

PV Fluid Products

375435 thru 475750
Tough Rubber Elastomer recommended fit @ 70 °F / 21 °C

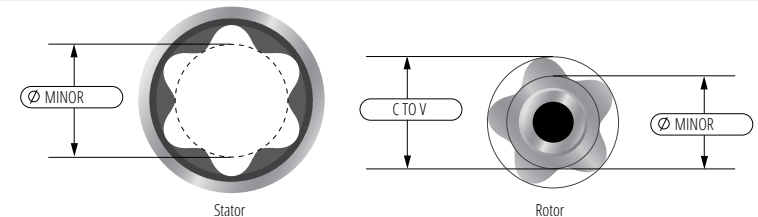


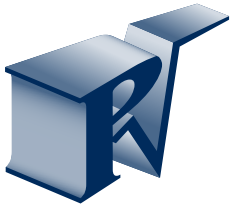
| Model | Group No. | Rotor C to V | Rotor ECC | Nominal Minor @ 70 °F (Vector) | Nominal Shop @ 70 °F (Vector) | .001" Change per °F/°C** | Group Number Operating Temperature | | | | | | | | | | | | | | | | | |
|--------|-----------|--------------|-----------|--------------------------------|-------------------------------|--------------------------|------------------------------------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|--|--|
| | | | | | | | 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 | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | |

* 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
 Rotor Minor + 2ecc – Stator Minor = fit *
 (* negative = clearance; positive = compression)





800453 thru 962650



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

PV Fluid Products

| 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 | | |
| 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 | | | | | | | | |
| 800722 | 0 | 4.520 | 0.278 | 4.517 | 0.003 | 4 / 2.2 | | | | optimum | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 800740 | 0 | 4.600 | 0.293 | *4.597 | 0.003 | 4.5 / 2.5 | | | | optimum | | | | | | | | | | |
| | 2 | | | | | | optimum | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | optimum | | | | | | | | |
| 962650 | 0 | 5.548 | 0.428 | 5.535 | 0.013 | 3 / 1.7 | | | | optimum | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

* Vector measurements shown with asterisk are preliminary and are subject to change as additional data points are collected.
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Odd Lobe Rotor
 Rotor C to V – Stator Minor = fit *
 (*) negative = clearance; positive = compression

Even Lobe Rotor
 Rotor Minor + 2ecc – Stator Minor = fit *
 (*) negative = clearance; positive = compression