



SERFILCO®

SERIES 'DP' DRUM PUMPS

BULLETIN
P-402AF
SEPT. 2009

FAST, SAFE AND CONVENIENT DISPENSING OF LIQUIDS



- Superior quality materials and state-of-the-art manufacturing techniques with proven reliable design features.
- **PUMP TUBES**
 - Pump available in polypropylene, PPP high temperature polypro, CPVC, PVDF or 316 stainless steel.
 - Lengths of 27", 39", 47", 60" and 72".
 - Seal-less, one-piece outer tube with screw-on "foot".
No weak spin welds or glued components.
- **Easy on-site service. No special tools required.**
- **MOTORS**
 - Heavy duty 1.1 HP electric motors (open or TEFC) with variable speed control for precise delivery without splashback.
 - Explosion-proof and air driven motors

SERIES 'DP' Drum Pumps combine modern manufacturing techniques with proven and reliable design features. They are a convenient and efficient means of transferring and dispensing most liquid chemicals from drums, carboys and tanks.

These pumps are available in a selection of engineered plastics or polished 316 stainless steel thus providing a great range of chemical compatibility.

The pumps are available in lengths to meet your requirements and all pumps can be used interchangeably with any of our electric or air motors. They can

be quickly changed to meet particular pumping or motor requirements.

Simply insert the pump into the liquid for immediate pumping. No priming is necessary since the rotor is located at the bottom end of the pump. Flow may be controlled with the unique speed control knob on the ODP-S and ENC-S motors to prevent splashing and control the volume. Keep these handy pumps on location throughout your plant for convenient solution transfer.



DRUMS & BARRELS



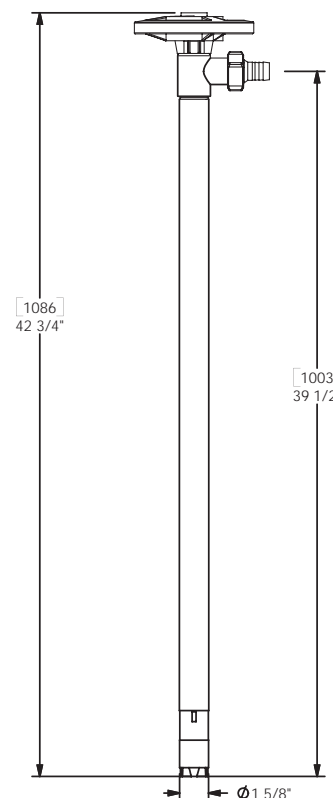
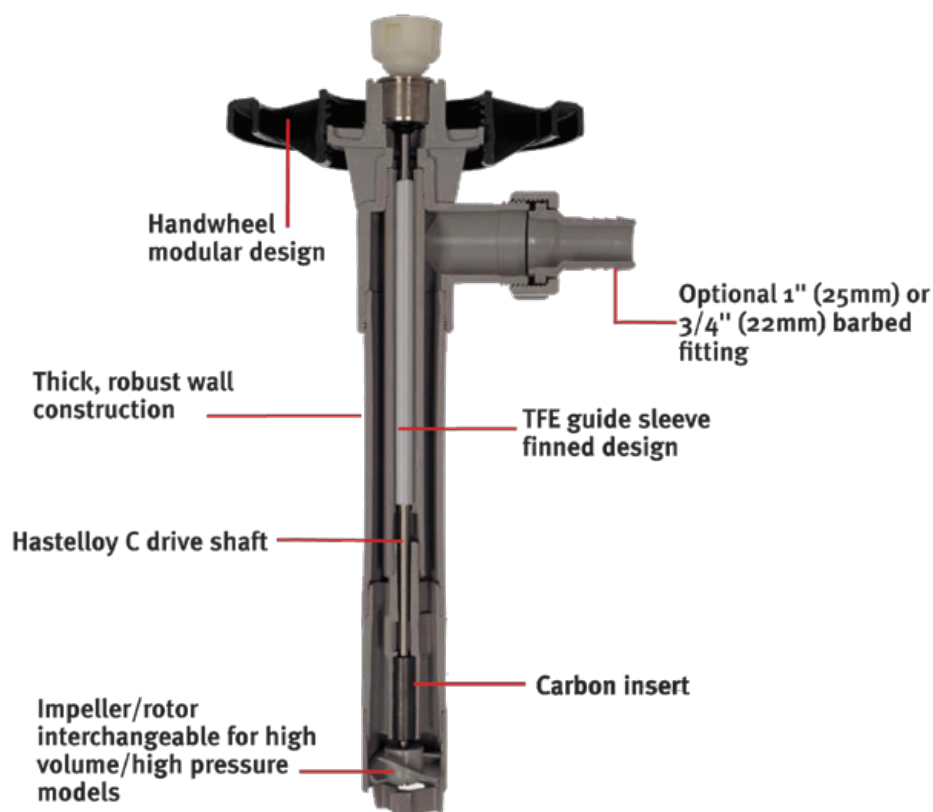
LABORATORY



LARGE STORAGE VESSELS

Pump tubes are designed with threaded joints for easy maintenance and individual component replacement without special tools. Our guide sleeves are PTFE, with a specially extruded fin which secures it inside the inner tube.

We utilize a seal grade carbon for our lower bushing (pure carbon 6038C), the most chemically resistant carbon available. Our shafts are Hastelloy® C-276 (PP, PPP, CK and KY models), or 316 stainless steel (SS models).



Empties a 55 U.S. gallon (200L) drum in less than 2 minutes.

Design: Seal-less / Centrifugal
Viscosity: 1500 Cps/mPas (ODP-S, ENC-S)
750 Cps/mPas (EXP-UL, AIR (F))
450 Cps/mPas (AIR (B))

Discharge Options: 1" (25mm) barb
3/4" (22mm) barb
Maximum
Specific Gravity: 1.8

⚠ SAFETY PRECAUTIONS

Verify the chemical compatibility of the material of your pump with the liquid you are pumping. Never use a pump that is not chemically compatible with the fluids you are pumping or serious bodily harm, fire or explosion could result.

The high velocity flow of liquid through a pump could create static electricity. All pumps and containers must be properly grounded and bonded to prevent static discharge and sparking, which could cause electric shock, fire or explosion.

A ground wire should be used on any explosion-proof motor as well as the container when transferring explosive material. This warning pertains to electric and pneumatic motors.

Only metallic pumps should be used for transferring flammable or explosive liquids. Do not pump an explosive or flammable liquid with ODP or ENC motors.

Follow all safety recommendations regarding clothing and goggles, which should be worn when using these pumps.

TO ORDER, use Price Code Number

PP POLYPROPYLENE

APPLICATIONS:

Most chemically aggressive liquids such as acids, salt solutions and solutions which corrode or oxidize metals, such as hydrofluoric or sulfuric acid.

Maximum liquid temperature 130°F (54°C).

⚠ Not for use with flammable liquids.

PUMP MODEL NUMBER*	PRICE CODE NUMBER*	MATERIALS OF CONSTRUCTION	LENGTH	DIA.	FOR HOSE SIZE**
PP8327-1	52-1008	Polypropylene w/Hastelloy® C276, PTFE, carbon	27" (690 mm)	1-5/8" (41mm)	1"
PP8339-1	52-1000		39" (1000 mm)		
PP8347-1	52-1001		47" (1200 mm)		
PP8360-1	52-1003		60" (1525 mm)		
PP8372-1	52-1005		72" (1825 mm)		

PPP HIGH TEMPERATURE POLYPROPYLENE APPLICATIONS:

Engineered for transferring high temperature corrosive liquids. Robust PPP polypropylene ensures chemical resistance and excellent heat deflection against light and mildly aggressive liquids.

Maximum liquid temperature 175°F (80°C).

⚠ Not for use with flammable liquids.

PUMP MODEL NUMBER*	PRICE CODE NUMBER*	MATERIALS OF CONSTRUCTION	LENGTH	DIA.	FOR HOSE SIZE**
PPP8327-1	52-6000	High temperature Polypropylene w/Hastelloy® C276, PTFE, carbon	27" (690 mm)	1-5/8" (41mm)	1"
PPP8339-1	52-6001		39" (1000 mm)		
PPP8347-1	52-6002		47" (1200 mm)		
PPP8360-1	52-6003		60" (1525 mm)		
PPP8372-1	52-6004		72" (1825 mm)		

CK CPVC / PVDF

APPLICATIONS:

Used for pumping aggressive solutions such as sodium hypochlorite or for higher temperature applications where polypropylene is not suitable.

Maximum liquid temperature 190°F (90°C).

⚠ Not for use with flammable liquids.

PUMP MODEL NUMBER*	PRICE CODE NUMBER*	MATERIALS OF CONSTRUCTION	LENGTH	DIA.	FOR HOSE SIZE**
CK8327-1	52-5200	CPVC and PVDF w/Hastelloy® C276, PTFE, carbon	27" (690 mm)	1-5/8" (41mm)	1"
CK8339-1	52-5201		39" (1000 mm)		
CK8347-1	52-5202		47" (1200 mm)		
CK8360-1	52-5203		60" (1525 mm)		
CK8372-1	52-5204		72" (1825 mm)		

KY PVDF

APPLICATIONS:

Capable of pumping highly aggressive solutions which are not compatible with other thermoplastics.

Maximum liquid temperature 180°F (82°C).

⚠ Not for use with flammable liquids.

PUMP MODEL NUMBER*	PRICE CODE NUMBER*	MATERIALS OF CONSTRUCTION	LENGTH	DIA.	FOR HOSE SIZE**
KY8327-1	52-4004	Natural PVDF w/Hastelloy® C276, PTFE, carbon	27" (690 mm)	1-5/8" (41mm)	1"
KY8339-1	52-4000		39" (1000 mm)		
KY8347-1	52-4001		47" (1200 mm)		

SS 316 STAINLESS STEEL

APPLICATIONS:

Most solvents and organic acids, as well as salt solutions, nitrous acids, dyes, all alkalies, potable liquids to 200°F (93°C). All components are polished for a quality finish.

Maximum liquid temperature 180°F (82°C).

⚠ For use with flammable or explosive liquids.

PUMP MODEL NUMBER*	PRICE CODE NUMBER*	MATERIALS OF CONSTRUCTION	LENGTH	DIA.	FOR HOSE SIZE**
SS8339-1	52-2000	316 stainless steel, PTFE, carbon	39" (1000 mm)	1-5/8" (41mm)	1"
SS8347-1	52-2001		47" (1200 mm)		
SS8360-1	52-2002		60" (1525 mm)		
SS8372-1	52-2003		72" (1825 mm)		

* For high head pump – Add **H** to Model Number and Price Code No.

** for 3/4" hose connections, see Accessories on page 8.

All pumps are provided with a 1" stainless steel hose clamp.
Stainless steel models also include bonding and grounding cables.

Registered trademarks:

Viton - DuPont Dow Elastomers; Teflon - DuPont;
Hastelloy - Haynes, International



TO ORDER, use Price Code Number

ODP-S

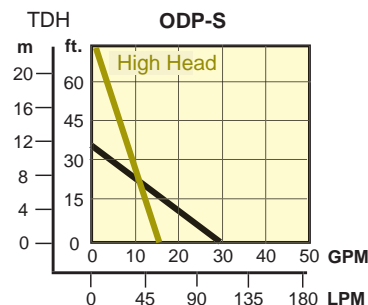


ODP-S OPEN DRIP-PROOF MOTOR w/speed control

1.1 HP (825 watts). Drip-proof motor in rugged glass reinforced plastic housing. Speed control knob allows for efficient, controlled liquid dispensing. ON/OFF switch conveniently located for single hand, thumb control. Resettable thermal overload protected motor. Cartridge brush design extends life and greatly reduces replacement service time. Includes 16 ft. cord w/molded plug. Not suitable for hazardous duty. For viscosities up to 1500 cps or specific gravity up to 1.8. Weight: 8.8 lbs. (4 kg.)

MODEL NO.	PRICE CODE NO.	MOTOR VOLTAGE
ODP-S-115	52-8000	115V/1/50-60
ODP-S-240	52-8001	230-240V/1/50-60

Not for use with flammable liquids.



ENC-S

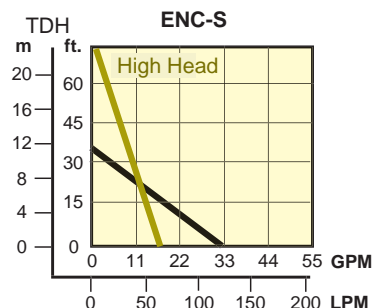


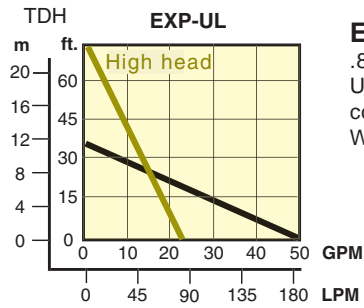
ENC-S SEVERE DUTY TOTALLY ENCLOSED MOTOR w/speed control

1.1 HP (825 watts). Totally enclosed motor in anodized aluminum housing for extra protection. Speed control knob allows for efficient, controlled liquid dispensing. ON/OFF switch conveniently located for single hand, thumb control. Resettable thermal overload protected motor. Cartridge brush design extends life and greatly reduces replacement service time. Includes 16 ft. cord w/molded plug. For viscosities to 1500 cps or specific gravity up to 1.8. Not suitable for hazardous duty. Weight: 12 lbs. (6 kg.)

MODEL NO.	PRICE CODE NO.	MOTOR VOLTAGE
ENC-S-115	52-3000	115V/1/50-60
ENC-S-240	52-3001	220-240V/1/50-60

Not for use with flammable liquids.



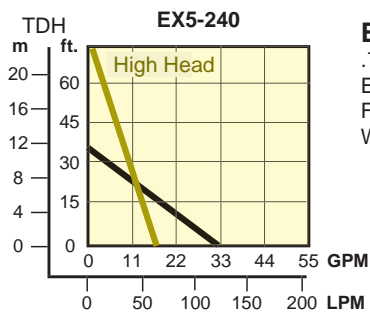


EXP-UL EXPLOSION-PROOF MOTOR

.83 HP (620 watt input/450 watt output). Explosion-proof motor in aluminum housing. C.S.A. and U.L. listed Class I, Groups C and D. Thermal overload protected, automatic reset. Includes 16 ft. cord, no plug. For viscosities up to 750 cps or specific gravity up to 1.8. Includes grounding cable. Weight: 20 lbs. (9.5 kg.)

MODEL NO.	PRICE CODE NO.	MOTOR VOLTAGE
EXP-UL-115	55-0744	115V/1/50-60

For flammable or explosive liquids.



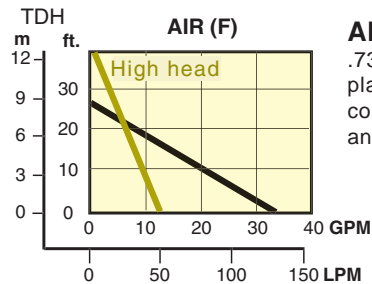
EX5-240 EXPLOSION-PROOF MOTOR

.73 HP (550 watts). Engineered for use in hazardous duty locations. EEx de IIA T5 EN50014, 96D.119 509 EN 50018. For viscosities to 750 cps or specific gravity to 1.8. Includes grounding cable. Weight: 24lbs. (11.0 kg.)

MODEL NO.	PRICE CODE NO.	MOTOR VOLTAGE
EX5-240	55-7167	220-240V/1/50-60

For flammable or explosive liquids.

EX5-240



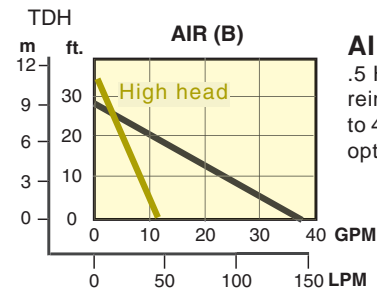
AIR (F) AIR DRIVEN MOTOR

.73 HP (550 watts), 28 cu. ft./min. @ 90 PSI, 10,000 RPM. Aluminum motor housing is plastisol coated to prevent sparking. Includes muffler, filter, and trigger valve for flow control. For viscosities to 750 cps or specific gravity to 1.75. Air line filter, PSI regulator and automatic oiler recommended. Weight: 3.5 lbs. (1.6 kg.)

MODEL NO.	PRICE CODE NO.
AIR (F)	52-0100

May be used with flammable liquids.***

AIR (F)



AIR (B) AIR DRIVEN MOTOR

.5 HP (370 watts), 22 cu. ft./min. @ 90 PSI, 10,000 RPM. Aluminum motor housing, glass reinforced plastic pump mounting bracket. Not suitable for hazardous duty. For viscosities to 450 cps or specific gravity up to 1.6. Muffler included. When air supply line is fitted with an optional regulator, the pump output can be precisely controlled. Weight: 3 lbs. (1.4 kg.)

MODEL NO.	PRICE CODE NO.
AIR (B)	55-0701

May be used with flammable liquids.***

AIR (B)





Caution: Air motors are not recognized under any current Underwriters' Laboratory listing program. Consult a qualified safety engineer for suitability for use in hazardous area or with flammables

EVERYTHING YOU NEED FOR SAFE AND EFFICIENT LIQUID TRANSFER



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:	ODP-S
Pump assembly:	CPVC
Pump length:	39" (1000 mm)
PVC hose:	6 ft. (1.8 m), I.D. 1" (25 mm)
Dispensing nozzle:	1" (25 mm), polypropylene
Barrel adapter:	Polypropylene
Storage bracket:	Stainless steel
Max. viscosity:	1500 CPS / Mpas
Max. temperature:	190°F (90°C)

PRICE CODE NO.	VOLTAGE
52-9430	115V
52-9431	240V

PACKAGE 2 Acids & Alkalies

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

Motor type:	ODP-S
Pump assembly:	Polypropylene
Pump length:	39" (1000 mm)
PVC hose:	6 ft. (1.8 m), I.D. 1" (25 mm)
Dispensing nozzle:	1" (25 mm), polypropylene
Barrel adapter:	Polypropylene
Storage bracket:	Stainless steel
Max. viscosity:	1500 CPS / Mpas
Max. temperature:	130°F (55°C)

PRICE CODE NO.	VOLTAGE
52-9400	115V
52-9401	240V

PACKAGE 3 Concentrated Acid & Alkalies

Engineered for transferring very concentrated and extremely aggressive liquids. Common applications include: Sulfuric Acid 66 Baume, Propionic Acid, Concentrated Nitric - 98% and Hydrofluoric Acid.

Motor type:	ENC-S
Pump assembly:	PVDF
Pump length:	39" (1000 mm)
PVC hose:	6 ft. (1.8 m), I.D. 1" (25 mm)
Dispensing nozzle:	1" (25 mm), PVDF
Barrel adapter:	Polypropylene
Storage bracket:	Stainless steel
Max. viscosity:	1500 CPS / Mpas
Max. temperature:	175°F (80°C)

PRICE CODE NO.	VOLTAGE
52-9420	115V
52-9421	240V

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

Motor type:	ODP-S
Pump assembly:	Polypropylene
Pump length:	39" (1000 mm)
PVC hose:	6 ft. (1.8 m), I.D. 1" (25 mm)
Dispensing nozzle:	1" (25 mm), polypropylene
Flow meter:	Digital / polypropylene totalizer
Barrel adapter:	Polypropylene
Storage bracket:	Stainless steel
Max. viscosity:	300 CPS / Mpas
Max. temperature:	130°F (55°C)

PRICE CODE NO.	VOLTAGE
52-9500	115V
52-9501	240V

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

Motor type:	ENC-S
Pump assembly:	PVDF
Pump length:	39" (1000 mm)
PVC hose:	6 ft. (1.8 m), I.D. 1" (25 mm)
Dispensing nozzle:	1" (25 mm), PVDF
Flow meter:	Digital / PVDF totalizer
Barrel adapter:	Polypropylene
Storage bracket:	Stainless steel
Max. viscosity:	300 CPS / Mpas
Max. temperature:	175°F (80°C)

PRICE CODE NO.	VOLTAGE
52-9510	115V
52-9511	240V

PACKAGE 4 MEASUREMENT Acid & Alkalies

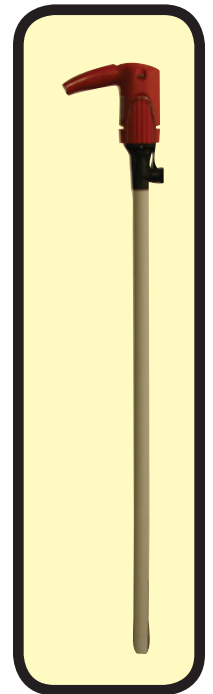
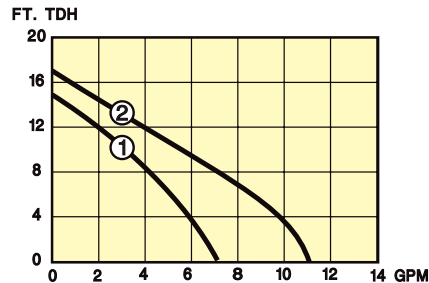
PACKAGE 5 MEASUREMENT Concentrated Acid & Alkalies



LABORATORY DRUM PUMP

- Ideal for low volume transfer
- Polypropylene
- 27" or 39" length

Versatile, lightweight pump for the transfer of acids or alkalis from glass carboys and similar containers. Pump will handle liquids to 250 cps. Motor is 160 watt with built-in overload and manual reset for safety. Includes 16' cord with molded plug, 6' of 1/2" vinyl hose and polypropylene flow nozzle.



TO ORDER, use Price Code No.

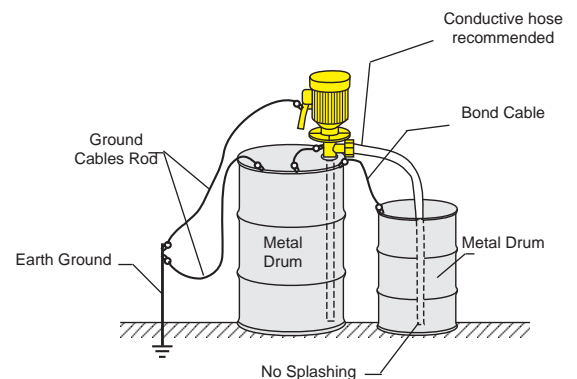
MODEL NO.	PRICE CODE NO.	CURVE	MATERIALS OF CONSTRUCTION	LENGTH	DIA.	HOSE SIZE	MAX. TEMP.	WATT MOTOR	WEIGHT
				inches	inches	inches	°F		Lbs.
PP8327-1-110	55-9000	1	Carbon Viton® Ceramic ETFE Hastelloy®C	27	1	1/2 - 3/4	115	115V/1/60	9.5
PP8327-2-110	55-9001	2			1-1/4			110V/1/50-60	
PP8327-2-220	55-9002	2			1-1/4			220V/1/50-60	
PP8339-1-110	55-9003	1		39	1	1/2 - 3/4	115	110V/1/50-60	10
PP8339-1-220	55-9004	1			1			220V/1/50-60	
PP8339-2-110	55-9005	2			1-1/4			110V/1/50-60	
PP8339-2-220	55-9006	2			1-1/4			220V/1/50-60	

ACCESSORIES

GROUND-BOND CABLE

When pumping flammable or combustible liquids from one container to another, both containers must be effectively bonded and grounded to prevent discharge of sparks of static electricity which could cause an explosion. Not for use with plastic pumps or ODP/ENC motors.

	PRICE CODE NO.
2 ground cables, 6' long with clamps	55-0246
1 bond cable, 10' long with clamps	55-0245
1 ground cable, 1' long with clamp for drum	55-0299



316 SS SQUEEZE CLAMP WITH HOSE CLAMP

To securely hold discharge hose or nozzle to tank flange or container while operating. Holds hose to wall bracket for storage. Prevents spillage and siphoning. Entire assembly is 316 stainless steel and hose clamp is welded onto hand clamp. Ends of clamp have a lip to grip drum flange.



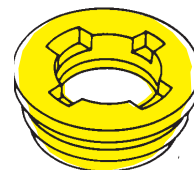
FOR HOSE SIZE I.D.	FORCE TO OPEN		SIZE	PRICE CODE NO
1/2" to 1"	12 lbs.	5.5 kg.	Small - 4.5" handle	99-0190 A
1" to 11/2"	22 lbs.	10 kg.	Large - 7.0" handle	99-0191 A

Increase the functional use of any drum pump

HOSE, CLAMPS & HOSEBARBS	PRICE CODE NO.
PVC HOSE - CLEAR -	
3/4" I.D. - per foot	55-0266
1" I.D. - per foot	55-0274
NYLON REINFORCED HOSE - CLEAR	
3/4" I.D. - per foot	22-0481
1" I.D. - per foot	22-0432
STAINLESS STEEL FLEXIBLE HOSE -	
3/4" NPT x 8' long (male x female)	22-0539A
PTFE RIBBED HOSE - 1" I.D. x 8' long	22-0463
HOSE CLAMP -	
3/4" stainless steel	22-0520
1" stainless steel	22-0505
DISCHARGE HOSE BARB -	
3/4" polypropylene	52-1051
3/4" PVDF	52-4051
DISCHARGE ADAPTER -	
3/4" MNPT, CPVC	55-6096
3/4" MNPT, 316 SS	55-6095
1" MNPT, 316 SS	55-6100
CHECK VALVE -	
3/4" FNPT, PVC	33-6051

BARREL ADAPTERS / FUME BARRIERS

For all pump models. To hold pump in vertical position and avoid exposure of motor to escaping vapors. Snug slip fit over pump tube allows for depth adjustment in drum. Fume barrier utilizes a Viton seal to hold corrosive fumes within the container.



	PRICE CODE NO.
SS, 2" NPT, for metal drum pumps	99-0157
PP, 2" NPT, for polypropylene, PVDF and metal drum pumps	99-0107A
PP, 2" buttress thread, for polypropylene and PVDF drum pumps	99-0108A
Fume barrier, stainless steel, 2" NPT	52-9019
Fume barrier, polypropylene, 2" NPT	52-9018

NOZZLE

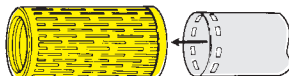
Provides controlled dispensing of liquid without splashing for safe chemical transfer. Ideal for dispensing into small containers, the nozzle features full one inch flow-through for maximum flow and allows hand held squeeze control for corrosive applications. 1" hose barb connection.



	PRICE CODE NO.
Polypropylene, Viton® and Hastelloy (shaft and spring)	52-0017
Stainless steel and Teflon®	52-0017S
PVDF	52-0017K
Aluminum	52-0017A

STRAINER

Recommended when pumping dirty liquids or where abrasive particles are present.

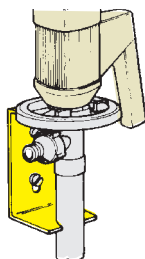


	PRICE CODE NO.
PP for PP pumps	55-0282A
SS for SS pumps	55-0283A
PVDF for PVDF pumps	55-0284

WALL BRACKET - Stainless Steel

A wall bracket is recommended for every pump. Proper storage will increase the life of the unit.

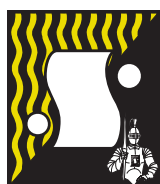
PRICE CODE NO.
55-0265



AIR FILTER/REGULATOR/LUBRICATOR

To protect all air driven motors, with polycarbonate bowl & pressure gauge (200 psi), 3/8" NPT

PRICE CODE NO.
55-1142



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