



HIGH VISCOSITY DRUM PUMPS

134

P-411A



INDUSTRIAL & SANITARY PUMP SERIES

- Flows to 17 GPM / 64 LPM
- Max Pressure 174 psi / 12 bar
- Rugged construction
All 316 stainless steel
Choice of stator elastomers
- Industrial Series 700 or
Sanitary Series 800
 - Speed Reduced pump (SR)
Max viscosity 25,000 cps/mPas
 - Direct Drive pump (DD)
Max viscosity 100,000 cps/mPas



Progressive Cavity Design


SERFILCO Progressive Cavity pumps are engineered to transfer high viscosity materials from drums, tanks and IBC's. Utilizing the principle of positive displacement, these pumps deliver a continuous flow with little product degradation. The series 700 (Industrial) and series 800 (Sanitary) pumps can transfer materials ranging in viscosity up to 100,000 cps/ mPas. All pumps are constructed from robust 316SS with a choice of stator elastomers.

Series 700 Industrial Pump

SERFILCO series 700 Industrial Pumps are commonly used throughout the industrial marketplace for trans-

ferring viscous materials such as polymers, paints, resins, adhesives and petroleum based products.

Series 800 Sanitary Pump

SERFILCO series 800 Sanitary Pumps are commonly used throughout the sanitary food processing, pharmaceutical, biotechnology, and cosmetic industries. Applications include the transfer of tomato paste, mayonnaise, pie fillings, salad dressing, shampoos, and cosmetic lotions. The series 800 pumps are manufactured according to  standards with FDA approved materials of construction. The pumps utilize a threaded design and tri-clamp fittings for quick cleaning, inspection and maintenance.



PAINTS



PHARMACEUTICAL



COSMETICS



PETROLEUM



Technical Data

Max. Viscosity: 25,000cps (mPAS)
Discharge Port: 1.5" / 38mm hose barb, optional 1.25" / 32mm
Wetted Material: Tube & Rotor Assembly: 316 Stainless Steel
 Stator Material: See below
Mechanical Seal: SiC/Viton/SiC
Motor Drives: ODP450, ODP-S, ENC-S, EXP-UL, AIR(F)
Fittings: Large Type Acme Thread design enables quick disassembly for cleaning and maintenance.

SR 700 Industrial Pump Series

- Easy Maintenance
- Threaded Components
- Interchangeable Motors Drives
- Continuous Flow
- Low Shearing Properties

MODEL NUMBER	PRICE CODE NO.	FLOW RATE**	MAX PRESSURE	PUMP LENGTH
SR700-71-27-*	52-7700*	7 GPM	87 PSI	27"
SR700-71-39-*	52-7703*			39"
SR700-71-47-*	52-7706*			47"
SR700-72-27-*	52-7701*	7 GPM	174 PSI	33"
SR700-72-39-*	52-7704*			45"
SR700-72-47-*	52-7707*			53"
SR700-181-27-*	52-7702*	17 GPM	87 PSI	27"
SR700-181-39-*	52-7705*			39"
SR700-181-47-*	52-7708*			47"

* Add to Model No. and Price Code No. ** Based on water
B for Buna-N
T for PTFE
V for Viton



SR 800 Sanitary Series



- Hygienic Design
- Easy to Clean & Maintain
- Gentle Product Treatment
- Continuous Flow

MODEL NUMBER	PRICE CODE NO.	FLOW RATE**	MAX PRESSURE	PUMP LENGTH
SR800-71-27-*	52-7800*	7 GPM	87 PSI	27"
SR800-71-39-*	52-7803*			39"
SR800-71-47-*	52-7806*			47"
SR800-72-27-*	52-7801*	7 GPM	174 PSI	33"
SR800-72-39-*	52-7804*			45"
SR800-72-47-*	52-7807*			53"
SR800-181-27-*	52-7802*	17 GPM	87 PSI	27"
SR800-181-39-*	52-7805*			39"
SR800-181-47-*	52-7808*			47"

* Add to Model No. and Price Code No. ** Based on water
FG for food grade Buna
T for PTFE



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



ODP450



ODP 450 OPEN DRIP-PROOF MOTOR

0.6 HP (450 watts). Drip proof motor in rugged glass reinforced plastic housing. Engineered for in corrosive environments. Includes 16 ft cord w/molded plug.

Weight: 5.5 lbs. (2.5 kg.)

MODEL NO.	PRICE CODE NO.	MOTOR VOLTAGE
ODP450-115	52-8008	115V/1/50-60
ODP450-240	52-8009	230-240V/1/50-60

Warning: Not suitable for pumping flammable or combustible liquids

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, double insulated motor. Cartridge brush design extends life and greatly reduces replacement service time. Includes 16 ft. cord w/molded plug.

Weight: 8.8 lbs. (4 kg.)

MOTOR 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

Warning: Not suitable for pumping flammable or combustible 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, double insulated motor. Cartridge brush design extends life and greatly reduces replacement service time. Includes 16 ft. cord w/molded plug.

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

Warning: Not suitable for pumping flammable or combustible liquids

EXP-UL



EXP-UL EXPLOSION-PROOF MOTOR

.83 HP (620 watts)**. 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.

Weight: 20 lbs. (9.5 kg.)

MODEL NO.	PRICE CODE NO.	MOTOR VOLTAGE
EXP-UL-115	55-0744	115V/1/50-60
EX5-240*	55-7167	220-240V/1/50

*Protection class (PTB): EE_x de 11C T6

** 620 watt input / 430 watt output

May be used for pumping flammable or combustible liquids

AIR (F)



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. 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

Warning: Not suitable for pumping flammable or combustible liquids

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.



Technical Data

Design: Progressive Cavity / Positive Displacement
Max. Viscosity: 100,000cps (mPAS)
Discharge Port: 1.5" / 38mm hose barb, optional 1.25" / 32mm
Wetted Material: Tube & Rotor Assembly: 316 Stainless Steel
 Stator Material: See below
Mechanical Seal: SiC/Viton/SiC
Motor Drives: Pneumatic or electric; B phase / 50-60 Hz
 See page 4 for motor selection.
Fittings: Large Type Acme Thread design enables quick disassembly for cleaning and maintenance.

DD 700 Industrial Pump Series

- Easy Maintenance
- Threaded Components
- Interchangeable Motors Drives
- Continuous Flow
- Low Shearing Properties

MODEL NUMBER	PRICE CODE NO.	FLOW RATE**	MAX PRESSURE	PUMP LENGTH
DD700-71-27-* DD700-71-39-* DD700-71-47-*	52-7710* 52-7713* 52-7716*	7 GPM	87 PSI	27" 39" 47"
DD700-72-27-* DD700-72-39-* DD700-72-47-*	52-7711* 52-7714* 52-7717*	7 GPM	174 PSI	33" 45" 53"
DD700-181-27-* DD700-181-39-* DD700-181-47-*	52-7712* 52-7715* 52-7718*	17 GPM	87 PSI	27" 39" 47"

* Add to Model No. and Price Code No.

** Based on water

B for Buna-N
T for PTFE
V for Viton



DD 800 Sanitary Series



- Hygienic Design
- Easy to Clean & Maintain
- Continuous Flow
- Low Shearing Properties

MODEL NUMBER	PRICE CODE NO.	FLOW RATE**	MAX PRESSURE	PUMP LENGTH
DD800-71-27-* DD800-71-39-* DD800-71-47-*	52-7810* 52-7813* 52-7816*	7 GPM	87 PSI	27" 39" 47"
DD800-72-27-* DD800-72-39-* DD800-72-47-*	52-7811* 52-7814* 52-7817*	7 GPM	174 PSI	33" 45" 53"
DD800-181-27-* DD800-181-39-* DD800-181-47-*	52-7812* 52-7815* 52-7818*	17 GPM	87 PSI	27" 39" 47"

* Add to Model No. and Price Code No.

** Based on water

FG for good grade Buna
T for PTFE



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



Industrial Electric Motor



Industrial Electric Motors 230-380-415-460v/3/50-60Hz

MODEL	PRICE CODE NO.	HP	KW	RPM	ENCLOSURE	SHIPPING WT. LBS (Kg)
DD-500	52-8010	0.75	,55	750-900	TEFC (IP55)	40 (18)
DD-510	52-8011	1	,75	750-900	TEFC (IP55)	52 (24)
DD-520	52-8012	1.5	1,1	750-900	TEFC (IP55)	58 (25)

Sanitary Electric Motor



Sanitary Electric Motors 230-380-415-460v/3/50-60Hz

MODEL	PRICE CODE NO.	HP	KW	RPM	ENCLOSURE (WASHDOWN)	SHIPPING WT. LBS (Kg)
DD-502	52-8020	0.75	,55	750-900	TEFC (IP55)	40 (18)
DD-512	52-8021	1	,75	750-900	TEFC (IP55)	52 (24)
DD-522	52-8022	1.5	1,1	750-900	TEFC (IP55)	58 (25)

Industrial Pneumatic Motors

Industrial Pneumatic Motor



MODEL	PRICE CODE NO.	HP	KW	RPM	AIR CONSUMPTION	SHIPPING WT. LBS (Kg)
DD-A4	52-8030	2	1,5	300-900	80 CFM @ 100 psi 37 L/Sec @ 7 Bar	12 (5)
DD-A6	52-8031	4	3,0	300-900	130 CFM @ 100 psi 65 L/Sec @ 7 Bar	24 (11)
DD-A8	52-8032	5	3,7	300-900	170 CFM @ 100 psi 80 L/Sec @ 7 Bar	26 (12)

Sanitary Pneumatic Motors

Sanitary Pneumatic Motor



MODEL	PRICE CODE NO.	HP	KW	RPM	AIR CONSUMPTION	SHIPPING WT. LBS (Kg)
DD-A4FP	52-8040	2	1,5	300-900	80 CFM @ 100 psi 37 L/Sec @ 7 Bar	12 (5)
DD-A6FP	52-8041	4	3,0	300-900	130 CFM @ 100 psi 65 L/Sec @ 7 Bar	24 (11)
DD-A8FP	52-8042	5	3,7	300-900	170 CFM @ 100 psi 80 L/Sec @ 7 Bar	26 (12)

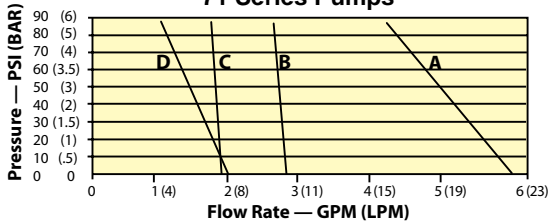
NOTE: Optimal pneumatic motor speed is 300-900 RPM



750 RPM 50 Hz Operation

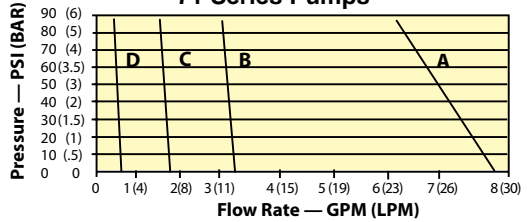
900 RPM 60 Hz Operation & Pneumatic Motors

71 Series Pumps



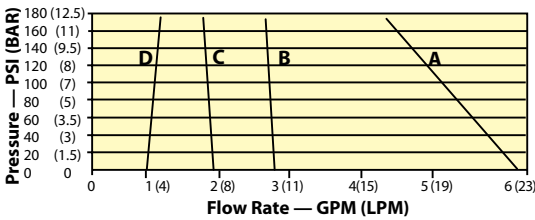
CURVE	VISCOSITY (cps)	HP	KW
A	1+	.5	.37
B	10,000+	1	.75
C	20,000+	1	1.2
D	30,000+	1.5	1.2

71 Series Pumps



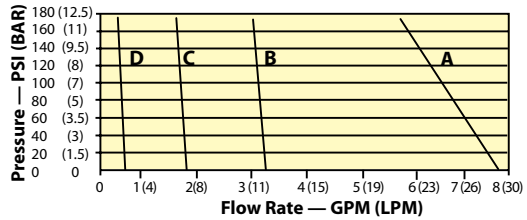
CURVE	VISCOSITY (cps)	HP	KW
A	1+	.5	.37
B	10,000+	1	.75
C	20,000+	1	1.2
D	30,000+	1.5	1.2

72 Series Pumps



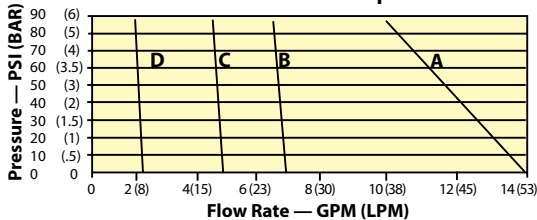
CURVE	VISCOSITY (cps)	HP	KW
A	1+	.5	.37
B	10,000+	1	.75
C	20,000+	1	1.2
D	30,000+	1.5	1.2

72 Series Pumps



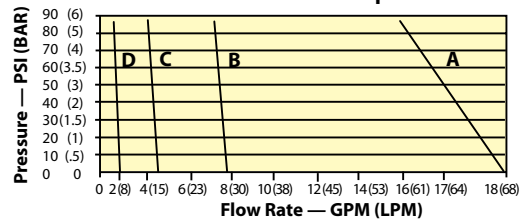
CURVE	VISCOSITY (cps)	HP	KW
A	1+	.5	.37
B	10,000+	1	.75
C	20,000+	1	1.2
D	30,000+	1.5	1.2

181 Series Pumps



CURVE	VISCOSITY (cps)	HP	KW
A	1+	.5	.37
B	10,000+	1	.75
C	20,000+	1	1.2
D	30,000+	1.5	1.2

181 Series Pumps



CURVE	VISCOSITY (cps)	HP	KW
A	1+	.5	.37
B	10,000+	1	.75
C	20,000+	1	1.2
D	30,000+	1.5	1.2





HOSE & CLAMPS

Price Code

NYLON REINFORCED HOSE-CLEAR

1 1/2" I.D. - per foot.....

22-0434

WIRE REINFORCED HOSE

1 1/2" I.D. - per foot.....

22-0528

HIGH PRESSURE TRANSFER HOSE

Tube: Black, oil resistant synthetic rubber. (Nitrile). Reinforcement: One braid of high tensile steel wire. Cover: Black, oil and abrasion resistant synthetic rubber. Max. working pressure 725 psi. Max. temp. 180° F

1 1/2" I.D. - per foot.....

52-9039

PLICORD® GRAY FOOD TRANSFER HOSE

Construction: White Chemivic® synthetic rubber (FDA/USDA, 3A Sanitary Standard 18-03 complaint). Cover: Spiral-plyed synthetic fabric with Galvanized Wire helix. Max. working pressure 150 psi. Max. temp. 180°F

1 1/2" I.D. - per foot.....

52-9037

VINTNER™ FOOD TRANSFER HOSE (High Pressure)

For handling in-plant and/or tank truck transfer of wine, beer, potable water and other nonoily, liquid foodstuffs. Construction: White Chlorobutyle (FDA/USDA, 3A Sanitary Standard 18-03 complaint). Cover: Grey Versigard® synthetic rubber. Max. working pressure 250 psi. Max. temp. 220°F

1 1/2" I.D. - per foot.....

52-9036

DISCHARGE HOSE CLAMP

Malleable iron two bolt clamp. Gripping ridges, reinforced lugs. Hose size from 1-48/64" to 2-3/64" (44.50 mm to 27 mm).....

52-9038

PUMP HANGER

For DD direct drive pumps constructed of 304SS tubing.

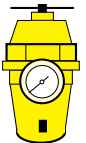


Price Code No.

52-0743

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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