ITT

A Global Leader in Pump & Valve Solutions

Jabsco Hygienic Wine Processing

Flexible Impeller & Rotary Lobe Pumps

Engineered for life

WINE PROCESSING

ITT

Fine Winemaking Maintains the Vineyard's Character

The main criterion for pumps in winemaking is the ability of the pump to protect the transferred product during all processes in the winemaking operation. Jabsco flexible impeller pumps not only meet these requirements, but they are a cost effective solution – as a single, multi-use pump that is able to manage pumping tasks, from pump-overs, must transfers, and handling of solids without damage to grape pulp.

It is extremely important when producing wine—such as, Pinot Noir, Viognier, and other delicate varietals—not to damage the grapes with excessive or violent pumping. The secret to successfully handling these fragile products comes from a technology which was first introduced by Jabsco more than 60 years ago - the flexible impeller pump. These pumps offer significant benefits when compared to other pump types for the pumping of viscous foodstuffs and other fluids that contain fragile solids. The minimal meshing action and low speed capability of the flexible impeller pump allows both viscous fluids and solid particles to pass through without damage.

THE IDEAL PUMP

For a winery, the ideal pump must be capable of moving the destemmed berries from the destemmer without macerating them or their seeds. Also, pump-over for red fermentations requires a pump that can lift must juice over the top of the tank at a high rate of flow. This high flow allows the juice to extract flavor and color from the must. The high throughput must be accomplished with gentle handling of the juice. The flexible impeller pump provides the necessary self-priming pumping, while minimizing impact on the finished product. For this reason, even larger wineries are purchasing flexible impeller pumps for use as dedicated automated pump-over pumps to save cost over more expensive pump alternatives.

THE BEST METHOD

Wineries have tried alternative techniques to move the pomace, like augers and conveyors, however the best method found has been to use large positive displacement pumps, like a flexible impeller pump. The flexible impeller pump design is also well suited for moving wine around the winery for other transfer applications. This includes simple tank-to-tank transfers, for filling and emptying barrels, all of which requires a pump that has enough suction to lift and push fluids distances in order to get the wine to the barrel.

Filtration requires a pump that delivers a predictable flow while generating significant pressure. These are intrinsic attributes of all positive displacement pumps like the flexible impellers. Flow and pressure is also important for the bottling process to transfer the wine through at a controllable rate.

THE MOST VERSATILITY FOR THE LEAST COST

Wineries sometimes have purpose specific pumps for each phase of the winemaking process. However, most smaller wineries require one pump to satisfy several applications – a good all-around pump. The Jabsco flexible impeller pumps provide the most versatility for low cost - and that includes not only the purchase price, but also maintenance and repairs. The impeller is much softer than the pump cavity, and is much quicker, cheaper and easier to repair. Ingesting a chunk of metal, like a vineyard staple, may destroy a progressing cavity or rotary lobe pump, whereas it is simply a few minutes of repair for a flexible impeller pump.

A Jabsco flexible impeller pump is a complete, cost effective solution - a single, multi-use pump that is able to handle pumping tasks throughout the entire winemaking process, allowing the creation of superior wine.

To see how Jabsco can improve your product quality, contact ***jabsco.sanitary@itt.com*** *with your specific application requirements.*

APPLICATIONS

Jabsco Flexible Stainless Steel Impeller Pumps are the cost effective alternative to traditional rotary lobe pumps and can be used for a variety of winery applications. They are used to perform tasks from the crush pad, including must transfer, pump over, tank transfer, barrel filling and topping to bottling and general winery usage.

IDEAL FOR

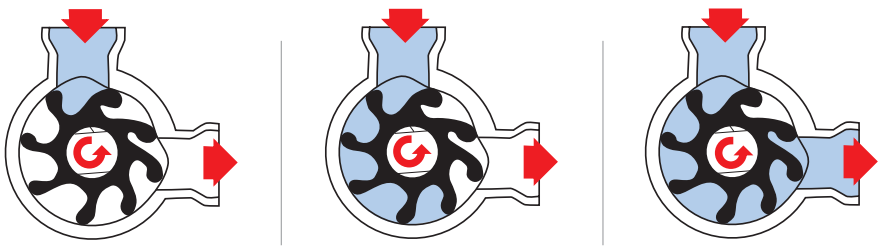
- Crush Pad
- Pumping Must and Free Run Juice from the Destemmer to the Press and to the Fermenting Tank
- Press Sump Transfer or Tank to Tank Transfer
- Pump Over and Filling Barrels
- Bottling with Consistent Flow Filtration

PRODUCT RANGE SPECIFICATIONS

Pump Model (US)		282x0 (30550)		283x0 (30560)		284x0 (30570)		285x0 (30580)		286x0 (N/A)	
Size		40		80		200		370		500	
Mounting		Pedestal	Head Kit	Pedestal	Head Kit	Pedestal	Head Kit	Pedestal	Head Kit	Pedestal	Head Kit
Port Size	(mm)	25	25	25	25	38	38	50	50	63	63
	(inch)	1	1	1	1	1 1/2	1 1/2	2	2	2 1/2	2 1/2
Max Flow (per min)*	(litre)	58	58	128	128	225	225	365	365	500	500
	(US gal)	15.3	15.3	33.8	33.8	59.5	59.5	96	96	132	132
Max Pressure*	(bar)	3	3	4.5	4.5	4.5	4.5	3	3	4	4
	(psi)	43	43	65	6.5	65	65	43	43	58	58
Max Speed (RPM)		2500	2500	2500	2500	1800	1800	1500	1500	1500	1500
Size LxBxH	(mm)	169x115x147	115x115x115	214x130x160	136x130x130	260x162x180	167x162x162	331x186x218	193x186x186	475x192x224	230x192.5x192
	(inc ports) (inch)	6.5x4.5x5.75	4.5x4.5x4.5	8.5x5x6.25	5.25x5x5	10.25x6.25x7	6.5x6.25x6.25	13x7.25x8.5	7.5x7.25x8.5	18.75x7.5x8.75	9x7.5x7.5
Bareshaft Weight	(kg)	2.9	2.5	4.4	3.5	9.1	6.6	14.7	10	22	15
	(lbs)	6.4	5.5	9.7	7.7	20	14.5	32	22	48.5	33
Temp Neoprene °C (°F)		65 (149)	65 (149)	65 (149)	65 (149)	65 (149)	65 (149)	65 (149)	65 (149)	65 (149)	65 (149)
Temp EPDM °C (°F)		120 (248)	120 (248)	120 (248)	120 (248)	120 (248)	120 (248)	120 (248)	120 (248)	120 (248)	120 (248)
Viscosity (cP)		1 to 50,000									

PUMP PRINCIPLE

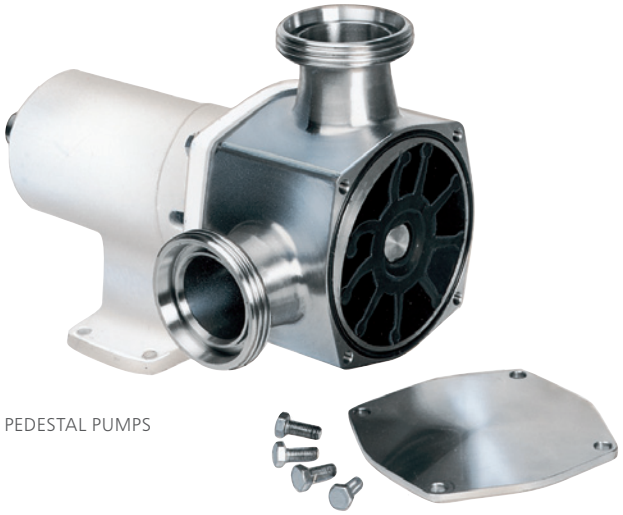
On start-up, air in the inlet pipe is displaced and liquid is drawn into pump (1) then carried through (2) to be discharged at a steady flow rate (3). This action combines gentle pumping with true dry priming capability.



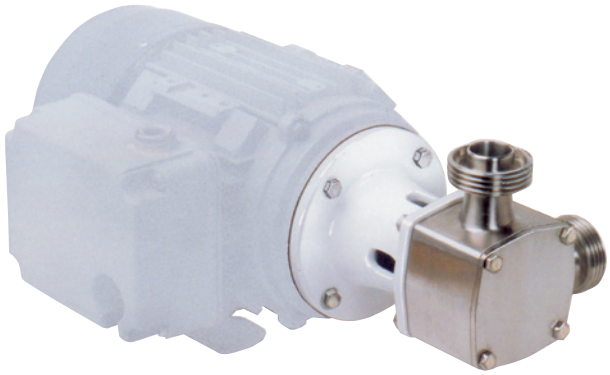
1 2 3

FLEXIBLE IMPELLER HYGIENIC POSITIVE DISPLACEMENT PUMPS

ITT Jabsco Hygienic Flexible Impeller Pumps handle low and high-viscosity liquids, gels and pastes and can pass suspended soft and hard solids with minimal damage. The output flow is smooth, steady and totally pulsation-free and their gentle pumping action will not break down shear-sensitive or fragile liquids. Designed to be cleaned in place or easily strip-cleaned, ITT Jabsco flexible impeller pumps frequently offer a more suitable and cost-effective alternative to many other pump types.



PEDESTAL PUMPS



MOTOR MOUNTED PUMPS

OPTIONS

PEDESTAL PUMPS

- Foot-mounted to couple to gearbox or belt-drive.
- Hygienic rubber impeller.
- Long-life mechanical shaft seal.
- All 316 grade stainless steel parts with high surface finish.
- Used in Food, Dairy, Beverage, Healthcare & Cosmetics sectors.

MOTOR MOUNTED PUMPS

- Suitable for mounting onto standard IEC or NEMA motors.
- Close-coupled to motor (unibloc); compact and economical.
- Hygienic rubber impeller.
- Long-life mechanical shaft seal.
- All 316 grade stainless steel parts with high surface finish.
- Used in Food, Dairy, Beverage, Healthcare & Cosmetics sectors .

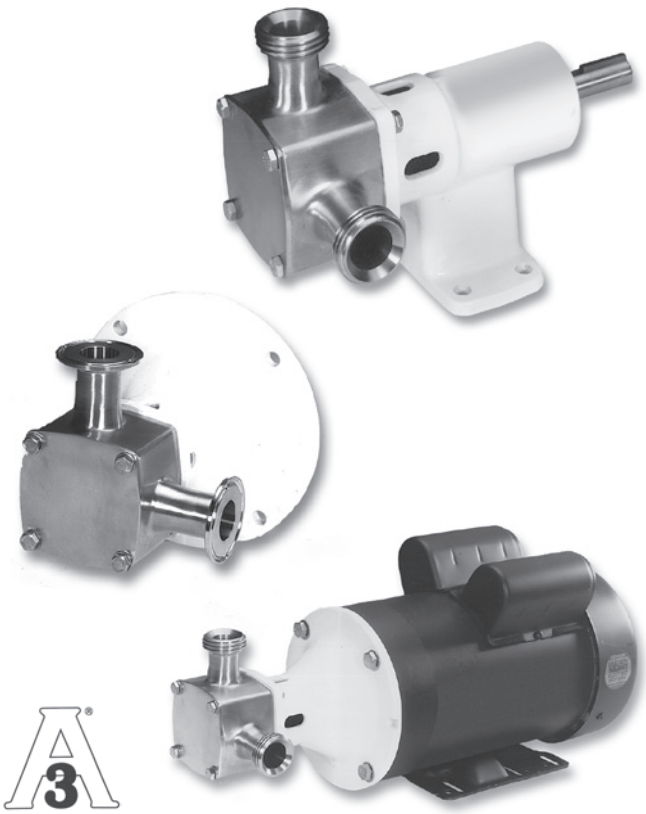
DESIGN FEATURES

- Dry self-priming.
- All 316 grade stainless steel parts with high surface finish.
- Hygienic rubber impeller leaves no taste or odor.
- Elastomers Certified to US 3-A Standard 18-03.
- Pump certified to US 3-A Standard 02-10.
- Long-life mechanical shaft seal.
- Easy strip-to-clean.
- USDA Approved.
- Variety of port and impeller material options.
- Chemical-resistant 316 grade stainless steel parts.
- Rugged heavy-duty construction.
- Replaceable wearplates.
- Passes even hard metal particles without stalling.
- Long-life mechanical shaft seal.
- Variety of shaft seal options.
- 3-A Variants - Must be specified with HYG Neoprene or EPDM.
- Port Options - Tri-Clamp, IDF, 3-A, DIN 11851.

THE 3-A SANITARY STANDARD

Jabsco's complete line of Sanitary Flexible Impeller Pumps have been recognized by 3-A Sanitary Standards, Inc. as the Flexible Impeller Pump that meets 3-A Standards for design and fabrication. This coveted designation assures processors that the equipment meets the sanitary requirements of regulatory sanitarians and other public health professionals.

30560 SERIES | PEDESTAL & MOTOR MOUNT PUMPS



FEATURES

- Flow rate: Nominal 21.5 US gallons/min. 81 Litres/min) at 1750rpm.
- Self-priming from dry up to 2.4m (7.8 ft).
- Pressure up to 4 bar.
- Handles soft solids - max. 12mm diameter.
- Certified to US 3-A Standard 02-10.
- Clean-In-Place (CIP) or easy strip clean.
- Handles viscosities up to 50,000 centipoise.
- Minimal shear to thixotropic fluids.
- Easy to service and maintain.

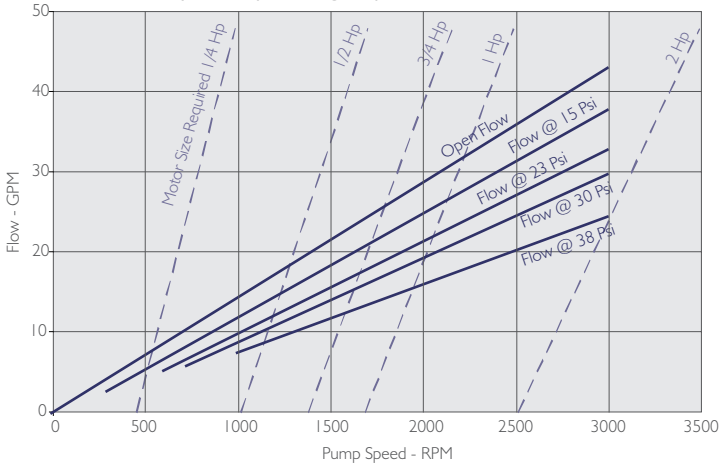
SPECIFICATIONS

Pump Type	Pedestal Pump, Pump Head, Close Coupled
Body	316 Grade Stainless Steel
Impeller	Neoprene or EPDM
Shaft Seal	Mechanical; Carbon-on-Ceramic or Tungsten Carbide; Nitrile
Ports	1" ACME Threads with Bevel Seat or Clamp Type
Shaft	316 Grade Stainless Steel
Shaft	316 Grade Stainless Steel Motor
Motor	115/230 Vac, Single Phase, 60Hz, 1-1/2 HP, H145 TC Frame, C-Face, 1740 RPM, TEFC, Overload Protected, Capacitor Start.
Weight	8.5 lb (3.9 kg) Approx. Pedestal
Weight	12.0 lb (5.5 kg) Approx. Pump Head
Weight	56.0 lb (25.4 kg) Approx. Close Coupled

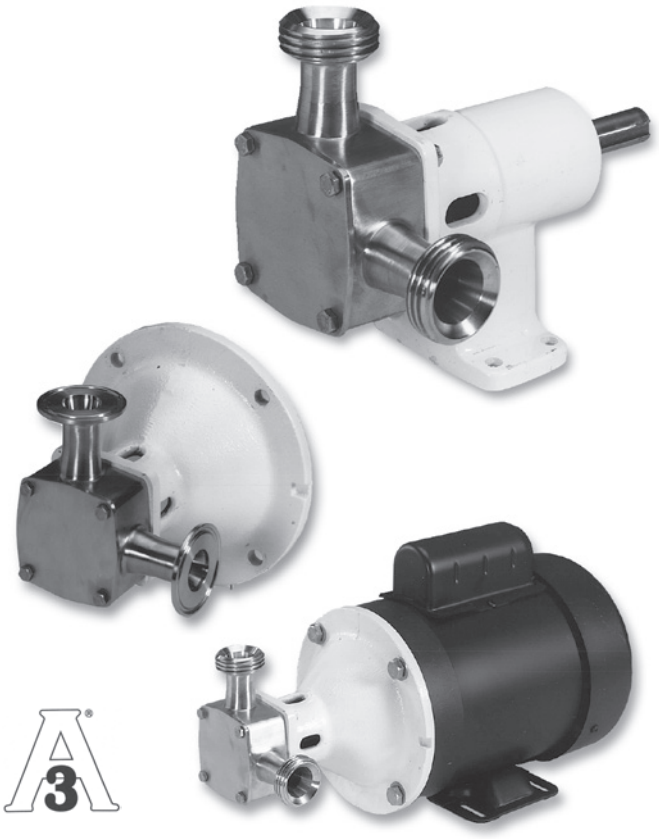
MODELS

MODEL #S	CE	VOLTAGE	IMPELLER	STYLE	
30560-0005	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30560-0015	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30560-0105	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30560-0115	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30560-1005	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30560-1015	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30560-1105	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30560-1115	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30560-2005	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless
30560-2105	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless
30560-3005	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless
30560-3105	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless
30560-4005	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless
30560-4105	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless
30560-5005	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless
30560-5105	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless

30560 Series Performance Curve - Standard Pressure FG Neoprene Impeller
Viscosity 1-500 Cp - Starting Torques Fwd 4.7 lbf-ft / Rev 11.1 lbf-ft



30550 SERIES | PEDESTAL & MOTOR MOUNT PUMPS



FEATURES

- Flow rate: Nominal 10.5 US gallons/min (40 Litres/min) at 1750rpm.
- Self-priming from dry up to 2.4m (7.8 ft).
- Pressure up to 4 bar.
- Handles soft solids - max. 8mm diameter.
- Certified to US 3-A Standard 02-10.
- Clean-In-Place (CIP) or easy strip clean.
- Handles viscosities up to 50,000 centipoise.
- Minimal shear to thixotropic fluids.
- Easy to service and maintain.

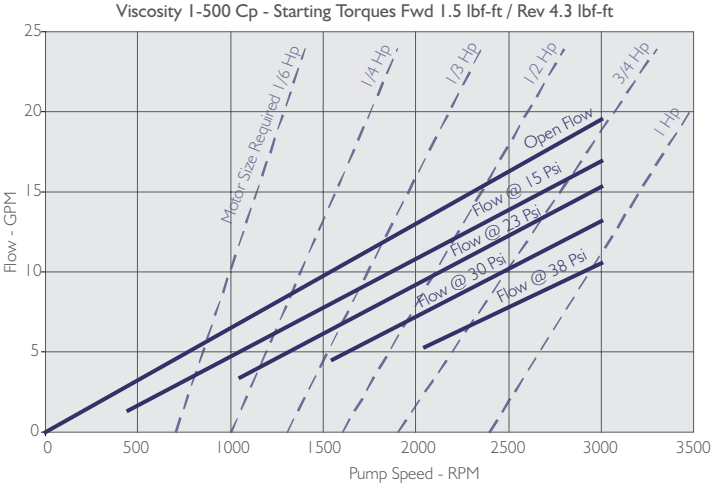
SPECIFICATIONS

Pump Type	Pedestal Pump, Pump Head, Close Coupled
Body	316 Grade Stainless Steel
Impeller	Neoprene or EPDM
Shaft Seal	Mechanical; Carbon-on-Ceramic or Tungsten Carbide; Nitrile
Ports	1" ACME Threads with Bevel Seat or Clamp Type
Shaft	316 Grade Stainless Steel Pedestal
Shaft	316 Grade Stainless Steel Motor: Pump Head, Close Coupled
Motor	115 Vac, Single Phase, 60Hz, 3/4 HP, 1750 RPM, TEFC, C-Face, 56C Frame
Weight	5.5 lb (2.5 kg) Approx. Pedestal Pump
Weight	7.5 lb (3.4 kg) Approx. Pump Head
Weight	36.0 lb (16.3 kg) Approx. Close Coupled

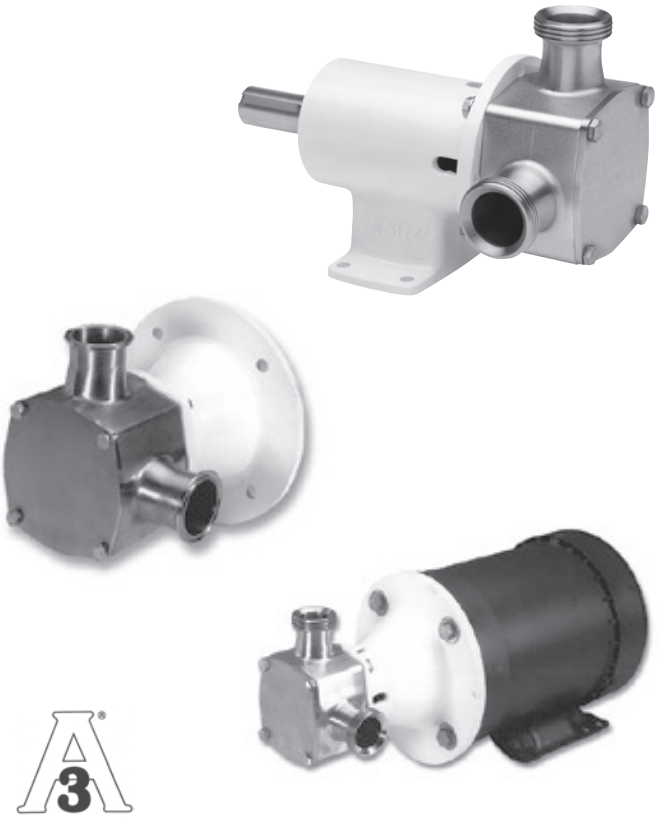
MODELS

MODEL #S	CE	VOLTAGE	IMPELLER	STYLE	
30550-0005	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30550-0015	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30550-0105	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30550-0115	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30550-1005	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30550-1015	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30550-1105	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30550-1115	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30550-2005	No	115 VAC	Sanitary Neoprene	MPU	Stainless
30550-2105	No	115 VAC	Sanitary Neoprene	MPU	Stainless
30550-3005	No	115 VAC	Sanitary Neoprene	MPU	Stainless
30550-3105	No	115 VAC	Sanitary Neoprene	MPU	Stainless
30550-4005	No	115 VAC	Sanitary Neoprene	MPU	Stainless
30550-4105	No	115 VAC	Sanitary Neoprene	MPU	Stainless
30550-5005	No	115 VAC	Sanitary Neoprene	MPU	Stainless
30550-5105	No	115 VAC	Sanitary Neoprene	MPU	Stainless

30550 Series Performance Curve - Standard Pressure FG Neoprene Impeller
Viscosity 1-500 Cp - Starting Torques Fwd 1.5 lbf-ft / Rev 4.3 lbf-ft



30570 SERIES | PEDESTAL & MOTOR MOUNT PUMPS



FEATURES

- Flow rate: Nominal 51 US gallons/min (193 Litres/min) at 1750 rpm.
- Self-priming from dry up to 2.4m (7.8 ft).
- Pressure up to 4 bar.
- Handles soft solids - max. 16mm diameter.
- Certified to US 3-A Standard 02-09.
- Clean-In-Place (CIP) or easy strip clean.
- Handles viscosities up to 50,000 centipoise.
- Minimal shear to thixotropic fluids.
- Easy to service and maintain.

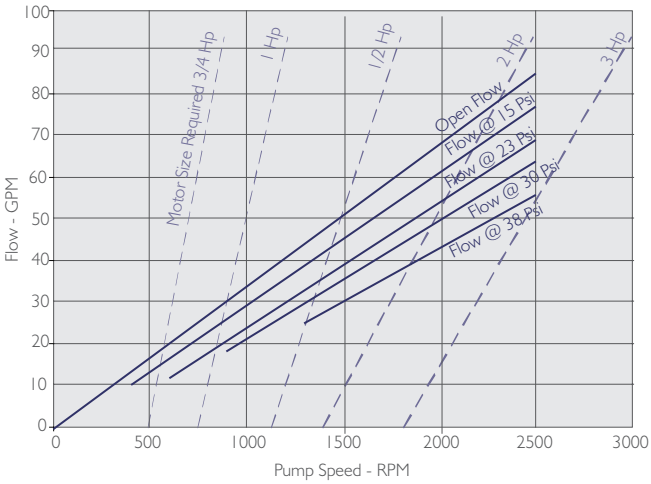
SPECIFICATIONS

Pump Type	Pedestal Pump, Pump Head, Close Coupled
Body	316 Grade Stainless Steel
Impeller	Neoprene or EPDM
Shaft Seal	Mechanical; Carbon-on-Ceramic or Tungsten Carbide; Nitrile
Ports	1-1/2" ACME Threads with Bevel Seat or Clamp Type
Shaft	316 Grade Stainless Steel
Shaft	316 Grade Stainless Steel Motor
Motor	230/460 Vac, 3 Phase, 60Hz, 5 HP 1750 RPM, TEFC, C-Face, 184 TC Frame
Weight	21.0 lb (9.5 kg) Approx. Pedestal
Weight	30.0 lb (18.6 kg) Approx Pump Head
Weight	93.5 lb (42.5 kg) Approx. Close Coupled

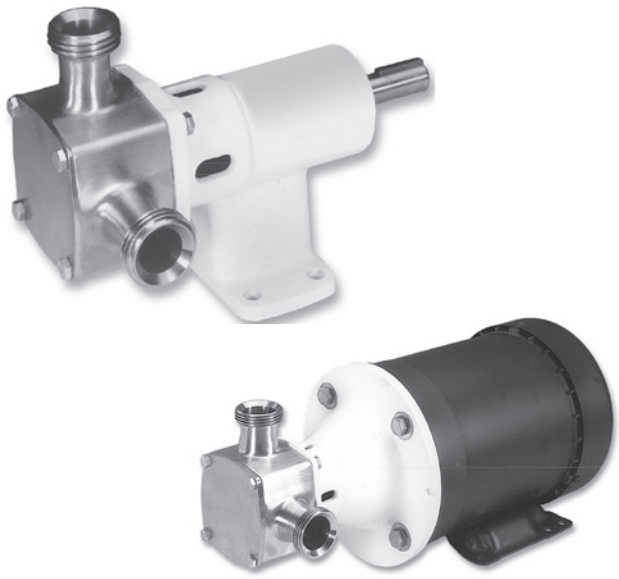
MODELS

MODEL #S	CE	VOLTAGE	IMPELLER	STYLE	
30570-0005	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30570-0015	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30570-0105	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30570-0115	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30570-1005	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30570-1015	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30570-1105	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30570-1115	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30570-4005	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless
30570-4105	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless
30570-5005	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless
30570-5105	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless
30570-2005	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless
30570-2105	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless
30570-3005	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless
30570-3105	No	115/230 VAC	Sanitary Neoprene	MPU	Stainless

30570 Series Performance Curve - Standard Pressure FG Neoprene Impeller
Viscosity 1-500 Cp - Starting Torques Fwd 12.9 lbf-ft / Rev 42.6 lbf-ft



SERIES 30580 | PEDESTAL & MOTOR MOUNT PUMPS



FEATURES

- Flow rate: Nominal 105 US gallons/min (397 Litres/min) at 1750rpm.
- Self-priming from dry up to 2.4m (7.8 ft).
- Pressure up to 4 bar.
- Handles soft solids - max. 18mm diameter.
- Certified to US 3-A Standard 02-10.
- Clean-In-Place (CIP) or easy strip clean.
- Handles viscosities up to 50,000 centipoise.
- Minimal shear to thixotropic fluids.
- Easy to service and maintain.

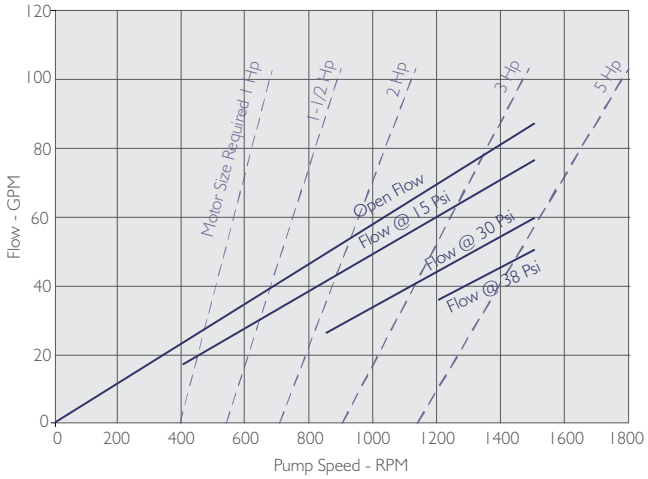
SPECIFICATIONS

Pump Type	Pedestal Pump
Body	316 Grade Stainless Steel
Impeller	Neoprene or EPDM
Shaft Seal	Mechanical; Carbon-on-Ceramic or Tungsten Carbide; Nitrile
Ports	2" ACME Threads with Bevel Seat or Clamp Type
Shaft	316 Grade Stainless Steel
Weight	31.0 lb (14.1 kg) Approx.

MODELS

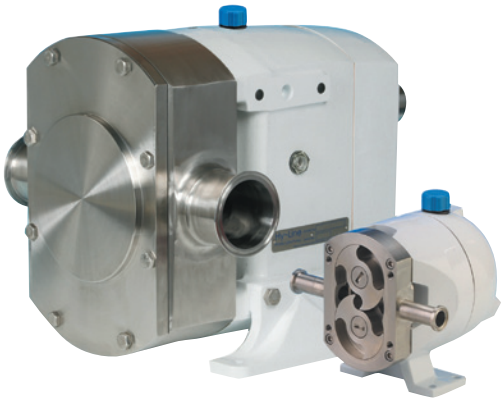
MODEL #S	CE	VOLTAGE	IMPELLER	STYLE	
30580-0005	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30580-0015	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30580-0105	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30580-0115	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30580-1005	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30580-1015	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30580-1105	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless
30580-1115	Yes	N/A	Sanitary Neoprene	Pedestal	Stainless

30580 Series Performance Curve - Standard Pressure FG Neoprene Impeller
Viscosity 1-500 Cp - Starting Torques Fwd 24.2 lbf-ft / Rev 43.6 lbf-ft



HY~LINE | SUPER HYGIENIC POSITIVE DISPLACEMENT PUMP

ITT Jabsco's latest rotary positive displacement pump incorporates the very latest in hygienic design concepts in order to fulfill the ever increasing customer demands for improved cleanability, hygiene and sterilize ability. This 316 Stainless Steel design uses a bi-wing rotor, which encompasses the very best features of tri-lobe rotor pumps and circumferential piston pumps. The pump is built upon ITT Jabsco's 40 year experience of producing and supplying their Flexible Impeller and 24 Series rotary lobe pumps to the world's most demanding markets.



DESIGN FEATURES

MOST STRINGENT HYGIENIC STANDARDS

Flush rotor fixing screws are sealed to prevent product ingress. Contoured rotor case internals for full drainability during SIP and shaft seals set up front where the pumping action is! Fully conforming to 3A 02-10 Hygienic Standards and utilizing materials which meet FDA requirements. Versions are available that have been tested and approved to the EHEDG (European Hygienic Equipment Design Group), CIP and SIP protocols and USDA, 3A certification.

LOW MAINTENANCE COSTS

Front loaded single shaft seals are fully accessible from the front of the pump without disturbing the process pipework. Simple bearing assemblies easily pre-set using automotive technology. Bi-wing rotors require no timing adjustments. Even the pump casing is removable, a feature not normally associated with other bi-wing rotor pumps.

HIGH VOLUMETRIC EFFICIENCY

The bi-wing rotors incorporate the low viscosity efficiency associated with circumferential piston pumps with the viscous product handling capability of tri-quad and bi-lobe rotor pumps at an affordable price.

RUGGED DESIGN

Hy~Line design utilizes extremely large shaft diameters mounted in high specification taper roller bearings, fitted into an extremely rigid central pillar made from a high grade alloy. This is all enclosed in an oil filled housing made from the same alloy. These, together with wide tipped rotor wings, which adds another dimension to security, avoid premature pump failure due to overpressure or other abuse.

OPTIONS

SEALS

Front loaded single mechanical face type seals of hygienic design. Materials include carbon, stainless steel and silicon carbide.

Low pressure flushed seals utilize the same single mechanical seal with an additional housing. A low pressure flush liquid washes away crystallizing products or liquids which 'skin over'.

Double mechanical seals utilizing all the components from single seals. Used for hazardous, toxic, highly abrasive or sterile products.

Front loaded single O-Ring seals - a low cost seal option used primarily for self lubricating products and products which contain little or no abrasives.

Front loaded double O-Ring seals - suitable for pressurized grease or flushing with a suitable liquid to enable low cost sealing of high sugar confectionery and bakery products.

Multiple PTFE lip seal - complete with controlled release food grade grease injection system, the ideal sealing system for chocolate & other products sensitive to water flush.

CERTIFICATION

3.1B Material Certification package.

3-A Variants with Nitrile or EPDM elastomers and port options - Tri-clamp, IDF, 3A, DIN11851

CONNECTIONS

All US and European standards including DIN, SMS, RJT, IDF, Tri-Clamp & BSP. Most pumps available with 2 different sizes, all fully interchangeable. (Not on 3 & 7 size)

ELASTOMERS

Nitrile, Viton, EPDM and PTFE product contact joints available in compounds conforming to 3A Sanitary Standard 18-03 and FDA title 21 section 177.2600.

OTHER OPTIONS

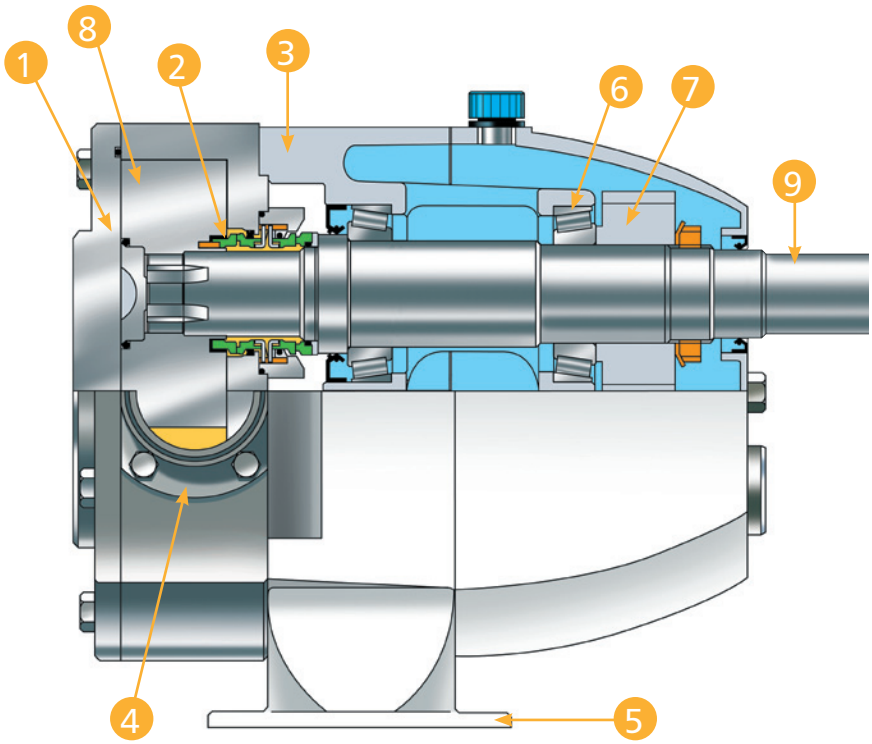
Pump Head temperature control jackets
Integral pressure relief valve
Enlarged suction port for viscous products
All stainless steel bearing pedestal and cover
Low carbon 316L pump head
Tanker pump version for direct hydraulic drive

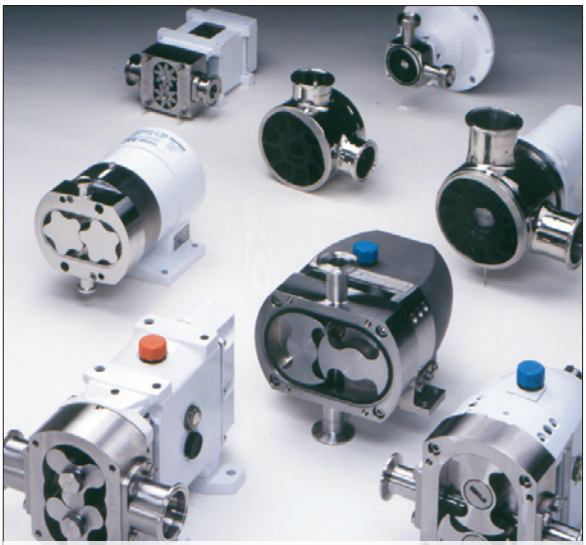
HY~LINE

Pump Model	LH32	LH34	LH42	LH44	LH52	LH54	LH62	LH64	LH72	LH74	LH76
Port Size (mm)	19 or 25	25 or 38	25 or 38	38 or 50	38 or 50	50 or 76	63 or 76	76 or 100	76 or 100	100 or 152	127 or 152
(inch)	3/4 or 1	1 or 11/2	1 or 11/2	11/2 or 2	11/2 or 2	2 or 3	2, 2 1/2 or 3	3 or 4	3 or 4	4 or 6	5 or 6
Displacement (litre)	3.5	7	12.3	20.4	26.5	45.5	64	95	123	205	301.5
(100 revs) (US gal)	0.92	1.85	3.25	5.39	7.00	12.02	16.90	25.10	32.50	54.15	79.65
Max Flow (litre)	52	105	123	204	265	455	461	684	836	1230	1809
(per min) (US gal)	13.7	27.7	32.5	53.9	70.0	120.2	121.8	180.7	220.8	324.9	477.9
Max Pressure (bar)	15	8	15	8	15	8	15	8	15	8	5
(psi)	217	116	217	116	217	116	217	116	217	116	72
Max Speed (RPM)	1500	1500	1000	1000	1000	1000	720	720	680	600	600
Size LxBxH (mm)	213x192x166	229x192x166	274x223x196	290x223x196	386x249x208	414x259x213	460x270x311	464x302x311	486x380x363	526x386x363	573x412x363
(inch)	8.25x7.5x6.5	9x7.5x6.5	10.75x8.75x7.75	11.5x8.75x7.75	15.25x9.75x8.25	16.25x10.25x8.25	18.25x10.75x12.25	18.25x11.75x12.25	19.25x15x14.25	20.75x15.25x14.25	22.5x16.25x14.25
Bareshaft Weight (kg)	8	10	18	20	32	35	61	65	125	145	165
(lbs)	18	22	40	44	70	77	134	143	275	319	363
Temp (°C)	-30 to 140										
(°F)	-22 to 284										
Viscosity (cP)	1 to 1 million										

CONSTRUCTION DETAILS

1. Flush fitting, sealed rotor retaining screws avoid build up of stagnant product as no end cover recesses are required and no product can get into the rotor drive.
2. Front mounted shaft seals for easy replacement and full accessibility of CIP liquids.
3. Rugged, high grade alloy bearing pedestal and housing for low weight and high strength, completely encased in epoxy coating.
4. Detachable ports for maximum flexibility in connection type and size. (Not on 3 & 7 size).
5. Removable feet allow quick change for pump mounting in the ideal orientation. (Not on 3 & 7 size).
6. High specification taper roller bearings give over one million hours life on a typical duty.
7. Precision cut spur gears for high load capability and ease of maintenance.
8. Fully interchangeable bi-wing rotors can be fitted without the need to re-time thus reducing downtime and allows pump to cope with a higher level of abuse.
9. Heavy duty shafts for high pressure capability.





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