

STANDARD
Pump, Inc.



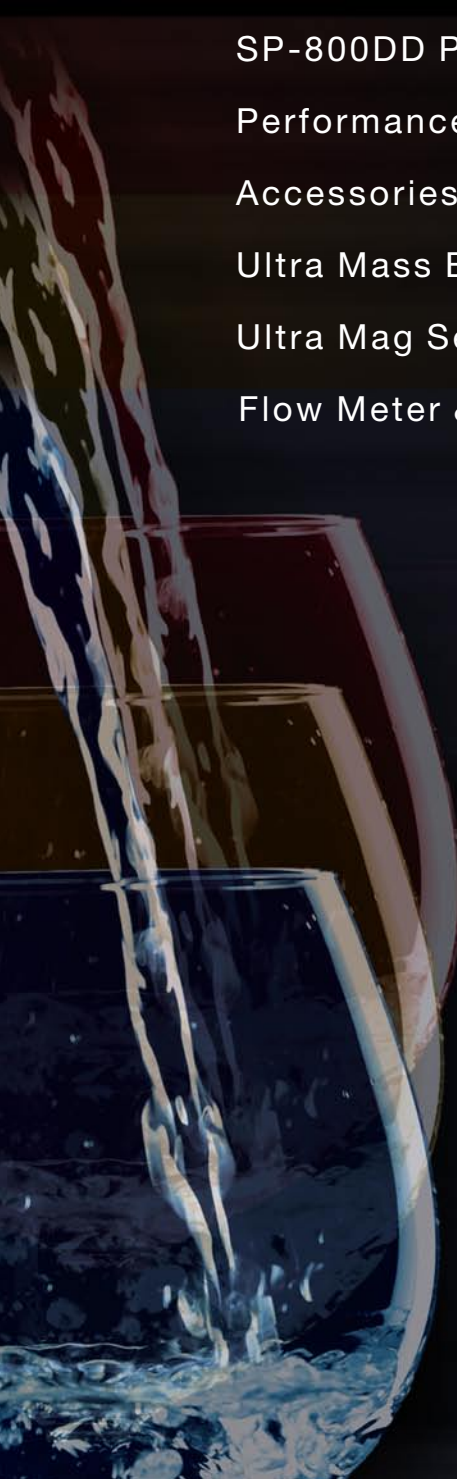
Sanitary Pumps & Metering Systems

P/N: SP2009

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STANDARD



Pharmaceutical

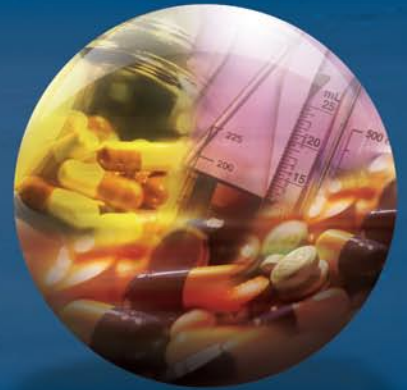
Food

Beverage

Biotech

Cosmetic

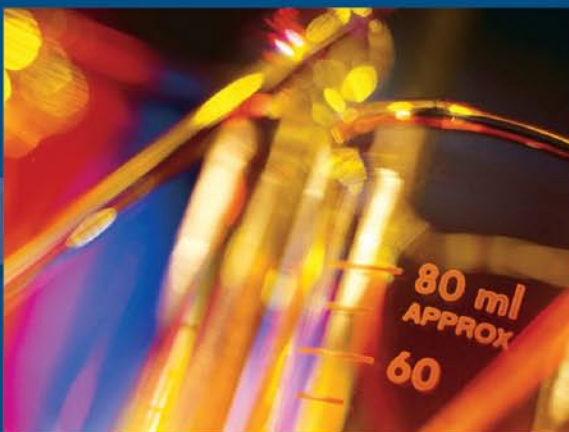
Poultry



Applications



Drums & Barrels



Laboratory



Large Storage Vessels



Stainless Tanks

SP-8100 Ultra Flow Series

Standard's 8100 series pump is engineered to transfer low viscosity food products, pharmaceutical materials and personal care solutions from drums, ToteTanks® and kettles. The pumps' wetted surfaces are constructed with FDA compliant materials which provide an ideal solution for sanitary applications.



Features

- FDA Compliant Materials
- Flow Rates To 32 GPM (121 LPM)
- Easy To Clean
- Tri-Clamp Fittings
- Light Weight & Portable
- Variable Speed Motors

Common Applications

- Sauces
- Dairy Products
- Pharmaceutical Materials
- Wine & Beer
- Juices
- Cosmetic Fragrances

Technical Specifications

Model Number:	SP-8100-39 SP-8100-47
Immersion Length:	39" (1000 mm) 47" (1200 mm)
Wetted Components:	316 SS, Teflon & Buna
Motor Drive:	SP-ENC, SP-280P, SP-A1, SP-A2, SP-400-2
Inlet/Discharge:	1.6" (41 mm) / 1.25" (32 mm)
Maximum Viscosity:	1,000 cps (mPAS)
Maximum Flow Rate:	32 GPM (121 LPM)
Maximum Discharge Pressure:	16 psi (1,1 bar) based on water
Pump Weight:	11 lbs (5 kg) motor weight varies upon model
Maximum Temperature:	175° F (80° C)

Motor Drives



SP-280 Series



SP-ENC Series



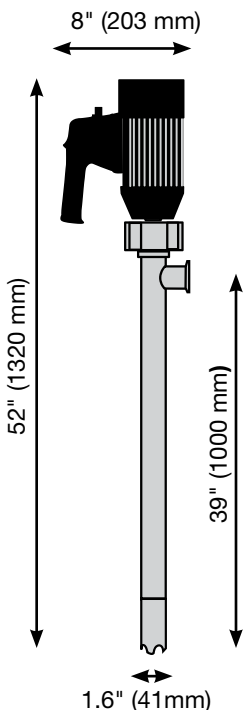
SP-400-2 Series



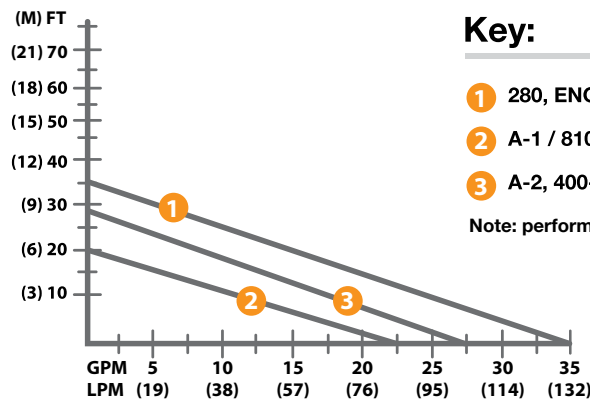
SP-A1 Series



SP-A2 Series



Flow Curves



Key:

- 1 280, ENC / 8100 Pump Tube
- 2 A-1 / 8100 Pump Tube
- 3 A-2, 400-2 / 8100 Pump Tube

Note: performance based on water

Note: Pump is constructed with FDA compliant materials; however, the system does not have FDA certification.

SP-8200 Sanitary Series

Standard's 8200 Series pump is engineered to transfer low viscosity food products, pharmaceutical materials and personal care solutions from drums, ToteTanks® and kettles. The pumps' wetted surfaces are constructed with FDA compliant materials which provide an ideal solution for sanitary applications.



Features

- FDA Compliant Materials
- Flow Rates To 15 GPM (57 LPM)
- Discharge Pressure 70 FT (22 M)
- Easy To Clean
- Tri-Clamp Fittings
- Light Weight & Portable
- Variable Speed Motors

Common Applications

- Sauces
- Dairy Products
- Pharmaceutical Materials
- Wine & Beer
- Juices
- Cosmetic Fragrances

Motor Drives



SP-280 Series



SP-ENC Series

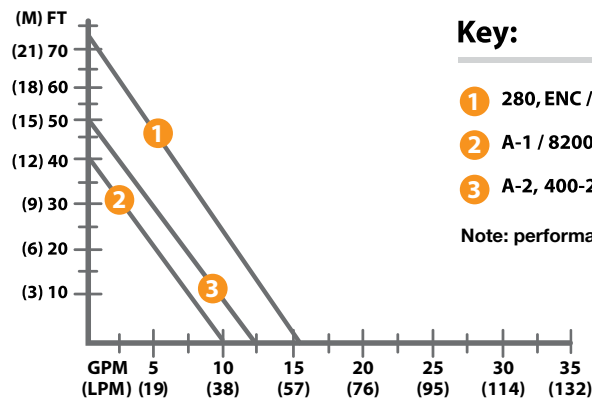


SP-400-2 Series

Technical Specifications

Model Number:	SP-8200-39 SP-8200-47
Immersion Length:	39" (1000 mm) 47" (1200 mm)
Wetted Components:	316 SS, Buna & Teflon
Motor Drive:	SP-ENC, SP-280P, SP-A1, SP-A2, SP-400-2
Inlet/Discharge:	1.6" (41 mm) / 1.25" (32 mm)
Maximum Viscosity:	1,000 cps (mPAS)
Maximum Discharge Pressure:	32 psi (2,2 bar) based on water
Maximum Flow Rate:	15 GPM (57 LPM)
Pump Weight:	11 lbs (5 kg) motor weight varies upon model
Maximum Temperature:	175° F (80° C)

Flow Curves



Key:

- 1 280, ENC / 8200 Pump Tube
- 2 A-1 / 8200 Pump Tube
- 3 A-2, 400-2 / 8200 Pump Tube

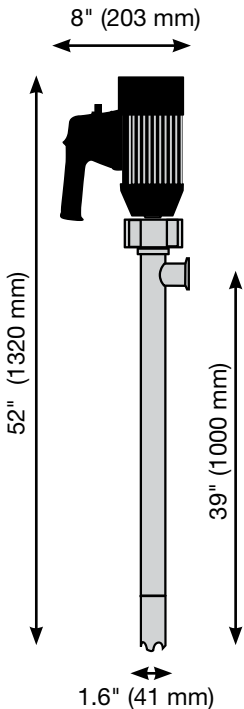
Note: performance based on water



SP-A1 Series



SP-A2 Series



Note: Pump is constructed with FDA compliant materials; however, the system does not have FDA certification.

SP-800SR Sanitary Series

Standard's 800SR Series Pumps are engineered specifically for transferring viscous food products, pharmaceutical materials and cosmetic lotions from drums, ToteTanks® and kettles. The progressive cavity design delivers a continuous flow of material with little product degradation. Maximum viscosity is **25,000 cps (mPAS)**.



Common Applications

- Pie Fillings
- Tomato Paste
- Lotions
- Juice Concentrates
- Chocolate
- Shampoo

Motor Drives



SP-280 Series



SP-ENC Series



SP-400-2 Series

Technical Data

Design: Progressive Cavity / Positive Displacement

Maximum Viscosity:
751 & 752 Series 25,000 cps (mPAS)
1851 Series 10,000 cps (mPAS)

Discharge Port: 1.5" (38 mm) Tri-Clamp Hose Barb,
Optional 1.25" (32 mm)

Stator Materials: Teflon or White Buna

Mechanical Seal: SiC/Viton/SiC

Immersion Lengths:
27" (700 mm)
39" (1000 mm)
47" (1200 mm)

Please add 6" (150 mm) to the immersion length of pump for the 752 series pumps.

Wetted Material: Tube & Rotor Assembly: 316 Stainless Steel

Stator Material: Teflon or White Buna

316 SS Polished to 32 Ra

Pump Finish:

Fittings:

Large Type Acme Thread design enables operator to disassemble pump quickly for cleaning, maintenance and inspection

Maximum Flow Rate:
1851 Series 12 GPM (45 LPM) based on water
751 & 752 Series 7 GPM (26 LPM) based on water

Maximum Discharge Pressure:
751 & 1851 Series 87 psi (6 bar)
752 Series 174 psi (12 bar)

Bag Liner Series: Optional pump intake design available for applications with hygienic liners

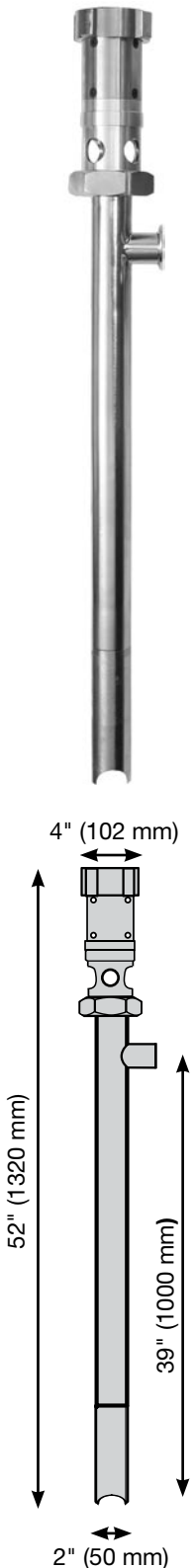
Benefits

- Hygienic Design
- Easy To Clean & Maintain
- Gentle Product Treatment
- Continuous Flow

Bag Liner Series



Pump Intake



Warning: When pumping flammable or combustible liquids pump tube must be used in conjunction with an explosion proof motor.

Note: Pump is constructed with FDA compliant materials; however, the system does not have FDA certification.

SP-8100, SP-8200 & SP-800SR Pump Motors

SP-280P Series



MODEL	ENCLOSURE	POWER	WATT	V.S.D.	SHIPPING WT lbs (kgs)
SP-280P	Open Drip Proof (IP44)	110-120V/1/50-60Hz	825	No	9.0 (4,0)
SP-280P-V	Open Drip Proof (IP44)	110-120V/1/50-60Hz	825	Yes	9.0 (4,0)
SP-280P-2	Open Drip Proof (IP44)	220-240V/1/50-60Hz	825	No	9.0 (4,0)
SP-280P-2-V	Open Drip Proof (IP44)	220-240V/1/50-60Hz	825	Yes	9.0 (4,0)

⚠ Warning: Not suitable for pumping flammable or combustible liquids

V.S.D. = Variable Speed Drive

SP-280 Series



SP-ENC Series



MODEL	ENCLOSURE	POWER	WATT	V.S.D.	SHIPPING WT lbs (kgs)
SP-ENC	TEFC (IP54)	110-120V/1/50-60Hz	825	No	12.7 (5,7)
SP-ENC-V	TEFC (IP54)	110-120V/1/50-60Hz	825	Yes	12.7 (5,7)
SP-ENC-2	TEFC (IP54)	220-240V/1/50-60Hz	825	No	12.7 (5,7)
SP-ENC-2-V	TEFC (IP54)	220-240V/1/50-60Hz	825	Yes	12.7 (5,7)

⚠ Warning: Not suitable for pumping flammable or combustible liquids

V.S.D. = Variable Speed Drive

SP-ENC Series



SP-400 Series



MODEL	ENCLOSURE	POWER	WATT	V.S.D.	SHIPPING WT lbs (kgs)
SP-400-2	Explosion Proof	220-240V/1/50-60Hz	550	No	24.0 (11,0)

⚠ May be used for pumping flammable or combustible liquids and must be used with stainless pump tube only

SP-400-2 Series



SP-A2 Series



MODEL	CONSUMPTION	MAX. INLET PRESSURE	OUTPUT
SP-A2	28 CFM @ 90 psi	100 psi	3/4 Hp
	13.2 L/sec @ 6,2 bar	6,8 bar	560 W
SP-A2L (trigger lock)	28 CFM @ 90 psi	100 psi	3/4 Hp
	13.2 L/sec @ 6,2 bar	6,8 bar	560 W

⚠ Not recommended for use on SP-800SR Series pumps

SP-A2 Series



SP-A1 Series



MODEL	CONSUMPTION	MAX. INLET PRESSURE	OUTPUT
SP-A1	22 CFM @ 90 psi	100 psi	1/2 Hp
	10.4 L/sec @ 6,2 bar	6,8 bar	370 W

⚠ Not recommended for use on SP-800SR Series pumps

SP-A1 Series



SP-800DD Sanitary Series

Standard's 800DD Series Pumps are engineered specifically for transferring viscous food products, pharmaceutical materials and cosmetic lotions from drums, ToteTanks® and kettles. The progressive cavity design delivers a continuous, smooth flow of material with little product degradation. Maximum viscosity is **100,000 cps (mPAS)**.



Common Applications

- Pie Fillings
- Juice Concentrates
- Tomato Paste
- Chocolate
- Lotions
- Shampoo

Motor Drives



TEFC
Electric Motor



Washdown
Electric Motor



Stainless Steel
Electric Motor



Pneumatic Motor



Technical Data

Design: Progressive Cavity / Positive Displacement

Maximum Viscosity:
751 & 752 Series 100,000 cps (mPAS)
1851 Series 10,000 cps (mPAS)

Discharge Port: 1.5" (38 mm) Tri-Clamp Hose Barb, Optional 1.25" (32 mm)

Stator Materials: Teflon or White Buna

Mechanical Seal: SiC/Viton/SiC

Immersion Lengths:
27" (700 mm)
39" (1000 mm)
47" (1200 mm)

Please add 6" (150 mm) to the immersion length of pump for the 752 series pumps

Wetted Material: Tube & Rotor Assembly: 316 Stainless Steel

Stator Material: Teflon or White Buna

Pump Finish: 316 SS Polished to 32 Ra

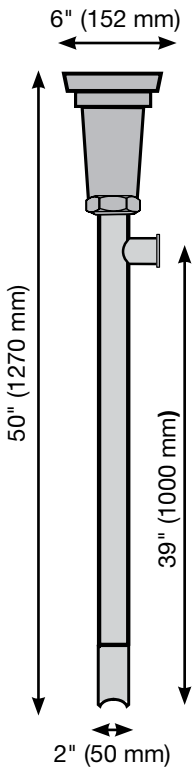
Motor Drives: TEFC, Washdown, Stainless Steel & Air

Fittings: Large Type Acme Thread design enables operator to disassemble pump quickly for cleaning, maintenance and inspection B14/C140-160

Mounting Flange:
Maximum Flow Rate:
1851 Series 12 GPM (45 LPM) based on water
751 & 752 Series 7 GPM (26 LPM) based on water

Maximum Discharge Pressure:
751 & 1851 Series 87 psi (6 bar)
752 Series 174 psi (12 bar)

Bag Liner Series: Optional pump intake design available for applications with hygienic liners



Benefits

- Hygienic Design
- Easy To Clean & Maintain
- Gentle Product Treatment
- Continuous Flow

Bag Liner Series



Pump Intake

Warning: When pumping flammable or combustible liquids pump tube must be used in conjunction with an explosion proof motor.

Note: Pump is constructed with FDA compliant materials; however, the system does not have FDA certification.

SP-800DD Pump Motors

TEFC Motors — 230-460V / 380-415V / 3 / 50-60 Hz

(Interchangeable with DD Series pumps on page 7)

MODEL	HP	KW	RPM	ENCLOSURE	FRAME	FLANGE	SHIPPING WT lbs (kg)
SP-502	0.75	,55	750-900	TEFC (IP55)	90LC	B14/C140	40 (18)
SP-512*	1	,75	750-900	TEFC (IP55)	100LC	B14/C160	52 (24)
SP-522*	1.5	1,1	750-900	TEFC (IP55)	100LC	B14/C160	58 (25)
0017	Motor wiring for 230V/3/50-60 Hz which includes 570, 571, 572, 8708						

TEFC
Electric Motor



Washdown Motors — 230-460V / 380-415V / 3 / 50-60 Hz

(Interchangeable with DD Series pumps on page 7)

MODEL	HP	KW	RPM	ENCLOSURE	FRAME	FLANGE	SHIPPING WT lbs (kg)
SP-504	0.75	0,55	750-900	Washdown	90LC	B14/C140	40 (18)
SP-514*	1	0,75	750-900	Washdown	100LC	B14/C160	52 (24)
SP-524*	1.5	1,1	750-900	Washdown	100LC	B14/C160	58 (25)
0017	Motor wiring for 230V/3/50-60 Hz which includes parts 570, 571, 572, 8708						

Washdown
Electric Motor



Stainless Steel Motors — 230-460V / 380-415V / 3 / 50-60 Hz

(Interchangeable with DD Series pumps on page 7)

MODEL	HP	KW	RPM	ENCLOSURE	FRAME	FLANGE	SHIPPING WT lbs (kg)
SP-508	0.75	0,55	750-900	Encapsulated	90LC	B14/C140	65 (30)
SP-518*	1	0,75	750-900	Encapsulated	100LC	B14/C160	96 (44)
SP-528*	1.5	1,1	750-900	Encapsulated	100LC	B14/C160	115 (52)
0017	Motor wiring for 230V/3/50-60 Hz which includes parts 570, 571, 572, 8708						

Stainless Steel
Electric Motor



Sanitary Pneumatic Motor

(Interchangeable with DD Series pumps on page 7)

MODEL	HP	kW	RPM	AIR CONSUMPTION	FRAME	Air CONN. Inch (mm)	SHIPPING WT LBS (Kg)
SP-A4FP	2	1,5	300-900	80 CFM @ 100 psi 37 L/Sec @ 7 bar	IEC#72/D71	1/4" (6,35)	12.0 (5,0)
SP-A6FP	4	3,0	300-900	130 CFM @ 100 psi 65 L/Sec @ 7 bar	IEC#72/D80	1/2" (12,7)	24.0 (11,0)
SP-A8FP	5	3,7	300-900	170 CFM @ 100 psi 80 L/Sec @ 7 bar	IEC#72/D90	1/2" (12,7)	26.0 (12,0)

Pneumatic Motor

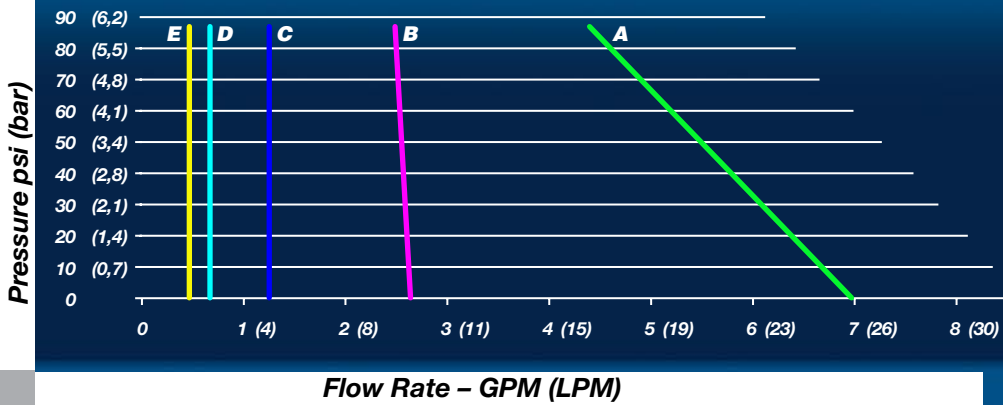


*Indicates pump requires two flanges

Performance Curves

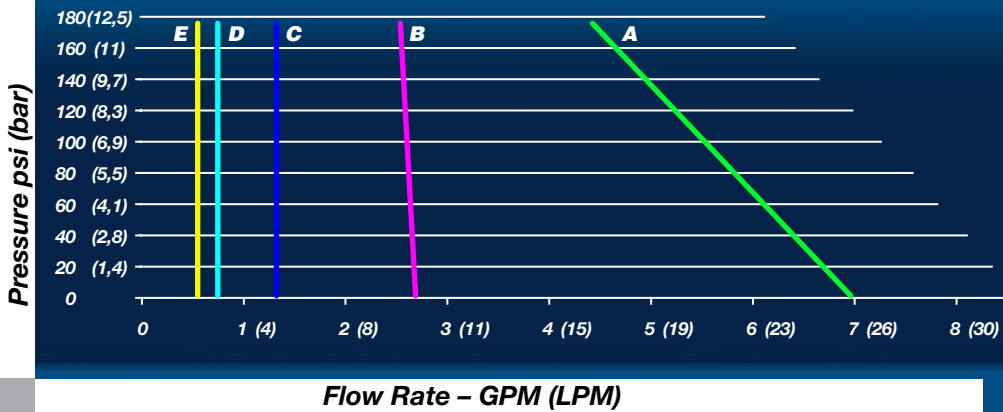
900 RPM 60 Hz Operation & Pneumatic Motors

751 Series Pumps



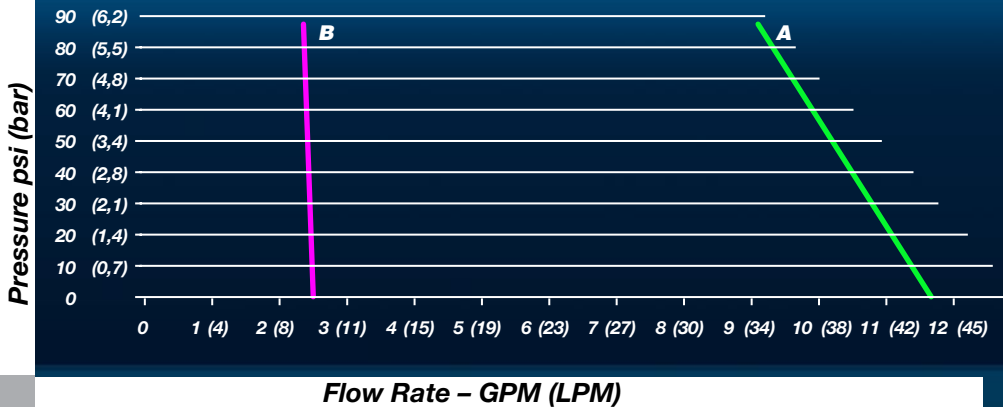
	Viscosity cps (mPAS)	Electric HP (KW)	Air HP (KW)
A	1	.75 (.55)	2 (1.5)
B	10,000	.75 (.55)	2 (1.5)
C	30,000	1 (.75)	4 (3)
D	60,000	1 (.75)	4 (3)
E	100,000	1.5 (1.1)	5 (3.7)

752 Series Pumps



	Viscosity cps (mPAS)	Electric HP (KW)	Air HP (KW)
A	1	.75 (.55)	2 (1.5)
B	10,000	.75 (.55)	2 (1.5)
C	30,000	1 (.75)	4 (3)
D	60,000	1 (.75)	4 (3)
E	100,000	1.5 (1.1)	5 (3.7)

1851 Series Pumps



	Viscosity cps (mPAS)	Electric HP (KW)	Air HP (KW)
A	1	.75 (.55)	2 (1.5)
B	10,000	.75 (.55)	2 (1.5)

Technical Notes

- Performance Curves are intended to be used as a guide only as individual results may vary.
- Pump Stator Elastomers (Teflon, Viton or Buna) may vary performance.
- Performance Curves were created using a 900 RPM motor. Reducing motor speed will decrease pump performance. Do NOT increase motor speed above 900 RPM's.
- Pump Curves were created with a Newtonian Polymer (Viscosity remains constant regardless of shear). Non-Newtonian materials (viscosity does not remain constant with shearing) may vary performance.

DISCHARGE HOSE CLAMP

Part Number
9038

Malleable iron two bolt clamp
Gripping ridges, reinforced lugs
Hose size from 1.75 (44,5 mm) to 2.05" (53 mm)
(44.50 mm to 27 mm)
Torque Value: 27 ft lbs (3,75 Kg /m)



PLICORD® GRAY FOOD TRANSFER HOSE

Part Number
9037

Flexible hose for gravity flow, pressure or suction service transferring edibles from tank truck and in-plant service. Construction: White Chemivic® synthetic rubber (FDA/USDA, 3A Sanitary Standard 18-03 compliant). Cover: Spiral-plyed synthetic fabric with Galvanized Wire helix. Branding: Continuous spiral brand "Goodyear Plicord Gray Food; FDA, 3/A & USDA 150 psi."



Nom. ID in/mm	Nom. OD in/mm	Max WP psi/bar	Bend Radius in/mm	Vacuum in/mm	Weight lb-ft/kg-m	Temp Range F°/C°
1.5 / 38,1	1.97 / 50,04	150 / 10,2	4.0 / 102	29 / 736,6	0.85 / 1,26	-25 to 180 / -32 to 82

Plicord® & Chemivic® are registered trademarks of The Goodyear Tire & Rubber Company

PUMP HANGER

Part Number
8430

Pump Hanger For Direct Drive Series



HAND CLAMP

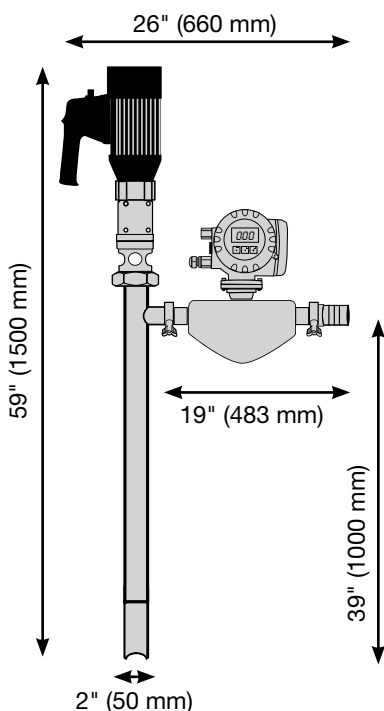
Part Number
9005

Engineered to vertically stabilize pump on open top containers



Ultra Mass Series | Batch Control System

Standard's Ultra Mass Batch Control System is designed for high precision dosing applications from drums, ToteTanks® and kettles. Simply dial in your desired volume or weight and the Ultra Mass BCS will deliver a preset dose of product – virtually hands free. The systems components meet 3A Third Party Verification (TPV) Sanitary Standards insuring the highest quality product suitable for the Food Processing, Pharmaceutical, Dairy and Bio-Tech industries.



Features

- 3A (TPV) Components
- FDA Compliant Materials
- Low Shear Design
- Easy to Clean
- Tri-Clamp Fittings
- Interface Capabilities: HART, PROFIBUS, PA/DP, FOUNDATION FIELDBUS
- Suitable for Conductive & Non-Conductive Solutions
- Quick Setup Menus for In-field Commissioning

Common Applications

- Sauces
- Creams
- Dairy Products
- Shampoo & Conditioner
- Pharmaceutical Materials
- Pie Fillings

Technical Specifications

Wetted Components:	316SS (32 Ra or better), Teflon
Motor Drive:	Variable Speed / TEFC (IP54) / 1 HP (825w)
Inlet/Discharge:	2" (50 mm) / 1.5" (38 mm)
Metering Principle:	Coriolis Mass Flow Technology
System Accuracy:	+/- .30% of Reading
Check Valve:	316L Stainless Steel
Mechanical Pump Seal:	SiC / Viton / SiC
Pump Design:	Progressive Cavity
Immersion Length:	39" (1000 mm)
Maximum Solid Size:	.25" (6 mm)
Maximum Temperature:	185° F (85° C)
Viscosity Range:	
P/N: 8500 (110v), 8501 (220v)	1-10,000 cps (mPAS)
P/N: 8513 (110v), 8514 (220v)	10,000-25,000 cps (mPAS)
Maximum Discharge Pressure:	
P/N: 8500 (110v), 8501 (220v)	43 psi (3 bar) <i>based on water</i>
P/N: 8513 (110v), 8514 (220v)	87 psi (6 bar) <i>based on water</i>
Maximum Flow Rate:	
P/N: 8500 (110v), 8501 (220v)	8 GPM (30,2 LPM) <i>based on water</i>
P/N: 8513 (110v), 8514 (220v)	3 GPM (11,3 LPM) <i>based on water</i>
System Weight:	58 lbs (26 kg)
Bag Liner Series:	Optional pump intake design available for applications with hygienic liners



Note: Pump and meter is constructed with FDA compliant materials; however, the system does not have FDA certification.

Ultra Mag Series | Batch Control System

Standard's Sanitary Batch Control System is engineered for bulk, precision dosing and filling operations from drums, ToteTanks® and kettles - virtually hands free. This system utilizes a non-invasive Full Bore Magmeter for flow / volume measurement. Simply dial in desired volume, press enter, and the Sanitary Batch Control delivers a preset volume of material within .05% accuracy. The system is an excellent solution for conductive food products, pharmaceuticals, and cosmetic materials.



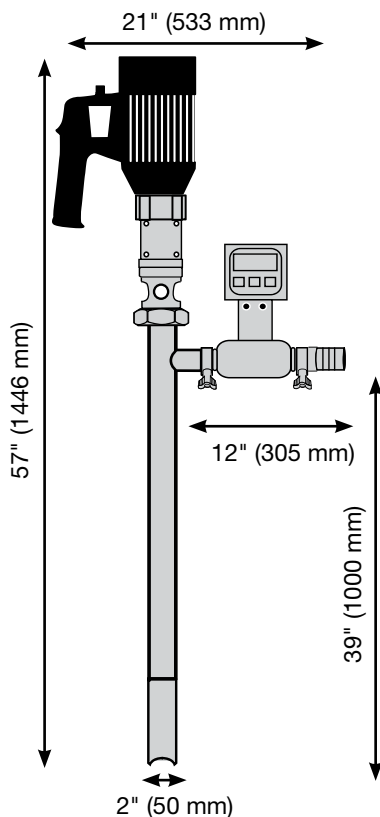
Features

- Large Graphic Display
- .05% +/- Repeatability
- Non-Invasive Measurement
- Max. Viscosity 25,000 cps (mPAS)
- Standard Or Metric Units Of Measure
- Tri-Clamp Fittings
- Low Shear Design
- Easy To Clean Design
- Multi-language Display
- Measures Volume
- 3A Certification

Common Applications

- Lotions
- Chocolate
- Juice Concentrates
- Pharmaceuticals
- Shampoo
- Pie Fillings
- Brine
- Tomato Paste

Technical Specifications

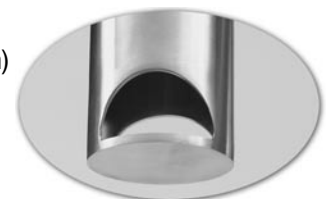


Wetted Parts:	316 SS (32 Ra finish or better) & Teflon
Motor Drive:	TEFC (IP 54) 110v or 230v
Inlet / Discharge Size:	2" (50 mm) / 1.5" (38 mm)
Pump Seal:	Mechanical SiC / Viton / SiC
Pump Design:	Progressive Cavity / Positive Displacement
Metering Principle:	Full Bore Mag Flowmeter
Viscosity Range:	
P/N: 8300 (110v), 8501 (220v)	1-10,000 cps (mPAS)
P/N: 8313 (110v), 8514 (220v)	10,000-25,000 cps (mPAS)
Maximum Discharge Pressure:	
P/N: 8300 (110v), 8301 (220v)	43 psi (3 bar) <i>based on water</i>
P/N: 8313 (110v), 8314 (220v)	87 psi (6 bar) <i>based on water</i>
Maximum Flow Rate:	
P/N: 8300 (110v), 8301 (220v)	10 GPM (38 LPM) <i>based on water</i>
P/N: 8313 (110v), 8314 (220v)	3 GPM (11,3 LPM) <i>based on water</i>

System Weight: 54 lbs (24 Kg)
Immersion Length: 39" (1000 mm)
Conductivity: System requires 5 micro-semans (µS/cm) of conductivity

Bag Liner Series: Optional pump intake design available for applications with hygienic liners

Bag Liner Series



Pump Intake

Note: Pump and meter is constructed with FDA compliant materials; however, the system does not have FDA certification.

Flow Meter & Pump System

Standard's Flow Meter & Pump System is engineered to dispense and meter materials from drums, ToteTanks® and kettles. The system includes a 3A Sanitary Transfer Pump in addition to a 3A Turbine Flow Meter. The Meter offers a truly hygienic design and accurate performance. A two-piece design enables operators to quickly disassemble and clean internal components. In addition, the unique design eliminates the need for internal locking rings. The proven Flow Meter & Pump System is an excellent choice for metering low viscosity liquids.



Features

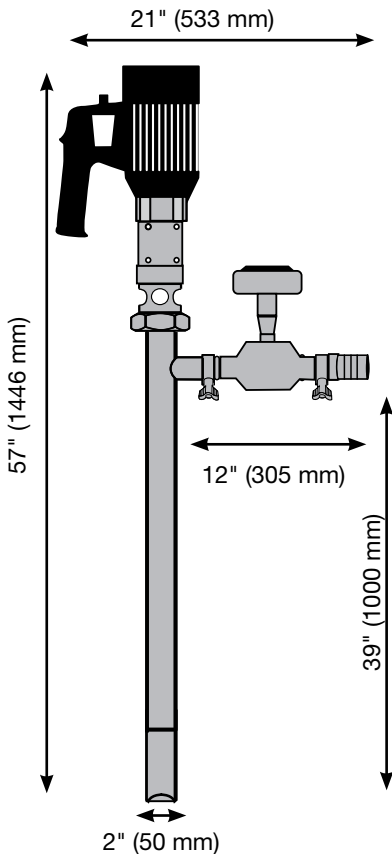
- Tri-Clamp Fittings
- Turbine Paddle Wheel
- Easy to Clean Design
- 3A Certification
- Viscosity to 100 cps (mPAS)
- Remote Mount Meter Display

Common Applications

- Milk
- Brine Solutions
- Beer
- Filtered Juice
- Water
- Filtered Wine

Technical Specifications

Wetted Parts:	316SS (32Ra or better), Teflon, Rulon 641
Accuracy:	+/- 0.5% (.10% Repeatability)
Maximum Viscosity:	100 cps m/PAS
Flow Range:	10 GPM (38 LPM) <i>based on water</i>
Inlet / Discharge:	2" (50 mm) / 1.5" (38 mm) Tri-Clamp Hose Barb
Pump Seal:	Mechanical SiC / Viton / SiC
Pump Design:	Progressive Cavity / Positive Displacement
Motor Drive:	TEFC 110v or 230v / Variable Speed Control
Maximum Discharge Pressure:	70 psi (4,8 bar)
System Weight:	40 lbs (18 Kg)
Immersion Length:	39" (1000 mm)
Maximum Temperature:	250° F (121° C)
Meter Power Supply:	12 v/DC
Bag Liner Series:	Optional pump intake design available for applications with hygienic liners



Pump Intake

Notes: Pump and meter is constructed with FDA compliant materials; however, the system does not have FDA certification. Remote mount display to 90 ft (27 m)



Additional Markets Served:



Industrial Drum & Container Pumps



AdBlue / Urea Pumps

Distributed By:



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Pump, Inc.

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