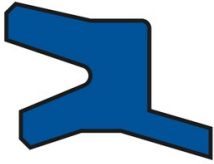


Wiper type 009P PUR



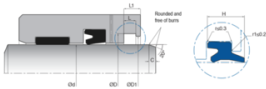
Characteristics

Type: 009P

Groove type: Closed

Principle of operation: Double acting

Maximum speed: 1 m/s



| Operating conditions | | | |
|----------------------|--------------------------|-------------|---------------|
| Media | Mineral Oils [DIN 51524] | HFA and HFB | HFC |
| Temperature | -30°C + 100°C | +5°C + 50°C | -30°C + 40 °C |
| Speed | ≤1,0 m/s | ≤1,0 m/s | ≤1,0 m/s |

Note: The above data are maximum values, they may only be maintained for short periods of time and cannot be used at the same time simultaneously.

| Surface roughness | | |
|-------------------|---------|---------|
| | Ra | Rmax |
| Sliding Surface | ≤0,4 µm | ≤3,2 µm |
| Groove Base | ≤1,6 µm | ≤10 µm |
| Groove Flanks | ≤3,2 µm | ≤16 µm |

| Hardware tolerances | | | | |
|---------------------|----|-----|-----|------------|
| Dimension | Ød | ØD | ØD1 | L |
| Tolerance | f8 | H10 | H10 | +0,2/-0 mm |

| Rod diameter | Groove diameter | Groove width | Seal height | Material seal | Temperature range | Article |
|--------------|-----------------|--------------|-------------|---------------|-------------------|----------|
| mm | mm | mm | mm | | °C | |
| 10 | 15 | 5 | 6 | PUR | -30 / 100 | 14413789 |
| 10 | 16.1 | 3.9 | 4.8 | PUR | -30 / 100 | 14413788 |

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| Rod diameter | Groove diameter | Groove width | Seal height | Material seal | Temperature range | Article |
|--------------|-----------------|--------------|-------------|---------------|-------------------|----------|
| mm | mm | mm | mm | | °C | |
| 12.76 | 20.42 | 5.07 | 6 | PUR | -30 / 100 | 14413790 |
| 14 | 20 | 4 | 6 | PUR | -30 / 100 | 12961463 |
| 15.87 | 23.8 | 5.1 | 6 | PUR | -30 / 100 | 14413792 |
| 15.93 | 23.59 | 5.07 | 6 | PUR | -30 / 100 | 14413791 |
| 16 | 22 | 3.8 | 5.5 | PUR | -30 / 100 | 14413848 |
| 16 | 22 | 3.9 | 5 | PUR | -30 / 100 | 14413849 |
| 18 | 26.6 | 5.3 | 7 | PUR | -30 / 100 | 14413793 |
| 20 | 26 | 4 | 5 | PUR | -30 / 100 | 13032845 |
| 20 | 28.6 | 5.3 | 7 | PUR | -30 / 100 | 12404356 |
| 22 | 28 | 3.9 | 5 | PUR | -30 / 100 | 14413850 |
| 22 | 28 | 4 | 5.7 | PUR | -30 / 100 | 12703107 |
| 22 | 30 | 5.3 | 7 | PUR | -30 / 100 | 14413794 |
| 25 | 31 | 3.9 | 4.8 | PUR | -30 / 100 | 14413851 |
| 25 | 33.6 | 5.3 | 7 | PUR | -30 / 100 | 14413795 |
| 25.46 | 34.72 | 5.45 | 6.7 | PUR | -30 / 100 | 14413796 |
| 28 | 36.6 | 5.3 | 7 | PUR | -30 / 100 | 11270917 |
| 30 | 38.6 | 5.3 | 7 | PUR | -30 / 100 | 14413797 |
| 31.5 | 41.5 | 5.3 | 7 | PUR | -30 / 100 | 14413798 |
| 32 | 40 | 4.8 | 5.8 | PUR | -30 / 100 | 14413853 |
| 32 | 40 | 5.3 | 7 | PUR | -30 / 100 | 14413852 |
| 34.92 | 44.45 | 5.45 | 6.7 | PUR | -30 / 100 | 14413799 |
| 35 | 43.6 | 5.3 | 7 | PUR | -30 / 100 | 11436564 |
| 35 | 45 | 6.3 | 8 | PUR | -30 / 100 | 14413854 |
| 36 | 44.6 | 5.3 | 7 | PUR | -30 / 100 | 12961470 |
| 38 | 48 | 4.3 | 5.8 | PUR | -30 / 100 | 14413800 |
| 40 | 48.6 | 5.3 | 7 | PUR | -30 / 100 | 11436565 |
| 40 | 50 | 5 | 6.5 | PUR | -30 / 100 | 14413801 |
| 44.51 | 53.77 | 5.4 | 6.7 | PUR | -30 / 100 | 14413802 |
| 45 | 52.9 | 5.3 | 6.5 | PUR | -30 / 100 | 14413804 |
| 45 | 53 | 4.5 | 5.8 | PUR | -30 / 100 | 14413855 |
| 45 | 53 | 5.3 | 6.5 | PUR | -30 / 100 | 14413856 |
| 45 | 53.6 | 5.3 | 7 | PUR | -30 / 100 | 11436566 |
| 45 | 55.6 | 5.3 | 7 | PUR | -30 / 100 | 14413803 |
| 50 | 57.9 | 5.3 | 6.5 | PUR | -30 / 100 | 14413807 |
| 50 | 58 | 4.8 | 5.8 | PUR | -30 / 100 | 14413857 |
| 50 | 58.6 | 5.3 | 7 | PUR | -30 / 100 | 11436567 |
| 50 | 60.6 | 5.3 | 7 | PUR | -30 / 100 | 14413805 |
| 50.86 | 60.12 | 5.45 | 6.7 | PUR | -30 / 100 | 14413806 |
| 55 | 63 | 5.3 | 7 | PUR | -30 / 100 | 14413809 |
| 55 | 65.6 | 5.3 | 7 | PUR | -30 / 100 | 14413808 |
| 56 | 64 | 5.3 | 7 | PUR | -30 / 100 | 14413810 |
| 56 | 66 | 5.6 | 6.8 | PUR | -30 / 100 | 14413858 |
| 60 | 68.6 | 5.3 | 7 | PUR | -30 / 100 | 11443755 |
| 60 | 70.6 | 5.3 | 7 | PUR | -30 / 100 | 14413811 |
| 60.3 | 68.9 | 6 | 8.7 | PUR | -30 / 100 | 14413812 |
| 63 | 71.6 | 5.3 | 7 | PUR | -30 / 100 | 14413813 |
| 63 | 73.6 | 5.3 | 7 | PUR | -30 / 100 | 14413814 |
| 65 | 75.6 | 5.3 | 7 | PUR | -30 / 100 | 14413815 |
| 70 | 78.6 | 5 | 7 | PUR | -30 / 100 | 14413859 |
| 70 | 80.6 | 5.3 | 7 | PUR | -30 / 100 | 14413816 |
| 75 | 83.6 | 5.3 | 7 | PUR | -30 / 100 | 14413819 |
| 75 | 85 | 5.3 | 7 | PUR | -30 / 100 | 14413818 |
| 75 | 87.2 | 7.1 | 12 | PUR | -30 / 100 | 14413817 |

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| Rod diameter | Groove diameter | Groove width | Seal height | Material seal | Temperature range | Article |
|--------------|-----------------|--------------|-------------|---------------|-------------------|----------|
| mm | mm | mm | mm | | °C | |
| 80 | 88 | 5 | 7 | PUR | -30 / 100 | 14413822 |
| 80 | 90 | 7.3 | 12 | PUR | -30 / 100 | 14413860 |
| 80 | 92 | 7.1 | 12 | PUR | -30 / 100 | 14413820 |
| 85 | 97.2 | 7.1 | 12 | PUR | -30 / 100 | 14413823 |
| 90 | 102.2 | 7.1 | 12 | PUR | -30 / 100 | 14413824 |
| 95 | 107.2 | 7.1 | 12 | PUR | -30 / 100 | 14413861 |
| 100 | 110.2 | 6 | 6.8 | PUR | -30 / 100 | 14413826 |
| 100 | 110.2 | 7 | 8 | PUR | -30 / 100 | 14413825 |
| 105 | 117.2 | 7.2 | 12 | PUR | -30 / 100 | 14413827 |
| 110 | 120.2 | 7 | 9 | PUR | -30 / 100 | 14413828 |
| 110 | 122.2 | 7.2 | 12 | PUR | -30 / 100 | 14413830 |
| 110 | 125.2 | 8.5 | 9.5 | PUR | -30 / 100 | 14413829 |
| 115 | 127.2 | 7.1 | 12 | PUR | -30 / 100 | 14413831 |
| 120 | 132.2 | 7.2 | 12 | PUR | -30 / 100 | 14413833 |
| 125 | 138 | 7.3 | 9.5 | PUR | -30 / 100 | 14413835 |
| 125 | 140 | 7.6 | 9.5 | PUR | -30 / 100 | 14413834 |
| 132 | 145 | 7.3 | 9.5 | PUR | -30 / 100 | 14413836 |
| 135 | 147.2 | 7.1 | 12 | PUR | -30 / 100 | 14413837 |
| 135 | 150 | 7.3 | 12 | PUR | -30 / 100 | 14413838 |
| 140 | 155 | 10.2 | 16 | PUR | -30 / 100 | 14413839 |
| 155 | 167 | 7.1 | 12 | PUR | -30 / 100 | 14413840 |
| 160 | 172.2 | 7.1 | 12 | PUR | -30 / 100 | 14413841 |
| 160 | 175 | 10.2 | 16 | PUR | -30 / 100 | 14413842 |
| 185 | 197.2 | 7.1 | 12 | PUR | -30 / 100 | 14413843 |
| 200 | 212.2 | 7.1 | 12 | PUR | -30 / 100 | 14413844 |
| 215 | 227 | 7.1 | 12 | PUR | -30 / 100 | 14413845 |
| 220 | 232.2 | 7.1 | 12 | PUR | -30 / 100 | 14413846 |
| 240 | 255 | 7.1 | 12 | PUR | -30 / 100 | 14413847 |

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