

Packing Cases

The packing case is critical to the efficient operation of the piston rod packing and the sealing of the cylinder.

PRODUCT DESCRIPTION

CPI, part of the Howden group, designs and manufactures a full line of compressor packing cases, intermediate partition packing cases and wiper cases for reciprocating compressor piston rod sealing systems. All packing cases and wiper cases are precision machined from cast iron, steel, stainless steel, or bronze and each design can be easily reconditioned when needed to maximize service life.

CPI Packing cases are available in cooled or non-cooled designs for use in both oil-free and lubricated applications to satisfy the full range of temperatures, pressures, and corrosive conditions. CPI vent and purge designed packing cases meet environmental requirements and regulations for fugitive emissions of toxic or hazardous gases.



PACKING CASES

FEATURES

The CPI packing case has several important features that help to maximize your compressor's performance:

- Cylinder-end gasket to prevent process gas from bypassing the packing rings
- Precision-machined mating and sealing surfaces to prevent leakage
- Passages for lubrication, vent, coolant and buffer gas as required
- Flange with adequate bolting to maintain gasket seating and seal between cups at operating pressure
- Recess in each cup to contain the free floating packing rings

NON-COOLED CASES

CPI's non-cooled case design covers a broad range of operating conditions and is available for lubricated and non lubricated applications.

COOLED CASES

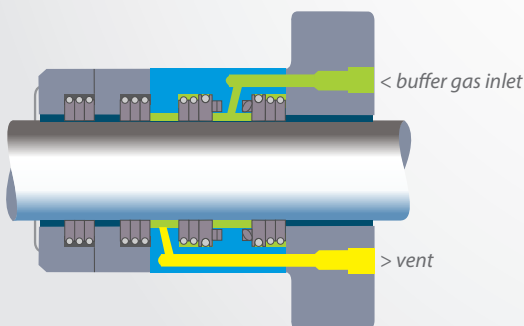
CPI's annular coolant passage design maximizes the amount of heat transferred from the packing rings. The cooling capability is optimized with either parallel or series flow pattern arrangements, depending on the specific application.

PACKING CASE PURGE CONVERSION

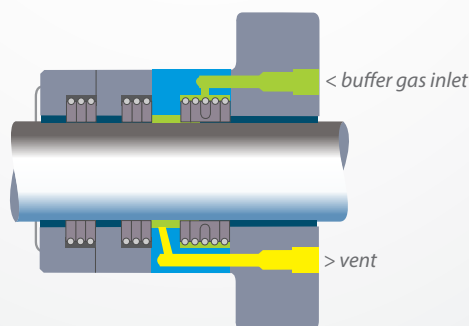
A purge gas system prevents the process gas from escaping through the packing case by introducing an inert buffer gas into the case. This provides compliance with emissions regulations and allows monitoring of the packing ring condition and life.

CPI can convert an existing packing case to a purge design. The standard purge design employs a two groove T-cup, but if the length of the assembly is limited a single groove cup arrangement is used.

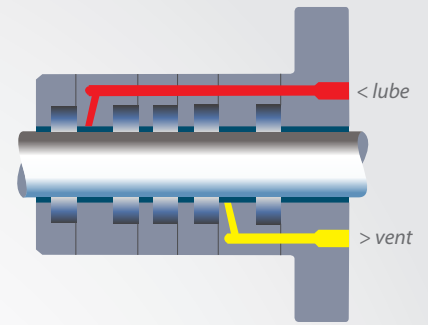
T-cup with side loaded packing



Single groove cup with wedge type packing

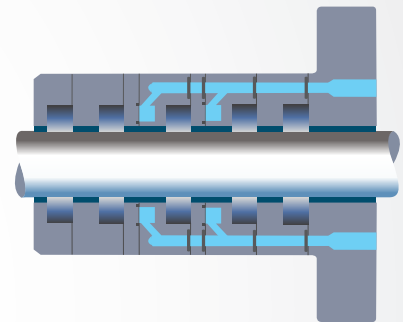


CPI standard non-cooled design: .



CPI offers two standard cooled designs: .

Plate and O-ring design allows passages to be cleaned out during case reconditioning.



Pressed cup design meets API standards for all pressures.

