

Flush Line Accessories

Sight Flow Indicator with
Sediment Filter or
Cyclone Separator

Installation and
operating instructions

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SEDIMENT FILTER AND SIGHT FLOW INDICATOR

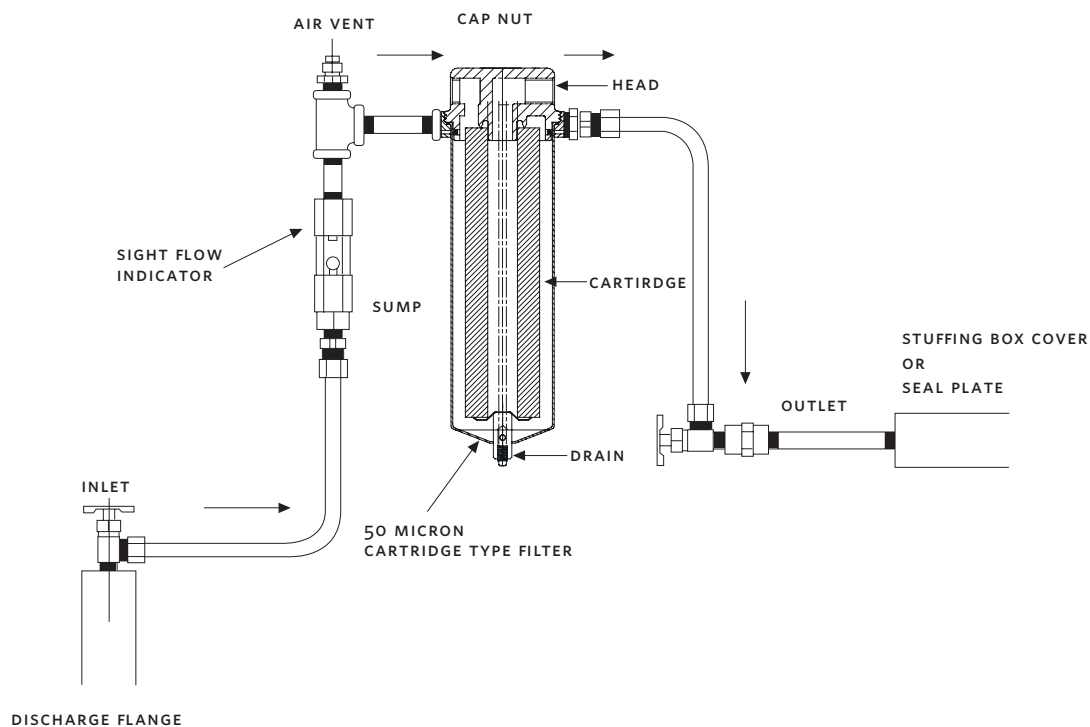
The Sediment filter and sight flow indicator are seal environmental accessories, factory installed on the flush line. The Sediment filter removes abrasives from the flushing liquid to extend the life of the mechanical seal.

Principle of operation

Liquid piped from the pump discharge enters a 50-micron sediment filter (after passing through the air vent) and has

abrasive particles filtered out of it through a removable and changeable filter. The clean liquid is then piped through the outlet to the gland plate for flushing of the seal.

NOTE: The filter is to be periodically checked and replaced. Sight flow indicator should also be periodically checked for fluid flow. Components are shipped loose for GEN 5 4380 and 4372 Close Coupled pumps and are to be assembled at site based on below typical piping arrangement.



FILTER CARTRIDGE REPLACEMENT

- A** Close off inlet and outlet filter lines. Loosen filter head to relieve pressure in filter body.
- B** Remove drain plug and drain filter.
- C** Remove filter body by unscrewing filter head – do not drop or lose head o-ring.
- D Cartridge replacement only:** Pull old cartridge out of filter body and clean out body. Replace head o-ring if damaged or deteriorated.
- E** Install new cartridge by positioning it over the center boss. Reassemble the body and head. Do not over-tighten drain plug.
- F** Slowly open inlet valve to fill filter and check for leaks. If filter leaks, shut off inlet valve, loosen cap nut to relieve pressure, then tighten cap nut.
- G** Recheck for leaks. Then open inlet and outlet valves fully. Filter is now in operation.

NOTE: Operator must ensure, while the pump is operating, the ball in the sight flow indicator is moving freely. When the ball moves very little, or not at all, the filter cartridge requires changing. Failure to do so could result in mechanical seal damage.

Filter cartridge: Part No. 975000-303

Filter head o-ring: Part No. 975000-305

CYCLONE SEPARATOR AND SIGHT FLOW INDICATOR

The cyclone separator and sight flow indicator are seal environmental accessories, factory installed on the flush line. The separator removes abrasives from the flushing liquid to extend the life of the mechanical seal. This arrangement is maintenance free. A differential pressure of 30 psig or greater across the pump is required for suitable separator operation.

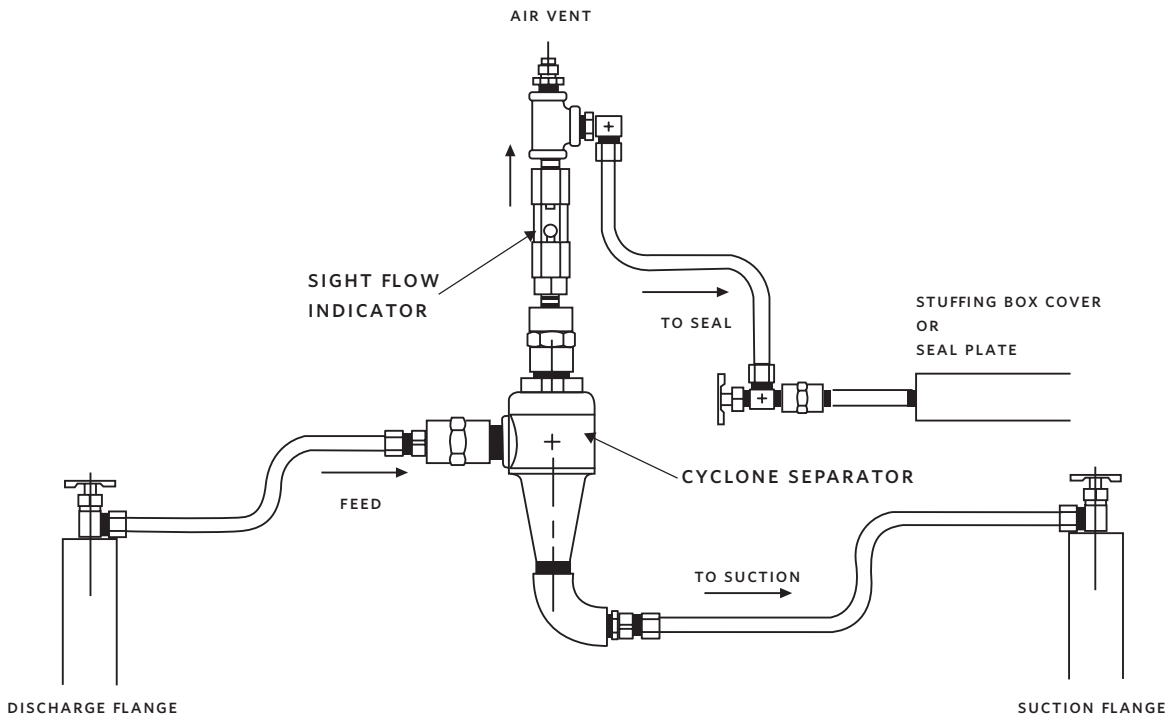
Principle of operation

Liquid piped from the pump discharge enters the separator feed connection and is rotated inside the cone shaped bore at a velocity dependent on the pressure differential. The particles in the liquid, being of greater density than the liquid remain close to the tapered wall of the cone and course downward to the discharge outlet at the bottom of the separator. From there

they are piped with a small amount of liquid to the suction flange. The clean liquid rises through the outlet at the top of the separator and is then piped to the gland plate for flushing of the seal.

NOTE: No maintenance is required, however the sight flow indicator should be checked periodically for fluid flow. Components are shipped loose for Gen 5 4380 and 4372 Close Coupled pumps and are to be assembled at site based on below typical piping arrangement.

TYPICAL PIPING ARRANGEMENT



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