



**PATTERSON PUMP COMPANY / A Gorman-Rupp Co.**  
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[www.pattersonpumps.com](http://www.pattersonpumps.com)

## General Pump Inspection and Maintenance Schedule End Suction Pumps

**Excludes motors, engines, gear drives, VFD's, and controls.**

Actions required only for specific pump types are so noted.

The symbol (■) used in the table below indicates that the action indicated may not be applicable to a specific pump of a particular type. For more information regarding inspection and maintenance requirements refer to the Patterson O & M manual supplied with the pump. Contact Patterson Pump Company if assistance is needed to determine the inspection and service requirements for a specific pump.

Inspect (✓) or service (●) at the indicated calendar time or run time interval – whichever comes first	Routinely	Monthly	2000 hours or 3 months	4000 hours or 6 months	8000 hours or 12 months
Unusual noise	✓				
Unusual vibration	✓				
Unusual temperature	✓				
Leaks in pump or piping	✓				
Pressure gauge readings	✓				
Visual inspection of equipment general condition	✓				
Anytime a pump is opened, inspect the running clearances and restore them to original specifications if the running clearances have doubled (adjust ring clearances if so supplied or install new wear rings)	✓ ●				
Anytime a pump is opened, inspect the impeller for corrosion or excessive wear.	✓ ●				
Packing box – verify slight leakage (if excessive, adjust gland or seal water valve; replace packing if required) ■	✓ ●				
Mechanical seal (should be no leakage) ■	✓				
Drain lines are working properly ■	✓				
Coupling integrity ( Inspect Material and Inserts)■	✓				
Operate the pump		✓			
Tightness of foundation and hold-down bolts			✓		
Check coupling alignment and integrity ( torque Set Screws - 30 in-lbs (maintain records) ■			✓		
Add grease to pump anti-friction bearings (maintain records) ■			●		
Add grease to coupling (maintain records) ■			●		
Replace packing (all packing; not just the outermost ring) ■				●	
Clean and oil gland bolts (packed pumps) ■				●	
Verify free movement of packing glands (packed pumps)■				✓	
Clean packing box					●
Check and flush seal water and drain piping					●
Perform a comparative field test (flow, pressures, and power) with calibrated instruments. Restore internal running clearances if results are unsatisfactory (install new wear rings).					✓ ●
Perform a comparative vibration test					✓
Remove packing and inspect sleeve(s). Replace if worn. (packed pumps) ■					✓ ●
Realign coupled pumps (maintain records) ■					●