



Sanitary Range

For viscous products that flow

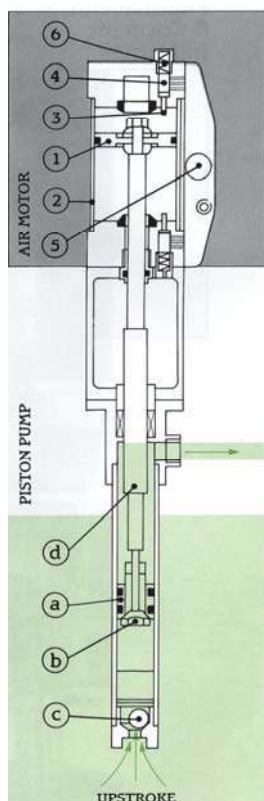
Kecol manufactures a range of Air Powered Piston Pumps to suit standard as well as non-standard Drums, Containers or IBC's. Maximum delivery output and pressure 45 L/Min. and 150 Bar.

Features & Benefits

- Variable Output and Pressure
- Pump can be stalled without damage
- Polished Sanitary models with 'Quick Strip' system
- 316 Stainless Steel contact parts
- Quick Release Coupling between Air Motor & Pump Tube

Typical Applications

Food	Pumping Honey, Sauces, Batter, Fruit Concentrates, Jams, Butter-Mix, Cheese & Onion Pie mix, Mayonnaise, Glucose, etc
Pharmaceutical & Cosmetics	Pumping medical adhesives, Suntan tan Lotion, Hair-Creams, Shampoo, etc



Air Motor Operation

As piston (1) moves upward in the cylinder (2) it strikes actuator pin (3) which operates pilot valve (4). The pilot valve then signals the main spool valve (5) which redirects the air supply to the top of cylinder, causing piston to move downwards.

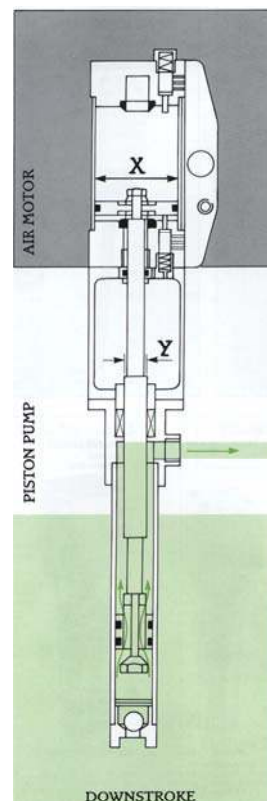
The actuator pin and pilot spool valve are repositioned by the spring (6) and pilot air to main spool is exhausted. As piston strikes lower actuator pin a similar sequence commences giving a reciprocating action.

Pump operation – Up stroke

As upstroke begins piston (a) seats on piston nut (b) and foot valve ball (c) is lifted from its seat by product passing into pump tube.

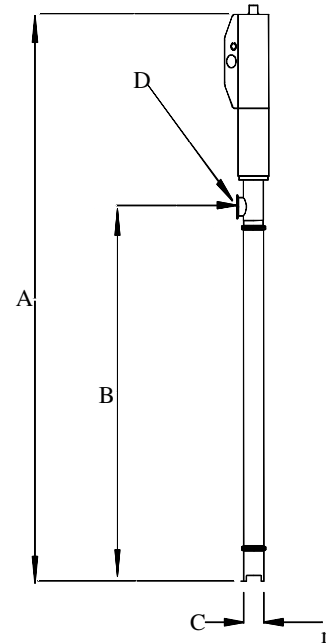
Pump operation – Down stroke

As the downstroke begins foot valve ball (c) seats and piston (a) is lifted clear of the piston nut (b) to allow product to pass to outlet. On the down stroke a volume of product is discharged by the additional volume of the packing rod (d) entering the pump tube. On the subsequent upstroke, half of the volume drawn in during the previous upstroke is discharged by the piston travelling upwards. Simultaneously product is drawn into the pump tube through foot valve for the next pumping cycle.



KECOL HYGENIC DRUM LENGTH PUMPS

Model	Tube Material	Seal Material	Ratio	Air Motor Size mm	Max Output L/Min	A	B	C	D	Air Inlet BSP(F)
H8050 STD TC	316 St. St	PTFE	5:1	80	20	1445	1010	50	1 1/2" Hygenic Clamp Fitting	1/2"
H10050 STD TC	316 St. St	PTFE	10:1	100	20	1520	1010	50	1 1/2" Hygenic Clamp Fitting	1/2"
H10075 STD TC	316 St. St	PTFE	4:1	100	45	1520	995	75	2" Hygenic Clamp Fitting	1/2"
H16075 STD TC	316 St. St	PTFE	10:1	160	45	1520	995	75	2" Hygenic Clamp Fitting	1/2"



Special Products & Accessories



Powerlift

Powerlift series 400

This air powered Lifting Device provides a safe method of raising and lowering Kecal drum pumps into and out of drums, process containers, IBC's, mixing vessels, etc. The Powerlift, which is powered both up and down, is available in either painted steel or polished stainless steel construction and control is via a simple lever operated valve mounted on the main column of the unit.



Powerprime

Powerprime series 500

Kecal's 'Powerprime' single pressure Priming system, used in conjunction with a Kecal Piston pump, overcomes the problems associated with semi-flowable and sticky products by providing a constant pressure on the surface of the product in the drum, which 'force feeds' the pump. As the level of the product drops, a follower plate maintains the pressure on the surface of the product and at the same time wipes the sides of the drum.



Measuring Cylinder

Measuring Cylinders

Used in conjunction with a Kecal Piston Pump Pressure Priming System these Measuring Cylinders will dispense a predetermined volume of liquid or viscous product. They are constructed of either carbon steel or 316 stainless steel and are available in either manual or pneumatic actuation and fixed or adjustable outputs from about 200ml up to 3 Litres. Accuracy is normally better than $\pm 1\%$.



Special Systems

Non-Standard Pumps & Systems

Whether your requirement is for a special length piston pump with a non-standard outlet fitting or a Powerlift, Powerprime or Maxiprime system for non-standard vessels, Kecal will design and manufacture a unit to suit your requirements. Our engineers will be pleased to discuss the many different options that are available such as interlocking guards, jacking or standard castors, drum loading systems, quick strip pumps, dispensing and filling systems, etc