

# 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										

\* 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".

38°C   49°C   60°C   71°C   82°C   93°C   104°C   116°C   127°C   138°C   149°C   160°C

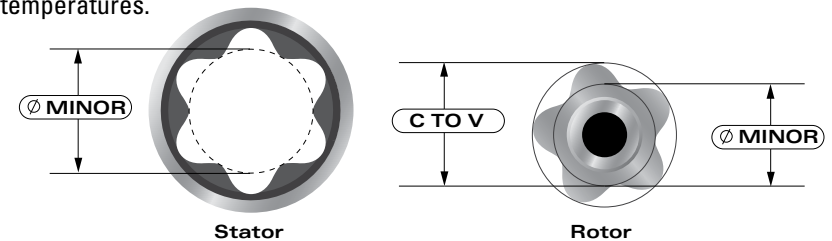
The formulas below can be used as a guideline to size rotors and stators for optimum setup at the suggested temperatures.

**Odd Lobe Rotor**

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

**Even Lobe Rotor**

Rotor Minor + 2ecc – Stator Minor = fit \*  
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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												
	7														optimum										
625733	0	3.741	0.235	*3.739	0.002	6 / 3.3				optimum															
625735	0	3.628	0.223	3.625	0.003	5 / 2.8				optimum															
625748	0	3.530	0.225	3.546	-0.016	5 / 2.8				optimum															
650545	0	3.329	0.282	*3.337	-0.008	4 / 2.2				optimum															
	7																					optimum			
675470	0	3.512	0.354	3.513	-0.001	3.5 / 1.9				optimum															
	4													optimum											
675650	0	3.740	0.288	*3.744	-0.004	4 / 2.2				optimum															
	4														optimum										
	7																						optimum		

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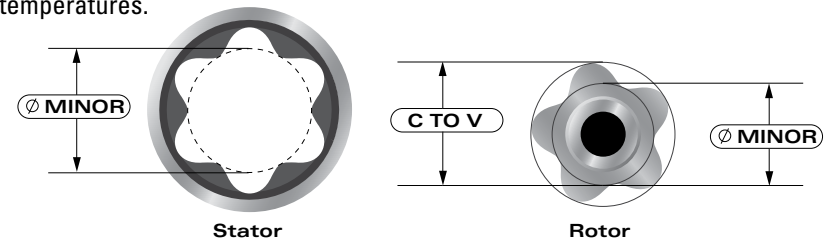
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							100°F	120°F	140°F	160°F	180°F	200°F	220°F	240°F	260°F	280°F	300°F	320°F
675729	0	3.808	0.244	3.816	-0.008	4 / 2.2				optimum								
	4			*3.836	-0.028						optimum							
675733	0	3.990	0.255	3.995	-0.005	5 / 2.8				optimum								
675750	0	4.008	0.256	3.998	0.010	5 / 2.8				optimum								
	4			*4.016	-0.008						optimum							
	7			*4.044	-0.036												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							
700768	0	4.039	0.250	*4.045	-0.006	3.3 / 1.8				optimum								
	4			*4.064	-0.025						optimum							
700775	0	4.09	0.258	*4.089	0.001	4.3 / 2.4				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

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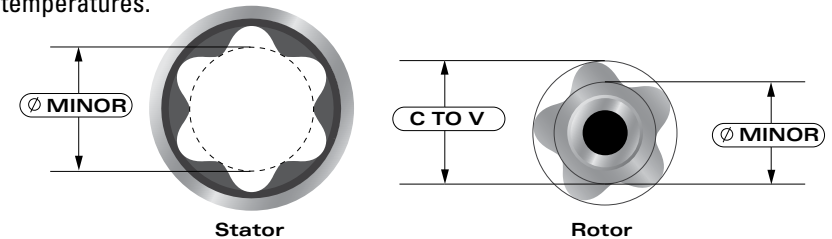
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							100°F	120°F	140°F	160°F	180°F	200°F	220°F	240°F	260°F	280°F	300°F	320°F		
800453	0	4.110	0.415	4.098	0.012	3 / 1.7				optimum										
800550	0	4.102	0.382	*4.120	-0.018	3.5 / 1.9				optimum										
800640	T	4.286	0.336	*4.281	0.005	3.5 / 1.9	optimum													
	0								optimum											
	4												optimum							
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							
962650	0	5.548	0.428	5.535	0.013	3 / 1.7			optimum											
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