

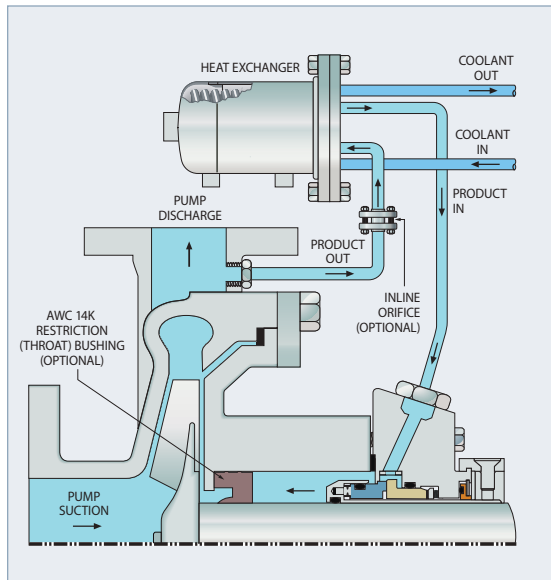
PLAN 21

Cooled Discharge Recirculation

What Discharge recirculation through an orifice and a heat exchanger to the flush port of the seal. A temperature indicator can be installed when specified.

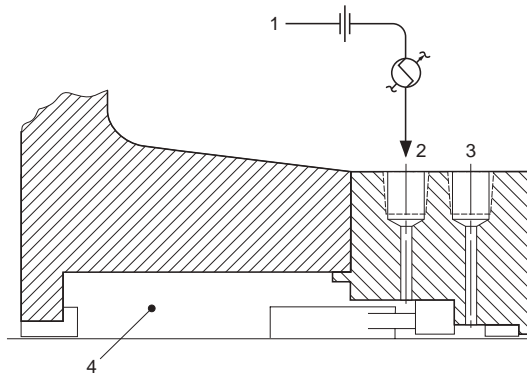
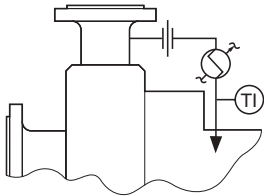
Why To raise the pressure in the seal chamber to limit flashing at the seal faces; to lower the temperature at the seal faces by using cooled product to remove heat from the seal faces.

When Use with clean fluids. High-velocity solids may cause seal abrasion and score the seal faces if directed by the flush port.



KEY

- 1 — From Pump Discharge
- 2 — Flush (F)
- 3 — Quench/Drain (Q/D)
- 4 — Seal Chamber
- TI — Temperature Indicator



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