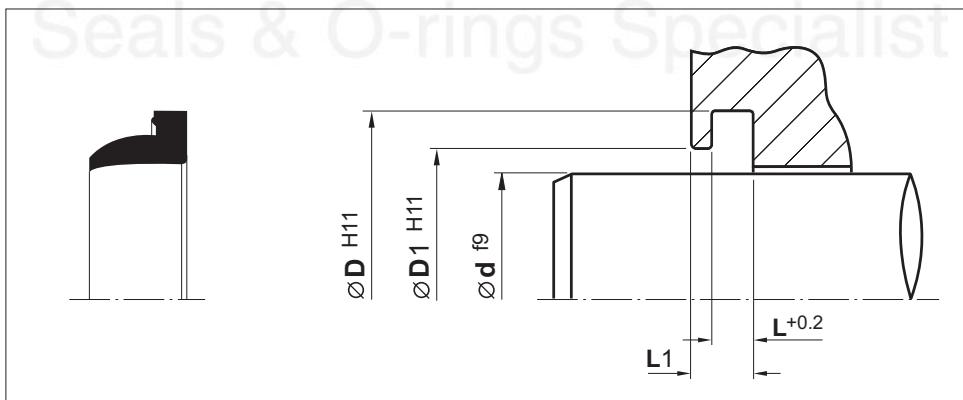
(Metric Size)



| Material | Temp. (°c) | Speed (m/s) |
|----------|-------------|-------------|
| NBR | -30 +100 | 4 |

- General purpose seal.
- Precision trimmed sealing lip.
- Wide size range.
- Effective seal on housing as well as rod.

Installation Recommendation



| Surface roughness | R _a | R _t |
|--------------------|----------------|----------------|
| Sliding surface | ≤ 0.3 µm | ≤ 4 µm |
| Surface of housing | ≤ 1.8 µm | ≤ 10 µm |
| Sides of housing | ≤ 3.0 µm | ≤ 16 µm |

Wiper - H33

(Metric Size)

| Rod Dia. | Groove Dia. | Groove Width | Part Width | Bore Dia. | Reference (For order processing) | Reference |
|----------|-------------|--------------|------------|-----------|----------------------------------|-----------|
| | | | | | | |
| d | D | L | L1 | D1 | | |
| 12.0 | 20.0 | 4.0 | 6.0 | 16.0 | H33-012-020-4/6 | 2232500 |
| 14.0 | 22.0 | 4.0 | 6.0 | 18.0 | H33-014-022-4/6 | 2232600 |
| 16.0 | 24.0 | 4.0 | 6.0 | 20.0 | H33-016-024-4/6 | 2232800 |
| 18.0 | 26.0 | 4.0 | 6.0 | 22.0 | H33-018-026-4/6 | 2232900 |
| 20.0 | 28.0 | 4.0 | 6.0 | 24.0 | H33-020-028-4/6 | 2233000 |
| 22.0 | 30.0 | 4.0 | 6.0 | 26.0 | H33-022-030-4/6 | 2233100 |
| 25.0 | 33.0 | 4.0 | 6.0 | 29.0 | H33-025-033-4/6 | 2233200 |
| 25.0 | 33.0 | 5.0 | 6.4 | 30.5 | H33-025-033-5/6.4 | 6586200 |
| 28.0 | 36.0 | 4.0 | 6.0 | 32.0 | H33-028-036-4/6 | 2233300 |
| 28.0 | 36.0 | 5.0 | 6.4 | 33.5 | H33-028-036-5/6.4 | 6586300 |
| 30.0 | 42.0 | 6.0 | 9.0 | 36.0 | H33-030-042-6/9 | 2233400 |
| 32.0 | 40.0 | 5.0 | 6.4 | 37.5 | H33-032-040-5/6.4 | 6586400 |
| 32.0 | 44.0 | 6.0 | 9.0 | 38.0 | H33-032-044-6/9 | 2233500 |
| 35.0 | 47.0 | 6.0 | 9.0 | 41.0 | H33-035-047-6/9 | 2233600 |
| 36.0 | 44.0 | 5.0 | 6.4 | 41.5 | H33-036-044-5/6.4 | 6586500 |
| 36.0 | 48.0 | 6.0 | 9.0 | 42.0 | H33-036-048-6/9 | 2233700 |
| 40.0 | 48.0 | 5.0 | 6.4 | 45.5 | H33-040-048-5/6.4 | 6586600 |
| 40.0 | 52.0 | 6.0 | 9.0 | 46.0 | H33-040-052-6/9 | 2233800 |
| 42.0 | 54.0 | 6.0 | 9.0 | 48.0 | H33-042-054-6/9 | 2233900 |
| 45.0 | 53.0 | 5.0 | 6.4 | 50.5 | H33-045-053-5/6.4 | 6586700 |
| 45.0 | 57.0 | 6.0 | 9.0 | 51.0 | H33-045-057-6/9 | 2234000 |
| 50.0 | 58.0 | 5.0 | 6.4 | 55.5 | H33-050-058-5/6.4 | 6586800 |
| 50.0 | 62.0 | 6.0 | 9.0 | 55.0 | H33-050-062-6/9 | 2234200 |
| 55.0 | 67.0 | 6.0 | 9.0 | 61.0 | H33-055-067-6/9 | 2234300 |
| 56.0 | 66.0 | 6.3 | 8.1 | 63.0 | H33-056-066-6.3/8.1 | 6586900 |
| 56.0 | 68.0 | 6.0 | 9.0 | 62.0 | H33-056-068-6/9 | 2234400 |
| 60.0 | 72.0 | 6.0 | 9.0 | 66.0 | H33-060-072-6/9 | 2234500 |
| 63.0 | 73.0 | 6.3 | 8.1 | 70.0 | H33-063-073-6.3/8.1 | 6587000 |
| 63.0 | 75.0 | 6.0 | 9.0 | 69.0 | H33-063-075-6/9 | 2234600 |
| 65.0 | 77.0 | 6.0 | 9.0 | 71.0 | H33-065-077-6/9 | 2234700 |
| 70.0 | 80.0 | 6.3 | 8.1 | 77.0 | H33-070-080-6.3/8.1 | 6587100 |
| 70.0 | 82.0 | 6.0 | 9.0 | 76.0 | H33-070-082-6/9 | 2234800 |
| 80.0 | 90.0 | 6.3 | 8.1 | 87.0 | H33-080-090-6.3/8.1 | 6587200 |
| 90.0 | 100.0 | 6.3 | 8.1 | 97.0 | H33-090-100-6.3/8.1 | 6587300 |
| 90.0 | 106.0 | 8.0 | 12.0 | 98.0 | H33-090-106-8/12 | 2235200 |
| 100.0 | 115.0 | 9.5 | 12.5 | 110.0 | H33-100-115-9.5/12.5 | 6587400 |
| 100.0 | 116.0 | 8.0 | 12.0 | 108.0 | H33-100-116-8/12 | 2235300 |
| 105.0 | 121.0 | 8.0 | 12.0 | 113.0 | H33-105-121-8/12 | 2235400 |
| 110.0 | 125.0 | 9.5 | 12.5 | 120.0 | H33-110-125-9.5/12.5 | 6587500 |
| 125.0 | 140.0 | 9.5 | 12.5 | 135.0 | H33-125-140-9.5/12.5 | 6587600 |

(Metric Size)

| Rod Dia. | Groove Dia. | Groove Width | Part Width | Bore Dia. | Reference (For order processing) | Reference |
|----------|-------------|--------------|------------|-----------|-------------------------------------|-----------|
| d | D | L | L1 | D1 | | |
| 140.0 | 155.0 | 9.5 | 12.5 | 150.0 | H33-140-155-9.5/12.5 | 6587700 |
| 140.0 | 156.0 | 8.0 | 12.0 | 148.0 | H33-140-156-8/12 | 1222800 |
| 150.0 | 166.0 | 8.0 | 12.0 | 158.0 | H33-150-166-8/12 | 1222900 |
| 160.0 | 175.0 | 9.5 | 12.5 | 170.0 | H33-160-175-9.5/12.5 | 6587800 |
| 160.0 | 176.0 | 8.0 | 12.0 | 168.0 | H33-160-176-8/12 | 1223000 |
| 180.0 | 195.0 | 9.5 | 12.5 | 190.0 | H33-180-195-9.5/12.5 | 6587900 |
| 180.0 | 200.0 | 10.0 | 15.0 | 190.0 | H33-180-200-10/15 | 1226300 |
| 190.0 | 210.0 | 10.0 | 15.0 | 200.0 | H33-190-210-10/15 | 1226400 |
| 200.0 | 215.0 | 9.5 | 12.5 | 210.0 | H33-200-215-9.5/12.5 | 6588000 |
| 200.0 | 220.0 | 10.0 | 15.0 | 210.0 | H33-200-220-10/15 | 1226500 |
| 220.0 | 240.0 | 12.5 | 16.6 | 233.5 | H33-220-240-12.5/16.6 | 6588100 |
| 250.0 | 270.0 | 12.5 | 16.6 | 263.5 | H33-250-270-12.5/16.6 | 6588200 |



 Seals & O-rings Specialist