

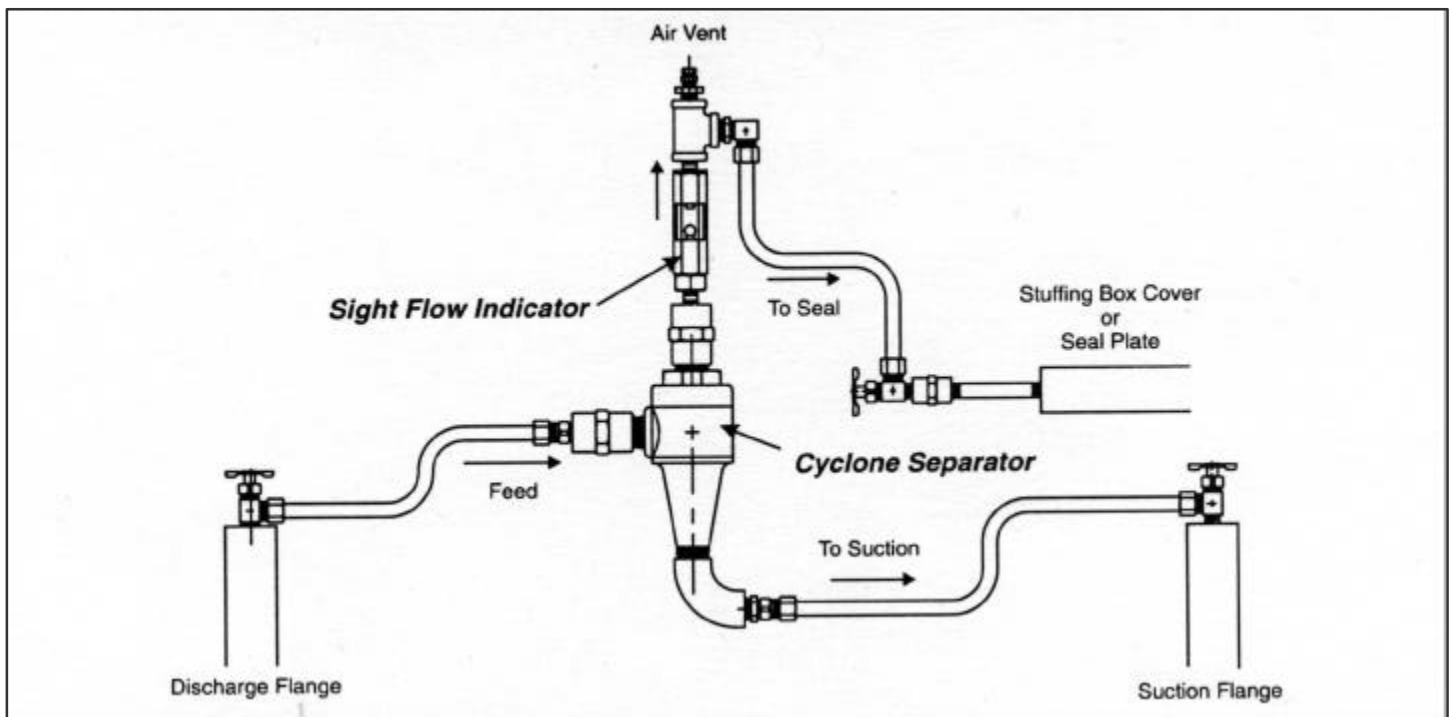
ARMSTRONG® Cyclone Separator

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INSTALLATION AND PIPING INSTRUCTIONS

Cyclone Separator and Sight Flow Indicator

The cyclone separator and sight flow indicator are seal environmental accessories, factory installed on the flushline. 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.



Typical Piping Arrangement

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 dependant 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 up 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.

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