

Ryan Hydraulics PTO Hydraulic Pumps

Brief Introduction:

This product is suitable for the rear output shaft drive of the tractor and is used to supply oil to other hydraulic actuators.

- Stable performance
- Compact structure
- Great efficiency
- Fitted Body
- Adapt to multiple machines
- Quality Assurance



Specifications:

Model	Flow (GPM)	Max. Pressure(PSI)	Speed (RPM)	Inlet	Outlet	Shaft
	7.4	2250	540	1-5/16-12UN-2B	1-1/1-12UN-2B	
	11		540			
	11.9		540			
	13.7		1000	1-5/16-12UN-2B	1-8/5-12UN-2B	
	16.6		540	1-5/16-12UN-2B	1-1/1-12UN-2B	
	17		540			
	21.2		540			
	22		1000	1-5/16-12UN-2B	1-8/5-12UN-2B	
	39.3		1000			
	40		1000			

Installation Bolt: 2 x 3/8-16UNF-2B

Instructions for using

Working Method

It is recommended to use No. 36 or No. 46 anti-wear hydraulic oil, or other non-foaming oil with good oxidation resistance, corrosion resistance and lubricating performance. Please ensure the cleanliness and

Working Temperature

The oil temperature range is -20°C to 80°C; the ambient temperature must not be lower than -10°C; avoid low temperature starting.

Installation & Use

When installs the pump need to pay attention to the rotation and inlet/outlet port, Reverse rotation of gear pump is strictly prohibited. The product must be kept fixed and not used under shaking.

When the product is assembled to the system for the first time, it should continue to inject oil and exhaust into the pump, and stop after the oil infiltrates the entire system to prevent the phenomenon of cavitation.

When the pump is running for the first time, check whether the product has any abnormal phenomena such as leakage, excessive heating, noise, etc. If any abnormality occurs, please shut down the equipment immediately and contact the sales company.

Product Warranty

Product warranty for this pump is 1 year. Problems caused by personal disassembly are not covered by the warranty and the product warranty terms are suspended.

Analysis and Solutions of Common Use Problems

Problems	Possible Causes	Exclusion Method
The gear pump does not deliver oil and cannot build enough pressure	1. Wrong oilport/rotation	1. Use according to the rotation, check inlet/outlet tube.
	2. Pump cannot rotate	2. Check whether there is foreign body stuck.
	3. The viscosity is too high/low	3. Change propriate oil, cold ambient please warm up.
	4. Oil level is too low	4. Add the oil until the oil level passes the suction part.
	5. Internal structure wear out	5. Change/fix internal parts.
	6. Oil circuit leaking/not smooth	6. Check whether exists leakage or filter is stuck.
Abnormal vibration and noise	1. Filter stuck	1. Check and clean the filter.
	2. Rotation speed is too high	2. Lower the speed to adequate range.
	3. Air exists in the tube	3. Check whether the oil level is too low.
	4. Oil impurities too much	4. Clean and change the hydraulic oil.
Abnormal heat	1. Oil quality is too bad	1. Select the oil according to the requirement.
	2. Large oil sucking resistance	2. Reduce the resistance, enlarge the diameter.
	3. large circuit loss	3. Reduce the angle of oil turning
	4. High ambient temperature	4. Add the heat resistance method.
	5. High system pressure	5. Limit/reduce the working pressure
Oil leakage	1. Seal damaged	1. Change the seal.
	2. Tube connector loosed	2. Tighten the connector, please notice the torque.

