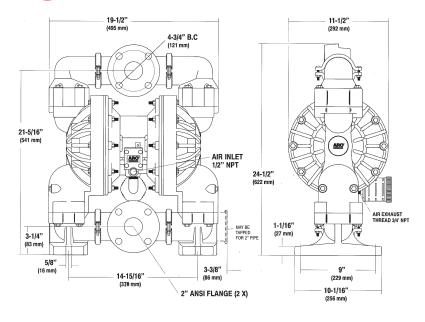
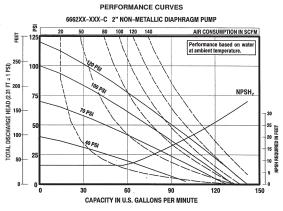
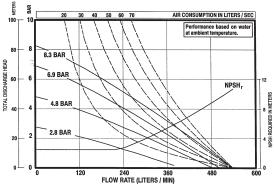
RATIO:	1:1
MAXIMUM G.P.M. (Liters):	145 (548)
DISPLACEMENT GALLONS (Liters) PER CYCLE:	.72 (2.7)
AIR INLET:	1/2-inch, NPT (F)
FLUID INLET:	ANSI Class 150, 2-inch Pipe Flange
FLUID OUTLET:	ANSI Class 150, 2-inch Pipe Flange
MAX. OPERATING PRESSURE PSI (bar):	120 (8.3)
SUSPENDED SOLIDS MAX. DIA. IN. (mm):	1/4-inch (6.4)
WEIGHT - LBS. (Kg):	62 (28) Polypropylene, 92 (42) Kynar(PVDF) For Cast Iron center section models, add 23 lbs. (10.4 kg.)
MAX. DRY SUCTION LIFT:	14 ft. (Rubber fitted)

Dimensional Data









Recommended Filter-Regulator (See Page 36)

Filter / Regulator: P29241-610

67080 - Polypropylene Flange Kit 2" NPT (F)

For complete airline connection kit, see page 32, item "B".

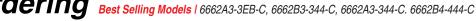
Pulsation Dampener, see page 25.

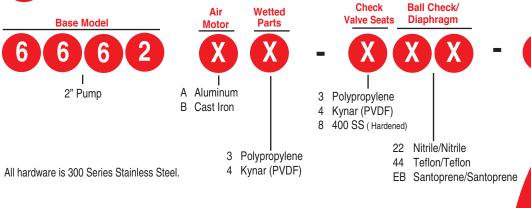
For Diaphragm Pump Accessories see pages 32-34.

P29241-610

For recommended key models, refer to the ARO diaphragm pump price book (Form 2240-2). If the specific model you seek is not in the price book, consult the factory for further selection assistance.







For aggresive high-flow applications



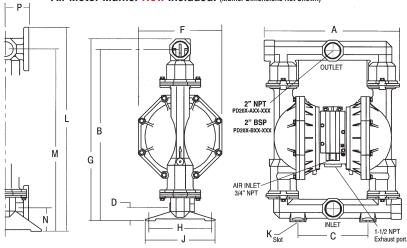
RATIO:	1:1
MAX. G.P.M. (Liters):	170 (644)
DISPLACEMENT GALLONS (Liters) PER CYCLE:	1.4 (5.3)
AIR INLET:	3/4-in. NPT (F)
AIR EXHAUST:	1-1/2" NPT (F)
FLUID INLET:	2" Ports (See table)
FLUID OUTLET:	2" Ports (See table)
MAX. OP. PRESSURE PSI (bar):	120 (8.3)
PASS SOLIDS MAX. DIA. IN. (mm):	1/4 (6.4)
WEIGHT LBS. (Kgs.):	64 (29) Aluminum 133 (60) Cast Iron 154 (70) Stainless Steel (Note: add 34 lbs. (15 kg) for Stainless or Cast Iron Motor)

• mensional Data

MAX. DRY SUCTION LIFT:

Air Motor Muffler Now Included! (Muffler Dimensions Not Shown)

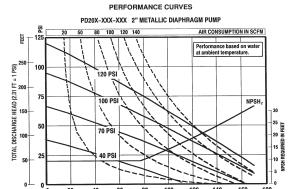
19 ft. (Rubber fitted)



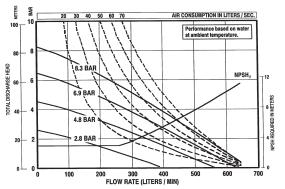
DIMENSIONS

- 19-3/4" (502 mm)
- 10-1/16" (256 mm)
- 12" (305 mm) 26-1/4" (667 mm)
- 9-1/16" (230 mm) 10-1/16" (256 mm)
- 9/16" (14 mm)

- 28-5/8" (727 mm) 25-5/8" (651 mm)
- 3-3/8" (86 mm)



CAPACITY IN U.S. GALLONS PER MINUTE





Recommended Filter-Regulator (See Page 36)

Filter / Regulator: P29241-610

For complete airline connection kit,

see page 32, item "B". Pulsation Dampener, see page 25.



For Diaphragm Pump Accessories see pages 32-34.

For recommended key models, refer to the ARO diaphragm pump price book (Form 2240-2). If the specific model you seek is not in the price book, consult the factory for further selection assistance.



Screened Inlet Kits Available. See Page 31.

rdering

Best Selling Models | PD20A-AAP-GGG, PD20A-ACP-AAA, PD20A-ASP-KTT, PD20A-AAP-KTT, PD20A-ASP-AAA, PD20C-ASS-KTT

Ball Check/ Center Seat **Base Model** Section Material Diaphragm The most advanced 2" Pump A Aluminum Plated Steel AA Santoprene/Santoprene process pump A NPT Cast Iron S Stainless Steel GG Nitrile/Nitrile on the market B BSP S 316 St. Steel TT Teflon®/Teflon A Aluminum A Santoprene Cast Iron G Nitrile S 316 St. Steel NOTE: Side Port option not available H 440 SS Hardened on Stainless Steel Models. K Kynar (PVDF) S 316 St. Steel

RATIO:	1:1
MAX. G.P.M. (Liters):	170 (644)
DISPLACEMENT GALLONS (Liters) PER CYCLE:	1.4 (5.3)
AIR INLET:	3/4-in. NPT (F)
AIR EXHAUST:	1-1/2" NPT (F)
FLUID INLET:	2" Ports (See table)
FLUID OUTLET:	2" Ports (See table)
MAX. OP. PRESSURE PSI (bar):	120 (8.3)
PASS SOLIDS MAX. DIA. IN. (mm)	: 2" (50mm) Semi Solids
WEIGHT LBS. (Kgs.):	74 (34) Aluminum, 161 (73) Cast Iron 188 (85) Stainless Steel (Note: add 34 lbs.(15 kg) for Stainless or Cast Iron Air Motor)
MAX. DRY SUCTION LIFT:	19 ft. (Rubber fitted)

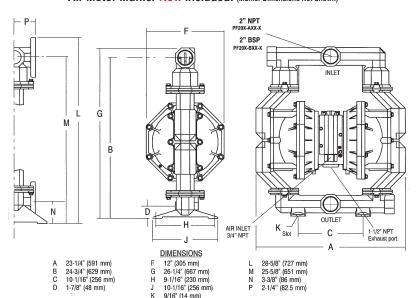
DISCHARGE HEAD (2.31 FT = . NPSH CAPACITY IN U.S. GALLONS PER MINUTE AIR CONSUMPTION IN LITERS / SEC. NPSH,

PERFORMANCE CURVES PF20X-XXX-XXX 2" METALLIC FLAP VALVE DIAPHRAGM PUMP

AIR CONSUMPTION IN SCFM

• mensional Data

Air Motor Muffler Now Included! (Muffler Dimensions Not Shown)



ccessories

FLOW RATE (LITERS / MIN)

Recommended Filter-Regulator (See Page 36)

Filter / Regulator: P29241-610

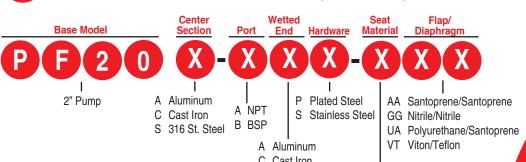
For complete airline connection kit, see page 32, item "B". Pulsation Dampener, see page 25.

P29241-610

For Diaphragm Pump Accessories see pages 32-34.

For recommended key models, refer to the ARO diaphragm pump price book (Form 2240-2). If the specific model you seek is not in the price book, consult the factory for further selection assistance.





NOTE: Side Port option not available on Stainless Steel Models.

Cast Iron S 316 St. Steel

S 316 St. Steel

The ideal sludge pump!

RATIO: 275 (1.041) MAX. G.P.M. (Liters): **DISPLACEMENT GALLONS** (Liters) PER CYCLE: 2.8 (10.6) AIR INLET: 3/4-in. NPT (F) AIR EXHAUST: 1-1/2" NPT (F) FLUID INLET: 3" NPT (F), BSP (F) 3" NPT (F), BSP (F) **FLUID OUTLET:** MAX. OP. PRESSURE PSI (bar): 120 (8.3) PASS SOLIDS MAX. DIA. IN. (mm): 3/8 (9.5)

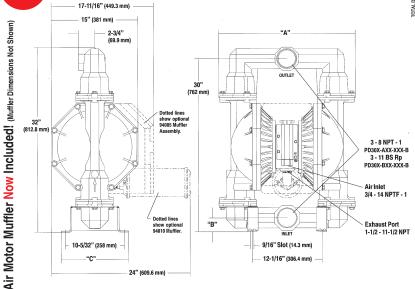
WEIGHT LBS. (Kgs.): 113 (51.3) Aluminum, 197 (89.4) Cast Iron 203 (92.1) Hastelloy, 203 (92.1) Stainless Steel

(Note: add 40 lbs.(18 kg) for Stainless Air Motor)

MAX. DRY SUCTION LIFT: 19 ft. (Rubber fitted)

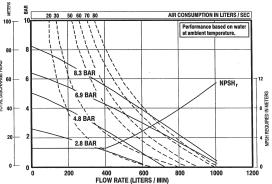
" A "

Dimensional Data



	A	ь	<u> </u>
PD30X-XAX	23-5/8" (600.1mm)	2-3/8" (60.3mm)	11" (279.4mm)
PD30X-XCX	23-5/8" (600.1mm)	2-7/16" (61.9mm)	11-11/16" (296.9mm)
PD30X-XHX	23-1/8" (587.4mm)	2-3/4" (69.9mm)	11-11/16" (296.9mm)
PD30X-XSX	23-1/8" (587.4mm)	2-3/4" (69.9mm)	11-11/16" (296.9mm)

"D"



Accessories

Recommended Filter-Regulator (See Page 36)

Filter: F25451-110 Regulator: 27354-600

For complete airline connection kit, see page 32, item "B".
Pulsation Dampener, see page 26.

I



For Diaphragm Pump Accessories see pages 32-34.

For recommended key models, refer to the ARO diaphragm pump price book (Form 2240-2). If the specific model you seek is not in the price book, consult the factory for further selection assistance

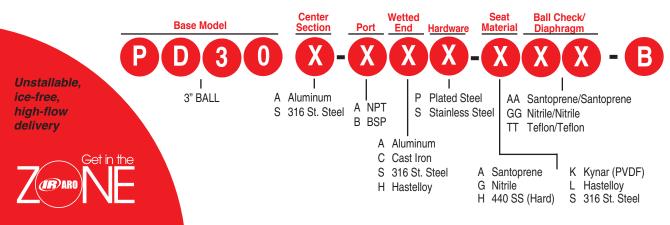


Screened Inlet Kits Available. See Page 31.



Best Selling Models | PD30A-AAP-GGG-B, PD30A-ASS-AAA-B, PD30A-AAP-KTT-B, PD30A-ASP-KTT-B. PD30A-ACS-AAA-B, PD30S-ASS-STT-B

"^"



RATIO:	1:1
MAXIMUM FLOW G.P.M. (liters):	170 GPM (644) PM20S-X 275 GPM(1041) PM30S-X
AIR INLET:	3/4"-NPT(F)
AIR EXHAUST:	1-1/2" NPT (F)
FLUID INLET:	2-1/2" Tri-Clamp PM20S-X 3" Tri-Clamp PM30S-X
FLUID OUTLET:	2-1/2" Tri-Clamp PM20S-X 3" Tri-Clamp PM30S-X
MAX. OPERATING PRESSURE PSI (bar):	120 PSI (8.3 bar)
SUSPENDED SOLIDS MAX. DIA. IN. (mm):	1/4" (6.4) 2" Models 3/8" (9.5) 3" Models
WEIGHT - LBS. (Kg):	178 (80.7) PM20S-X 248 (112.5) PM30S-X

Accessories

Recommended Filter-Regulator (See Page 36)

Filter: F25451-110 Regulator: 27354-600

For complete airline connection kit, see page 32, item "B".



F25451-110



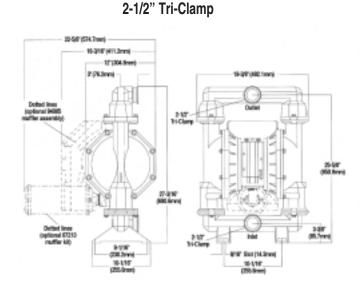
For Diaphragm Pump Accessories see pages 32-34.

For recommended key models, refer to the ARO diaphragm pump price book (Form 2240-2). If the specific model you seek is not in the price book, consult the factory for further selection assistance.

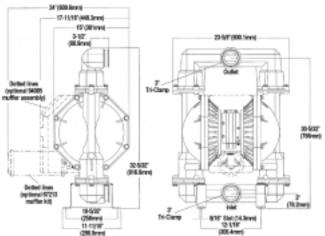
pical Applications

- Food Processing
- Cosmetics
- Pharmaceutical
- Chemical Additives
- Adhesives (Food grade)

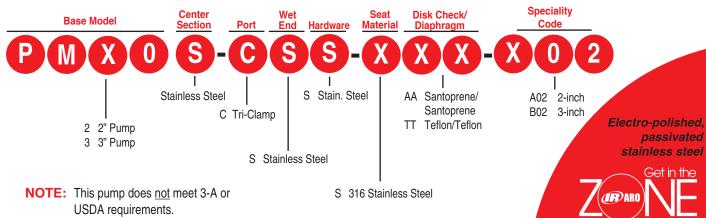
3" Tri-Clamp



Dimensional Data

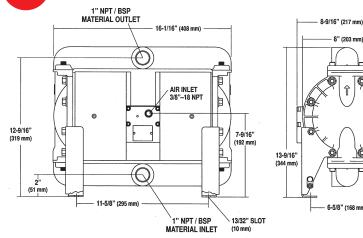






RATIO:	3:1
MAXIMUM G.P.M. (Liters):	24 (90.7) Free Flow (12 GPM at 125 psi back pressure)
DISPLACEMENT GALLONS (Liters) PER CYCLE:	.09 (.341)
AIR INLET:	3/8-inch NPT(F) Short
FLUID INLET:	1 inch NPT(F) or BSP
FLUID OUTLET:	1 inch NPT(F) or BSP
MAX. OPERATING PRESSURE PSI (bar):	300 (20.4)
PASS SOLIDS MAX. DIA. IN. (mm):	1/8-inch (3.2)
WEIGHT - LBS. (Kg):	90 (40.7) Stainless Steel

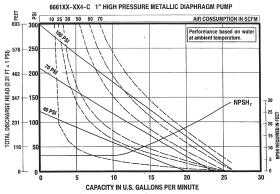
mensional Data

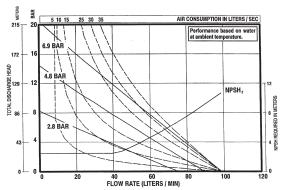


Use the ARO High pressure pump in these and other applications:

- Systems with long piping runs and friction losses
- Inks
- Adhesives

- Filled Materials
- Drilling Grout
- Caulking
- Resins





ccessories

Recommended Filter/Regulator (See Page 36)

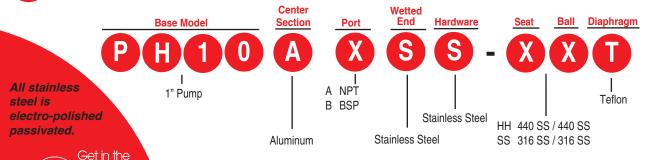
Filter / Regulator: P29231-610

67142 - Wall Mount Bracket

For Diaphragm Pump Accessories see pages 32-34.

For recommended key models, refer to the ARO diaphragm pump price book (Form 2240-2). If the specific model you seek is not in the price book, consult the factory for further selection assistance.

rdering



	1 Inch	1-1/2 Inch	2 Inch
RATIO:	1:1	1:1	1:1
MAX. G.P.M. (Liters):	29 (110)	75 (284)	105 (284)
AIR INLET:	1/4" NPT(F)	1/2" NPT(F)	1/2" NPT(F)
PORT SIZE:	1" NPT(F)	1-1/2" NPT(F)	2" NPT(F)
MAX. OP. PRESSURE PSI (bar):	50 (3.40)	50 (3.4)	50 (3.4)
PASS SOLIDS MAX.DIA. IN. (mm):	1/8" (3.2)	1/4" (6.4)	1/4" (6.4)
WEIGHT LBS. (Kgs.):	19 (8.6)	51 (23.1)	54 (24.5)

Dimensional Data

See pg. 14 for 1" Metallic Pump dimensional data. See pg. 16 for 1-1/2" Metallic Pump dimensional data. The dimensions for the 1-1/2" Metallic Pump are the same for the 2" U.L. Fuel Pump.

U.L. Listed Fuel Transfer Pumps

These ARO Diaphragm Pumps have been designed specifically for dispensing petroleum-based fuel. These pumps meet UL-79 specification, code and are compatible with:

- GASOLINE
- AVIATION FUEL
- DIESEL FUEL
- FUEL OIL
- KEROSENE
- UNLEADED FUEL

Used for high-volume transfer, bulk-unloading or fueling applications. To meet UL-79 specification, a 50 PSI pressure relief valve opens and bleeds off excess pressure. The relief valve can be plumbed to return the bleed-off fuel to the storage container.



Air Connectors shown are not included.



1-1/2 -inch





Recommended Filter/Regulator (See Page 36)

1" Diaphragm Pump Filter / Regulator: P29221-610 1-1/2" / 2" Diaphragm Pump Filter / Regulator: P29241-610



P29221-610

For complete airline connection kit, see page 31, item "B".

For recommended key models, refer to the ARO diaphragm pump price book (Form 2240-2). If the specific model you seek is not in the price book, consult the factory for further selection assistance.



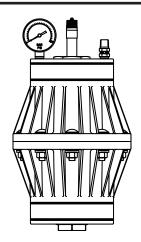
MODEL	INLET/OUTLET PORT SIZE	SEAT	BALL	DIAPHRAGM
ALUMINUM CONSTRUCTION			·	
650709-C	1-inch NPT	Kynar® PVDF	Acetal	Nitrile
Unleaded 650717-C	1-inch NPT	Kynar PVDF	Acetal	Viton®
650710-C	1-1/2-inch NPT	Kynar PVDF	Acetal	Nitrile
Unleaded 650718-C	1-1/2-inch NPT	Kynar PVDF	Acetal	Viton
650711-C	2-inch NPT	Kynar PVDF	Acetal	Nitrile
Unleaded 650719-C	2-inch NPT	Kynar PVDF	Acetal	Viton

Viton Diaphragms are recommended for use with unleaded fuels.

FLUID

Portable fuel supply





Specifications

Pulsation Dampener Type Material / Weight-lbs (kgs)

Material Inlet/Outlets

Air Inlet

Maximum Air Inlet Pressure Maximum Material Inlet Pressure Maximum Temperature Limits

Maximum Fluid Volume

Non-Metallic / Automatic Polypropylene 8.4 (3.8) Conductive Acetal 8.6 (3.9) Pure Kynar (PVDF) 9.0 (4.1)

SB10X-AXX 1" - NPTF (Female), Standard

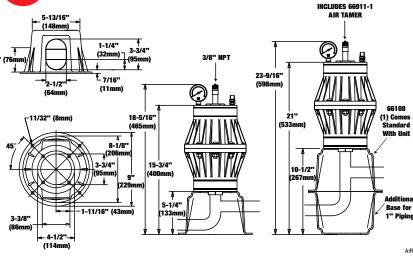
SB10X-BXX - 1" BSP (Female) Air Chuck Style Valve, Standard Air Tamer is 3/8" NPTF (Male) (Optional) 100 PSIG (6.9 bar)

100 PSIG (6.9 bar) Polypropylene 35° F - 150° F (±1.6° C - 65.5° C) Conductive Acetal 10° F - 180° F (-12° C - 82° C)

Kynar 10° F - 200° F (-12° C - 93° C)

Dimensional Data



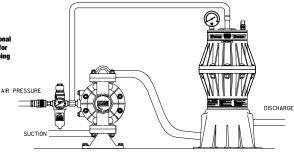


85% pulsation reduction @ 60PSI 1/2" Pump: back pressure / 5 GPM

1" Pump: 80% pulsation reduction @ 60PSI back pressure / 10 GPM

Vpical Installation

Used with 1/2" & 1" Ported Diaphragm Pumps





Notice: All possible options are shown in the chart below, however, certain combinations may not be recommended. Consult a representative or the factory if you have questions concerning availability.



Blocker Size -

10 - 1"

- Automatic air adjustmentstandard
- Works with only 100 PSI pump (1/2" - 1")
- Up to 97% pulsation reduction

Air Body -

- **P** Polypropylene (Glass Filled)
- **K** Pure Kynar (PVDF)
- **D** Conductive Acetal

Thread -

A - NPT

B - BSP

Diaphragm

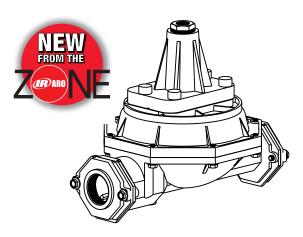
- A- Santoprene®
- G- Nitrile
- **T-** Teflon®
- **U-** Urethane

Hardware

S - Stainless (304)

Fluid Construction

- **P** Polypropylene (Glass Filled)
- **K** Pure Kynar (PVDF)
- **D** Conductive Acetal



Specifications

Pulsation Dampener Type Material / Weight-lbs (kgs)

Material Inlet/Outlets

Metallic / Automatic Aluminum (fluid cap)

Aluminum (fluid cap) 29 (13.2)
Cast Iron (fluid cap) 70 (31.8)
Stainless St. (fluid cap) 71 (32.2)
SB20X-AXX-X 2" -11-1/2 NPTF -1

SB20X-BXX-X 2" -11 BS Rp

Air Inlet

Maximum Air Inlet Pressure

SBZUX-BAX-X 2 3/4" - 14 NPT (female)
120 PSIG (8.3 bar)

Maximum Material Inlet Pressure
Maximum Temperature Limits
Maximum Fluid Volume

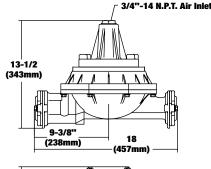
120 PSIG (8.3 bar)
200° F (93° C)
159 in.3 (2.61 lit.)

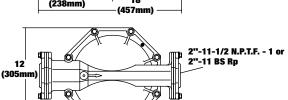
Dimensional Data



1-1/2" Pump: 75% pulsation reduction @ 60PSI back pressure / 40 GPM

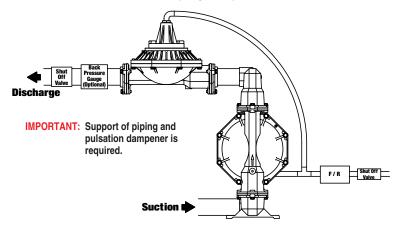
2" Pump: 60% pulsation reduction @ 60PSI back pressure / 100 GPM





pical Installation

Used with 1-1/2" & 2" Metal Diaphragm Pumps





Notice: All possible options are shown in the chart below, however, certain combinations may not be recommended. Consult a representative or the factory if you have questions concerning availability.



Blocker Size -

20 - 2"

Air Body -

- A Aluminum
- C Cast Iron
- S Stainless Steel

Thread

- A NPT
- B BSP

Diaphragm

- A- Santoprene®
- G- Nitrile
- **T-** Teflon®/Santoprene®

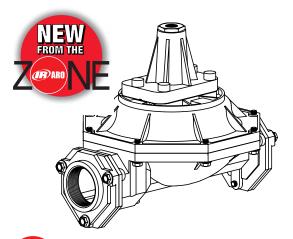
Hardware

- **s** Stainless (304)
- P Plated Steel

Fluid Construction

- A Aluminum
- C Cast Iron
- S Stainless Steel

- · Automatic air adjustmentstandard
- Perfect for process applications
 - Broad pump fluid compatibility



Specifications

Pulsation Dampener Type Material / Weight-lbs (kgs)

Material Inlet/Outlets

Air Inlet Maximum Air Inlet Pressure Maximum Material Inlet Pressure 120 PSIG (8.3 bar) Maximum Temperature Limits Maximum Fluid Volume

Metallic / Automatic

Aluminum (fluid cap) 41 (18.6) Cast Iron (fluid cap) 94 (42.6) Stainless St. (fluid cap) 96 (43.5) SB30X-AXX-X 3" - 8 NPTF -1 SB30X-BXX-X 3" - 11 BS Rp

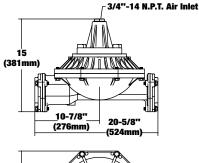
3/4" - 14 NPT (female) 120 PSIG (8.3 bar) 200° F (93° C) 509 in.3 (8.34 lit.)

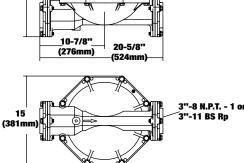
Dimensional Data



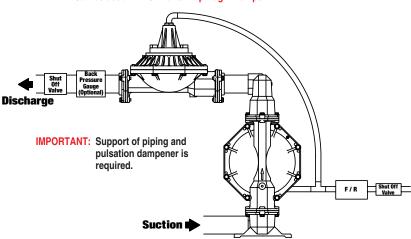
3" Pump:

55% pulsation reduction @ 60PSI back pressure / 150 GPM











Notice: All possible options are shown in the chart below, however, certain combinations may not be recommended. Consult a representative or the factory if you have questions concerning availability.



Blocker Size

30 - 3"

Air Body -

S - Stainless Steel

Automatic air adjust-

- ment-standard Perfect for
- process applications
- · Broad pump fluid compatibility

A - Aluminum

Thread

- A NPT
- B BSP

Diaphragm

- A- Santoprene®
- G- Nitrile
- **T-** Teflon®/Santoprene®

Hardware

- **S** Stainless (304) **P** Plated Steel

Fluid Construction

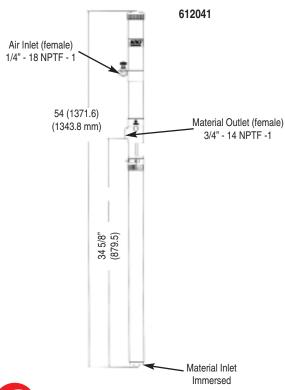
- **A** Aluminum
- C Cast Iron
- S Stainless Steel

PISTON STYLE

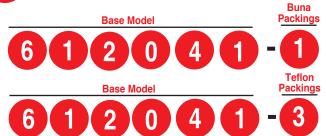
Performance Specifications

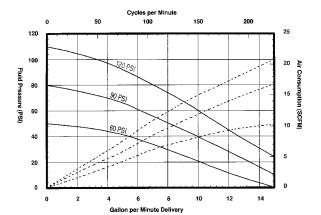
AIR INLET PRESSURE RANGE:	0-150 PSI (0-10.3 bar)
FLUID PRESSURE RANGE:	0-150 PSI (0-10.3 bar)
MAX. REC'D CYCLES PER MINUTE:	75
DISPLACEMENT In ³ (cm ³) PER CYCLE	:: 18.8
VOLUME/CYCLES:	10.4 oz. (307.7 ml)
CYCLES PER GALLON (LITER):	12.3
MAXIMUM WORKING FLOW RATE:	9-GPM (34.1-lpm)
MAXIMUM FLOW RATE:	18 gpm (68.1 lpm)
NOISE LEVEL: 77.8 bd(A) @ 60	psi, 40 cycles per minute
RATIO:	1:1
AIR MOTOR DIAMETER:	2" (5.08 cm)
STROKE:	6" (15.24 cm)
AIR INLET:	1/4"-18 NPT 1 (F)
MATERIAL INLET:	Immersed
MATERIAL OUTLET:	3/4"-14 NPTF - 1 (F)
PUMP CONSTRUCTION:	Carbon Steel
LOWER PUMP REPAIR KIT:	637081 (-1 Buna)
	637083 (-3 Teflon)

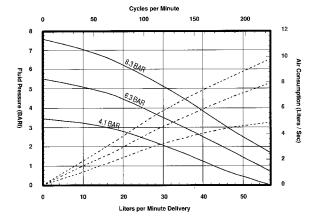
Dimensional Data



Ordering









AIR F/R/L:	C28123-600
Wall Mount:	61113
Muffler:	61879
AIR Line Oil:	62274 (1 Quart)
See Page 35 for Piston Pump accessories.	



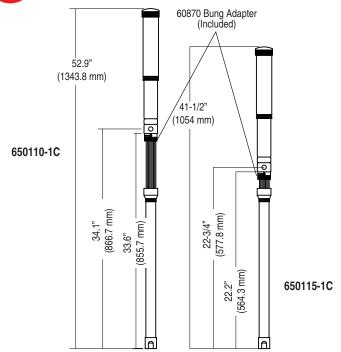
C28123-600

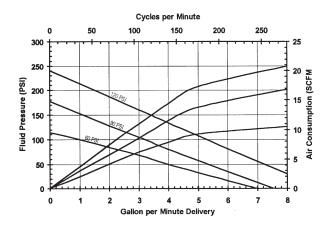
· 5-Year Warranty!

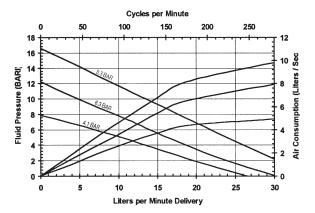


30-150 (2-10.2 bar)
60-300 PSI (4-20.4 bar)
120
:7.2 (117.9)
32 (8.4)
4-GPM (15.1-lpm)
77.8 db(A)
Carbon Steel
Carbon Steel
Carbon Steel
60702
66098
2" (5.2 cm)
6" (15.2 cm)
1/4" NPT (F)
637029 (Teflon)
637028 (UHMW-PE)
1" NPT (F)-Stub Model
Immersed-Drum Model
1/2" NPT (F)
12 (5.4)









Accessories

AIR F/R/L:	C28123-600
Wall Mount:	61113
Muffler:	61879
AIR Line Oil:	62274 (1 Quart)
Siphon Hose:	65986 (5 Gal.)
	65986-1 (55 Gal.)



See Page 35 for Piston Pump accessories.

C28123-60

Ordering

5-Year Warranty!



Stub Mounted Base Model

6 5 0 1 1 5 - 1 C

55-Gallon Base Model

650110 - 1C