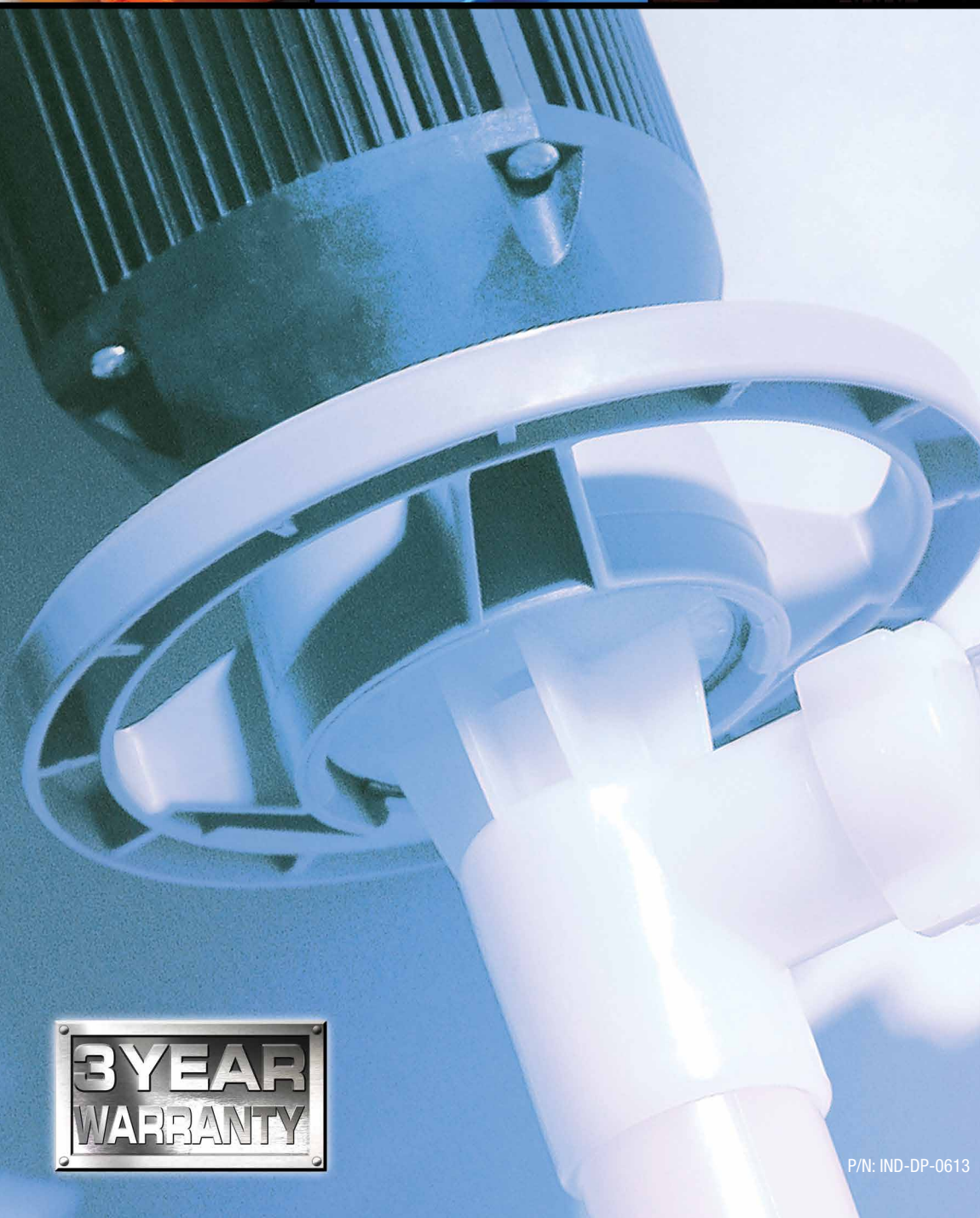


STANDARD
Pump, Inc.



**3 YEAR
WARRANTY**

P/N: IND-DP-0613

Industrial Drum Pumps

Multi-Certified



INITIALLY ISSUED: 11/02/2012 AUTHORIZATION NUMBER: 1679

3

THIS IS TO CERTIFY THAT

Standard Pump, Inc.
1540 University Dr., Auburn, GA 30011

is hereby authorized to continue to apply the
3-A symbol to the models of equipment, conforming to 3-A Sanitary Standards for:

Number: 44-03, Diaphragm Pumps
with 3-A Mark

Clean-In-Place Models: SP3A15NPT, SP3A2NPT.

VALID THROUGH December 31, 2013

Timothy R. Rugh
Executive Director, 3-A Sanitary Standards, Inc.

The issuance of this authorization for the use of the 3-A symbol is based upon the voluntary certification, by the applicant for it, that the equipment listed above complies fully with the 3-A Sanitary Standards designated. Legal responsibility for compliance is solely that of the holder of this Certificate of Authorization, and 3-A Sanitary Standards, Inc. does not warrant that the holder of an authorization at all times complies with the provisions of the said 3-A Sanitary Standards. This in no way affects the responsibility of 3-A Sanitary Standards, Inc. to take appropriate action in such cases in which evidence of nonconformance has been established.

NEXT TPI INSPECTION REPORT DUE: October 2017



TYPE EXAMINATION CERTIFICATE

- (1) Equipment intended for use in potentially explosive atmospheres -
Directive 94/EC
- (2) Type Examination Certificate number: DTI 13-0022X
- (3) Equipment: **Sanitary diaphragm pump**
SP-8000 series and SP-8000 series
Inherent type SP-55 & SP-55 AL series
- (4) Manufacturer: **Standard Pump Europe**
Vandœuvre 12, 58000 Villeneuve, France
- (5) The Certificate is issued according to Annex VII clause 2 of Council Directive 94/EC for equipment and protective systems intended for use in potentially explosive atmospheres (ATEX). The certificate confirms the design and construction of the equipment and protective systems intended for use in potentially explosive atmospheres as specified in the certificate and in the documents that the certificate refers to.
- (6) Danish Technological Institute certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- (7) The equipment and test results are recorded in confidential report no. 40154-09
- (8) The essential Health and Safety Requirements are covered by compliance with:
- EN 13463-1:2009 EN 13463-5:2003
- (9) The sign "II 2G" placed after the certificate number indicates that the equipment or protective system is subject to special conditions for safety as specified in the certificate.
- (10) This certificate relates to the design, construction and test of the specified equipment and not to the manufacturing process and supply of the equipment.
- (11) The marking of the equipment or protective system shall include the following:



TYPE EXAMINATION CERTIFICATE

- (1) Equipment intended for use in potentially explosive atmospheres -
Directive 94/EC
- (2) Type Examination Certificate number: DTI 11 ATEX 0045X
- (3) Equipment: **Sanitary diaphragm pump**
SANITARY type SP-8000 & SP-8000 and inherent type SP-55 & SP-55 AL series
- (4) Manufacturer: **Standard Pump Europe**
Vandœuvre 12, 58000 Villeneuve, France
- (5) The Certificate is issued according to Annex VII clause 2 of Council Directive 94/EC for equipment and protective systems intended for use in potentially explosive atmospheres (ATEX). The certificate confirms the design and construction of the equipment and protective systems intended for use in potentially explosive atmospheres as specified in the certificate and in the documents that the certificate refers to.
- (6) Danish Technological Institute certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- (7) The essential Health and Safety Requirements are covered by compliance with:
- EN 13463-1:2009 EN 13463-5:2003
- (8) The sign "II 2G" placed after the certificate number indicates that the equipment or protective system is subject to special conditions for safety as specified in the certificate.
- (9) This certificate relates to the design, construction and test of the specified equipment and not to the manufacturing process and supply of the equipment.
- (10) The marking of the equipment or protective system shall include the following:



On behalf of Danish Technological Institute
Author: 2012-07-26
Certification & Inspection
Lene Christensen
ATEX Manager

Certificate of Compliance

Certificate: 254481; Master Contract: 254672
Project: 254481; Date Issued: June 26, 2012
Issued to: **Standard Pump Inc.**
1540 University Dr., Auburn, GA 30011
USA
Attention: Mr. Robert Wiley

The products listed below are eligible to bear the CSA Mark shown



Issued by: Rachel Miranda

PRODUCTS

CLASS 3030-01 - LIQUID PUMPERS - For Hazardous Locations
Class 1 Group D
Diaphragm pump, Model SP-410EX and 115V, 50/60Hz, 2.0 FLA, and Model SP-410EX and 115V, 60Hz, 4.3 FLA
Temperature class T3C (100°C)

APPLICABLE REQUIREMENTS

CSA Std C22.2 No. 100-04 - Motors and Generators
CSA Std C22.2 No. 143-M1984 - Motors and Generators for Use in Hazardous Locations

MISCELLANEOUS

Include CSA file number, Model, electrical rating, date code and the CSA Monogram on a serial compliance at least 0.020 in. thick permanently secured to the enclosure by screws or rivets.

ALTERATIONS

Modifications as stated above apply.

2012-07-26 2012-06-26

Page 1



EC - CERTIFICATE

Equipment for use in potentially explosive atmospheres -
Directive 94/EC

Certificate Number: T2 2011-1-0106 A
Equipment: **Adaptor assembly**
Manufacturer: **SP A1- size in series**
Manufacturer: **Standard Pump Europe**
Vandœuvre 12, 58000 Villeneuve, France

The marking of the equipment or protective system shall include the following:



This Certificate is issued according to Annex VII clause 2 of Council Directive 94/EC for equipment and protective systems intended for use in potentially explosive atmospheres (ATEX). The certificate confirms the design and construction of the equipment and protective systems intended for use in potentially explosive atmospheres as specified in the certificate and in the documents that the certificate refers to.

It is not verified and without responsibility of Technological Institute whether the documents are correct, complete or according to the requirements in the Directive 94/EC.

The weight documentation is stamped in confidential report.

Description of receipt documentation: One set of technical documentation in paper form.

On behalf of Technological Institute
Author: 2011-11-17
Certification & Inspection

Lene Christensen
ATEX Manager



Industrial **SAFETY** Solutions

SAFETY:

As a leading pump manufacturer, Standard is known for our commitment to product quality and SAFETY serving the operations and maintenance professionals. Standard Pump products are certified to meet globally recognized SAFETY standards and guidelines to include Underwriters Laboratories (UL), Canadian Standards Association (CSA), Community European mark (CE) and European hazardous duty equipment (AtEx).

GLOBAL COMMITMENT:

Standard Pump has a global presence supporting factory authorized distributors in fifty-two countries. Our world headquarters is located in Atlanta, GA (USA). A global support team provides sales and support staff, complete inventory and engineering in Copenhagen, Denmark and Shanghai, China.



Chemical Safety Solutions



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) <i>based on water</i>
Max. Viscosity:	1500 cps (mPas)
Max. Temperature:	190° F (88° C)



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) <i>based on water</i>
Max. Viscosity:	1500 cps (mPas)
Max. Temperature:	130° F (55° C)



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) <i>based on water</i>
Max. Viscosity:	1500 cps (mPas)
Max. Temperature:	175° F (80° C)



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) <i>based on water</i>
Max. Viscosity:	300 cps (mPas)
Max. Temperature:	130° F (55° C)



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) <i>based on water</i>
Max. Viscosity:	300 cps (mPas)
Max. Temperature:	175° F (80° C)



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) <i>based on water</i>
Max. Viscosity:	1500 cps (mPas)
Max. Temperature:	175° F (80° C)

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) <i>based on water</i>
Max. Viscosity:	1500 cps (mPas)
Max. Temperature:	175° F (80° C)



Pump Package 8 | Flammable & 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. (1,8 m), I.D. 1" (25 mm) Solvent Hose
Dispensing Nozzle:	1" (25 mm) SS316
Barrel Adapter:	Stainless Steel
Storage Bracket:	Steel
Max. Flow Rate:	17 GPM (64 LPM) <i>based on water</i>
Max. Viscosity:	750 cps (mPas)
Max. Temperature:	175° F (80° C)



Pump Package 9 | Flammable & Combustible Liquids



Explosion Proof Drum Pump (Electric) 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. (1,8 m), I.D. 1" (25 mm) Solvent Hose
Dispensing Nozzle:	1" (25 mm) SS316
Barrel Adapter:	Stainless Steel
Storage Bracket:	Steel
Max. Flow Rate:	18 GPM (68 LPM) <i>based on water</i>
Max. Viscosity:	750 cps (mPas)
Max. Temperature:	175° F (80° C)

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

Drum Pump Motors



SP-280P Series

MODEL	ENCLOSURE	CERTIFICATION	POWER	WATT	V.S.D.
SP-280P	Open Drip Proof (IP44)	c US	110-120V/1/50-60Hz	825	No
SP-280P-V	Open Drip Proof (IP44)	c US	110-120V/1/50-60Hz	825	Yes
SP-280P-2	Open Drip Proof (IP44)		220-240V/1/50-60Hz	825	No
SP-280P-2-V	Open Drip Proof (IP44)		220-240V/1/50-60Hz	825	Yes

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.
SP-ENC	TEFC (IP54)	c US	110-120V/1/50-60Hz	825	No
SP-ENC-V	TEFC (IP54)	c US	110-120V/1/50-60Hz	825	Yes
SP-ENC-2	TEFC (IP54)		220-240V/1/50-60Hz	825	No
SP-ENC-2-V	TEFC (IP54)		220-240V/1/50-60Hz	825	Yes

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.
SP-410EX	Explosion Proof		110-120V/1/50-60Hz	230	No
SP-420EX	Explosion Proof		220-240V/1/50-60Hz	600	No

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
SP-A1	22 CFM @ 90 psi (10.4 L/sec @ 6,2 bar)		100 psi (6,8 bar)	1/2 HP (370 W)

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
SP-A2	28 CFM @ 90 psi (13.2 L/sec @ 6,2 bar)	100 psi (6,8 bar)	3/4 HP (560 W)
SP-A2TL (trigger lock)	28 CFM @ 90 psi (13.2 L/sec @ 6,2 bar)	100 psi (6,8 bar)	3/4 HP (560 W)

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

Technical Specifications

Wetted Parts:	Polypropylene, Carbon, Hastelloy
Maximum Viscosity:	
PN: SP-280P & SP-ENC	1500 cps (mPas)
PN: SP-A2	750 cps (mPas)
PN: 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:	Sealless / Centrifugal
Maximum Specific Gravity:	1.8*
Maximum Flow Rate:	35 GPM (132 LPM)
Maximum Discharge Pressure:	30 psi (2,1 Bar)
Maximum Temperature:	130° F (55° C)

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

Technical Specifications

Wetted Parts:	CPVC, PVDF, Carbon, Hastelloy
Maximum Viscosity:	
PN: SP-280P & SP-ENC	1500 cps (mPas)
PN: SP-A2	750 cps (mPas)
PN: 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:	Sealless / Centrifugal
Maximum Specific Gravity:	1.8*
Maximum Flow Rate:	35 GPM (132 LPM)
Maximum Discharge Pressure:	30 psi (2,1 Bar)
Maximum Temperature:	190° F (88° C)

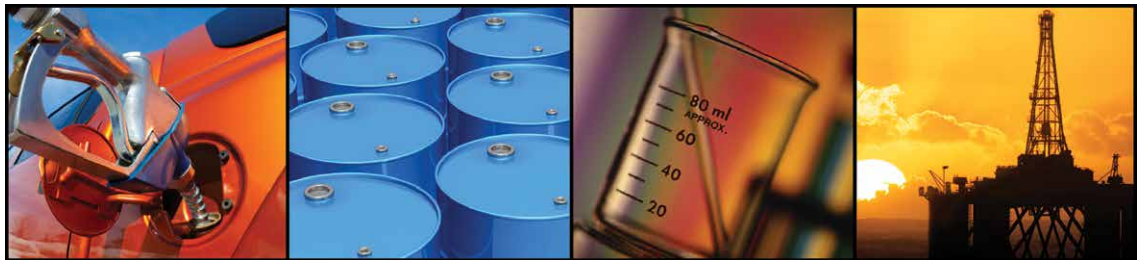


WARNING: Pump not suitable for pumping flammable liquids.

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

Technical Specifications

Wetted Parts:	316SS, Carbon, PTFE
Maximum Viscosity:	
PN: SP-280P & SP-ENC	1500 cps (mPas)
PN: SP-420EX & SP-A2	750 cps (mPas)
PN: SP-A1	450 cps (mPas)
PN: 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:	Sealless / Centrifugal
Maximum Specific Gravity:	1.8*
Maximum Flow Rate:	35 GPM (132 LPM)
Maximum Discharge Pressure:	30 psi (2,1 Bar)
Maximum Temperature:	175° F (80° C)
ATEX Certification:	DTI 13.0022X II 2 G c IIB T4

 **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 corrosive chemicals commonly used in the water treatment industry. Robust PVDF offers excellent durability and chemical resistance.



Common Applications

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

Technical Specifications

Wetted Parts:	PVDF, Carbon, Hastelloy
Maximum Viscosity:	
PN: SP-280P & SP-ENC	1500 cps (mPas)
PN: SP-A2	750 cps (mPas)
PN: 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:	Sealless / Centrifugal
Maximum Specific Gravity:	1.8*
Maximum Flow Rate:	35 GPM (132 LPM)
Maximum Discharge Pressure:	30 psi (2,1 Bar)
Maximum Temperature:	175° F (80° C)



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

Technical Specifications

Wetted Parts:	Polypropylene, Carbon, Hastelloy
Maximum Viscosity:	
PN: SP-280P & SP-ENC	1500 cps (mPas)
PN: SP-A2	750 cps (mPas)
PN: 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:	Sealless / Centrifugal
Maximum Specific Gravity:	1.8*
Maximum Flow Rate:	35 GPM (132 LPM)
Maximum Discharge Pressure:	30 psi (2,1 Bar)
Maximum Temperature:	175° F (80° C)



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)
- Light Machining Oils
- Anti-Freeze
- Hydraulic Fluid
- Lubricating Oils

Technical Specifications

Wetted Parts:	Aluminum, Carbon, PTFE & SS316
Maximum Viscosity:	
PN: SP-280P & SP-ENC	1500 cps (mPas)
PN: SP-420EX & SP-A2	750 cps (mPas)
PN: SP-A1	450 cps (mPas)
PN: 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:	Sealless / Centrifugal
Maximum Specific Gravity:	1.8*
Maximum Flow Rate:	35 GPM (132 LPM)
Maximum Discharge Pressure:	30 psi (2,1 Bar)
Maximum Temperature:	175° F (80° C)
ATEX Certification:	DTI 13.0022X II 2 G c IIB T4

 **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.

Accessories



Hand Nozzles

PART NUMBER	DESCRIPTION	SEAL MATERIAL
Polypropylene		
9070	1" O.D. (25 mm) – Hose Barb Intake	Viton®
9071	¾" O.D. (19 mm) – Hose Barb Intake	Viton®
9070e	1" O.D. (25 mm) – Hose Barb Intake	EPDM
9071e	¾" O.D. (19 mm) – Hose Barb Intake	EPDM
Stainless 316		
9026	1" O.D. (25 mm) – Hose Barb Intake	PTFE
PVDF		
9090	1" O.D. (25 mm) – Hose Barb Intake	Viton®
9091	¾" O.D. (19 mm) – Hose Barb Intake	Viton®
9090e	1" O.D. (25 mm) – Hose Barb Intake	EPDM
9091e	¾" O.D. (19 mm) – Hose Barb Intake	EPDM
Aluminum		
9030	1" O.D. (25 mm) – Hose Barb Intake	Buna
9030-075	¾" O.D. (19 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





Barrel Adapters

PART NUMBER	MATERIAL	DESCRIPTION
9015	Polypropylene	2" O.D. (51mm)
9002	Stainless 304 (SP-SS Series)	2" O.D. (51mm)
9022	Stainless 304 (SP-AL Series)	2" O.D. (51mm)



Fume Barriers

PART NUMBER	MATERIAL	DESCRIPTION
9018	Polypropylene	2" O.D. (51 mm), EPDM Seal
9019	Stainless 304 (SP-SS Series)	2" O.D. (51 mm), EPDM Seal
9024	Stainless 304 (SP-AL Series)	2" O.D. (51 mm), Buna 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)

Accessories Continued

Hose Barbs



PART NUMBER

MATERIAL

DESCRIPTION

1051

Polypropylene

.75" (19 mm)



5051

CPVC

.75" (19 mm)



2197

SS316

.75" (19 mm)



4051

PVDF

.75" (19 mm)



6051

High Temperature Polypropylene

.75" (19 mm)



3708

Aluminum

.75" (19 mm)



Quick Disconnect

PART NUMBER

DESCRIPTION

125A100C

Polypropylene – 1.25" BSP Thread x 1" Barb



Wall Bracket

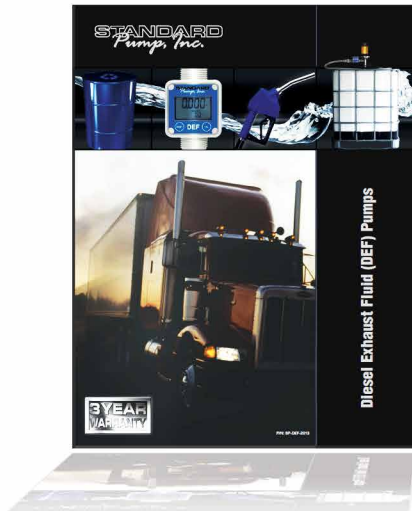
PART NUMBER

DESCRIPTION

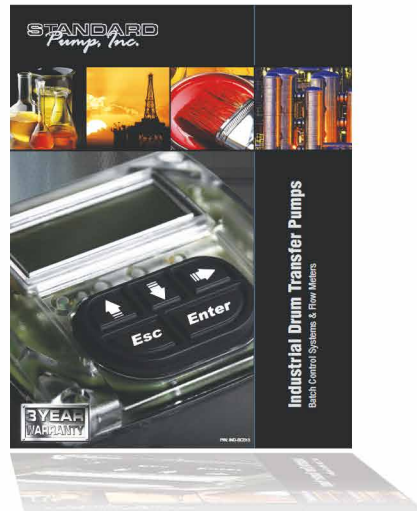
9006

Stainless Steel Wall Storage Bracket is
Designed for Pump Storage

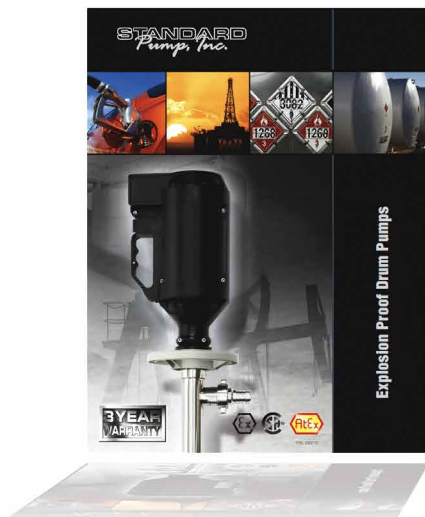
Additional Products



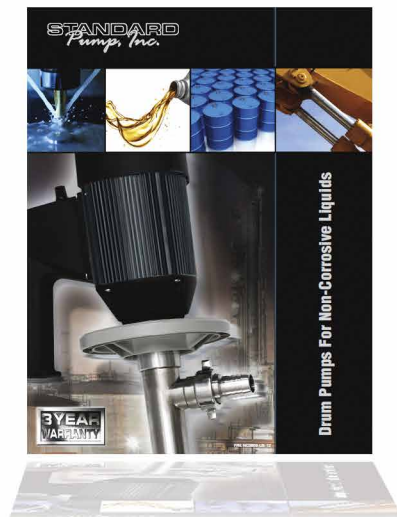
DEF Drum Pumps



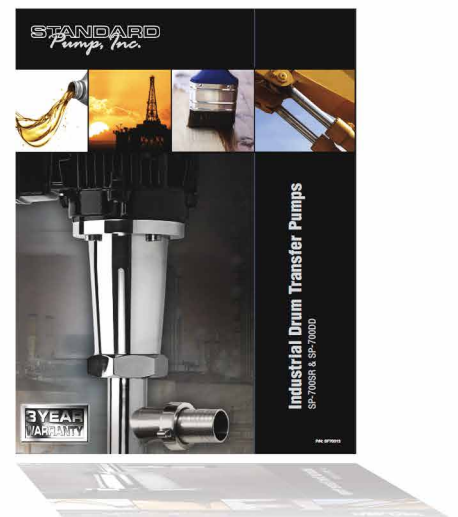
Metering Systems



Hazardous Duty Pumps



**Drum Pumps For
Non-Corrosive Liquids**



**Progressive Cavity
Drum Pumps**