High Viscosity Drum & Container Pumps



STANDARD PUMP Industrial & Sanitary Pump Series



Standard Pump's Progressive Cavity pumps are engineered to transfer high viscosity materials from drums, tank's and IBC's. Utilizing the principle of positive displacement, these pumps deliver a continuous flow of material with little product degradation. The SP-700 (Industrial) and SP-800 (Sanitary) series pumps are capable of delivering flow rates to

17 GPM / 64 LPM or discharge pressure to 174 psi /12 bar. In addition, both series pumps can transfer materials ranging in viscosity to 100,000 cps / mPas. All pumps are constructed from robust 316SS with a choice of stator elastomers.



Revolutionizing pump technology.

SP-700 Industrial Pump Series

Standard's SP-700 Industrial Pumps are commonly used throughout the industrial marketplace for transferring viscous materials. Common applications include the transfer of: polymers, paints, petroleum-based products, resins and adhesives. The SP-700 series pumps utilize a threaded design for quick cleaning, inspection, and maintenance.





SP-800 Sanitary Pump Series

Standard's SP-800 Sanitary Pumps are commonly used throughout the sanitary food processing, pharmaceutical, biotechnology, and cosmetic industries. Applications include the transfer of: tomato paste, mayonnaise, pie fillings, salad dressing, shampoos, cosmetic lotions and conditioners. The SP-800 series pumps are manufactured according to 3A standards with FDA approved materials of construction. The pumps utilize a threaded design and tri-clamp fittings for quick cleaning, inspection and maintenance. The SP-700-SR pumps are engineered specifically for transferring viscous materials from drums and tanks commonly found in the industrial marketplace. The progressive cavity design deliverers a continuous, smooth flow of material with little product degradation. Maximum viscosity is 25,000 cps (mPAS).



www.standardpump.com

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

SP-800-SR Sanitary Series

The SP-800-SR pumps are engineered specifically for transferring viscous food products, pharmaceutical materials and cosmetic lotions from drums and tanks. The progressive cavity design deliverers a continuous flow of material with little product degradation. Maximum viscosity is 25,000 cps (mPAS).



Continuous Flow

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

Discharge Fitting



SP-ODP Series

| Model | Enclosure | Power | Watt | V.F.D |
|----------|-----------|-------------|------|-------|
| SP-ODP | O.D.P | 115/1/50-60 | 450 | No |
| SP-ODP-2 | O.D.P | 230/1/50-60 | 450 | No |

Warning: Not Suitable For Pumping Flammable or Combustible Liquids NOTE: V.F.D = Variable Frequency Drive



SP-280P Series

| Model | Enclosure | Power | Watt | V.F.D |
|-------------|--------------|-------------|------|-------|
| SP-280P | O.D.P (IP44) | 115/1/50-60 | 825 | No |
| SP-280P-V | O.D.P (IP44) | 115/1/50-60 | 825 | Yes |
| SP-280P-2 | O.D.P (IP44) | 230/1/50-60 | 825 | No |
| SP-280P-2-V | O.D.P (IP44) | 230/1/50-60 | 825 | Yes |

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Warning: Not Suitable For Pumping Flammable or Combustible Liquids NOTE: V.F.D = Variable Frequency Drive



SP-ENC Series

| Model | Enclosure | Power | Watt | V.F.D |
|------------|-----------------|-------------|------|-------|
| SP-ENC | T.E.F.C (IP 54) | 115/1/50-60 | 825 | No |
| SP-ENC-V | T.E.F.C (IP 54) | 115/1/50-60 | 825 | Yes |
| SP-ENC-2 | T.E.F.C (IP 54) | 230/1/50-60 | 825 | No |
| SP-ENC-2-V | T.E.F.C (IP 54) | 230/1/50-60 | 825 | Yes |

Warning: Not Suitable For Pumping Flammable or Combustible Liquids NOTE: V.F.D = Variable Frequency Drive



| SP-400 Series | | | | | |
|--------------------|------------|-------------|------|-------|--|
| Model | Enclosure | Power | Watt | V.F.D | |
| SP-400-2 | EXP (IP54) | 230/1/50-60 | 550 | No | |
| EEx de IIA T6 II2G | | | | | |

See warning at bottom of page.

SP-A2 Series

| JI //1 JCI | | | 1 |
|------------|----------------------|---------------------|--------|
| 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 |

WARNING: Pumping of flammables or combustible liquids can generate a static electric discharge, causing fire or explosion resulting in injury or death. Read and understand operating instructions before starting this unit. Follow all federal, state and local safety codes including NFPA 30 - NFPA77. Prior to connecting to air supply, install bond and ground wires and check continuity of each wire. A meter reading of one ohm or less is required for safe liquid transfer. Use only metallic drum, receiving vessel and metallic pump (SP-SS) when pumping flammables. Air motors are not recognized under any current Underwriter's Laboratory listing program. Consult a qualified engineer for suitability for use in a hazardous area or on flammables.

SP-700-DD Industrial Pump Series

The SP-700-DD pumps are engineered specifically for transferring viscous materials from drums and tanks commonly found in the Industrial Market place. The progressive cavity design delivers continuous flow of material with little product degradation. Maximum viscosity is 100,000 cps (mPAS).

| THE R | Motor Drives |
|---|--|
| Common Application Polymers Polymers Resins Adhesives V | ns Dil & Greases Paints /arnishes |
| Technical Data | Electric |
| Design: Max. Viscosity: Discharge Port: Stator Materials: Immersion Lengths Mechanical Seal: Wetted Material: | Progressive Cavity /Positive Displacement 100,000cps (mPAS) 1.5" / 38mm hose barb, optional 1.25"/32mm Teflon, Viton or Buna-N s: 27" (700mm) 39" (1000mm) 47" (1200mm) Please add 6" (150mm) to the Immersion length of pump for the 752 series pumps. SiC/Viton/SiC Tube & Rotor Assembly: 316 Stainless Steel Stator Material: Teflon, Viton, or Buna |
| Motor Drives: | Pneumatic or electric motors are available in 50 & 60 Hz, |
| Fittings: | 230, 380, 415 & 460v Large Type Acme Thread design enables operator to disassemble pump quickly for cleaning, maintenance, and inspection |
| Mounting Flange | B14/C140-160 |
| Max Flow Rate: | 17GPM / 64 LPM |
| Max Pressure: | Benefits Easy Maintenance Threaded Components Continuous Flow Low Shearing Properties |
| Discharge Fitting | |

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

SP-700-DD & SP-800-DD Pump Motors

Industrial Electric Motor



Sanitary Electric Motor



Industrial Pneumatic Motor

Industrial Electric Motors 230–380–415–460v/3/50–60Hz

| Model | HP | KW | RPM | Enclosure | Frame | Flange | Shipping Wt. LBS (Kg) |
|--------|------|-----|---------|-------------|-------|----------|--------------------------|
| SP-500 | 0.75 | ,55 | 750–900 | TEFC (IP55) | 90LC | B14/C140 | 40 (18) |
| SP-510 | 1 | ,75 | 750–900 | TEFC (IP55) | 100LC | B14/C160 | 52 (24) |
| SP-520 | 1.5 | 1,1 | 750–900 | TEFC (IP55) | 100LC | B14/C160 | 58 (25) |

Sanitary Electric Motors 230–380–415–460v/3/50–60Hz

| Model | HP | KW | RPM | Enclosure WASHDOWN | 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) |

Industrial Pneumatic Motors

| Model | HP | kW | RPM | Air Consumption | Frame Air Conn. Inch (mm) | Shipping Wt.) LBS (Kg) |
|-------|----|-----|---------|---------------------------------------|------------------------------|-----------------------------|
| SP-A4 | 2 | 1,5 | 300–900 | 80 CFM @ 100 psi 37 L/Sec @ 7 Bar | IEC#72/D71 1/4" (6.35) | 12 (5) |
| SP-A6 | 4 | 3,0 | 300–900 | 130 CFM @ 100 psi 65 L/Sec @ 7 Bar | IEC#72/D80 1/2"(12.7) | 24 (11) |
| SP-A8 | 5 | 3,7 | 300–900 | 170 CFM @ 100 psi 80 L/Sec @ 7 Bar | IEC#72/D90 1/2"(12.7) | 26 (12) |

Sanitary Pneumatic Motor



| 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/D7 | 1 1/4" (6.35) | 12 (5) |
| SP-A6FP | 4 | 3,0 | 300–900 | 130 CFM @ 100 psi 65 L/Sec @ 7 Bar | IEC#72/D80 |) 1/2" (12.7) | 24 (11) |
| SP-A8FP | 5 | 3,7 | 300–900 | 170 CFM @ 100 psi 80 L/Sec @ 7 Bar | IEC#72/D90 |) 1/2"(12.7) | 26 (12) |

Sanitary Pneumatic Motors

NOTE: Optimal pneumatic motor speed is 300–900 RPM.

The SP-800-DD pumps are engineered specifically for transferring viscous food products, pharmaceutical materials and cosmetic lotions from drums and tanks. The progressive cavity design deliverers a continuous, smooth flow of material with little product degradation. Maximum viscosity is 100,000 cps (mPAS).



Discharge Fitting

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

Accessories

Digital Flow Control Systems

STANDARD's **High Viscosity Batch Control System (BCS)** is equipped with a Full Bore Magmeter and offers a high precision solution for dosing and filling applications. The BCS is available in several lengths enabling operators to dispense viscous product from drum, tanks, and IBC's. Simply dial in the desired volume, press start, and the BCS will delivery the exact volume of product. The BCS is available in both Sanitary (CIP) and Industrial configurations.

The **Inline Digital Flow Sensor's** are an ideal solution for flow measurement of viscous product. The positive displacement flow sensor can adequately handle a wide range of fluid viscosities to 1,000,000 centipoise (cps). The Flow Sensors are available in a variety of configurations both in 316SS and Aluminum.







Quick Action Hose Couplings

The Cam Lever hose couplings offer an ideal solution for quickly connecting / disconnecting hose assemblies to pump discharge ports. Constructed of 316SS, these couplings offer durability and protection against corrosion. The Quick Action Couplings are precision made from investment castings to insure uniformity and proper alignment.

Transfer Hose

STANDARD offers a complete line of transfer hose suitable for transferring: Food products, Pharmaceuticals, cosmetic lotions, shampoos, petroleum products, paints, and varnishes. The robust design ensures a safe and clean transfer of product.





The pump hanger offers an ideal solution for moving your pump to multiple locations throughout the facility. The robust bracket is constructed from 1/2" 12mm 304SS tubing and fits on all DD series pumps.

Performance Curves

900 RPM 60 Hz Operation &

Pneumatic Motors

750 RPM 50Hz Operation







752 Series Pumps



20,000+

30,000+

30,000+

D

D

1

1.5

1,2





| Curve | Viscosity (cps) | HP | KW |
|-------|--------------------|-----|-----|
| Α | 1+ | .5 | ,37 |
| В | 10,000+ | 1 | ,75 |
| С | 20,000+ | 1 | 1,2 |
| D | 30,000+ | 1.5 | 1,2 |

1851 Series Pumps (BAR) 90 (6) 90 (6) PSI (BAR) 80 (5) 80 (5) 70 (4) 70 (4) С PSI D B 60 60(3.5) (3.5) 50 50 (3) (3) 40 40 (2) (2) **bressure** 30 20 10 0 Pressure 30 (1.5) 30(1.5) 20 (1) 20 (1) 10 (.5) 10 (.5) 0 0 0 4(15) 6 (23) 8 (30) 10(38) . 12 (45) 0 2 (8) 14 (53) Flow Rate — GPM (LPM) ΗP Viscosity κw Curve (cps) Α .5 ,37 1 +В 10,000+ ,75 1 С 20,000+ 1,2 1

1851 Series Pumps



| | Curve (cps) | Viscosity | HP | KW | i. |
|---|----------------|-----------|-----|-----|----|
| | Α | 1+ | .5 | ,37 | |
| - | В | 10,000+ | 1 | ,75 | |
| | С | 20,000+ | 1 | 1,2 | |
| | D | 30,000+ | 1.5 | 1,2 | |
| | | | | | |

NOTE: Accuracy of performance curves may vary +/- 10% based on specific applications.

1.5

1,2



Drum & Container Pumps



High Viscosity Drum & Container Pumps



Flow Control Systems

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