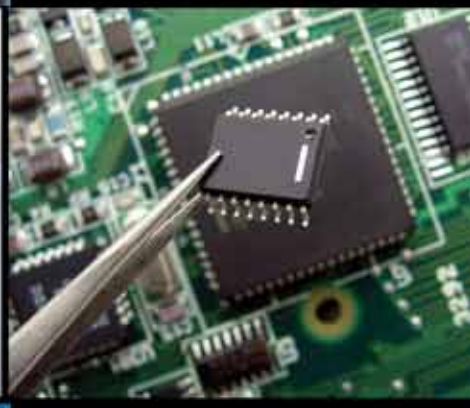
STANDARD Pump, Inc.



Industrial Pumps & Metering Systems

P/N: IPC2012A

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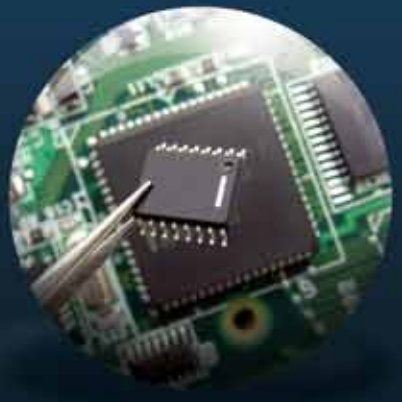


Applications

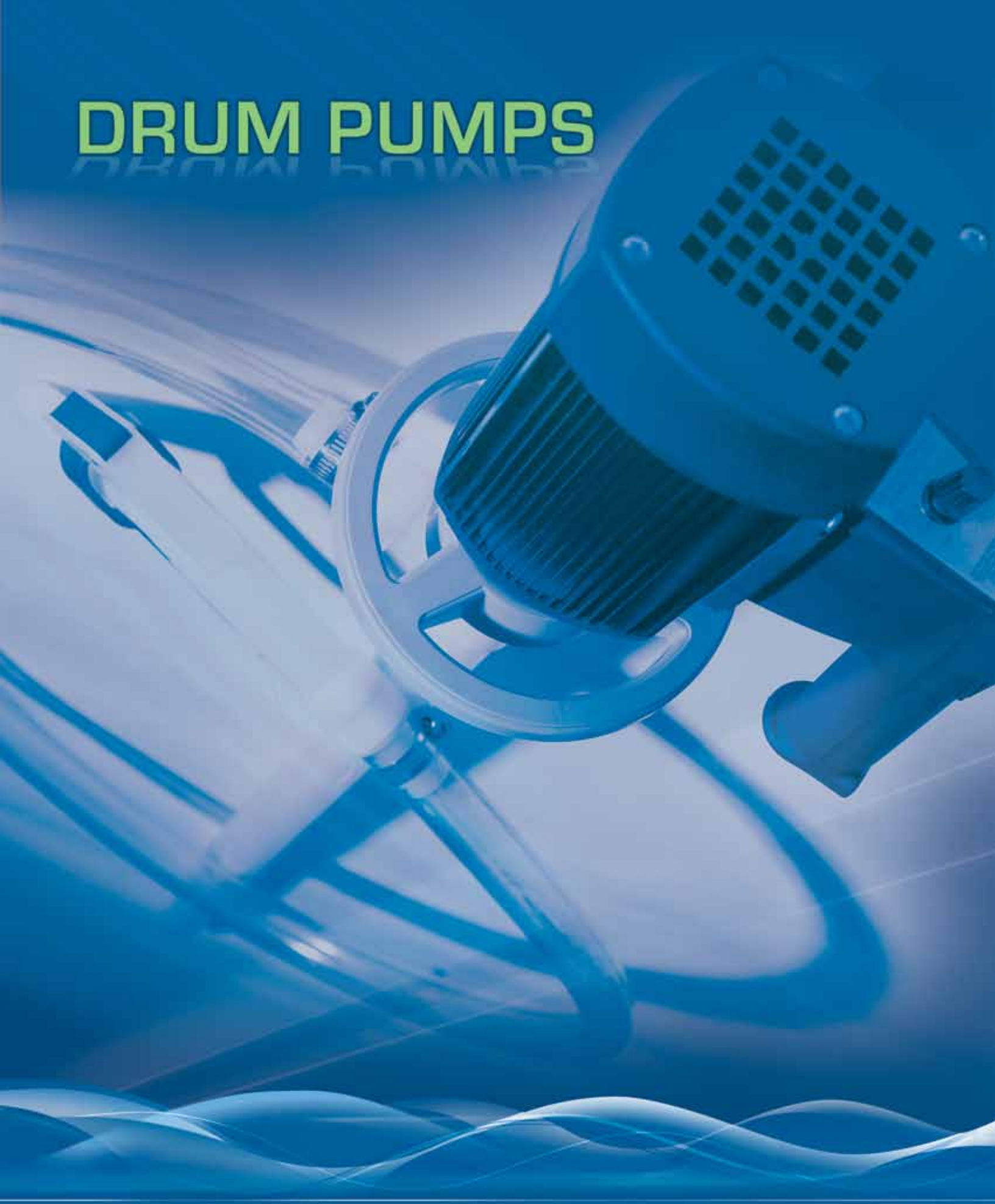
Drums

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:	Open Drip Proof (IP 44)
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. 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:	Open Drip Proof (IP 44)
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. 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:	TEFC (IP 54)
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. 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 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:	Open Drip Proof (IP 44)
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. 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:	TEFC (IP 54)
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. 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 | Mineral Acids

Engineered to transfer mineral acids and suitable chemicals. Applications include: Nitric Acid (less than 60%) and Citric Acid.

Motor Type:	Open Drip Proof (IP 44)
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), SS316
Barrel Adapter:	Stainless Steel
Storage Bracket:	Steel
Max. Flow Rate:	21 GPM (79 LPM) *based on water*
Max. Viscosity:	1500 cps (mPas)
Max. Temperature:	175° F (80° C)

PART NUMBER:

39" (1000 mm) Pump Length	
9414	110-120V Package
9415	220-240V Package
47" (1200 mm) Pump Length	
9416	110-120V Package
9417	220-240V Package

Note: Special configurations are available upon request. Please consult factory.

Pump Packages Continued

Pump Package 7 | Non-Corrosive Liquids

Engineered to transfer light oils, automotive fluids and lubricants. Applications include: light machining oils, hydraulic fluid, motor oil, antifreeze, lubricating oil.

Motor Type:	Open Drip Proof (IP 44)
Pump Assembly:	Aluminum
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. Viscosity:	1500 cps (mPas)
Max. Temperature:	175° F (80° C)

PART NUMBER:

39" (1000 mm) Pump Length	
9460	110-120V Package
9461	220-240V Package
47" (1200 mm) Pump Length	
9462	110-120V Package
9463	220-240V Package

Pump Package 8 | Flammable and Combustible Liquids

Explosion Proof Drum Pump (AIR) is a safe solution for transferring highly flammable/combustible liquids and meets the stringent safety requirements of the Chemical Processing Industry. Applications include: Alcohol, Isopropyl Ether, Gasoline, Solvents, Aqueous Ammonia, Petroleum Products, Xylene, Toluene.

Motor Type:	AIR
Pump Assembly:	SS316
Pump Length:	39" (1000 mm) or 47" (1200 mm)
Hose:	6 ft. (1,8m), I.D. 1" (25 mm) Solvent Hose
Dispensing Nozzle:	1" (25mm) SS316
Barrel Adapter:	Stainless Steel
Storage Bracket:	Steel
Max. Flow Rate:	17 gpm (64 lpm) *based on water*
Max. Viscosity:	750 cps (mPas)
Max. Temperature:	175° F (80° C)

PART NUMBER:

39" (1000 mm) Pump Length	
9604	1/2 HP Air Package
9605	3/4 HP Air Package
47" (1200 mm) Pump Length	
9606	1/2 HP Air Package
9607	3/4 HP Air Package

Pump Package 9 | Flammable & Combustible Liquids

Explosion Proof Drum Pump is a safe solution for transferring highly flammable/combustible liquids and meets the stringent safety requirements of the Chemical Processing Industry. Applications include: Alcohol, Isopropyl Ether, Gasoline, Solvents, Aqueous Ammonia, Petroleum Products, Xylene, Toluene.

Motor Type:	EXP (IP 54)
Pump Assembly:	SS316
Pump Length:	39" (1000 mm) or 47" (1200 mm)
Hose:	6 ft. (1,8m), I.D. 1" (25 mm) Solvent Hose
Dispensing Nozzle:	1" (25mm) SS316
Barrel Adapter:	Stainless Steel
Storage Bracket:	Steel
Max. Flow Rate:	18 gpm (68 lpm) *based on water*
Max. Viscosity:	750 cps (mPas)
Max. Temperature:	175° F (80° C)

PART NUMBER:

39" (1000 mm) Pump Length	
9610	110-120V Package
9611	220-240V Package
47" (1200 mm) Pump Length	
9612	110-120V Package
9613	220-240V Package

Note: Special configurations are available upon request. Please consult factory.

Drum Pump Motors

SP-280P Series

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

⚠ Warning: Not suitable for pumping flammable or combustible liquids.

⚠ Warning: Not recommended for use with the SP-700SR Series pump.

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

SP-ENC Series

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

MODEL	ENCLOSURE	CERTIFICATION	POWER	WATT	V.S.D.	SHIPPING WT lbs (kg)
SP-410EX	Explosion Proof	CSA	110-120V/1/50-60Hz	230	No	17 (7,7)
SP-420EX	Explosion Proof	ATEX CE	220-240V/1/50-60Hz	600	No	17 (7,7)

ATEX Certification: II 2G Ex d IIA T4 FTZU 12 ATEX 0225X

⚠ See warning at bottom of page.

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

NOTE: Explosion proof motor regulations require that motors be returned to the manufacturer for repair.

SP-A1

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

⚠ See warning at bottom of page.

⚠ Warning: Not recommended for use with the SP-700SR Series pump.

SP-A2 Series

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

⚠ See warning at bottom of page.

⚠ Warning: Not recommended for use with the SP-700SR Series pump.

⚠ 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.

Polypropylene Series

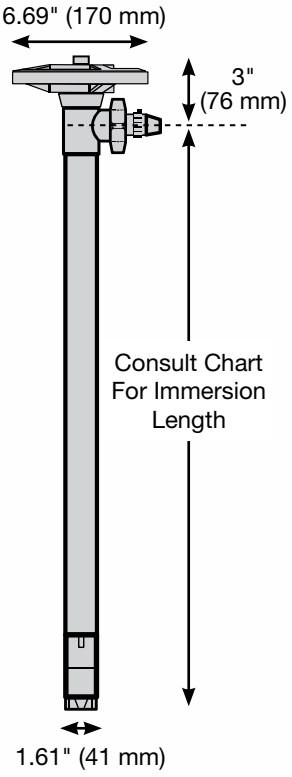
STANDARD's Polypropylene pump tube is engineered for transferring a variety of corrosive liquids. Robust Polypropylene ensures chemical resistance against light to aggressive chemicals.

Common Applications

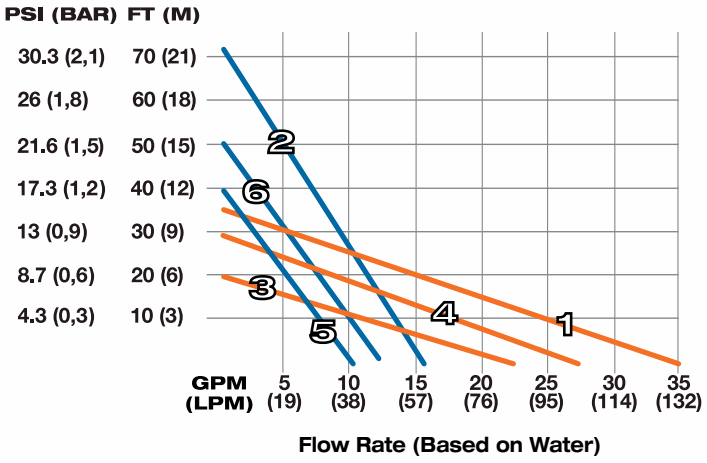
- Acetic Acid
- Sulfuric Acid
- Hydrochloric (20%)
- Nitric Acid (20%)
- Alkalis
- Ferric Chloride

Technical Specifications

Wetted Parts:	Polypropylene, Carbon, Hastelloy
Maximum Viscosity:	
SP-280P & SP-ENC	1500 cps (mPas)
SP-A2	750 cps (mPas)
SP-A1	450 cps (mPas)
Discharge Options:	1" (25 mm) /.75" (19 mm) Hose Barb
Immersion Lengths:	27" (700 mm), 39" (1000 mm), 47" (1200 mm) 60" (1500 mm) & 72" (1800 mm)
Pump Design:	Seal-less / Centrifugal
Maximum Specific Gravity:	1.8*
Maximum Temperature:	130° F (55° C)



Flow Curves



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 / High Volume Tube**
5. **SP-A1 / High Pressure Tube**
6. **SP-A2 / High Pressure Tube**

Warning: Pump not suitable for pumping flammable liquids.

***Note:** Maximum Specific Gravity is 1.8 when used in conjunction with 825 watt motor.

CPVC Series

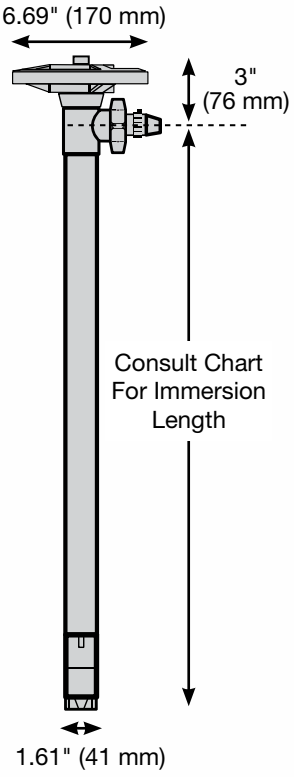
STANDARD's CPVC pump tube is engineered for transferring corrosive chemicals commonly used in the Water Treatment Industry. Robust CPVC offers excellent durability and chemical resistance.

Common Applications

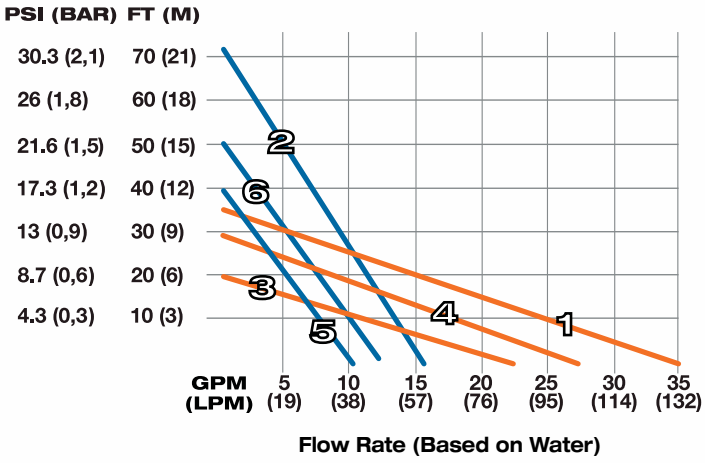
- Sodium Hypochlorite
- Calcium Chloride
- Calcium Hydroxide
- Chlorinated Water
- Potassium Hydroxide
- Sodium Bromide

Technical Specifications

Wetted Parts:	CPVC, Carbon, Hastelloy
Maximum Viscosity:	
SP-280P & SP-ENC	1500 cps (mPas)
SP-A2	750 cps (mPas)
SP-A1	450 cps (mPas)
Discharge Options:	1" (25 mm) /.75" (19 mm) Hose Barb
Immersion Lengths:	27" (700 mm), 39" (1000 mm), 47" (1200 mm) 60" (1500 mm) & 72" (1800 mm)
Pump Design:	Seal-less / Centrifugal
Maximum Specific Gravity:	1.8*
Maximum Temperature:	190° F (88° C)



Flow Curves



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 / High Volume Tube**
5. **SP-A1 / High Pressure Tube**
6. **SP-A2 / High Pressure Tube**

Warning: Pump not suitable for pumping flammable liquids.

***Note:** Maximum Specific Gravity is 1.8 when used in conjunction with 825 watt motor.

Stainless Steel Series

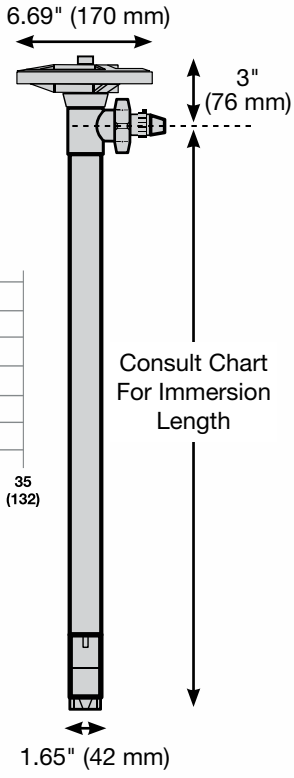
STANDARD's Stainless pump tube is engineered for transferring flammable and combustible liquids as well as light oils and suitable chemicals. Robust Stainless Steel 316 offers excellent strength and durability.

Common Applications

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

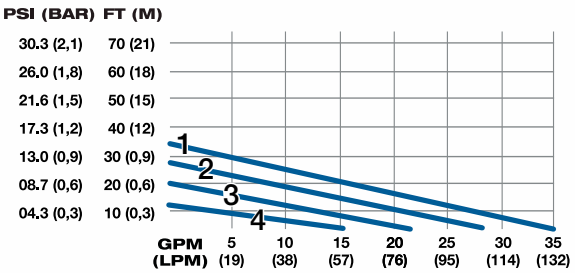
Technical Specifications

Wetted Parts:	316SS, Carbon, PTFE
Maximum Viscosity:	
SP-280P & SP-ENC	1500 cps (mPas)
SP-420EX & SP-A2	750 cps (mPas)
SP-A1	450 cps (mPas)
SP-410EX	200 cps (mPas)
Discharge Options:	1" (25 mm) /.75" (19 mm) Hose Barb
Immersion Lengths:	27" (700 mm), 39" (1000 mm), 47" (1200 mm) 60" (1500 mm) & 72" (1800 mm)
Pump Design:	Seal-less / Centrifugal
Maximum Specific Gravity:	1.8*
Maximum Temperature:	175° F (80° C)
ATEX Certification:	GT-CERT 00-2009_01 X II 1/2 G c II B T4



Flow Curves

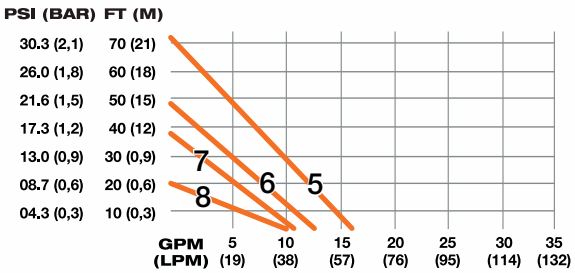
High Volume Pumps



KEY:

1 SP-280P, SP-ENC / High Volume Tube
2 SP-420EX, SP-A2 / High Volume Tube
3 SP-A1 / High Volume Tube
4 SP-410EX / High Volume Tube

High Pressure Pumps



KEY:

5 SP-280P, SP-ENC / High Pressure Tube
6 SP-420EX, SP-A2 / High Pressure Tube
7 SP-A1 / High Pressure Tube
8 SP-410EX / High Pressure Tub

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

***Note:** Maximum Specific Gravity is 1.8 when used in conjunction with 825 watt motor.

PVDF (Kynar®) Series

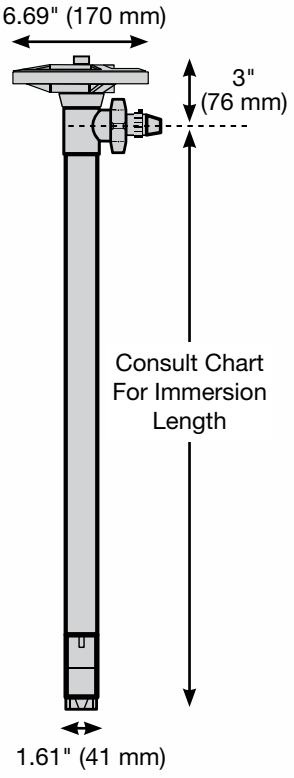
STANDARD's PVDF pump tube is engineered for transferring highly concentrated and aggressive liquids. Robust PVDF offers excellent durability and chemical resistance.

Common Applications

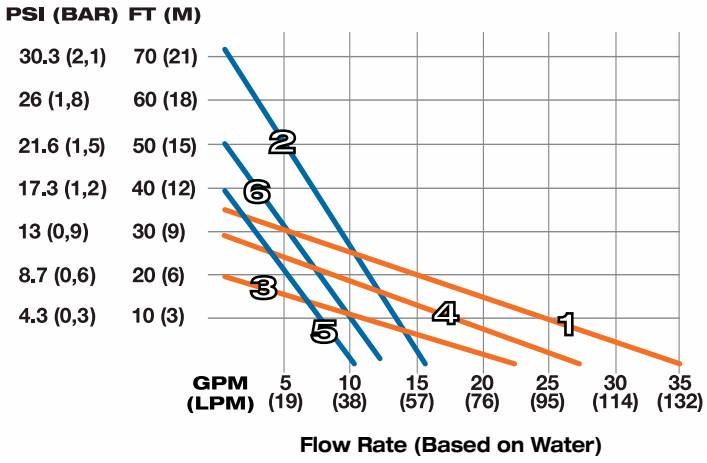
- Concentrated Nitric Acid
- Sulfuric Acid-66 Baume
- Sodium Hypochlorite
- Hydrofluoric Acid
- Propionic Acid
- Searic Acid

Technical Specifications

Wetted Parts:	PVDF, Carbon, Hastelloy
Maximum Viscosity:	
SP-280P & SP-ENC	1500 cps (mPas)
SP-A2	750 cps (mPas)
SP-A1	450 cps (mPas)
Discharge Options:	1" (25 mm) /.75" (19 mm) Hose Barb
Immersion Lengths:	27" (700 mm), 39" (1000 mm), 47" (1200 mm) 60" (1500 mm) & 72" (1800 mm)
Pump Design:	Seal-less / Centrifugal
Maximum Specific Gravity:	1.8*
Maximum Temperature:	175° F (80° C)



Flow Curves



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 / High Volume Tube**
5. **SP-A1 / High Pressure Tube**
6. **SP-A2 / High Pressure Tube**

Warning: Pump not suitable for pumping flammable liquids.

***Note:** Maximum Specific Gravity is 1.8 when used in conjunction with 825 watt motor.

High Temperature Polypropylene Series

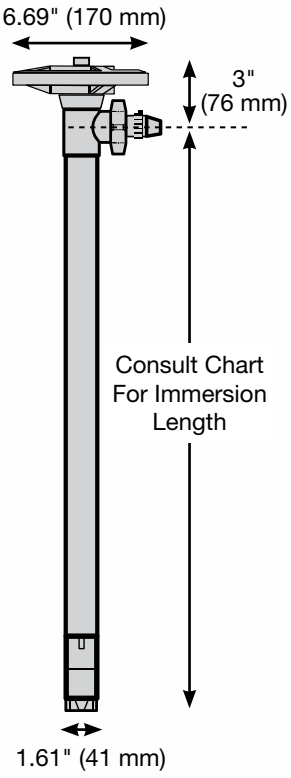
STANDARD's High Temperature Polypropylene (PHT) pump tube is engineered for transferring high temperature corrosive liquids. Robust Polypropylene ensures chemical resistance and excellent heat deflection properties against light to mildly aggressive chemicals.

Common Applications

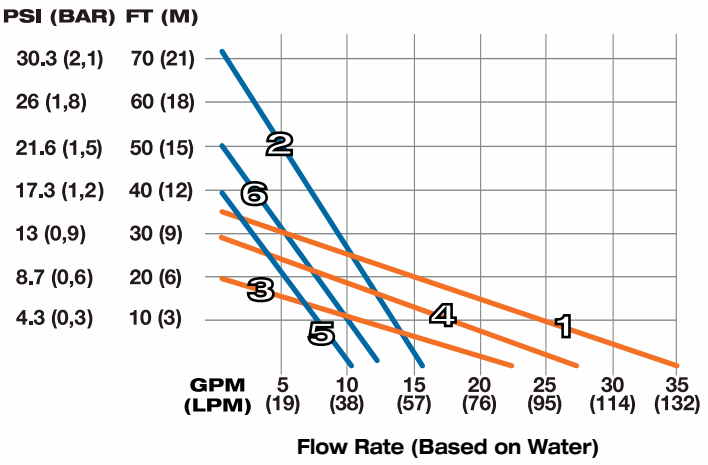
- Acetic Acid
- Sulfuric Acid
- Hydrochloric (20%)
- Nitric Acid (20%)
- Alkalies
- Ferric Chloride

Technical Specifications

Wetted Parts:	Polypropylene, Carbon, Hastelloy
Maximum Viscosity:	
SP-280P & SP-ENC	1500 cps (mPas)
SP-A2	750 cps (mPas)
SP-A1	450 cps (mPas)
Discharge Options:	1" (25 mm) /.75" (19 mm) Hose Barb
Immersion Lengths:	27" (700 mm), 39" (1000 mm), 47" (1200 mm) 60" (1500 mm) & 72" (1800 mm)
Pump Design:	Seal-less / Centrifugal
Maximum Specific Gravity:	1.8*
Maximum Temperature:	175° F (80° C)



Flow Curves



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 / High Volume Tube
5. SP-A1 / High Pressure Tube
6. SP-A2 / High Pressure Tube

Warning: Pump not suitable for pumping flammable liquids.

***Note:** Maximum Specific Gravity is 1.8 when used in conjunction with 825 watt motor.

Aluminum Series

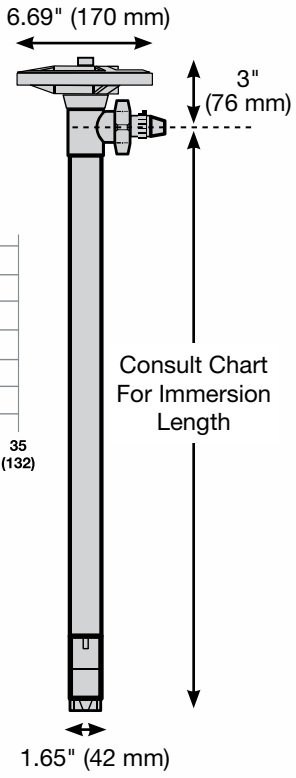
STANDARD's Aluminum pump tube is engineered for transferring Non-Corrosive liquids such as Machining Lubricants and Light Oils. Robust Aluminum construction offers excellent strength and durability.

Common Applications

- Motor Oil (Up to 30 Wt)
- Anti-Freeze
- Lubricating Oils
- Light Machining Oils
- Hydraulic Fluid

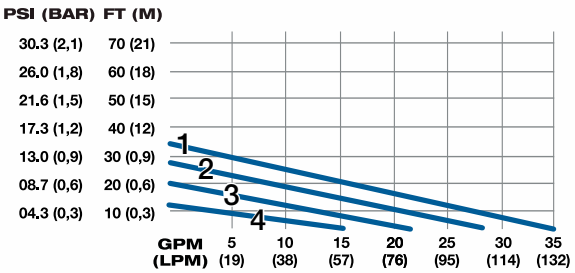
Technical Specifications

Wetted Parts:	Aluminum, Carbon, PTFE & SS316
Maximum Viscosity:	
SP-280P & SP-ENC	1500 cps (mPas)
SP-420EX & SP-A2	750 cps (mPas)
SP-A1	450 cps (mPas)
SP-410EX	200 cps (mPas)
Discharge Options:	1" (25 mm) /.75" (19 mm) Hose Barb
Immersion Lengths:	27" (700 mm), 39" (1000 mm), 47" (1200 mm) 60" (1500 mm) & 72" (1800 mm)
Pump Design:	Seal-less / Centrifugal
Maximum Specific Gravity:	1.8*
Maximum Temperature:	175° F (80° C)



Flow Curves

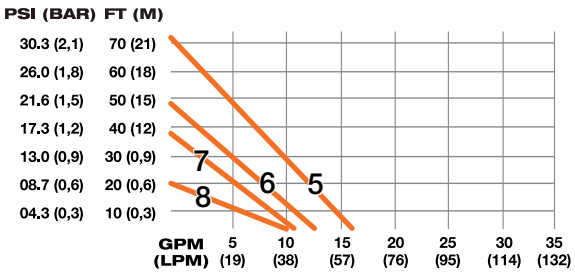
High Volume Pumps



KEY:

1 SP-280P, SP-ENC / High Volume Tube
2 SP-420EX, SP-A2 / High Volume Tube
3 SP-A1 / High Volume Tube
4 SP-410EX / High Volume Tube

High Pressure Pumps



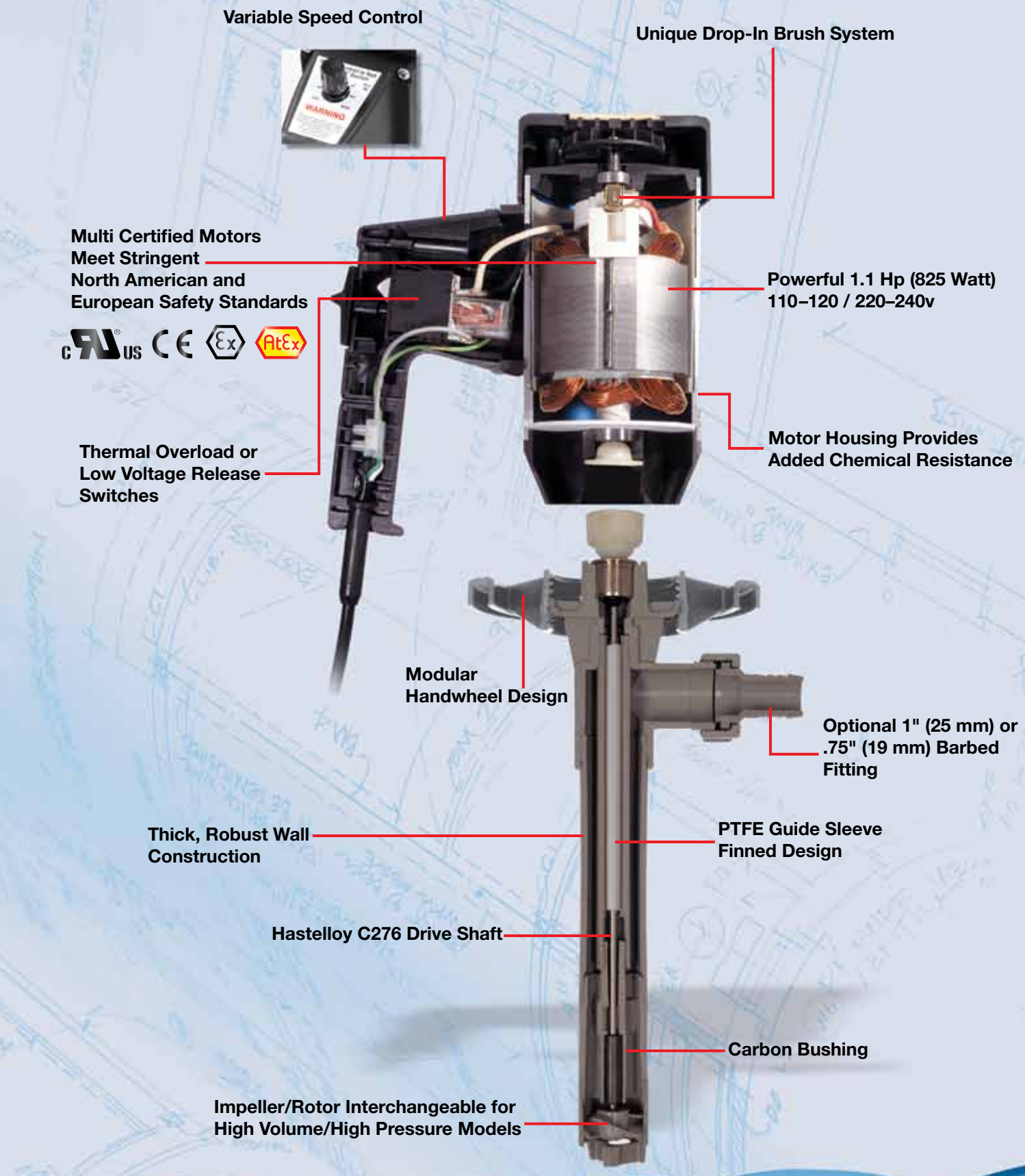
KEY:

5 SP-280P, SP-ENC / High Pressure Tube
6 SP-420EX, SP-A2 / High Pressure Tube
7 SP-A1 / High Pressure Tube
8 SP-410EX / High Pressure Tub

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

***Note:** Maximum Specific Gravity is 1.8 when used in conjunction with 825 watt motor.

Motor & Tube Assembly Detail



Accessories For Centrifugal Pumps

HAND NOZZLES

PART NUMBER	DESCRIPTION	SEAL MATERIAL	
9070	**Polypropylene** 1" O.D. (25 mm) – Hose Barb Intake **Note:** EPDM Seals are available upon request.	Viton®	
9026	**Stainless 316** 1" O.D. (25 mm) – Hose Barb Intake	PTFE	
9028	**PVDF** 1" O.D. (25 mm) – Hose Barb Intake **Note:** EPDM Seals are available upon request.	Viton®	
9030	**Aluminum** 1" O.D. (25 mm) – Hose Barb Intake	Buna	

DISCHARGE HOSE

PART NUMBER	DESCRIPTION	
9029	**Clear PVC** 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) Material of Construction: Polyvinyl Chloride	
9032	**Clear Braided PVC** 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) Material of Construction: Poly-Braid Polyvinyl Chloride	
9034	**Goodyear® FABCHEM™ UHMW** 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) Material of Construction: Ultra High Molecular Weight Polyethylene **Note:** Designed to be Used for Flammable / Combustible Liquids	
9044	**Goodyear® VIPER 16™** 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) Material of Construction: Modified Cross-Linked Polyethylene	

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Accessories For Centrifugal Pumps

BARREL ADAPTERS

PART NUMBER	MATERIAL	DESCRIPTION
9015	Polypropylene	2" O.D. (51mm)
9002	Stainless 304	2" O.D. (51mm)

FUME BARRIERS

PART NUMBER	MATERIAL	DESCRIPTION
9018	Polypropylene	2" O.D. (51 mm), EPDM Seal
9019	Stainless 304	2" O.D. (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 Storage Bracket is Designed for Pump Storage


PROGRESSIVE CAVITY PUMPS

SP-700SR Progressive Cavity Series

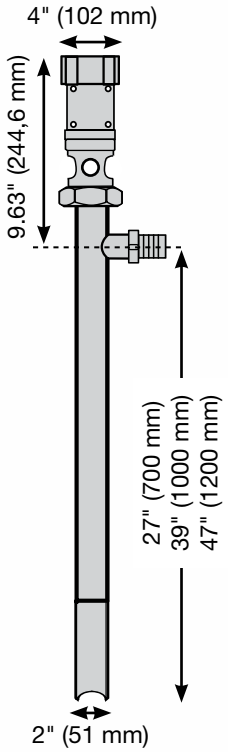
STANDARD's 700SR series pumps are engineered to transfer viscous materials from drums and ToteTanks®. The progressive cavity design delivers a continuous flow of material with little product degradation. Maximum viscosity is **25,000 cps (mPas).**

Common Applications

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

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) Hose Barb Optional 1.25" (32 mm)
Stator Materials:	PTFE, 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: PTFE, Viton®, or Buna
Motor Drives:	TEFC & Explosion Proof
Fittings:	Threaded 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)
Maximum Temperature:	
• PTFE & Viton® Stator	300° F (148° C)
• Buna Stator	185° F (85° C)
Maximum Solid Size:	.25" (6 mm)



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.

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Motor Drives

SP-ENC Series

SP-420EX

Note: Refer to page 9 for motor information

SP-700DD Progressive Cavity Series

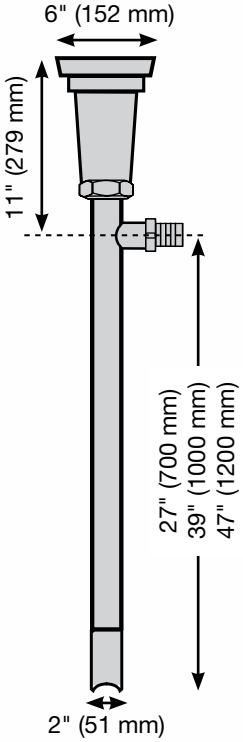
STANDARD's 700DD series pumps are engineered to transfer viscous materials from drums and ToteTanks®. The progressive cavity design delivers a continuous, smooth flow of material with little product degradation. Maximum viscosity is **100,000 cps (mPas).**

Common Applications

- Polymers
- Resins
- Adhesives
- Oils & Greases
- Paints
- 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:	PTFE, 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: PTFE, Viton® or Buna
Motor Drives:	TEFC & Air
Fittings:	Threaded design enables operator to disassemble pump quickly for cleaning, maintenance and inspection
Mounting Flange:	B14/C140-160
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:	
• PTFE & Viton® Stator	300° F (148° C)
• Buna Stator	185° F (85° C)
Maximum Solid Size:	.25" (6 mm)



Benefits

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

Motor Drives

TEFC

Air

Note: Refer to page 22 for motor information

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

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SP-700DD Pump Motors

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

MODEL	HP	KW	RPM	ENCLOSURE	FRAME	FLANGE
SP-502	.75	,55	750–900	TEFC (IP55)	90LC	B14/C140
SP-512	1.0	,75	750–900	TEFC (IP55)	100LC	B14/C160
SP-522	1.5	1,1	750–900	TEFC (IP55)	100LC	B14/C160
0017	Motor wiring for 230V/3/50-60 Hz					

Air Motor

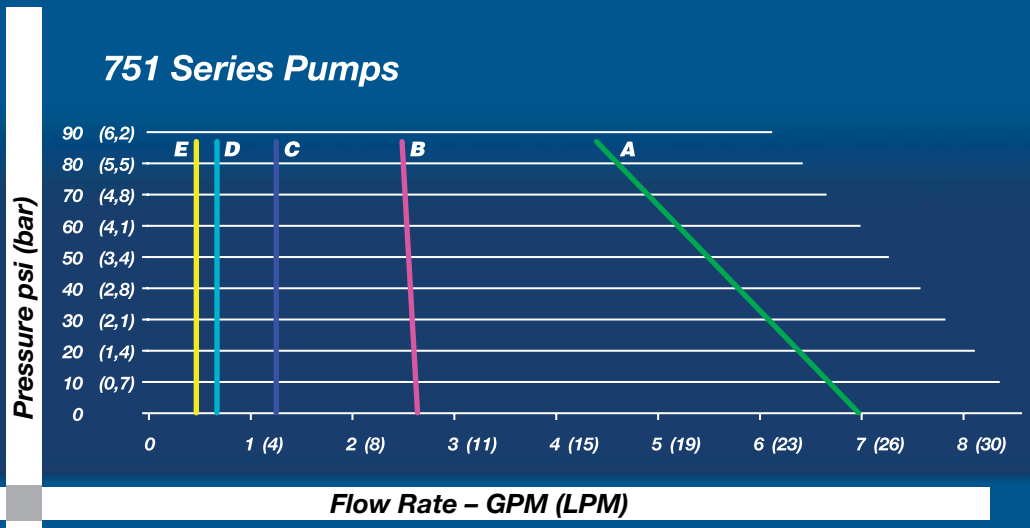
MODEL	HP	KW	RPM	AIR CONSUMPTION	FRAME	Air CONN. Inch (mm)
SP-A4	2.0	1,5	300–900	80 CFM @ 100 psi 37 L/Sec @ 7 bar	IEC#72/D71	.25" (6,3)
SP-A6	4.0	3,0	300–900	130 CFM @ 100 psi 65 L/Sec @ 7 bar	IEC#72/D80	.5" (12,7)
SP-A8	5.0	3,7	300–900	170 CFM @ 100 psi 80 L/Sec @ 7 bar	IEC#72/D90	.5" (12,7)

Note: Optimal Air 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.

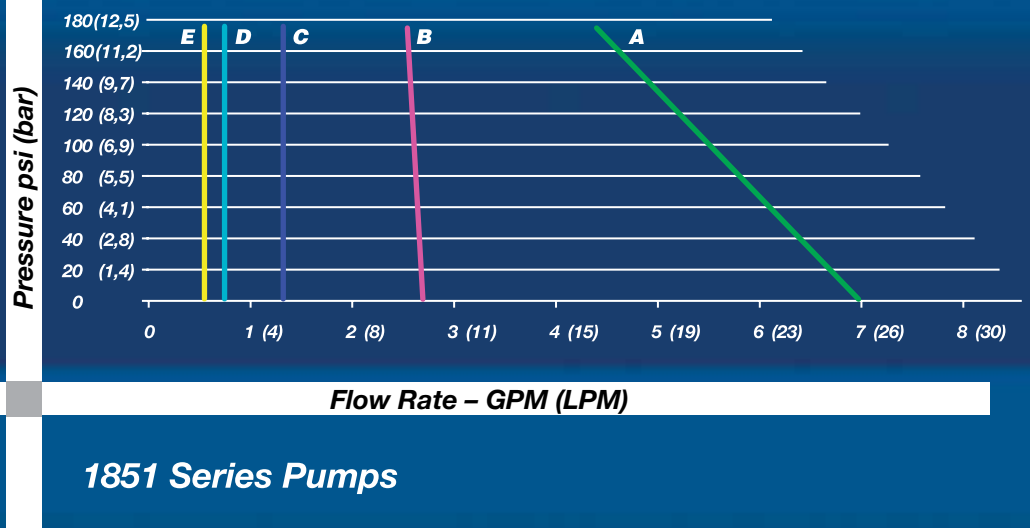
Performance Curves

751 Series Pumps



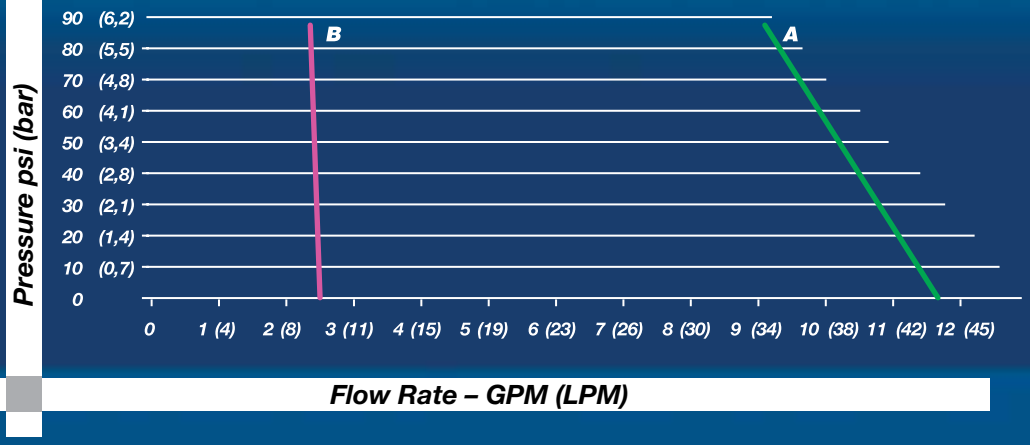
	Viscosity cps (mPas)	Electric HP (KW)	Air HP (KW)
A	1	.75 (,55)	2 (1,5)
B	10,000	.75 (,55)	2 (1,5)
C	30,000	1 (,75)	4 (3)
D	60,000	1 (,75)	4 (3)
E	100,000	1.5 (1,1)	5 (3,7)

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 (PTFE, 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.

Accessories

DISCHARGE HOSE CLAMP

PART NUMBER	DESCRIPTION
9038	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

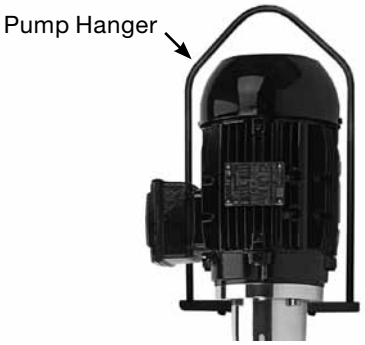
Recommended For: High pressure hydraulic oil lines. Tube: Black, oil resistant synthetic rubber. (Nitrile). Reinforcement: One braid of high tensile steel wire. Cover: Black, oil and abrasion resistant synthetic rubber. Flame Resistance: Meets Flame Resistant Designation “GL” Germanischer Lloyd. Meets 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	Max Static WP psi/bar	Min Burst Pressure psi/bar
725/50	970/67	2900/200

PUMP HANGER

PART NUMBER	DESCRIPTION
743	Pump Hanger Provides a Convenient Solution for Attaching the Pump to a Hoist System



QUICK DISCONNECT

PART NUMBER	DESCRIPTION
150DSS/150ESS	1.5" (38 mm), SS316 Cam Lever Couplings, Buna N Gaskets, Max. Pressure: 150 psi (10,2 bar).

METERING SYSTEMS

Batch Control System (Low Viscosity)

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

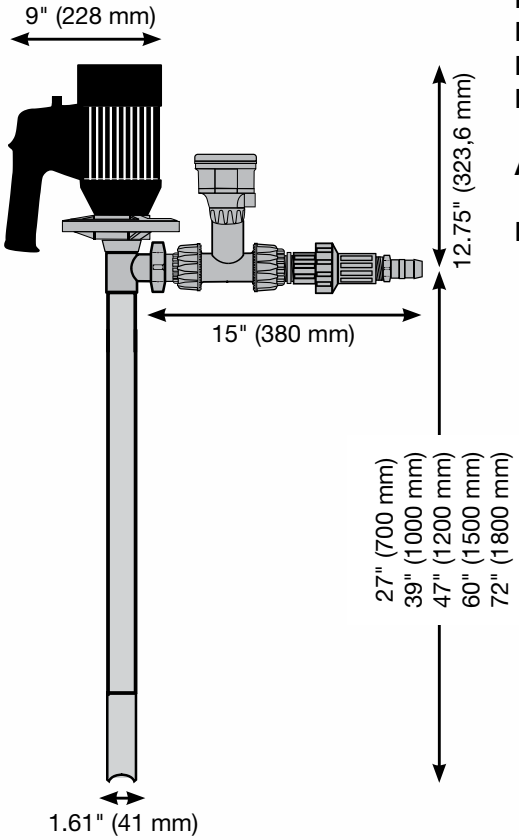
- Chemical Packaging
- Chemistry For Plating Tanks
- Water Treatment Chemicals
- Chemical Delivery

Features

- Turbine Paddle Wheel Design
- Measures: Gallons, Liters, Cubic Meters
- Re-settable Totalizer
- User Friendly "In Field" Calibration
- 7 Pre-Set Batches
- Remote Start Capabilities
- Relay Output Signal

Technical Data

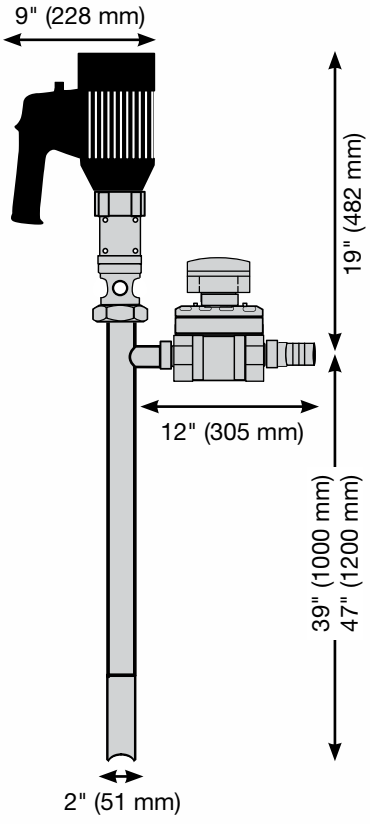
Available Wetted Parts:	Polypropylene, PVDF, Ceramic & Halar
Motor Drive:	Open Drip Proof (IP44) or TEFC (IP54) (110–120 / 220–240v)
Discharge Fitting:	1" (25 mm) Hose Barb
Pumping Principle:	Centrifugal / Seal-less
Flow Range:	1.17 GPM (4,4 LPM) – 27 GPM (102,2 LPM)
Maximum Viscosity:	300 cps (mPas)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

Features

- Oval Gear Design
- Measures: Gallons, Liters, Cubic Meters
- Re-settable Totalizer
- User Friendly "In Field" Calibration
- 7 Pre-Set Batches
- Remote Start Capabilities
- Relay Output Signal

Technical Data

Wetted Parts:	316SS / PPS / Aluminum / PTFE
Motor Drive:	TEFC (IP54)
Discharge Fitting:	1.5" (38 mm) Hose Barb
Mechanical Seal:	SiC/Viton®/SiC
Pumping Principle:	Progressive Cavity – Positive Displacement
Max. Discharge Pressure:	87 psi (6 bar)
Flow Range:	2.6 GPM (9,8 LPM) – 12 GPM (45 LPM) based on water
System Weight:	44 Lbs (20 Kg)
Immersion Length:	39" (1000 mm) or 47" (1200 mm)
Viscosity Range:	**1-10,000 cps (mPas)** P/N: 7610 (110v), 7611 (220v) – **39" (1000 mm)** P/N: 7620 (110v), 7621 (220v) – **47" (1200 mm)** **10,000-25,000 cps (mPas)** P/N: 7614 (110v), 7615 (220v) – **39" (1000 mm)** P/N: 7624 (110v), 7625 (220v) – **47" (1200 mm)**
Metering Principle:	Oval Gear
Accuracy:	+/- 0.63 % of Full Scale +/- 1% of Reading
Maximum Temperature:	176° F (80° C)

Controller Display

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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

Paddlewheel Technology

Technical Data

Available Sizes:	Polypropylene & PVDF 0.5" (13 mm) – 1.5" (38 mm) SS316 0.75" (19 mm) – 1.25" (32 mm)
Accuracy:	+/- 0.61% of Full Scale +/- 1% of Reading
Available Materials:	Polypropylene, PVDF or SS316
Maximum Viscosity:	300 cps (mPas)
Units of Measure:	Gallons, Liters, Cubic Meters
Temperature Range:	Polypropylene -4°–176° F (-20°–80° C) Stainless & PVDF -22°–212° F (-30°–100° C)
Metering Principle:	Turbine (Paddle Wheel)
Maximum Pressure:	150 psi (10,5 bar) @ 70° F (20° C)
Flow Range:	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).

CE

Common Applications

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

Features

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

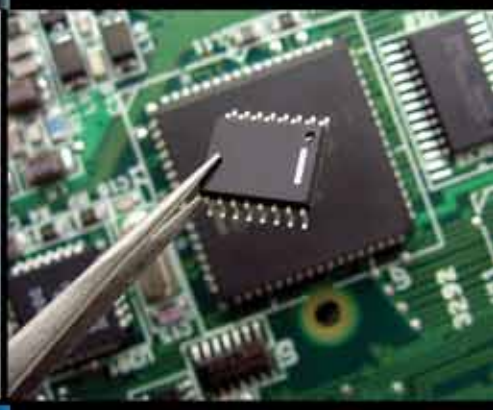
Technical Data

Available Sizes:	0.5" (13 mm) – 2" (51 mm)
Shaft:	316SS
O-Ring:	NBR (Nitrile)
Ports:	FNPT Inlet and Outlet Connections
Accuracy:	+/- 0.63% of Full Scale +/- 1% of Reading
Housing Materials:	Aluminum (w/ PPS Gears) or SS316 (w/ SS316 Gears)
Maximum Viscosity:	1,000,000 cps (mPas)
Units of Measure:	Gallons, Liters, Cubic Meters
Maximum Temperature:	Aluminum 176° F (80° C) SS316 248° F (120° C)
Metering Principle:	Oval Gear
Maximum Pressure:	0.5" (13 mm) & 1" (25 mm): 800 psi (55 bar) 1.5" (38 mm) & 2" (51 mm): 260 psi (18 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

Notes

Notes



Additional Products Available:

Air Operated
Diaphram Pumps

3A Drum Pumps

DEF Pumps

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