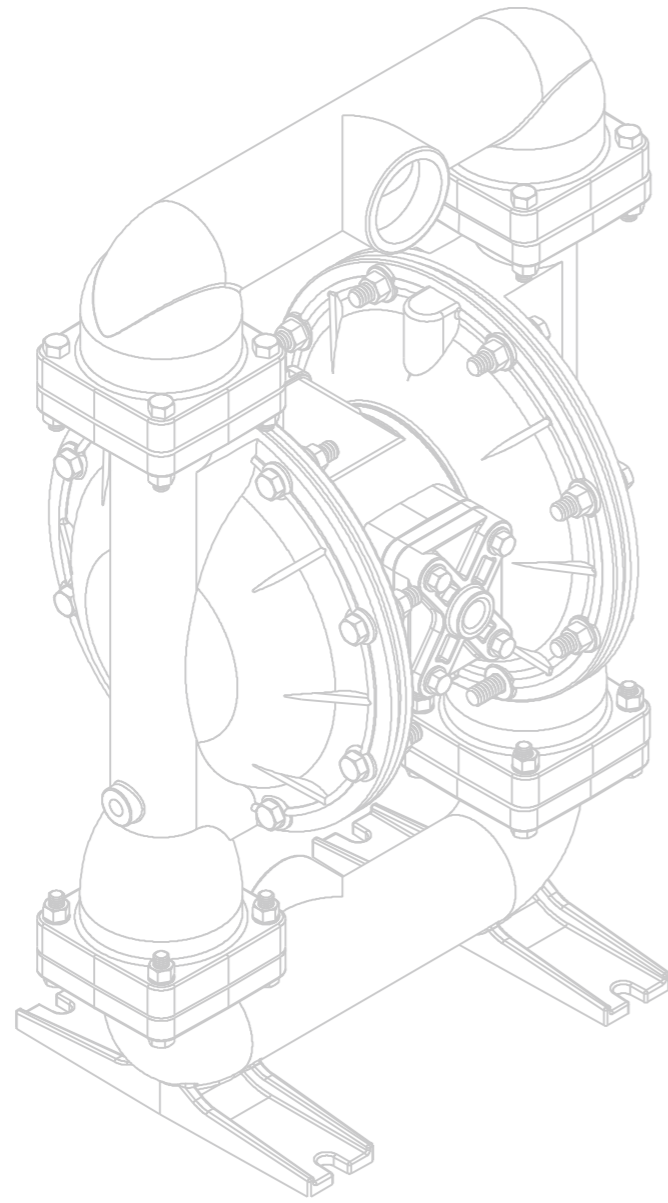


ketavsc®



*keta valve solution corporate ,Wuxing industrial zone ,oubei town, yongjia county , Wenzhou City, Zhejiang Province, China
www.ketavalve.com ,sales@ketavalve.com ,hans@ketavalve.com ,WhatsApp :+8619906653951*

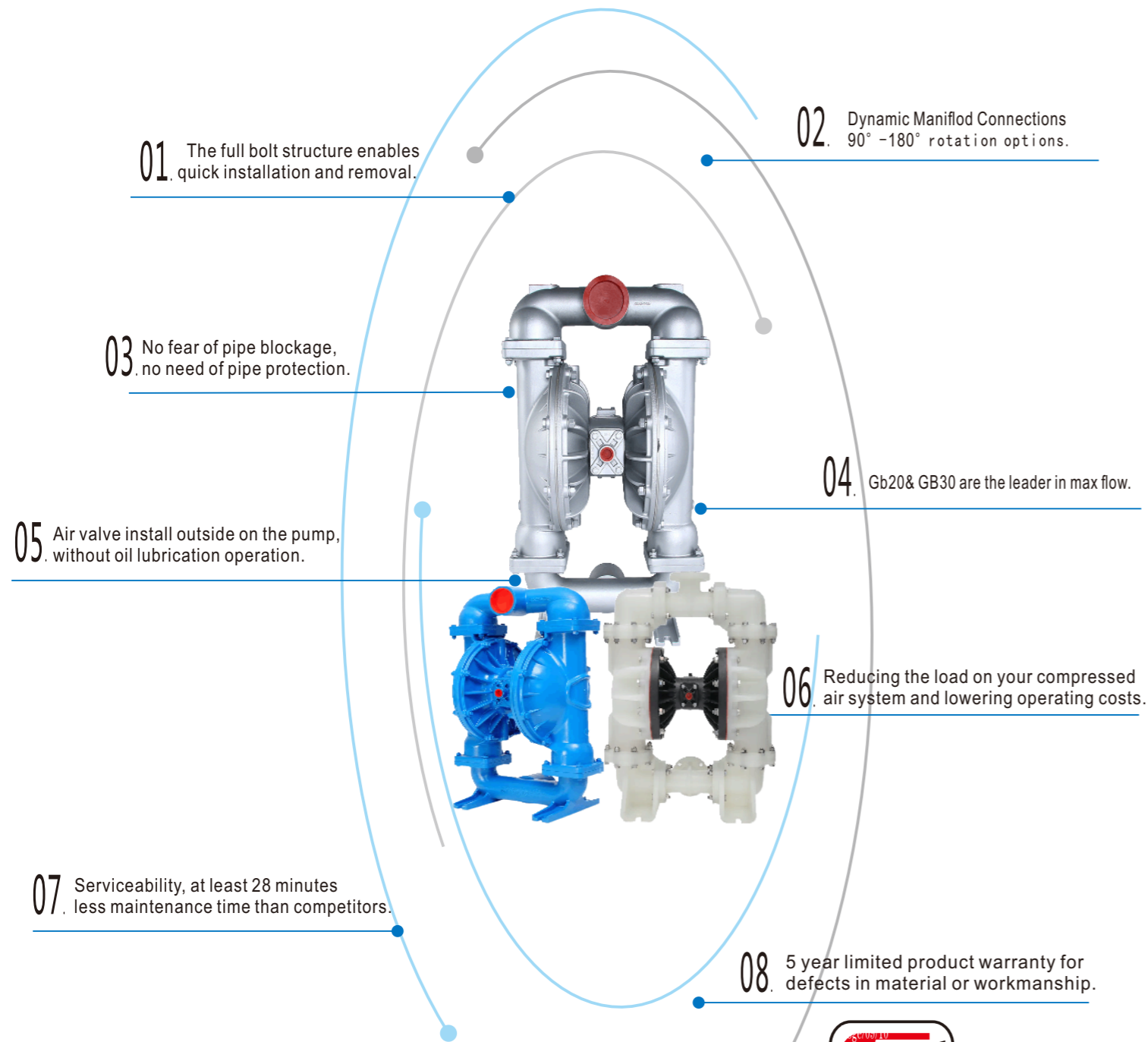
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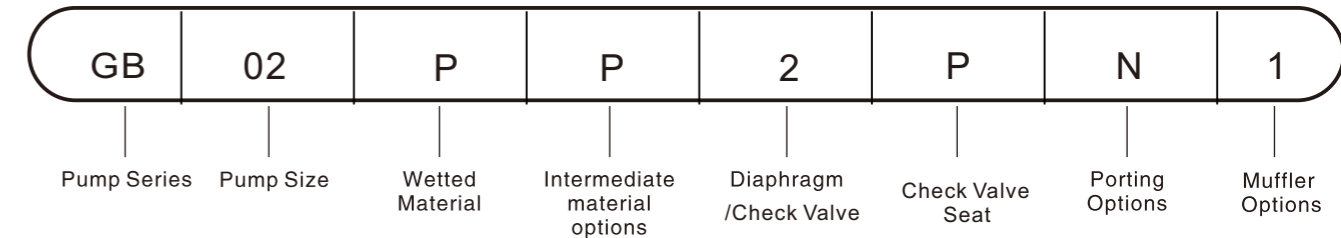


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yongjia county , Wenzhou City, Zhejiang Province, China
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Advantages of GB Series Pump



Explanation of Pump Nomenclature



Pump Series

GB B Series

Pump Size

02 1/4"
 05 1/2"
 07 3/4"
 10 1"
 1F 1"
 15 1 1/2"
 20 2"
 30 3"

Wetted Material

A Aluminum
 I Cast Iron
 S Stainless Steel
 H H Alloy C
 P Polypropylene
 V PVDF

Intermediate Material

A Aluminum
 I Cast Iron
 S Stainless Steel
 P Polypropylene

Diaphragm/Check Valve Material

1 Santoprene/Santoprene
 2 PTFE-Santoprene/ Santoprene
 B Nitrile/Nitrile
 C FKM/PTFE
 I EPDM/EPDM
 G PTFE-Neoprene/PTFE
 H Hytrel/Hytrel
 N Neoprene/ Neoprene

Check Valve Seat Material

A Aluminum
 B Nitrile
 E EPDM
 K PVDF
 N Neoprene
 P PP
 S Santoprene
 T PTFE
 W UHMW
 V FKM

Porting Options

N NPT Threads
 B BSP (Tapered) Threads
 R Raised Face 150# Treaded ANSI Flange

Muffler Options

0 None
 1 Plastic Muffler
 2 Metal Muffler

Nameplate



AODD Pump Selection

Configuration Feature		Metallic Pump	Non-Metallic Pump	
Specifications	Suction/Discharge Port Size	½" through 3"	½" through 3"	
	Max Flow Rate Per Minute	285 Gal. (1079 L)	280 Gal. (1060 L)	
	Max Discharge Head	289' (88m) of water @125psi	231' (70m) of water @100psi	
	Max Displacement Per Stroke	0.94 Gal. (3.56 L)	0.9 Gal. (3.41 L)	
	Max Dry Prime	20' (6m)	20' (6m)	
	Max Solids Handling	.38" (10mm)	.71" (18mm)	
Fluid Characteristics	Water	+	+	
	Suspended Solids	+	✓	
	Non-Suspended Solids	!	✗	
	Line Size Solids	✗	✗	
	Sludge /Slurry	✓	!	
	High Viscosity (Flowable Fluids)	✓	✓	
	Erosion/Abrasive Fluids	High	✓	!
		Moderate	✓	!
Low		+	✓	
Corrosion	✓	+		
Installation	Permanent	✓	✓	
	Portable	+	+	
	Containment/Prevention	!	!	
	Flooded Suction	✓	✓	
	Suction Lift	✓	✓	
	Submerged	✓	!	
Duty	Intermittent/On-Demand	+	✓	
	Continuous	✓	+	

+ Best Type
 ✓ Suitable
 ! Limitations
 ✗ Not Recommended



Diaphragm Selection

Choose the most suitable diaphragm for your application and get the longest service life out of your pump.



Material	Material Profile	Operating Temp		Level 1~5 (Level 5 is the best)		
		Max	Min	Chemical Resistance	Wear Resistance	Flexibility
Nitrile	General purpose, oil-resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	190° F 88° C	-10° F -23° C	1	2	3
EPDM	Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair in ketones and alcohols.	280° F 138° C	-40° F -40° C	4	4	4
FKM	(Fluorocarbon) Shows good resistance to a wide range of oils and solvents; especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or hot aqueous solutions (over 70°F(21°C)) will attack FKM.	350° F 177° C	-40° F -40° C	4	2	1
Hytrel	Good on acids, bases, amines and glycols at room temperatures only.	220° F 104° C	-20° F -29° C	4	5	3
Neoprene	All purpose. Resistance to vegetable oils. Generally not affected by moderate chemicals, fats, greases and many oils and solvents. Generally attacked by strong oxidizing acids, ketones, esters and nitro hydrocarbons and chlorinated aromatic hydrocarbons.	200° F 93° C	-10° F -23° C	1	3	3
Nylon	6/6 High strength and toughness over a wide temperature range. Moderate to good resistance to fuels, oils and chemicals.	180° F 82° C	32° F 0° C	5	2	--
Santoprene	Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	275° F 135° C	-40° F -40° C	4	5	5
Polyurethane	Shows good resistance to abrasives. Has poor resistance to most solvents and oils.	150° F 66° C	32° F 0° C	1	3	4
PTFE	(PFA/TFE) Chemically inert, virtually impervious. Very few chemicals are known to chemically react with PTFE; molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at (Polyvinylidene Fluoride) A durable fluoroplastic with excellent chemical resistance. Excellent for UV applications. High tensile strength and impact	220° F 104° C	-35° F -37° C	5	2	--
PVDF		250° F 121° C	0° F -18° C	5	2	--

Metallic Pump Performance & Specification

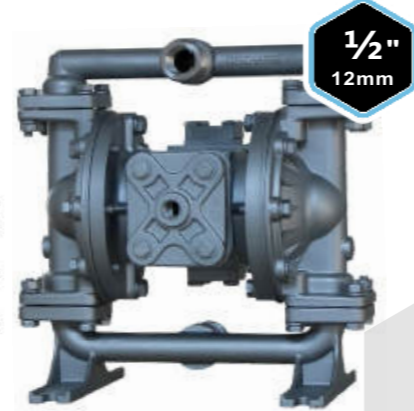
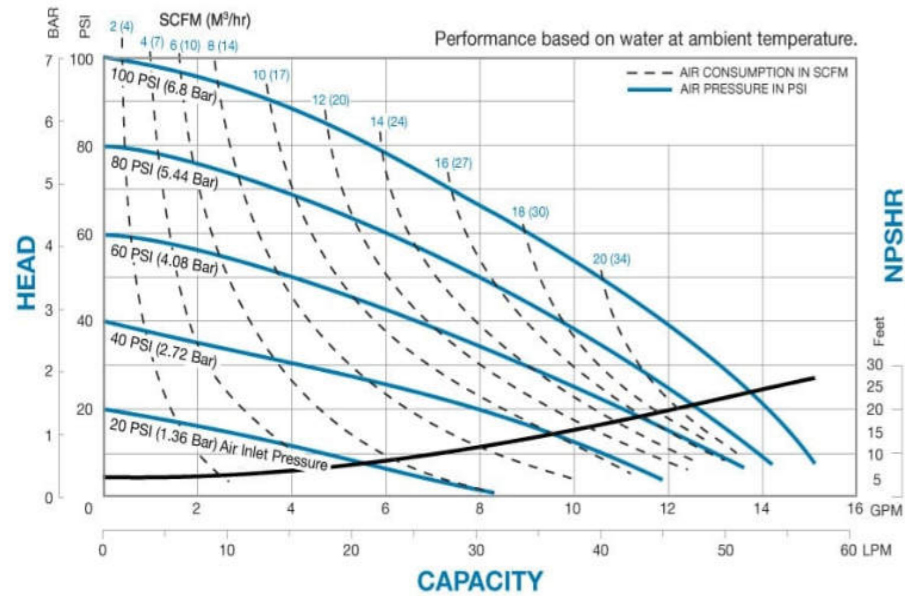
1/2" 12mm GB05 PERFORMANCE

Max Flow
15 GPM (57LPM)

Porting
NPT/BSP
ANSI

Air End
Aluminum

Wet End
Aluminum
Stainless Steel



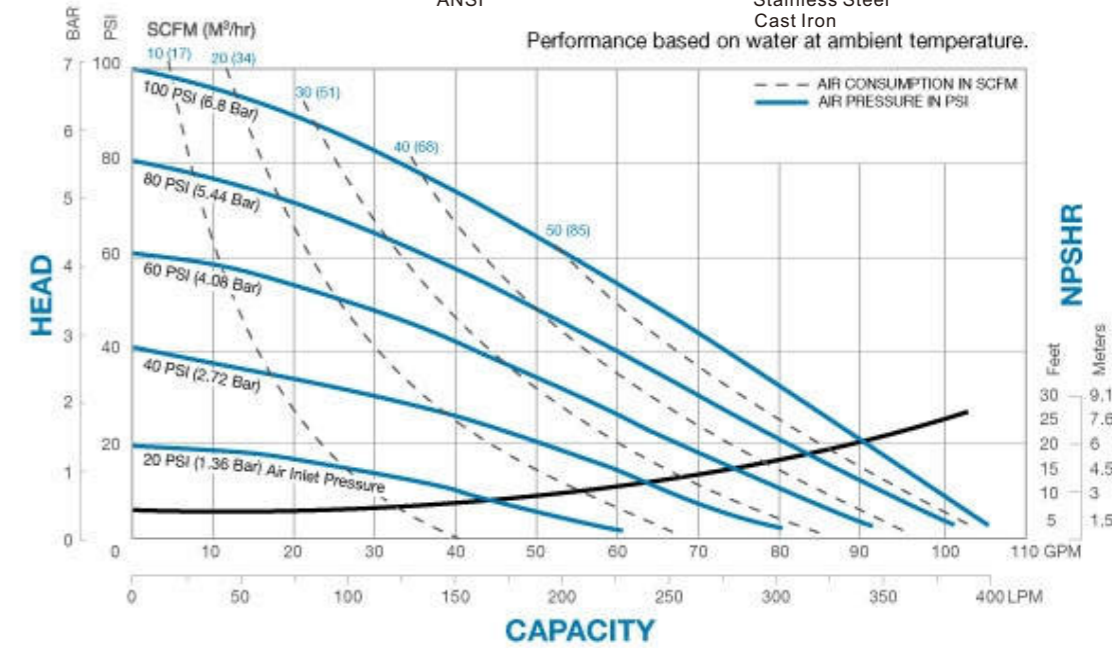
1 1/2" 38mm GB15 PERFORMANCE

Max Flow
106 GPM (401LPM)

Porting
NPT/BSP
ANSI

Air End
Aluminum

Wet End
Aluminum
Stainless Steel
Cast Iron



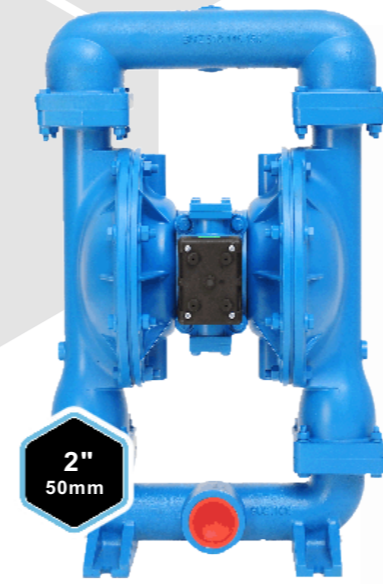
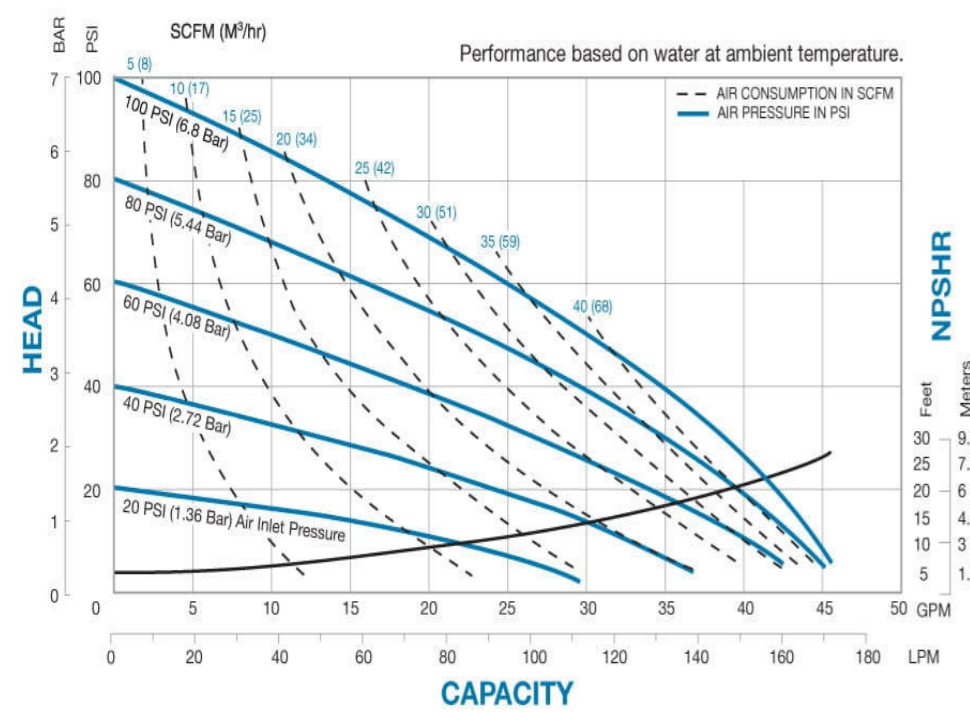
1" 25mm GB1F PERFORMANCE

Max Flow
45 GPM (170LPM)

Porting
NPT/BSP
ANSI

Air End
Aluminum

Wet End
Aluminum
Stainless Steel
Cast Iron



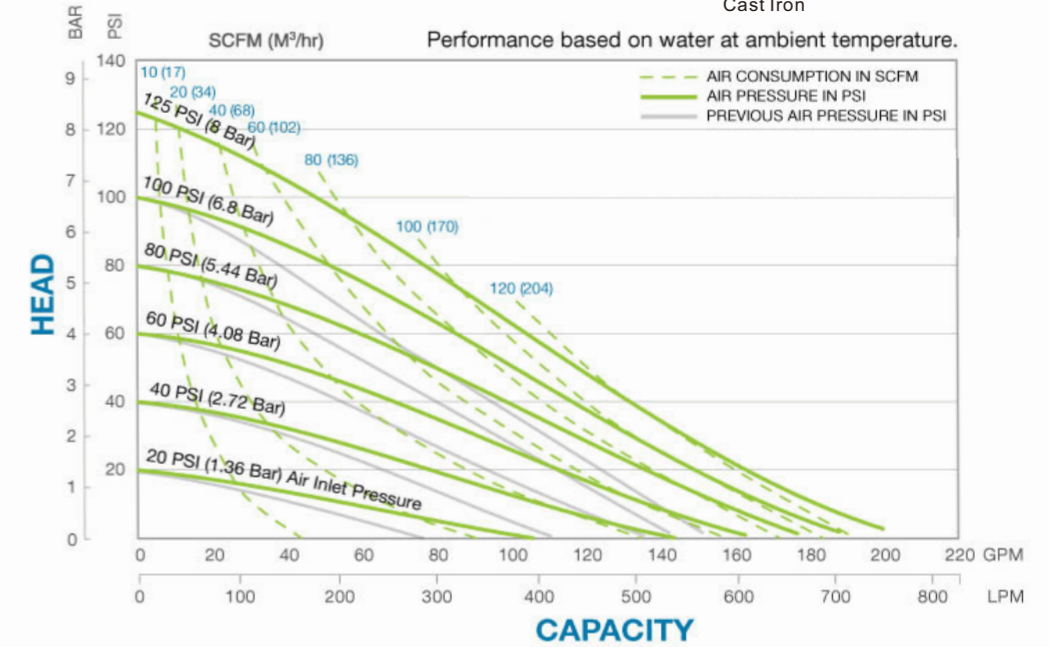
2" 50mm GB20 PERFORMANCE

Max Flow
198 GPM (750LPM)

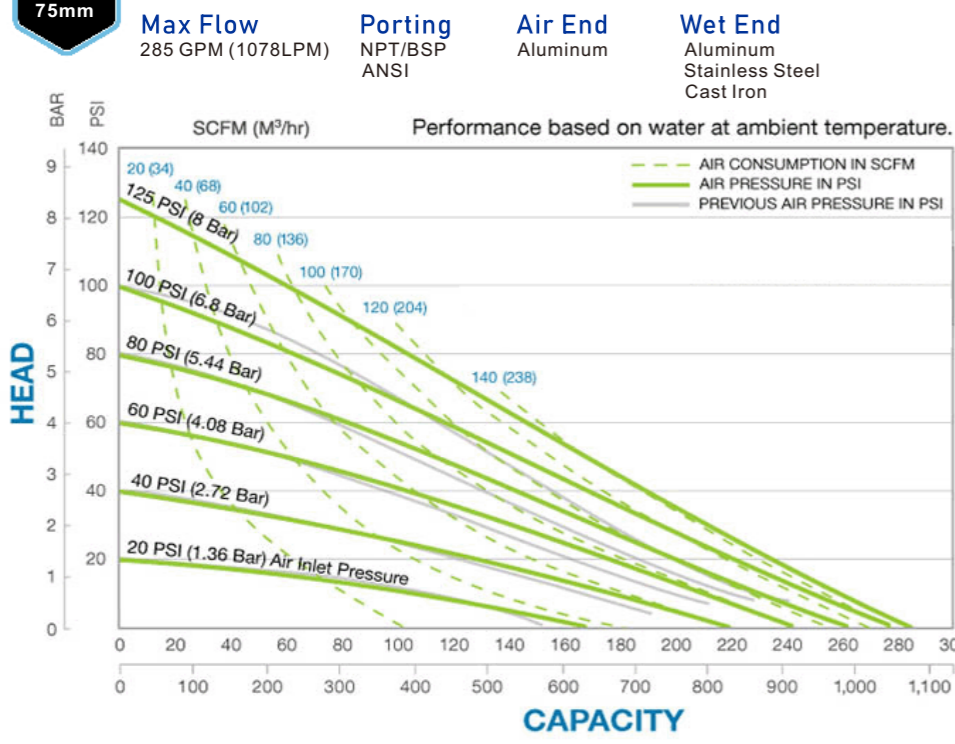
Porting
NPT/BSP
ANSI

Air End
Aluminum

Wet End
Aluminum
Stainless Steel
Cast Iron

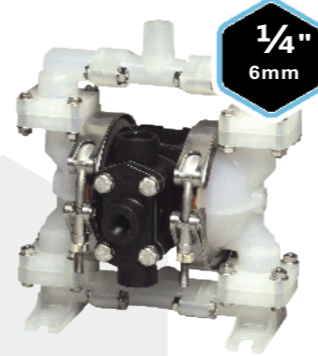
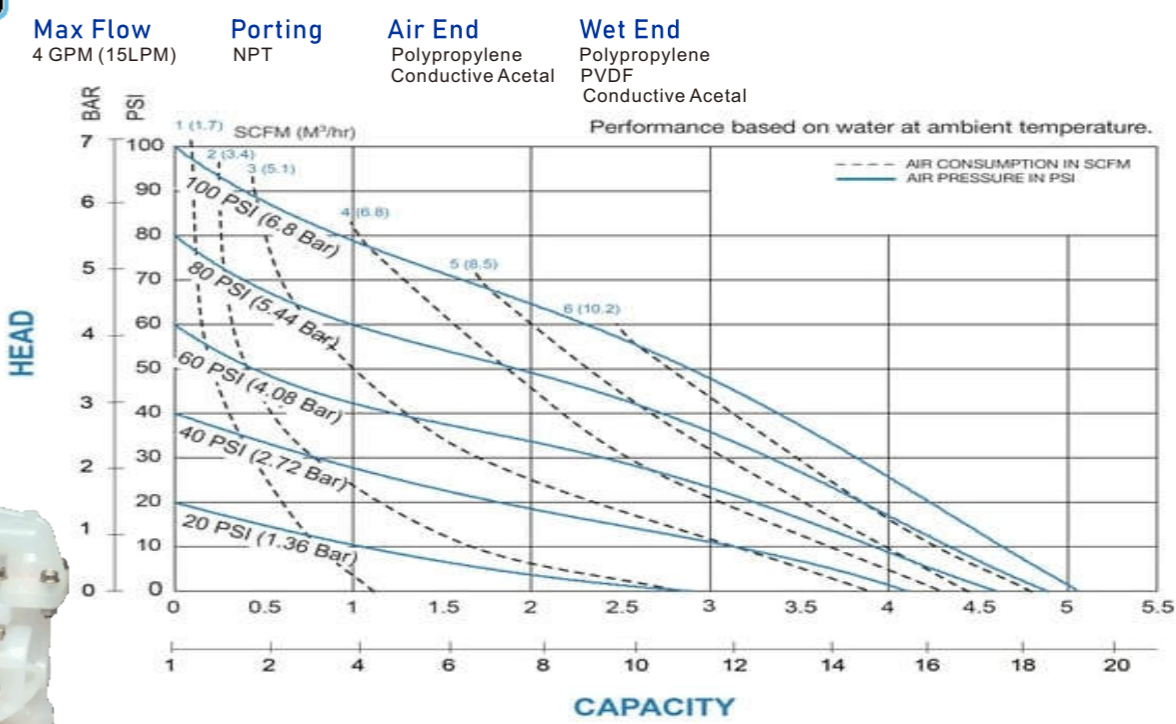


3" 75mm GB30 PERFORMANCE

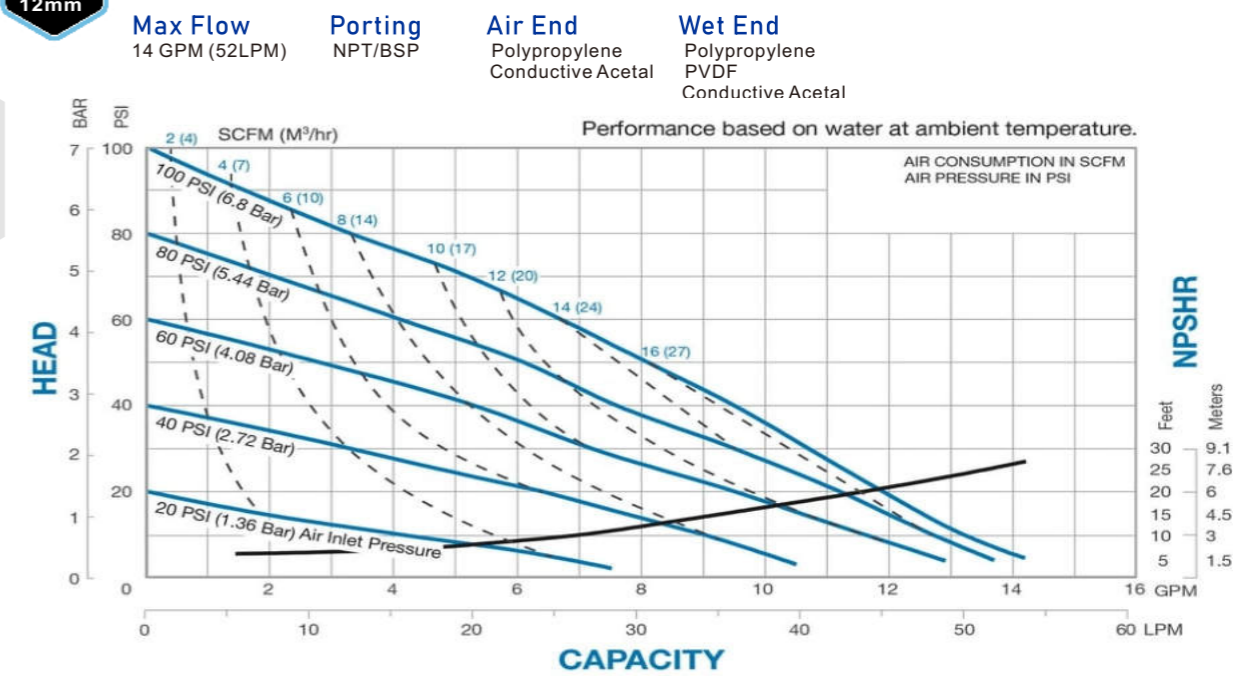


Non-Metallic Pump Performance & Specification

1/4" 6mm GB02 PERFORMANCE



1/2" 12mm GB05 PERFORMANCE



Metallic Specification

Pump Models	A	B	C	D		E	Connection Style	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Discharge Pressure
	Height	Width	Depth	Bottom of Base to Suction	Center Line of Discharge							
	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	gal(liter)	gal(liter)	inch (mm)	psi (bar)	
GB 05 AL	11.5(292)	10.25(260)	7.44(179)	1.94(33)	11.5(292)	1/2" NPT/BSP	.5(12)	.026(.098)	15(57)	.13(3)	125(8.6)	
GB 05 SS	10.38(264)	10.25(260)	7.44(179)	1.31(33)	9.72(247)	1/2" NPT/BSP	.5(12)	.026(.098)	15(57)	.13(3)	125(8.6)	
GB 1F AL/C	12.72(323)	10.25(260)	10.38(264)	1.09(28)	11.84(301)	1" NTP/BSP	1(25)	.11(.42)	45(170)	.25(6)	125(8.6)	
GB 1F SS	12.84(326)	10.25(260)	10.38(264)	1.22(31)	11.97(304)	1" NTP/BSP	1(25)	.11(.42)	45(170)	.25(6)	125(8.6)	
GB 15 AL/C	21.58(548)	16.66(423)	12.36(314)	1.91(49)	20.31(516)	1 1/2" NPT/BSP	1.5(38)	.41(1.55)	106(401)	.25(6)	125(8.6)	
GB 15 SS	21.66(550)	16.66(423)	12.36(314)	1.97(50)	20.38(518)	1 1/2" NPT/BSP	1.5(38)	.41(1.55)	106(401)	.25(6)	125(8.6)	
GB 20 AL/C	26.31(669)	16.88(428)	12.59(320)	1.88(48)	24.63(625)	2" NTP/BSP	2(50)	.42(1.59)	200(758)	.25(6)	125(8.6)	
GB 20 SS	26.31(669)	16.88(428)	12.59(320)	2(50)	24.75(629)	2" NTP/BSP	2(50)	.42(1.59)	200(758)	.25(6)	125(8.6)	
GB 30 AL/C	32.06(814)	19.66(499)	15.75(400)	2.34(60)	29.97(761)	3" NTP/BSP	3(75)	.94(3.56)	285(1,078)	.38(9.5)	125(8.6)	
GB 30 SS	32.28(820)	19.66(499)	15.75(400)	2.28(65)	30.19(767)	3" NTP/BSP	3(75)	.94(3.56)	285(1,078)	.38(9.5)	125(8.6)	

Dimensional Tolerance: ±1/8" (± 3mm) • See service manual for complete specifications.

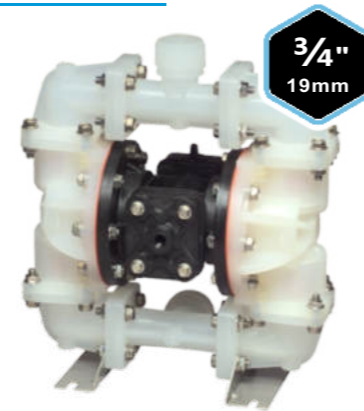
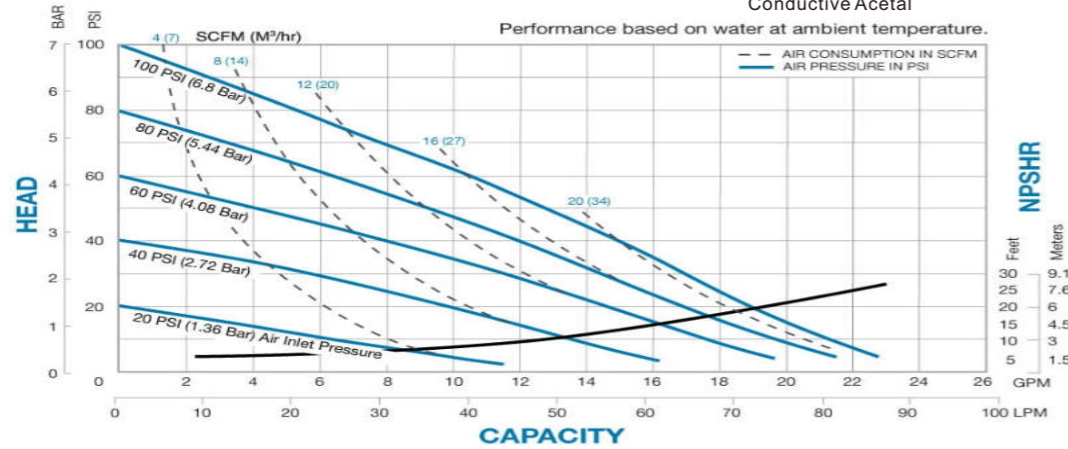
3/4" 19mm GB07 PERFORMANCE

Max Flow
23 GPM (87LPM)

Porting
NPT/BSP

Air End
Polypropylene
Conductive Acetal

Wet End
Polypropylene
PVDF
Conductive Acetal



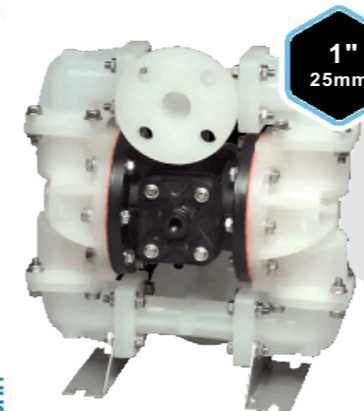
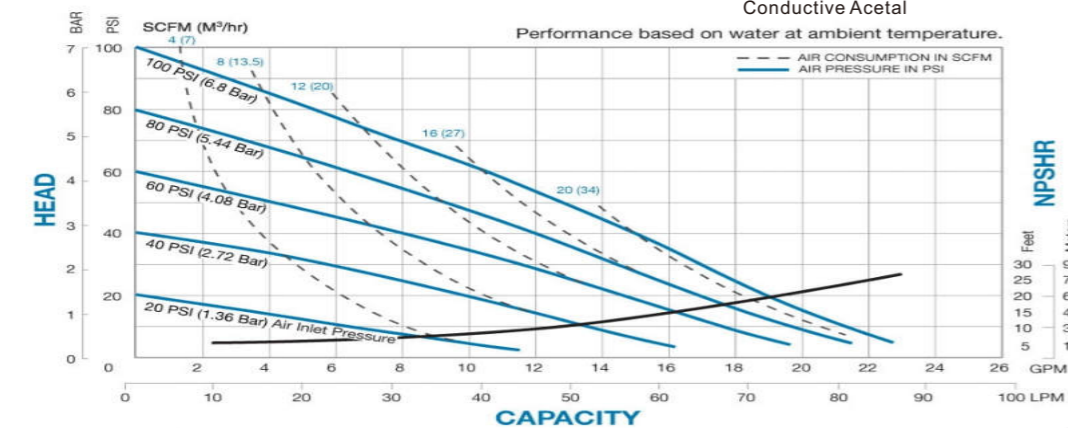
1" 25mm GB10 PERFORMANCE

Max Flow
23 GPM (87LPM)

Porting
ANSI

Air End
Polypropylene
Conductive Acetal

Wet End
Polypropylene
PVDF
Conductive Acetal



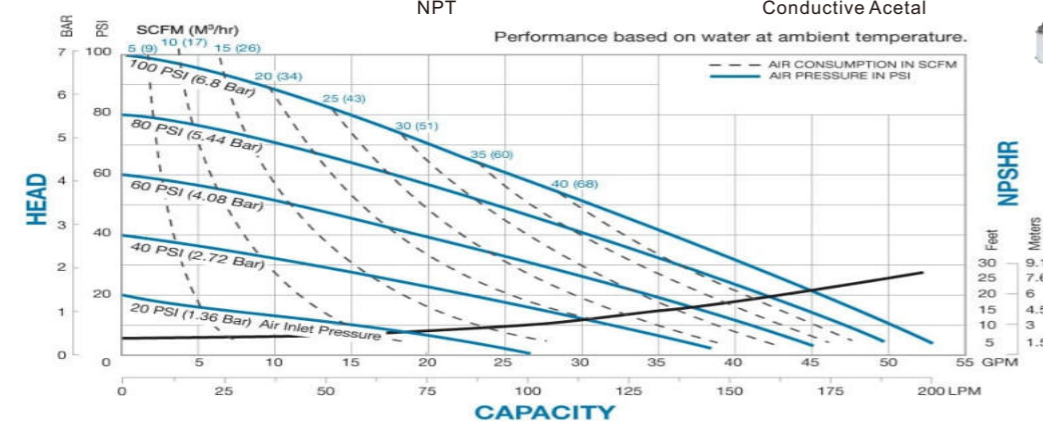
1" 25mm GB1F PERFORMANCE

Max Flow
53 GPM (200LPM)

Porting
ANSI
DIN
NPT

Air End
Polypropylene
Conductive Acetal

Wet End
Polypropylene
PVDF
Conductive Acetal



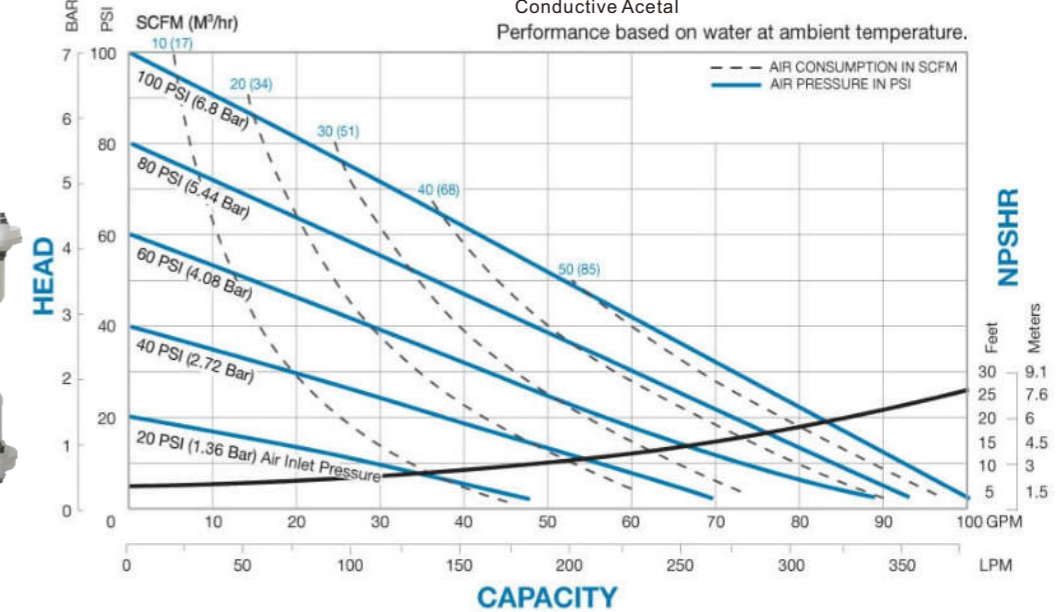
1 1/2" 38mm GB15 PERFORMANCE

Max Flow
100 GPM (378LPM)

Porting
ANSI
DIN

Air End
Polypropylene
Conductive Acetal

Wet End
Polypropylene
PVDF
Conductive Acetal



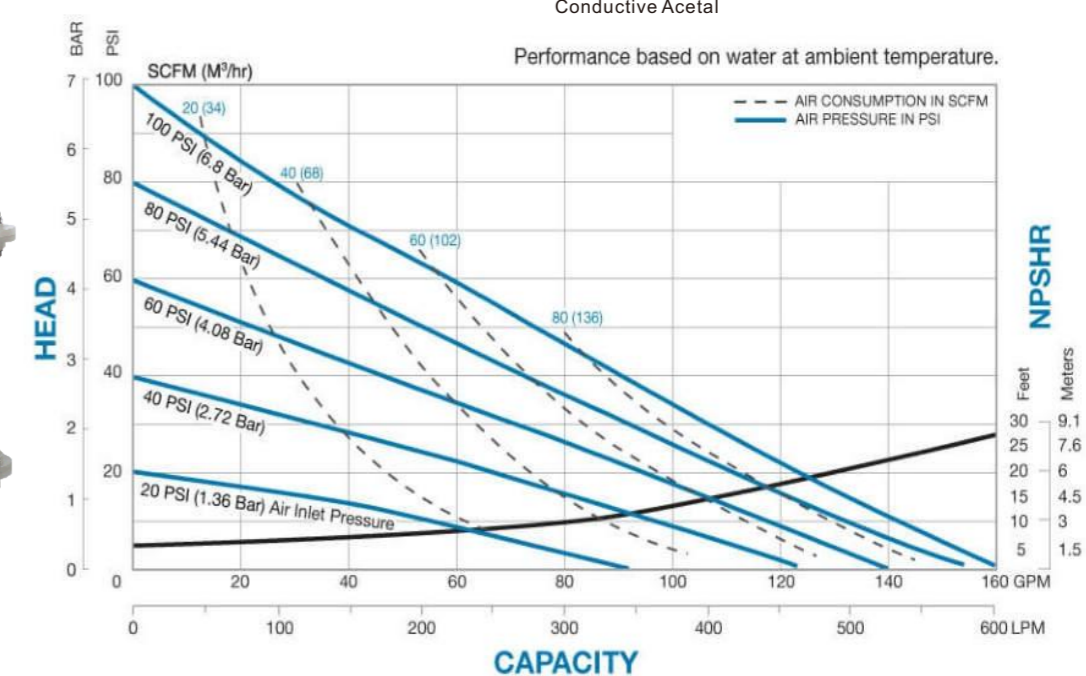
2" 50mm GB20 PERFORMANCE

Max Flow
160 GPM (605LPM)

Porting
Universal

Air End
Polypropylene
Conductive Acetal

Wet End
Polypropylene
PVDF
Conductive Acetal



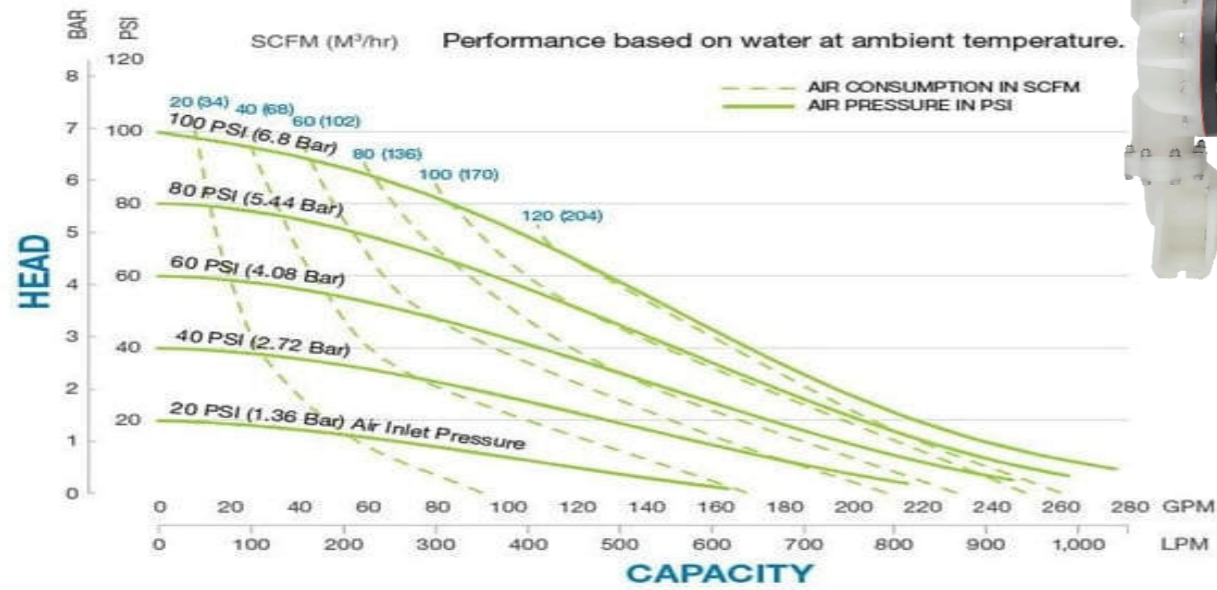
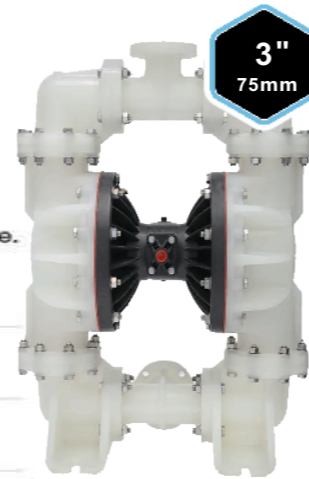
3" 75mm GB30 PERFORMANCE

Max Flow
280GPM (1,061LPM)

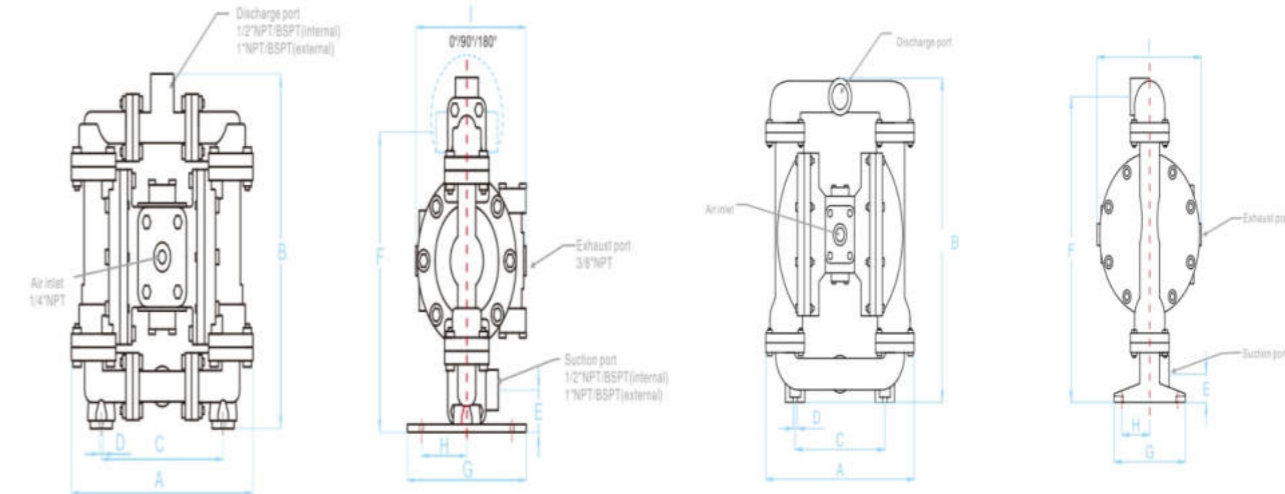
Porting
ANSI
DIN

Air End
Polypropylene

Wet End
Polypropylene
PVDF



Pump Dimensional Drawing



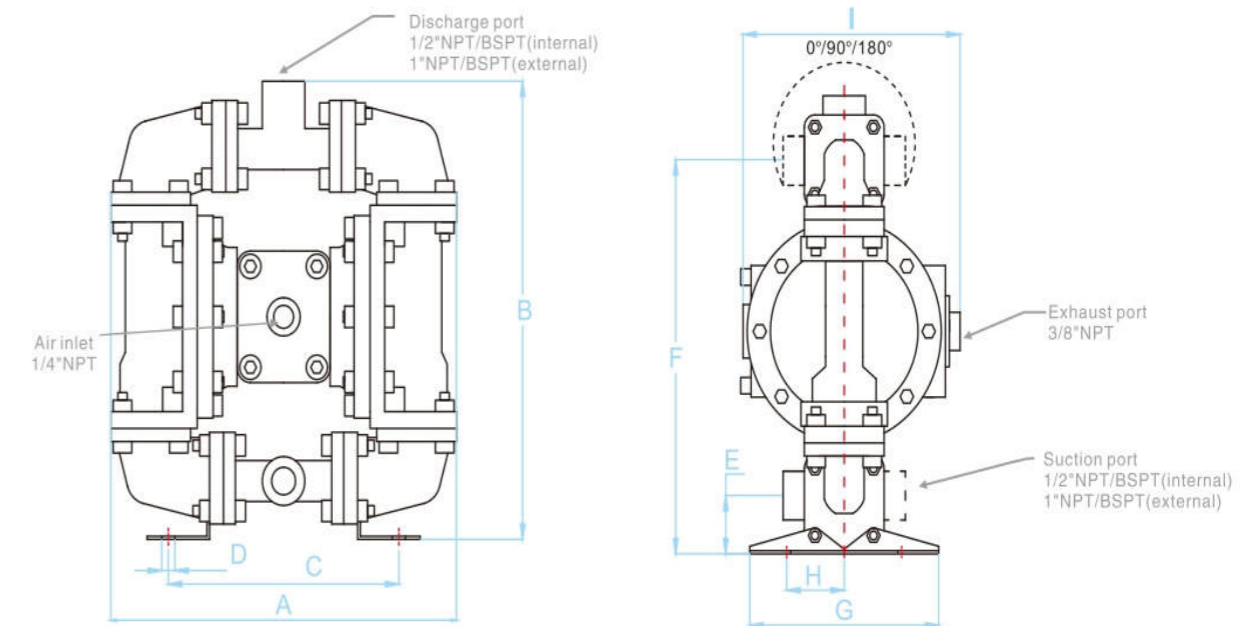
GB05 Metallic

GB1F, GB15, GB20, GB30
Metallic

Non-Metallic Specification

Pump Models	A	B	C	D	E	Connection Style	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Discharge Pressure
	Height	Width	Depth	Bottom of Base to Center Line of Suction	Bottom of Base to Center Line of Discharge						
	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)		inch (mm)	gal(liter)	gal(liter)	inch (mm)	psi (bar)
GB 02	7.81(198)	7(178)	5.5(140)	.75(19)	7.81(198)	1/4" NP	.25(6)	.01(.04)	4(15)	.03(1)	100(6.9)
GB 05	11.31(287)	10.13(257)	7.06(179)	1.38(35)	11.31(287)	1/2" NPT	.5(13)	.026(.098)	14(52)	.125(3)	100(6.9)
GB 07	13.34(339)	11.81(300)	7.06(179)	1.81(46)	13.34(339)	3/4" NPT	.75(19)	.026(.098)	23(87)	.15(4)	100(6.9)
GB 10	13.81(351)	11.81(300)	7.56(192)	2.54(64)	11.69(297)	1" ANSI	1(25)	.026(.098)	23(87)	.15(4)	100(6.9)
GB 1F	21(533)	17(433)	11.63(295)	2.54(64)	21(533)	1" U	1(25)	.19(.72)	53(200)	.25(6)	100(6.9)
GB 15	28.75(730)	23(584)	13(330)	3.5(89)	25.19(640)	1 1/2" ANSI or DIN	1.5(38)	.36(1.36)	100(378)	.47(12)	100(6.9)
GB 20	32.25(819)	23.81(605)	13(330)	3.81(97)	28.19(716)	2" U	2(50)	.36(1.36)	160(605)	.66(17)	100(6.9)
GB 30	40.66(1033)	32.31(821)	16.19(411)	4.85(123)	40.66(1033)	3" ANSI or DIN	3(75)	1.0(3.78)	280(1061)	.75(19)	100(6.9)

Dimensional Tolerance: ±1/8" (± 3mm) • See service manual for complete specifications.



GB Non-Metallic