Springer Pumps, LLC

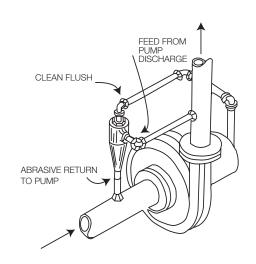
Toll Free: 866-777-6060 Int'l: 484-949-2900 Fax: 866-777-6383 www.springerpumps.com

ABRASIVE SEPARATORS

SPLLC 's abrasive separators provide a simple y et extremely effective method of k eeping dirt and other abrasives from the sealing faces - a method that can increase seal or pac king life many times over to greatly reduce replacement and maintenance costs. Connected to the discharge side of the pump, the separator takes the abrasive-laden fluid and removes foreign bodies completely. The clean fluid is then injected into the gland housing over the seal faces. This is particularly important in plant start ups where foreign particles are invariably present in the liquid. It also permits the taking of service water from streams, rivers, lakes, and other sources containing abrasives without the usual wear to seals or packings.

Operation

Principle: Liquid piped from the pump discharge enters the feed tap and is rotated inside the cone shaped bore at a velocity dependent on the pressure differential. The particles in the liquids being of greater densities remain close to the tapered wall of the cone and are forced downward to the discharge outlet at the bottom of separator. From there, the yare piped with a small amount of liquid to a lower pressure point in the system. No liquid is lost. The clean liquid rises up through the outlet at the top of the separator and is then piped to the housing for flushing the seal faces or lanter nigland if packings are used.



Conditions

- Minimum pressure diff erential of 20 psi should be maintained betw een f eed and overflow.
- 2. Specific gravity of the particles being separated must be greater than the liquid.
- 3. Centrifugal separ ators are only eff ective with inherent abr asives such as sand, small par ticles of iron o xide, scaly substances, or other natural debris. In contrast, chromates and an y substances that are dissolved in the liquid cannot be remo ved by a centrifugal separator.

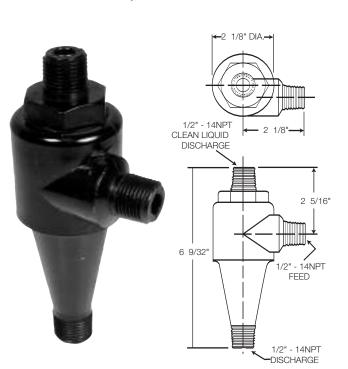
KY-3SS

Material: 316SS

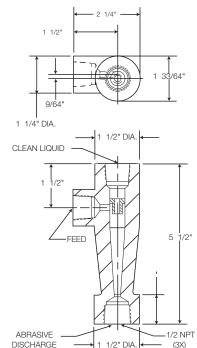
Temperature Range: -20°F to +400°F

Pressures up to 2000 PSI

KY-1Material: Nylon
Temperature Range: 0°F to +240°F
Pressures up to 650 PSI









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