



Manufacturers and Designers of Performance Power Steering Systems and Components

IMPORTANT ALUMINUM PUMP INSTRUCTIONS

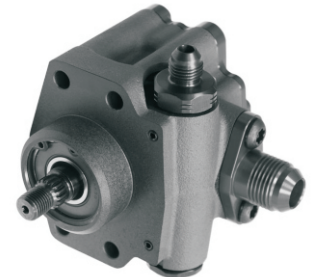
PLEASE READ THIS SHEET BEFORE INSTALLATION

- Determine pump RPM prior to installing this pump: divide crank pulley diameter by the power steering pump pulley diameter and multiply by maximum engine rpm. (Example: 4.5" cp ÷ 6" psp = 0.75 x 7,200 = 5,400 rpm pump speed.) **Maximum recommended aluminum pump speed is 9,000 rpm.** Higher pump RPM consumes more horsepower. The steering pump provides maximum assist at 1,500 rpm. Keep in mind, pit speed of the pump must be in the 1,000-1,500 rpm range.
- KRC offers V-Belt water pump drive pulley kits to reduce pump speed and serpentine pump kits to conserve horsepower. Call your dealer or our tech line for information.
- **Make sure the hole in the -10 tank fitting is 1/2" inside diameter.** Some non-KRC tanks have 3/8" holes that restrict flow into the pump and damage or destroy the pump. **The -10 inlet hose must have a vacuum rating of 28 inches or higher or it can collapse starving the pump for fluid.**
- Torque on the pump pulley nut is 46 ft lbs.
- There are two 80mm diagonal bolt patterns to index inlet and outlet fittings.

If you have problems once the pump has been installed, do not return it to your dealer. All pumps must come back to the factory for replacement or repair. The end user must call 770-422-5135 for a RGA number for all returns.

TIPS TO EXTEND THE LIFE OF YOUR NEW PUMP

- 1) Never start your engine without fluid in the reservoir tank. One minute without fluid can permanently damage the pump.
- 2) Route all hoses and reservoir tanks away from headers to keep from adding heat to the system and burning the fluid.
- 3) We recommend KRC Power Steering Fluid (PSF 10032000) or equivalent.
- 4) Fluid level in the tank must be two or more inches higher than the top of the pump.
- 5) When assembling new hoses, clean them with a rifle bore brush, then flush them out with hot water and air dry before use. Most problems with power steering systems are due to contamination from new hoses, or other steering components, which in turn damages the pump. Always place caps on pumps, steering gears and hoses when system is open to the air.
- 6) Do not install any filters or coolers on the -10 side of the reservoir. Install them on the return side if they are needed.



ALUMINUM PUMP FLOW FITTINGS

Aluminum Fitting Part Number	Aluminum Pump Flow	ID Mark
KRC 25300 407	SET OF 4	--
KRC 25300 912	SET OF 4	--
KRC 25304 000	1.05 GPM	4
KRC 25305 000	1.32 GPM	5
KRC 25306 000	1.58 GPM	6
KRC 25307 000	1.84 GPM	7
KRC 25308 000	2.11 GPM	NONE
KRC 25309 000	2.37 GPM	B
KRC 25310 000	2.64 GPM	C
KRC 25311 000	2.90 GPM	D
KRC 25312 000	3.17 GPM	E

KRC offers the only pump with changeable flow controlling fittings. KRC pumps are shipped with the standard flow control fitting that will give excellent feel and assist in 90% of all applications. The standard -6 flow fitting has no identification mark on the hex. All optional flow fittings have an identifying mark stamped on the hex, and they will allow you to change the feel in your steering (see chart to left). The more flow your steering system receives the easier it will be to turn the wheels. If you increase the flow too much, the road feel in the steering will go away at higher speeds. Higher flow fittings are required when using steering quickeners or 3.4 inch per revolution, or faster, rack & pinions on short tracks with tight turns. Lower flow fittings are required to put feel and stability back in the steering on tracks with long straightaways. Cars on super speedways can use number 4 through 7 fittings, while 1/4 mile track open wheel modifieds with 2 to 1 steering quickeners could try B through E fittings. When selecting a flow control valve for a race track only car, the driver should use the valve that feels best at race speeds. On street driven race cars, you must consider finding a happy medium between the ease of parking and highway speed stability. Optional flow control valves are available individually or in sets of 4 from KRC or your local dealer. In high vibration applications you may want to use a steel flow fitting. To order a steel flow fitting change the 3 in the part number to a 4.

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