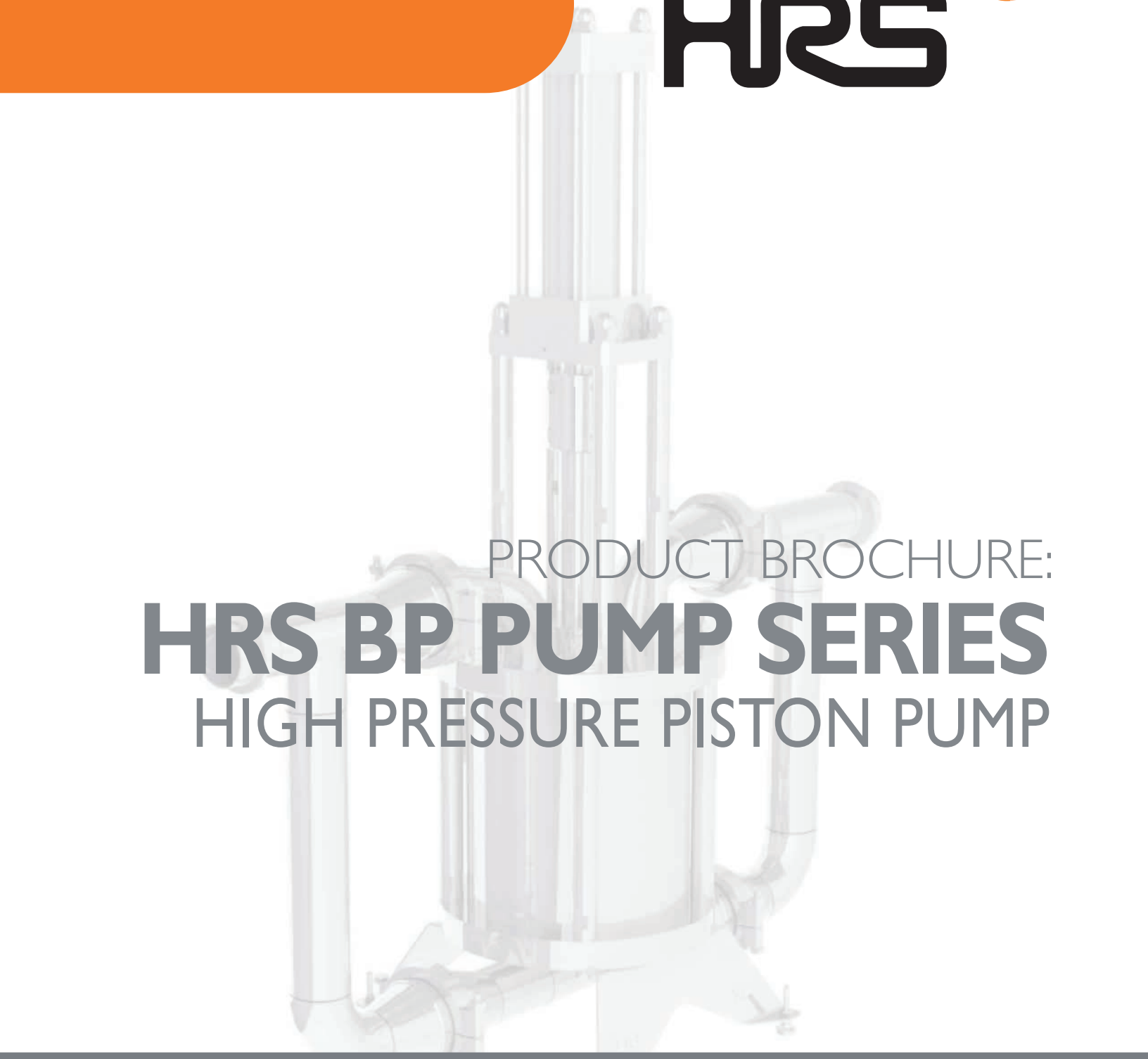


PRODUCT BROCHURE:

HRS BP PUMP SERIES

HIGH PRESSURE PISTON PUMP

HIGH PRESSURE PISTON PUMPS

Sanitary pumps are manufactured to ensure that they are safe for the **food processing and pharmaceutical industries**. Essentially, they are designed in a way that prevents contamination of the product pumped and ensures it is **safe for human consumption.** The materials of a sanitary pump, such as stainless steel, avert contamination and cannot absorb the pumped fluid. All surfaces of the pump must be smooth to eliminate the chance of harboring bacteria.

Experience of working with difficult heat transfer solutions in the food industry has proven that pumping products **without destroying their integrity** is as important as developing heat exchange solutions.

This led to the development of the HRS BP Series Piston Pump, a reciprocating positive displacement pump, which can handle very delicate and viscous food products.

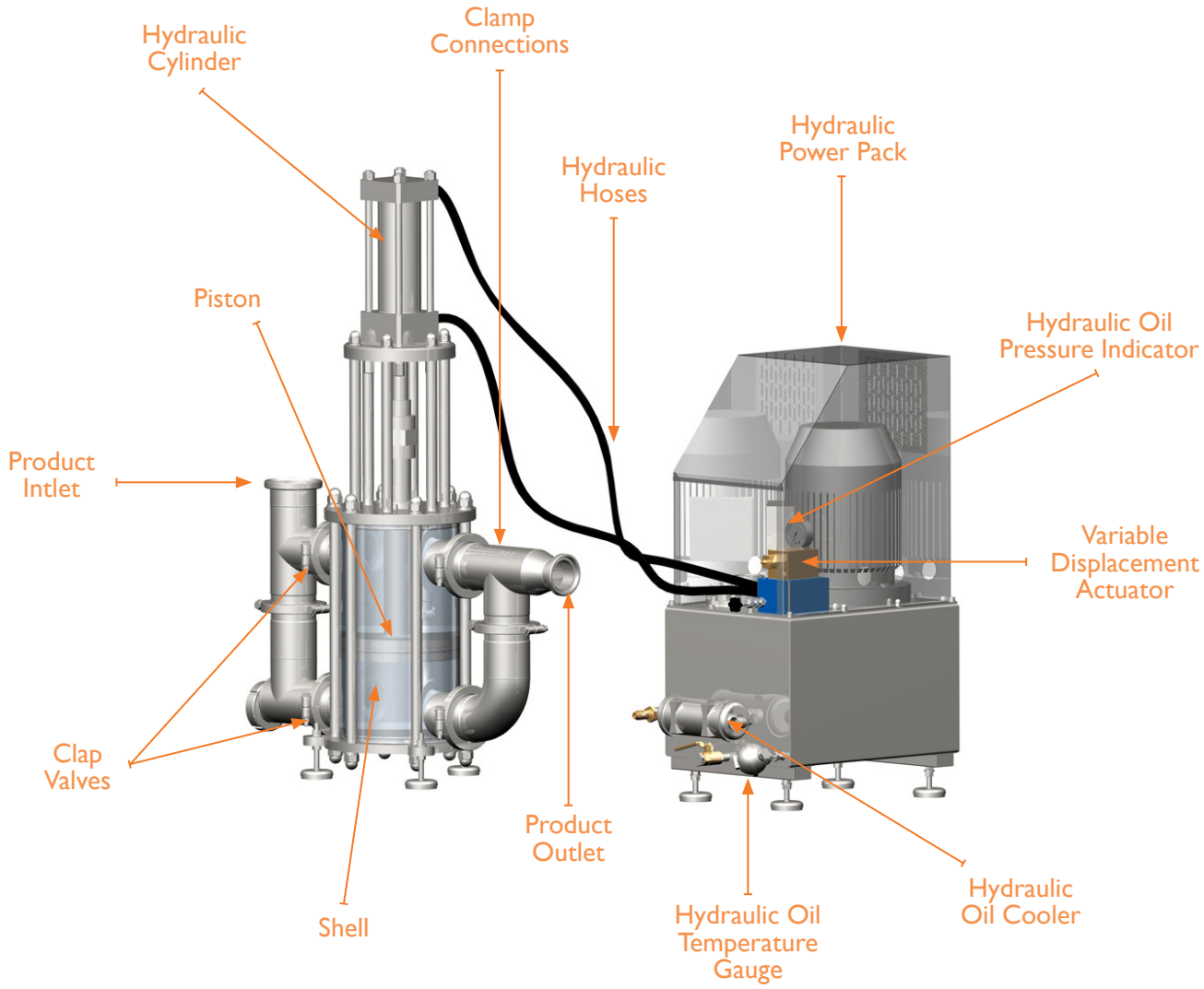
Benefit of the HRS BP Series include:

- Consistent product identity
- Gentle product treatment
- High flow rates (up to 88 gpm)
- High pressure (435 PSI)
- Can run dry*
- Minimal spare parts
- High temperatures (248°F)

**Can run dry for a short periods only*

HIGH PRESSURE PISTON PUMPS

FEATURES



BP Series pumps are driven by a hydraulic power pack which drives a cylinder in alternate directions, moving the piston up and down.

The pump housing is split into two chambers, each with an inlet and outlet connection allowing the entry and exit of large particles. It has an adjustable flow, which can range from a minimum of 0.88 gpm to a maximum of 88 gpm and features a high pressure drop of up to 435 PSI.

Clap valves allow pumping of whole fruits or vegetables, and an alternative piston pump with a pneumatic cylinder can be supplied for low pressure applications of less than 58 PSI.

HIGH PRESSURE PISTON PUMPS

MOBILE POSITIVE DISPLACEMENT PISTON PUMP

HRS BPM SERIES

The BPM Series is a mobile version of the standard BP Series pump. It is mounted on a mobile skid unit for easy movement, allowing it to be used across multiple production lines and locations, ideal for food manufacturers producing short runs of specialist products.

With the BPM Series, customers can enjoy the benefits of a BP Series pump without the need to invest in a dedicated pump per line, resulting in considerable capital savings.

POSITIVE DISPLACEMENT PISTON PUMP WITH SCREW CONVEYOR

HRS BPSC SERIES

The HRS BPSC Series is specifically designed for highly viscous materials such as pastes and particularly those which are produced and packed at low temperature.

The product's thickness can make it hard to prime the pump. To overcome this, the HRS BPSC uses a gravity-fed hopper, together with a screw conveyor, to feed product into the inlet of the pump. Once the suction side has been filled, the pump is primed and will operate as normal with a constant flow of product.

HORIZONTAL POSITIVE DISPLACEMENT PISTON PUMP

HRS BPH SERIES

The HRS BPH Series is a horizontal version of the BP Pump for use with products with larger sized particulates.

The pump is mounted horizontally and inlet is vertical. The standard clap valve is replaced with an automatic ball valve.

Also comes with the option of a feed hopper.

HIGH PRESSURE PISTON PUMPS

STANDARD SPECIFICATIONS

MATERIALS:

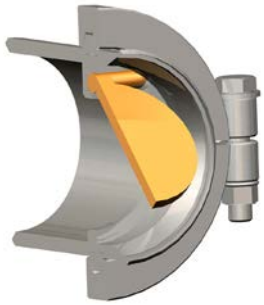
Product Wetted Parts:	AISI 316L Stainless Steel

CONNECTIONS:

Service Side:	Clamp
Product Side:	Clamp

SURFACE FINISH:

External:	Polished
Internal:	<0.8µ



Clap valves allow pumping of whole fruits or vegetables

APPLICATIONS

- Convenience Food
- Protein
- Bakery and Confectionery
- Dairy
- Beverages
- Fruits and Vegetables
- Pharmaceutical
- Personal Care

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