STANDARD Pump, Inc.

Industrial Drum Pumps

3 YEAR WARRANTY

P/N: IND-DP-0613

Multi-Certified

INITIALLY ISSUED: 11/6/2012 AUTHORIZATION NUMBER: 1679

THIS IS TO CERTIFY THAT

Standard Pumps, 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
set forth below

Clean-in-Place Models: SP3A15NPT, SP3A20NPT.

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 had been established.

NEXT TPV INSPECTION/REPORT DUE: October 2017

DANISH TECHNOLOGICAL INSTITUTE
Certification & Inspection

TYPE EXAMINATION CERTIFICATE

[1] TYPE EXAMINATION CERTIFICATE

[2] Equipment intended for use in potentially explosive atmospheres - Directive 94/9/EC

[3] Type Examination Certificate number : DTI 13.0022X

[4] Equipment: Sanitary drum pump;
Type: SP-8600/8700 series and SP-8800/8900 series
Industrial type SP-SS-A HH and SP-AL series

[5] Manufacturer: Standard Pump Europe A/S (Standard Pump Inc.)

[6] Address: Vosludvej 12
DK-3400 Hillerod, Denmark

[7] This Certificate is issued according to Annex VIII clause 2 of Council Directive 94/9/EC for equipment and protective systems intended for use in potentially explosive atmospheres (ATEX). The certificate confirms the receipt and storage of the technical documentation received from the certificate holder. This equipment and acceptable variation thereto is specified in the schedule to this certificate and in the documents that the certificate refers to.

[8] 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.

[9] The examinations and test results are recorded in confidential report no. 404414-00

[10] The essential Health and Safety Requirements are assured by compliance with:

EN 13463-1:2009 EN 13463-5: 2003

[11] The sign "X" placed after the certificate number indicates that the equipment or protective system is subject to special conditions for safety use specified in the schedule to this certificate.

[12] This certification relates to the design, examination and tests of the specified equipment and not to the manufacturing process and supply of the equipment.

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

II 2G c IIB T4

Aarhus, 2013-03-06

Physical Technical Testing Institute
Ostrava – Radvance

EC-Type Examination Certificate

Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres (Directive 94/9/EC)

(3) EC-Type Examination Certificate Number:

FTZÚ 12 ATEX 0225X

(4) Equipment or protective system: Pump motor type SP – 420EX

(5) Manufacturer: STANDARD PUMP Inc.

(6) Address: 1540 University Dr., Auburn , Georgia 30011, USA

(7) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°:

12/ 0225 dated 28 November 2012

(9) Compliance with Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2003 EN 60079-1:2004

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

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

II 2G Ex d IIA T4

This EC-Type Examination Certificate is valid till: 31.05.2013

Responsible person: Ing. Lukáš Martinák, Head of Certification Body

Date of issue: 28.11.2012

Page: 1/3

This certificate is granted subject to the general conditions of the FTZÚ, s.p.
This certificate may only be reproduced in its entirety and without any change, schedule included.

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tel: +420 599 223 111, fax: +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz

DANISH TECHNOLOGICAL INSTITUTE
Certification & Inspection

TYPE EXAMINATION CERTIFICATE

[1] TYPE EXAMINATION CERTIFICATE

[2] Equipment intended for use in potentially explosive atmospheres - Directive 94/9/EC

[3] Type Examination Certificate number : DTI 11 ATEX 0016X

[4] Equipment: Stainless steel drum pump:
SANITARY type SP8100 & 8200 and Industrial type SP-SS & HH

[5] Manufacturer: Standard Pump Europe

[6] Address: Vosludvej 12
DK-3400 Hillerod, Denmark

[7] This Certificate is issued according to Annex VIII clause 2 of Council Directive 94/9/EC for equipment and protective systems intended for use in potentially explosive atmospheres (ATEX). The certificate confirms the receipt and storage of the technical documentation received from the certificate holder. This equipment and acceptable variation thereto is specified in the schedule to this certificate and in the documents that the certificate refers to.

[8] 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.

[9] The essential Health and Safety Requirements are assured by compliance with.

EN 13463-1:2009 EN 13463-5: 2003

[10] The sign "X" placed after the certificate number indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This certificate relates to the design, examination and tests of the specified equipment and not to the manufacturing process and supply of the equipment.

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

On behalf of Danish Tech
Aarhus, 2013-07-29
Certification & Inspection
Søren Christensen
ATEX Manager

CSA INTERNATIONAL

Certificate of Compliance

Certificate: 2534481 Master Contract: 256172

Project: 2534481 Date Issued: June 26, 2012

Issued to: Standard Pump Inc.
1540 University Dr., Auburn
Georgia 30011
USA
Attention: Mr. Robert Miley

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

Issued by: Rachel Miranda

PRODUCTS

CLASS 3638 01 - LIQUID PUMPS - For Hazardous Locations

Class I, Group D

Drum pumps, Model SP-410EX rated 115V, 50/60Hz, 2.0 FLA; and Model MTX rated 115V, 60Hz, 4.3 FLA. Temperature code T3C (160°C).

APPLICABLE REQUIREMENTS

CSA Std C22.2 No. 100-04 - Motors and Generators
CSA Std C22.2 No. 145-M1986 - Motors and Generators for Use in Hazardous Locations

MARKINGS

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

ALTERATIONS

Markings as stated above appear.

DQD 507 Rev. 2009-09-01 Page 1

AUTHORIZATION NUMBER: 1336

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: 02-11, Centrifugal and Positive Rotary Pumps
set forth below

Progressing Cavity Pumps SP-800SR and SP-800DD with lengths 27 in., 39 in., and 47 in.; NBR and PTFE stators; SiC-SiC seals Centrifugal Pumps HV SP-8800 and HP SP-8900 in lengths 39 in. and 47 in.

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 had been established.

NEXT TPV INSPECTION/REPORT DUE: December 2016

EC - CERTIFIC

Equipment for use in potentially explosive atmospheres:
Directive 94/9/EC

Certificate Number: TI 2011-1-0106 A

Equipment: Adaptor assembly

Nomenclature: SP A1- alu or nylon

Manufacturer: Standard Pump Europe
Address: Vosludvej 12, DK-3400 Hillerod

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

II 2G c IIB T4

This Certificate is issued according to Annex VIII clause 2 of Council Directive 94/9/EC for equipment and protective systems intended for use in potentially explosive atmospheres (ATEX). The certificate confirms the receipt and storage of the technical documentation received from the certificate holder.

It was not verified and without responsibility of Technological Institute whether the documentation are correct, complete or according to the requirements in the Directive 94/9/EC.

The receipt documentation is storage in confidential report.

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

On behalf of Technological Institute
Aarhus, 2011-11-17
Certification & Inspection
Søren 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) *based on water*
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) *based on water*
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) *based on water*
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) *based on water*
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) *based on water*
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) *based on water*
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) *based on water*
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) *based on water*
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) *based on water*
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)	cULus	110-120V/1/50-60Hz	825	No
SP-280P-V	Open Drip Proof (IP44)	cULus	110-120V/1/50-60Hz	825	Yes
SP-280P-2	Open Drip Proof (IP44)	CE	220-240V/1/50-60Hz	825	No
SP-280P-2-V	Open Drip Proof (IP44)	CE	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)	cULus	110-120V/1/50-60Hz	825	No
SP-ENC-V	TEFC (IP54)	cULus	110-120V/1/50-60Hz	825	Yes
SP-ENC-2	TEFC (IP54)	CE	220-240V/1/50-60Hz	825	No
SP-ENC-2-V	TEFC (IP54)	CE	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	SP	110-120V/1/50-60Hz	230	No
SP-420EX	Explosion Proof	ATEX CE	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)	ATEX	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

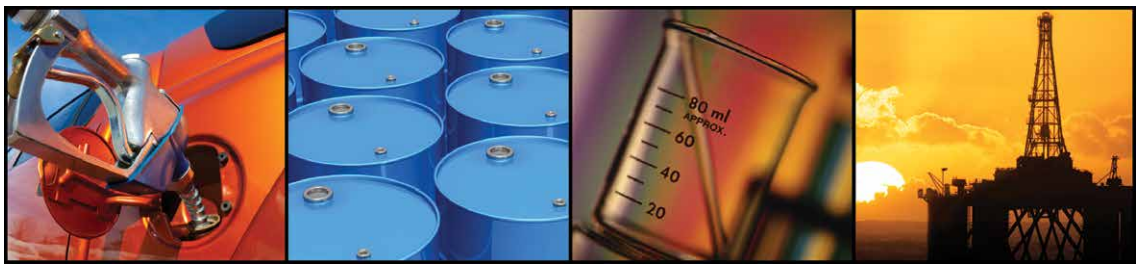
Technical Specifications

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 Hypoclorite
- 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: 150ºF (66ºC) 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: 150ºF (66ºC) 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: 150ºF (66ºC), 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: 250ºF (121ºC), 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. (51mm), 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)

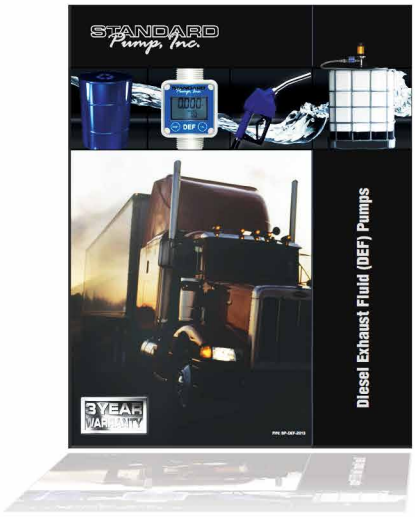
Quick Disconnect

PART NUMBER	DESCRIPTION
125A100C	Polypropylene – 1.25" BSP Thread x 1" Barb

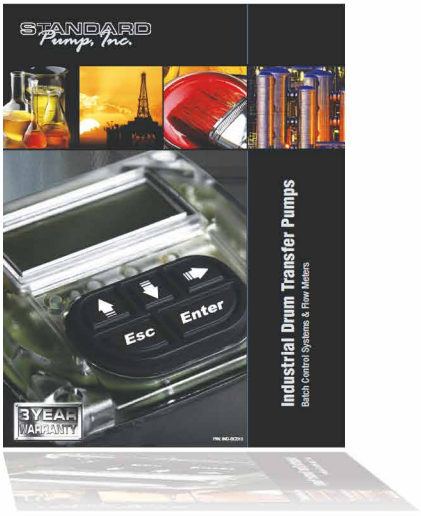
Wall Bracket

PART NUMBER	DESCRIPTION
9006	Stainless Steel Wall Storage Bracket is Designed for Pump Storage

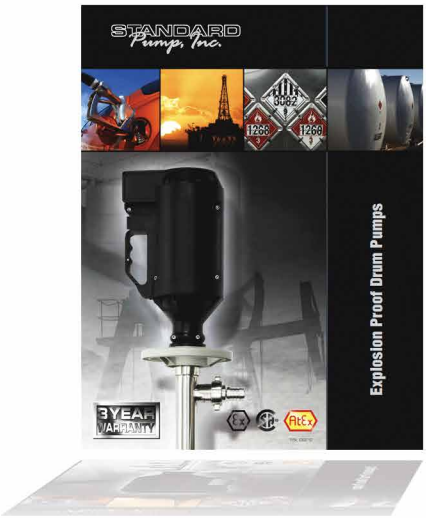
Additional Products



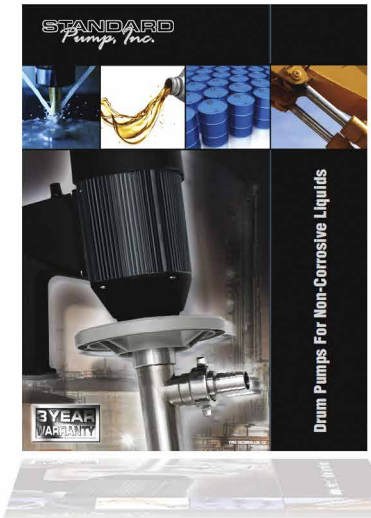
DEF Drum Pumps



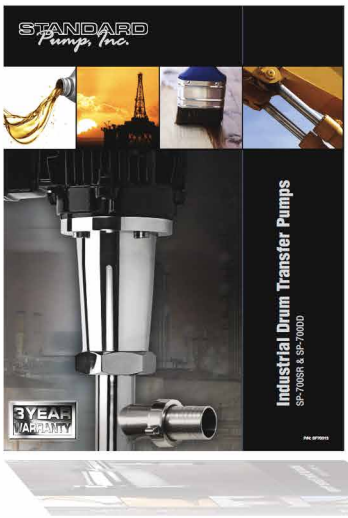
Metering Systems



Hazardous Duty Pumps



Drum Pumps For Non-Corrosive Liquids



Progressive Cavity Drum Pumps

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