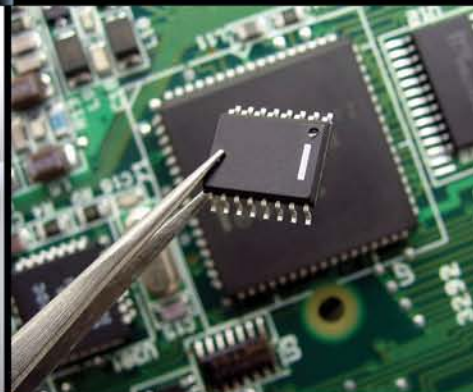


**STANDARD**  
*Pump, Inc.*



# Industrial Pumps & Metering Systems

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# MARKETS

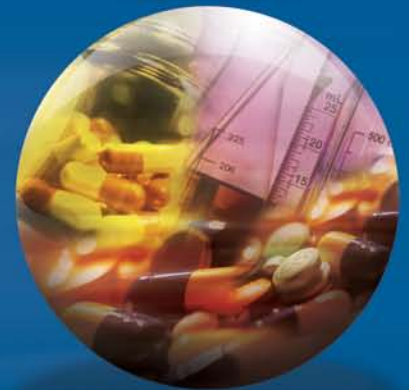
**Automotive**



**Chemical Packaging**

**Plating**

**Semi-Conductor**



**Waste Water Treatment**

**Pharmaceutical**

**Agriculture**



**Petroleum**



# Applications



Drums



Laboratory



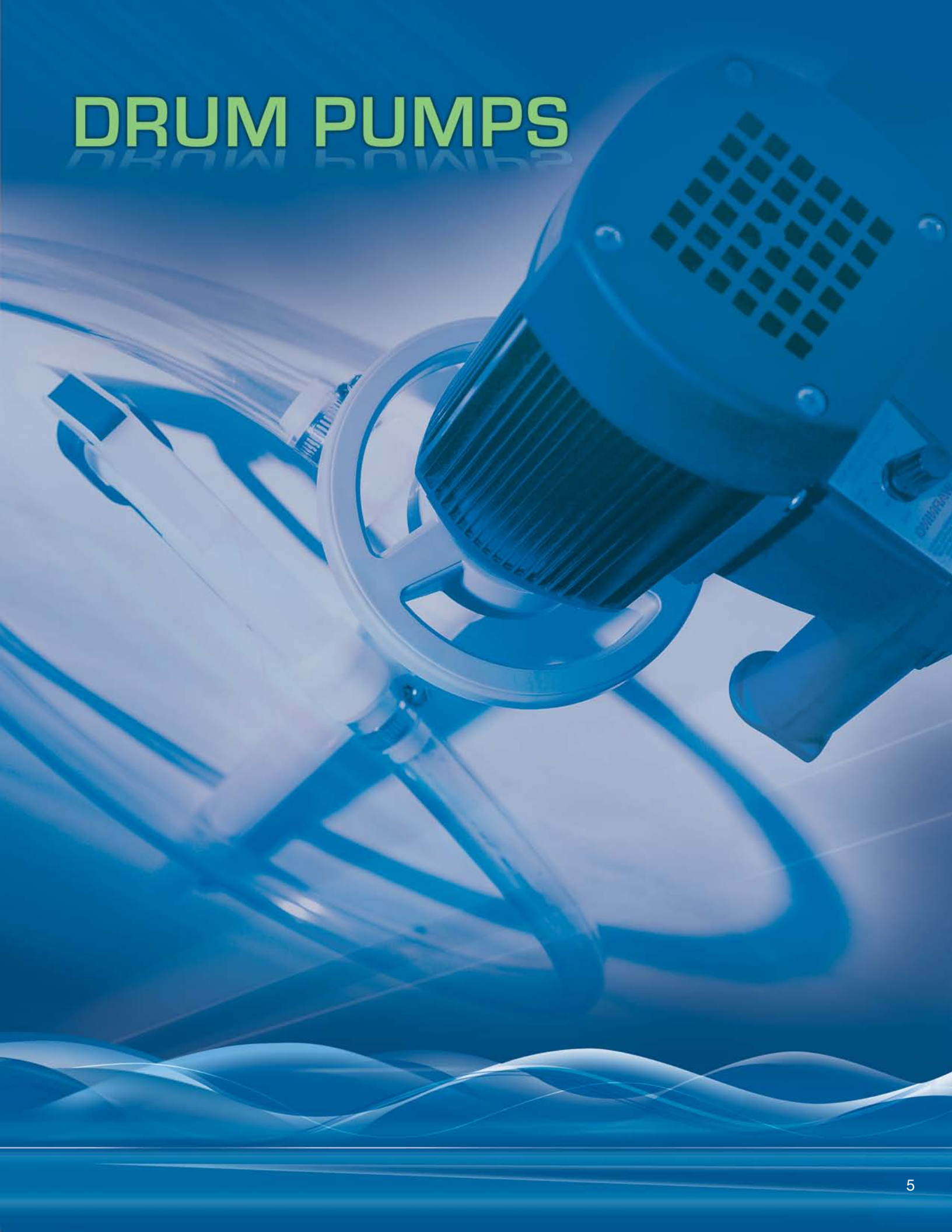
Large Storage Vessels



Stainless Tanks



# DRUM PUMPS



# Pump Packages



## Pump Package 1 | Water Treatment Chemicals

Engineered to transfer corrosive chemicals associated with the Water Treatment industry. Common applications include: Sodium Hypochlorite, Potassium Hydroxide and Sodium Bromide.

Motor type:	SP-280P-V or SP-280P-2-V
Pump Assembly:	CPVC
Pump length:	39" (1000 mm) or 47" (1200 mm)
Hose:	6 ft. (1,8 m), I.D. 1" (25 mm) PVC
Dispensing Nozzle:	1" (25 mm), Polypropylene
Barrel Adapter:	Polypropylene
Storage Bracket:	Steel
Max. flow rate:	15 GPM (57 LPM) based on water
Max. pressure:	35 ft. (10,6 m)
Max. viscosity:	1500 cps (mPas)
Max. temperature:	190° F (88° C)

### PART NUMBER:

#### 39" (1000 mm) Pump length

**9430** 110-120V package

**9431** 220-240V package

#### 47" (1200 mm) Pump length

**9432** 110-120V package

**9433** 220-240V package



## Pump Package 2 | Acids & Alkalis

Engineered to transfer corrosive liquids. Common applications include: Hydrochloric Acid, Nitric Acid (20%), Acetic Acid and Sulfuric Acid.

Motor type:	SP-280P-V or SP-280P-2-V
Pump Assembly:	Polypropylene
Pump length:	39" (1000 mm) or 47" (1200 mm)
Hose:	6 ft. (1,8 m), I.D. 1" (25 mm) PVC
Dispensing Nozzle:	1" (25 mm), Polypropylene
Barrel Adapter:	Polypropylene
Storage Bracket:	Steel
Max. flow rate:	15 GPM (57 LPM) based on water
Max. pressure:	35 ft. (10,6 m)
Max. viscosity:	1500 cps (mPas)
Max. temperature:	130° F (55° C)

### PART NUMBER:

#### 39" (1000 mm) Pump length

**9400** 110-120V package

**9401** 220-240V package

#### 47" (1200 mm) Pump length

**9402** 110-120V package

**9403** 220-240V package



## Pump Package 3 | Concentrated Acids & Alkalis

Engineered to transfer very concentrated and extremely aggressive liquids. Common applications include: Sulfuric Acid 66 Baumé, Propionic Acid, Concentrated Nitric (98%) and Hydrofluoric Acid.

Motor type:	SP-ENC-V or SP-ENC-2-V
Pump Assembly:	PVDF (Kynar®)
Pump length:	39" (1000 mm) or 47" (1200 mm)
Hose:	6 ft. (1,8 m), I.D. 1" (25 mm) Goodyear® Viper 16™
Dispensing Nozzle:	1" (25 mm), PVDF
Barrel Adapter:	Polypropylene
Storage Bracket:	Steel
Max. flow rate:	17.5 GPM (66 LPM) based on water
Max. pressure:	35 ft. (10,6 m)
Max. viscosity:	1500 cps (mPas)
Max. temperature:	175° F (80° C)

### PART NUMBER:

#### 39" (1000 mm) Pump length

**9420** 110-120V package

**9421** 220-240V package

#### 47" (1200 mm) Pump length

**9422** 110-120V package

**9423** 220-240V package

# Pump Packages Continued



## Pump Package 4 | Acids & Alkalis Measurement

Unique design allows users to safely measure and transfer corrosive liquids. Common applications include: Hydrochloric Acid, Nitric Acid (20%), Acetic Acid and Sulfuric Acid.

Motor type:	SP-280P-V or SP-280P-2-V
Pump Assembly:	Polypropylene
Pump length:	39" (1000 mm) or 47" (1200 mm)
Hose:	6 ft. (1,8 m), I.D. 1" (25 mm) PVC
Dispensing Nozzle:	1" (25 mm), Polypropylene
Flow Meter:	Digital / Polypropylene totalizer
Barrel Adapter:	Polypropylene
Storage Bracket:	Steel
Max flow rate:	13.5 GPM (51 LPM) based on water
Max. pressure:	35 ft. (10,6 m)
Max. viscosity:	300 cps (mPas)
Max. temperature:	130° F (55° C)

### PART NUMBER:

#### 39" (1000 mm) Pump length

**9500** 110-120V package

**9501** 220-240V package

#### 47" (1200 mm) Pump length

**9502** 110-120V package

**9503** 220-240V package



## Pump Package 5 | Concentrated Acids & Alkalis Measurement

Unique design allows operators to safely measure and transfer concentrated and very aggressive liquids. Common applications include: Sulfuric Acid 66 Baumé, Propionic Acid, Concentrated Nitric (98%) and Hydrofluoric Acid.

Motor type:	SP-ENC-V or SP-ENC-2-V
Pump Assembly:	PVDF (Kynar®)
Pump length:	39" (1000 mm) or 47" (1200 mm)
Hose:	6 ft. (1,8 m), I.D. 1" (25 mm) Goodyear® Viper 16™
Dispensing Nozzle:	1" (25 mm), PVDF
Flow Meter:	Digital / PVDF totalizer
Barrel Adapter:	Polypropylene
Storage Bracket:	Steel
Max. flow rate:	16 GPM (61 LPM) based on water
Max. pressure:	35 ft. (10,6 m)
Max. viscosity:	300 cps (mPas)
Max. temperature:	175° F (80° C)

### PART NUMBER:

#### 39" (1000 mm) Pump length

**9510** 110-120V package

**9511** 220-240V package

#### 47" (1200 mm) Pump length

**9512** 110-120V package

**9513** 220-240V package



## Pump Package 6 | Light Oils

Engineered to transfer light oils and suitable chemicals. Applications include: light machining oils, transmission fluid, etc.

Motor type:	SP-280P-V or SP-280P-2-V
Pump Assembly:	SS 316
Pump length:	39" (1000 mm) or 47" (1200 mm)
Hose:	6 ft. (1,8 m), I.D. 1" (25 mm) PVC
Dispensing Nozzle:	1" (25 mm), Aluminum
Barrel Adapter:	Stainless Steel
Storage Bracket:	Steel
Max. flow rate:	22 GPM (83 LPM) based on water
Max. pressure:	35 ft. (10,6 m)
Max. viscosity:	1500 cps (mPas)
Max. temperature:	175° F (80° C)

### PART NUMBER:

#### 39" (1000 mm) Pump length

**9410** 110-120V package

**9411** 220-240V package

#### 47" (1200 mm) Pump length

**9412** 110-120V package

**9413** 220-240V package



# Drum Pump Motors

## SP-280P Series



### SHIPPING WT

MODEL	ENCLOSURE	POWER	WATT	V.S.D.	lbs (kg)
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.

NOTE: V.S.D. = Variable Speed Drive



## SP-ENC Series



### SHIPPING WT

MODEL	ENCLOSURE	POWER	WATT	V.S.D.	lbs (kg)
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.

NOTE: V.S.D. = Variable Speed Drive



## SP-400-2



### SHIPPING WT

MODEL	ENCLOSURE	POWER	WATT	V.S.D.	lbs (kg)
SP-400-2	Explosion Proof	220-240V/1/50-60Hz	550	No	24 (11)

ATEX Certification: DEMKO 04 ATEX 136195X II 2 G EEEx de IIA T6



See warning at bottom of page. NOTE: V.S.D. = Variable Speed Drive



## SP-A1



MODEL	CONSUMPTION	MAXIMUM INLET PRESSURE	OUTPUT	SHIPPING WT lbs (kg)
SP-A1	22 CFM @ 90 psi	100 psi	1/2 HP	2.7 lbs
	10.4 L/sec @ 6,2 bar	6,8 bar	370 W	(1,2 kg)



## SP-A2 Series



MODEL	CONSUMPTION	MAXIMUM INLET PRESSURE	OUTPUT	SHIPPING WT lbs (kg)
SP-A2	28 CFM @ 90 psi	100 psi	3/4 HP	3.4 lbs
	13.2 L/sec @ 6,2 bar	6,8 bar	560 W	(1,5 kg)
SP-A2L (trigger lock)	28 CFM @ 90 psi	100 psi	3/4 HP	3.4 lbs
	13.2 L/sec @ 6,2 bar	6,8 bar	560 W	(1,5 kg)



**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 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.



# PVDF Series

**STANDARD's PVDF** pump tube is engineered for transferring highly concentrated and aggressive liquids. Robust PVDF offers excellent durability and chemical resistance.

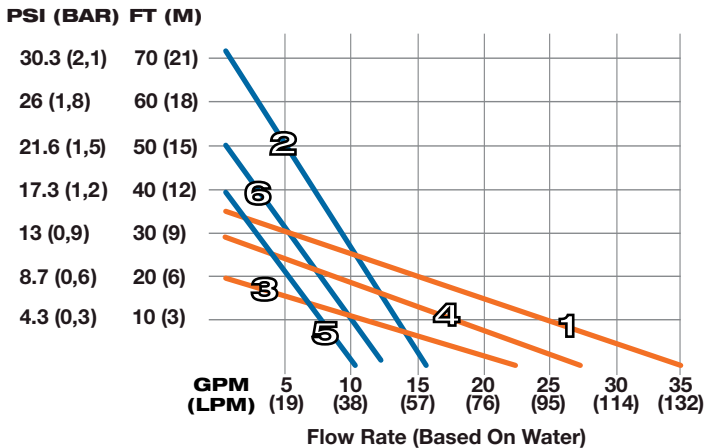
## Common Applications

- Concentrated Nitric Acid
- Sulfuric Acid-66 Baume
- Sodium Hypochlorite
- Hydrofluoric Acid
- Propionic Acid
- Searic Acid

## Technical Specifications

<b>Wetted Parts:</b>	PVDF, Carbon, Hastelloy
<b>Maximum Viscosity:</b>	1500 cps (mPas) (SP-280P, SP-ENC) 750 cps (mPas) (SP-A2, SP-400) 450 cps (mPas) (SP-A1)
<b>Discharge Options:</b>	1" (25 mm) / .75" (19 mm) Hose Barb
<b>Pump Design:</b>	Seal-less / Centrifugal
<b>Maximum Specific Gravity:</b>	1.8
<b>Maximum Temperature:</b>	175° F (80° C)

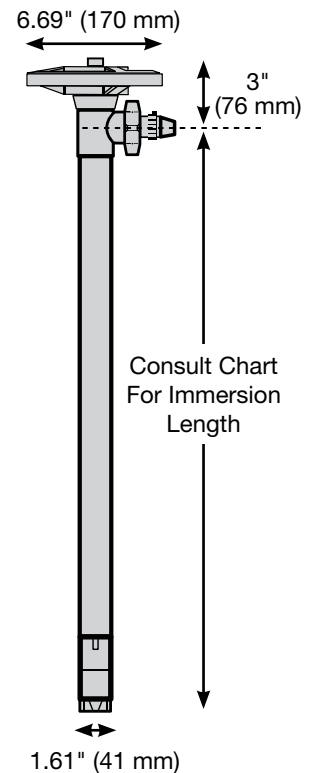
TUBE MODEL	ASSEMBLY	IMMERSION LENGTH	SHAFT	IMPELLER
SP-PVDF-27	PVDF	27" (700 mm)	Hastelloy	High Volume
SP-PVDF-39	PVDF	39" (1000 mm)	Hastelloy	High Volume
SP-PVDF-47	PVDF	47" (1200 mm)	Hastelloy	High Volume
SP-PVDF-50	PVDF	50" (1270 mm)	Hastelloy	High Volume
SP-PVDF-60	PVDF	60" (1500 mm)	Hastelloy	High Volume
SP-PVDF-72	PVDF	72" (1800 mm)	Hastelloy	High Volume
SP-PVDF-HH-27	PVDF	27" (700 mm)	Hastelloy	High Pressure
SP-PVDF-HH-39	PVDF	39" (1000 mm)	Hastelloy	High Pressure
SP-PVDF-HH-47	PVDF	47" (1200 mm)	Hastelloy	High Pressure
SP-PVDF-HH-50	PVDF	50" (1270 mm)	Hastelloy	High Pressure
SP-PVDF-HH-60	PVDF	60" (1500 mm)	Hastelloy	High Pressure
SP-PVDF-HH-72	PVDF	72" (1800 mm)	Hastelloy	High Pressure



### KEY:

- 1 SP-280P, SP-ENC / High Volume Tube
- 2 SP-280P, SP-ENC / High Pressure Tube
- 3 SP-A1 / High Volume Tube
- 4 SP-A2, SP-400 / High Volume Tube
- 5 SP-A1 / High Pressure Tube
- 6 SP-A2, SP-400 / High Pressure Tube

**Warning:** Not suitable for pumping flammable or combustible liquids



# CPVC Series

**STANDARD's CPVC** pump tube is engineered for transferring corrosive chemicals commonly used in the Water Treatment Industry. Robust CPVC offers excellent durability and chemical resistance.

## Common Applications

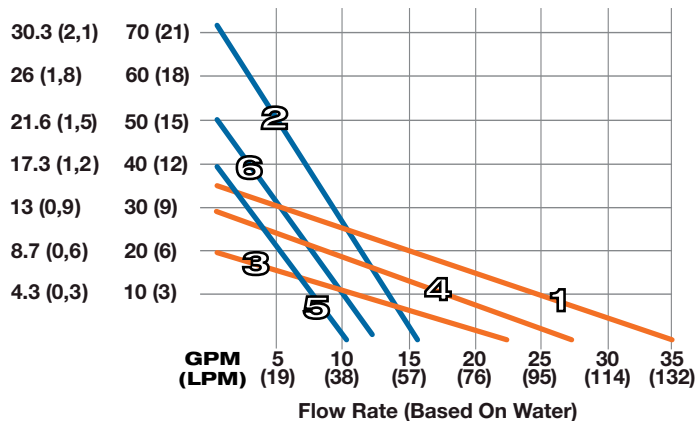
- Sodium Hypochlorite
- Calcium Chloride
- Calcium Hydroxide
- Chlorinated Water
- Potassium Hydroxide
- Sodium Bromide

## Technical Specifications

<b>Wetted Parts:</b>	CPVC, Carbon, Hastelloy
<b>Maximum Viscosity:</b>	1500 cps (mPas) (SP-280P, SP-ENC) 750 cps (mPas) (SP-A2, SP-400) 450 cps (mPas) (SP-A1)
<b>Discharge Options:</b>	1" (25 mm) / .75" (19 mm) Hose Barb
<b>Pump Design:</b>	Seal-less / Centrifugal
<b>Maximum Specific Gravity:</b>	1.8
<b>Maximum Temperature:</b>	190° F (88° C)

TUBE MODEL	ASSEMBLY	IMMERSION LENGTH	SHAFT	IMPELLER
SP-CPVC-27	CPVC	27" (700 mm)	Hastelloy	High Volume
SP-CPVC-39	CPVC	39" (1000 mm)	Hastelloy	High Volume
SP-CPVC-47	CPVC	47" (1200 mm)	Hastelloy	High Volume
SP-CPVC-50	CPVC	50" (1270 mm)	Hastelloy	High Volume
SP-CPVC-60	CPVC	60" (1500 mm)	Hastelloy	High Volume
SP-CPVC-72	CPVC	72" (1800 mm)	Hastelloy	High Volume
SP-CPVC-HH-27	CPVC	27" (700 mm)	Hastelloy	High Pressure
SP-CPVC-HH-39	CPVC	39" (1000 mm)	Hastelloy	High Pressure
SP-CPVC-HH-47	CPVC	47" (1200 mm)	Hastelloy	High Pressure
SP-CPVC-HH-50	CPVC	50" (1270 mm)	Hastelloy	High Pressure
SP-CPVC-HH-60	CPVC	60" (1500 mm)	Hastelloy	High Pressure
SP-CPVC-HH-72	CPVC	72" (1800 mm)	Hastelloy	High Pressure

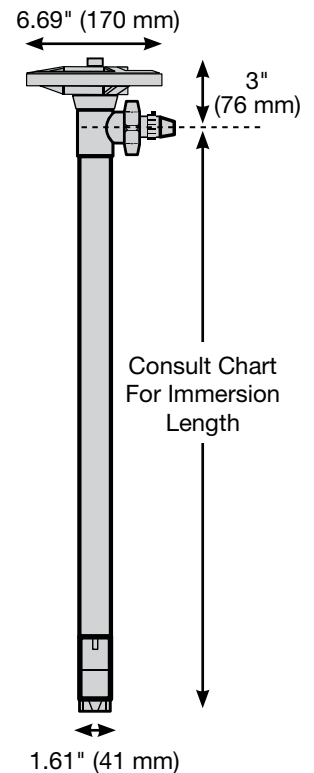
PSI (BAR) FT (M)



### KEY:

- 1 SP-280P, SP-ENC / High Volume Tube
- 2 SP-280P, SP-ENC / High Pressure Tube
- 3 SP-A1 / High Volume Tube
- 4 SP-A2, SP-400 / High Volume Tube
- 5 SP-A1 / High Pressure Tube
- 6 SP-A2, SP-400 / High Pressure Tube

**Warning:** Not suitable for pumping flammable or combustible liquids



# Stainless Steel Series

**STANDARD's Stainless** pump tube is engineered for transferring flammable and combustible liquids as well as light oils and suitable chemicals. Robust Stainless Steel 316 offers excellent strength and durability.

## Common Applications

- Alcohol
- Isopropyl Ether
- Gasoline
- Solvents
- Aqueous Ammonia
- Petroleum Products

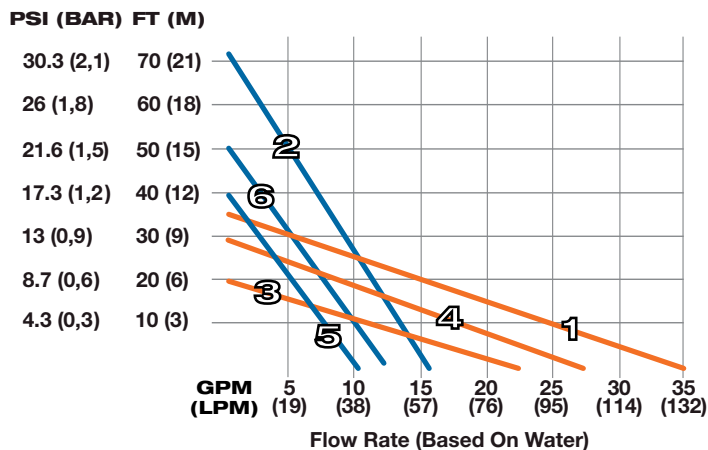
## Technical Specifications



<b>Wetted Parts:</b>	316SS, Carbon, Teflon
<b>Maximum Viscosity:</b>	1500 cps (mPas) (SP-280P, SP-ENC) 750 cps (mPas) (SP-A2, SP-400) 450 cps (mPas) (SP-A1)
<b>Discharge Options:</b>	1" (25 mm) / .75" (19 mm) Hose Barb
<b>Pump Design:</b>	Seal-less / Centrifugal
<b>Maximum Specific Gravity:</b>	1.8
<b>Maximum Temperature:</b>	175° F (80° C)
<b>ATEX Certification:</b>	GT-CERT 00-2009_01 X II 1/2 G c II B T4



TUBE MODEL	ASSEMBLY	IMMERSION LENGTH	SHAFT	IMPELLER
SP-SS-27	Stainless 316	27" (700 mm)	Stainless 316	High Volume
SP-SS-39	Stainless 316	39" (1000 mm)	Stainless 316	High Volume
SP-SS-47	Stainless 316	47" (1200 mm)	Stainless 316	High Volume
SP-SS-60	Stainless 316	60" (1500 mm)	Stainless 316	High Volume
SP-SS-72	Stainless 316	72" (1800 mm)	Stainless 316	High Volume
SP-SS-HH-27	Stainless 316	27" (700 mm)	Stainless 316	High Pressure
SP-SS-HH-39	Stainless 316	39" (1000 mm)	Stainless 316	High Pressure
SP-SS-HH-47	Stainless 316	47" (1200 mm)	Stainless 316	High Pressure
SP-SS-HH-60	Stainless 316	60" (1500 mm)	Stainless 316	High Pressure
SP-SS-HH-72	Stainless 316	72" (1800 mm)	Stainless 316	High Pressure

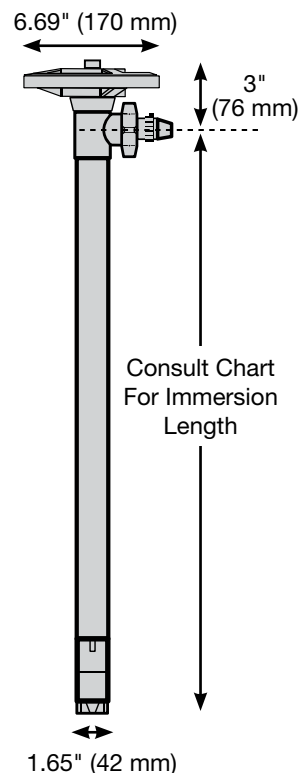


### KEY:

- 1 SP-280P, SP-ENC / High Volume Tube
- 2 SP-280P, SP-ENC / High Pressure Tube
- 3 SP-A1 / High Volume Tube
- 4 SP-A2, SP-400 / High Volume Tube
- 5 SP-A1 / High Pressure Tube
- 6 SP-A2, SP-400 / High Pressure Tube



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





# Polypropylene Series

**STANDARD's Polypropylene** pump tube is engineered for transferring a variety of corrosive liquids. Robust Polypropylene ensures chemical resistance against light to aggressive chemicals.

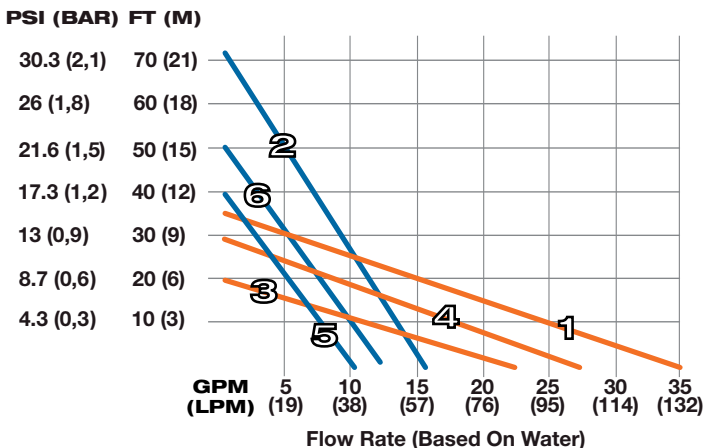
## Common Applications

- Acetic Acid
- Sulfuric Acid
- Hydrochloric (20%)
- Nitric Acid (20%)
- Alkalies
- Ferric Chloride

## Technical Specifications

<b>Wetted Parts:</b>	Polypropylene, Carbon, Hastelloy
<b>Maximum Viscosity:</b>	1500 cps (mPas) (SP-280P, SP-ENC) 750 cps (mPas) (SP-A2, SP-400) 450 cps (mPas) (SP-A1)
<b>Discharge Options:</b>	1" (25 mm) / .75" (19 mm) Hose Barb
<b>Pump Design:</b>	Seal-less / Centrifugal
<b>Maximum Specific Gravity:</b>	1.8
<b>Maximum Temperature:</b>	130° F (55° C)

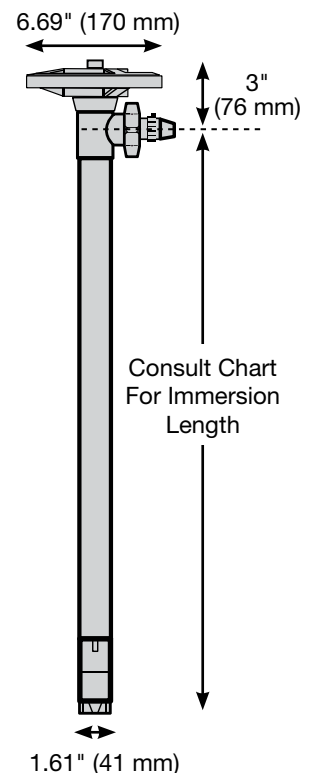
TUBE MODEL	ASSEMBLY	IMMERSION LENGTH	SHAFT	IMPELLER
SP-PP-27	Polypropylene	27" (700 mm)	Hastelloy	High Volume
SP-PP-39	Polypropylene	39" (1000 mm)	Hastelloy	High Volume
SP-PP-47	Polypropylene	47" (1200 mm)	Hastelloy	High Volume
SP-PP-50	Polypropylene	50" (1270 mm)	Hastelloy	High Volume
SP-PP-60	Polypropylene	60" (1500 mm)	Hastelloy	High Volume
SP-PP-72	Polypropylene	72" (1800 mm)	Hastelloy	High Volume
SP-PP-HH-27	Polypropylene	27" (700 mm)	Hastelloy	High Pressure
SP-PP-HH-39	Polypropylene	39" (1000 mm)	Hastelloy	High Pressure
SP-PP-HH-47	Polypropylene	47" (1200 mm)	Hastelloy	High Pressure
SP-PP-HH-50	Polypropylene	50" (1270 mm)	Hastelloy	High Pressure
SP-PP-HH-60	Polypropylene	60" (1500 mm)	Hastelloy	High Pressure
SP-PP-HH-72	Polypropylene	72" (1800 mm)	Hastelloy	High Pressure



### KEY:

- 1 SP-280P, SP-ENC / High Volume Tube
- 2 SP-280P, SP-ENC / High Pressure Tube
- 3 SP-A1 / High Volume Tube
- 4 SP-A2, SP-400 / High Volume Tube
- 5 SP-A1 / High Pressure Tube
- 6 SP-A2, SP-400 / High Pressure Tube

**Warning:** Not suitable for pumping flammable or combustible liquids



# High Temperature Polypropylene Series

**STANDARD's High Temperature Polypropylene (PHT)** pump tube is engineered for transferring high temperature corrosive liquids. Robust Polypropylene ensures chemical resistance and excellent heat deflection properties against light to mildly aggressive chemicals.

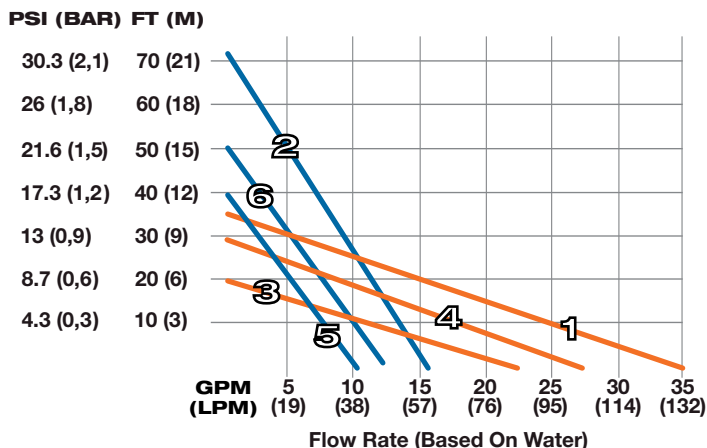
## Common Applications

- Acetic Acid
- Sulfuric Acid
- Hydrochloric (20%)
- Nitric Acid (20%)
- Alkalies
- Ferric Chloride

## Technical Specifications

<b>Wetted Parts:</b>	Polypropylene, Carbon, Hastelloy
<b>Maximum Viscosity:</b>	1500 cps (mPas) (SP-280P, SP-ENC) 750 cps (mPas) (SP-A2, SP-400) 450 cps (mPas) (SP-A1)
<b>Discharge Options:</b>	1" (25 mm) / .75" (19 mm) Hose Barb
<b>Pump Design:</b>	Seal-less / Centrifugal
<b>Maximum Specific Gravity:</b>	1.8
<b>Maximum Temperature:</b>	175° F (80° C)

TUBE MODEL	ASSEMBLY	IMMERSION LENGTH	SHAFT	IMPELLER
SP-PHT-27	Polypropylene	27" (700 mm)	Hastelloy	High Volume
SP-PHT-39	Polypropylene	39" (1000 mm)	Hastelloy	High Volume
SP-PHT-47	Polypropylene	47" (1200 mm)	Hastelloy	High Volume
SP-PHT-50	Polypropylene	50" (1270 mm)	Hastelloy	High Volume
SP-PHT-60	Polypropylene	60" (1500 mm)	Hastelloy	High Volume
SP-PHT-72	Polypropylene	72" (1800 mm)	Hastelloy	High Volume
SP-PHT-HH-27	Polypropylene	27" (700 mm)	Hastelloy	High Pressure
SP-PHT-HH-39	Polypropylene	39" (1000 mm)	Hastelloy	High Pressure
SP-PHT-HH-47	Polypropylene	47" (1200 mm)	Hastelloy	High Pressure
SP-PHT-HH-50	Polypropylene	50" (1270 mm)	Hastelloy	High Pressure
SP-PHT-HH-60	Polypropylene	60" (1500 mm)	Hastelloy	High Pressure
SP-PHT-HH-72	Polypropylene	72" (1800 mm)	Hastelloy	High Pressure

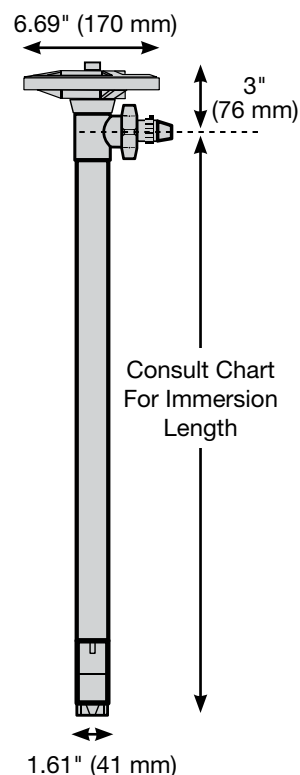


### KEY:

- 1 SP-280P, SP-ENC / High Volume Tube
- 2 SP-280P, SP-ENC / High Pressure Tube
- 3 SP-A1 / High Volume Tube
- 4 SP-A2, SP-400 / High Volume Tube
- 5 SP-A1 / High Pressure Tube
- 6 SP-A2, SP-400 / High Pressure Tube



Warning: Not suitable for pumping flammable or combustible liquids



# Motor & Tube Assembly Detail

Variable speed control

Unique drop-in brush system

Multi certified motors  
meet stringent  
North American and  
European safety standards



Powerful 1.1 hp (825 watt)  
110-120 / 220-240v

Thermal overload or  
low voltage release  
switches

Motor housing provides  
added chemical resistance

Modular  
handwheel design

Optional 1" (25 mm) or  
.75" (19 mm) barbed  
fitting

Thick, robust wall  
construction

TFE guide sleeve  
finned design

Hastelloy C276 drive shaft

Carbon bushing

Impeller/rotor interchangeable for  
high volume/high pressure models



# Accessories For Centrifugal Pumps

## HAND NOZZLES

PART NUMBER	DESCRIPTION	SEAL MATERIAL
9017	<b>Polypropylene</b> – 1" O.D. (25 mm) – hose barb intake	Viton
9026	<b>Stainless 316</b> – 1" O.D. (25 mm) – hose barb intake	PTFE
9028	<b>PVDF</b> – 1" O.D. (25 mm) – hose barb intake  <b>Note:</b> EPDM Seals are available upon request.	Viton
9030	<b>Aluminum</b> – 1" O.D. (25 mm) – hose barb intake	Buna



## DISCHARGE HOSE

PART NUMBER	DESCRIPTION
9029	<b>Clear PVC</b> 1" I.D. x 1.25" O.D. (25 mm x 32 mm) Max temperature: 150°F (66°C) Max operating pressure: 30 psi (2,1 bar)
9032	<b>Clear Braided PVC</b> 1" I.D. x 1.25" O.D. (25 mm x 32 mm) Max temperature: 150°F (66°C) Max operating pressure: 75 psi (5,2 bar)
9034	<b>Goodyear® FABCHEM™ UHMW</b> 1" (25 mm) I.D. x 1.47 O.D. (25 mm x 37 mm) Max temperature: 150°F (66°C) Max operating pressure: 200 psi (14 bar)
9044	<b>Goodyear® VIPER 16™</b> 1" (25 mm) I.D. x 1.45" O.D. (25 mm x 37 mm) Max temperature: 250°F (121°C) Max operating pressure: 200 psi (14 bar)



®Viton is a registered trademark of DuPont Dow Elastomers.

# Accessories For Centrifugal Pumps

## BARREL ADAPTORS / FUME BARRIERS

PART NUMBER	DESCRIPTION
9015	Barrel Adapter – Polypropylene 2" O.D. (51mm)
9002	Barrel Adapter – Stainless 316 2" O.D. (51mm)
9018	Fume Barrier – Polypropylene 2" (51 mm), EPDM Seal
9019	Fume Barrier – Stainless 316 2" (51 mm), EPDM Seal



## SUCTION STRAINERS

PART NUMBER	MATERIAL	MESH SIZE
9011	Polypropylene	.63"x.098" (16x2,5 mm)
9012	Stainless 316	.58"x.051" (14,7x1,3 mm)
9043	PVDF (Kynar®)	.63"x.098" (16x2,5 mm)



## QUICK DISCONNECT

PART NUMBER	DESCRIPTION
125A100C	Polypropylene – 1.25" thread x 1" barb (32 mm x 25 mm)



## WALL BRACKET

PART NUMBER	DESCRIPTION
9006	Stainless Steel Wall Bracket Is Recommended For Pump Storage



# PROGRESSIVE CAVITY PUMPS





# SP-700SR Progressive Cavity Series

**STANDARD's 700SR** series pumps are engineered to transfer viscous materials from drums and ToteTanks®. The progressive cavity design delivers a continuous flow of material with little product degradation. Maximum viscosity is **25,000 cps (mPas)**.



## Common Applications

- Polymers
- Adhesives
- Paints
- Resins
- Oils & Greases
- Varnishes

## Technical Data

### Design:

Progressive Cavity / Positive Displacement

### Maximum Viscosity:

- 751 & 752 Series
- 1851 Series

25,000 cps (mPas)

10,000 cps (mPas)

### Discharge Port:

1.5" (38 mm) Hose Barb

Optional 1.25" (32 mm)

### Stator Materials:

Teflon, Viton or Buna

### Mechanical Seal:

SiC/Viton/SiC

### Immersion Lengths:

27" (700 mm)

39" (1000 mm)

47" (1200 mm)

*Please add 5" (127 mm) to the immersion length of pump for the 752 series pumps.*

### Wetted Material:

Tube & Rotor Assembly: 316 Stainless Steel

Stator Material: Teflon, Viton, or Buna

### Motor Drives:

ODP, TEFC & Explosion Proof

### Fittings:

Threaded design enables operator to disassemble pump quickly for cleaning, maintenance and inspection

### Maximum Flow Rate:

- 1851 Series
- 751 & 752 Series

12 GPM (45 LPM) *based on water*

7 GPM (26 LPM) *based on water*

### Maximum Discharge Pressure:

- 751 & 1851 Series
- 752 Series

87 psi (6 bar)

174 psi (12 bar)

### Maximum Temperature:

- Teflon & Viton Stator
- Buna Stator

300° F (148° C)

185° F (85° C)

## Benefits

- Easy To Clean & Maintain
- Continuous Flow
- Threaded Components
- Interchangeable Motor Drives
- Low Shearing Properties

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

**Note:** This pump is intended for intermittent duty use only.

## Motor Drives



**SP-280 Series**

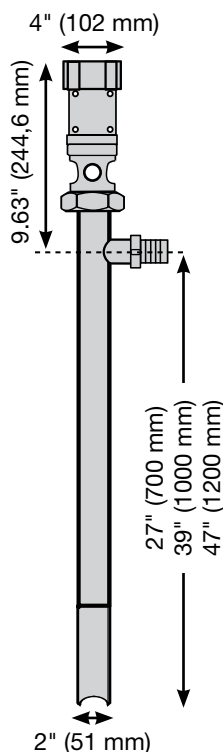


**SP-ENC Series**



**SP-400-2**

**Note:** Refer to pg. 8 for motor information



# SP-700DD Progressive Cavity Series

**STANDARD's 700DD** series pumps are engineered to transfer viscous materials from drums and ToteTanks®. The progressive cavity design delivers a continuous, smooth flow of material with little product degradation. Maximum viscosity is **100,000 cps (mPas)**.



## Common Applications

- Polymers
- Adhesives
- Paints
- Resins
- Oils & Greases
- Varnishes

## 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) Hose Barb  
Optional 1.25" (32 mm)

**Stator Materials:**

Teflon, Viton or Buna

**Mechanical Seal:**

SiC/Viton/SiC

**Immersion Lengths:**

27" (700 mm)  
39" (1000 mm)  
47" (1200 mm)

*Please add 5" (127 mm) to the immersion length of pump for the 752 series pumps*

**Wetted Material:**

Tube & Rotor Assembly: 316 Stainless Steel

Stator Material: Teflon, Viton or Buna

**Motor Drives:**

TEFC & Air

**Fittings:**

Threaded 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)

**Maximum Temperature:**

- Teflon & Viton Stator 300° F (148° C)
- Buna Stator 185° F (85° C)

## Benefits

- Easy To Clean & Maintain
- Continuous Flow
- Threaded Components
- Interchangeable Motor Drives
- Low Shearing Properties

## Motor Drives

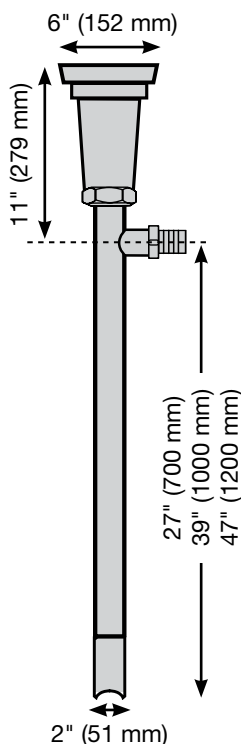


**TEFC  
Electric Motor**



**Pneumatic Motor**

**Note:** Refer to pg. 20 for motor information



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

# SP-700DD Pump Motors



## Electric Motor 190/380 // 230/460 / 3 / 50-60 Hz


MODEL	HP	KW	RPM	ENCLOSURE	FRAME	FLANGE
SP-500	.75	,55	750-900	TEFC (IP55)	90LC	B14/C140
SP-510	1.0	,75	750-900	TEFC (IP55)	100LC	B14/C160
SP-520	1.5	1,1	750-900	TEFC (IP55)	100LC	B14/C160
0017	Motor wiring for 230V/3/50-60 Hz.					



## Pneumatic Motor

MODEL	HP	KW	RPM	AIR CONSUMPTION	FRAME	Air CONN. Inch (mm)
SP-A4	2.0	1,5	300-900	80 CFM @ 100 psi 37 L/Sec @ 7 bar	IEC#72/D71	.25" (6,3)
SP-A6	4.0	3,0	300-900	130 CFM @ 100 psi 65 L/Sec @ 7 bar	IEC#72/D80	.5" (12,7)
SP-A8	5.0	3,7	300-900	170 CFM @ 100 psi 80 L/Sec @ 7 bar	IEC#72/D90	.5" (12,7)

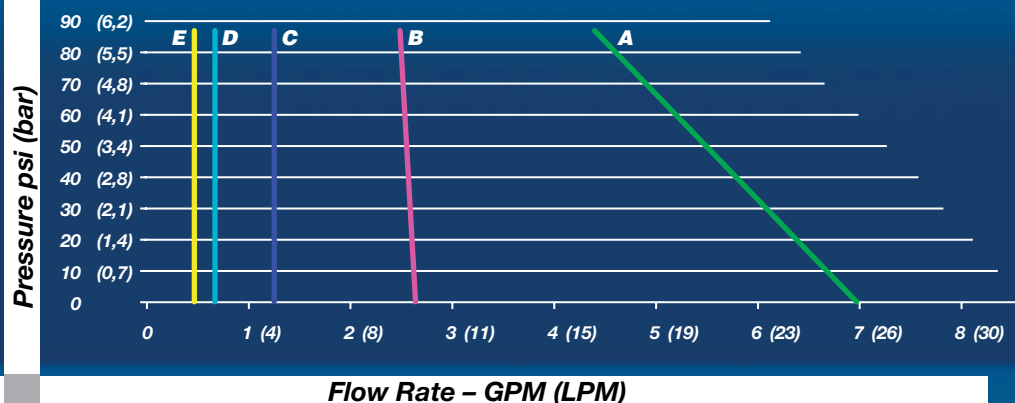
**Note:** Optimal pneumatic motor speed is 900 RPM. Failure to comply may result in pump damage or premature failure.

 **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 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.



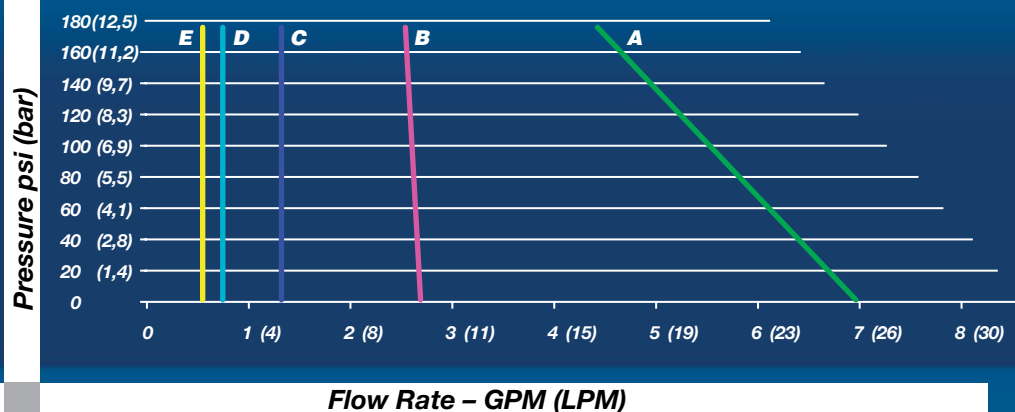
# Performance Curves

## 751 Series Pumps



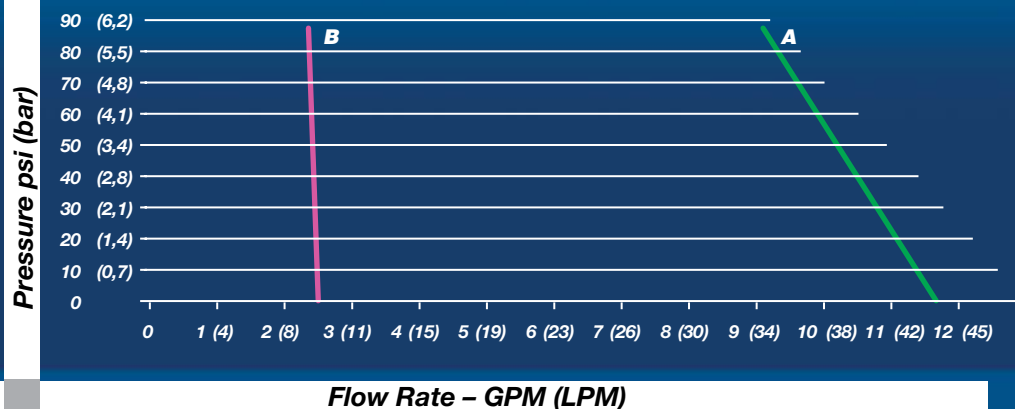
	Viscosity cps (mPas)	Electric HP (KW)	Air HP (KW)
A	1	.75 (.55)	2 (1.5)
B	10,000	.75 (.55)	2 (1.5)
C	30,000	1 (.75)	4 (3)
D	60,000	1 (.75)	4 (3)
E	100,000	1.5 (1.1)	5 (3.7)

## 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

### DESCRIPTION

Malleable iron two bolt clamp.  
Gripping ridges, reinforced lugs.  
Hose size from 1-48/64" to 2-3/64" (44,50 mm to 52 mm).  
Torque Value: 27 ft. lbs. (3,75 kg/m) for proper attachment.



## RYCO TRANSFER HOSE

### PART NUMBER

9039

### DESCRIPTION

Recommended For: High pressure hydraulic oil lines. Tube: Black, oil resistant synthetic rubber. (Nitrile). Reinforcement: One braid of high tensile steel wire. Cover: Black, oil and abrasion resistant synthetic rubber. Flame Resistance: Meets Flame Resistant Designation "GL" Germanischer Lloyd. Meets Flame Resistant Designation "U.S. MSHA" of the US Department of Labor, Mine Safety and Health Administration.



Nom. ID DIN/in/Dash	Nom. OD mm	Bend Radius mm	Vacuum in/mm	Weight kg/m	Temp Range F°/C°
40 /1.5 /-24	50,5	500	27/685,8	1,59	-30 to 220/-34 to 104

**Max Dynamic WP**  
psi/bar  
725/50

**Max Static WP**  
psi/bar  
970/67

**Min Burst Pressure**  
psi/bar  
2900/200

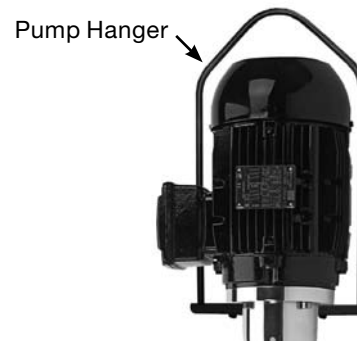
## PUMP HANGER

### PART NUMBER

743

### DESCRIPTION

Pump Hangar provides a convenient solution  
for attaching the pump to a hoist system



## QUICK DISCONNECT

### PART NUMBER

150DSS/150ESS

### DESCRIPTION

1.5" (38 mm), SS316 cam lever couplings,  
BUNA N gaskets, maximum pressure: 150 psi (10,5 bar).



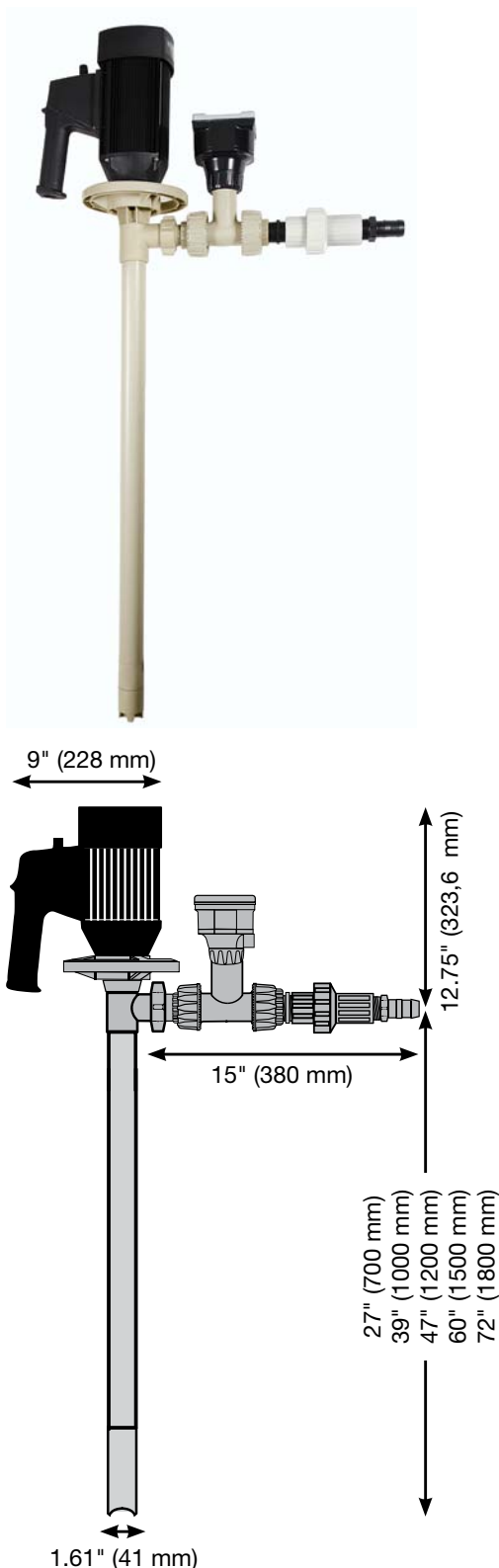
# METERING SYSTEMS





# Batch Control System

**STANDARD's Batch Control System (BCS)** is engineered to control, measure and dispense preset volumes of liquid from drums, IBC's, plating tanks or any large storage vessel. The BCS can be used in an industry where batching, chemical packaging or dilution is required to be accurate and efficient. Simply dial in the desired volume, press ENTER and the BCS delivers a preset volume of liquid virtually hands-free.



## Common Applications

- Chemical Packaging
- Chemistry For Plating Tanks
- Water Treatment Chemicals
- Chemical Delivery

## Features

- Turbine Paddle Wheel Design
- Measures: Gallons, Liters, Cubic Meters
- Re-settable Totalizer
- User Friendly "In Field" Calibration

## Technical Data

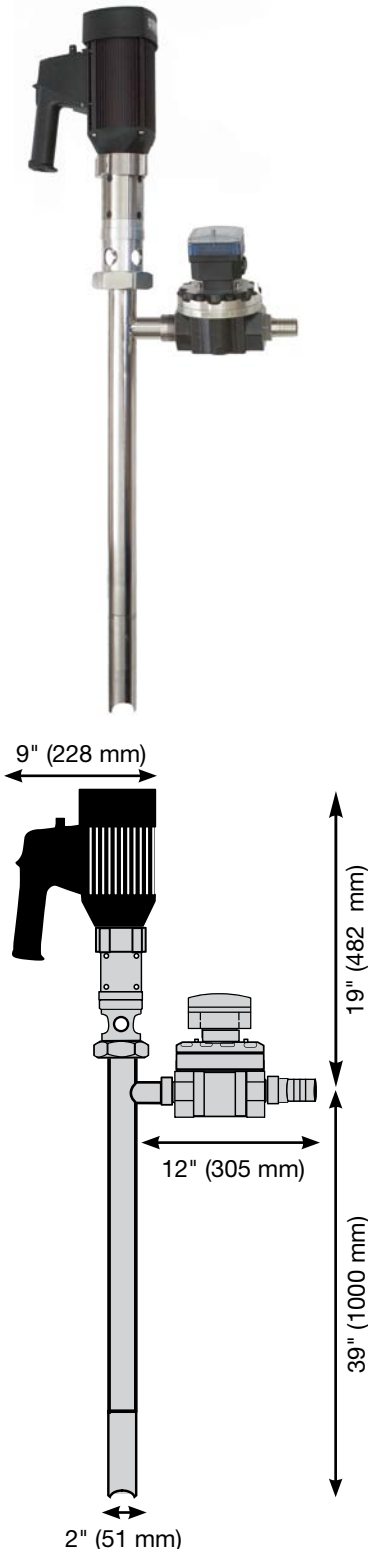
<b>Available Wetted Parts:</b>	Polypropylene, PVDF, Ceramic & Halar
<b>Motor Drive:</b>	Open Drip Proof (IP44) or TEFC (IP54) (110-120 / 220-240v)
<b>Discharge Fitting:</b>	1" (25 mm) Hose Barb
<b>Pumping Principle:</b>	Centrifugal / Seal-less
<b>Flow Range:</b>	1.17 GPM (4,4 LPM) – 27 GPM (102,2 LPM)
<b>Maximum Viscosity:</b>	300 cps (mPas)
<b>Immersion Length:</b>	27" (700 mm), 39" (1000 mm), 47" (1200 mm) 60" (1500 mm), 72" (1800 mm)
<b>Accuracy:</b>	+/- 0.61 % of Full Scale +/- 1% of Reading
<b>Maximum Temperature:</b>	Polypropylene 130° F (55° C) Stainless & PVDF 175° F (80° C)



Controller Display

# Batch Control System (High Viscosity)

**STANDARD's Batch Control System (BCS)** is engineered for high precision dosing and filling operations containing viscous materials. The Batch Control System is constructed with robust materials and a choice of motor drives, providing versatility and safety for the most challenging applications. Simply dial in desired volume, press ENTER, and the BCS delivers a preset volume of material virtually hands-free.



## Common Applications

- Polymers
- Oils
- Varnishes (Non-Flammable)
- Paints
- Resins
- Petroleum Products

## Features

- Oval Gear Design
- Measures: Gallons, Liters, Cubic Meters
- Re-settable Totalizer
- User Friendly "In Field" Calibration

## Technical Data

<b>Wetted Parts:</b>	316SS / PPS / Aluminum / Teflon
<b>Motor Drive:</b>	Open Drip Proof (IP44) or TEFC (IP54)
<b>Discharge Fitting:</b>	1.5" (38 mm) Hose Barb
<b>Mechanical Seal:</b>	SiC/Viton/SiC
<b>Pumping Principle:</b>	Progressive Cavity – Positive Displacement
<b>Max. Discharge Pressure:</b>	87 psi (6 bar)
<b>Flow Range:</b>	2.6 GPM (9,8 LPM) – 12 GPM (45 LPM) based on water
<b>System Weight:</b>	44 Lbs (20 Kg)
<b>Immersion Length:</b>	39" (1000 mm)
<b>Viscosity Range:</b>	<b>1-10,000 cps (mPas)</b> P/N: 7310 (110v), 7311 (220v) P/N: 7312 (110v), 7313 (220v) <b>10,000-25,000 cps (mPas)</b> P/N: 7314 (110v), 7315 (220v) P/N: 7316 (110v), 7317 (220v)
<b>Metering Principle:</b>	Oval Gear
<b>Accuracy:</b>	+/- 0.63 % of Full Scale +/- 1% of Reading
<b>Maximum Temperature:</b>	176° F (80° C)



Controller Display

# Turbine Flow Meters

**STANDARD's Flow Meters** address a broad scope of applications ranging from inert solutions to aggressive chemicals. These meters utilize a proven paddle wheel design and are available in a variety of sizes and materials. Meters are available in three configurations: Kits for Drum Pumps, Barb Connections, or Permanent Installation.



## Common Applications

- Pump Monitoring
- Gravity Feed Applications From Tanks
- Continuous Flow Measurement
- Adding Chemistry to Plating Tanks
- Chemical Packaging
- Blending Agricultural Products
- Adding Colors and Fragrances

## Features

- Measures Flow Rate and Volume
- IP65 Enclosure
- Re-settable Totalizer
- Battery Status Indicator
- User Friendly "In Field" Calibration
- EE Prom Electronics
- Two Line Alphanumeric Display Shows Flow Rate & Total Flow Together

## Technical Data



Paddlewheel Technology

<b>Available Sizes:</b>	Polypropylene & PVDF 0.5" (13 mm) – 1.5" (38 mm) SS316 0.75" (19 mm) – 1.25" (32 mm)
<b>Accuracy:</b>	+/- 0.61% of Full Scale +/- 1% of Reading
<b>Available Materials:</b>	Polypropylene, PVDF and SS316
<b>Maximum Viscosity:</b>	300 cps (mPas)
<b>Units of Measure:</b>	Gallons, Liters, Cubic Meters
<b>Temperature Range:</b>	Polypropylene -4°–176° F (-20°–80° C) Stainless & PVDF -22°–212° F (-30°–100° C)
<b>Metering Principle:</b>	Turbine (Paddle Wheel)
<b>Max. Operating Pressure:</b>	150 psi (10,5 bar) @ 70° F (20° C)
<b>Flow Range:</b>	0.5" (13 mm): 0.42 GPM (1,6 LPM) – 22.4 GPM (84,8 LPM) 0.75" (19 mm): 0.75 GPM (2,8 LPM) – 39.8 GPM (150,7 LPM) 1.0" (25 mm): 1.17 GPM (4,4 LPM) – 62.2 GPM (235,4 LPM) 1.25" (32 mm): 1.91 GPM (7,2 LPM) – 102 GPM (386,1 LPM) 1.5" (38 mm): 2.99 GPM (11,3 LPM) – 159.3 GPM (603 LPM)



# Oval Gear Flow Meters

**STANDARD's** positive displacement flow meters are suitable for measuring a broad scope of materials ranging from water-like liquid to viscous materials. The meter utilizes proven oval gear technology to accurately measure flow rate and volume dispensed. The meter housing is available in Aluminum (with PPS gears) or Stainless Steel (with Stainless gears).



## Common Applications

- Pump Monitoring
- Filling Applications
- Viscous Materials
- Polymers
- Paints
- Resins

## Features

- Measures Flow Rate and Volume
- IP65 Enclosure
- User Friendly "In Field" Calibration
- EE Prom Electronics
- Two Line Alphanumeric 12 Digit Display Shows Flow Rate & Total Flow Together

## Technical Data

<b>Available Sizes:</b>	0.5" (13 mm) – 2" (51 mm)
<b>Shaft:</b>	316SS
<b>O-Ring:</b>	NBR (Nitrile)
<b>Ports:</b>	FNPT Inlet and Outlet Connections
<b>Accuracy:</b>	+/- 0.63% of Full Scale +/- 1% of Reading

### Available Housing

**Materials:** Aluminum (w/ PPS Gears) and SS316 (w/ SS316 Gears)

**Maximum Viscosity:** 100,000 cps (mPas)

**Units of Measure:** Gallons, Liters, Cubic Meters

**Temperature Range:** Aluminum 176° F (80° C)  
SS316 248° F (120° C)

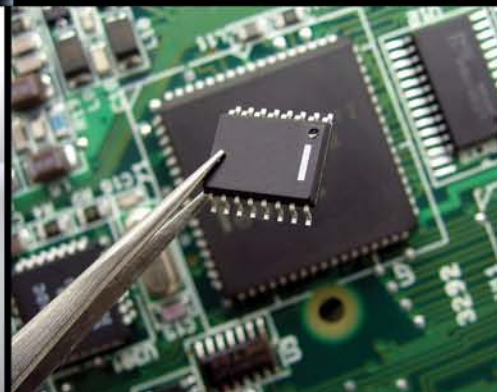
**Metering Principle:** Oval Gear

**Maximum Operating Pressure:** 800 psi (55 bar)

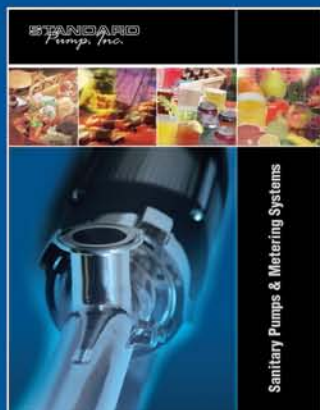
**Flow Range:**  
0.5" (13 mm): 0.26 GPM (1 LPM) – 7.93 GPM (30 LPM)  
1.0" (25 mm): 1.6 GPM (6 LPM) – 31.7 GPM (120 LPM)  
1.5" (38 mm): 2.6 GPM (10 LPM) – 66 GPM (250 LPM)  
2" (51 mm): 4 GPM (15 LPM) – 92 GPM (350 LPM)

**Power Source:** 110 / 230 VAC

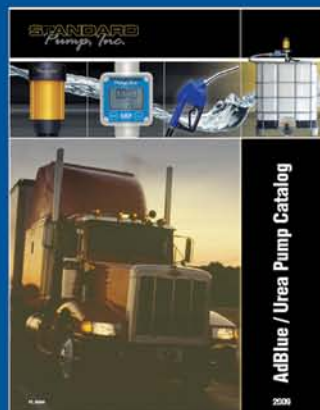




#### Additional Markets Served:



Sanitary Drum & Container Pumps



DEF / Adblue Pumps

Distributed By:



**STANDARD**  
*Pump, Inc.*

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Auburn, GA 30011 USA

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