

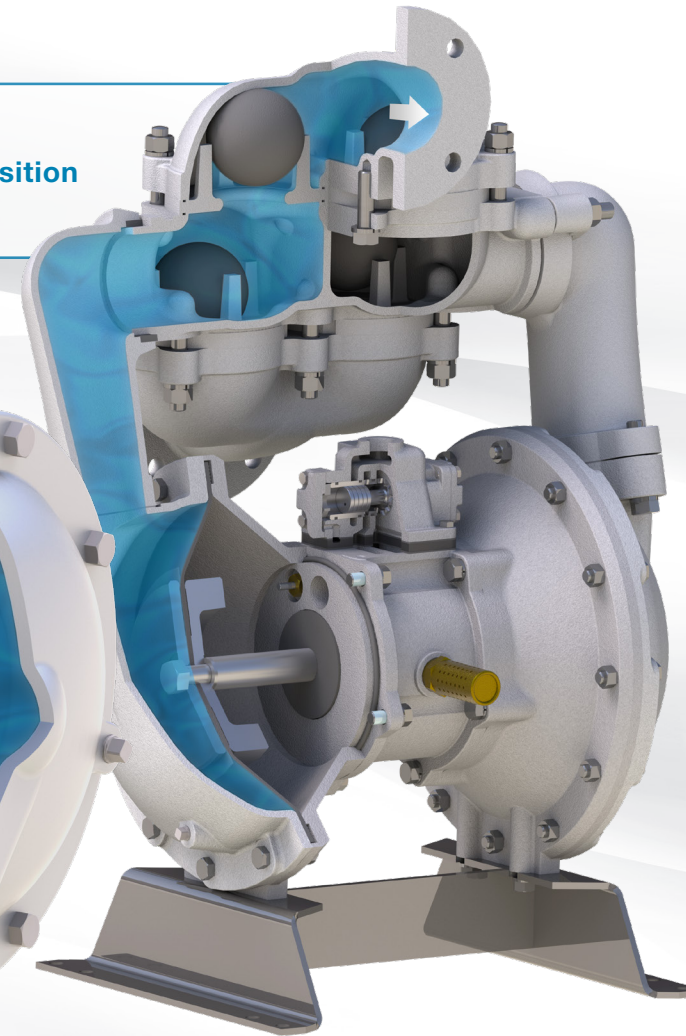
HEAVY DUTY BALL VALVE PUMPS

FOR FLUIDS CONTAINING SETTLING, SUSPENDED & FLOATING SOLIDS

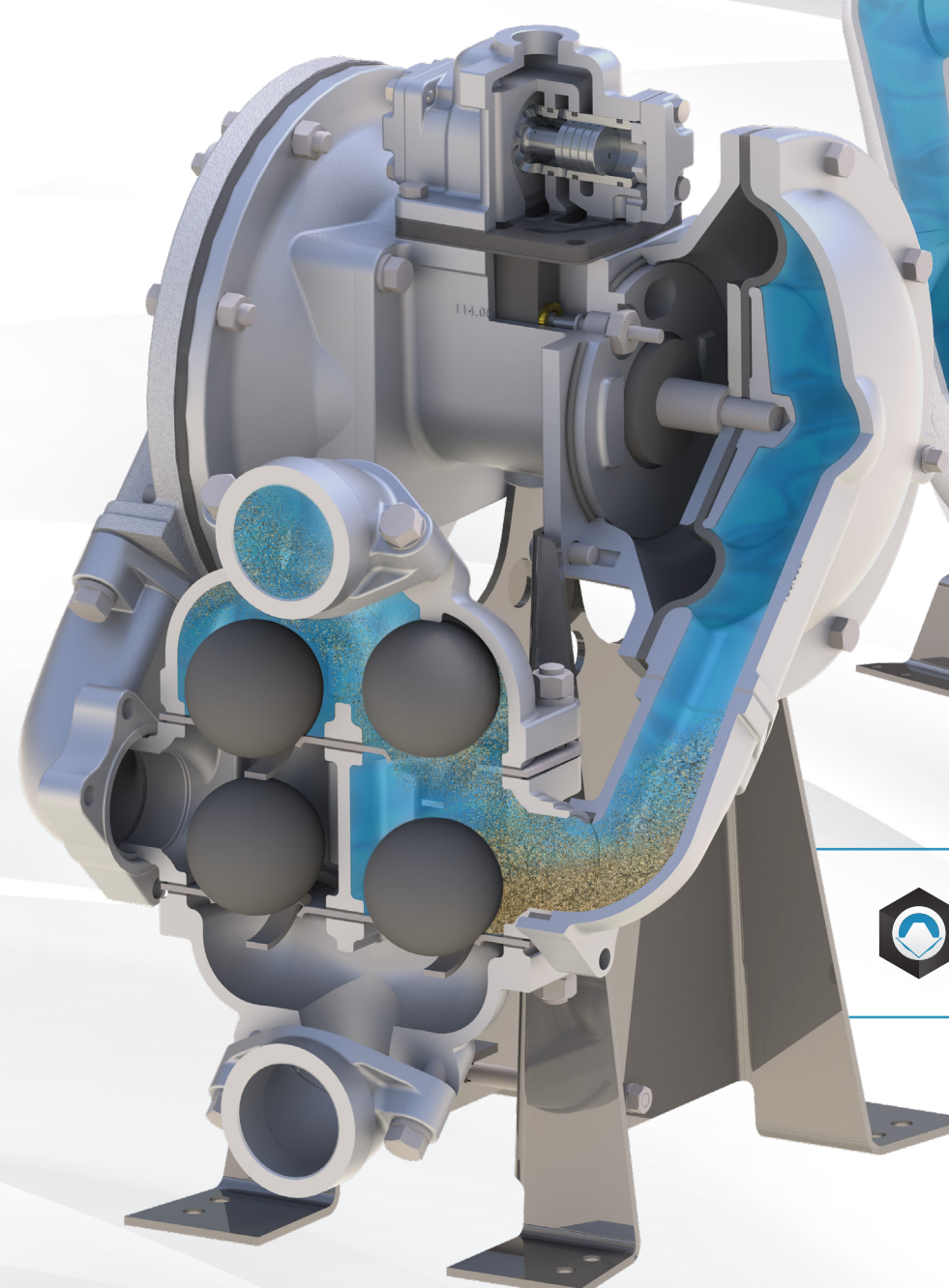
HDB Metallic Pumps are ideal for thin to highly viscous and small solids-laden fluids, while providing excellent suction lift capability and exclusive variable porting options (side, top, bottom and dual). HDB pumps are thick wall constructed of Sand Casted Aluminum, Cast Iron, Stainless Steel or Alloy C with elastomer, TPE (thermal plastic elastomers) and PTFE options in diaphragms and check valves. HDB pumps are enhanced with an extended wear package.



Top Porting Position



Down Porting Position



Bottom or Top Porting Positions

Greater process connection flexibility



All Bolted Construction

Durable and high pressure capable



Lightweight & Portable

Weights as low as 31 lbs (14 kg)



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

Can be vertically or horizontally mounted

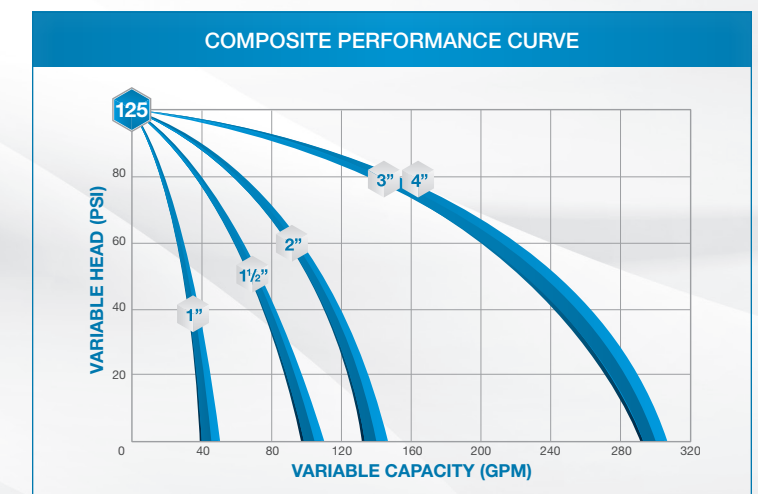


Certifications Available



PUMP CHARACTERISTICS		Metallic
Fluid Characteristics	Water	+
	Suspended Solids	+
	Non-Suspended Solids	+
	Line Size Solids	X
	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 X = Not Recommended



HEAVY DUTY BALL VALVE PUMPS

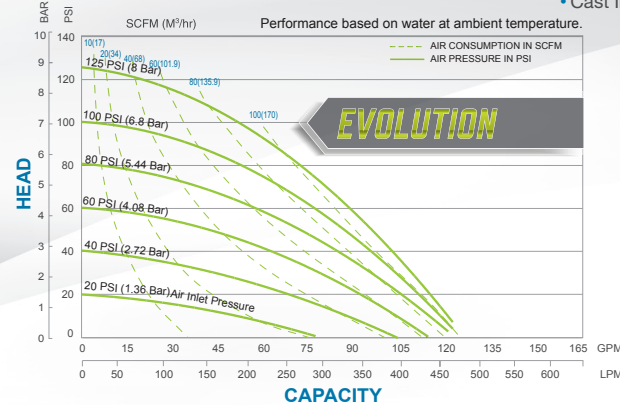
PERFORMANCE & SPECIFICATIONS

1 1/2"
38mm

HDB1 1/2 Metallic Performance



- MAX FLOW**
• 122 GPM (462 LPM)
- PORTING**
• NPT / BSP
• Available in side port only
- AIR END**
• Aluminum
• Cast Iron
- WET END**
• Aluminum
• Stainless Steel
• Alloy C
• Cast Iron

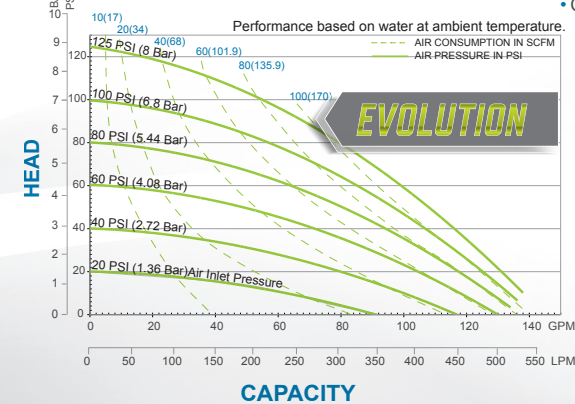


2"
50mm

HDB2 Metallic Performance



- MAX FLOW**
• 135 GPM (511 LPM)
- PORTING**
• NPT
- AIR END**
• Aluminum
• Cast Iron
- WET END**
• Aluminum
• Stainless Steel
• Alloy C
• Cast Iron

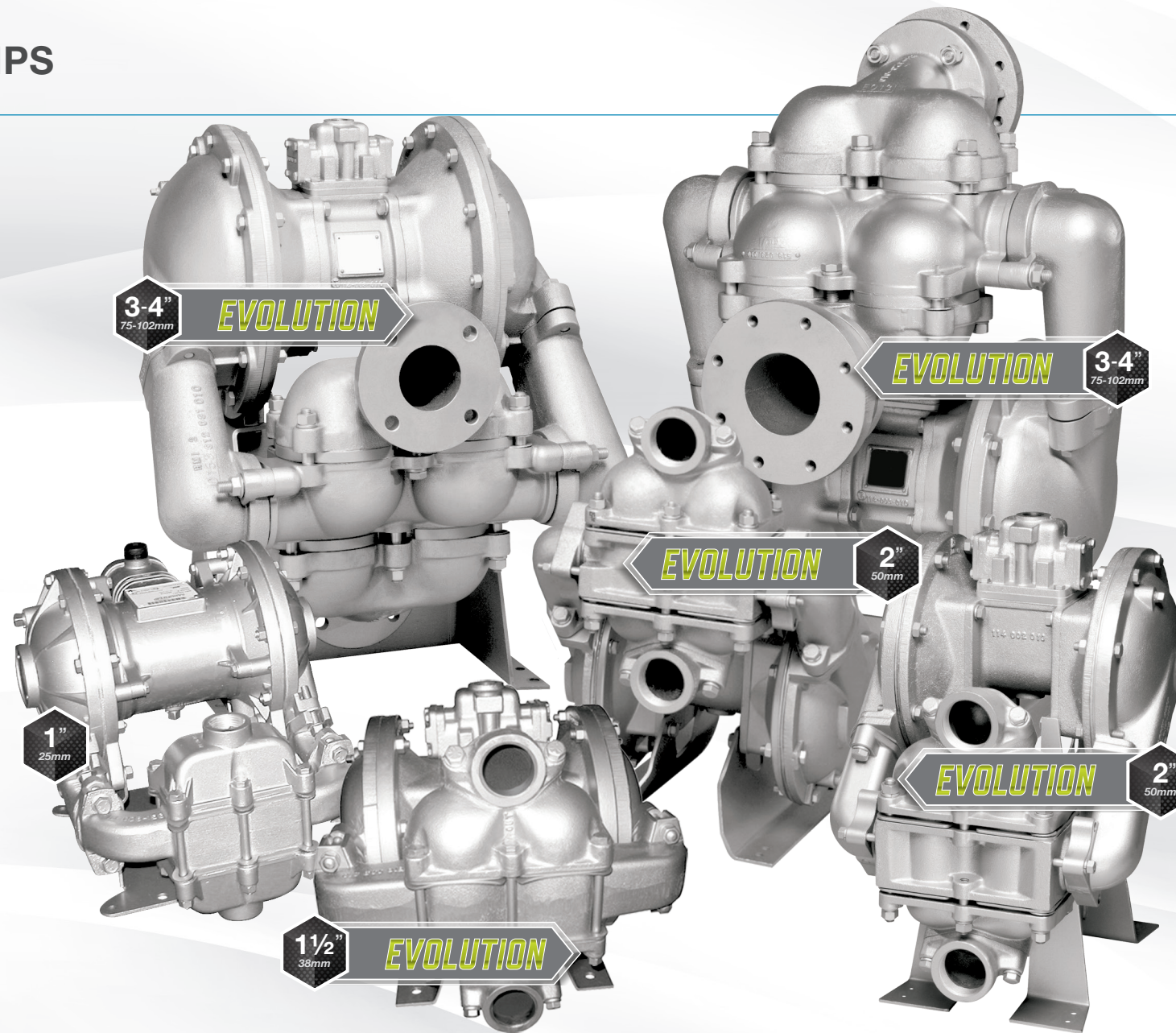
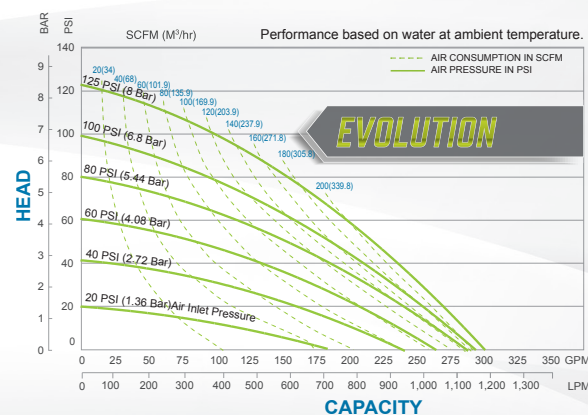


3-4"
75-102mm

HDB3 / HDB4 Metallic Performance



- MAX FLOW**
• 300 GPM (1,136 LPM)
- PORTING**
• ANSI Flange
- AIR END**
• Cast Iron
- WET END**
• Stainless Steel
• Cast Iron

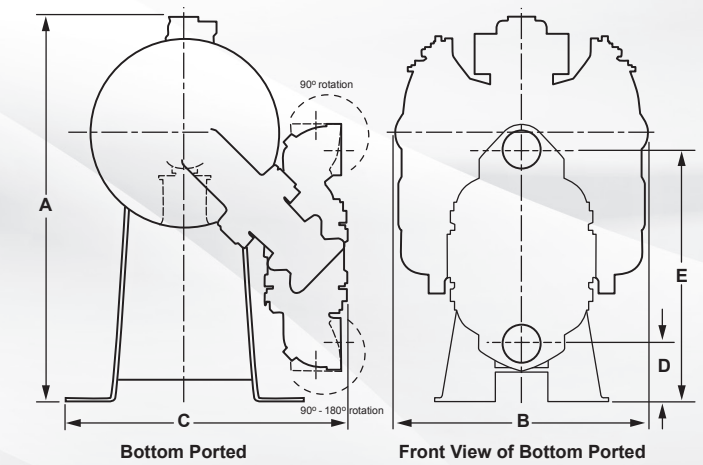
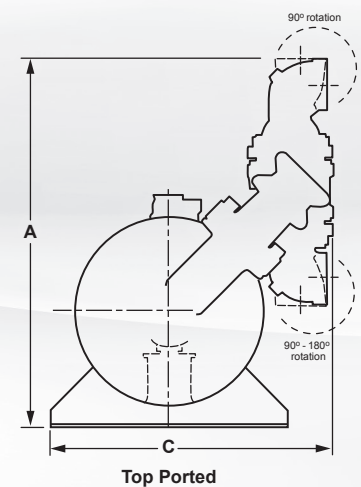
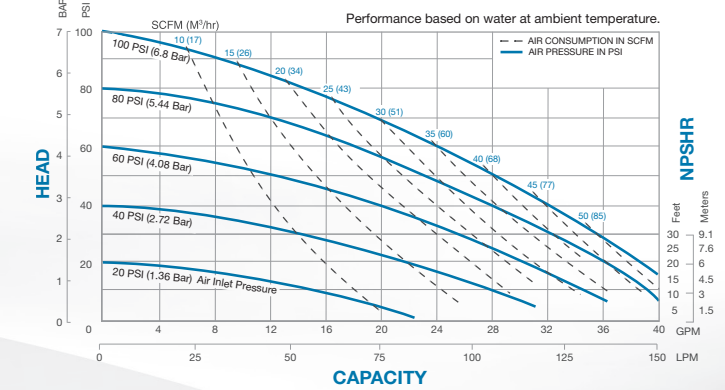


1"
25mm

SB1 / SB25 Metallic Performance



- MAX FLOW**
• 42 GPM (159 LPM)
- PORTING**
• NPT / BSP
- AIR END**
• Aluminum
• Cast Iron
- WET END**
• Aluminum
• Stainless Steel
• Alloy C



PUMP MODELS	A	B	C	D		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	Discharge						
SB1 / SB25	14.44 (367)	11.75 (298)	13.28 (337)	5.25 (133)	13 (330)	1" NPT/BSP	1 (25)	.09 (.34)	42 (159)	.25 (6)	125 (8.6)
SB1 TOP	13.5 (342)	11.75 (298)	14.88 (378)	5.62 (142)	13.5 (342)	1" NPT/BSP	1 (25)	.09 (.34)	42 (159)	.25 (6)	125 (8.6)
SB1 BOTTOM	13.69 (347)	11.75 (298)	14.88 (378)	2.22 (21)	8.44 (214)	1" NPT/BSP	1 (25)	.09 (.34)	42 (159)	.25 (6)	125 (8.6)
HDB1 1/2 TOP	19.22 (488)	15.5 (419)	17 (432)	8.14 (207)	18.08 (459)	1 1/2" NPT/BSP	1.5 (38)	.37 (1.4)	122 (462)	.25 (6)	125 (8.6)
HDB2 TOP	22.19 (564)	15.5 (394)	16.81 (427)	9.12 (232)	20.88 (530)	2" NPT	2 (50)	.46 (1.7)	135 (511)	.38 (9)	125 (8.6)
HDB2 BOTTOM	23.25 (591)	15.5 (394)	16.81 (427)	3.44 (87)	15.19 (386)	2" NPT	2 (50)	.46 (1.7)	135 (511)	.38 (9)	125 (8.6)
HDB3 TOP	37.13 (943)	26 (661)	20.75 (527)	20 (509)	33.33 (848)	3" 125# ANSI	3 (75)	2.0 (7.6)	300 (1136)	.87 (22)	125 (8.6)
HDB3 BOTTOM	31.25 (794)	26 (661)	24.62 (625)	5.75 (146)	19.33 (492)	3" 125# ANSI	3 (75)	2.0 (7.6)	300 (1136)	.87 (22)	125 (8.6)
HDB4 TOP	37.88 (962)	26 (661)	23.75 (603)	20 (509)	33.33 (848)	4" 125# ANSI	4 (102)	2.0 (7.6)	300 (1136)	.87 (22)	125 (8.6)
HDB4 BOTTOM	31.25 (793)	26 (661)	27.5 (699)	5.75 (146)	19.33 (492)	4" 125# ANSI	4 (102)	2.0 (7.6)	300 (1136)	.87 (22)	125 (8.6)

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