



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

## General Pump Inspection and Maintenance Schedule Pump Types F and NCS

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

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) ■	✓				
Flush System lines and Drain lines are working properly ■	✓				
Coupling and coupling guard integrity ■	✓				
Drive shaft integrity ■	✓				
Verify proper operation of automatic grease lubricator (if pump so equipped) ■		✓			
Operate the pump		✓			
Tightness of foundation and hold-down bolts			✓		
Check coupling alignment and integrity (maintain records) ■			✓		
Add grease to pump anti-friction bearings (maintain records) ■	(REFER TO MANUAL)				
Add grease to universal joint shafting u-joint bearings, anti-friction steady bearings (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) ■				✓	
Universal joint shafting and steady bearings wear check (replace bearings if required) ■				✓ ●	
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) ■					●
Remove pump handhole covers and inspect impeller for corrosion and excessive wear ■					✓
Remove handhole covers to inspect the wear ring clearances. When the wear ring clearances have doubled, adjust the ring clearances to original specifications if so supplied or install new wear rings. ■					✓ ●