

ROTARY LOBE
Classic



An Original Quality Product from
JOHNSON PUMP (UK)

IDEX
IDEX CORPORATION

A Subsidiary of Viking Pump Inc.
A Unit of IDEX Corporation

The Johnson Pump (UK) Classic Range

- Classic Rotary Lobe Pump Design
- Tri-lobe, Bi-lobe or Multi-lobe Rotor Forms
- Flush Rotor Retention
- Hygienic Flush Front Cover
- Low Shear and Good Solids Handling Capability
- Externally Mounted Shaft Seals
- Mechanical Seals, Multi-Lipseals or Packed Gland
- DIN 24 960 Seal Housings Available
- Able to Operate With Flow in Either Direction
- Standard 0.8 μm Ra Machine Finish
- Enhanced Surface Finishes Available

The Classic is a positive displacement rotary lobe pump designed and engineered to meet today's stringent demands for high product quality and reliability.

The Classic is a combination of traditional engineering and modern technology, with the latest techniques in computer aided design, test and inspection employed in its manufacture.

Ideally suited to both continuous and intermittent transfer or process applications, the Classic can pump in either direction, has a wide displacement range, positive self priming action and is capable of dry running with a suitable seal.

The pumps are produced with all AISI 316 product contact parts to a machined finish of 0.8 μm Ra. Enhanced, polished and electropolished finishes are also available.

PRODUCT SEALS

A common seal chamber accommodates most seal options providing easier product

seal conversions. All packed gland and lipseal arrangements incorporate a replaceable sleeve and offer a lower cost sealing option.

Mechanical seals are a cartridge type, giving improved operation and easier assembly, setting and maintenance.

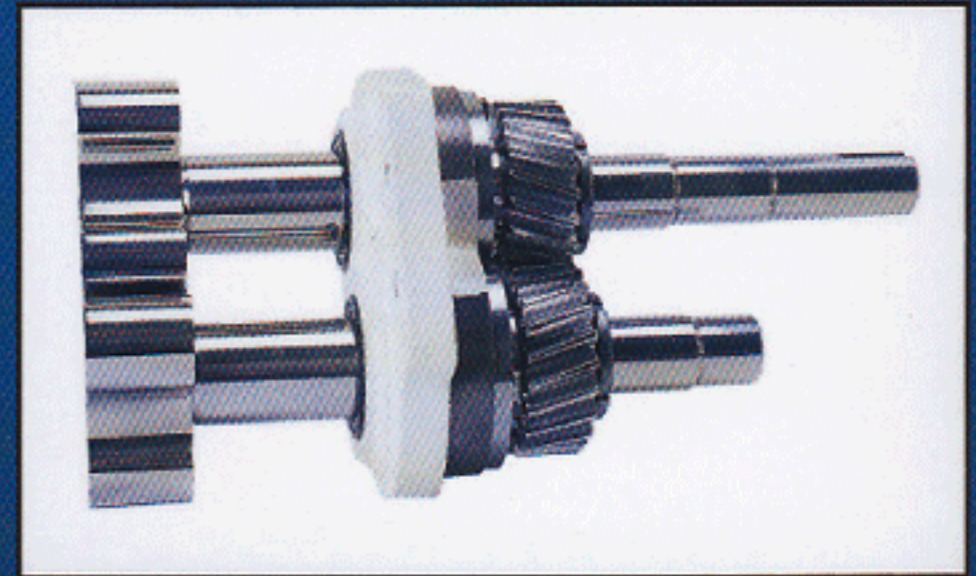
ROTOR RETENTION AND SPLINE SEALING

Rotor retainers are flush with the front face eliminating unswept recesses in the front cover. This, combined with sealed rotor splines, minimises product entrapment and provides an arrangement suitable for both CIP and SIP.

ROTOR PROFILES

The profile of the tri-lobe and multi-lobe rotors provides smooth, low pulse flow characteristics, reducing the effects of shear and agitation within the pump head. For improved solids handling, a bi-lobe rotor is also available. All rotor forms have been engineered to maximise displacement, whilst maintaining optimum efficiency.

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Classic Cartridge Assembly



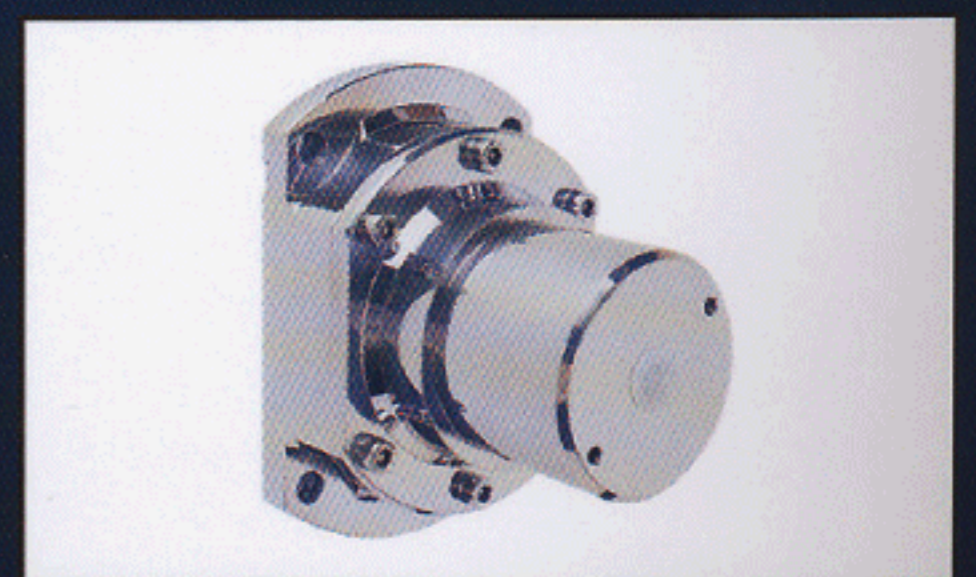
Classic Rotor Forms



Classic Seals



Wide range of connections



Relief Valve Assembly

GEARBOX CONSTRUCTION

The cast iron gear case provides a rugged housing for the shaft assemblies which is resistant to corrosive cleaning fluids. The design features a front loading cartridge assembly incorporating shafts, with associated bearings and timing gears, for ease of assembly and maintenance.

RELIEF VALVES

A range of integral spring and air loaded relief valves are available to protect the pump against pressure overload. The valves can have the option of manual or air-lift override for internal recirculation during CIP. Air actuated valves can be operated remotely.

CONNECTIONS

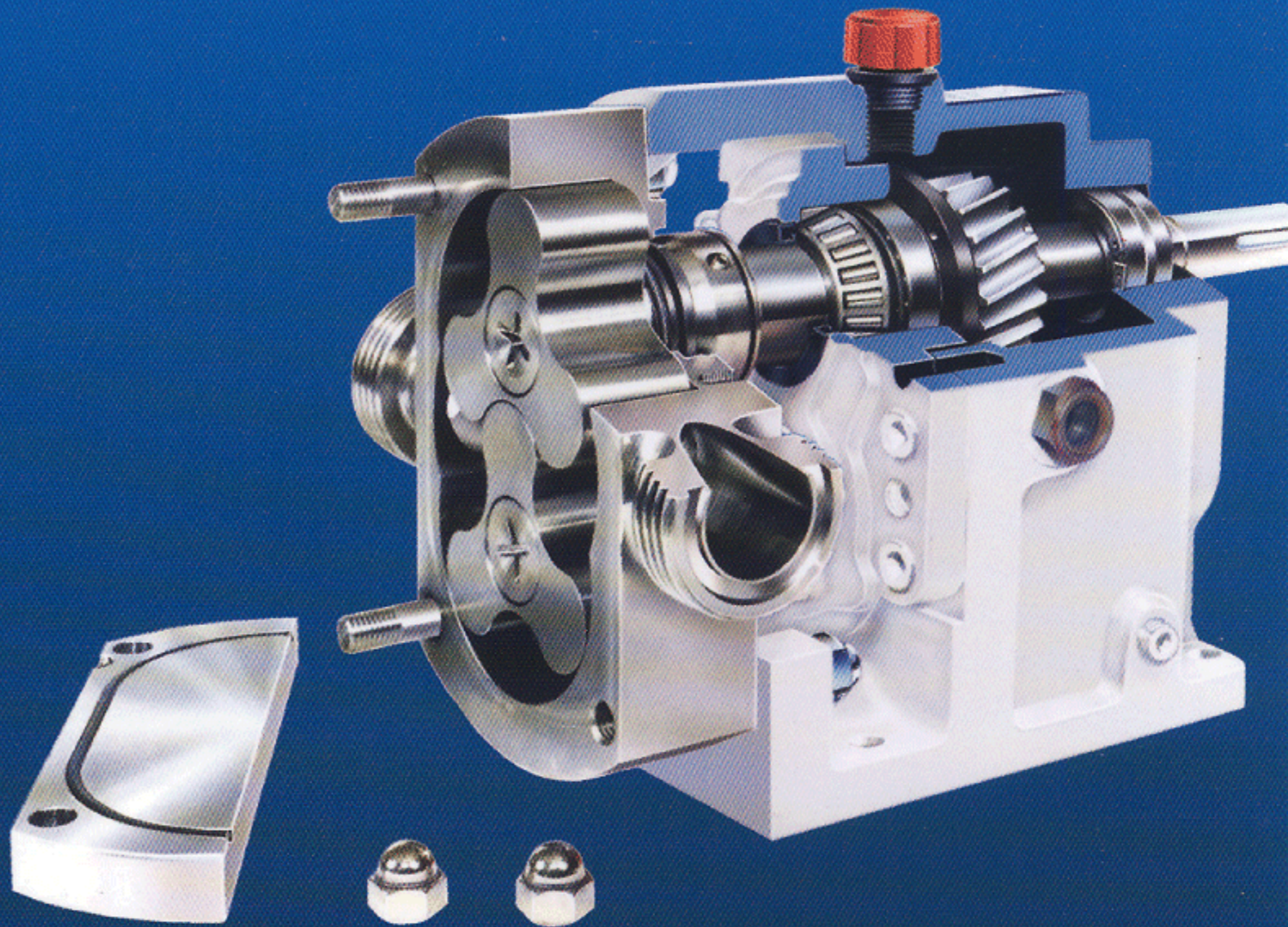
A number of port options are available to satisfy individual process and regulatory requirements. Enlarged ports can be supplied to aid the flow of viscous products into and out of the pump. The pumps can be side mounted to further assist flow and enhance the self draining capability.

JACKETING

The rotorcase and/or front cover can be jacketed for heating or cooling purposes when critical process conditions need to be controlled.

PRODUCT SEAL OPTIONS

Every Classic model can accommodate the full range of product seals, from simple lipseal and packed glands to



The Classic Blend of Quality, Performance and Value.

balanced single and double mechanical seals. The series 20, 30, 40 and 50 models can accommodate single internally mounted seals complying with DIN 24 960 and allow a range of proprietary seals to be fitted.

Standard mechanical seal face materials include Carbon, Silicon Carbide and Stainless Steel with other materials also available. Elastomers available include Nitrile, Viton[®], Ethylene Propylene, PTFE and Kalrez[®].

PACKED GLAND SEALS

Sleeve mounted packed glands offer a lower cost, effective, versatile seal suited to many applications.

SINGLE MECHANICAL SEALS

The standard single mechanical seal for the Classic range offers

good all round capability in terms of cleanliness, operating pressure, temperature and speed.

SINGLE & DOUBLE FLUSHED MECHANICAL SEALS

A low-pressure flush option enables the single seals to be used for products that are liable to crystallise, harden or vaporise on contact with the atmosphere. A high pressure double mechanical seal is available for use on high viscosity or hazardous liquids.

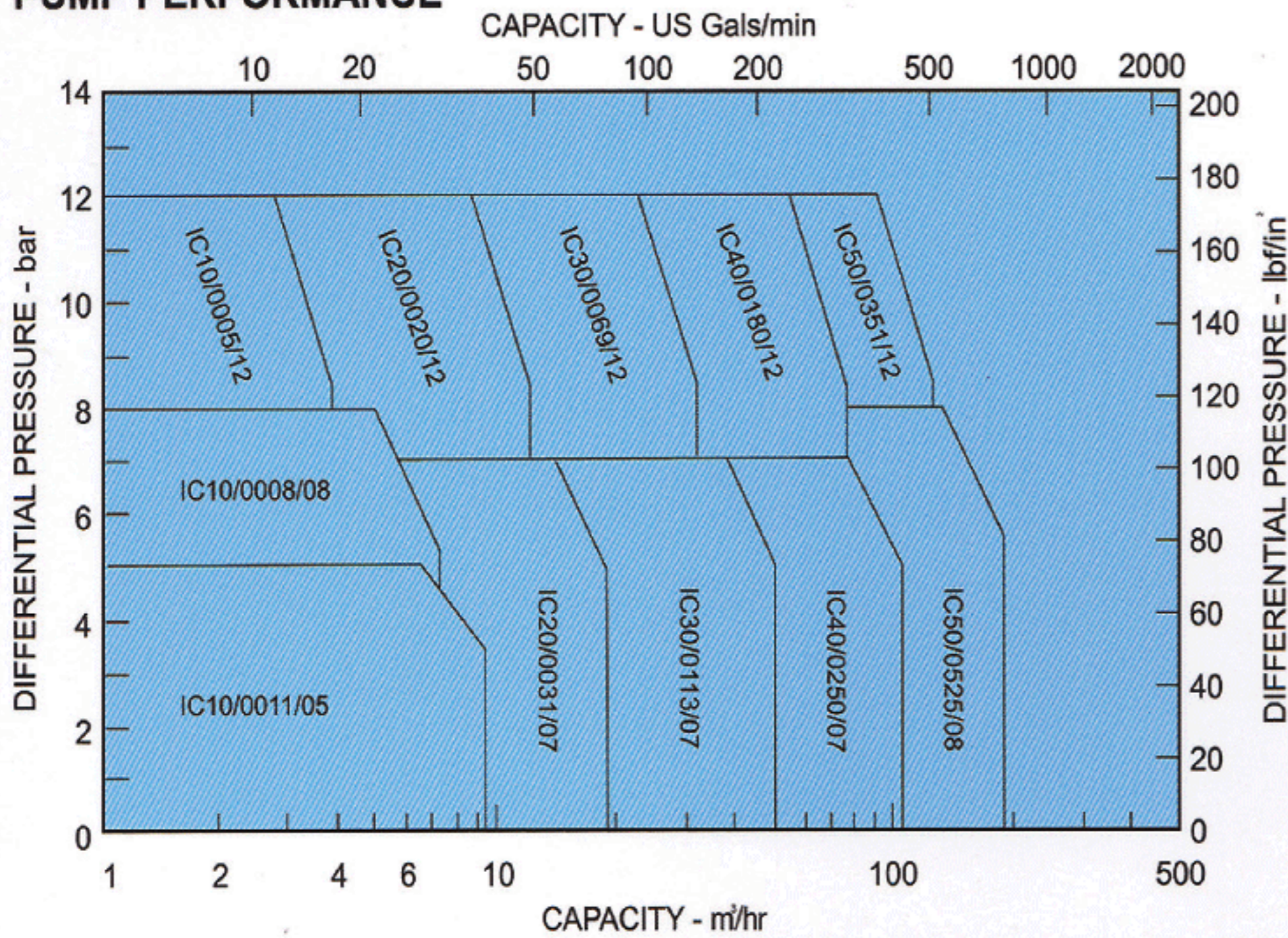
MULTI-LIPSEAL ARRANGEMENT

An alternative multi-lipseal arrangement is available for most applications Available in Viton[®] or PTFE the seals are mounted on a hardened shaft sleeve for maximum durability.

**Classic Pump, Engineered with
Modern Technology.**



PUMP PERFORMANCE



IC SERIES	CLASSIC MODEL	DISPLACEMENT		STANDARD CONNECTION SIZE (INTERNATIONAL STANDARDS)		DIFFERENTIAL PRESSURE (MAXIMUM)		MAXIMUM SPEED
		litres/rev	l gal/100 rev	mm	inches	bar	psi	
10	IC10/0005/12	0.046	1.01	25	1.0	12	175	1400
	IC10/0008/08	0.083	1.83	40	1.5	8	115	1400
	IC10/0011/05	0.111	2.44	40	1.5	5	70	1400
20	IC20/0020/12	0.202	4.44	40	1.5	12	175	1000
	IC20/0031/07	0.313	6.89	50	2.0	7	100	1000
30	IC30/0069/12	0.694	15.27	50	2.0	12	175	750
	IC30/0113/07	1.125	24.75	80	3.0	7	100	750
40	IC40/0180/12	1.800	39.60	80	3.0	12	175	700
	IC40/0250/07	2.500	55.00	100	4.0	7	100	700
50	IC50/0351/12	3.514	77.31	100	4.0	12	175	650
	IC50/0525/08	5.250	115.50	150	6.0	8	115	650



Typical Applications

Foodstuffs

Jams, Chocolate, Syrups, Sauces, Batters, Stews, Sausage Meats, Eggs, Fats, Gelatine, Soups etc.

Dairy Produce

Milk, Curdled Milk, Yoghurt, Whey, Cheese, Curd, Butter, Margarine, Oils, Creams etc.

Beverages

Beer, Wines, Alcohol, Syrups, Yeast, Wort, Spirits, Juices, Cordials, Minerals etc.

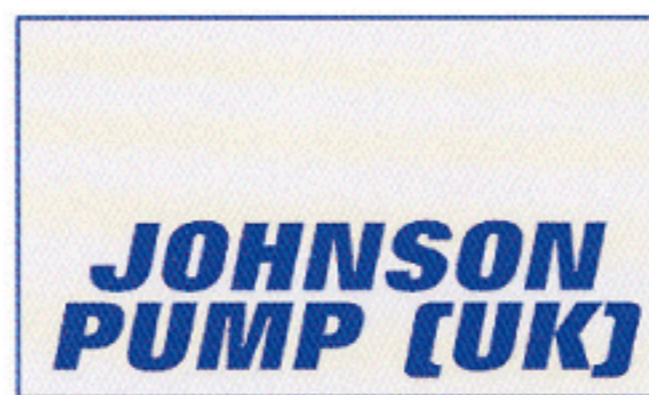
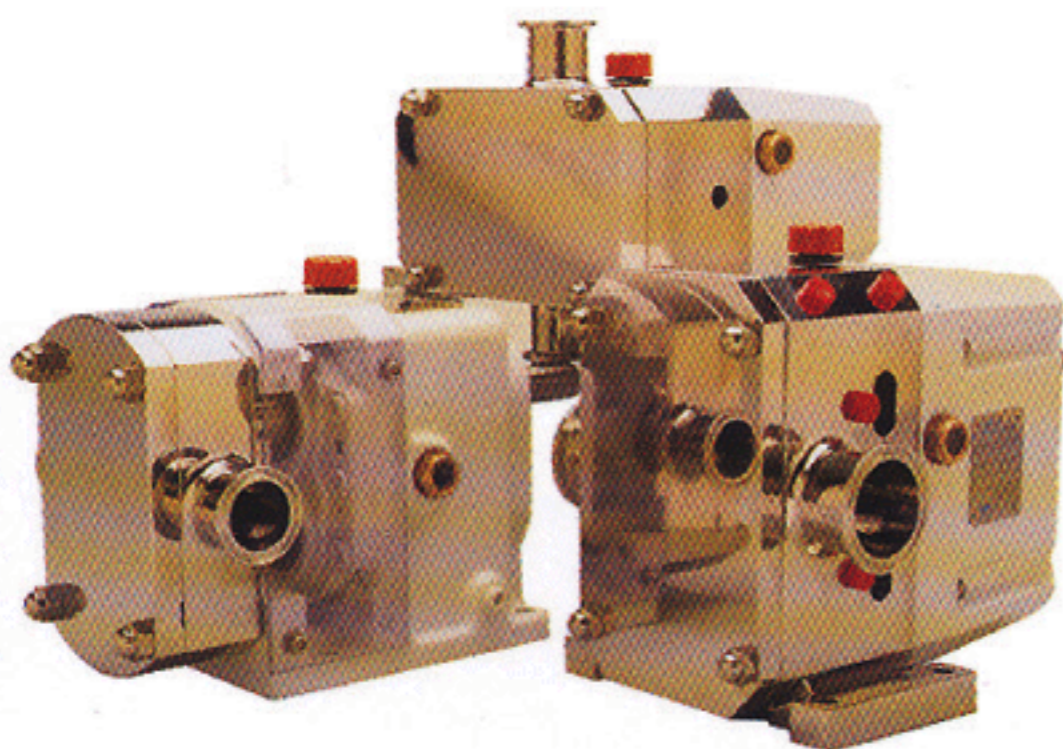
Paper & Chemicals

Acids, Alkalines, Soaps, Paints, Dyes, Lacquers, Resins, Lubricants, Solvents, Size, Black Liquors, Adhesives, Latex, Waxes, Coatings etc.

Pharmaceuticals

Creams, Gels, Serums, Disinfectants, Lotions, Shampoos, Perfumes, Soaps, Toothpaste, Vaccines, Antibiotics etc.

Manufacturers of the On-Line, Concept SQ and Albin SLP Pumps.



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