

Tough Rubber Elastomer recommended fit @ 70°F / 21°C

| Model | Group No. | Rotor C to V | Rotor ECC | Nominal Minor @ 70°F (Vector) | Nominal Shop @ 70°F (Vector) | .001" Change per °F/°C** | Group Number Operating Temperature | | | | | | | | | | | | | |
|--------|-----------|--------------|-----------|-------------------------------|------------------------------|--------------------------|------------------------------------|-------|---------|---------|---------|-------|-------|-------|-------|-------|-------|-------|--|--|
| | | | | | | | 100°F | 120°F | 140°F | 160°F | 180°F | 200°F | 220°F | 240°F | 260°F | 280°F | 300°F | 320°F | | |
| 375435 | 0 | 1.795 | 0.182 | 1.795 | 0.000 | 6 / 3.3 | | | | optimum | | | | | | | | | | |
| 475460 | 2 | 2.423 | 0.245 | *2.430 | -0.007 | 5 / 2.8 | | | | optimum | | | | | | | | | | |
| 475463 | 4 | 2.423 | 0.245 | *2.439 | -0.016 | 5.5 / 3.1 | | | | | optimum | | | | | | | | | |
| 475567 | 0 | 2.527 | 0.213 | *2.528 | -0.001 | 5 / 2.8 | | | optimum | | | | | | | | | | | |
| | 4 | | | *2.544 | -0.017 | | | | optimum | | | | | | | | | | | |
| 475583 | 0 | 2.506 | 0.205 | *2.505 | 0.001 | 5.5 / 3.1 | | | optimum | | | | | | | | | | | |
| | 4 | | | *2.525 | -0.019 | | | | optimum | | | | | | | | | | | |
| | 5 | | | *2.536 | -0.030 | | | | | optimum | | | | | | | | | | |
| 475726 | T | 2.75 | 0.172 | *2.747 | 0.003 | 7 / 3.9 | | | optimum | | | | | | | | | | | |
| | 0 | | | *2.756 | -0.006 | | | | optimum | | | | | | | | | | | |
| | 2 | | | *2.765 | -0.015 | | | | | optimum | | | | | | | | | | |
| 475729 | 0 | 2.473 | 0.163 | *2.479 | -0.006 | 5.5 / 3.1 | | | | optimum | | | | | | | | | | |
| 475731 | 0 | 2.688 | 0.168 | 2.695 | -0.007 | 7 / 3.9 | | | | optimum | | | | | | | | | | |
| 475737 | 0 | 2.767 | 0.177 | *2.770 | -0.003 | 6.5 / 3.7 | | | | optimum | | | | | | | | | | |
| 475738 | 0 | 2.619 | 0.163 | 2.629 | -0.010 | 6 / 3.3 | | | | optimum | | | | | | | | | | |
| | 2 | | | *2.632 | -0.013 | | | | optimum | | | | | | | | | | | |
| | 4 | | | *2.650 | -0.031 | | | | | optimum | | | | | | | | | | |
| | 7 | | | *2.656 | -0.037 | | | | | | optimum | | | | | | | | | |
| 475750 | T | 2.703 | 0.169 | *2.698 | 0.005 | 4 / 2.2 | | | | optimum | | | | | | | | | | |
| | 0 | | | 2.713 | -0.010 | | | | | optimum | | | | | | | | | | |
| | | | | | | | 38°C | 49°C | 60°C | 71°C | 82°C | 93°C | 104°C | 116°C | 127°C | 138°C | 149°C | 160°C | | |

* Vector measurements shown with asterisk are preliminary and are subject to change as additional data points are collected.
 ** Denotes the temperature change required to change the minor diameter by .001".

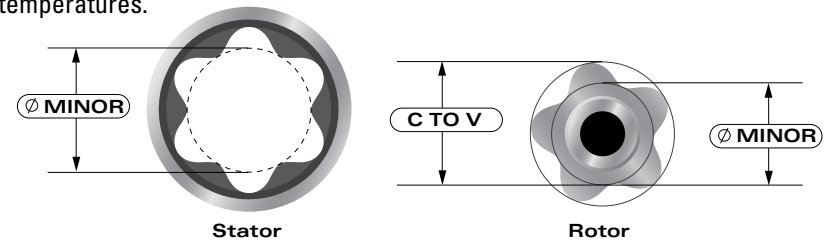
The formulas below can be used as a guideline to size rotors and stators for optimum setup at the suggested temperatures.

Odd Lobe Rotor

Rotor C to V – Stator Minor = fit *
 (*) negative = clearance; positive = compression

Even Lobe Rotor

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|--------|-----------|--------------|-----------|-------------------------------|------------------------------|--------------------------|------------------------------------|-------|---------|---------|---------|-------|-------|-------|-------|-------|-------|-------|--|--|
| | | | | | | | 100°F | 120°F | 140°F | 160°F | 180°F | 200°F | 220°F | 240°F | 260°F | 280°F | 300°F | 320°F | | |
| 500545 | 0 | 2.504 | 0.162 | *2.526 | -0.022 | 6 / 3.3 | | | | optimum | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 500660 | 0 | 2.635 | 0.192 | *2.635 | 0.000 | 5 / 2.8 | | | optimum | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 500670 | 0 | 2.635 | 0.192 | *2.635 | 0.000 | 5 / 2.8 | | | optimum | | | | | | | | | | | |
| | 4 | | | | | | | | | | optimum | | | | | | | | | |
| 500680 | 0 | 2.635 | 0.192 | *2.635 | 0.000 | 5 / 2.8 | | | optimum | | | | | | | | | | | |
| | 4 | | | | | | | | | | optimum | | | | | | | | | |
| 500688 | 0 | 2.864 | 0.217 | *2.862 | 0.002 | 6 / 3.3 | | | optimum | | | | | | | | | | | |
| | 4 | | | | | | | | | | optimum | | | | | | | | | |
| 625733 | 0 | 3.741 | 0.235 | *2.901 | -0.037 | 6 / 3.3 | | | optimum | | | | | | | | | | | |
| | 7 | | | | | | | | | | optimum | | | | | | | | | |
| 625735 | 0 | 3.628 | 0.223 | *3.739 | 0.002 | 5 / 2.8 | | | optimum | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 625748 | 0 | 3.530 | 0.225 | 3.625 | 0.003 | 5 / 2.8 | | | optimum | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 650545 | 0 | 3.329 | 0.282 | 3.546 | -0.016 | 4 / 2.2 | | | optimum | | | | | | | | | | | |
| | 7 | | | | | | | | | | optimum | | | | | | | | | |
| 675470 | 0 | 3.512 | 0.354 | *3.337 | -0.008 | 3.5 / 1.9 | | | optimum | | | | | | | | | | | |
| | 4 | | | | | | | | | | optimum | | | | | | | | | |
| 675650 | 0 | 3.740 | 0.288 | 3.513 | -0.001 | 4 / 2.2 | | | optimum | | | | | | | | | | | |
| | 4 | | | | | | | | | | optimum | | | | | | | | | |
| 675729 | 0 | 3.808 | 0.244 | 3.537 | -0.025 | 4 / 2.2 | | | optimum | | | | | | | | | | | |
| | 4 | | | | | | | | | | optimum | | | | | | | | | |
| | | | | *3.744 | -0.004 | | | | optimum | | | | | | | | | | | |
| | | | | 3.765 | -0.025 | | | | optimum | | | | | | | | | | | |
| | | | | 3.775 | -0.035 | | | | optimum | | | | | | | | | | | |
| | | | | 3.816 | -0.008 | | | | optimum | | | | | | | | | | | |
| | | | | *3.836 | -0.028 | | | | optimum | | | | | | | | | | | |

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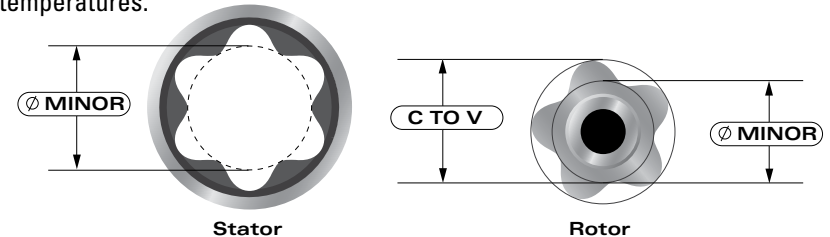
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|--------|-----------|--------------|-----------|-------------------------------|------------------------------|--------------------------|------------------------------------|-------|-------|---------|-------|---------|---------|-------|-------|---------|-------|-------|
| | | | | | | | 100°F | 120°F | 140°F | 160°F | 180°F | 200°F | 220°F | 240°F | 260°F | 280°F | 300°F | 320°F |
| 675733 | 0 | 3.990 | 0.255 | 3.995 | -0.005 | 5 / 2.8 | | | | optimum | | | | | | | | |
| | 4 | | | 3.998 | 0.010 | | | | | optimum | | | | | | | | |
| 675750 | 4 | 4.008 | 0.256 | *4.016 | -0.008 | 5 / 2.8 | | | | | | | optimum | | | | | |
| | 7 | | | *4.044 | -0.036 | | | | | | | optimum | | | | optimum | | |
| 675757 | 0 | 4.153 | 0.247 | *4.144 | 0.009 | 5.5 / 3.1 | | | | optimum | | | | | | | | |
| | 4 | | | *4.169 | -0.016 | | | | | | | optimum | | | | | | |
| 675760 | 0 | 4.008 | 0.256 | 4.009 | -0.001 | 5 / 2.8 | | | | optimum | | | | | | | | |
| | 4 | | | 4.020 | -0.012 | | | | | | | optimum | | | | | | |
| 675764 | 0 | 4.008 | 0.256 | 4.009 | -0.001 | 5 / 2.8 | | | | optimum | | | | | | | | |
| | 4 | | | 4.020 | -0.012 | | | | | | | optimum | | | | | | |
| 700582 | 0 | 3.701 | 0.335 | *3.694 | 0.007 | 4 / 2.2 | | | | optimum | | | | | | | | |
| | 4 | | | *3.723 | -0.022 | | | | | | | optimum | | | | | | |
| 700584 | 0 | 3.896 | 0.339 | 3.888 | 0.008 | 3.9 / 2.1 | | | | optimum | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | |
| 700594 | 0 | 3.845 | 0.339 | *3.848 | -0.003 | 3.3 / 1.8 | | | | optimum | | | | | | | | |
| | 4 | | | *3.873 | -0.028 | | | | | | | optimum | | | | | | |
| 700768 | 0 | 4.039 | 0.250 | *4.045 | -0.006 | 3.3 / 1.8 | | | | optimum | | | | | | | | |
| | 4 | | | *4.064 | -0.025 | | | | | | | optimum | | | | | | |
| 700769 | 0 | 4.128 | 0.271 | *4.136 | -0.008 | 3 / 1.7 | | | | optimum | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 700775 | 0 | 4.09 | 0.258 | *4.089 | 0.001 | 4.3 / 2.4 | | | | optimum | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

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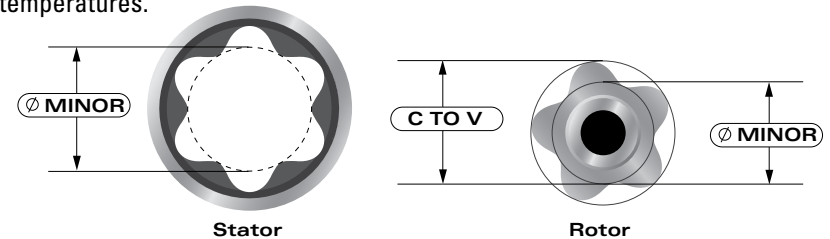
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| | | | | | | | 100°F | 120°F | 140°F | 160°F | 180°F | 200°F | 220°F | 240°F | 260°F | 280°F | 300°F | 320°F | | | | |
| 800453 | 0 | 4.110 | 0.415 | 4.098 | 0.012 | 3 / 1.7 | | | | optimum | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 800550 | 0 | 4.102 | 0.382 | *4.120 | -0.018 | 3.5 / 1.9 | | | | optimum | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 800640 | T | 4.286 | 0.336 | *4.281 | 0.005 | 3.5 / 1.9 | optimum | | | | | | | | | | | | | | | |
| | 0 | | | | | | optimum | | | | | | | | | | | | | | | |
| | 4 | | | | | | optimum | | | | | | optimum | | | | | | | | | |
| 800722 | 0 | 4.520 | 0.278 | *4.313 | -0.027 | 4 / 2.2 | | | optimum | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 800740 | 0 | 4.600 | 0.293 | *4.597 | 0.003 | 4.5 / 2.5 | | | optimum | | | | | | | | | | | | | |
| | 2 | | | | | | optimum | | | | | | | | | | | | | | | |
| | 4 | | | | | | optimum | | | | | | optimum | | | | | | | | | |
| 962650 | 0 | 5.548 | 0.428 | 5.535 | 0.013 | 3 / 1.7 | | | optimum | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | |

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