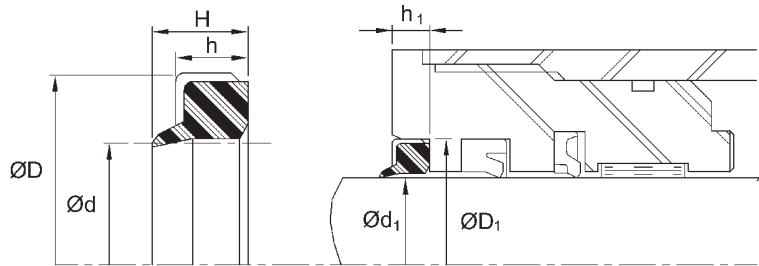
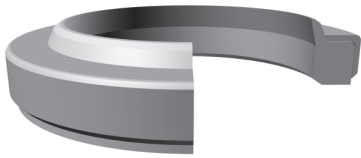


WO - Rod Wipers

Polyurethane/Steel



Temperature: -31/212F [-35/100C]

Pressure: N/A

| Ref.Number | Rod diameter | Nominal Seal Dimensions | | | | Housing Dimensions | | | | | | | | |
|------------------|--------------|-------------------------|-------|-------|------|--------------------|-------|---------------|------|----|------|---------------|------|--|
| | Tol. | d | D | h | H | D1 | Tol. | D2 | Tol. | h1 | Tol. | H1 | Tol. | |
| W006016050WO | 6.30 | +0.00 / -0.04 | 6.30 | 16.00 | 5.00 | 7.00 | 16.00 | +0.02 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W007017050WO | 7.10 | +0.00 / -0.04 | 7.10 | 17.00 | 5.00 | 7.00 | 17.00 | +0.02 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W008018050WO | 8.00 | +0.00 / -0.04 | 8.00 | 18.00 | 5.00 | 7.00 | 18.00 | +0.02 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W009019050WO | 9.00 | +0.00 / -0.04 | 9.00 | 19.00 | 5.00 | 7.00 | 19.00 | +0.03 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W010020050WO | 10.00 | +0.00 / -0.04 | 10.00 | 20.00 | 5.00 | 7.00 | 20.00 | +0.03 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W011021050WO | 11.20 | +0.00 / -0.04 | 11.20 | 21.00 | 5.00 | 7.00 | 21.00 | +0.03 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W012020040WO | 12.00 | +0.00 / -0.04 | 12.00 | 20.00 | 4.00 | 6.00 | 20.00 | +0.03 / -0.00 | | | 4.00 | +0.50 / -0.00 | | |
| W012023050WO | 12.50 | +0.00 / -0.04 | 12.50 | 23.00 | 5.00 | 7.00 | 23.00 | +0.03 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W012025050WO | 12.00 | +0.00 / -0.04 | 12.00 | 25.00 | 5.00 | 7.00 | 25.00 | +0.03 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W014024050WO | 14.00 | +0.00 / -0.04 | 14.00 | 24.00 | 5.00 | 7.00 | 24.00 | +0.03 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W015021050WO | 15.00 | +0.00 / -0.04 | 15.00 | 21.00 | 5.00 | 7.00 | 21.00 | +0.03 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W015025050WO | 15.00 | +0.00 / -0.04 | 15.00 | 25.00 | 5.00 | 7.00 | 25.00 | +0.03 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W016022030WO | 16.00 | +0.00 / -0.04 | 16.00 | 22.00 | 3.00 | 4.00 | 22.00 | +0.03 / -0.00 | | | 3.00 | +0.50 / -0.00 | | |
| W016023050WO | 16.00 | +0.00 / -0.04 | 16.00 | 23.00 | 5.00 | 7.00 | 23.00 | +0.03 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W016026050WO | 16.00 | +0.00 / -0.04 | 16.00 | 26.00 | 5.00 | 7.00 | 26.00 | +0.03 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W018028050WO | 18.00 | +0.00 / -0.04 | 18.00 | 28.00 | 5.00 | 7.00 | 28.00 | +0.03 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W018028070WO | 18.00 | +0.00 / -0.04 | 18.00 | 28.00 | 7.00 | 10.00 | 28.00 | +0.03 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W018028070WO/PU7 | 18.00 | +0.00 / -0.04 | 18.00 | 28.00 | 7.00 | 10.00 | 28.00 | +0.03 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W018030060WO | 18.00 | +0.00 / -0.04 | 18.00 | 30.00 | 6.00 | 9.00 | 30.00 | +0.03 / -0.00 | | | 6.00 | +0.50 / -0.00 | | |
| W020028050WO | 20.00 | +0.00 / -0.04 | 20.00 | 28.00 | 5.00 | 7.00 | 28.00 | +0.03 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W020030050WO | 20.00 | +0.00 / -0.04 | 20.00 | 30.00 | 5.00 | 7.00 | 30.00 | +0.03 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |



NOTE: MINIMUM LINE ORDER MAY APPLY

WO SERIES - AU/STEEL

| Ref.Number | Rod diameter | | Nominal Seal Dimensions | | | | Housing Dimensions | | | | | | | |
|----------------|--------------|---------------|-------------------------|-------|------|-------|--------------------|---------------|----|------|------|---------------|----|------|
| | Tol. | | d | D | h | H | D1 | Tol. | D2 | Tol. | h1 | Tol. | H1 | Tol. |
| W020030070WO | 20.00 | +0.00 / -0.04 | 20.00 | 30.00 | 7.00 | 10.00 | 30.00 | +0.03 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W020032060WO | 20.00 | +0.00 / -0.04 | 20.00 | 32.00 | 6.00 | 9.00 | 32.00 | +0.04 / -0.00 | | | 6.00 | +0.50 / -0.00 | | |
| W021032050WO | 21.00 | +0.00 / -0.04 | 21.00 | 32.00 | 5.00 | 9.00 | 32.00 | +0.04 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W022032070WO | 25.00 | +0.00 / -0.04 | 25.00 | 32.00 | 7.00 | 10.00 | 32.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W022034060WO | 22.00 | +0.00 / -0.04 | 22.00 | 34.00 | 6.00 | 9.00 | 34.00 | +0.04 / -0.00 | | | 6.00 | +0.50 / -0.00 | | |
| W022034060WO-1 | 22.40 | +0.00 / -0.04 | 22.40 | 34.40 | 6.00 | 9.00 | 34.40 | +0.04 / -0.00 | | | 6.00 | +0.50 / -0.00 | | |
| W025035050WO | 25.00 | +0.00 / -0.04 | 25.00 | 35.00 | 5.00 | 7.00 | 35.00 | +0.04 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W025035070WO | 25.00 | +0.00 / -0.04 | 25.00 | 35.00 | 7.00 | 10.00 | 35.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W025037060WO | 25.00 | +0.00 / -0.04 | 25.00 | 37.00 | 6.00 | 9.00 | 37.00 | +0.04 / -0.00 | | | 6.00 | +0.50 / -0.00 | | |
| W027039060WO | 27.00 | +0.00 / -0.04 | 27.00 | 39.00 | 6.00 | 9.00 | 39.00 | +0.04 / -0.00 | | | 6.00 | +0.50 / -0.00 | | |
| W028038050WO | 28.00 | +0.00 / -0.04 | 28.00 | 38.00 | 5.00 | 7.00 | 38.00 | +0.04 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W028038070WO | 28.00 | +0.00 / -0.04 | 28.00 | 38.00 | 7.00 | 10.00 | 38.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W028040060WO | 28.00 | +0.00 / -0.04 | 28.00 | 40.00 | 6.00 | 9.00 | 40.00 | +0.04 / -0.00 | | | 6.00 | +0.50 / -0.00 | | |
| W028040070WO | 28.00 | +0.00 / -0.04 | 28.00 | 40.00 | 7.00 | 10.00 | 40.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W030040050WO | 30.00 | +0.00 / -0.04 | 30.00 | 40.00 | 5.00 | 7.00 | 40.00 | +0.04 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W030040070WO | 30.00 | +0.00 / -0.04 | 30.00 | 40.00 | 7.00 | 10.00 | 40.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W030042060WO | 30.00 | +0.00 / -0.04 | 30.00 | 42.00 | 6.00 | 9.00 | 42.00 | +0.04 / -0.00 | | | 6.00 | +0.50 / -0.00 | | |
| W030050095WO | 30.00 | +0.00 / -0.04 | 30.00 | 50.00 | 9.50 | 12.50 | 50.00 | +0.04 / -0.00 | | | 9.50 | +0.50 / -0.00 | | |
| W031042070WO | 31.70 | +0.00 / -0.04 | 31.70 | 42.80 | 7.00 | 10.00 | 42.80 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W031044070WO | 31.50 | +0.00 / -0.04 | 31.50 | 44.00 | 7.00 | 10.00 | 44.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W031044070WO-1 | 31.75 | +0.00 / -0.04 | 31.75 | 44.50 | 7.00 | 10.00 | 44.50 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W032042050WO | 32.00 | +0.00 / -0.04 | 32.00 | 42.00 | 5.00 | 7.00 | 42.00 | +0.04 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W032042070WO | 32.00 | +0.00 / -0.04 | 32.00 | 42.00 | 7.00 | 10.00 | 42.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W032044070WO | 32.00 | +0.00 / -0.04 | 32.00 | 44.00 | 7.00 | 10.00 | 44.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W032045070WO | 32.00 | +0.00 / -0.04 | 32.00 | 45.00 | 7.00 | 10.00 | 45.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W032052080WO | 32.00 | +0.00 / -0.04 | 32.00 | 52.00 | 8.00 | 11.00 | 52.00 | +0.04 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W034046070WO | 34.00 | +0.00 / -0.04 | 34.00 | 46.00 | 7.00 | 10.00 | 46.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W035045070WO | 35.00 | +0.00 / -0.04 | 35.00 | 45.00 | 7.00 | 10.00 | 45.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W035047070WO | 35.00 | +0.00 / -0.04 | 35.00 | 47.00 | 7.00 | 10.00 | 47.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W035047070WO-1 | 35.50 | +0.00 / -0.04 | 35.50 | 47.50 | 7.00 | 10.00 | 47.50 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W036045070WO | 36.00 | +0.00 / -0.04 | 36.00 | 45.00 | 7.00 | 10.00 | 45.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W036046070WO | 36.00 | +0.00 / -0.04 | 36.00 | 46.00 | 7.00 | 10.00 | 46.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W036050070WO | 36.00 | +0.00 / -0.04 | 36.00 | 50.00 | 7.00 | 10.00 | 50.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W038048070WO | 38.00 | +0.00 / -0.04 | 38.00 | 48.00 | 7.00 | 10.00 | 48.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W038050070WO | 38.00 | +0.00 / -0.04 | 38.00 | 50.00 | 7.00 | 10.00 | 50.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W038052075WO | 38.40 | +0.00 / -0.04 | 38.40 | 52.00 | 7.50 | 10.50 | 52.00 | +0.05 / -0.00 | | | 7.50 | +0.50 / -0.00 | | |
| W040050050WO | 40.00 | +0.00 / -0.05 | 40.00 | 50.00 | 5.00 | 8.00 | 50.00 | +0.04 / -0.00 | | | 5.00 | +0.50 / -0.00 | | |
| W040050070WO | 40.00 | +0.00 / -0.05 | 40.00 | 50.00 | 7.00 | 10.00 | 50.00 | +0.04 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W040052070WO | 40.00 | +0.00 / -0.04 | 40.00 | 52.00 | 7.00 | 10.00 | 52.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W040060076WO | 40.00 | +0.00 / -0.05 | 40.00 | 60.00 | 7.60 | 10.60 | 60.00 | +0.05 / -0.00 | | | 7.60 | +0.50 / -0.00 | | |
| W042052070WO | 42.00 | +0.00 / -0.05 | 42.00 | 52.00 | 7.00 | 10.00 | 52.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W045055070WO | 45.00 | +0.00 / -0.05 | 45.00 | 55.00 | 7.00 | 10.00 | 55.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W045057070WO | 45.00 | +0.00 / -0.05 | 45.00 | 57.00 | 7.00 | 10.00 | 57.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W047059070WO | 47.00 | +0.00 / -0.05 | 47.00 | 59.00 | 7.00 | 10.00 | 59.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W047062090WO | 47.60 | +0.00 / -0.05 | 47.60 | 62.00 | 9.00 | 12.00 | 62.00 | +0.05 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W050060070WO | 50.00 | +0.00 / -0.05 | 50.00 | 60.00 | 7.00 | 10.00 | 60.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W050062070WO | 50.00 | +0.00 / -0.05 | 50.00 | 62.00 | 7.00 | 10.00 | 62.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |

NOTE: MINIMUM LINE ORDER MAY APPLY

**METRIC SIZE
ROD WIPERS**



WO SERIES - AU/STEEL

| Ref.Number | Rod diameter | Nominal Seal Dimensions | | | | Housing Dimensions | | | | | | | | |
|--------------|--------------|-------------------------|--------|--------|-------|--------------------|--------|---------------|------|----|-------|---------------|------|--|
| | Tol. | d | D | h | H | D1 | Tol. | D2 | Tol. | h1 | Tol. | H1 | Tol. | |
| W050065070WO | 50.00 | +0.00 / -0.05 | 50.00 | 65.00 | 7.00 | 10.00 | 65.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W053067080WO | 53.00 | +0.00 / -0.05 | 53.00 | 67.00 | 8.00 | 11.00 | 67.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W055065070WO | 55.00 | +0.00 / -0.05 | 55.00 | 65.00 | 7.00 | 10.00 | 65.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W055069080WO | 55.00 | +0.00 / -0.05 | 55.00 | 69.00 | 8.00 | 11.00 | 69.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W055070070WO | 55.00 | +0.00 / -0.05 | 55.00 | 70.00 | 7.00 | 10.00 | 70.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W056066070WO | 56.00 | +0.00 / -0.05 | 56.00 | 66.00 | 7.00 | 10.00 | 66.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W056070080WO | 56.00 | +0.00 / -0.05 | 56.00 | 70.00 | 8.00 | 11.00 | 70.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W060070070WO | 60.00 | +0.00 / -0.05 | 60.00 | 70.00 | 7.00 | 10.00 | 70.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W060074080WO | 60.00 | +0.00 / -0.05 | 60.00 | 74.00 | 8.00 | 11.00 | 74.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W060080100WO | 60.00 | +0.00 / -0.05 | 60.00 | 80.00 | 10.00 | 13.00 | 80.00 | +0.05 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W063073070WO | 63.00 | +0.00 / -0.05 | 63.00 | 73.00 | 7.00 | 10.00 | 73.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W063075070WO | 63.00 | +0.00 / -0.05 | 63.00 | 75.00 | 7.00 | 10.00 | 75.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W063077080WO | 63.00 | +0.00 / -0.05 | 63.00 | 77.00 | 8.00 | 11.00 | 77.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W063078070WO | 63.00 | +0.00 / -0.05 | 63.00 | 78.00 | 7.00 | 10.00 | 78.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W064078080WO | 64.00 | +0.00 / -0.06 | 64.00 | 78.00 | 8.00 | 11.00 | 78.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W065075070WO | 65.00 | +0.00 / -0.06 | 65.00 | 75.00 | 7.00 | 10.00 | 75.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W065079080WO | 65.00 | +0.00 / -0.06 | 65.00 | 79.00 | 8.00 | 11.00 | 79.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W067081080WO | 67.00 | +0.00 / -0.06 | 67.00 | 81.00 | 8.00 | 11.00 | 81.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W070080070WO | 70.00 | +0.00 / -0.06 | 70.00 | 80.00 | 7.00 | 10.00 | 80.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W070084080WO | 70.00 | +0.00 / -0.06 | 70.00 | 84.00 | 8.00 | 11.00 | 84.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W070086105WO | 70.00 | +0.00 / -0.06 | 70.00 | 86.00 | 10.50 | 13.50 | 86.00 | +0.05 / -0.00 | | | 10.50 | +0.50 / -0.00 | | |
| W070090100WO | 70.00 | +0.00 / -0.06 | 70.00 | 90.00 | 10.00 | 13.00 | 90.00 | +0.05 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W071085080WO | 71.00 | +0.00 / -0.06 | 71.00 | 85.00 | 8.00 | 11.00 | 85.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W075085070WO | 75.00 | +0.00 / -0.06 | 75.00 | 85.00 | 7.00 | 10.00 | 85.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W075089080WO | 75.00 | +0.00 / -0.06 | 75.00 | 89.00 | 8.00 | 11.00 | 89.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W080090070WO | 80.00 | +0.00 / -0.09 | 80.00 | 90.00 | 7.00 | 10.00 | 90.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W080094080WO | 80.00 | +0.00 / -0.09 | 80.00 | 94.00 | 8.00 | 11.00 | 94.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W080095070WO | 80.00 | +0.00 / -0.09 | 80.00 | 95.00 | 7.00 | 10.00 | 95.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W080100120WO | 80.00 | +0.00 / -0.09 | 80.00 | 100.00 | 12.00 | 15.00 | 100.00 | +0.05 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W085095070WO | 85.00 | +0.00 / -0.09 | 85.00 | 95.00 | 7.00 | 10.00 | 95.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W085099080WO | 85.00 | +0.00 / -0.09 | 85.00 | 99.00 | 8.00 | 11.00 | 99.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W090100070WO | 90.00 | +0.00 / -0.09 | 90.00 | 100.00 | 7.00 | 10.00 | 100.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W090104080WO | 90.00 | +0.00 / -0.09 | 90.00 | 104.00 | 8.00 | 11.00 | 104.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W090110080WO | 90.00 | +0.00 / -0.09 | 90.00 | 110.00 | 8.00 | 11.00 | 110.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W090110100WO | 90.00 | +0.00 / -0.09 | 90.00 | 110.00 | 10.00 | 13.00 | 110.00 | +0.05 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W092106080WO | 92.00 | +0.00 / -0.09 | 92.00 | 106.00 | 8.00 | 11.00 | 106.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W095109080WO | 95.00 | +0.00 / -0.09 | 95.00 | 109.00 | 8.00 | 11.00 | 109.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W100110070WO | 100.00 | +0.00 / -0.09 | 100.00 | 110.00 | 7.00 | 10.00 | 110.00 | +0.05 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W100114080WO | 100.00 | +0.00 / -0.09 | 100.00 | 114.00 | 8.00 | 11.00 | 114.00 | +0.05 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W100120100WO | 100.00 | +0.00 / -0.09 | 100.00 | 120.00 | 10.00 | 13.00 | 120.00 | +0.05 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W105115070WO | 105.00 | +0.00 / -0.09 | 105.00 | 115.00 | 7.00 | 10.00 | 115.00 | +0.06 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W105121090WO | 105.00 | +0.00 / -0.13 | 105.00 | 121.00 | 9.00 | 12.00 | 121.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W106122090WO | 106.00 | +0.00 / -0.13 | 106.00 | 122.00 | 9.00 | 12.00 | 122.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W108125090WO | 108.00 | +0.00 / -0.13 | 108.00 | 125.00 | 9.00 | 12.00 | 125.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W110120070WO | 110.00 | +0.00 / -0.13 | 110.00 | 120.00 | 7.00 | 10.00 | 120.00 | +0.06 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W110126090WO | 110.00 | +0.00 / -0.13 | 110.00 | 126.00 | 9.00 | 12.00 | 126.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W112128060WO | 112.00 | +0.00 / -0.13 | 112.00 | 128.00 | 6.00 | 8.00 | 128.00 | +0.06 / -0.00 | | | 6.00 | +0.50 / -0.00 | | |

NOTE: MINIMUM LINE ORDER MAY APPLY



WO SERIES - AU/STEEL

| Ref.Number | Rod diameter | | Nominal Seal Dimensions | | | | Housing Dimensions | | | | | | | |
|------------------|--------------|---------------|-------------------------|--------|-------|-------|--------------------|---------------|----|------|-------|---------------|----|------|
| | | Tol. | d | D | h | H | D1 | Tol. | D2 | Tol. | h1 | Tol. | H1 | Tol. |
| W112128090WO | 112.00 | +0.00 / -0.13 | 112.00 | 128.00 | 9.00 | 12.00 | 128.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W115129080WO | 115.00 | +0.00 / -0.13 | 115.00 | 129.00 | 8.00 | 11.00 | 129.00 | +0.06 / -0.00 | | | 8.00 | +0.50 / -0.00 | | |
| W115131090WO | 115.00 | +0.00 / -0.13 | 115.00 | 131.00 | 9.00 | 12.00 | 131.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W118134090WO | 118.00 | +0.00 / -0.13 | 118.00 | 134.00 | 9.00 | 12.00 | 134.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W120130070WO | 120.00 | +0.00 / -0.13 | 120.00 | 130.00 | 7.00 | 10.00 | 130.00 | +0.06 / -0.00 | | | 7.00 | +0.50 / -0.00 | | |
| W120136090WO | 120.00 | +0.00 / -0.13 | 120.00 | 136.00 | 9.00 | 12.00 | 136.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W120160170WO | 120.70 | +0.00 / -0.13 | 120.70 | 160.00 | 17.00 | 20.00 | 160.00 | +0.06 / -0.00 | | | 17.00 | +0.50 / -0.00 | | |
| W125140090WO | 125.00 | +0.00 / -0.13 | 125.00 | 140.00 | 9.00 | 12.00 | 140.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W125141090WO | 125.00 | +0.00 / -0.13 | 125.00 | 141.00 | 9.00 | 12.00 | 141.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W130146060WO | 130.00 | +0.00 / -0.13 | 130.00 | 146.00 | 6.00 | 9.00 | 146.00 | +0.06 / -0.00 | | | 6.00 | +0.50 / -0.00 | | |
| W130146090WO | 130.00 | +0.00 / -0.13 | 130.00 | 146.00 | 9.00 | 12.00 | 146.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W132148090WO | 132.00 | +0.00 / -0.13 | 132.00 | 148.00 | 9.00 | 12.00 | 148.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W135155100WO | 135.00 | +0.00 / -0.13 | 135.00 | 155.00 | 10.00 | 14.00 | 155.00 | +0.06 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W140155090WO | 140.00 | +0.00 / -0.13 | 140.00 | 155.00 | 9.00 | 12.00 | 155.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W140160100WO | 140.00 | +0.00 / -0.13 | 140.00 | 160.00 | 10.00 | 14.00 | 160.00 | +0.06 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W145165100WO | 145.00 | +0.00 / -0.13 | 145.00 | 165.00 | 10.00 | 14.00 | 165.00 | +0.06 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W150165090WO | 150.00 | +0.00 / -0.13 | 150.00 | 165.00 | 9.00 | 12.00 | 165.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W150170100WO | 150.00 | +0.00 / -0.13 | 150.00 | 170.00 | 10.00 | 14.00 | 170.00 | +0.06 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W155175060WO | 155.00 | +0.00 / -0.13 | 155.00 | 175.00 | 6.00 | 10.00 | 175.00 | +0.06 / -0.00 | | | 6.00 | +0.50 / -0.00 | | |
| W155175100WO | 155.00 | +0.00 / -0.13 | 155.00 | 175.00 | 10.00 | 14.00 | 175.00 | +0.06 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W157177100WO | 157.00 | +0.00 / -0.13 | 157.00 | 177.00 | 10.00 | 14.00 | 177.00 | +0.06 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W160175090WO | 160.00 | +0.00 / -0.13 | 160.00 | 175.00 | 9.00 | 12.00 | 175.00 | +0.06 / -0.00 | | | 9.00 | +0.50 / -0.00 | | |
| W160180100WO | 160.00 | +0.00 / -0.13 | 160.00 | 180.00 | 10.00 | 14.00 | 180.00 | +0.06 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W165185100WO | 165.00 | +0.00 / -0.13 | 165.00 | 185.00 | 10.00 | 14.00 | 185.00 | +0.07 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W170190100WO | 170.00 | +0.00 / -0.13 | 170.00 | 190.00 | 10.00 | 14.00 | 190.00 | +0.07 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W175195100WO | 175.00 | +0.00 / -0.13 | 175.00 | 195.00 | 10.00 | 14.00 | 195.00 | +0.07 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W180205120WO | 180.00 | +0.00 / -0.13 | 180.00 | 205.00 | 12.00 | 17.00 | 205.00 | +0.07 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W180205120WO/OEM | 180.00 | +0.00 / -0.13 | 180.00 | 205.00 | 12.00 | 17.00 | 205.00 | +0.07 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W185210120WO | 185.00 | +0.00 / -0.13 | 185.00 | 210.00 | 12.00 | 17.00 | 210.00 | +0.07 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W190215120WO | 190.00 | +0.00 / -0.13 | 190.00 | 215.00 | 12.00 | 17.00 | 215.00 | +0.07 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W195220120WO | 195.00 | +0.00 / -0.13 | 195.00 | 220.00 | 12.00 | 17.00 | 220.00 | +0.07 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W200225120WO | 200.00 | +0.00 / -0.13 | 200.00 | 225.00 | 12.00 | 17.00 | 225.00 | +0.07 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W200225120WO/OEM | 200.00 | +0.00 / -0.13 | 200.00 | 225.00 | 12.00 | 17.00 | 225.00 | +0.07 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W210235120WO | 210.00 | +0.00 / -0.13 | 210.00 | 235.00 | 12.00 | 17.00 | 235.00 | +0.07 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W212237120WO | 212.00 | +0.00 / -0.13 | 212.00 | 237.00 | 12.00 | 17.00 | 237.00 | +0.07 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W215240120WO | 215.00 | +0.00 / -0.13 | 215.00 | 240.00 | 12.00 | 17.00 | 240.00 | +0.07 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W220245120WO | 220.00 | +0.00 / -0.13 | 220.00 | 245.00 | 12.00 | 17.00 | 245.00 | +0.07 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W220245120WO/OEM | 220.00 | +0.00 / -0.13 | 220.00 | 245.00 | 12.00 | 17.00 | 245.00 | +0.07 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W224249120WO | 224.00 | +0.00 / -0.13 | 224.00 | 249.00 | 12.00 | 17.00 | 249.00 | +0.07 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W225250120WO | 225.00 | +0.00 / -0.13 | 225.00 | 250.00 | 12.00 | 17.00 | 250.00 | +0.07 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W230255120WO | 230.00 | +0.00 / -0.13 | 230.00 | 255.00 | 12.00 | 17.00 | 255.00 | +0.08 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W236261120WO | 236.00 | +0.00 / -0.13 | 236.00 | 261.00 | 12.00 | 17.00 | 261.00 | +0.08 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W240265120WO | 240.00 | +0.00 / -0.13 | 240.00 | 265.00 | 12.00 | 17.00 | 265.00 | +0.08 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W245270120WO | 245.00 | +0.00 / -0.13 | 245.00 | 270.00 | 12.00 | 17.00 | 270.00 | +0.08 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W250275120WO | 250.00 | +0.00 / -0.13 | 250.00 | 275.00 | 12.00 | 17.00 | 275.00 | +0.08 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W260280100WO | 260.00 | +0.00 / -0.13 | 260.00 | 280.00 | 10.00 | 14.00 | 280.00 | +0.08 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W260285120WO | 260.00 | +0.00 / -0.13 | 260.00 | 285.00 | 12.00 | 17.00 | 285.00 | +0.08 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |

NOTE: MINIMUM LINE ORDER MAY APPLY

**METRIC SIZE
ROD WIPERS**



WO SERIES - AU/STEEL

| Ref.Number | Rod diameter | Nominal Seal Dimensions | | | | Housing Dimensions | | | | | | | |
|--------------|----------------------|-------------------------|--------|-------|-------|--------------------|---------------|----|------|-------|---------------|----|------|
| | Tol. | d | D | h | H | D1 | Tol. | D2 | Tol. | h1 | Tol. | H1 | Tol. |
| W265290120WO | 265.00 +0.00 / -0.13 | 265.00 | 290.00 | 12.00 | 17.00 | 290.00 | +0.08 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W280310160WO | 280.00 +0.00 / -0.13 | 280.00 | 310.00 | 16.00 | 22.00 | 310.00 | +0.08 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W290320160WO | 290.00 +0.00 / -0.13 | 290.00 | 320.00 | 16.00 | 22.00 | 320.00 | +0.09 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W300330160WO | 300.00 +0.00 / -0.13 | 300.00 | 330.00 | 16.00 | 22.00 | 330.00 | +0.09 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W310340160WO | 310.00 +0.00 / -0.13 | 310.00 | 340.00 | 16.00 | 22.00 | 340.00 | +0.09 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W320350160WO | 320.00 +0.00 / -0.13 | 320.00 | 350.00 | 16.00 | 22.00 | 350.00 | +0.09 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W330360160WO | 330.00 +0.00 / -0.13 | 330.00 | 360.00 | 16.00 | 22.00 | 360.00 | +0.09 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W340370160WO | 340.00 +0.00 / -0.13 | 340.00 | 370.00 | 16.00 | 22.00 | 370.00 | +0.09 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W345375160WO | 345.00 +0.00 / -0.13 | 345.00 | 375.00 | 16.00 | 22.00 | 375.00 | +0.09 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W350380160WO | 350.00 +0.00 / -0.13 | 350.00 | 380.00 | 16.00 | 22.00 | 380.00 | +0.09 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W355385160WO | 355.00 +0.00 / -0.13 | 355.00 | 385.00 | 16.00 | 22.00 | 385.00 | +0.09 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W360390160WO | 360.00 +0.00 / -0.13 | 360.00 | 390.00 | 16.00 | 22.00 | 390.00 | +0.09 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W365395160WO | 365.00 +0.00 / -0.13 | 365.00 | 395.00 | 16.00 | 22.00 | 395.00 | +0.09 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W370400160WO | 370.00 +0.00 / -0.13 | 370.00 | 400.00 | 16.00 | 22.00 | 400.00 | +0.09 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W375405160WO | 375.00 +0.00 / -0.13 | 375.00 | 405.00 | 16.00 | 22.00 | 405.00 | +0.10 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W380410160WO | 380.00 +0.00 / -0.13 | 380.00 | 410.00 | 16.00 | 22.00 | 410.00 | +0.10 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W390420100WO | 390.00 +0.00 / -0.13 | 390.00 | 420.00 | 10.00 | 14.00 | 420.00 | +0.10 / -0.00 | | | 10.00 | +0.50 / -0.00 | | |
| W390420160WO | 390.00 +0.00 / -0.13 | 390.00 | 420.00 | 16.00 | 22.00 | 420.00 | +0.10 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W400430160WO | 400.00 +0.00 / -0.13 | 400.00 | 430.00 | 16.00 | 22.00 | 430.00 | +0.10 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W425460180WO | 425.00 +0.00 / -0.13 | 425.00 | 460.00 | 18.00 | 24.00 | 460.00 | +0.10 / -0.00 | | | 18.00 | +0.50 / -0.00 | | |
| W438463120WO | 438.00 +0.00 / -0.13 | 438.00 | 463.00 | 12.00 | 17.00 | 463.00 | +0.10 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W445480160WO | 445.00 +0.00 / -0.13 | 445.00 | 480.00 | 16.00 | 22.00 | 480.00 | +0.10 / -0.00 | | | 16.00 | +0.50 / -0.00 | | |
| W460490200WO | 460.00 +0.00 / -0.13 | 460.00 | 490.00 | 20.00 | 26.00 | 490.00 | +0.10 / -0.00 | | | 20.00 | +0.50 / -0.00 | | |
| W468503180WO | 468.00 +0.00 / -0.13 | 468.00 | 503.00 | 18.00 | 24.00 | 503.00 | +0.10 / -0.00 | | | 18.00 | +0.50 / -0.00 | | |
| W470505180WO | 470.00 +0.00 / -0.13 | 470.00 | 505.00 | 18.00 | 24.00 | 505.00 | +0.10 / -0.00 | | | 18.00 | +0.50 / -0.00 | | |
| W475500120WO | 475.00 +0.00 / -0.13 | 475.00 | 500.00 | 12.00 | 17.00 | 500.00 | +0.10 / -0.00 | | | 12.00 | +0.50 / -0.00 | | |
| W480510200WO | 480.00 +0.00 / -0.13 | 480.00 | 510.00 | 20.00 | 26.00 | 510.00 | +0.10 / -0.00 | | | 20.00 | +0.50 / -0.00 | | |
| W540580200WO | 540.00 +0.00 / -0.13 | 540.00 | 580.00 | 20.00 | 26.00 | 580.00 | +0.10 / -0.00 | | | 20.00 | +0.50 / -0.00 | | |
| W600640250WO | 600.00 +0.00 / -0.13 | 600.00 | 640.00 | 25.00 | 30.00 | 640.00 | +0.10 / -0.00 | | | 25.00 | +0.50 / -0.00 | | |
| W650690180WO | 650.00 +0.00 / -0.13 | 650.00 | 690.00 | 18.00 | 24.00 | 690.00 | +0.10 / -0.00 | | | 18.00 | +0.50 / -0.00 | | |
| W650700250WO | 650.00 +0.00 / -0.13 | 650.00 | 700.00 | 25.00 | 35.00 | 700.00 | +0.10 / -0.00 | | | 25.00 | +0.50 / -0.00 | | |
| W720750180WO | 720.00 +0.00 / -0.13 | 720.00 | 750.00 | 18.00 | 24.00 | 750.00 | +0.10 / -0.00 | | | 18.00 | +0.50 / -0.00 | | |

NOTE: MINIMUM LINE ORDER MAY APPLY

**METRIC SIZE
ROD WIPERS**

