

Moyno® Sanitary High Pressure Pumps



Discover the Value Choice in Sanitary High Pressure Pumping!

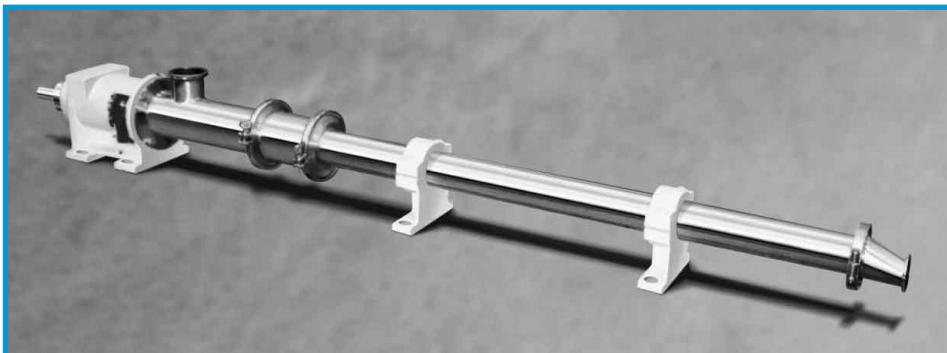
The Moyno® Sanitary High Pressure Pump sets the standard for high pressure pumping with an extended performance envelope capable of addressing challenging system requirements. It is modeled after the Moyno® 2000 series pumps, respectively the heaviest duty PC pump available in the market. The rugged, field-proven design of the 2000 series provides the characteristics necessary to handle high flow rates, at high pressure, with high viscosity products. The Moyno Sanitary High Pressure Pump meets 3A and BISSC standards, and features available CIP capabilities for easy cleaning.

The pump is based on the highly unique progressing cavity (PC) principle. It consists of a single helical rotor rotating in a double threaded helix of the stator. As the rotor turns in the stator, it goes through an eccentric motion, thus creating cavities that progress to the discharge end. The interference compression fit between

the rotor and the elastomeric stator creates a positive seal line that is helical in nature. The positive seal line minimizes slip while the helical nature of the seal line produces a continuous, augered style of flow. There are no pulses due to the shifting of pistons or the opening and closing of seal lines under pressure as seen in piston pumps, lobe pumps, or vane pumps. Thus the progressing cavity principle produces a highly metered, pulsation-less flow which is ideal for aseptic holding tubes and extrusion processes.

As pressure requirements increase, the inherent flexible geometry of the pump allows it to be designed with multiple stages to meet varying application requirements. The Moyno pump can provide up to 9 seal lines between discharge pressure and suction pressure. Due to the restrictions of their geometry, a lobe pump can only provide one. These multiple seal lines allow the Moyno pump to gently build high discharge pressures with minimal slip and no emulsification of the product. The low shear pumping action and large cavity size maintain high product integrity in handling particulates in two-phase fluids such as soups and stews.

- *Meets 3A and BISSC standards*
- *Low shear*
- *Low total cost of ownership*
- *Easy to maintain*
- *Pressures to 600 PSI*
- *Flow rates to 225 GPM*
- *Single pump handles multi-pump applications*
- *CIP design available*



Moyno Sanitary High Pressure Pump Advantages

- High pressure at extremely low shear
- Excellent particulate handling
- Pulsation-less metered flow
- High abrasion resistance
- Seal is not exposed to high pressure
- High suction lift capabilities
- Pumps entrained air and gases

Flexibility

The optimized progressing cavity design of the Moyno Sanitary High Pressure Pump gives it the ability to handle a wide range of fluids – everything from thin water-like liquids to viscous emulsions over 1 million cps. With the addition of the Moyno® AugMentor Pump Stuffer, products can be handled with viscosities up to 10 million cps.

Another major benefit of the Moyno progressing cavity pump is its ability to provide long service life in pumping highly abrasive materials. The elastomeric stator flexes instead of abrading when abrasive particles are impinged upon its surface.

Simplicity

The pump consists of a single drive train with a simple mechanical seal, which is located on the suction side of the pump. Since the stuffing box is isolated from the discharge pressure, this seal never sees the abuse of the high-pressure environment so no complicated, balanced seal arrangements are required.

The pump does not require a separate stuffing pump to force feed product into it as needed with triplex piston pumps. No complex automation programming is required in comparison to running multiple PD pumps in series. The pump's low profile arrangement allows it to be mounted directly under mix tanks, thereby eliminating a second feed pump or dump station to get product into the unit. Pulsation dampers are not required due to the pump's pulse-less flow.

The Moyno Sanitary High Pressure Pump is also designed for simple and easy routine maintenance. No high-tech training is required to service the unit. The single drive train is easily disassembled through pinned connections.

The Moyno Sanitary High Pressure Pump is the Innovative Solution to Your Critical, High Pressure Requirements. Call Us, Today!



Always the Right Solution™

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