

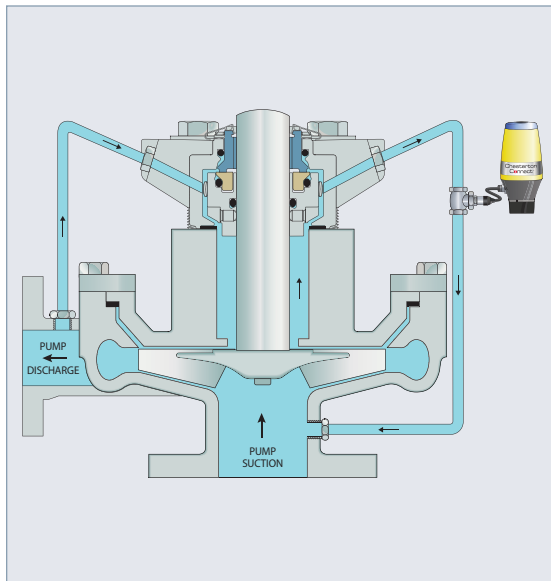
# PLAN 14

## Suction and Discharge Recirculation

**What** A combination of Plans 11 and 13. Recirculation from pump discharge through an orifice to the seal while also supplying a suction recirculation from the chamber through an orifice to pump suction.

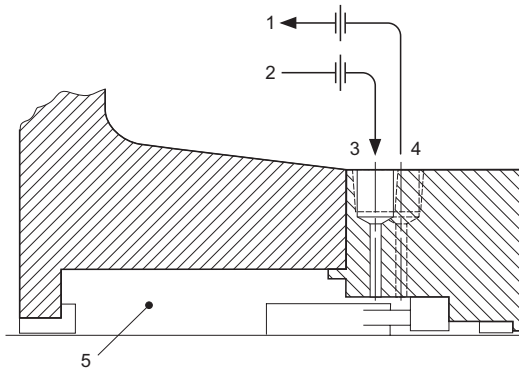
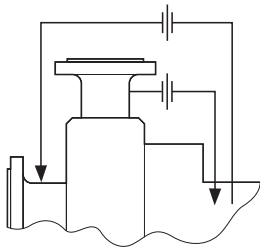
**Why** To promote flow through the seal chamber for cooling while also venting the seal chamber and lowering pressure.

**When** Hot applications operating at high pressures; most commonly found in vertical applications.



**KEY**

- 1 — To Pump Suction
- 2 — From Pump Discharge
- 3 — Flush Inlet (FI)
- 4 — Flush Outlet (FO)
- 5 — Seal Chamber



*Drawing reproduced from ANSI/API Standard 682, Third Edition, September 2004, courtesy of the American Petroleum Institute.*