

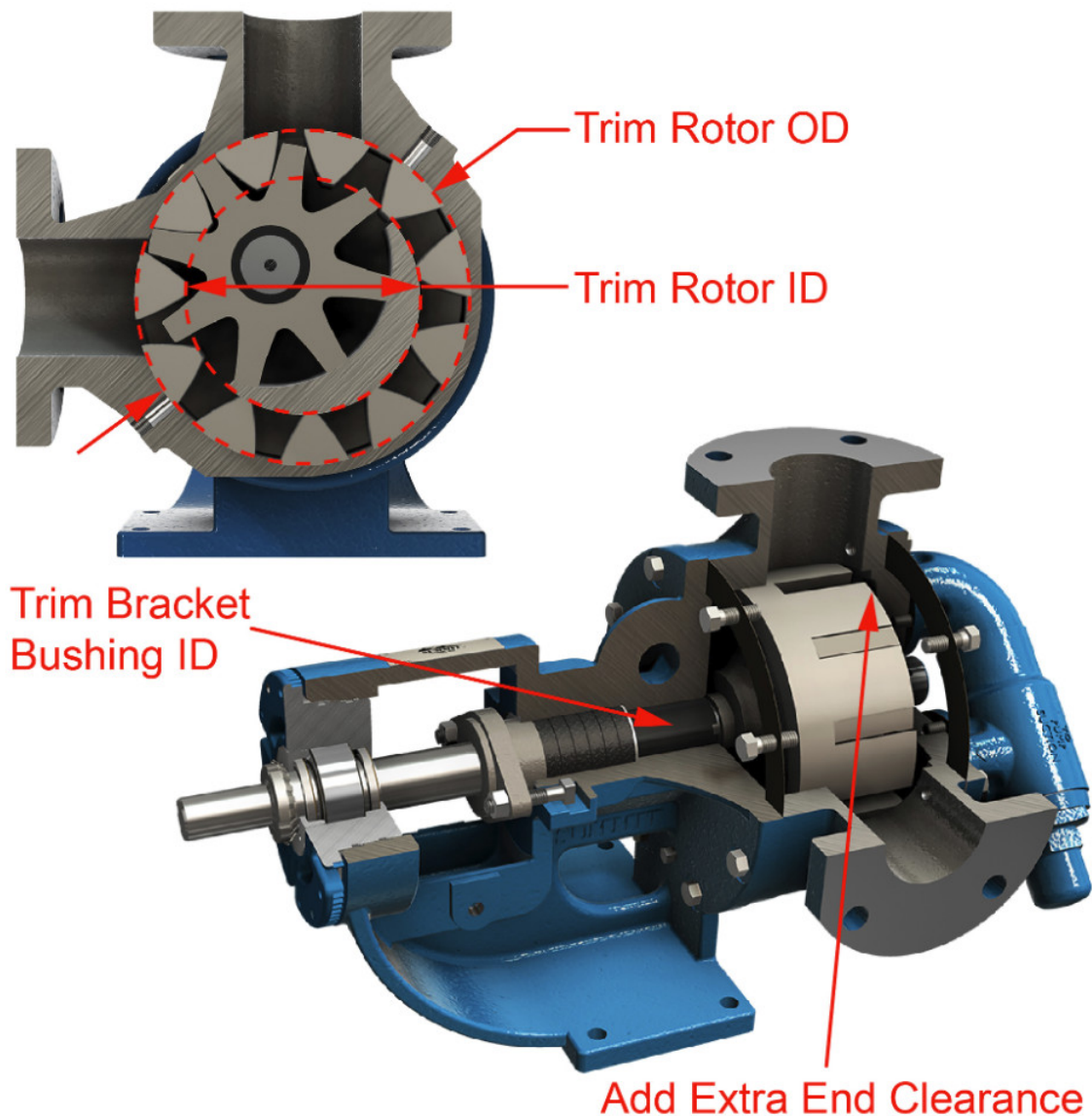
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Did you know that when using an internal gear pump in applications above 225 degrees Fahrenheit or viscosities above 750 SSU, the pump may need extra clearances to operate properly? These extra clearances are applied to the rotor's outer diameter, rotor's inner diameter, the end clearance and (if applicable) the shaft or bracket bushing inner diameter.



In **high temperature** applications, the extra clearances are needed to allow for expansion of the materials. As a manufacturer, calculations for the clearances are controlled by material selections and are determined based upon a specific material combination within the pump. Changing the part's materials could change the amount of extra clearances needed for the pump.

High viscosity applications need the extra clearance to allow the fluid to pass through which keeps the pump from reaching its maximum allowable horsepower limit. If these clearances were not applied, excessive wear or failure of the pump would be premature.

This is just one reason why it is of the utmost importance to **collect the application's fluid and process properties** to keep your pump's life at a maximum.

[Click here to download our Application Data Sheets.](#)

SUMMIT™ PUMP, Inc **VV40 Extra Clearances**

Pump Model	Pump Size	Material of Construction (External Components)	Viscosity (SSU)	Temperature (°F)	Rotor Material				Idler		Bracket Bushing	Additional End Clearance
					Iron or Bronze		Stainless Steel, Steel, Monel, or Alloy 20		All Materials			
					I.D.	O.D.	I.D.	O.D.	I.D.	O.D.		
VV40	L LQ LL	C: Cast Iron E: Cast Iron - Steel Fitted	< 750	< 225	---	---	---	---	---	---	---	---
			---	226-300	---	---	---	---	---	---	---	0.003
			751-7500	301-450	0.015	0.005	---	---	---	---	0.002	0.005
			7501-75,000	451-575	0.015	0.010	---	---	---	---	0.002	0.008
			---	576-800	0.015	0.015	---	0.005	---	---	0.004	0.012
			75,001-2,000,000	---	---	---	0.010	---	---	0.004	0.015	---
VV40	L LQ LL	W: Steel Y: Steel - Steel Fitted D: Ductile Iron F: Ductile Iron - Steel Fitted	< 750	< 225	---	---	---	---	---	---	---	---
			---	226-450	---	---	---	---	---	---	0.002	0.005
			751-7500	451-575	---	---	---	---	---	---	0.002	0.008
			7501-75,000	576-800	---	0.005	---	0.005	---	---	0.004	0.015
			---	---	---	---	0.010	---	---	0.004	0.015	
			75,001-2,000,000	---	---	---	---	---	---	---	---	
VV40	LQ LL	S: 316 Stainless	< 7500	< 225	---	---	---	---	---	---	---	---
			---	226-350	---	---	---	---	---	---	0.002	0.005
			7501-75,000	351-500	---	---	---	0.005	---	---	0.002	0.010
			---	---	---	---	---	0.005	---	---	0.002	0.010
			75,001-2,000,000	---	---	---	0.010	---	---	0.004	0.015	

Click here for the [VV40](#) and [VV95](#) extra clearance documents.

-The Summit Pump Team

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Jim Elsey's Pumps and Systems Articles

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"providing quality pumping products in a timely manner, at a fair market price."



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