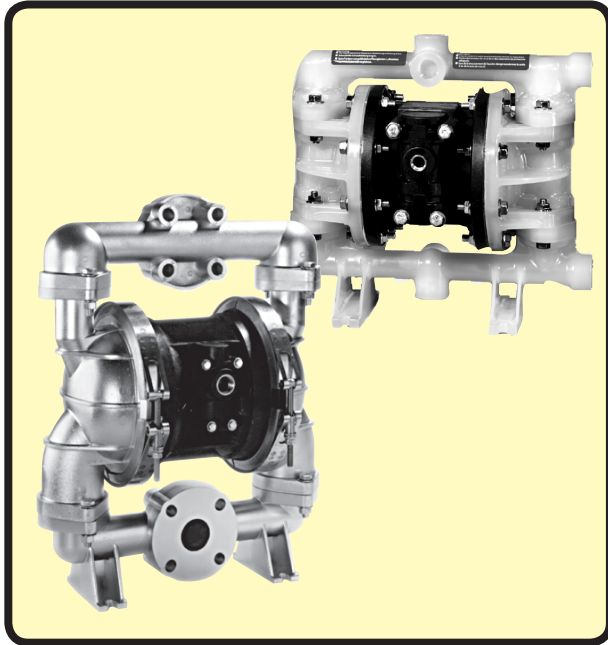


PUMP ANYTHING THAT CAN POUR SAFELY AND RELIABLY



- **Wide selection of materials**
SS - 316 stainless steel PP - Polypropylene
AL - Aluminum K - PVDF
NSS - Conductive nylon
- **Selection of diaphragms and elastomers**
TF - Teflon (PTFE)
N - Geolast/Nitrile
L - Santoprene/EPDM
V - Viton
- **Flows to 180 U.S. GPM (681 l/m)**
1/4" - 2" sizes —
- **Patented lube-free air system**
- **Will not stall at slow speeds**
- **Self-priming**
- **Runs dry**

Here is a line of remarkably rugged and durable self-priming, double diaphragm pumps. Lube-free and non-stalling, all models will handle any product that pours, from clear water to highly viscous, abrasive and chemically aggressive materials. Proven to handle suspended solids and abrasives without damage to the product or the pump.

The unique pump design utilizes far fewer parts than other pumps on the market. This results in

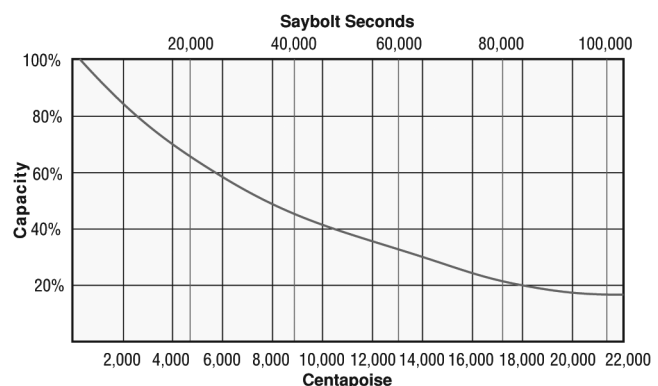
longer operating life and easier maintenance at a lower cost.

Since these pumps are driven by compressed air, there is no need for shielded electrical connections or explosion-proof motors. All models can run dry because there are no close fitting or sliding parts in the fluid section. Flow rates can be controlled to produce from zero to maximum flow simply by increasing or decreasing air flow or pressure.

INSTALLATION

1. A lube-free, clean, dry compressed air source (or any non-flammable, compressed gas) is recommended. Use a filter that is capable of filtering out particles larger than 50 microns.
2. Pumps should be mounted in an upright position with the exception of 1/4" models which may be rotated 360° to suit the application.
3. Install a particle fluid filter on the fluid suction line when particles in the fluid exceed the maximum particle size specification of the pump or particles are sharp enough to cut the diaphragms.
4. Never restrict fluid suction lines by means of reduced pipe size (smaller than pump inlet size) or control the pump with valves on the fluid inlet side of the pump.
5. Limit fluid inlet pressure to 10 PSIG or (.68 BAR)

HIGH VISCOSITY APPLICATIONS





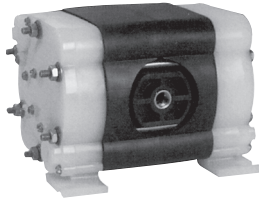
AIR OPERATED | DIAPHRAGM PUMPS

P-605_W
Page 2

2900 MacArthur Blvd. Northbrook, IL. USA 60062 www.serfilco.com (800) 323 - 5431

1/4"

BOLTED

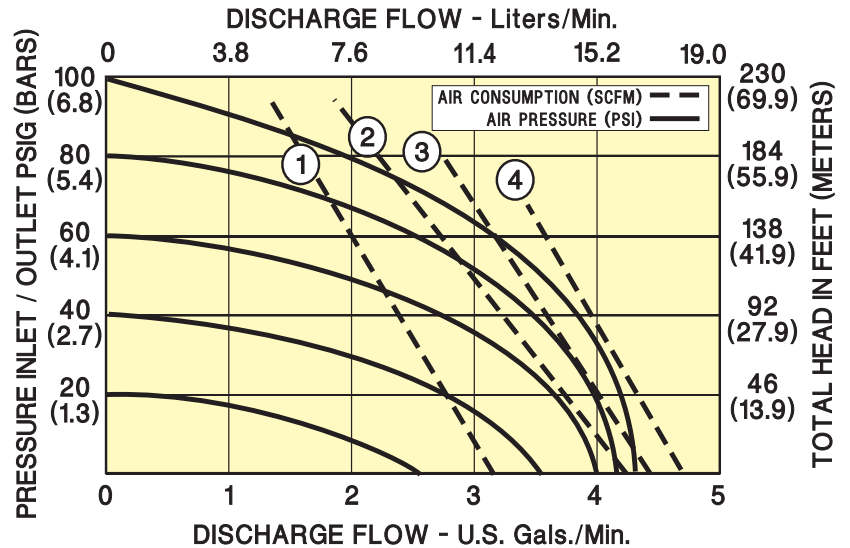


SPECIFICATIONS

Capacity:
Adjustable0-4.3 GPM (16 liters/min.)
Maximum temperature:
PVDF200°F
(93°C)
Other models150°F (66°C)
Maximum air pressure:
All Models100 PSI (6.8 bars)
Dry lift capacity @ 100 PSI (6.8 bars):15 ft. (4.5 meters)
Maximum solids:1/16" (1.6 mm)
Air supply:
Inlet1/4" FNPT
Outlet1/4" FNPT
Fluid inlet / discharge:1/4" FNPT

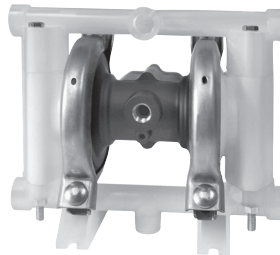
PLASTIC MODELS:

PPBN-1/4 PPBTF-1/4 PPBL-1/4 NSSBTF-1/4
KBTF-1/4 KBL-1/4



3/8"

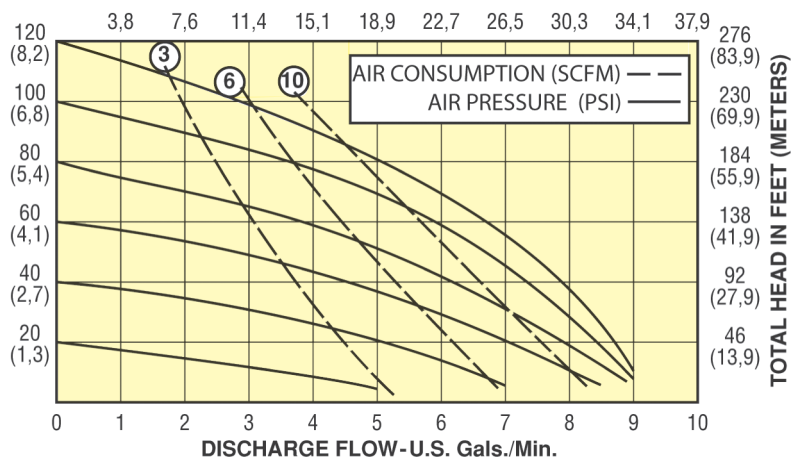
BAND CLAMP



PLASTIC MODELS:

PPN-3/8 PPTF-3/8N SSTF-3/8
KTF-3/8 KL-3/8

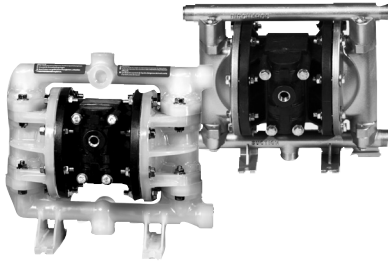
Capacity:
Adjustable0 - 9 GPM (34.0 liters/min.)
Maximum temperature:
PVDF model200°F (93°C)
Other models150°F (66°C)
Maximum air pressure:
All Models120 PSI (8.2 bars)
Dry lift capacity
Models w. PTFE Balls10 ft (3 meters)
Models with Max-Pass™ valves17 ft (5.2 meters)
Maximum solids:
Max-Pass™1/4" (6.4mm)
PPTF, NSSTF, KTF:1/16" (3.2 mm)
Air supply:
Inlet1/4" FNPT
Outlet3/8" FNPT
Fluid inlet / discharge:3/8" FNPT





1/2"

BOLTED



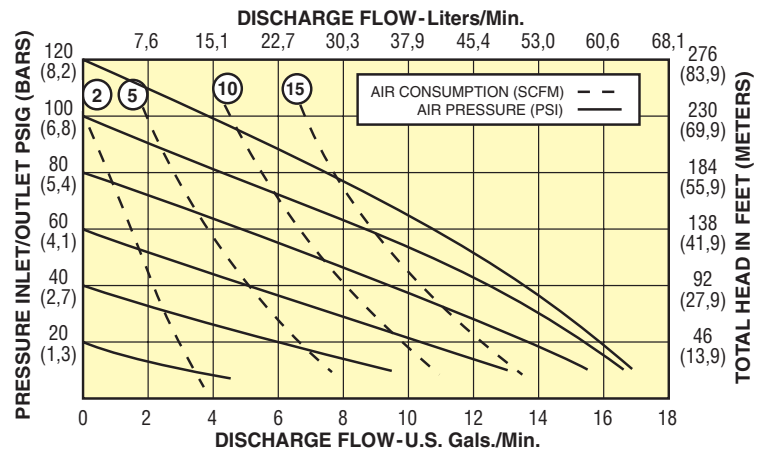
PLASTIC MODELS: PPBN-1/2, PPBTF-1/2, PPBL-1/2, PPBV-1/2, KBTF-1/2, KBL-1/2, KBV-1/2, NSSBTF-1/2

METALLIC MODELS: ALBN-1/2, ALBTF-1/2, ALBL-1/2, SSBTF-1/2, SSBL-1/2, SSBN-1/2

SPECIFICATIONS

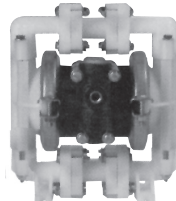
Capacity:	
Adjustable	0-17 GPM (64.6 liters/min.)
Maximum temperature:	
PVDF, AL and SS models	200°F (93°C)
Other models	150°F (66°C)
Minimum air pressure:	20 PSI (1.4 bar)
Maximum air pressure:	120 PSI (8.0 bars)
Dry lift capacity @ 120 PSI (8.0 bars):	10 ft. (3 meters)
Maximum solids:	1/8" (3.2 mm)
Air supply:	1/4" FNPT
Fluid inlet / discharge:	1/2" FNPT
(FBSP available. Specify when ordering.)	

¹ Stock models have a side port. Optional center, top or dual ports must be specified when ordering. Fluid is not separated within the single piece manifold when dual ports are specified.



1/2"

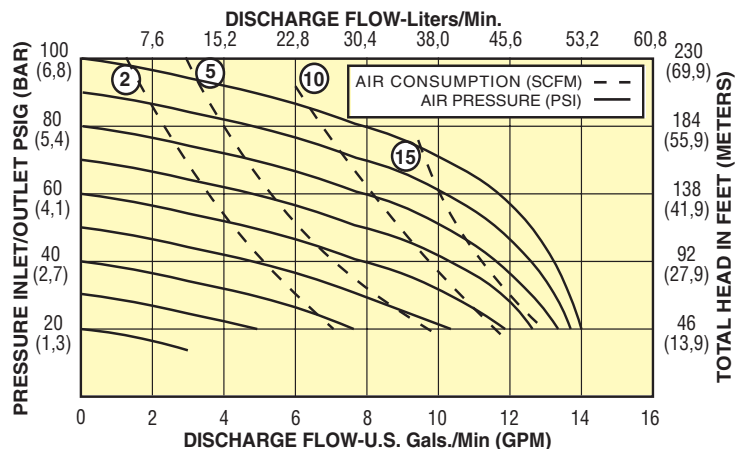
BAND CLAMP



PLASTIC MODELS: PPN-1/2, PPTF-1/2, PPL-1/2, KTF-1/2

SPECIFICATIONS

Capacity:	
Adjustable	0 - 14 GPM (53.2 liters/min.)
Maximum temperature:	
PVDF model	200°F (93°C)
Other models	150°F (66°C)
Minimum air pressure:	20 PSI (1.4 bars)
Maximum air pressure:	100 PSI (6.8 bars)
Dry lift capacity @ 100 PSI (6.8 bars):	10 ft. (3 meters)
Maximum solids:	1/8" (3.2 mm)
Air supply:	1/4" FNPT
Fluid inlet / discharge:	1/2" FNPT



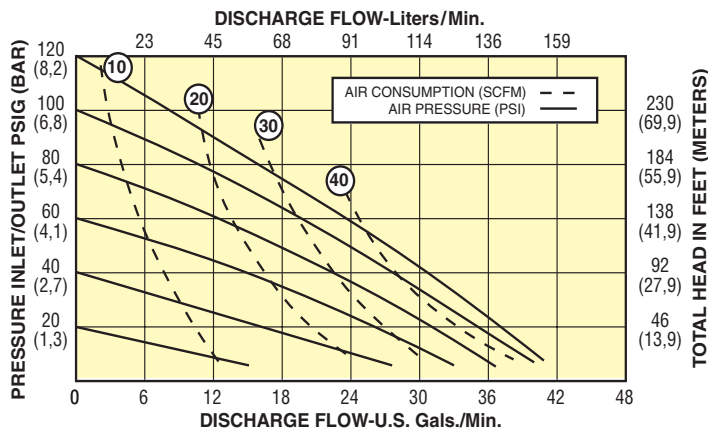
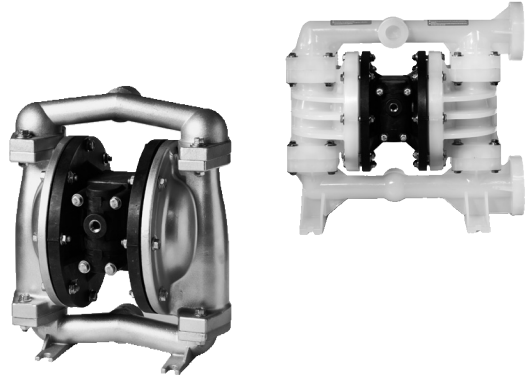


1"

BOLTED

PLASTIC MODELS: PPBN-1, PPBTF-1, PPBL-1, PPBV-1
KTBF-1, KBL-1, KBV-1

METALLIC MODELS: ALBN-1, ALBTF-1, ALBL-1,
SSBTF-1, SSBL-1, SSBN-1



SPECIFICATIONS

Capacity:
Adjustable 0 to 41 GPM (156 liters/min.)

Maximum temperature:
PVDF, AL and SS models200°F (93°C)
Other models150°F (66°C)

Minimum air pressure:20 PSI (1.4 bar)

Maximum air pressure:120 PSI (8.0 bars)

Dry lift capacity @ 120 PSI (8.0 bars):
Models w/TFE balls10 ft. (3 meters)
Other models15 ft. (4.5 meters)

Maximum solids:1/4" (6.4 mm)

Air supply:
Inlet1/4" FNPT
Outlet3/8" FNPT

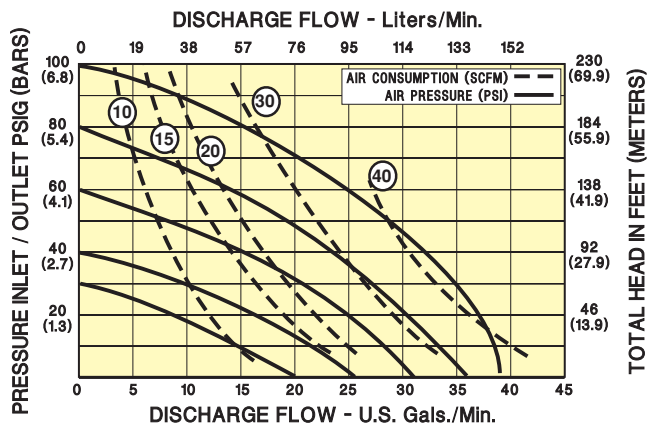
Fluid inlet / discharge:
Plastic Models1" Flange ANSI/DIN compatible
Metallic Models1" NPT

1"

BAND CLAMP



PLASTIC MODELS: PPN-1, PPTF-1, PPL-1,
KTF-1,



SPECIFICATIONS

Capacity:
Adjustable.. 0 to 40 GPM (152 liters/min.)

Maximum temperature:
PVDF model200°F (93°C)
Other models150°F (66°C)

Maximum air pressure:
PVDF model70 PSI (4.8 bars)
Other models100 PSI (6.8 bars)

Dry lift capacity @ 100 PSI (6.8 bars):
Models w/TFE balls10 ft. (3 meters)
Other models15 ft. (4.5 meters)

Maximum solids:1/4" (6.4 mm)

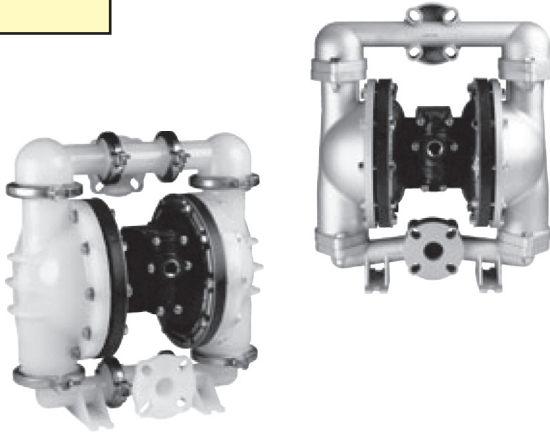
Air supply:
Inlet1/4" FNPT
Outlet3/4" FNPT
(Air flow control valve on plastic pumps,
1/4" FNPT)

Fluid inlet / discharge:1" FNPT



1-1/2"

BOLTED



PLASTIC MODELS: PPBN-1 1/2, PPBTF-1 1/2, PPBL-1 1/2, KBTF-1 1/2, KBL-1 1/2

METALLIC MODELS: ALBN-1 1/2, ALBTF-1 1/2, ALBL-1 1/2, SSBTF-1 1/2, SSBL-1 1/2, SSBN-1 1/2

SPECIFICATIONS

Capacity:

Adjustable 0 to 130 GPM (492 liters/min.)

Maximum temperature:

PVDF, AL & SS models.....200°F (93°C)
Other models.....150°F (66°C)

Minimum air pressure:.....20 PSI (1.2 bars)

Maximum air pressure:

All model.....120 PSI (8.2 bars)

Dry lift capacity @ 100 PSI (6.8 bars):

Model w/PTFE balls.....10 ft. (3 meters)
Other Models.....15 ft. (4.5 meters)

Maximum solids:1/4" (6.4 mm)

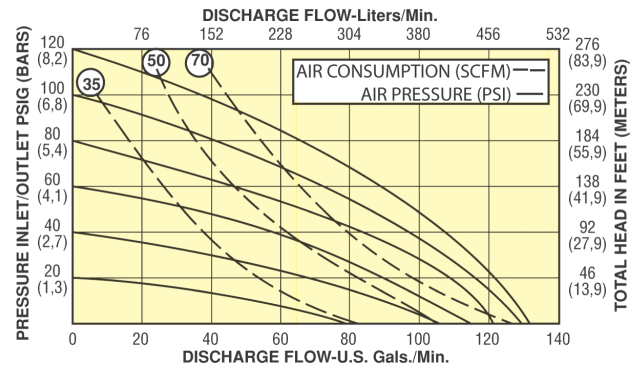
Air supply:

Inlet.....3/4" FNPT
Outlet.....3/4" FNPT

(Air flow control valve on plastic pumps,
3/4" FNPT)

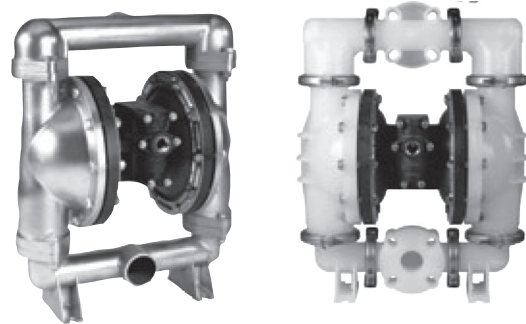
Fluid inlet / discharge:

All Models.....1 1/2" flange (38 mm)
(ANSI & DIN compatible)



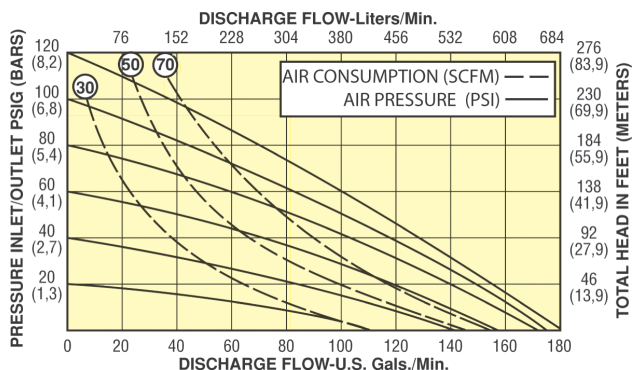
2"

BOLTED



PLASTIC MODELS: PPBN-2, PPBTF-2, PPBL-2, KBTF-2, KBL-2

METALLIC MODELS: ALBN-2, ALBTF-2, ALBL-2, SSBTF-2, SSBL-2, SSBN-2



SPECIFICATIONS

Capacity:

Adjustable..0 to 180 GPM (681 liters/min.)

Maximum temperature:

PVDF, AL & SS models.....200°F (93°C)
Other models.....150°F (66°C)

Minimum air pressure: 20 PSI (1.3 bars)

Maximum air pressure:

All model.....120 PSI (8.2 bars)

Dry lift capacity @ 100 PSI (6.8 bars):

Models w/PTFE balls.....10 ft. (3 meters)
Other Models.....15 ft. (4.5 meters)

Maximum solids:1/4" (6.4 mm)

Air supply:

Inlet3/4" FNPT

Outlet3/4" FNPT
(Air flow control valve on plastic pumps,
3/4" FNPT)

Fluid inlet / discharge:

Plastic Models.....2" flange (51mm)
(ANSI & DIN compatible)
Metal Models.....2" NPT Female

**TO ORDER, Use Price Code No.****BOLTED MODELS**

MODEL NUMBER *	MATERIAL OF CONSTRUCTION		PRICE CODE NUMBER				
	WETTED HOUSINGS**	DIAPHRAGM ELASTOMERS/ VALVE SEATS**	1/4"	1/2"	1"	1 1/2"	2"
			0-4 GPM (16 l/m)	0-14 GPM (65 l/m)	0-41 GPM (156 l/m)	0-130 GPM (492 l/m)	0-180 GPM (681 l/m)
PPBN- *	Polypropylene	Geolast® / Nitrile	55-7244-B	55-7287	55-7602	55-7615	55-7667
PPBTF- *	Polypropylene	PTFE	55-7245	55-7288	55-7603	55-7616	55-7668
PPBL- *	Polypropylene	Santoprene® / EPDM	55-7270	55-7289	55-7604	55-7617	55-7669
PPBV- *	Polypropylene	Viton	—	55-7290	55-7605	—	—
NSSBTF- *	Conductive Nylon	PTFE	55-7271	55-7292	—	—	—
KBTF- *	PVDF	PTFE	55-7247	55-7293	55-7606	55-7618	55-7629
KBL- *	PVDF	Santoprene® / EPDM	55-7286	55-7294	55-7607	55-7619	55-7630
KBV- *	PVDF	Viton	—	55-7295	55-7608	—	—
ALBN- *	Aluminum	Geolast® / Nitrile	—	55-7646	55-7655	55-7658	55-7649
ALBTF- *	Aluminum	PTFE / nylon	—	55-7647	55-7656	55-7659	55-7650
ALBL- *	Aluminum	Santoprene® / EPDM / PP	—	55-7648	55-7657	55-7660	55-7651
SSBTF- *	Stainless steel	PTFE	—	55-7643	55-7661	55-7664	55-7652
SSBL- *	Stainless steel	Santoprene® / EPDM	—	55-7644	55-7662	55-7665	55-7653
SSBN- *	Stainless steel	Geolast® / Nitrile	—	55-7645	55-7663	55-7666	55-7654

* Insert pump size to complete Model Number: i.e. PPBN - 1/4

** See Material notes on page 7

BAND CLAMP MODELS

MODEL NUMBER *	MATERIAL OF CONSTRUCTION		PRICE CODE NUMBER		
	WETTED HOUSINGS**	DIAPHRAGM ELASTOMERS/ VALVE SEATS**	3/8"	1/2"	1"
			0-9 GPM (34 l/m)	0-14 GPM (53 l/m)	0-40 GPM (152 l/m)
PPN- *	Polypropylene	Geolast® / Nitrile	55-7637	55-7120-B	55-7144-B
PPTF- *	Polypropylene	PTFE	55-7638	55-7118-A	55-7145-A
PPL- *	Polypropylene	Santoprene® / EPDM	55-7639	55-7248	55-7249
NSSTF- *	Conductive Nylon	PTFE	55-7640	—	—
KTF- *	PVDF	PTFE	55-7641	55-7110-A	55-7147-A
KL- *	PVDF	Santoprene® / EPDM	55-7642	—	—

* Insert pump size to complete Model Number: i.e. PPN-1/2

** See Material notes on Page 7



AIR OPERATED DIAPHRAGM PUMP Specifications and ordering information

Material notes:

1. Geolast is a nitrile blend and is a replacement for Buna-N or Neoprene®. Use chemical resistance information for Buna-N.
2. Santoprene is an EPDM blend and is highly resistant to some acids and bases. Use the chemical resistance information for EPDM.
3. Aluminum pumps have polypropylene valve seats, except aluminum w/ TFE models which have nylon valve seats.
4. All pumps built with TFE contain a backup diaphragm of Santoprene.
5. NSSTF pumps are constructed of 316SS filled nylon and include ground / bond lugs.
6. Air system constructed of polypropylene, except nylon and aluminum w/TFE models which have nylon air systems.

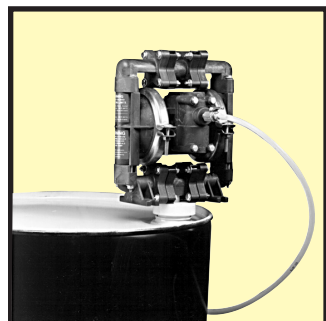
General product notes:

1. All pumps are lube-free and non-stalling. A clean, dry compressed air supply is all that is needed.
2. BSP thread models available. Consult Sales Department.
3. Flanges, available on 1½" and 2" sizes only, are slotted for DIN or ANSI compatibility.

SHIPPING WEIGHTS

HOUSING MATERIAL	SHIPPING WEIGHT LBS (kg)						
	1/4"	3/8"	1/2"	1" BOLTED	1" CLAMP	1-1/2"	2"
Polypropylene, Nylon	5 (2.3)	4 (1.7)	9 (4.1)	20 (9.1)	19 (8.6)	46 (21)	56 (25)
Conductive Nylon, PVDF	7 (3.2)	5 (2.3)	12 (5.4)	30 (13.7)	22 (9.9)	65 (29)	84 (38)
Aluminum	—	—	10 (4.5)	23 (10.5)	—	60 (27)	62 (29)
Stainless Steel	—	—	19 (8.6)	45 (20.4)	—	133 (60)	133 (60)

OPTIONAL EQUIPMENT



ACCESSORY KIT for drum transfer applications

Turns diaphragm pump into an ideal drum pump.

Includes: 39" polypropylene or PVDF suction tube with 2" NPT polypropylene barrel adapter.

PUMP SIZE	PRICE CODE NUMBER		
	PP	PVDF	AL
1/2"	44-7236	44-7239	44-7628
1"	44-7237	44-7240	—

AIR PRESSURE REGULATOR

Tamper-proof design with special removable key. Maximum inlet pressure is 250 PSIG. Outlet pressure range is 5 to 125 PSIG.

INLET FNPT	CFM @ 100 PSI	PRICE CODE NO.
1/4"	20	79-0305
1/2"	50	79-0306
3/4"	120	79-0307

REPAIR KIT

Typically includes ball and valve seats manifold O-rings and diaphragms (may vary depending on model)

PRICE CODE NUMBER

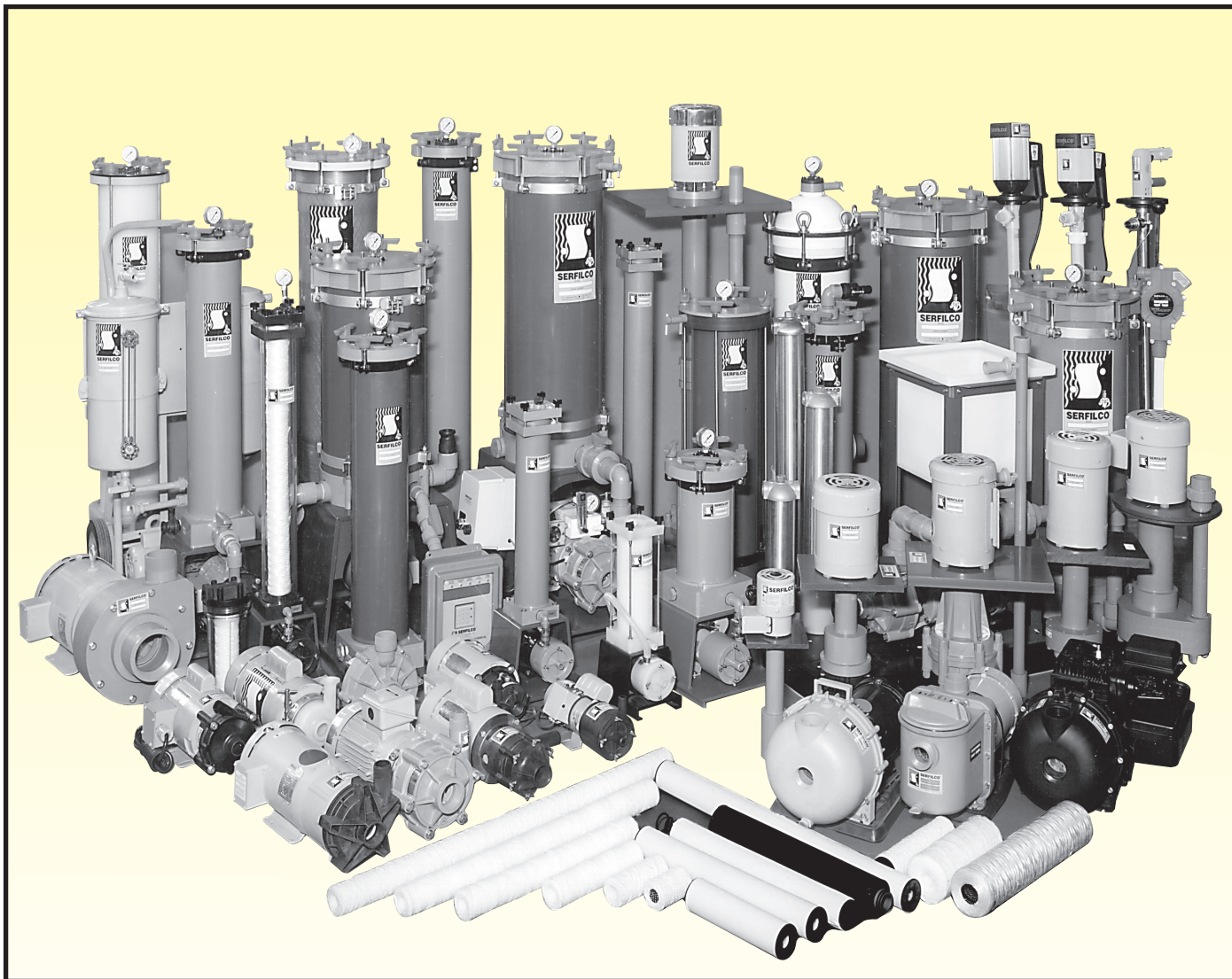
Add -k to pump price code number

GROUND-BOND CABLE KIT

Pumping of flammable or combustible liquids from one container to another requires proper grounding and bonding to prevent static discharge and explosion hazard. Only for use with metal or conductive pumps.

DESCRIPTION	PRICE CODE NO.
Ground cables, 2-6ft Bond cable, 10 ft Ground cable, 1 ft	55-0247

Also available from SERFILCO:



Your one-stop source for pumping, filtration and purification needs!

SERFILCO can help you realize the economic value of clarification and purification of your process solutions and waste streams. Our wide range of pumps, filters, packaged systems, accessories and related control instruments make it possible for you to take advantage of one-stop shopping for all of your liquid handling needs. With modern filtration technology at work in your facility, you can reduce waste, lower your manufacturing costs, and enhance product integrity.

We've been serving industry worldwide for 50 years. We're ready to serve you, too!

Registered trademarks:
Viton - DuPont Dow Elastomers
Santoprene - Advanced Elastomer Systems, L.P.
Geolast - F.C. Witt Assoc., Inc.