



# TECH BULLETIN

**073**  
10/95

*Published regarding engineering changes and improvements*

**SUBJECT: Hi-Temp HPS - 2SF, 3PFR, 5CP, 5PFR and 7PFR**

CAT PUMPS offers a number of Hi-Temp Pump Models. Each of these models uses a specially formulated Hi-Pressure Seal referred to as STG. These seals are a two part construction of a PTFE blend with a stainless steel backing for added strength and support at high temperatures.

**During servicing of these seals, the two pieces can separate.** It is important to watch for this during removal to be certain the stainless steel support is removed from the manifold before the new STG seal is installed. If accidentally left in the manifold, it will create an added load and result in premature wear to the seals or damage to other components. **Note:** This two piece construction is also used on the standard 2SF Hi-Pressure Seal and the same caution is recommended. **Note:** The 2SF Hi-Temp pumps use a special Hi-Temp nylon inlet valve with the STG Hi-Temp Hi-Pressure Seals.

The following are the special "Hi-Temp" Hi-Pressure Seals and the complete Seal Kit for each model:

Frame Size	Pump Model	Seal P.N.	Seal Kit P.N.
3 Frame	233.3000, 231.3000	46652	33915
	243.3000, 241.3000	46652	33915
	273.3000, 271.3000	46652	33915
5 Frame	313.3000, 311.3000	46667	33623
	343.3000, 341.3000	46667	33623
	353.3000, 351.3000	46667	33623
	45.3000	46287	31629
	5CP2120W.3	46667	31638
	5CP3120.3	46287	31665
7 Frame	55.3000	46287	31610
	57.3000	48300	N/A
Direct-Drive	All 2SF Models (add .3 at end of standard P.N.)	46652	33953

Each Hi-Temp unit is shipped with a special Hi-Temp instruction sheet to caution the operator that a minimum of **30 PSI inlet pressure** is essential with high temperatures to minimize cavitation. Maximum temperature of the pumped liquid is **190°F**.

Refer to Typical Reservoir Tank in your pump service manual and see Technical Bulletin 002 for additional information.

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