

Real cases

"I am changing the stators of my positive displacement pump every 15 days"

"The lobular pump does not allow me to work with particulates"

"As a part of my quality program, I have to use X ray detection to avoid contamination of my product by rubbers"

"I suffer the consequences of daily cutting damage; I have to reformulate the products to reach consistency that the market demands."

"I would like to have a pumping system to be able to carry out the expectations of the Product Development Department".

"I want to transfer aseptic products with aseptic pumps without breaking particles."

"I would like to have a sterilisable pump".

"I would rather not have rubber detection systems".

"I cannot adjust my pump flowrate within the limits that I want, because the frequency variator does not allow it."

"I want a pneumatic pump of high pressure to feed my filter press".

"A membrane breakage involves a high cost in product loss".

"Abrasive products reduce my running times due to maintenance".





Current feeding requires handling very sensitive products without damage to their structure.

Chemical and Environmental Industry demands working with sludge to feed filter presses at high pressure and temperature.

Industry does not want contamination of processes.

The huge quantity of non Newtonian products in pumping processes reduces their kinematic viscosity and produces slippage in lobular pumps.

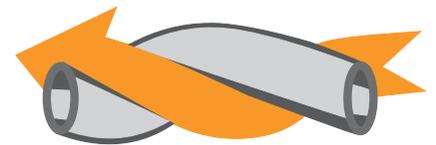
Industry wants equipment for continuous operation, with low consumption of spare parts.



Peristaltic, positive, lobular and double diaphragm pumps do not totally cover the necessary requirements of the market.

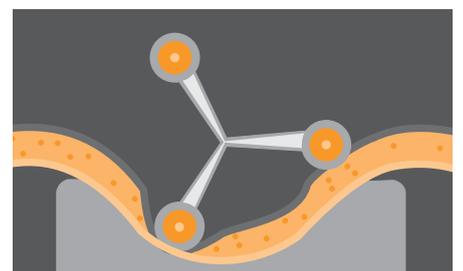
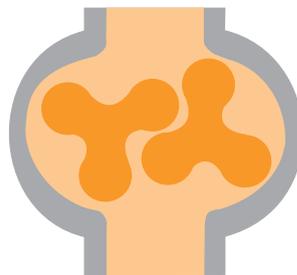
HRS offer their new design of hydraulic and pneumatic piston pumps, mounted horizontally or vertically, to meet these needs.

HRS
Hydraulic
Piston Pump



positive displacement

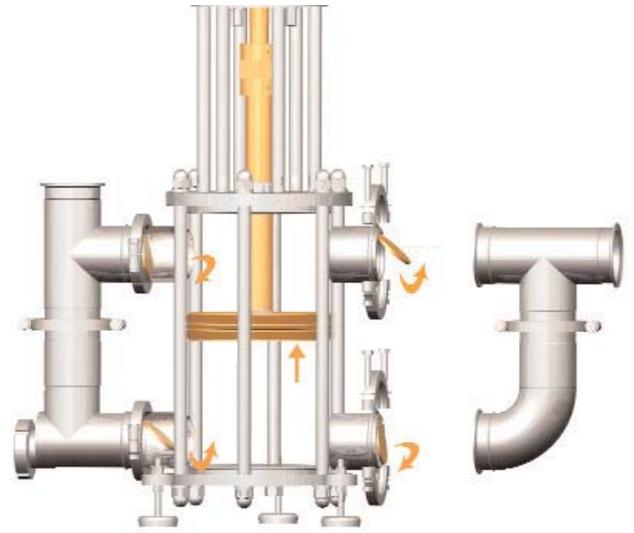
lobular



peristaltic



Functions

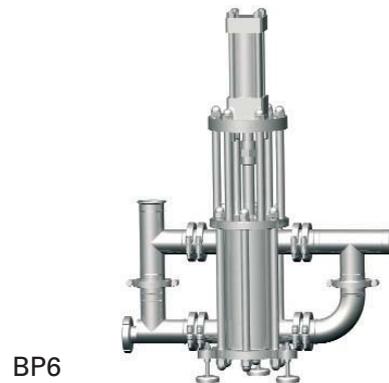


The HRS pumps can handle particulate products in the Food Industry without damaging their structure and they can deliver up to 30 bar pressure.

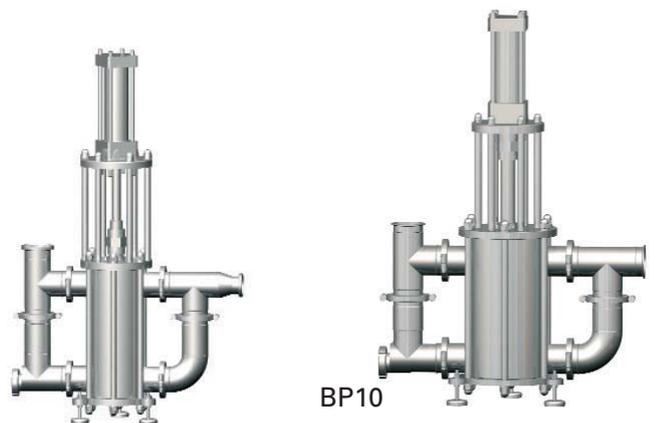
They can work with sewage sludge in specific designs up to 80 bar pressure.

They can be totally aseptically cleaned to work in ultra hygienic processes according to 3A and EHEDG rules.

The standard design is vertical for the BP6, BP8 and BP10 models. There is a horizontal model with large diameter actuated valves to work with products that have serious problems feeding into the body of the pump.



BP6



BP8

BP10

Mounting	Model	Flow (l/h)		Pressure (bar)	Diameter (mm)	Displacement (mm)	Weight (kg)*	Volume (l/cycle)	Manifold (mm)	Hydraulic Cylinder
		min	max							
Vertical	BP 6	100	3000	20	158	160	115.5	5,875	76.2 (3")	MDT 80/36 160
	BP 8	3000	9000	30	207	250	168	16,174	104 (4")	MDT 100/45 250
	BP 10	3000	12000	16	260	200	190	20,844	104 (4")	MDT 100/45 200
Horizontal	BP 6,8,10	Special design								

(*) Empty weight

○ Benefits

No rubber that contaminates the product

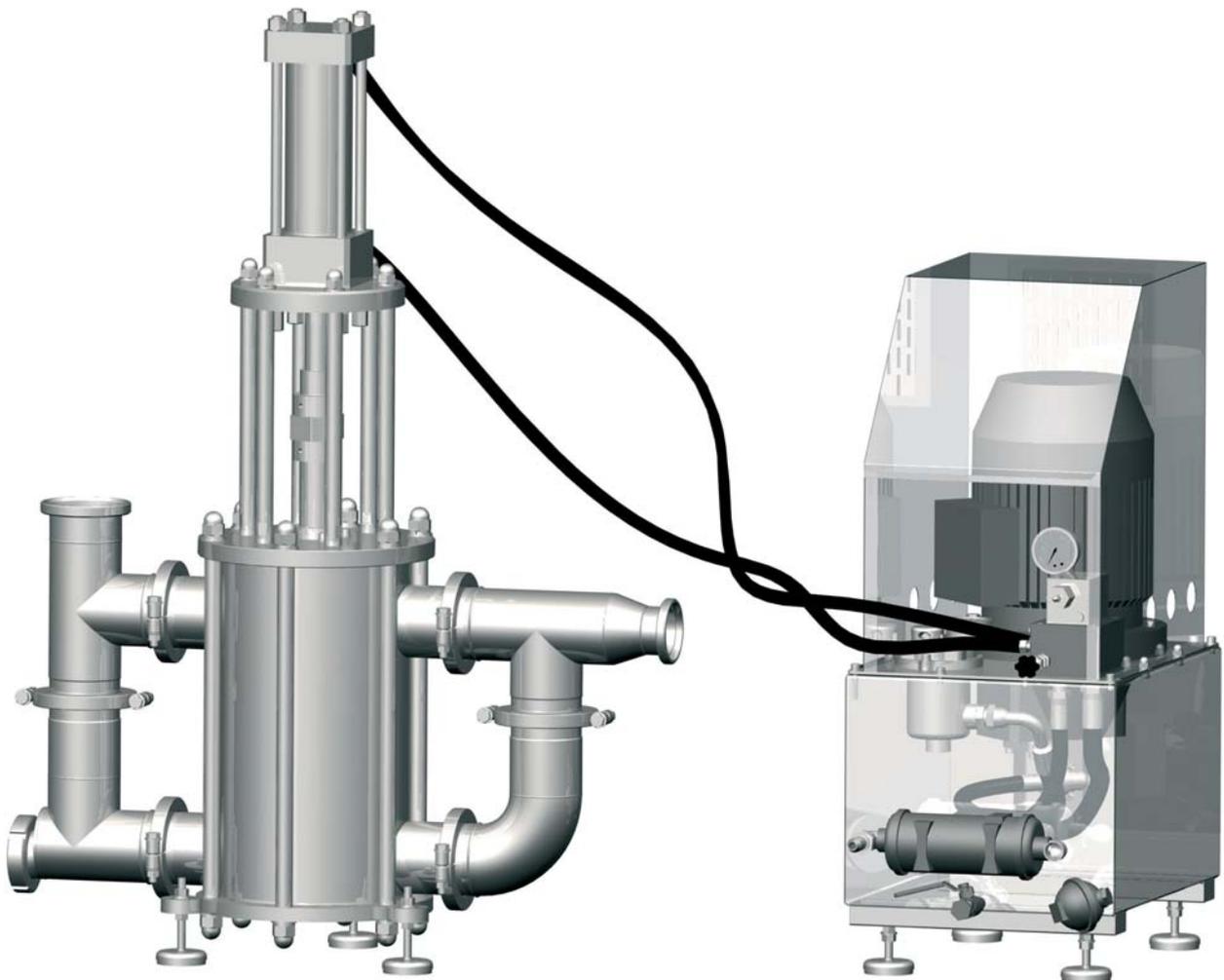
No slippage

High volume per stroke

Aseptic

Low shear

Maintains product integrity



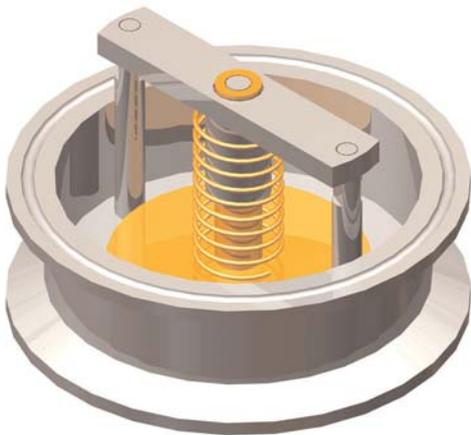
Valves

Valve choice depending on:

Product nature.

Working temperatures.

Working pressure.



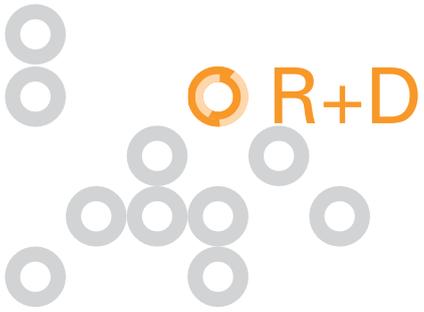
Disc valves with anti-return spring



Actuated ball valves



2" and 3" stainless steel flap valves



R+D
Research and
Development

HRS is continuously developing its pumps to improve their efficiency and increase the range of applications.





Applications involving



Protein Industry

Cooking / cooling viscera, cooking / cooling MDM (up to 32°F), cooking / cooling chicken pieces, cooking / cooling taco stuffing, frying minced beef / pork meat, cooling minced beef / pork meat, thermal treatment for blood, cooking / cooling fish paste, cooking / cooling pet food, heating minced fruits peel, cooling emulsified fat + water, concentration of meat wastes, concentration of viscera and sub products, concentration of waste and slurries, liquid ice (freezing slushy brine).



Bakery and Confectionery

Chocolate, pie fruit filling, glazed and bakery creams toppings, cream filling, sweets, peanut butter, syrups, gelatine, fruit preparations, marmalade / jelly, fudge, cookie slurry, nuts paste, liquid bread, yeast slurry, starch, jams and preserves, lard, butter and margarine.



Dairy

Cheese sauce, butter, margarine, non dairy products, yogurt with fruit, cheese creams and products, condensed milk, ice creams, milk skin, dairy desserts with or without particulate, rice pudding, flavoured puddings, custard, whey concentrate.

Beverages

Coffee extract, tea extract, sugar concentrate, iced beer, wine, slush-freezing orange juice, juice concentrate with pulp and fibres (mango, apple, cherry, strawberry, cranberry, grape fruit, tropical fruit), aseptic nectar filling, concentration of yeast extract, malt extract, wort.

Fruits and Vegetables

Juice concentrate with pulp and fibres, fruit mash, fruit purees, tomato products, fried vegetables (onions, garlic, etc), pickles relish.

Convenience Food

Scrambled eggs, baby food, tomato based products; ketchup, pizza sauce, pasta sauce (ragu), mayonnaise, fruit preparation, gravies, sauces, salad dressing, spreads, soup with or without particulate, flavouring concentrates, mashed potatoes, starch paste, mashed corn, fried beans, fats and oils.

Pharmaceutical

Ointment, lotions, emulsions, antibiotics, blood plasma, protein gelatine solutions and vitamin.

Personal care

Face masks, lotions, emulsions, gels, hand and body creams.

Environment

Chemical wastes concentration, animal manure, agricultural wastes, and petrochemical wastes.





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