



MX-400 Panel Sensor

End-suction centrifugal pump · mechanical seal

Category **Pumps**

Model **RP-120**

The RP-120 is a close-coupled end-suction pump for clean and lightly-laden water duties. This guide sets out the scheduled maintenance, the seal and bearing procedures and the spare parts that keep it running reliably.

WARNING

Isolate and lock off before work

Electrically isolate and lock off the motor, then close and drain the suction and discharge before opening the pump. Rotating machinery and residual pressure both injure.

MAINTENANCE SCHEDULE

INTERVAL	TASK	NOTES
Weekly	Check for leaks, noise and vibration	Log seal drip rate
Monthly	Check coupling alignment and guard	Re-shim if > 0.1 mm
6 months	Inspect mechanical seal faces	Replace if scored or weeping
12 months	Re-grease / replace bearings	SKF 6206-2RS, both ends
24 months	Overhaul: seal, bearings, wear ring	Use the RP-120-OH kit

MECHANICAL SEAL REPLACEMENT

1. Isolate, lock off and drain the pump; relieve any suction head.
2. Remove the coupling guard and back pull-out assembly.
3. Withdraw the impeller and the rotating seal face from the shaft.
4. Press the new stationary seat into the seal housing squarely.
5. Fit the new rotating face, refit the impeller and set the shaft float.
6. Re-align the coupling to within 0.1 mm before refitting the guard.

SPARE PARTS

PART	ORDER CODE	INTERVAL
Mechanical seal	RP-120-SEAL	12 months
Bearing set (2)	RP-120-BRG	12–24 months
Wear ring	RP-120-WR	24 months
Casing gasket	RP-120-GKT	Every reassembly
Overhaul kit	RP-120-OH	24 months

RETURN-TO-SERVICE CHECKS

- ☐ No leak at the seal after 15 minutes running
- ☐ Coupling alignment within 0.1 mm
- ☐ Bearing temperature stable below 70 °C
- ☐ Suction and discharge pressures at duty point
- ☐ Vibration below 4.5 mm/s RMS