

STANDARD DUTY BALL VALVE PUMPS

OFFERING THE WIDEST RANGE OF PERFORMANCE AND APPLICATION CAPABILITIES

Standard Duty Metallic Pumps are ideally suited for intermittent / on-demand, portable, moderately abrasive fluids, and suspended solids. Standard duty pumps are constructed in Aluminum, Cast Iron, Stainless Steel and non-metallic materials such as PTFE, Polypropylene, and PVDF with elastomer TPE (thermal plastic elastomers) and PTFE options in diaphragms and check valves.



Lightweight & Portable

Weights as low as 4 lbs (1.8 kg)



All Bolted Construction

Durable and high pressure capable



Top Discharge

For pumping out of tough areas



Ball Check Valves

Provide powerful, high flow pumping



Diaphragm Connecting Rods

Reliable and consistent diaphragm control



ESADS+Plus Air Valve

Externally Serviceable Air Distribution System

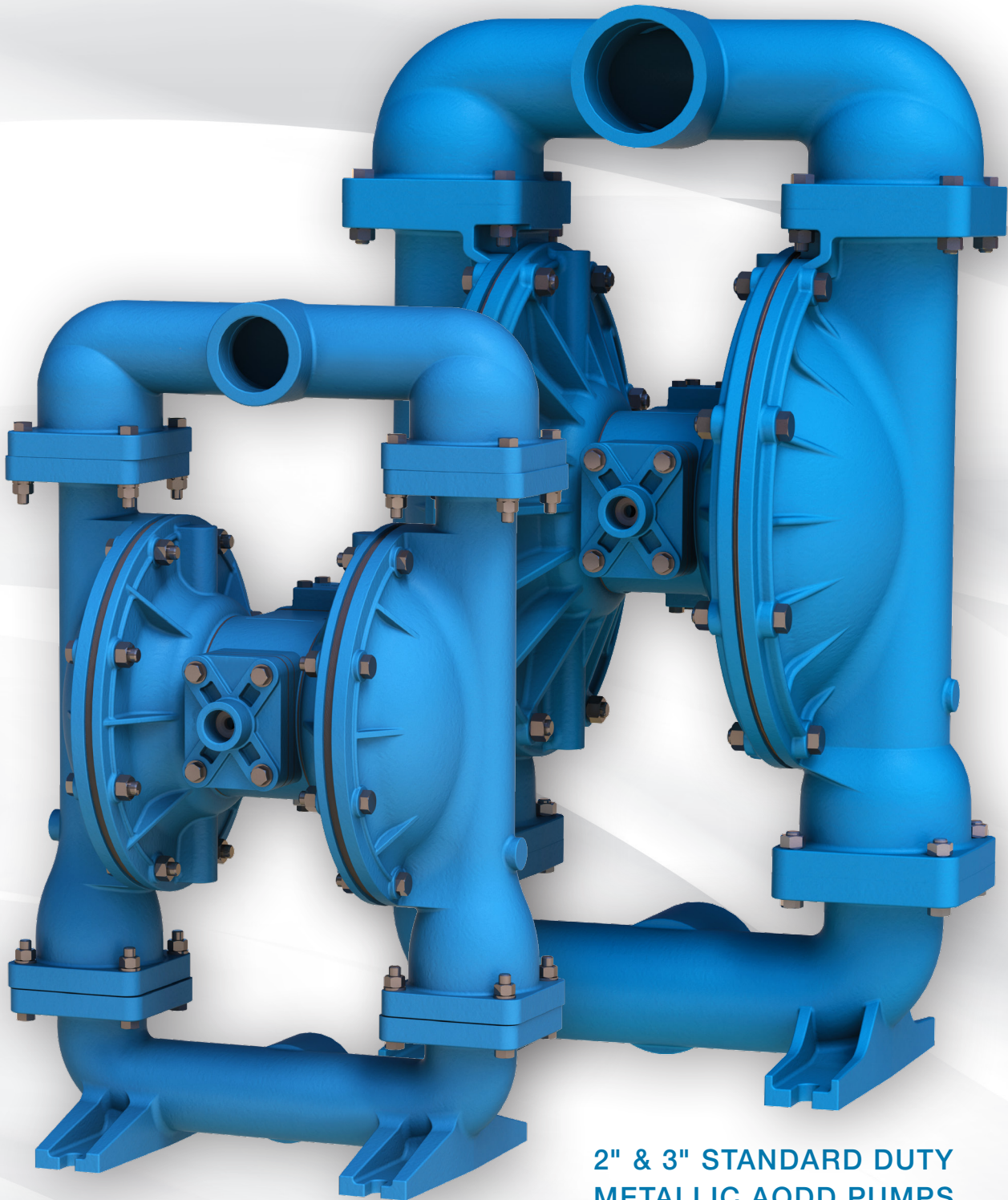


Dynamic Manifold Connections

90° - 180° rotation options



Certifications Available



2" & 3" STANDARD DUTY METALLIC AODD PUMPS

CHARACTERISTICS		Metallic	Non-Metallic
Fluid Characteristics	Water	+	+
	Suspended Solids	+	✓
	Non-Suspended Solids	!	✗
	Line Size Solids	✗	✗
	Sludge / Slurry	✓	!
	High Viscosity (Flowable Fluids)	✓	✓
	Erosion / Abrasive Fluids	High	!
		Moderate	!
		Low	✓
Installation	Corrosion	✓	+
	Permanent	✓	✓
	Portable	+	+
	Containment / Prevention	!	!
	Flooded Suction	✓	✓
	Suction Lift	✓	✓
Duty	Submerged	✓	!
	Intermittent / On-Demand	+	+
	Continuous	✓	✓

+ = Best Type
 ✓ = Suitable
 ! = Limitations
 ✗ = Not Recommended

What is
EVOLUTION?

OPTIMIZED PERFORMANCE |

Optimized performance without sacrificing **proven reliability**. These pumps have undergone an engineering **EVOLUTION**, leveraging trusted and proven product designs to **improve their performance** by application of advanced engineering methods. Unlike the competition, these pumps are **fully interchangeable** with prior models.

Check out the **S20 & S30 Metallic updates** on page 39. Watch for **more Engineering Evolutions** to come in the near future!

STANDARD DUTY BALL VALVE PUMPS

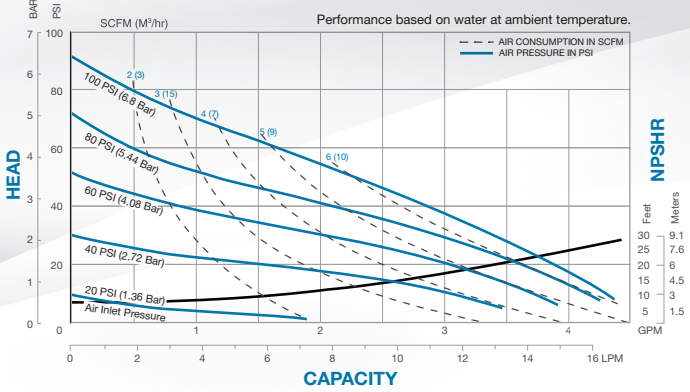
PERFORMANCE & SPECIFICATIONS

1/4" 6mm

X02 Metallic Performance



- MAX FLOW
• 4.75 GPM (18 LPM)
- PORTING
• BSP Parallel
- AIR END
• Stainless Steel
- WET END
• Stainless Steel

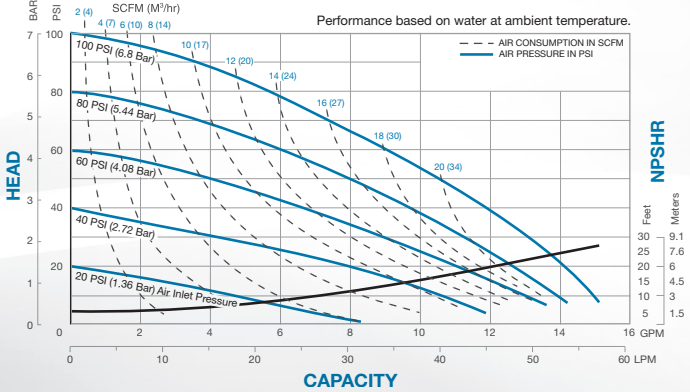


1/2" 12mm

S05 Metallic Performance



- MAX FLOW
• 15 GPM (57 LPM)
- PORTING
• NPT / BSP
• ANSI Flange
- AIR END
• Aluminum
- WET END
• Aluminum
• Stainless Steel

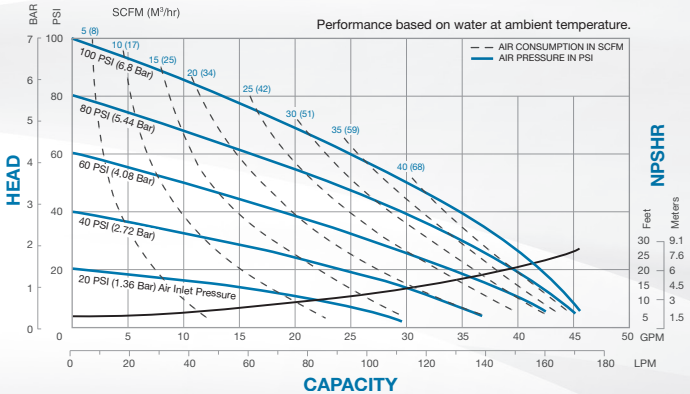


1" 25mm

S1F Metallic Performance



- MAX FLOW
• 45 GPM (170 LPM)
- PORTING
• NPT / BSP
• ANSI Flange
- AIR END
• Aluminum
- WET END
• Cast Iron
• Aluminum
• Stainless Steel

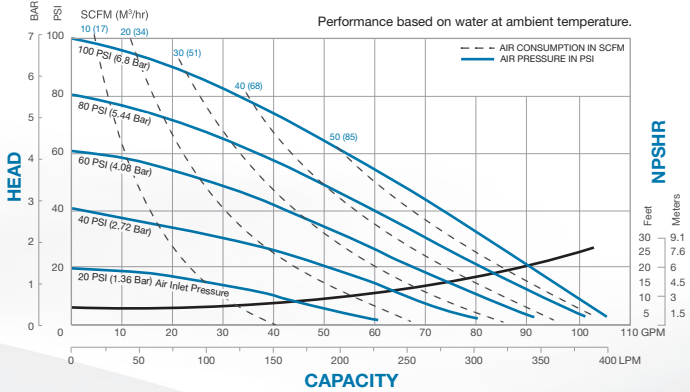


1 1/2" 38mm

S15 Metallic Performance



- MAX FLOW
• 106 GPM (401 LPM)
- PORTING
• NPT / BSP
• ANSI Flange
- AIR END
• Aluminum
- WET END
• Cast Iron
• Aluminum
• Stainless Steel

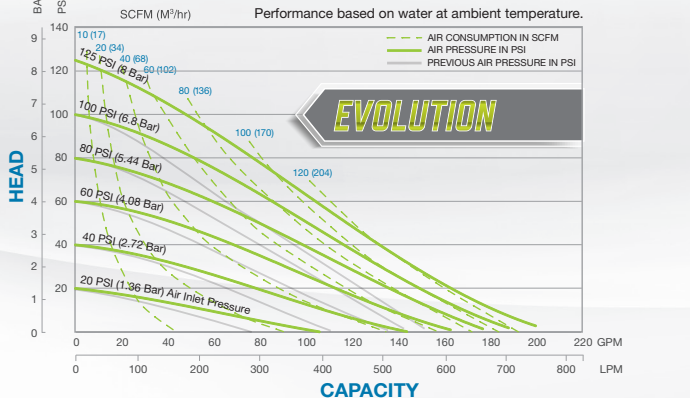


2" 50mm

S20 Metallic Performance



- MAX FLOW
• 200 GPM (758 LPM)
- PORTING
• NPT / BSP
• ANSI / DIN Flange
- AIR END
• Aluminum
- WET END
• Aluminum
• Stainless Steel
• Cast Iron

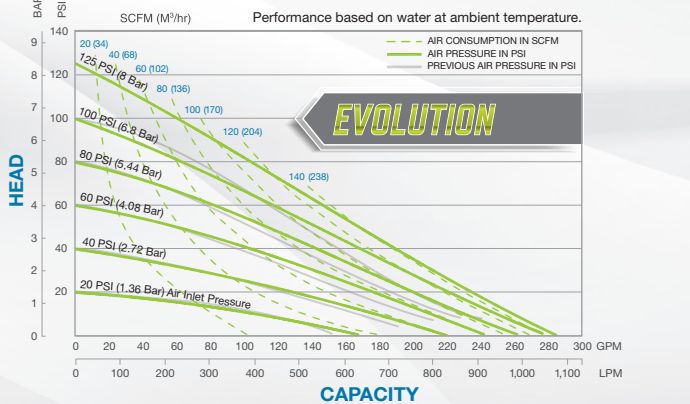


3" 75mm

S30 Metallic Performance

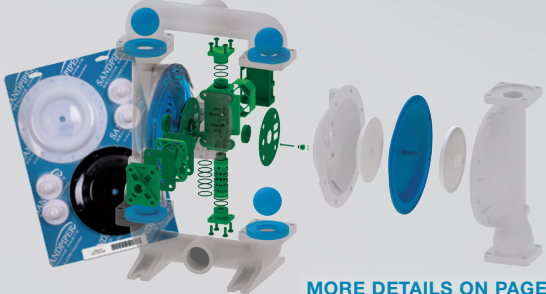


- MAX FLOW
• 285 GPM (1,078 LPM)
- PORTING
• NPT / BSP
• ANSI / DIN Flange
- AIR END
• Aluminum
- WET END
• Aluminum
• Stainless Steel
• Cast Iron



Genuine Parts Service Kits

- Everything in One Place.
- Reduce Frequency of Repairs.
- Increase Uptime.
- Save Time and Money.



MORE DETAILS ON PAGE 66

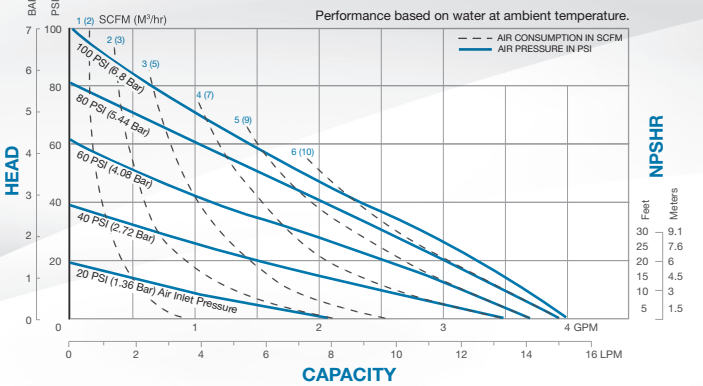
STANDARD DUTY BALL VALVE PUMPS

PERFORMANCE & SPECIFICATIONS

1/4" 6mm

PB 1/4 Non-Metallic Performance

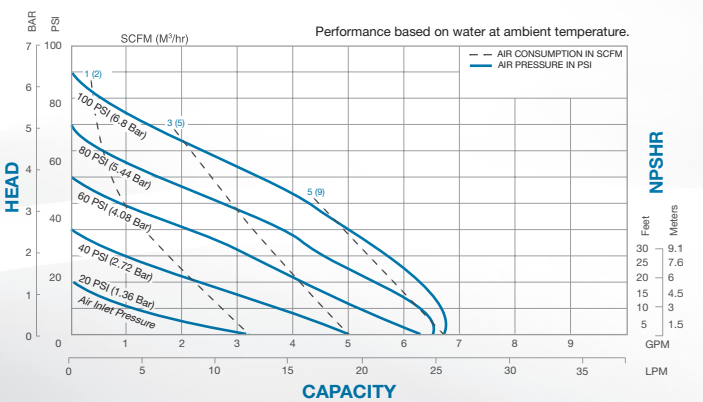
- MAX FLOW
• 4 GPM (15 LPM)
- PORTING
• NPT
- AIR END
• Polypropylene
• Conductive Acetal
- WET END
• Polypropylene
• PVDF
• Conductive Acetal



3/8" 9mm

WR10 Non-Metallic Performance

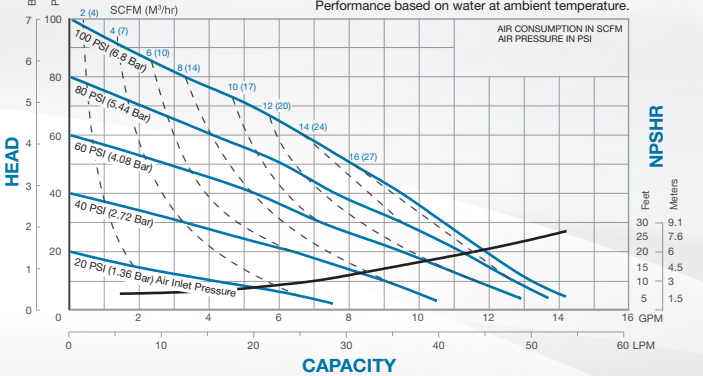
- MAX FLOW
• 6.8 GPM (26 LPM)
- PORTING
• NPT / BSP
- AIR END
• PTFE
- WET END
• PTFE
• PVDF



1/2" 12mm

S05 Non-Metallic Performance

- MAX FLOW
• 14 GPM (52 LPM)
- PORTING
• NPT / BSP
- AIR END
• Polypropylene
• Conductive Polypropylene
- WET END
• Polypropylene / Conductive Polypropylene
• Nylon
• PVDF / Conductive PVDF
• Conductive Acetal



SANDPIPER Mobile App

The SANDPIPER Mobile App can save you time and money by allowing you to track your pump maintenance, submit quotes for kit purchasing and have instant access to many other tools and resources.

ACCESS EXCLUSIVELY AT SANDPIPER.AODDPUMPONLINE.COM

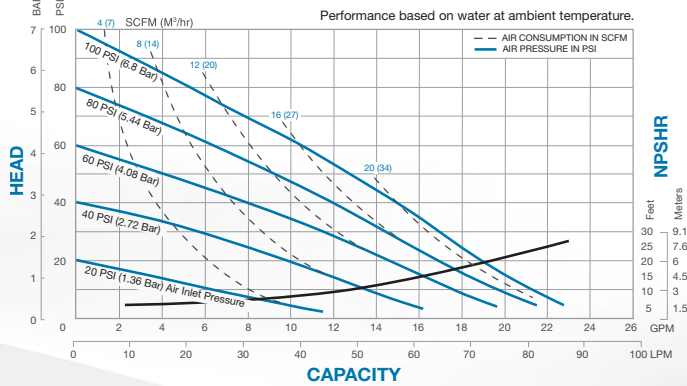


In-line ported options also available on S05 and S1F

3/4" 19mm

S07 Non-Metallic Performance

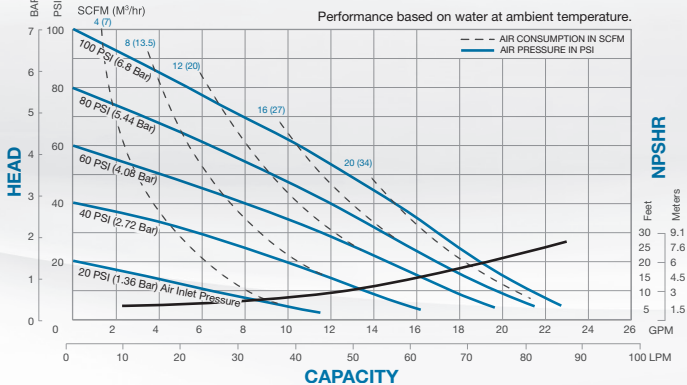
- MAX FLOW
• 23 GPM (87 LPM)
- PORTING
• NPT / BSP
- AIR END
• Polypropylene
- WET END
• Polypropylene
• Nylon
• PVDF



1" 25mm

S10 Non-Metallic Performance

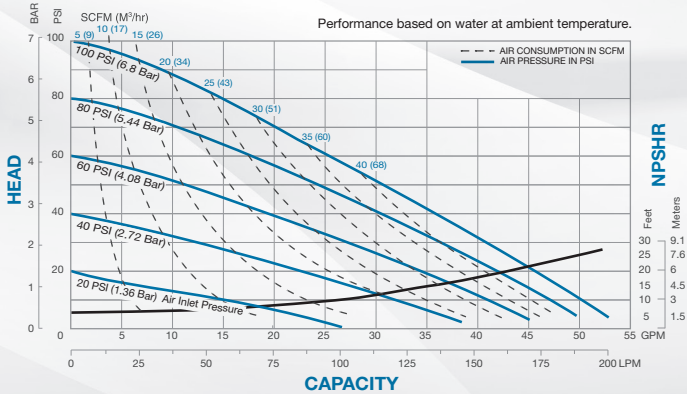
- MAX FLOW
• 23 GPM (87 LPM)
- PORTING
• ANSI Flange
- AIR END
• Polypropylene
- WET END
• Polypropylene
• Nylon
• PVDF



1" 25mm

S1F Non-Metallic Performance

- MAX FLOW
• 53 GPM (200 LPM)
- PORTING
• ANSI Flange
• DIN Flange
• NPT
- AIR END
• Polypropylene
• 40% Glass Filled Polypropylene
• Conductive Polypropylene
- WET END
• Polypropylene
• PVDF
• Conductive Polypropylene
• Conductive PVDF



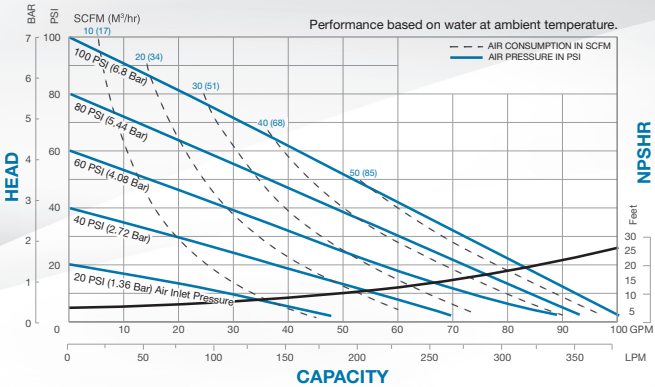
STANDARD DUTY BALL VALVE PUMPS

PERFORMANCE & SPECIFICATIONS

1 1/2" 38mm

S15 Non-Metallic Performance

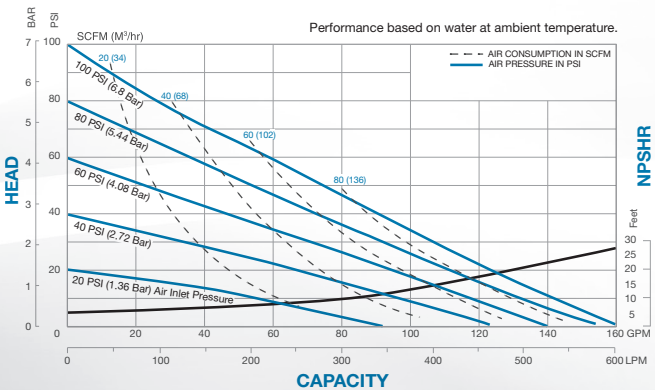
- MAX FLOW
- 100 GPM (378 LPM)
- PORTING
- ANSI Flange
- DIN Flange
- AIR END
- Polypropylene
- Conductive Polypropylene
- WET END
- Polypropylene
- PVDF
- Conductive Polypropylene



2" 50mm

S20 Non-Metallic Performance

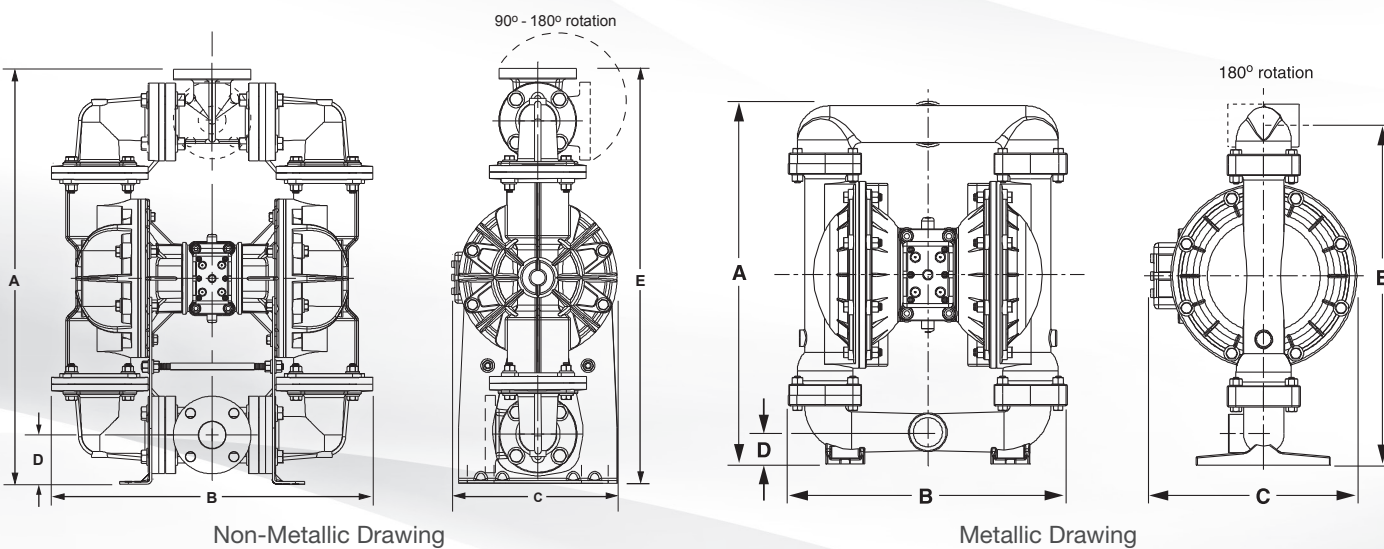
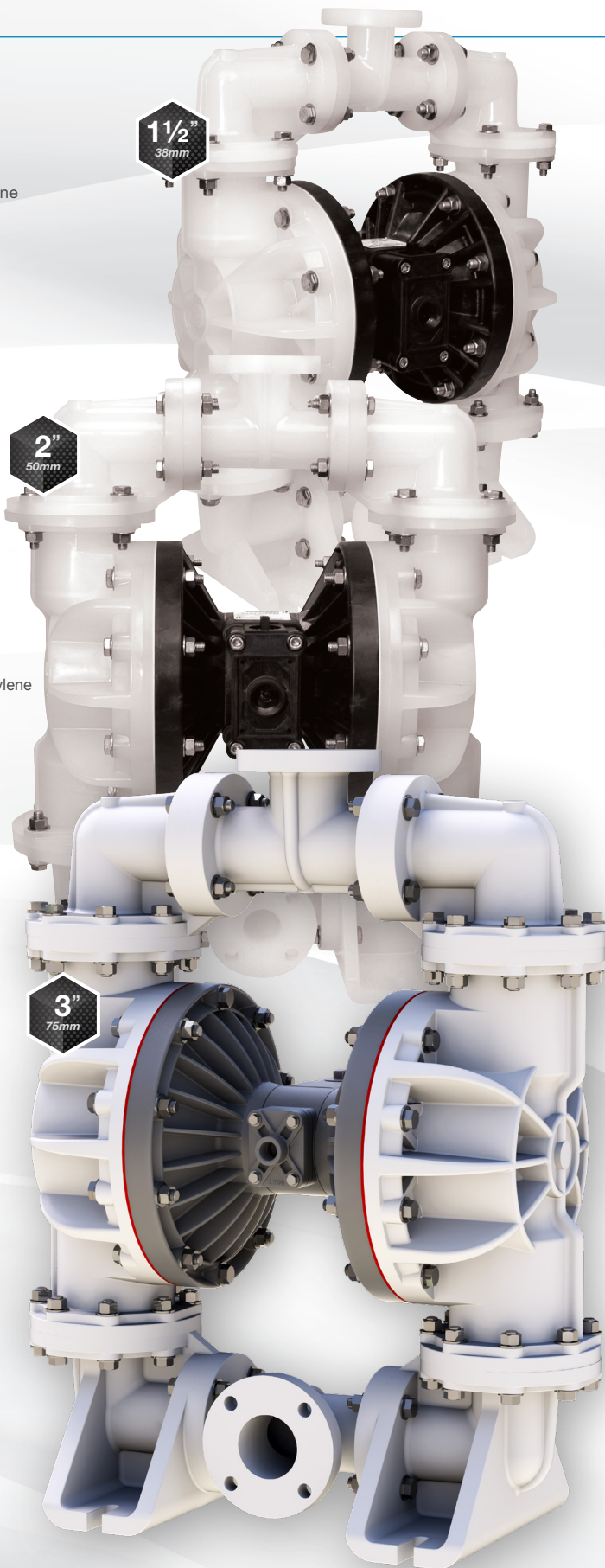
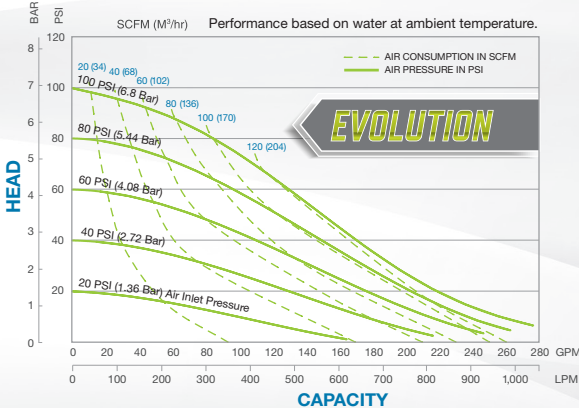
- MAX FLOW
- 160 GPM (605 LPM)
- PORTING
- Universal Flange
- AIR END
- Polypropylene
- Conductive Polypropylene
- WET END
- Polypropylene
- PVDF
- Conductive Polypropylene



3" 75mm

S30 Non-Metallic Performance

- MAX FLOW
- 280 GPM (1,061 LPM)
- PORTING
- ANSI Flange
- DIN Flange
- AIR END
- Glass Filled Polypropylene
- WET END
- Polypropylene
- PVDF



METALLIC SPECIFICATIONS											
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 inches (mm)	Width inches (mm)	Depth inches (mm)	Bottom of Base to Center Line of Suction inches (mm)	Center Line of Discharge inches (mm)		inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)
X02	5.81 (148)	7.44 (189)	4.38 (111)	.63(16)	5.41 (138)	1/4" NPT/BSP	.25 (6)	.003 (.01)	4.75 (18)	.08 (2)	125 (8.6)
S05 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)
S05 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)
S1F AL / CI	12.72 (323)	10.25 (260)	10.38 (264)	1.09 (28)	11.84 (301)	1" NPT/BSP	1 (25)	.11 (.42)	45 (170)	.25 (6)	125 (8.6)
S1F SS	12.84 (326)	10.25 (260)	10.38 (264)	1.22 (31)	11.97 (304)	1" NPT/BSP	1 (25)	.11 (.42)	45 (170)	.25 (6)	125 (8.6)
S15 AL / CI	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)
S15 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)
S20 AL / CI	26.31 (669)	16.88 (428)	12.59 (320)	1.88 (48)	24.63 (625)	2" NPT/BSP	2 (50)	.42 (1.59)	200 (758)	.25 (6)	125 (8.6)
S20 SS	26.31 (669)	16.88 (428)	12.59 (320)	2 (50)	24.75 (629)	2" NPT/BSP	2 (50)	.42 (1.59)	200 (758)	.25 (6)	125 (8.6)
S30 AL/CI	32.06 (814)	19.66 (499)	15.75 (400)	2.34 (60)	29.97 (761)	3" NPT/BSP	3 (75)	.94 (3.56)	285 (1,078)	.38 (9.5)	125 (8.6)
S30 SS	32.28 (820)	19.66 (499)	15.75 (400)	2.28 (65)	30.19 (767)	3" NPT/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.

NON-METALLIC SPECIFICATIONS											
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 inches (mm)	Width inches (mm)	Depth inches (mm)	Bottom of Base to Center Line of Suction inches (mm)	Center Line of Discharge inches (mm)		inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)
PB1/4	7.81 (198)	7 (178)	5.5 (140)	.75 (19)	7.81 (198)	1/4" NPT	.25 (6)	.01 (.04)	4 (15)	.03 (1)	100 (6.9)
WR10	5.32 (135)	4.09 (104)	5.72 (145)	0.94 (24)	0.94 (24)	3/8" NPT	.375 (10)	.009 (.034)	6.8 (26)	0.1 (2.25)	100 (6.9)
S05	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)
S07T*	13.34 (339)	11.81 (300)	7.06 (179)	1.81 (46)	13.34 (339)	3/4" NPT	.75 (19)	.026 (.059)	13 (48)	.38 (9)	100 (6.9)
S07	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)
S10	13.81 (351)	11.81 (300)	7.56 (192)	2.5 (64)	11.69 (297)	1" ANSI	1 (25)	.026 (.098)	23 (87)	.15 (4)	100 (6.9)
S1F	21 (533)	17 (433)	11.63 (295)	2.5 (64)	21 (533)	1" U	1 (25)	.19 (.72)	53 (200)	.25 (6)	100 (6.9)
S15	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)
S20	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)
S30	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.

U = Universal: Fits both ANSI or DIN.
T = Trihedral.