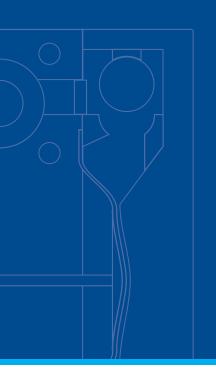
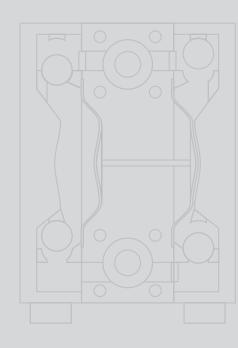


VERDERAIR

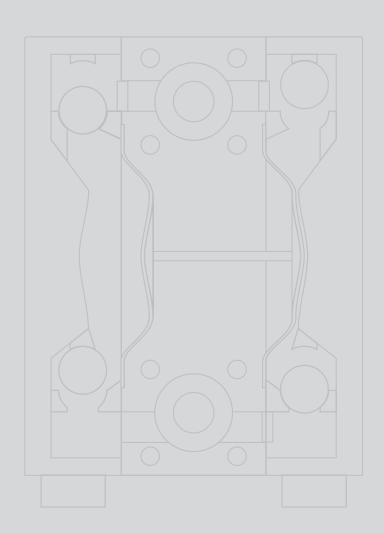
Double Diaphragm Pumps







Verderair Double Diaphragm Pumps are problem solvers in all industries



Verderair

Double Diaphragm Pumps

The series of Verderair double diaphragm pumps are highly engineered diaphragm pumps, delivering a smooth, reliable flow for all circumstances. The new air valve design guarantees a perfect, non-stalling operation, even at low pressure. The air valve does not need any lubrication. Thanks to their unique design, the pumps are able to handle very abrasive and/or viscous products.



The Verderair pumps will run dry indefinitely without damage. Verder has selected those materials which offer the best combination of benefits to the end user. The used wetted pump part materials are Acetal, Polypropylene, Kynar, Aluminum, Cast Iron and stainless steel. For ball and/or diaphragm, Verder selected PTFE, Hytrel, Santoprene, Viton, BUNA-N, SS and Acetal.

Flow range	up to 275 gpm
Pressure	up to 232 psi

Features and advantages

- Easy installation
- Performs on-demand in remote locations
- Extremely portable for multi-location use
- Easy to maintain
- Easy to operate
- Can run dry without pump damage
- No air lubrication necessary

Double diaphragm pumps are being used in a wide range of industrial areas:

Beverage industry

Yeast, diatomaceous earth, slurry, dregs, liquid hops, sugar syrup, wine, fruit, corn syrup.

Pharmaceutical industry

Vegetable extracts, tablet pastes, alcohols, filtering aids, ultra filtration, blood plasma.

Electronic industry

Solvents, electroplating baths, ultrapure liquids, carrier fluids for ultra-sonic washing, sulfuric nitric and acid wastes, etching acids, acetone, polishing compound.

Paint and coatings

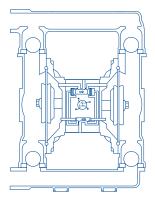
Resins, solvents, wood preservative stain, concrete paints, titanium dioxide slurry, dispersions, varnish cleaning baths.

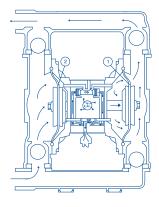
Food

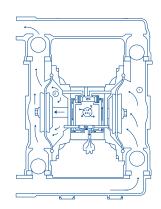
Brine, chocolate, vinegar, molasses, dog & cat food, vegetable oil, honey, animal blood.



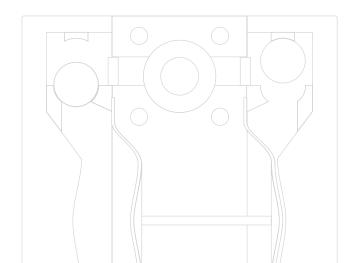
Working principle







- 1. The air valve directs compressed air behind diaphragm 1 which is then passed directly to the liquid column. The diaphragm acts as a divide between the compressed air and the liquid. The compressed air moves the diaphragm away from the motor section of the pump. The opposite diaphragm is pulled towards the motor section by the connecting rod, which is connected to the diaphragm that is under pressure. Diaphragm 2 now carries out the airexpelling stroke; air from behind the diaphragm is then expelled through the discharge valve into the atmosphere. Diaphragm 2 moves in the direction of the motor section of the pump. Atmospheric pressure then forces the liquid towards the inlet manifold, where the ball is moved from its seat. This allows liquid to flow freely past the inlet ball and fill the liquid chamber.
- 2. Once the diaphragm under pressure, diaphragm 1, has reached the limit of its outward stroke, the air seat leads compressed air behind diaphragm 2. This compressed air pushes diaphragm 2 away from the motor section, resulting in diaphragm 1 being pulled towards the motor section. Diaphragm 2 pushes the inlet ball onto its seat through the hydraulic forces that develop. The same hydraulic forces cause the discharge ball to be lifted from its seat, while the opposite discharge ball is forced onto its seat. The inlet ball is lifted from its seat, so that the liquid can be transported to fill the liquid chamber.
- 3. When the stroke is completed, the air valve once again brings air behind diaphragm 1 and diaphragm 2 starts on the air-expelling stroke.





Model VA standard also available in ATEX.

This pump model is an extension of the standard VA model. Materials of constructions are of conductive polypropylene, ideal for the toughest industrial applications.

Flow max. 275 gpm Pressure max. 120 psi

OVERVIEW OF PUMP MODELS

Model VA standard

These diaphragm pumps provide flexible, reliable flow in all circumstances. The design of the control valve guarantees perfect operation that never jams and does not have to be lubricated even at low compressed air pressure and high backpressure. Verder has chosen those materials that offer the end user the best combination of advantages. Both metallic and non metallic versions are available.

Model VA high pressure

The high pressure range has exactly the same excellent features as the standard pumps. Additionally they can provide output pressures of up to 275 psi.

Model VA FDA

Model FDA is the hygienic model of double diaphragm pumps. This new pump model is especially designed for the food, pharmaceutical and cosmetic industry. The FDA pumps have a quick knock down system: easy to clean redesigned diaphragms increasing life time.

Model VA hygienic

These heavy duty double diaphragm pumps are constructed according to 3-A standards. This pump delivers the highest flow rate of any air operated 3-A certified double diaphragm pump.



Flow max. 275 gpm Pressure max. 120 psi



Flow max. 140 gpm max. 232 psi Pressure



Flow 150 gpm Pressure max. 116 psi



max. 149 gpm Flow Pressure max. 120 psi



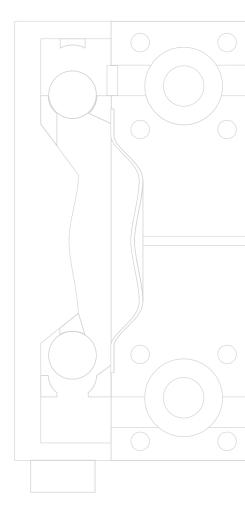
Materials of construction

	Wetted parts	Diaphragms	Balls	Seats
Aluminum	X			
Buna-N		Χ	Χ	Χ
Cast Iron	Χ			
EPDM		X	Χ	Χ
PVDF	Χ			Χ
Polypropylene	Χ			Χ
316 St. steel	Χ	X	Χ	
Teflon		X	Χ	
Viton		X	Χ	Χ
Hytrel		X	Χ	Χ
Acetal	Χ		Χ	Х
Santoprene		X	Χ	Х
Geolast		X	Χ	Х

Model	Series	Flow range	Air pressure	
VA 8	non-metallic	5 gpm	100 psi	
VA 10	non-metallic	7 gpm	100 psi	
VA 15	non-metallic	15 gpm	100 psi	
VA 20	metallic	16 gpm	100 psi	
VA 25	non-metallic	50 gpm	120 psi	
VA 25	metallic	50 gpm	120 psi	
VA 40	non-metallic	100 gpm	120 psi	
VA 40	metallic	100 gpm	120 psi	
VA 50	non-metallic	150 gpm	120 psi	
VA 50	metallic	150 gpm	120 psi	
VA 80	metallic	275 gpm	120 psi	
VA 25 HP	metallic	21 gpm	230 psi	
VA 40 HP	metallic	50 gpm	232 psi	
VA 50 HP	metallic	73 gpm	232 psi	
VA 80 HP	metallic	140 gpm	232 psi	



Suction discharge	Casing material	Max. solids size
1/4" NPT	KY/PP/AC	0.063 in
3/8" NPT	PP/AC	0.063 in
1/2" NPT	KY/PP/AC	0.094 in
3/4" NPT	SS 316/ALU	0.094 in
1" Flanged	KY/PP/CPP	0.125 in
1" NPT	SS 316/ALU/HA	0.125 in
1.5" Flanged	KY/PP	0.188 in
1.5" NPT	SS 316/ALU	0.188 in
2" Flanged	KY/PP	0.25 in
2" NPT	SS 316/ALU/CI	0.25 in
3" Flanged	ALU	0.375 in
1" NPT	SS 316/ALU	0.125 in
1.5" NPT	SS 316/ALU	0.188 in
2" NPT	SS 316/ALU/CI	0.25 in
3" Flanged	ALU	0.375 in





Verderair VA standard

Verderair are highly engineered diaphragm pumps, delivering a smooth, reliable flow in all circumstances. The new air valve design guarantees a perfect, non-stalling operation, even at low pressure and does not need any lubrication. Thanks to their unique design, they are able to handle very abrasive and/or viscous products. The Verderair will run dry indefinitely without damage.

Verderair offers a complete range of air operated diaphragm pumps (including ATEX pumps) for a wide range of applications in almost all industries.

Flow range	0.1 up to 275 gpm
Pressure	up to 125 psi

Features and advantages

- Easy installation
- Bolted chambers for safe operation
- Rugged, cast feet mounting holes keep your pump from vibrating
- Adaptable as cover-mounted, pail-mounted or wall-mounted units
- Immersible in most situations
- Easy to adapt
- A large range of material options for fluid versatility with extended pump life
- Air powered convenience for use in a variety of installations with no electrical hazard
- Performs on-demand in remote locations
- Extremely portable for multi-location use
- Pumps move a wide variety of coatings, solvents, sealants, adhesives, inks, acids and more
- Easy to maintain
- Seal-less, leak proof design prevents fluid waste and mess
- Even in wet air, the stainless steel diaphragm rod in the air motor is designed for long life and corrosion resistance
- Easy to operate
- Pumps reduce or eliminate manual filling and transport
- Reduces the risk of hazardous spills and employee exposure
- Multiple dispense points throughout your plant can easily be served
- Can run dry without pump damage
- No air lubrication necessary

Applications

- Drum transfer
- Circulation of low/high viscosity inks, stains and dyes
- Waste fluid removal from quench tanks, sumps and spray booths
- Process transfer filling and emptying process vessels and mixing tanks
- Slurries and sludge
- Food transfer
- Ceramics
- Truck unloading



Technical data		
Weight [lbs/kg]	Acetal	2.5 /1.1
	PP	2.0/0.9
	Kynar	2.8/1.3
Suction lift [ft/m]	Dry	10/3
	Wet	14.5/4.4
Temperature max [°F/°C]	Acetal	180/82
	PP	180/82
	Kynar	180/82
Max. particle size [in/mm]		0.06/1.5
Non wetted material, center section	PP	

codes VA 8 no.2 no.3 no.4

no.2 wetted material

AC = Acetal

PP = Polypropylene

KY = Kynar

no.3 seat material

AC = Acetal

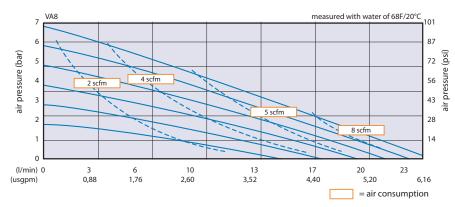
PP = Polypropylene

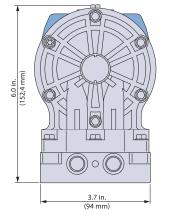
KY = Kynar

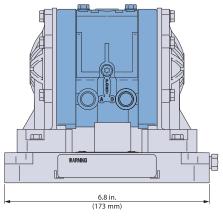
no.4 valve material

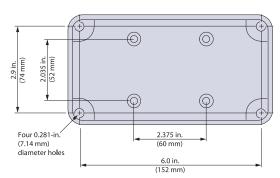
TF = Teflon

SP = Santoprene









Technical data		
Weight [lbs/kg]	Acetal	5.2/2.4
	PP	4.75/2.2
Suction lift [ft/m]	Dry	12/3.7 -7/2.1
	Wet	21/6.4 -12/3.7
Temperature max [°F/°C]	Acetal	150/65.5
	PP	150/65.5
Max. particle size [in/mm]		0.06/1.6
Non wetted material, center section	pp	

codes VA 10 no.2 no.3 no.4 no.5

no.2 wetted material

AC = Acetal

PP = Polypropylene

no.3 seat material

AC = Acetal

PP = Polypropylene

SS = Stainless Steel

no.4 valve material

TF = Teflon

HY = Hytrel

SS = Stainless Steel

BN = Buna-N

SP = Santoprene

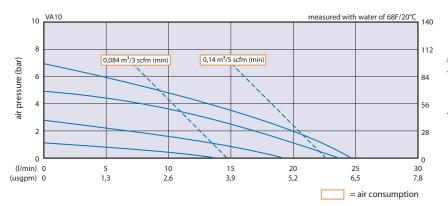
no.5 diaphragm material

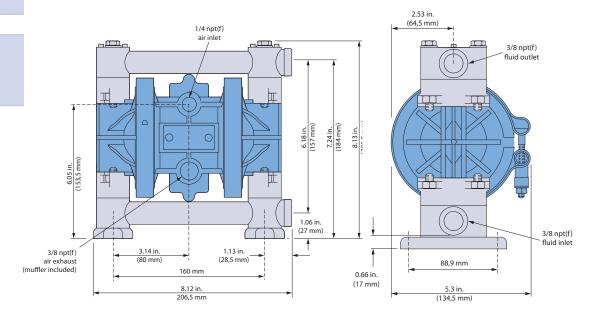
TF = Teflon

HY = Hytrel

BN = Buna-N

SP = Santoprene





air pressure (psi)

Technical data		
Weight [lbs/kg]	Acetal	7.8/3.5
	PP	6.5/2.9
	Kynar	8.5/3.9
Suction lift [ft/m]	Dry	15/4.5
	Wet	25/7.6
Temperature max [°F/°C]	Acetal	180/82*
	PP	150/66*
	Kynar	225/107
Max. particle size [in/mm]		0.09/2.5
Non wetted material, center section	PP	

^{* 220/104.4} with Teflon diaphragms

codes VA 15 no.2 no.3 no.4 no.5

no.2 wetted material

AC = Acetal

PP = Polypropylene

KY = Kynar

no.3 seat material

AC = Acetal

PP = Polypropylene

KY = Kynar

SS = Stainless Steel

no.4 valve material

TF = Teflon

SP = Santoprene

SS = Stainless Steel

HY = Hytrel

BN = Buna-N

VT = Viton

no.5 diaphragm material

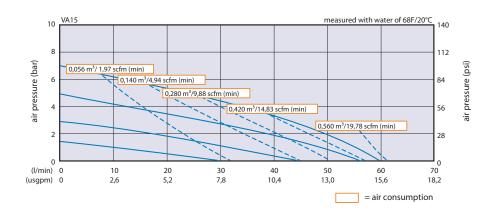
TF = Teflon

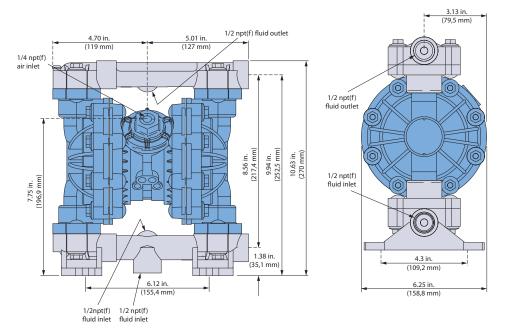
SP = Santoprene

BN = Buna-N

VT = Viton

HY = Hytrel





Technical data		
Weight [lbs/kg]	Aluminum	8.5/3.9
	Stainless Steel	18/8.2
Suction lift [ft/m]	Dry	15/4.5
	Wet	25/7.6
Temperature max [°F/°C]	Aluminum	220/107
	Stainless Steel	220/107
Max. particle size [in/mm]		0.09/2.5
Non wetted material, center section	PP	

codes VA 20 no.2 no.3 no.4 no.5

no.2 wetted material

AL = Aluminum

SS = Stainless Steel

no.3 seat material

AC = Acetal

PP = Polypropylene

KY = Kynar

SS = Stainless Steel

no.4 valve material

TF = Teflon

HY = Hytrel

SP = Santoprene

SS = Stainless Steel

BN = Buna-N

VT = Viton

no.5 diaphragm material

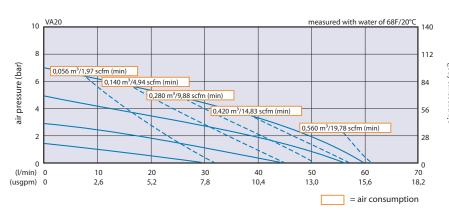
TF = Teflon

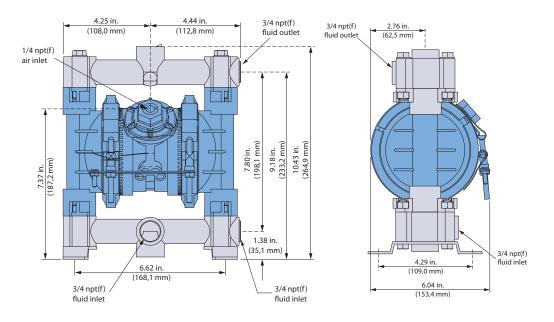
HY = Hytrel

SP = Santoprene

BN = Buna-N

VT = Viton





air pressure (psi)

VERDERAIR VA 25 non-metallic

codes VA 25
A. wetted material
C = Conductive pp* K = Kynar P = PP
AC. seat material
AC = Acetal AL = Aluminum BN = Buna-N FK = FKM Viton GE = Geolast PP = Polypropylene PV = PVDF SP = Santoprene
SS = 316 Stainless Steel
TP = TPE (Hytrel)

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AL.	nan	man	eriai

AC	=	Ac	etal

BN = Buna-N

CR = Neoprene

CW= Neoprene

FK = FKM Viton

GE = Geolast

PT = PTFE

SP = Santoprene

SS = 316 Stainless Steel

TP = TPE (Hytrel)

A01. center body

A01 = Aluminum

C01 = Conductive PP

P01 = PP

Leak detection available

A01. diaphragm material

BN = Buna-N

CO = Polychloroprene overmolded (Neoprene)

FK = FKM Fluorelastomer (Viton)

GE = Geolast

PO = PTFE/EPDM overmolded

PT = PTFE/EPDM Two-Piece

TP = TPE (Hytrel)

SP = Santoprene

C1. covers

A1 = Aluminum standard ports, inch

A2 = Aluminum standard ports

C1 = Conductive PP, center flange

C2 = Conductive PP, end flange

P1 = PP, center flange

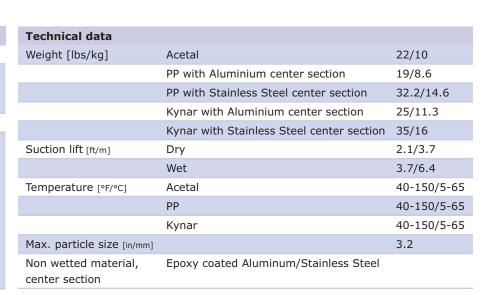
P2 = PP, end flange

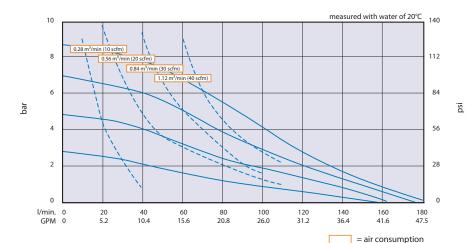
S1 = Stainless steel, standard ports, inch

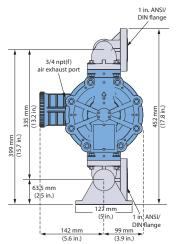
S2 = Stainless steel, standard ports

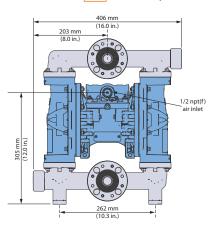
PT.

O rings = PTFE









25 PP conductive PP

- Due to the extensive options of the VA25,
 a complete technical data sheet is also available.
 End flanged VA25 dimensional also available.

VERDERAIR VA 25 metallic

codes VA 25
A. material of casing
AL = Aluminum HA = Hastalloy SS = Stainless Steel
AC. material of seat
AC = Acetal PP = Polypropylene KY = Kynar SS = Stainless Steel HS = Hardened Steel HY = Hytrel SP = Santoprene VT = Viton BN = Buna-N GE = Geolast
AC

AC. material of valve

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HS = Hardened Steel

HY = Hytrel

SP = Santoprene

BN = Buna-N

VT = Viton

GE = Geolast

AC = Acetal

SS = Stainless Steel

BN. material of diaphragm

TF = Teflon

HY = Hytrel

SP = Santoprene

BN = Buna-N

VT = Viton

GE = Geolast

AC. ball material

AC = Acetal

BN = Buna-N

CR = neoprene

CW = neoprene

FK = FKM Viton

GE = Geolast

PT = PTFE

SP = Santoprene

SS = 316 Stainless Steel

TP = TPE (Hytrel)

C1. covers

A1 = Aluminum standard ports, inch

A2 = Aluminum standard ports

C1 = Conductive PP, center flange

C2 = Conductive PP, end flange

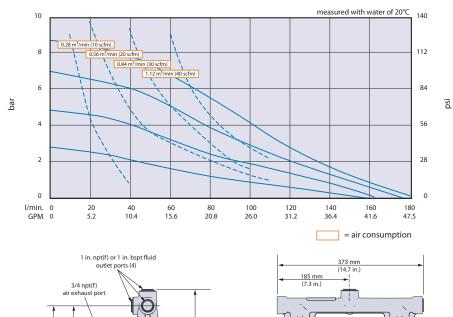
P1 = PP, center flange

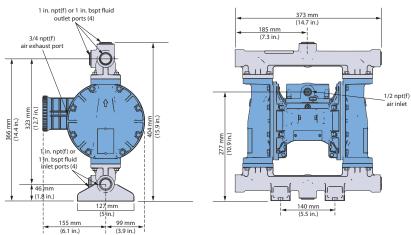
P2 = PP, end flange

S1 = Stainless steel, standard ports, inch

S2 = Stainless steel, standard ports

Technical data		
Weight [lbs/kg]	Aluminum	23/10.5
	Plastic	18/8.2
	PVDF	21/9.5
	Stainless Steel	
	with conductive polypropylene center	36.3/16.5
	with polypropylene center	37.3/16.9
	with aluminum center	41.4/18.8
	Hastelloy	41/18.6
Suction lift [ft/m]	Dry	16/4.9
	Wet	29/8.8
Temperature [°F/°C]	Aluminum	40-150/5-65
	Stainless Steel	40-150/5-65
Max. particle size [in/mm]		1.8/3.2





VA 25 aluminum

- Due to the extensive options of the VA25,
 a complete technical data sheet is also available.
 End flanged VA25 domensional also available.
 Stainless steel VA25 dimensional not shown.

VERDERAIR VA 40 metallic

Technical data		
Weight [lbs/kg]	Aluminum with Aluminum center section	33.5/15.2
	Stainless Steel with Aluminum center section	85.5/38.6
	Stainless Steel with Stainless Steel center section	98.8/44.8
Suction lift [ft/m]	Dry	18/5.48
	Wet	18/5.48
Temperature max [°F/°C]	Aluminum	150/65.5*
	Stainless Steel	150/65.5*
Max. particle size [in/mm]		0.19/4.8
Non wetted material, center section	Aluminum/Stainless Steel	

^{* 220/104.4} with Teflon diaphragms

codes VA 40 no.2 no.3 no.4 no.5

no.2 wetted material

AL = Aluminum

SS = Stainless Steel

no.3 seat material

PP = Polypropylene

KY = Kynar

SS = Stainless Steel

HS = Hardened Steel

HY = Hytrel

SP = Santoprene

GE = Geolast

VT = Viton

BN = Buna-N

no.4 valve material

AC = Acetal

GE = Geolast

HS = Hardened Steel

HY = Hytrel

SP = Santoprene

TF = Teflon

VT = Viton

BN = Buna-N

no.5 diaphragm material

TF = Teflon

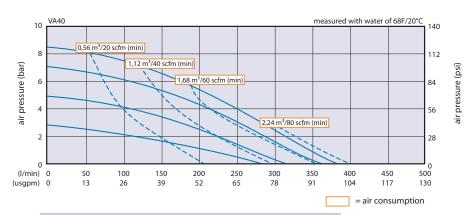
HY = Hytrel

SP = Santoprene

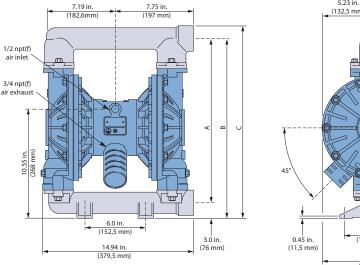
VT = Viton

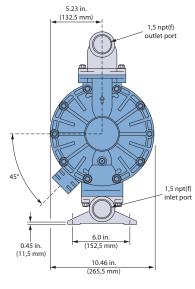
GE = Geolast

BN = Buna-N



	Dimensions Aluminum pumps	Dimensions SST pumps
Α	16.8 in	16.25/412.5
В	18.3 in	17.75/450
С	19.5 in	19.0/482.5





VERDERAIR VA 40 non-metallic

Technical data		
Weight [lbs/kg]	PP with Aluminum center section	35/16
	PP with Stainless Steel center section	48.3/21.9
	Kynar with Aluminum center section	49/22
	Kynar with Stainless Steel center section	62.3/28.2
Suction lift [ft/m]	Dry	18/5.48
	Wet	18/5.48
Temperature max [°F/°C]	PP	150/65.5*
	Kynar	150/65.5*
Max. particle size [in/mm]		0.19/4.8
Non wetted material, center section	Aluminum/Stainless Steel	

^{* 220/104.4} with Teflon diaphragms

codes VA 40 no.2 no.3 no.4 no.5

no.2 wetted material

PP = Polypropylene

KY = Kynar

no.3 seat material

PP = Polypropylene

KY = Kynar

SS = Stainless Steel

HS = Hardened Steel

HY = Hytrel

SP = Santoprene

GE = Geolast

VT = Viton

BN = Buna-N

no.4 valve material

AC = Acetal

GE = Geolast

HS = Hardened Steel

HY = Hytrel

SP = Santoprene

TF = Teflon

VT = Viton

BN = Buna-N

no.5 diaphragm material

TF = Teflon

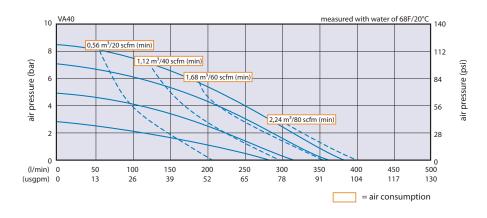
HY = Hytrel

SP = Santoprene

VT = Viton

GE = Geolast

BN = Buna-N



outlet port ID: 1.75 in. (44,5 mm)

flange diameter

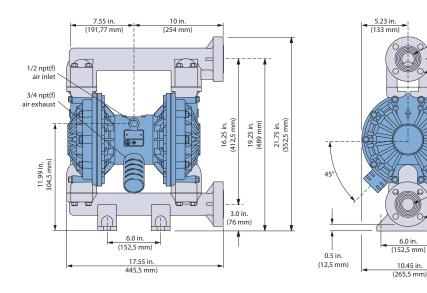
5.0 in. (127 mm)

four 0.63 in. (16 mm) slots

inlet port ID: 1.6 in. (40,6 mm)

four 0.63 in.

(16 mm) slots



VERDERAIR VA 50 metallic

Technical data		
Weight [lbs/kg]	Aluminum with Aluminum center section	58/26.3
	Stainless Steel with Aluminum center section	111/50
	Ductile iron with Aluminum center section	130/59
	Stainless Steel with Stainless Steel center section	134/60
	Ductile iron with Stainless Steel center section	130/59
Suction lift [ft/m]	Dry	18/5.48
	Wet	18/5.48
Temperature max [°F/°C]	Aluminum	150/65.5*
	Stainless Steel	150/65.5*
	Cast Iron	150/65.5*
Max. particle size [in/mm]		0.25/6.3
Non wetted material, center section	Aluminum/Stainless Steel	

^{* 220/104.4} with Teflon diaphragms

codes VA 50 no.2 no.3 no.4

no.2 wetted material

AL = Aluminum

SS = Stainless Steel

CI = Cast Iron

no.3 seat material

PP = Polypropylene

SS = Stainless Steel

HS = Hardened Steel

VT = Viton

HY = Hytrel

SP = Santoprene

GE = Geolast

BN = Buna-N

KY = Kynar

no.4 valve material

TF = Teflon

HY = Hytrel

HS = Hardened Steel

SP = Santoprene

VT = Viton

GE = Geolast

AC = Acetal

BN = Buna-N

no.5 diaphragm material

TF = Teflon

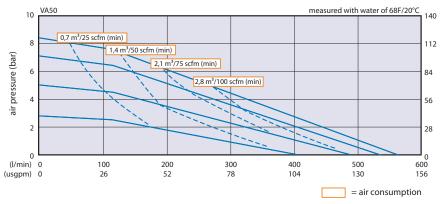
HY = Hytrel

SP = Santoprene

VT = Viton

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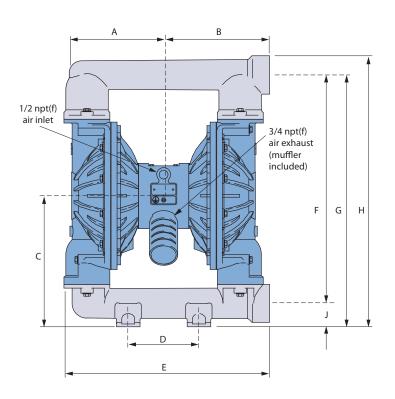


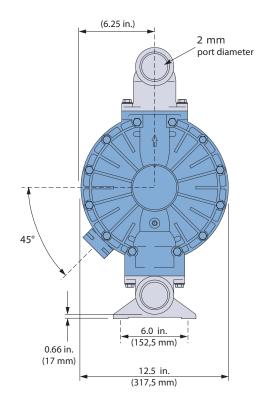




Dimension	s			
	Stainless Steel	Ductile Iron	Aluminum	Aluminum Extension *
Α	8.9 in/227.7 mm	8.4 in/213.1 mm	8.4 in/213.1 mm	8.4 in/213.1 mm
В	9.4 in/239.0 mm	9 in/230.1 mm	9 in/230.1 mm	9 in/230.1 mm
С	15.5 in/393.7 mm	12.3 in/312.4mm	12.3 in/312.4 mm	12.3 in/312.4mm
D	6.5 in/165.1 mm	6 in/152.4mm	6 in/152.4 mm	6 in/152.4 mm
E	18 in/458.9 mm	17.4 in/443.2mm	17.4 in/443.2 mm	17.4 in/443.2mm
F	22.3 in/565.7 mm	19.3 in/492mm	20 in/505.5 mm	22.8 in/579.1 mm
G	24.6 in/625.8 mm	21.3 in/542.8 mm	22 in/556.3 mm	24.9 in/631.9 mm
Н	26.2 in/668.0 mm	23 in/584.2 mm	23.5 in/597.7mm	26.5 in/673.3 mm
J	2.37 in/60.2 mm	2 in/50.8 mm	2 in/50.8 mm	2 in/50.8 mm
K	0.94 in/24.1 mm	0.38 in/9.7 mm	0.38 in/9.7 mm	0.38 in/9.7 mm

^{*} Aluminum extended pump matches the inlet to outlet dimensions of Wilden and Aro Aluminum pumps. This will help for ease of installation during upgrades.





VERDERAIR VA 50 non-metallic

Technical data		
Weight [lbs/kg]	PP with Aluminum center section	49/22
	PP with Stainless Steel center section	68.5/31
	Kynar with Aluminum center section	68/30.8
	Kynar with Stainless Steel center section	87.5/39.6
Suction lift [ft/m]	Dry	18/5.48
	Wet	18/5.48
Temperature max [°F/°C]	PP	150/65.5*
	Kynar	150/65.5*
Max. particle size [in/mm]		0.25/6.3
Non wetted material, center section	Aluminum/Stainless Steel	

^{* 220/104.4} with Teflon diaphragms

codes VA 50 no.2 no.3 no.4 no.5

no.2 wetted material

PP = Polypropylene

KY = Kynar

no.3 seat material

PP = Polypropylene

HY = Hytrel

SS = Stainless Steel

GE = Geolast

HS = Hardened Steel

KY = Kynar

SP = Santoprene

BN = Buna-N

VT = Viton

no.4 valve material

TF = Teflon

HY = Hytrel

HS = Hardened Steel

AC = Acetal

SP = Santoprene

VT = Viton

GE = Geolast

BN = Buna-N

no.5 diaphragm material

TF = Teflon

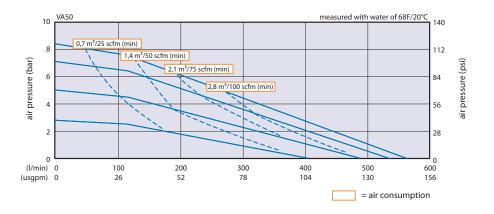
HY = Hytrel

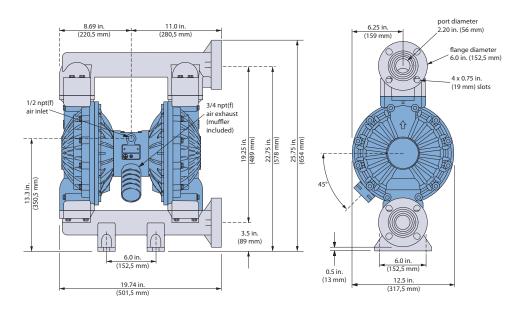
SP = Santoprene

VT = Viton

GE = Geolast

BN = Buna-N





Technical data		
Weight [lbs/kg]	Aluminum	150/68
Suction lift [ft/m]	Dry	8.2/2.5
	Wet	27.9/8.5
Temperature max [°F/°C]	Aluminum	150/65.5*
Max. particle size [in/mm]		0.38/9.4
Non wetted material, center section	Aluminum	

^{* 220/104.4} with Teflon balls

codes VA 80 no.2 no.3 no.4 no.5

no.2 wetted material

AL = Aluminum

no.3 seat material

SS = Stainless Steel

SP = Santoprene

GE = Geolast

HY = Hytrel

no.4 valve material

TF = Teflon

SP = Santoprene

GE = Geolast

AC = Acetal

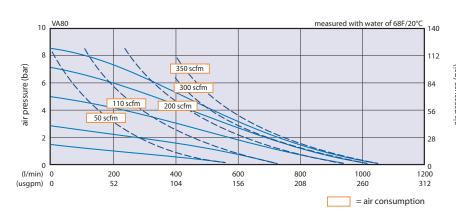
no.5 diaphragm material

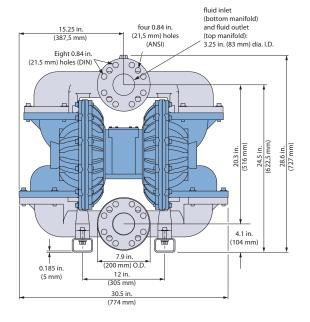
TF = Teflon

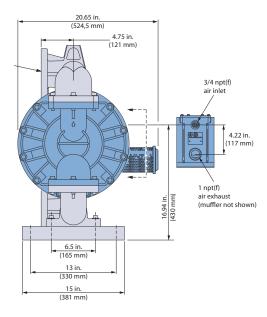
HY = Hytrel

SP = Santoprene

GE = Geolast



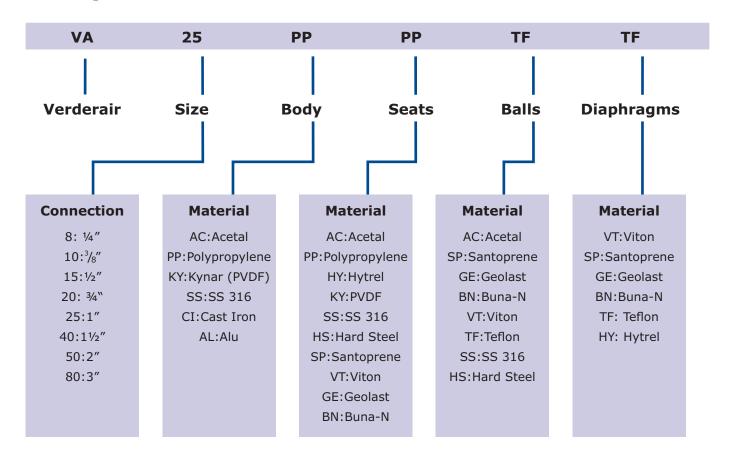


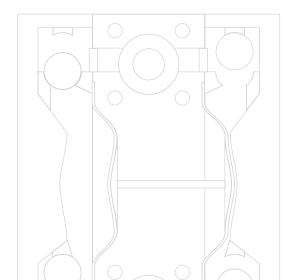


all pressure (psi)



Pump Model Selection Menu





Applications

Automotive industry

Grinding emulsion

Oil

Coolant

Hydraulic fluid Sulphuric acid

Automotive primer

Soluble oil

Varnish disposal Varnish additives Degreasing baths

Cutting oil

Ware and glycol mixture

Paint

Aviation

Aircraft fuelling and drainage

Satellite refueling

Solid rocket propellant

Missile silo's

Beverages

Yeast

Diatomaceous earth

Slurry Dregs Hot pulp Liquid hops

Sugar syrup Concentrates

Gas-liquid mixtures

Wine Fruit pulp Fruit juice Corn syrup

Ceramics

Slip Glaze

Enamel slip

Effluent Clay

Clay slurry Jime slurry Kaolin slurry

Chemical industry

Acids Alkaline Solvents Suspensions Dispersions

Magnesium hydroxide

Varnishes Sump water Resins Latex

Adhesives Effluent sludge

Stabilizers Filter press Electrolyte

Construction industry

Sump and pit drainage

Cement slurry

Ceramic tiles adhesive

Rock slurry

Ceiling coating paints

Texture spray

Cosmetics

Lotions
Creams
Shampoos
Emulsions
Hand creams
Surfactants
Hair permanents

Soaps

Electronic industry

Solvents

Electroplating baths Ultrapure liquids

Carrier fluids for ultrasonic washing

Sulfuric

Nitric and acid wastes

Etching acids

Mek Acetone

Polishing compounds

Food

Brine Chocolate Vinegar Molasses Dog food Vegetable oil Soy bean oil

Honey

Cat food Hci

Yoghurt

Animal blood Sour cream Ice cream Milk

Light viscosity cheeses Pharmaceutical lotions Concentrated fruit juices

Tomato paste

Wine Oils

Jams & jellies

Sauces, pastes and starches

Corn syrup Mineral oil Lanolin alcohol

Glycol

Animal blood

Furniture industry

Adhesives
Varnishes
Dispersions
Solvents
Stains
Elmers glue
White wood glue

Solvents Glue

(5-6000 cps) Epoxy Starch adhesives Spray packages

Mining

Sump gallery drainage Sewer cleaning Coal sludge and rock

Slurry
Cement slurry
Grouting mortar
Oil transfer
Explosive slurry
Adhesives

Lube oil Foaming

Municipalities

Tank and sump drainage Sewer cleaning chemicals Contaminated surface water Emergency pumping

Spill clean-up Waste-oil

Oil / water separators

Paint and coatings

Resins Solvents Acrylic

Wood preservative stain

Concrete paints

Varnishes

Titanium dioxide slurry

Primers Stains

Dispersions

Varnish cleaning baths

Alkaloid resin

Pharmaceutical industry

Vegetable extracts Tablet pastes Ointments Alcohols Filtering aids Ultra filtration

Blood plasma Waste solvents Sump waste

Plating

Anodic sludge

Electroplating baths

Varnishes Enamels Solvents Cleaning baths

Filtering

Pulp/paper/packaging

Latex Adhesives **Paints** Resins Printing inks Dispersions Tio2 slurry Kaolin clay Hydrogen peroxide

Refineries

Tank roof drainage Oil sludge Tank cleaning Tank moat drainage Portable pumping

Road tanker trucksloading and draining of tank by means of pump on vehicle

Tank vehicle washing facilities Acid spraying Foaming

Shipbuilding

Tank and bilge drainage Ship cleaning

Stripping Oil skimming Seawater smelters

Foundries and dye casting

Metal slurry

Hydroxide and carbide slurry

Dust scrubbing slurry

Back wash for flushing of cores

Mould release

Textile and carpet

Dyeing chemical Scotchgard* Starch and sizing Resins

Dyes

Water and sewage treatment

Milk of lime Thin slurry Effluents Chemicals

Charging of filter presses

Polymer Waste water

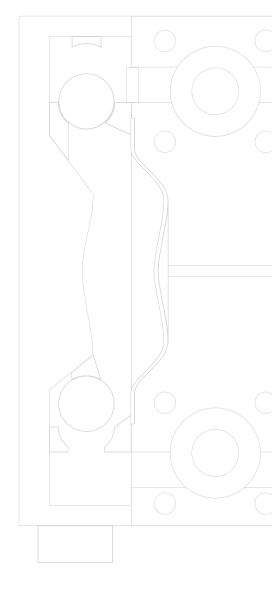
Utility contaminated

Liquids

Charging of scrubbers

Milk of lime Transformer oil Resins

* official trademark of 3M





The Verder Group Passion for pumps

Liquids handling is the original passion of the Verder Group. Its liquids handling companies supply a wide range of first-class pumps for a variety of industrial purposes.

Verder Liquids is active in many industrial sectors: chemical and process industry, food, pharmaceutical, water treatment, and environmental industries.

Within these industries pump requirements vary enormously and applications and needs change frequently. In order to ensure we provide the best solutions. We analyze and monitor industrial trends as well as maintaining close relationships with our customers.

International presence

The Verder Group Liquids division has affiliates in:

Austria - Belgium - China - Czech Republic - France - Germany
Great Britain - Hungary - The Netherlands - Poland - Romania
Slovakia - South Africa - United States of America.

Your advantages

The advantages of working with us are clear, we offer you:

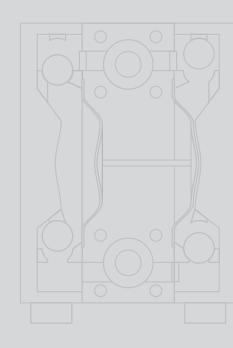
- single-source solutions: Verder's wide and complementary range of pumps allows you to source your entire pumping needs from one company, reducing your costs;
- expertise: years of providing pumping solutions to industry have given us valuable expertise and knowledge which we are able to use to supply the most appropriate and reliable pumps;
- international affiliated company: our size gives you the confidence that you are dealing with a powerful international pump company and if your project involves overseas work then you can profit from our international network of companies.

Contact Verder

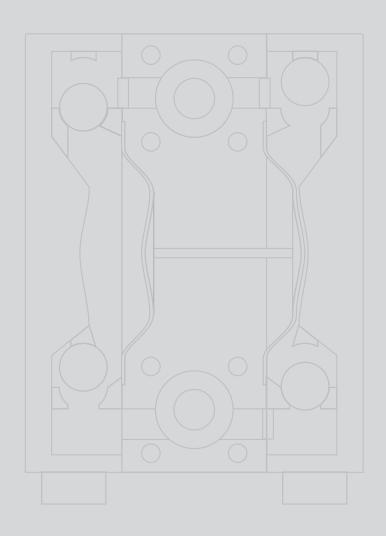
If you would like to know more about our pumping solutions then please visit our website www.verder.com/liquidshandling. You will find the full range of our pump ranges as well as application stories, latest news and the contact details of our local specialist.

Notes

Notes



Verderair Double Diaphragm Pumps are problem solvers in all industries





Any questions? You may still have questions and/or comments after reading this brochure. Please feel free to contact us on 1 877 7 VERDER You can also respond via email to info@verder.com. For more information about Verderair please visit our website www.verdergpm.com



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