

THE ALL-PURPOSE PUMP FOR ANY APPLICATION

All-Flo offers an extensive line of sizes and material options to fit virtually any application requirement. Modular components allow for easy customization using off-the-shelf components.

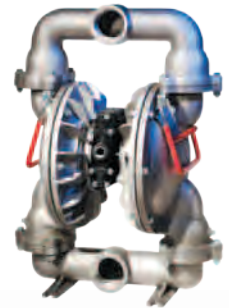
HEAVY DUTY METALLIC PUMP

FEATURES

- Non-Metallic Air Section
- Bolted Chamber Design
- Unbalanced Air Spool
- Thermoplastic Diaphragms
- Stainless and Aluminum
- Sizes 1/2" to 3"

BENEFITS

- Lightweight and Corrosion Resistant
- Ease of Maintenance
- Stall Free Operation
- Extended Operational Life
- Maximum Chemical Compatibility
- Wide Application Range (17GPM to 255GPM)



HEAVY DUTY NON-METALLIC PUMPS

FEATURES

- Multiple Porting Options
- Bolted Chamber Design
- Unbalanced Air Spool
- Thermoplastic Diaphragms
- Available in a Variety of Materials
- Sizes 1/2" to 3"

BENEFITS

- Flexibility of Installation
- Ease of Maintenance
- Stall Free Operation
- Extended Operational Life
- Maximum Chemical Compatibility
- Wide Application Range (17GPM to 255GPM)



ALL-PUR FDA MATERIAL PUMPS

FEATURES

- FDA Tri-Clamps
- Electropolished and Passivated Stainless Steel
- Bolted Chamber Design
- Unbalanced Air Spool
- Thermoplastic Diaphragms
- Sizes 1" to 2"

BENEFITS

- Quick Disconnect and Cleaning
- Allows for Sanitary Installation
- Ease of Maintenance
- Stall Free Operation
- Extended Operational Life
- Wide Application Range (17GPM to 255GPM)



MAX-PASS™ SOLIDS HANDLING PUMPS

FEATURES

- Max-Pass™ Solids Handling Valve
- Non-Metallic Air Section
- Bolted Chamber Design
- Unbalanced Air Spool
- Thermoplastic Diaphragms
- Available in Metallic and Non-Metallic Designs
- Sizes 1/2" and 1"

BENEFITS

- Increased Suction Lift
- Lightweight and Corrosion Resistant
- Ease of Maintenance
- Stall Free Operation
- Extended Operational Life
- Maximum Chemical Compatibility
- Solids handling from 3/8" to 3/4"



INTERMITTENT DUTY NON-METALLIC PUMPS

FEATURES

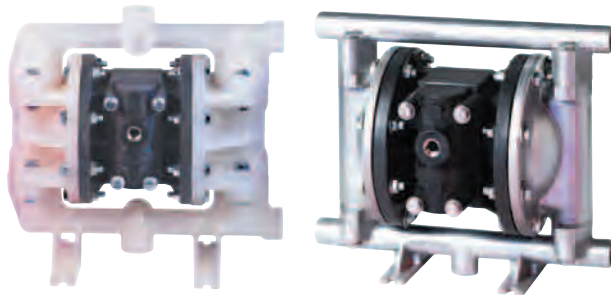
- Mechanical Air Section
- Compact Design
- Thermoplastic Diaphragms
- Available in a Variety of Materials
- Sizes 1/4" and 3/8"
- Max-Pass™ Available

BENEFITS

- Reliable Operation
- Allows for Small Footprint Installation
- Extended Diaphragm Life
- Maximum Chemical Compatibility
- Flow Rated from 4GPM to 9 GPM
- Increased Suction Lift



1/2" HEAVY DUTY BOLTED STYLE PUMP



1/2" HEAVY DUTY BOLTED STYLE PUMP

Engineered for maximum fluid and chemical compatibility. Heavy duty, non-metallic air valve ensures stall free and freeze free operation. Bolted design provides ease of maintenance and leak free operation. Available in a variety of materials and options.

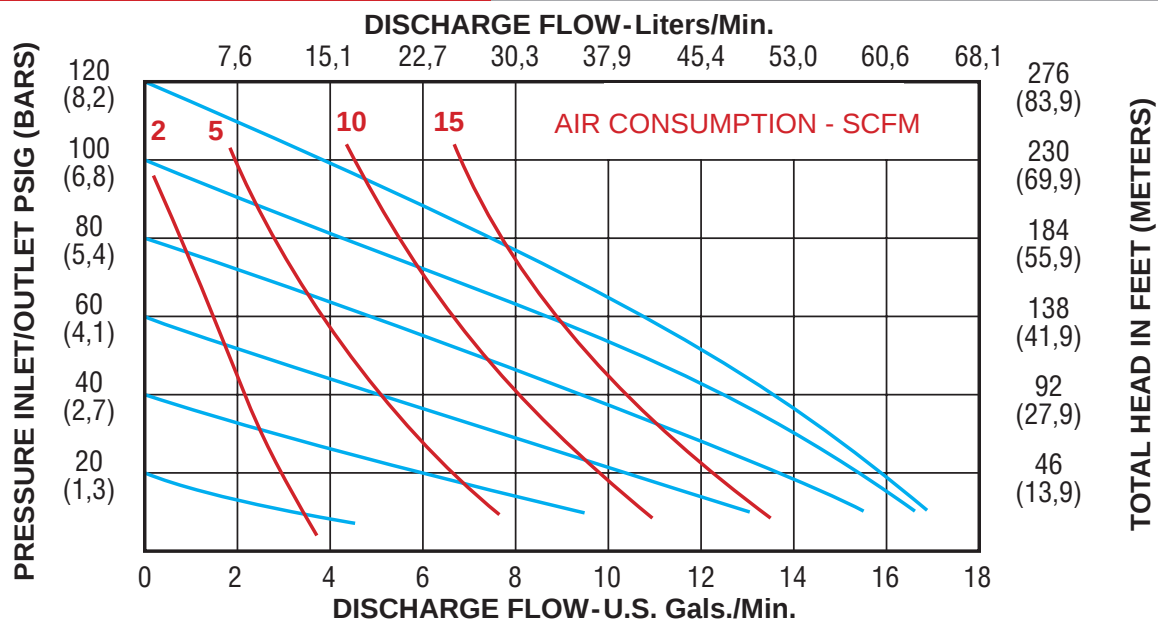
- Suitable for Clean Fluids, Slurries or up to 1/8" Solids
- Heavy Duty Air Valve
- Available in Metallic or Non-Metallic Wetted Components
- Muffler Included

SPECIFICATIONS

Dimension	
Physical Dimensions	See Drawing Page 74
Air Inlet	1/4"
Liquid Inlet	1/2"
Liquid Outlet	1/2"
Weight	See Product Tables
Performance	
Maximum Flow	17 gpm (64.6 lpm)
Maximum Air Pressure	120 psi (8.2 bar)
Maximum Solids	1/8" (3.2 mm)
Max Suction Lift Dry	15 ft (4.5 m)
Max Suction Lift Wet	26 ft (7.9 m)
Max Suction Lift Dry with PTFE	10 ft (3 m)
Max Temperature	See Product Tables
Noise Level (with muffler)	83 dBA



PERFORMANCE CURVE (Based on water-flooded suction)



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1/2" - ALUMINUM - General Purpose pump, suitable for water, oils, most solvents, and most paints. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
AN-05	Geolast®	Nitrile	Polypropylene	Nitrile	SS	10 (4.5)	180 (100)	Pg. 74	NPT (BSP)
AB-05	Geolast®	Geolast®	Polypropylene	Nitrile	SS	10 (4.5)	180 (100)	Pg. 74	NPT (BSP)
AB-05-B2	Geolast®	PTFE	Polypropylene	Nitrile	SS	10 (4.5)	212 (100)	Pg. 74	NPT (BSP)
AT-05	PTFE	PTFE	Nylon	PTFE	SS	10 (4.5)	212 (100)	Pg. 74	NPT (BSP)
AE-05	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	10 (4.5)	212 (100)	Pg. 74	NPT (BSP)
AV-05	Viton®	Viton®	Nylon	Viton®	SS	10 (4.5)	212 (100)	Pg. 74	NPT (BSP)

1/2" - 316 SS - Corrosion resistant steel, suitable for nitric acid, chlorinated solvents, caustics and marine applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
SN-05	Geolast®	Nitrile	SS	Nitrile	SS	19 (8.6)	180 (100)	Pg. 74	NPT (BSP)
SB-05	Geolast®	Geolast®	SS	Nitrile	SS	19 (8.6)	180 (100)	Pg. 74	NPT (BSP)
SP-05	PTFE	PTFE	SS	PTFE	SS	19 (8.6)	212 (100)	Pg. 74	NPT (BSP)
SE-05	Santoprene®	Santoprene®	SS	EPDM	SS	19 (8.6)	212 (100)	Pg. 74	NPT (BSP)
SV-05	Viton®	Viton®	SS	Viton®	SS	19 (8.6)	212 (100)	Pg. 74	NPT (BSP)

1/2" - POLYPROPYLENE - A non-metallic material, suitable for water, caustics, soap solutions, mild acids and general purpose applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
PN-05	Geolast®	Nitrile	Polypropylene	Nitrile	SS	9 (4.1)	150 (66)	Pg. 74	NPT (BSP)
PB-05	Geolast®	Geolast®	Polypropylene	Nitrile	SS	9 (4.1)	150 (66)	Pg. 74	NPT (BSP)
PT-05	PTFE	PTFE	Polypropylene	PTFE	SS	9 (4.1)	150 (66)	Pg. 74	NPT (BSP)
PE-05	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	9 (4.1)	150 (66)	Pg. 74	NPT (BSP)
PV-05	Viton®	Viton®	Polypropylene	Viton®	SS	9 (4.1)	150 (66)	Pg. 74	NPT (BSP)

1/2" - PVDF - Polyvinylidene Fluoride suitable in applications requiring the highest purity, strength, and resistance to solvents, acids, and bases. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
KT-05	PTFE	PTFE	PVDF	PTFE	SS	12 (5.4)	200 (93)	Pg. 74	NPT (BSP)
KE-05	Santoprene®	Santoprene®	PVDF	EPDM	SS	12 (5.4)	200 (93)	Pg. 74	NPT (BSP)
KV-05	Viton®	Viton®	PVDF	Viton®	SS	12 (5.4)	200 (93)	Pg. 74	NPT (BSP)

1/2" - NYLON - A non-metallic material, suitable for most solvents and oils. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
NN-05	Geolast®	Nitrile	PVDF	Nitrile	SS	9 (4.1)	150 (66)	Pg. 74	NPT (BSP)
NB-05	Geolast®	Geolast®	PVDF	Nitrile	SS	9 (4.1)	150 (66)	Pg. 74	NPT (BSP)
NT-05	PTFE	PTFE	PVDF	PTFE	SS	9 (4.1)	150 (66)	Pg. 74	NPT (BSP)
NV-05	Viton®	Viton®	PVDF	Viton®	SS	9 (4.1)	150 (66)	Pg. 74	NPT (BSP)



1/2" HEAVY DUTY BOLTED STYLE PUMP

1/2" - CONDUCTIVE NYLON - Stainless steel filled nylon, suitable for most solvents and alcohols. Grounding lugs provided with pump. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
CN-05	Geolast®	Nitrile	SS	Nitrile	SS	12 (5.4)	150 (66)	Pg. 74	NPT (BSP)
CB-05	Geolast®	Geolast®	SS	Nitrile	SS	12 (5.4)	150 (66)	Pg. 74	NPT (BSP)
CT-05	PTFE	PTFE	SS	PTFE	SS	12 (5.4)	150 (66)	Pg. 74	NPT (BSP)
CV-05	Viton®	Viton®	SS	Viton®	SS	12 (5.4)	150 (66)	Pg. 74	NPT (BSP)

AVAILABLE OPTIONS - Each pump can be configured to suit a particular application. Please see the options section for detailed product information on the following available options.

AIR VALVE OPTIONS	SEE PAGE 67
CYCLE COUNT VALVE	SOLENOID ADAPTOR VALVE
BALL VALVE OPTIONS	SEE PAGE 67
GEOLAST®	PTFE
SANTOPRENE®	STAINLESS STEEL
BALL VALVE OPTIONS	SEE PAGE 67
HARD COAT ANODIZING	
PASSIVATED & ELECTROPOLISHED	
HARDWARE OPTIONS	SEE PAGE 67
PTFE COATED HARDWARE	
O-RINGS	SEE PAGE 67
PTFE O-RINGS	NITRILE O-RINGS
EPDM O-RINGS	VITON O-RINGS
PORTING OPTIONS	SEE PAGE 68
DUAL DISCHARGE / SUCTION	ALL PORTS OPEN
DISCHARGE UP, AIR INLET / EXHAUST	
SUCTION / DOWN, AIR INLET/EXHAUST	
SUCTION / DISCHARGE LEFT	
SUCTION RIGHT & DISCHARGE LEFT	
SUCTION LEFT & DISCHARGE RIGHT	
VALVE SEAT OPTIONS	SEE PAGE 68
POLYPROPYLENE	PVDF
STAINLESS STEEL	
MAX PASS VALVE SOLIDS HANDLING OPTIONS	SEE PAGE 68
NITRILE	EPDM
	FDA VITON®

AVAILABLE ACCESSORIES - Please see the accessories section for detailed product information on the following available accessories.

AIR	SEE PAGE
FILTER / REGULATOR / GAUGE	60
SOLENOID VALVES	60
AIR FLOW CONTROL VALVES	60
NEEDLE VALVE	60
LIQUID	
SUCTION STRAINER	61
FILTER HOUSING	61
PUMP	
PREMIUM MUFFLER	63
GROUNDING LUG	64
METAL MUFFLER	63



METALLIC
All of our 1/2" metallic pumps have a non-metallic center section. This design concept ensures maximum chemical compatibility while protecting from environmental corrosion.



CONDUCTIVE NYLON
Our conductive nylon pumps achieve desired chemical compatibility while providing grounding capability for safe operation.

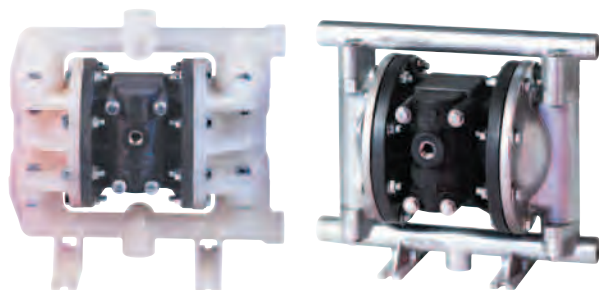


NON-METALLIC
Our non-metallic pumps are available in a variety of materials and porting options, allowing for maximum application installation.



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Website: www.qukointl.com





1/2" HEAVY DUTY BOLTED STYLE SOLIDS HANDLING PUMP

Engineered for maximum fluid and chemical compatibility. Heavy duty, stall free, non-metallic air section ensures stall free and freeze free operation. Our patented "Max-Pass"™ valve system allows operation under a variety of conditions, ranging from clean fluids to slurries, to solids applications. Bolted design provides ease of maintenance and leak free operation. Available in a variety of materials and options.

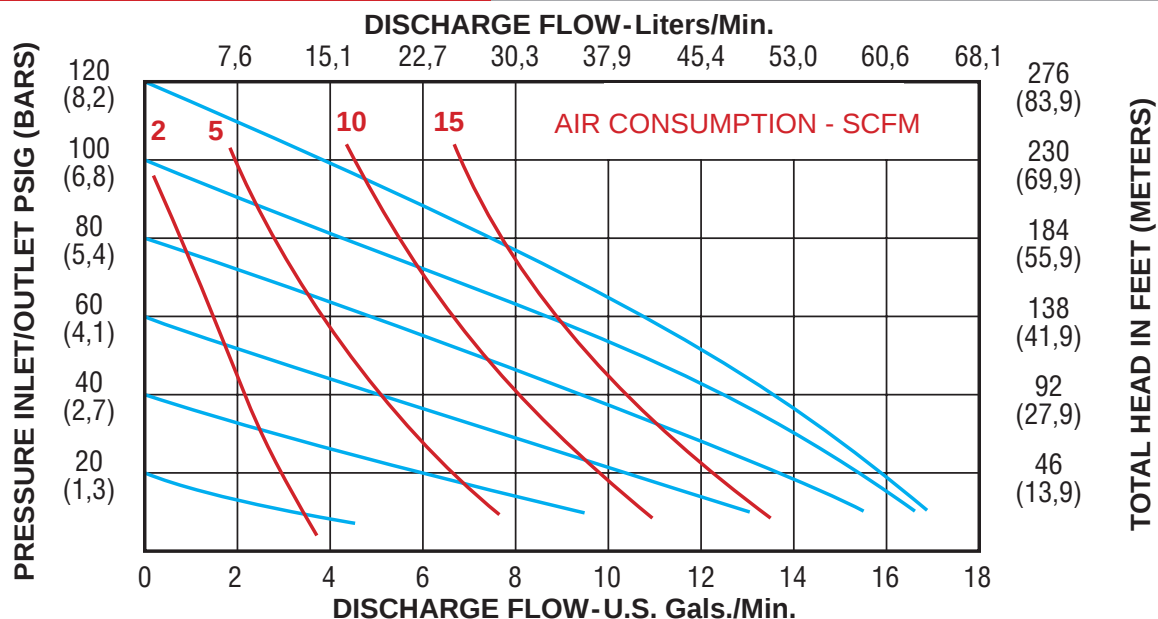
- Suitable for Clean Fluids, Slurries or up to 3/8" Solids
- Heavy Duty Air Valve
- Available in Metallic or Non-Metallic Wetted Components
- Muffler Included

SPECIFICATIONS

Dimension	
Physical Dimensions	See Drawing Page 74
Air Inlet	1/4"
Liquid Inlet	1/2"
Liquid Outlet	1/2"
Weight	See Product Tables
Performance	
Maximum Flow	17 gpm (64.6 lpm)
Maximum Air Pressure	120 psi (8.2 bar)
Maximum Solids	3/8" (mm)
Max Suction Lift Dry	20 ft (6 m)
Max Suction Lift Wet	26 ft (7.9 m)
Max Temperature	See Product Tables
Noise Level (with muffler)	83 dBA



PERFORMANCE CURVE (Based on water-flooded suction)



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1/2" HEAVY DUTY BOLTED STYLE SOLIDS HANDLING PUMP

1/2" - ALUMINUM - General purpose pump, suitable for water, oils, most solvents, and most paints. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
AB-05-M4	Geolast®	Nitrile Max-Pass™	N/A	Nitrile	SS	10 (4.5)	180 (82)	Pg. 74	NPT (BSP)
AE-05-M5	Santoprene®	EPDM Max-Pass™	N/A	EPDM	SS	10 (4.5)	212 (100)	Pg. 74	NPT (BSP)
AV-05-M6	Viton®	Viton® Max-Pass™	N/A	Viton®	SS	10 (4.5)	212 (100)	Pg. 74	NPT (BSP)

1/2" - 316 SS - Corrosion resistant steel, suitable for nitric acid, chlorinated solvents, caustics and marine applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
SB-05-M4	Geolast®	Nitrile Max-Pass™	N/A	Nitrile	SS	19 (8.6)	180 (82)	Pg. 74	NPT (BSP)
SE-05-M5	Santoprene®	EPDM Max-Pass™	N/A	EPDM	SS	19 (8.6)	212 (100)	Pg. 74	NPT (BSP)
SV-05-M6	Viton®	Viton® Max-Pass™	N/A	Viton®	SS	19 (8.6)	212 (100)	Pg. 74	NPT (BSP)

1/2" - POLYPROPYLENE - A non-metallic material, suitable for water, caustics, soap solutions, mild acids and general purpose applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
PB-05-M4	Geolast®	NITRILE Max-Pass™	N/A	Nitrile	SS	9 (4.1)	150 (66)	Pg. 74	NPT (BSP)
PE-05-M5	Santoprene®	EPDM Max-Pass™	N/A	EPDM	SS	9 (4.1)	150 (66)	Pg. 74	NPT (BSP)
PV-05-M40	Viton®	Viton® Max-Pass™	N/A	Viton®	SS	9 (4.1)	150 (66)	Pg. 74	NPT (BSP)

1/2" - PVDF - Polyvinylidene fluoride suitable in applications requiring the highest purity, strength, and resistance to solvents, acids, and bases. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
KE-05-M5	Santoprene®	EPDM Viton®	N/A	EPDM	SS	12 (5.4)	200 (93)	Pg. 74	NPT (BSP)
KV-05-M40	Viton®	Viton®	N/A	Viton®	SS	12 (5.4)	200 (93)	Pg. 74	NPT (BSP)

1/2" - NYLON - A non-metallic material, suitable for most solvents and oils. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
NB-05-M4	Geolast®	NITRILE Max-Pass™	N/A	Nitrile	SS	9 (4.1)	150 (66)	Pg. 74	NPT (BSP)
NV-05-M40	Viton®	Viton® Max-Pass™	N/A	Viton®	SS	9 (4.1)	150 (66)	Pg. 74	NPT (BSP)

1/2" - CONDUCTIVE NYLON - Stainless steel filled nylon, suitable for most solvents and alcohols. Grounding lugs provided with pump. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE (BSP)
CB-05-M4	Geolast®	Nitrile Max-Pass™	N/A	Nitrile	SS	10 (4.5)	150 (66)	Pg. 74	NPT (BSP)
CV-05-M40	Viton®	Viton® Max-Pass™	N/A	Viton®	SS	10 (4.5)	150 (66)	Pg. 74	NPT (BSP)



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AVAILABLE OPTIONS - Each pump can be configured to suit a particular application. Please see the options section for detailed product information on the following available options.

AIR VALVE OPTIONS		SEE PAGE 67
CYCLE COUNT VALVE	SOLENOID ADAPTOR VALVE	
BALL VALVE OPTIONS		SEE PAGE 67
GEOLAST®	PTFE	
SANTOPRENE®	STAINLESS STEEL	
WETTED CHAMBER FINISH OPTIONS		SEE PAGE 67
HARD COAT ANODIZING		
PASSIVATED & ELECTROPOLISHED		
HARDWARE OPTIONS		SEE PAGE 67
PTFE COATED HARDWARE		
O-RINGS		SEE PAGE 67
PTFE O-RINGS	NITRILE O-RINGS	
EPDM O-RINGS	VITON® O-RINGS	
PORTING OPTIONS		SEE PAGE 68
DUAL DISCHARGE / SUCTION	ALL PORTS OPEN	
SUCTION / DOWN		
VALVE SEAT OPTIONS		SEE PAGE 68
POLYPROPYLENE	NYLON	
PVDF	STAINLESS STEEL	
MAX PASS VALVE SOLIDS HANDLING OPTIONS		SEE PAGE 68
NITRILE	EPDM	FDA VITON®
MISC. AND SPECIAL OPTIONS		SEE PAGE 68
ATEX CATEGORY 2		

AVAILABLE ACCESSORIES - Please see the accessories section for detailed product information on the following available accessories.

AIR		SEE PAGE
FILTER / REGULATOR / GAUGE		60
SOLENOID VALVES		60
AIR FLOW CONTROL VALVES		60
NEEDLE VALVE		60
LIQUID		
SUCTION STRAINER		61
FILTER HOUSING		61
PUMP		
PREMIUM MUFFLER		63
GROUNDING LUG		64
METAL MUFFLER		63

MAX-PASS SOLIDS HANDLING VALUE

- Increased suction lift
- Up to 3/8" solids
- Mounts in any position



METALLIC

All of our 1/2" metallic pumps have a non-metallic center section. This design concept ensures maximum chemical compatibility while protecting from environmental corrosion.



CONDUCTIVE NYLON

Our conductive nylon pumps achieve desired chemical compatibility while providing grounding capability for safe operation.



NON-METALLIC

Our non-metallic pumps are available in a variety of materials and porting options, allowing for maximum application installation.



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1/2" HEAVY DUTY CLAMPED STYLE PUMP



1/2" HEAVY DUTY CLAMPED STYLE PUMP

Reliable polypropylene air center section combined with non-metallic clamped casing materials ensure maximum chemical compatibility. Available in a variety of materials and options.

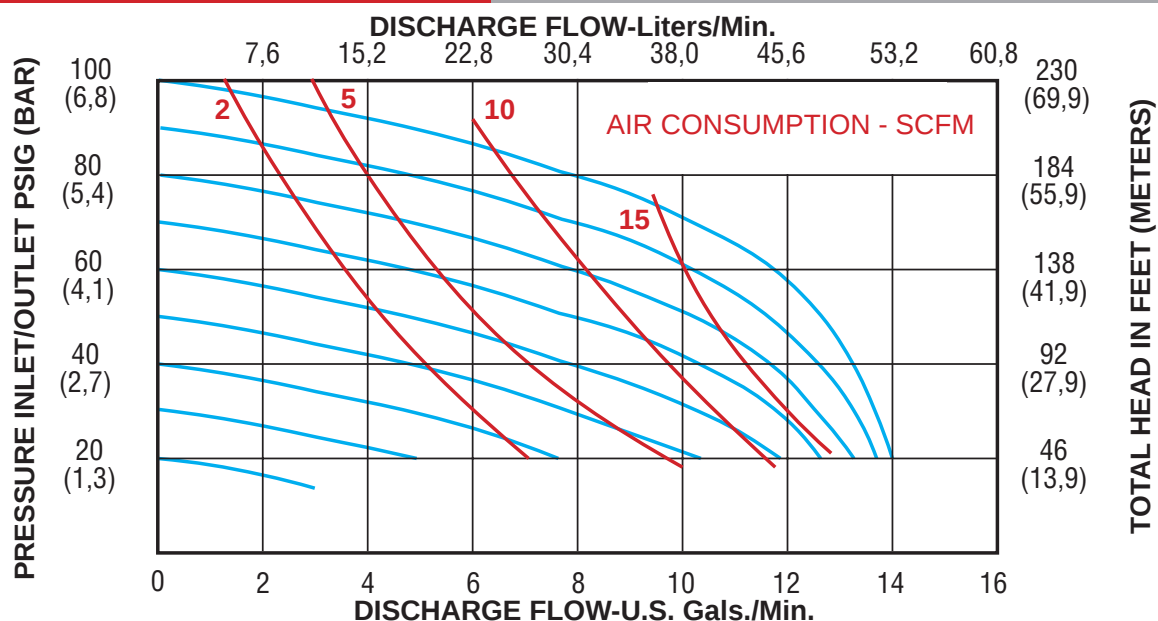
- Suitable for Clean Fluids, Slurries or up to 1/8" Solids
- Heavy Duty Air Valve
- Non-Metallic Wetted Components
- Muffler Included

SPECIFICATIONS

Dimension	
Physical Dimensions	See Drawing Page 75
Air Inlet	1/4"
Liquid Inlet	1/2"
Liquid Outlet	1/2"
Weight	See Product Tables
Performance	
Maximum Flow	gpm (lpm)
Maximum Air Pressure	100 psi (6.8 bar)
Maximum Solids	1/8" (3.2 mm)
Max Suction Lift Dry	15 ft (4.5 m)
Max Suction Lift Wet	26 ft (7.9 m)
Max Suction Lift Dry with PTFE	10 ft (3 m)
Max Temperature	See Product Tables
Noise Level (with muffler)	83 dBA



PERFORMANCE CURVE (Based on water-flooded suction)



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1/2" - POLYPROPYLENE - A non-metallic material, suitable for water, caustics, soap solutions, mild acids and general purpose applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
NC-5N	Geolast®	Nitrile	Polypropylene	Nitrile	SS & PS	8 (3.6)	150 (66)	Pg. 75	NPT (BSP)
NC-5	Geolast®	Geolast®	Polypropylene	Nitrile	SS & PS	8 (3.6)	150 (66)	Pg. 75	NPT (BSP)
BK-5	PTFE	PTFE	Polypropylene	PTFE	SS	8 (3.6)	150 (66)	Pg. 75	NPT (BSP)
BK-5E	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	8 (3.6)	150 (66)	Pg. 75	NPT (BSP)
BK-5V	Viton®	Viton®	Polypropylene	Viton®	SS	8 (3.6)	150 (66)	Pg. 75	NPT (BSP)

1/2" - PVDF - Polyvinylidene fluoride suitable in applications requiring the highest purity, strength, and resistance to solvents, acids, and bases. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
KN-5	PVDF	PTFE	PTFE	PVDF	SS	11 (5.0)	200 (93)	Pg. 75	NPT (BSP)
KN-5E	Santoprene®	Santoprene®	PVDF	EPDM	SS	11 (5.0)	200 (93)	Pg. 75	NPT (BSP)
KN-5V	PVDF	Viton®	Viton®	PVDF	SS	11 (5.0)	200 (93)	Pg. 75	NPT (BSP)

AVAILABLE OPTIONS - Each pump can be configured to suit a particular application. Please see the options section for detailed product information on the following available options.

AIR VALVE OPTIONS	SEE PAGE 67
CYCLE COUNT VALVE	
BALL VALVE OPTIONS	SEE PAGE 67
GEOLAST®	PTFE
SANTOPRENE®	STAINLESS STEEL
HARDWARE OPTIONS	SEE PAGE 67
PTFE COATED HARDWARE	
O-RINGS	SEE PAGE 67
PTFE O-RINGS	NITRILE O-RINGS
EPDM O-RINGS	VITON® O-RINGS
PORTING OPTIONS	SEE PAGE 68
DUAL DISCHARGE / SUCTION	
DISCHARGE UP, AIR INLET	
SUCTION / DOWN, AIR INLET	
SUCTION / DISCHARGE LEFT	
SUCTION RIGHT & DISCHARGE LEFT	
SUCTION LEFT & DISCHARGE RIGHT	
VALVE SEAT OPTIONS	SEE PAGE 68
POLYPROPYLENE	NYLON
PVDF	STAINLESS STEEL

AVAILABLE ACCESSORIES - Please see the accessories section for detailed product information on the following available accessories.

AIR	SEE PAGE
FILTER / REGULATOR / GAUGE	60
SOLENOID VALVES	60
AIR FLOW CONTROL VALVES	60
NEEDLE VALVE	60
LIQUID	
SUCTION STRAINER	61
FILTER HOUSING	61
PUMP	
METAL MUFFLER	63
GROUNDING LUG	64



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1/2" HEAVY DUTY BOLTED STYLE DRUM PUMP



1/2" HEAVY DUTY BOLTED STYLE DRUM PUMP

Engineered for maximum fluid and chemical compatibility. Heavy duty, non-metallic air section ensures stall free and freeze free operation. Rugged valve system allows operation under a variety of conditions, ranging from clean fluids to slurries, to small solids. Bolted design provides ease of maintenance and leak free operation. Available in a variety of materials and options.

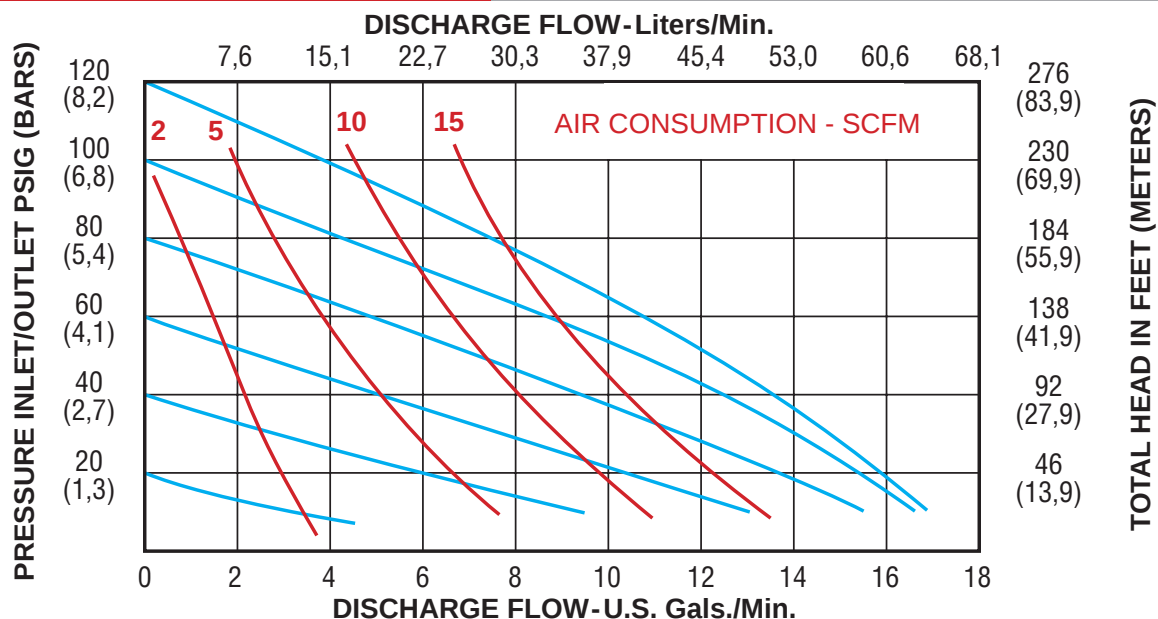
- Suitable for Clean Fluids, Slurries or up to 1/8" Solids
- Includes 40" Suction Tube and Bung Adaptor
- Solids Handling Options Available
- Heavy Duty Air Valve
- Muffler Included

SPECIFICATIONS

Dimension	
Physical Dimensions	See Drawing Page 74
Air Inlet	1/4"
Liquid Inlet	1/2"
Liquid Outlet	1/2"
Weight	See Product Tables
Performance	
Maximum Flow	17 gpm (64.6 lpm)
Maximum Air Pressure	120 psi (8.2 bar)
Maximum Solids	1/8" (3.2 mm)
Max Suction Lift Dry	15 ft (4.5 m)
Max Suction Lift Wet	26 ft (7.9 m)
Max Suction Lift Dry with PTFE	10 ft (3 m)
Max Temperature	See Product Tables
Noise Level (with muffler)	83 dBA



PERFORMANCE CURVE (Based on water-flooded suction)



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1/2" - ALUMINUM - General purpose pump, suitable for water, oils, most solvents, and most paints. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
AND-05	Geolast®	Nitrile	Polypropylene	Nitrile	SS	17 (7.7)	180 (82)	Pg. 74	NPT (BSP)
ABD-05	Geolast®	Geolast®	Polypropylene	Nitrile	SS	17 (7.7)	180 (82)	Pg. 74	NPT (BSP)
ABD-05-B2	Geolast®	PTFE	Polypropylene	Nitrile	SS	17 (7.7)	180 (82)	Pg. 74	NPT (BSP)
ATD-05	PTFE	PTFE	Nylon	PTFE	SS	17 (7.7)	212 (100)	Pg. 74	NPT (BSP)
AED-05	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	17 (7.7)	212 (100)	Pg. 74	NPT (BSP)
AVD-05	Viton®	Viton®	Nylon	Viton®	SS	17 (7.7)	212 (100)	Pg. 74	NPT (BSP)

1/2" - 316 SS - Corrosion resistant steel, suitable for nitric acid, chlorinated solvents, caustics and marine applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
SND-05	Geolast®	Nitrile	SS	Nitrile	SS	26 (11.8)	180 (82)	Pg. 74	NPT (BSP)
SBD-05	Geolast®	Geolast®	SS	Nitrile	SS	26 (11.8)	180 (82)	Pg. 74	NPT (BSP)
SPD-05	PTFE	PTFE	SS	PTFE	SS	26 (11.8)	212 (100)	Pg. 74	NPT (BSP)
SED-05	Santoprene®	Santoprene®	SS	EPDM	SS	26 (11.8)	212 (100)	Pg. 74	NPT (BSP)
SVD-05	Viton®	Viton®	SS	Viton®	SS	26 (11.8)	212 (100)	Pg. 74	NPT (BSP)

1/2" - POLYPROPYLENE - A non-metallic material, suitable for water, caustics, soap solutions, mild acids and general purpose applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
PND-05	Geolast®	Nitrile	Polypropylene	Nitrile	SS	16 (7.3)	150 (66)	Pg. 74	NPT (BSP)
PBD-05	Geolast®	Geolast®	Polypropylene	Nitrile	SS	16 (7.3)	150 (66)	Pg. 74	NPT (BSP)
PTD-05	PTFE	PTFE	Polypropylene	PTFE	SS	16 (7.3)	150 (66)	Pg. 74	NPT (BSP)
PED-05	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	16 (7.3)	150 (66)	Pg. 74	NPT (BSP)
PVD-05	Viton®	Viton®	Polypropylene	Viton®	SS	16 (7.3)	150 (66)	Pg. 74	NPT (BSP)

1/2" - PVDF - Polyvinylidene Fluoride suitable in applications requiring the highest purity, strength, and resistance to solvents, acids, and bases. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
KTD-05	PTFE	PTFE	PVDF	PTFE	SS	12 (5.4)	200 (93)	Pg. 74	NPT (BSP)
KED-05	Santoprene®	Santoprene®	PVDF	EPDM	SS	12 (5.4)	200 (93)	Pg. 74	NPT (BSP)
KVD-05	Viton®	Viton®	PVDF	Viton®	SS	12 (5.4)	200 (93)	Pg. 74	NPT (BSP)

1/2" - NYLON - A non-metallic material, suitable for most solvents and oils. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
NND-05	Geolast®	Nitrile	PVDF	Nitrile	SS	16 (7.3)	150 (66)	Pg. 74	NPT (BSP)
NBD-05	Geolast®	Geolast®	PVDF	Nitrile	SS	16 (7.3)	150 (66)	Pg. 74	NPT (BSP)
NTD-05	PTFE	PTFE	PVDF	PTFE	SS	16 (7.3)	150 (66)	Pg. 74	NPT (BSP)
NVD-05	Viton®	Viton®	PVDF	Viton®	SS	16 (7.3)	150 (66)	Pg. 74	NPT (BSP)



1/2" HEAVY DUTY BOLTED STYLE DRUM PUMP

1/2" - CONDUCTIVE NYLON - Stainless steel filled nylon, suitable for most solvents and alcohols. Grounding lugs provided with pump. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
CND-05	Geolast®	Nitrile	SS	Nitrile	SS	19 (8.6)	150 (66)	Pg. 74	NPT (BSP)
CBD-05	Geolast®	Geolast®	SS	Nitrile	SS	19 (8.6)	150 (66)	Pg. 74	NPT (BSP)
CTD-05	PTFE	PTFE	SS	PTFE	SS	19 (8.6)	150 (66)	Pg. 74	NPT (BSP)
CVD-05	Viton®	Viton®	SS	Viton®	SS	19 (8.6)	150 (66)	Pg. 74	NPT (BSP)

AVAILABLE OPTIONS - Each pump can be configured to suit a particular application. Please see the options section for detailed product information on the following available options.

AIR VALVE OPTIONS	SEE PAGE 67	
CYCLE COUNT VALVE	SOLENOID ADAPTOR VALVE	
BALL VALVE OPTIONS	SEE PAGE 67	
GEOLAST®	PTFE	
SANTOPRENE®	STAINLESS STEEL	
WETTED CHAMBER FINISH OPTIONS	SEE PAGE 67	
HARD COAT ANODIZING		
PASSIVATED & ELECTROPOLISHED		
HARDWARE OPTIONS	SEE PAGE 67	
PTFE COATED HARDWARE		
O-RINGS	SEE PAGE 67	
PTFE O-RINGS	NITRILE O-RINGS	
EPDM O-RINGS	VITON® O-RINGS	
PORTING OPTIONS	SEE PAGE 68	
DUAL DISCHARGE / SUCTION	ALL PORTS OPEN	
SUCTION / DOWN		
VALVE SEAT OPTIONS	SEE PAGE 68	
POLYPROPYLENE	NYLON	
PVDF	STAINLESS STEEL	
MAX PASS VALVE SOLIDS HANDLING OPTIONS	SEE PAGE 68	
NITRILE	EPDM	FDA VITON®
MISC. AND SPECIAL OPTIONS	SEE PAGE 68	
ATEX CATEGORY 2		

AVAILABLE ACCESSORIES - Please see the accessories section for detailed product information on the following available accessories.

AIR	SEE PAGE
FILTER / REGULATOR / GAUGE	60
SOLENOID VALVES	60
AIR FLOW CONTROL VALVES	60
NEEDLE VALVE	60
LIQUID	
SUCTION STRAINER	61
FILTER HOUSING	61
PUMP	
PREMIUM MUFFLER	63
METAL MUFFLER	63
GROUNDING LUG	64



METALLIC

All of our 1/2" metallic pumps have a non-metallic center section. This design concept ensures maximum chemical compatibility while protecting from environmental corrosion.



CONDUCTIVE NYLON

Our conductive nylon pumps achieve desired chemical compatibility while providing grounding capability for safe operation.



NON-METALLIC

Our non-metallic pumps are available in a variety of materials and porting options, allowing for maximum application installation.



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1" (25mm) HEAVY DUTY BOLTED STYLE PUMP



1" (25mm) HEAVY DUTY BOLTED STYLE PUMP

Engineered for maximum fluid and chemical compatibility. Heavy duty, non-metallic air section ensures stall free and freeze free operation. Bolted design provides ease of maintenance and leak free operation. Available in a variety of materials and options.

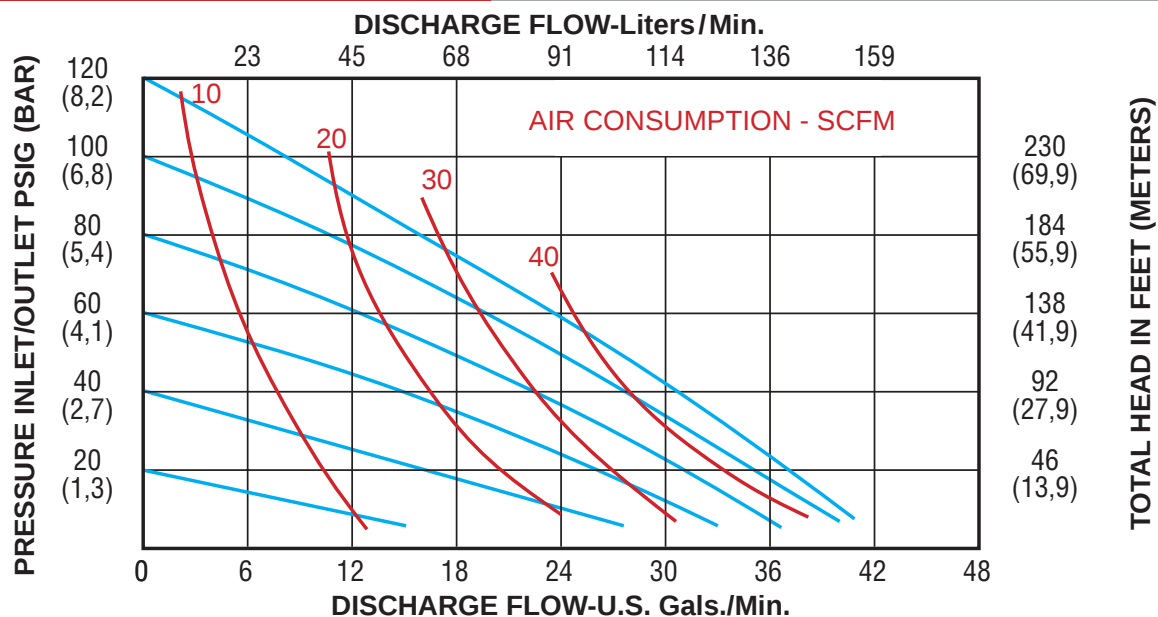
- Suitable for Clean Fluids, Slurries or up to 1/4" Solids
- All-Pur FDA Elastomers and Electropassivated Stainless Available
- Heavy Duty Air Valve
- Available in Metallic or Non-Metallic Wetted Components
- Muffler Included

SPECIFICATIONS

Dimension	
Physical Dimensions	See Drawing Page 75/76
Air Inlet	1/4"
Liquid Inlet	1" [25 mm]
Liquid Outlet	1" [25 mm]
Weight	See Product Tables
Performance	
Maximum Flow	41 gpm (155.8 lpm)
Maximum Air Pressure	120 psi (8.2 bar)
Maximum Solids	1/4" (6.4 mm)
Max Suction Lift Dry	15 ft (4.5 m)
Max Suction Lift Wet	26 ft (7.9 m)
Max Suction Lift Dry with PTFE	10 ft (3 m)
Max Temperature	See Product Tables
Noise Level (with muffler)	80 dBA



PERFORMANCE CURVE (Based on water-flooded suction)



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1" (25mm) - ALUMINUM - General purpose pump, suitable for water, oils, most solvents, and most paints. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
AN-10	Geolast®	Nitrile	Polypropylene	Nitrile	SS	28 (12.7)	180 (82)	Pg. 76	NPT
AB-10	Geolast®	Geolast®	Polypropylene	Nitrile	SS	28 (12.7)	180 (82)	Pg. 76	NPT
AB-10-B2	Geolast®	PTFE	Polypropylene	Nitrile	SS	28 (12.7)	180 (82)	Pg. 76	NPT
AT-10	PTFE	PTFE	Nylon	PTFE	SS	28 (12.7)	212 (100)	Pg. 76	NPT
AE-10	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	28 (12.7)	212 (100)	Pg. 76	NPT
AV-10	Viton®	Viton®	Nylon	Viton®	SS	28 (12.7)	212 (100)	Pg. 76	NPT
AN-10-P15	Geolast®	Nitrile	Polypropylene	Nitrile	SS	28 (12.7)	180 (82)	Pg. 76	BSP
AB-10-P15	Geolast®	Geolast®	Polypropylene	Nitrile	SS	28 (12.7)	180 (82)	Pg. 76	BSP
AB-10-B2-P15	Geolast®	PTFE	Polypropylene	Nitrile	SS	28 (12.7)	180 (82)	Pg. 76	BSP
AT-10-P15	PTFE	PTFE	Nylon	PTFE	SS	28 (12.7)	212 (100)	Pg. 76	BSP
AE-10-P15	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	28 (12.7)	212 (100)	Pg. 76	BSP
AV-10-P15	Viton®	Viton®	Nylon	Viton®	SS	28 (12.7)	212 (100)	Pg. 76	BSP

1" (25mm) - 316 SS - Corrosion resistant steel, suitable for nitric acid, chlorinated solvents, caustics and marine applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
SN-10	Geolast®	Nitrile	SS	Nitrile	SS	56 (25.4)	180 (82)	Pg. 76	NPT
SB-10	Geolast®	Geolast®	SS	Nitrile	SS	56 (25.4)	180 (82)	Pg. 76	NPT
SP-10	PTFE	PTFE	SS	PTFE	SS	56 (25.4)	212 (100)	Pg. 76	NPT
SE-10	Santoprene®	Santoprene®	SS	EPDM	SS	56 (25.4)	212 (100)	Pg. 76	NPT
SV-10	Viton®	Viton®	SS	Viton®	SS	56 (25.4)	212 (100)	Pg. 76	NPT
SN-10-P15	Geolast®	Nitrile	SS	Nitrile	SS	56 (25.4)	180 (82)	Pg. 76	BSP
SB-10-P15	Geolast®	Geolast®	SS	Nitrile	SS	56 (25.4)	180 (82)	Pg. 76	BSP
SP-10-P15	PTFE	PTFE	SS	PTFE	SS	56 (25.4)	212 (100)	Pg. 76	BSP
SE-10-P15	Santoprene®	Santoprene®	SS	EPDM	SS	56 (25.4)	212 (100)	Pg. 76	BSP
SV-10-P15	Viton®	Viton®	SS	Viton®	SS	56 (25.4)	212 (100)	Pg. 76	BSP

ALL-PÜR 1" (25mm) - ELECTROPOLISHED & PASSIVATED 316 SS - FDA elastomers and corrosion resistant steel. Suitable for food and sanitary applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMP °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
SB-10-X44	FDA Hytrel®	FDA Nitrile®	SS	FDA Nitrile®	SS	56 (25.4)	180 (82)	Pg. 76	1 1/2" Tri-Clamp
SP-10-X44	FDA PTFE	FDA PTFE	SS	FDA PTFE	SS	56 (25.4)	212 (100)	Pg. 76	1 1/2" Tri-Clamp
SE-10-X44	Santoprene®	Santoprene®	SS	FDA EPDM	SS	56 (25.4)	212 (100)	Pg. 76	1 1/2" Tri-Clamp

1" (25mm) - POLYPROPYLENE - A non-metallic material, suitable for water, caustics, soap solutions, mild acids and general purpose applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMP °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
PN-10	Geolast®	Nitrile	Polypropylene	Nitrile	SS	26 (11.8)	150 (66)	Pg. 75	ANSI / DIN Flange
PB-10	Geolast®	Geolast®	Polypropylene	Nitrile	SS	26 (11.8)	150 (66)	Pg. 75	ANSI / DIN Flange
PT-10	PTFE	PTFE	Polypropylene	PTFE	SS	26 (11.8)	150 (66)	Pg. 75	ANSI / DIN Flange
PE-10	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	26 (11.8)	150 (66)	Pg. 75	ANSI / DIN Flange
PV-10	Viton®	Viton®	Polypropylene	Viton®	SS	26 (11.8)	150 (66)	Pg. 75	ANSI / DIN Flange



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1" (25mm) HEAVY DUTY BOLTED STYLE PUMP

1" (25mm) - PVDF - Polyvinylidene fluoride suitable in applications requiring the highest purity, strength, and resistance to solvents, acids, and bases. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMP °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
KT-10	PTFE	PTFE	PVDF	PTFE	SS	36 (16.3)	200 (93)	Pg. 75	ANSI / DIN Flange
KE-10	Santoprene®	Santoprene®	PVDF	EPDM	SS	36 (16.3)	200 (93)	Pg. 75	ANSI / DIN Flange
KV-10	Viton®	Viton®	PVDF	Viton®	SS	36 (16.3)	200 (93)	Pg. 75	ANSI / DIN Flange

AVAILABLE OPTIONS - Each pump can be configured to suit a particular application. Please see the options section for detailed product information on the following available options.

AIR VALVE OPTIONS		SEE PAGE 67
CYCLE COUNT VALVE	SOLENOID ADAPTOR VALVE	
BALL VALVE OPTIONS		SEE PAGE 67
GEOLAST®	PTFE	
SANTOPRENE®	HEAVY NITRILE	
FDA NITRILE	STAINLESS STEEL	
HARDWARE OPTIONS		SEE PAGE 67
PTFE COATED HARDWARE		
O-RINGS		SEE PAGE 67
PTFE O-RINGS	NITRILE O-RINGS	
EPDM O-RINGS	VITON® O-RINGS	
PORTING OPTIONS		SEE PAGE 68
BSP THREADS	ALL PORTS OPEN	
DISCHARGE AIR INLET / EXHAUST		
SUCTION / AIR INLET / EXHAUST		
SUCTION / DISCHARGE LEFT		
SUCTION RIGHT & DISCHARGE LEFT		
SUCTION LEFT & DISCHARGE RIGHT		
VALVE SEAT OPTIONS		SEE PAGE 68
POLYPROPYLENE	NYLON	
PVDF	STAINLESS STEEL	

AVAILABLE ACCESSORIES - Please see the accessories section for detailed product information on the following available accessories.

AIR	SEE PAGE
FILTER / REGULATOR / GAUGE	60
SOLENOID VALVES	60
AIR FLOW CONTROL VALVES	60
NEEDLE VALVE	60
LIQUID	
COMPANION FLANGE KIT	61
SUCTION STRAINER	61
PUMP	
GROUNDING LUG	64



METALLIC

Our 1" metallic pumps, available in both stainless steel and aluminum, can be fitted with a wide variety of elastomers to suit your application.



NON-METALLIC

Wetted chambers available in polypropylene or PVDF. Diaphragms available in PTFE, Santoprene® or Viton®. Multiple liquid porting options available.



ALL-PUR FDA PUMPS

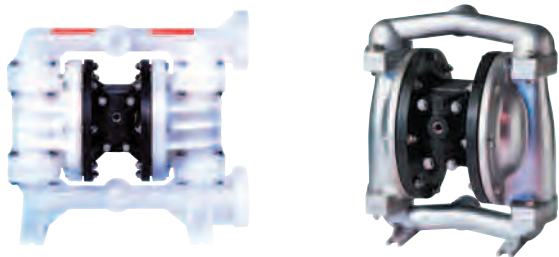
Electropolished and passivated 316 SS with FDA approved elastomers and tri-clamps for sanitary applications.



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1" (25mm) HEAVY DUTY BOLTED STYLE SOLIDS HANDLING PUMP



1" (25MM) HEAVY DUTY BOLTED STYLE SOLIDS HANDLING PUMP

Engineered for maximum fluid and chemical compatibility. Heavy duty, non-metallic air section ensures stall free and freeze free operation. Our patented "Max-Pass™" valve system allows operation under a variety of conditions, ranging from clean fluids to slurries, to large solids. Bolted design provides ease of maintenance and leak free operation. Available in a variety of materials and options.

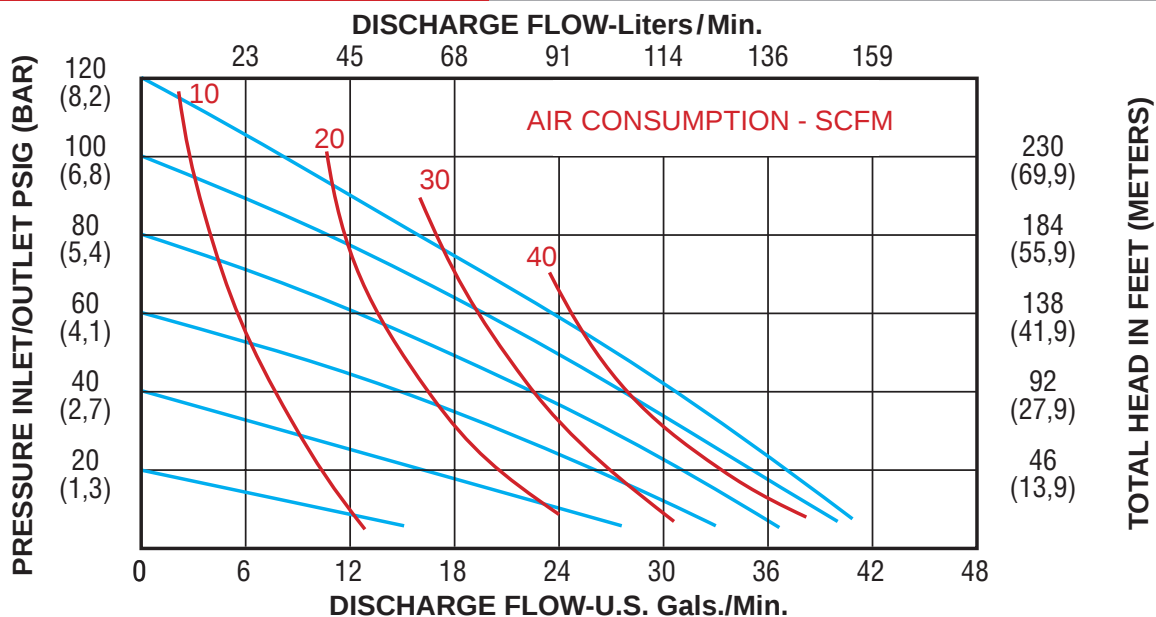
- Suitable for Clean Fluids, Slurries or up to 3/4" Solids
- All-Pur FDA Elastomers and Electropassivated Stainless Available
- Heavy Duty Air Valve
- Available in Metallic or Non-Metallic Wetted Components
- Muffler Included

SPECIFICATIONS

Dimension	
Physical Dimensions	See Drawing Page 75/76
Air Inlet	1/4"
Liquid Inlet	1" [25 mm]
Liquid Outlet	1" [25 mm]
Weight	See Product Tables
Performance	
Maximum Flow	41 gpm (155.8 lpm)
Maximum Air Pressure	120 psi (8.2 bar)
Maximum Solids	3/4" [19 mm]
For Metal Pumps Maximum Solids	1/2"
Max Suction Lift Dry	18 ft (5.5 m)
Max Suction Lift Wet	26 ft (7.9 m)
Max Suction Lift Dry with PTFE	15 ft (4.5 m)
Max Temperature	See Product Tables
Noise Level (with muffler)	80 dBA



PERFORMANCE CURVE (Based on water-flooded suction)



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 Website: www.qukointl.com



1" (25mm) HEAVY DUTY BOLTED STYLE SOLIDS HANDLING PUMP

1" (25mm) - ALUMINUM - General purpose pump, suitable for water, oils, most solvents, and most paints. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
AB-10-M4	Geolast®	Nitrile Max-Pass™	N/A	Nitrile	SS	28 (12.7)	180 (100)	Pg. 76	NPT
AE-10-M5	Santoprene®	EPDM Max-Pass™	N/A	EPDM	SS	28 (12.7)	212 (100)	Pg. 76	NPT
AV-10-M40	Viton®	Viton® Max-Pass™	N/A	VITON®	SS	28 (12.7)	212 (100)	Pg. 76	NPT

1" (25mm) - 316 SS - Corrosion resistant steel, suitable for nitric acid, chlorinated solvents, caustics and marine applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
SB-10-M4	Geolast®	Nitrile Max-Pass™	N/A	Nitrile	SS	56 (25.4)	180 (100)	Pg. 76	NPT
SE-10-M5	Santoprene®	EPDM Max-Pass™	N/A	EPDM	SS	56 (25.4)	212 (100)	Pg. 76	NPT
SV-10-M40	Viton®	Viton® Max-Pass™	N/A	Viton®	SS	56 (25.4)	212 (100)	Pg. 76	NPT

ALL-PÜR 1" (25mm) - ELECTROPOLISHED & PASSIVATED 316 SS - FDA elastomers and corrosion resistant steel. Suitable for food and sanitary applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMP °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
SB-10-M40-X44	FDA Hytrel®	FDA Viton® MAX-PASS™	N/A	FDA Nitrile	SS	56 (25.4)	180 (82)	Pg. 76	1 1/2" Tri-Clamp
SP-10-M40-X44	FDA PTFE	FDA Viton® MAX-PASS™	N/A	Viton®	SS	56 (25.4)	212 (100)	Pg. 76	1 1/2" Tri-Clamp
SE-10-M40-X44	FDA Santoprene®	FDA Viton® MAX-PASS™	N/A	FDA EPDM	SS	56 (25.4)	212 (100)	Pg. 76	1 1/2" Tri-Clamp

1" (25mm) - POLYPROPYLENE - A non-metallic material, suitable for water, caustics, soap solutions, mild acids and general purpose applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMP °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
PB-10-M4	Geolast®	Nitrile Max-Pass™	N/A	Nitrile	SS	26 (11.8)	150 (66)	Pg. 75	ANSI / DIN Flange
PE-10-M5	Santoprene®	EPDM Max-Pass™	N/A	EPDM	SS	26 (11.8)	150 (66)	Pg. 75	ANSI / DIN Flange
PV-10-M40	Viton®	Viton® Max-Pass™	N/A	Viton®	SS	26 (11.8)	150 (66)	Pg. 75	ANSI / DIN Flange

1" (25mm) - PVDF - Polyvinylidene fluoride suitable in applications requiring the highest purity, strength, and resistance to solvents, acids, and bases. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMP °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
KE-10-M5	Santoprene®	EPDM Max-Pass™	N/A	EPDM	SS	36 (16.3)	200 (93)	Pg. 75	ANSI / DIN Flange
KV-10-M40	Viton®	Viton® Max-Pass™	N/A	Viton®	SS	36 (16.3)	200 (93)	Pg. 75	ANSI / DIN Flange



Authorized Distributor
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 Email: sales@qukointl.com Website: www.qukointl.com



1" (25mm) HEAVY DUTY BOLTED STYLE SOLIDS HANDLING PUMP

AVAILABLE OPTIONS - Each pump can be configured to suit a particular application. Please see the options section for detailed product information on the following available options.

AIR VALVE OPTIONS		SEE PAGE 67
CYCLE COUNT VALVE	SOLENOID ADAPTOR VALVE	
BALL VALVE OPTIONS		SEE PAGE 67
GEOLAST®	PTFE	
SANTOPRENE®	HEAVY NITRILE	
FDA NITRILE	STAINLESS STEEL	
HARDWARE OPTIONS		SEE PAGE 67
PTFE COATED HARDWARE		
O-RINGS		SEE PAGE 67
PTFE O-RINGS	NITRILE O-RINGS	
EPDM O-RINGS	VITON® O-RINGS	
PORTING OPTIONS		SEE PAGE 68
BSP THREADS	ALL PORTS OPEN	
DISCHARGE AIR INLET / EXHAUST		
SUCTION / AIR INLET / EXHAUST		
SUCTION / DISCHARGE LEFT		
SUCTION RIGHT & DISCHARGE LEFT		
SUCTION LEFT & DISCHARGE RIGHT		

AVAILABLE ACCESSORIES - Please see the accessories section for detailed product information on the following available accessories.

AIR	SEE PAGE
FILTER / REGULATOR / GAUGE	60
SOLENOID VALVES	60
AIR FLOW CONTROL VALVES	60
NEEDLE VALVE	60
LIQUID	
COMPANION FLANGE KIT	61
SUCTION STRAINER	61
PUMP	
GROUNDING LUG	64

MAX-PASS SOLIDS HANDLING VALUE

- Increased suction lift
- Up to 3/4" solids
- Mounts in any position



METALLIC

Our 1" metallic pumps, available in both stainless steel and aluminum, can be fitted with a wide variety of elastomers to suit your application.



NON-METALLIC

Wetted chambers available in polypropylene or PVDF. Diaphragms available in PTFE, Santoprene® or Viton®. Multiple liquid porting options available.



ALL-PUR FDA PUMPS

Electropolished and passivated 316 SS with FDA approved elastomers and tri-clamps for sanitary applications.



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1" (25mm) HEAVY DUTY CLAMPED STYLE PUMP



1" (25mm) HEAVY DUTY CLAMPED STYLE PUMP

Reliable polypropylene air center section combined with non-metallic clamped casing materials ensure maximum chemical compatibility. Available in a variety of materials and options.

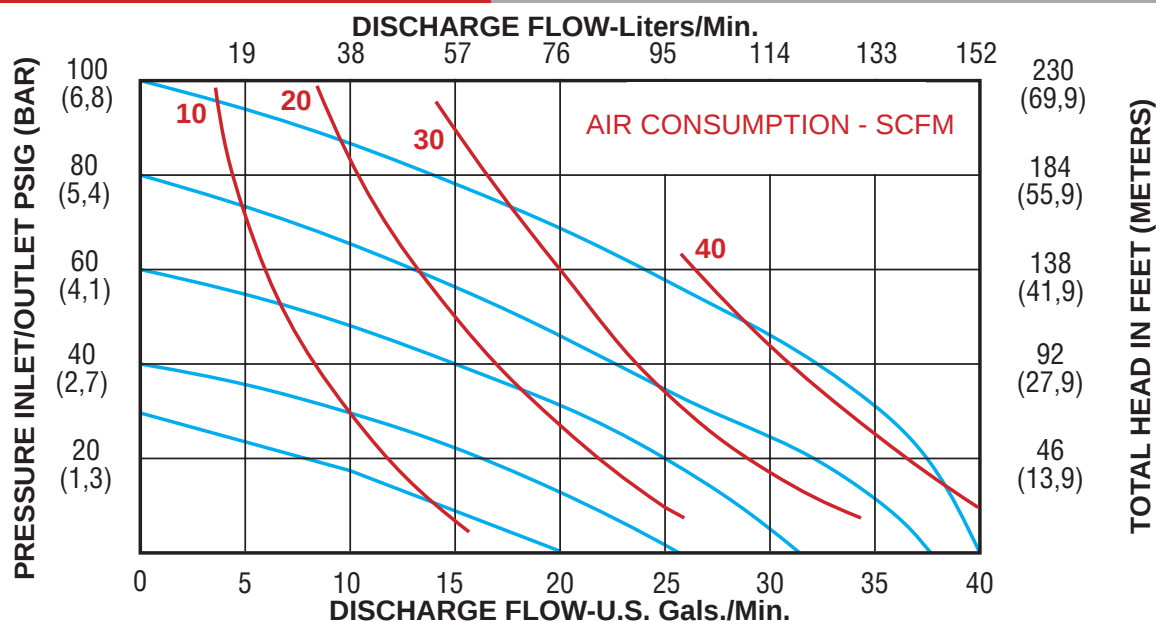
- Suitable for Clean Fluids, Slurries or up to 1/4" Solids
- Heavy Duty Air Valve
- Non-Metallic Wetted Components
- Muffler Included

SPECIFICATIONS

Dimension	
Physical Dimensions	See Drawing Page 76
Air Inlet	1/4"
Liquid Inlet	1" [25 mm]
Liquid Outlet	1" [25 mm]
Weight	See Product Tables
Performance	
Maximum Flow	40 gpm (152 lpm)
Maximum Air Pressure	100 psi (6.8 bar)
Maximum Solids	1/4" (6.4 mm)
Max Suction Lift Dry	15 ft (4.5 m)
Max Suction Lift Wet	26 ft (7.9 m)
Max Suction Lift Dry with PTFE	10 ft (3 m)
Max Temperature	See Product Tables
Noise Level (with muffler)	80 dBA



PERFORMANCE CURVE (Based on water-flooded suction)



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1" (25mm) - POLYPROPYLENE - A non-metallic material, suitable for water, caustics, soap solutions, mild acids and general purpose applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
NN-10	Geolast®	Nitrile	Polypropylene	Nitrile	SS & PS	26 (11.8)	150 (66)	Pg. 76	NPT
NC-10	Geolast®	Geolast®	Polypropylene	Nitrile	SS & PS	26 (11.8)	150 (66)	Pg. 76	NPT
BK-10	PTFE	PTFE	Polypropylene	PTFE	SS	26 (11.8)	150 (66)	Pg. 76	NPT
BK-10E	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	26 (11.8)	150 (66)	Pg. 76	NPT
BK-10V	VITON®	Viton®	Polypropylene	Viton®	SS	26 (11.8)	150 (66)	Pg. 76	NPT
NN-10-P15	Geolast®	Nitrile	Polypropylene	Nitrile	SS & PS	26 (11.8)	150 (66)	Pg. 76	BSP
NC-10-P15	Geolast®	Geolast®	Polypropylene	Nitrile	SS & PS	26 (11.8)	150 (66)	Pg. 76	BSP
BK-10-P15	PTFE	PTFE	Polypropylene	PTFE	SS	26 (11.8)	150 (66)	Pg. 76	BSP
BK-10E-P15	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	26 (11.8)	150 (66)	Pg. 76	BSP
BK-10V-P15	VITON®	Viton®	Polypropylene	Viton®	SS	26 (11.8)	150 (66)	Pg. 76	BSP

1" (25mm) - PVDF - Polyvinylidene fluoride suitable in applications requiring the highest purity, strength, and resistance to solvents, acids, and bases. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
KN-10	PTFE	PTFE	PVDF	PTFE	SS	27 (12.2)	200 (93)	Pg. 75	NPT
KN-10E	Santoprene®	Santoprene®	PVDF	EPDM	SS	27 (12.2)	200 (93)	Pg. 75	NPT
KN-10V	Viton®	Viton®	PVDF	Viton®	SS	27 (12.2)	200 (93)	Pg. 75	NPT
KN-10-P15	PTFE	PTFE	PVDF	PTFE	SS	27 (12.2)	200 (93)	Pg. 75	BSP
KN-10E-P15	Santoprene®	Santoprene®	PVDF	EPDM	SS	27 (12.2)	200 (93)	Pg. 75	BSP
KN-10V-P15	Viton®	Viton®	PVDF	Viton®	SS	27 (12.2)	200 (93)	Pg. 75	BSP

AVAILABLE OPTIONS - Each pump can be configured to suit a particular application. Please see the options section for detailed product information on the following available options.

AIR VALVE OPTIONS		SEE PAGE 67
CYCLE COUNT VALVE		
BALL VALVE OPTIONS		SEE PAGE 67
GEOLAST®	PTFE	
SANTOPRENE®	HEAVY NITRILE	
FDA NITRILE	STAINLESS STEEL	
HARDWARE OPTIONS		SEE PAGE 67
PTFE COATED HARDWARE		
O-RINGS		SEE PAGE 67
PTFE O-RINGS	NITRILE O-RINGS	
EPDM O-RINGS	VITON® O-RINGS	
PORTING OPTIONS		SEE PAGE 68
DUAL SUCTION / DISCHARGE	BSP THREADS	
DISCHARGE UP, AIR INLET		
SUCTION / DOWN, AIR INLET		
VALVE SEAT OPTIONS		SEE PAGE 68
POLYPROPYLENE	NYLON	
PVDF	STAINLESS STEEL	

AVAILABLE ACCESSORIES - Please see the accessories section for detailed product information on the following available accessories.

AIR	SEE PAGE
FILTER/REGULATOR/GAUGE	60
SOLENOID VALVES	60
AIR FLOW CONTROL VALVES	60
NEEDLE VALVE	60
LIQUID	
COMPANION FLANGE KIT	61
SUCTION STRAINER	61
PUMP	
GROUNDING LUG	64



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1" (25mm) HEAVY DUTY CLAMPED STYLE DRUM PUMP



1" (25 mm) HEAVY DUTY CLAMPED STYLE DRUM PUMP

Engineered for maximum fluid and chemical compatibility. Heavy duty, non-metallic air section ensures stall free and freeze free operation. Rugged valve system allows operation under a variety of conditions, ranging from clean fluids to slurries, to solids applications. Bolted design provides ease of maintenance and leak free operation. Available in a variety of materials and options.

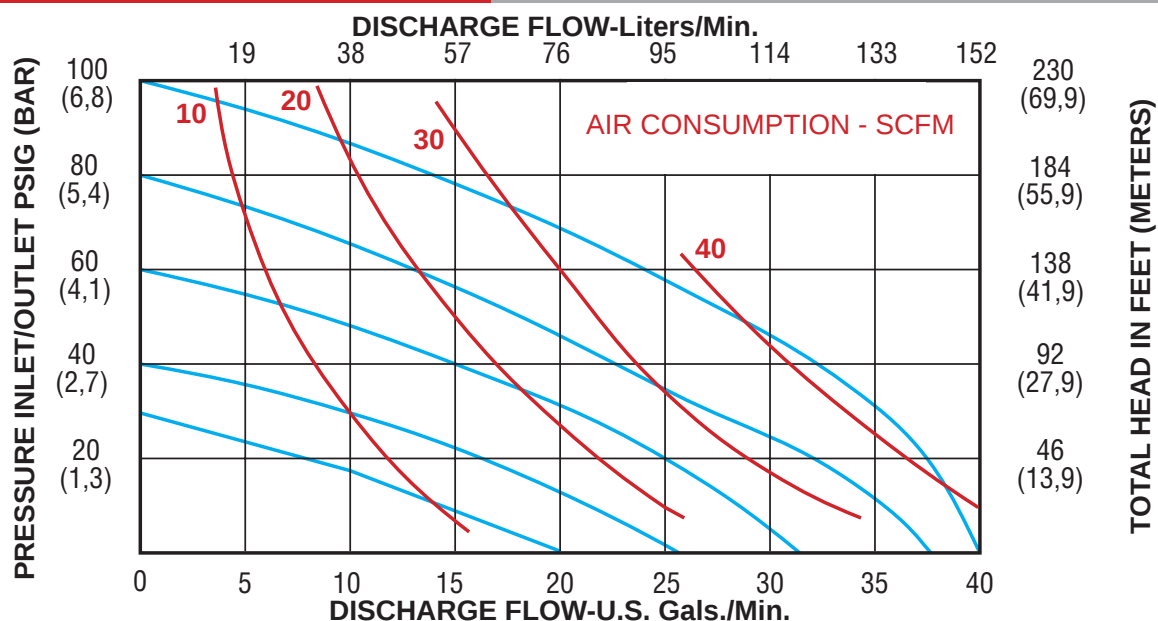
- Suitable for Clean Fluids, Slurries or up to 1/4" Solids
- Includes 40" Suction Tube and Bung Adaptor
- All-Pur FDA Elastomers and Electropassivated Stainless Available
- Heavy Duty Air Valve
- Non-Metallic Wetted Components
- Muffler Included

SPECIFICATIONS

Dimension	
Physical Dimensions	See Drawing Page 76
Air Inlet	1/4"
Liquid Inlet	1" [25 mm]
Liquid Outlet	1" [25 mm]
Weight	See Product Tables
Performance	
Maximum Flow	40 gpm (152 lpm)
Maximum Air Pressure	100 psi (6.8 bar)
Maximum Solids	1/8" (3.2 mm)
Max Suction Lift Dry	15 ft (4.5 m)
Max Suction Lift Wet	26 ft (7.9 m)
Max Suction Lift Dry with PTFE	10 ft (3 m)
Max Temperature	See Product Tables
Noise Level (with muffler)	80 dBA



PERFORMANCE CURVE (Based on water-flooded suction)



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 Website: www.qukointl.com



1" (25mm) - POLYPROPYLENE - A non-metallic material, suitable for water, caustics, soap solutions, mild acids and general purpose applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
NND-10	Geolast®	Nitrile	Polypropylene	Nitrile	SS	26 (11.8)	150 (66)	Pg. 76	NPT
NCD-10	Geolast®	Geolast®	Polypropylene	Nitrile	SS	26 (11.8)	150 (66)	Pg. 76	NPT
BKD-10	PTFE	PTFE	Polypropylene	PTFE	SS	26 (11.8)	150 (66)	Pg. 76	NPT
BKD-10E	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	26 (11.8)	150 (66)	Pg. 76	NPT
BKD-10V	Viton®	Viton®	Polypropylene	Viton®	SS	26 (11.8)	150 (66)	Pg. 76	NPT

1" (25mm) - PVDF - Polyvinylidene fluoride suitable in applications requiring the highest purity, strength, and resistance to solvents, acids, and bases. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
KND-10	PTFE	PTFE	PVDF	PTFE	SS	29 (13.2)	200 (93)	Pg. 75	NPT
KND-10E	Santoprene®	Santoprene®	PVDF	EPDM	SS	29 (13.2)	200 (93)	Pg. 75	NPT
KND-10V	Viton®	Viton®	PVDF	Viton®	SS	29 (13.2)	200 (93)	Pg. 75	NPT

AVAILABLE OPTIONS - Each pump can be configured to suit a particular application. Please see the options section for detailed product information on the following available options.

AIR VALVE OPTIONS		SEE PAGE 67
CYCLE COUNT VALVE	SOLENOID ADAPTOR VALVE	
BALL VALVE OPTIONS		SEE PAGE 67
GEOLAST®	PTFE	
SANTOPRENE®	HEAVY NITRILE	
FDA NITRILE	STAINLESS STEEL	
HARDWARE OPTIONS		SEE PAGE 67
PTFE COATED HARDWARE		
O-RINGS		SEE PAGE 67
PTFE O-RINGS	NITRILE O-RINGS	
EPDM O-RINGS	VITON® O-RINGS	
PORTING OPTIONS		SEE PAGE 68
BSP THREADS	ALL PORTS OPEN	
DISCHARGE AIR INLET / EXHAUST		
SUCTION / AIR INLET / EXHAUST		
SUCTION / DISCHARGE LEFT		
SUCTION RIGHT & DISCHARGE LEFT		
SUCTION LEFT & DISCHARGE RIGHT		
VALVE SEAT OPTIONS		SEE PAGE 68
POLYPROPYLENE	NYLON	
PVDF	STAINLESS STEEL	

AVAILABLE ACCESSORIES - Please see the accessories section for detailed product information on the following available accessories.

AIR	SEE PAGE
FILTER / REGULATOR / GAUGE	60
SOLENOID VALVES	60
AIR FLOW CONTROL VALVES	60
NEEDLE VALVE	60
LIQUID	
COMPANION FLANGE KIT	61
SUCTION STRAINER	61
PUMP	
GROUNDING LUG	64



2" (51mm) HEAVY DUTY BOLTED STYLE PUMP



2" (51mm) HEAVY DUTY BOLTED STYLE PUMP

Engineered for maximum fluid and chemical compatibility. Heavy duty, non-metallic air section ensures stall free and freeze free operation. Rugged valve system allows operation under a variety of conditions, ranging from clean fluids to slurries, to solids applications. Bolted design provides ease of maintenance and leak free operation. Available in a variety of materials and options.

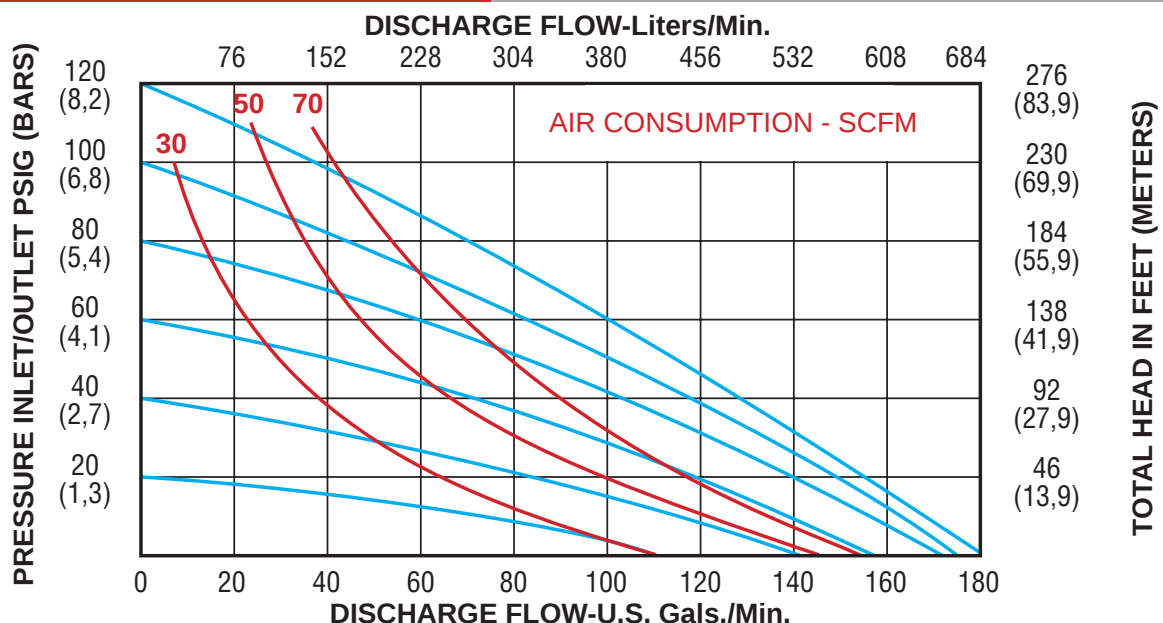
- Suitable for Clean Fluids, Slurries or up to 1/4" Solids
- All-Pur FDA Elastomers and Electropassivated Stainless Available
- Heavy Duty Air Valve
- Available in Metallic and non-Metallic Wetted Components
- Muffler Included

SPECIFICATIONS

Dimension	
Physical Dimensions	See Drawing Page 78
Air Inlet	3/4"
Liquid Inlet	2" (51 mm)
Liquid Outlet	2" (51 mm)
Weight	See Product Tables
Performance	
Maximum Flow	180 gpm (681 lpm)
Maximum Air Pressure	120 psi (8.2 bar)
Maximum Solids	1/4" (6.4 mm)
Max Suction Lift Dry	13 ft (3.9 m)
Max Suction Lift Wet	26 ft (7.9 m)
Max Suction Lift Dry with PTFE	10 ft (3 m)
Max Temperature	See Product Tables
Noise Level (with muffler)	78 dBA



PERFORMANCE CURVE (Based on water-flooded suction)



Authorized Distributor
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2" (51mm) - ALUMINUM - General purpose pump, suitable for water, oils, most solvents, and most paints. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMP °F (°C)	DIMENSIONAL DIAGRAM	CONNECTOR TYPE
AN-20	Geolast®	Nitrile	Polypropylene	Nitrile	SS	74 (33.7)	180 (82)	Pg. 78	NPT
AB-20	Geolast®	Geolast®	Polypropylene	Nitrile	SS	74 (33.7)	180 (82)	Pg. 78	NPT
AB-20-B2	Geolast®	PTFE	Polypropylene	Nitrile	SS	74 (33.7)	180 (82)	Pg. 78	NPT
AT-20	PTFE	PTFE	Nylon	PTFE	SS	74 (33.7)	212 (100)	Pg. 78	NPT
AE-20	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	74 (33.7)	212 (100)	Pg. 78	NPT
AN-20-P30	Geolast®	Nitrile	Polypropylene	Nitrile	SS	74 (33.7)	180 (82)	Pg. 78	ANSI / DIN Flange
AB-20-P30	Geolast®	Geolast®	Polypropylene	Nitrile	SS	74 (33.7)	180 (82)	Pg. 78	ANSI / DIN Flange
AT-20-P30	PTFE	PTFE	Nylon	PTFE	SS	74 (33.7)	212 (100)	Pg. 78	ANSI / DIN Flange
AE-20-P30	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	74 (33.7)	212 (100)	Pg. 78	ANSI / DIN Flange
AN-20-P15	Geolast®	Nitrile	Polypropylene	Nitrile	SS	74 (33.7)	180 (82)	Pg. 78	BSP
AB-20-P15	Geolast®	Geolast®	Polypropylene	Nitrile	SS	74 (33.7)	180 (82)	Pg. 78	BSP
AB-20-B2-P15	Geolast®	PTFE	Polypropylene	Nitrile	SS	74 (33.7)	180 (82)	Pg. 78	BSP
AT-20-P15	PTFE	PTFE	Nylon	PTFE	SS	74 (33.7)	212 (100)	Pg. 78	BSP
AE-20-P15	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	74 (33.7)	212 (100)	Pg. 78	BSP
AV-20-P30	Viton®	Viton®	Nylon	Viton®	SS	74 (33.7)	212 (100)	Pg. 78	ANSI / DIN Flange
AV-20-P15	Viton®	Viton®	Nylon	Viton®	SS	74 (33.7)	212 (100)	Pg. 78	ANSI / DIN Flange
AV-20	Viton®	Viton®	Nylon	Viton®	SS	74 (33.7)	212 (100)	Pg. 78	NPT

2" (51mm) - 316 SS - Corrosion resistant steel, suitable for nitric acid, chlorinated solvents, caustics and marine applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMP °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
SN-20	Geolast®	Nitrile	SS	Nitrile	SS	146 (66.2)	180 (82)	Pg. 78	NPT
SB-20	Geolast®	Geolast®	SS	Nitrile	SS	146 (66.2)	180 (82)	Pg. 78	NPT
SP-20	PTFE	PTFE	SS	PTFE	SS	146 (66.2)	212 (100)	Pg. 78	NPT
SE-20	Santoprene®	Santoprene®	SS	EPDM	SS	146 (66.2)	212 (100)	Pg. 78	NPT
SN-20-P30	Geolast®	Nitrile	SS	Nitrile	SS	146 (66.2)	180 (82)	Pg. 78	ANSI / DIN Flange
SB-20-P30	Geolast®	Geolast®	SS	Nitrile	SS	146 (66.2)	180 (82)	Pg. 78	ANSI / DIN Flange
SP-20-P30	PTFE	PTFE	SS	PTFE	SS	146 (66.2)	212 (100)	Pg. 78	ANSI / DIN Flange
SE-20-P30	Santoprene®	Santoprene®	SS	EPDM	SS	146 (66.2)	212 (100)	Pg. 78	ANSI / DIN Flange
SN-20-P15	Geolast®	Nitrile	SS	Nitrile	SS	146 (66.2)	180 (82)	Pg. 78	BSP
SB-20-P15	Geolast®	Geolast®	SS	Nitrile	SS	146 (66.2)	180 (82)	Pg. 78	BSP
SP-20-P15	PTFE	PTFE	SS	PTFE	SS	146 (66.2)	212 (100)	Pg. 78	BSP
SE-20-P15	Santoprene®	Santoprene®	SS	EPDM	SS	146 (66.2)	212 (100)	Pg. 78	BSP
SV-20-P30	Viton®	Viton®	SS	Viton®	SS	146 (66.2)	212 (100)	Pg. 78	ANSI / DIN Flange
SV-20-P15	Viton®	Viton®	SS	Viton®	SS	146 (66.2)	212 (100)	Pg. 78	ANSI / DIN Flange
SV-20	Viton®	Viton®	SS	Viton®	SS	146 (66.2)	212 (100)	Pg. 78	NPT

ALL-PÜR 2" (51mm) - ELECTROPOLISHED & PASSIVATED 316 SS- FDA elastomers and corrosion resistant steel. Suitable for food and sanitary applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMP °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
SB-20-X44	FDA Hytrel®	FDA Nitrile	SS	FDA Nitrile	SS	146 (66.2)	180 (82)	Pg. 78	2 1/2" Tri-Clamp
SP-20-X44	FDA PTFE	FDA PTFE	SS	FDA PTFE	SS	146 (66.2)	212 (100)	Pg. 78	2 1/2" Tri-Clamp
SE-20-X44	FDA Santoprene®	FDA Santoprene®	SS	FDA EPDM	SS	146 (66.2)	212 (100)	Pg. 78	2 1/2" Tri-Clamp



Authorized Distributor
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2" (51mm) HEAVY DUTY BOLTED STYLE PUMP

2" (51mm) - POLYPROPYLENE - A non-metallic material, suitable for water, caustics, soap solutions, mild acids and general purpose applications. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMP °F (°C)	DIMENSIONAL DIAGRAM	CONNECTOR TYPE
PB-20	Geolast®	Geolast®	Polypropylene	Nitrile	SS	61 (27.7)	150 (66)	Pg. 78	ANSI / DIN Flange
PT-20	PTFE	PTFE	Polypropylene	PTFE	SS	61 (27.7)	150 (66)	Pg. 78	ANSI / DIN Flange
PE-20	Santoprene®	Santoprene®	Polypropylene	EPDM	SS	61 (27.7)	150 (66)	Pg. 78	ANSI / DIN Flange
PV-20	Viton®	Viton®	Polypropylene	Viton®	SS	61 (27.7)	150 (66)	Pg. 78	ANSI / DIN Flange

2" (51mm) - PVDF - Polyvinylidene fluoride suitable in applications requiring the highest purity, strength, and resistance to solvents, acids, and bases. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMP °F (°C)	DIMENSIONAL DIAGRAM	CONNECTOR TYPE
KT-20	PTFE	PTFE	PVDF	PTFE	SS	82 (37.2)	200 (93)	Pg. 78	ANSI / DIN Flange
KE-20	Santoprene®	Santoprene®	PVDF	EPDM	SS	82 (37.2)	200 (93)	Pg. 78	ANSI / DIN Flange
KV-20	Viton®	Viton®	PVDF	Viton®	SS	82 (37.2)	200 (93)	Pg. 78	ANSI / DIN Flange

AVAILABLE OPTIONS - Each pump can be configured to suit a particular application. Please see the options section for detailed product information on the following available options.

AIR VALVE OPTIONS	SEE PAGE 67
CYCLE COUNT VALVE	
BALL VALVE OPTIONS	SEE PAGE 67
GEOLAST®	PTFE
SANTOPRENE®	HEAVY NITRILE
FDA NITRILE	STAINLESS STEEL
WETTED CHAMBER FINISH OPTIONS	SEE PAGE 67
HARD COAT ANODIZING	
PASSIVATED & ELECTROPOLISHED	
HARDWARE OPTIONS	SEE PAGE 67
PTFE COATED HARDWARE	HANDLES
O-RINGS	SEE PAGE 67
PTFE O-RINGS	NITRILE O-RINGS
EPDM O-RINGS	VITON® O-RINGS
PORTING OPTIONS	SEE PAGE 68
DISCHARGE / UP, AIR INLET	
SUCTION / AIR EXHAUST	
VALVE SEAT OPTIONS	SEE PAGE 68
POLYPROPYLENE	NYLON
PVDF	STAINLESS STEEL
MISC. AND SPECIAL OPTIONS	SEE PAGE 68
TRI-CLAMP FITTING/PASSIVATED/ELECTROPOLISHED PLUS FDA ELASTOMERS	
HIGH SUCTION LEFT, POLYPROPYLENE ONLY	

AVAILABLE ACCESSORIES - Please see the accessories section for detailed product information on the following available accessories.

LIQUID	SEE PAGE
COMPANION FLANGE KIT	61
PUMP	
BASES	63
GROUNDING LUG	64



METALLIC

Our 2" metallic pumps, available in both stainless steel and aluminum, can be fitted with a wide variety of elastomers to suit your application.



NON-METALLIC

Wetted chambers available in polypropylene or PVDF. Diaphragms available in PTFE or Santoprene®. Modular liquid manifolds for plumbing flexibility.



ALL-PUR FDA PUMPS

Electropolished and passivated 316 SS with FDA approved elastomers and tri-clamps for sanitary applications.



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3" (76mm) HEAVY DUTY BOLTED STYLE PUMP



3" (76mm) HEAVY DUTY BOLTED STYLE PUMP

Engineered for maximum fluid and chemical compatibility. Heavy duty, stall free, non-metallic air section ensures stall free and freeze free operation. Rugged valve system allows operation under a variety of conditions, ranging from clean fluids to slurries, to solids applications. Bolted design provides ease of maintenance and leak free operation.

- Suitable for Clean Fluids, Slurries or up to 7/16" Solids
- Heavy Duty Air Valve
- Aluminum Chamber
- Muffler Included

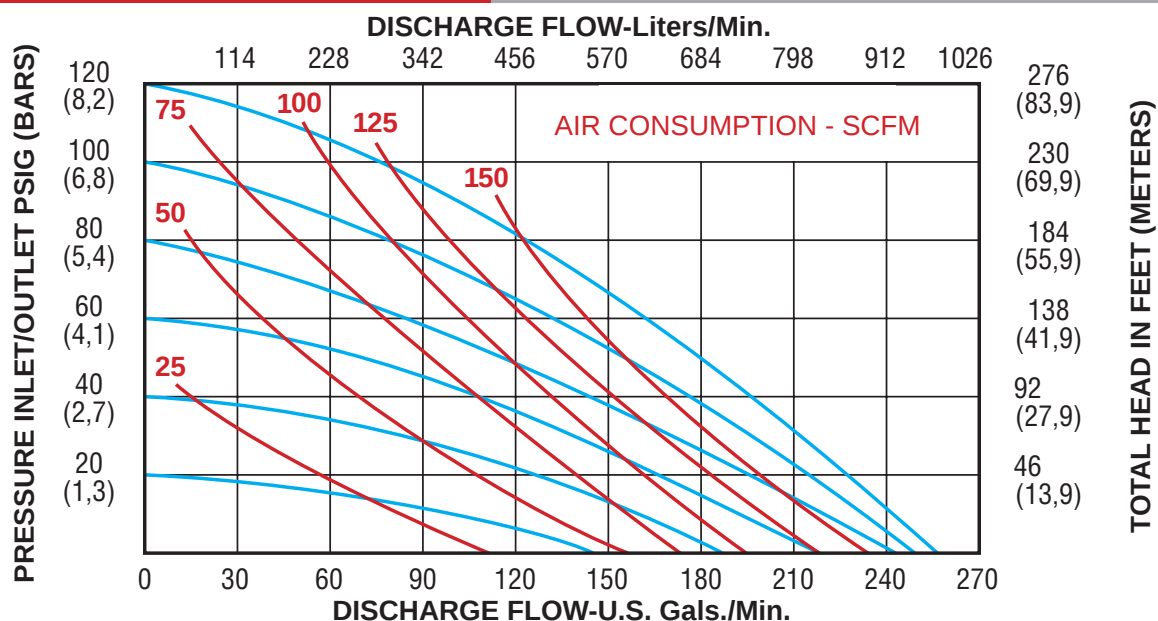
*Carrying handles available (sold separately)

SPECIFICATIONS

Dimension	
Physical Dimensions	See Drawing Page 79
Air Inlet	3/4"
Liquid Inlet	3" (76 mm)
Liquid Outlet	3" (76 mm)
Weight	see product tables
Performance	
Maximum Flow	255 gpm (681 lpm)
Maximum Air Pressure	120 psi (8.2 bar)
Maximum Solids	7/16" (11.1 mm)
Max Suction Lift Dry	15 ft (4.5 m)
Max Suction Lift Wet	26 ft (7.9 m)
Max Suction Lift Dry with PTFE	10 ft (3 m)
Max Temperature	See Product Tables
Noise Level (with muffler)	86 dBA



PERFORMANCE CURVE (Based on water-flooded suction)



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3" (76mm) - ALUMINUM - General purpose pump, suitable for water, oils, most solvents, and most paints. Please consult chemical compatibility tables or www.all-flo.com for your particular application.

PART NUMBER	DIAPHRAGM MATERIAL	VALVE/BALL MATERIAL	VALVE SEAT MATERIAL	O-RING MATERIAL	FASTENER MATERIAL	WEIGHT LBS (KG)	MAX TEMPERATURE °F (°C)	DIMENSIONAL DIAGRAM	CONNECT TYPE
AL-30T	PTFE	PTFE	Nylon	PTFE	SS & PS	150 (68)	212 (100)	Pg. 79	NPT
AL-30E	Santoprene®	Santoprene®	EPDM	N/A	SS & PS	150 (68)	212 (100)	Pg. 79	NPT
AN-30	Nitrile	Nitrile	Nitrile	N/A	SS & PS	150 (68)	150 (66)	Pg. 79	NPT
AL-30	Urethane	Geolast®	Nitrile	N/A	SS & PS	150 (68)	150 (66)	Pg. 79	NPT
AL-30V	Viton®	Viton®	Viton®	N/A	SS & PS	150 (68)	212 (100)	Pg. 79	NPT
AL-30V-P15	Viton®	Viton®	Viton®	N/A	SS & PS	150 (68)	212 (100)	Pg. 79	BSP
AL-30T-P15	PTFE	PTFE	Nylon	PTFE	SS & PS	150 (68)	212 (100)	Pg. 79	BSP
AL-30E-P15	Santoprene®	Santoprene®	EPDM	N/A	SS & PS	150 (68)	212 (100)	Pg. 79	BSP
AN-30-P15	Nitrile	Nitrile	Nitrile	N/A	SS & PS	150 (68)	150 (66)	Pg. 79	BSP
AL-30-P15	Urethane	Geolast®	Nitrile	N/A	SS & PS	150 (68)	150 (66)	Pg. 79	BSP

AVAILABLE OPTIONS - Each pump can be configured to suit a particular application. Please see the options section for detailed product information on the following available options.

AIR VALVE OPTIONS	SEE PAGE
CYCLE COUNT VALVE	67
BALL VALVE OPTIONS	
PTFE	67
GEOLAST®	67
SANTOPRENE®	67
NITRILE	67
EPDM	67
HEAVY NITRILE	67
HEAVY SANTOPRENE®	67
WETTED CHAMBER FINISH OPTIONS	
HARD COAT ANODIZING	67
HARDWARE OPTIONS	
PTFE COATED HARDWARE	67
HANDLES	67
O-RINGS	
PTFE O-RINGS	67
NITRILE O-RINGS	67
EPDM O-RINGS	67
VITON® O-RINGS	67
PORTING OPTIONS	
BSP THREADS	68
DISCHARGE / AIR EXHAUST	68
SUCTION / AIR EXHAUST	68

AVAILABLE ACCESSORIES - Please see the accessories section for detailed product information on the following available accessories.

AIR	SEE PAGE
FILTER/REGULATOR/GAUGE	60
SOLENOID VALVES	60
AIR FLOW CONTROL VALVES	60
NEEDLE VALVE	60
PUMP	
BASE	63
STRAINER BASE	63



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