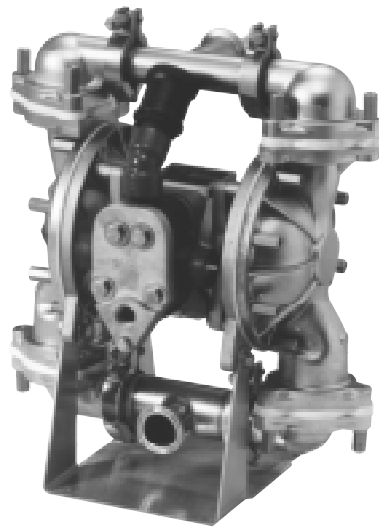


**WARREN
RUPP®**

Quality System
ISO9001 Certified

Environmental
Management System
ISO14001 Certified

IDEX
IDEX CORPORATION



SandPIPER®

BALL VALVE SSB1-A Type 3 DSB1-A Type 3

**1½" x 1½" Air-Powered
Double-Diaphragm
Sanitary Pump**

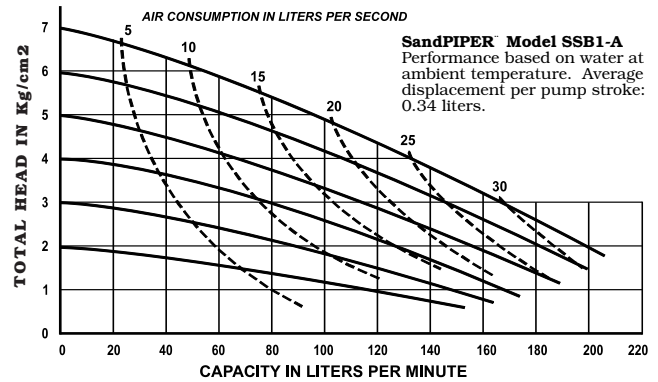
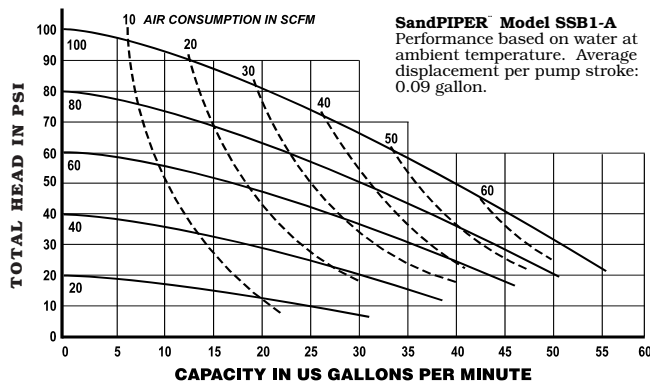
ENGINEERING, PERFORMANCE
& CONSTRUCTION DATA

INTAKE/DISCHARGE PIPE SIZE	CAPACITY	AIR VALVE	SOLIDS-HANDLING	HEADS UP TO
1½" (38mm) Sanitary Process Clamp Fittings	0 to 54 gallons per minute (0 to 204 liters per minute)	No-lube, no-stall design.	¼" (6mm)	125 psi or 289 ft. of water (8.8Kg/cm ² or 88 meters)

PERFORMANCE CURVES

(SandPIPER® pumps are designed to be powered only by compressed air)
Temperature Limit: 212°F - 100°C MAXIMUM

**This pump is USDA-Accepted for meat and poultry.
This pump is USDA Dairy Accepted when ordered as DSB1-A,
and fitted with leak detector 032-017-000, (110 v)
or 032-018-000 (220v).**



MATERIALS OF CONSTRUCTION

Model	Manifold	Outer Chamber	Inner Chamber	Outer Diaphragm Plate	Inner Diaphragm Plate	Intermediate Housing	Diaphragm Rod	Valve Seat	Hardware	Diaphragm	Ball Valve Material	Air Valve	Air Valve Cap	Shipping Weight (lbs)
SSB1-A	Manifold	Outer Chamber	Inner Chamber	Outer Diaphragm Plate	Inner Diaphragm Plate	Intermediate Housing	Diaphragm Rod	Valve Seat	Hardware	Diaphragm	Ball Valve Material	Air Valve	Air Valve Cap	Shipping Weight (lbs)
TF-3-SS	316SS	WR-S†	AL380DC◊	WR-S†	PS	AL380DC◊	416SS	FDA-N	302/304SS	FDA-N	FDA-N	PP	AL380DC◊	60
TY-3-SS	316SS	WR-S†	AL380DC◊	WR-S†	PS	AL380DC◊	416SS	FDA-I	302/304SS	FDA-I	FDA-I	PP	AL380DC◊	60
DSB1-A	Manifold	Outer Chamber	Inner Chamber	Outer Diaphragm Plate	Inner Diaphragm Plate	Intermediate Housing	Diaphragm Rod	Valve Seat	Hardware	Diaphragm	Ball Valve Material	Air Valve	Air Valve Cap	Shipping Weight (lbs)
TF-3-SS	G5	G5	AL380DC◊	G5	PS	AL380DC◊	416SS	FDA-N	302/304SS	FDA-N	FDA-N	PP	AL380DC◊	62

Meanings of Abbreviations:

† = Electropolished
◊ = Electroless Nickel Plated
AL = Aluminum

DC = Die Cast
FDA-I = Food Grade EPDM
FDA-N = Food Grade Nitrile

G5 = Grade 5 Dairy Finish
PP = Polypropylene - Glass Filled

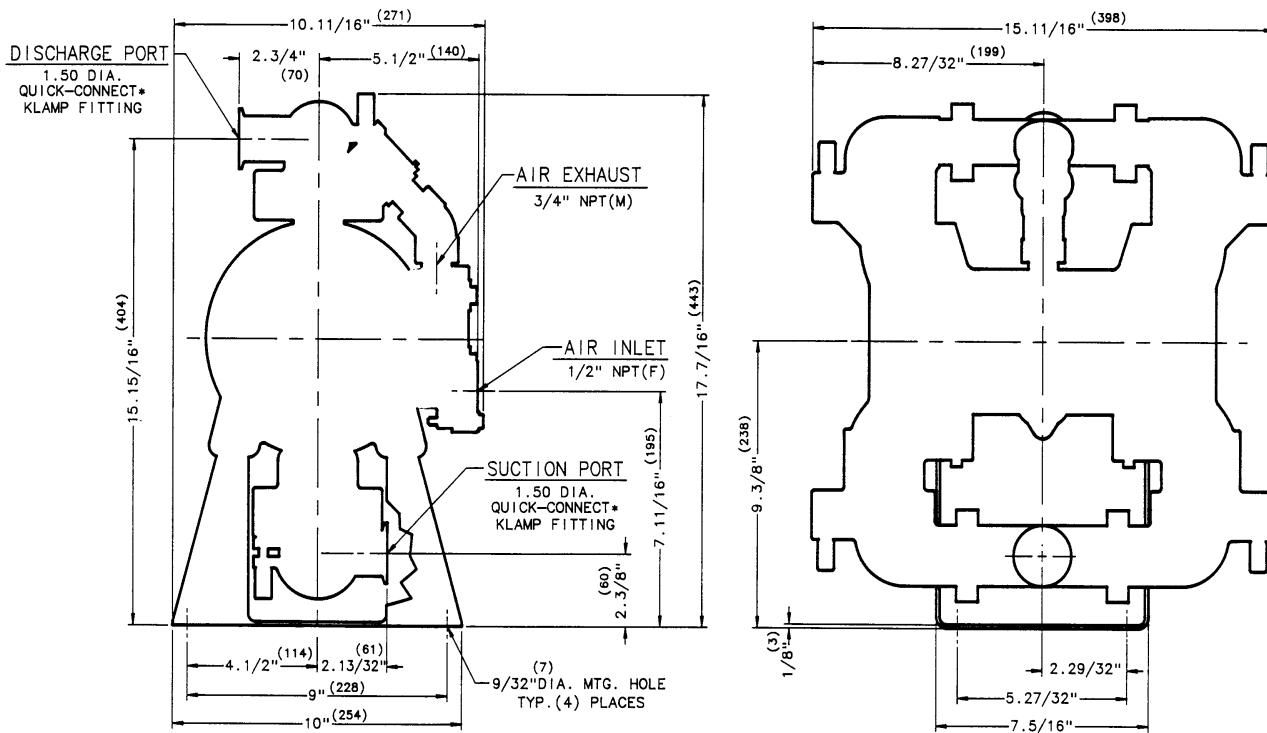
PS = Plated Steel
SS = Stainless Steel
WR-S = Alloy Type 316 S.S.

SSB1-A & DSB1-A BALL VALVE SANITARY



MATERIALS	Operating Temperatures		
	Maximum	Minimum	Optimum
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	50°F to 140°F 10°C to 60°C
EPDM Shows very good water and chemical resistance. Has poor resistance to oil and solvents, but is fair in ketones and alcohols.	212°F+ 100°C+	-10°F -23°C	50°F to 212°F 10°C to 100°C
WR-S Warren Rupp Alloy Type 316 Stainless Steel equal to or exceeding ASTM specification A743 CF-8M for corrosion resistant iron chromium, iron chromium nickel, and nickel based alloy castings for general applications. Commonly referred to as 316 Stainless Steel in the pump industry.			
For specific applications, always consult "Chemical Resistance Chart" Technical Bulletin.			

Dimensions are ± 1/8"
Figures in parenthesis = millimeters



* QUICK-CONNECT KLAMP FITTINGS ARE A REGISTERED TRADEMARK OF TCI-SUPERIOR.

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and fitted with leak detector 032-017-000, (110v) or
032-018-000(220v).**

**1 1/2" QUICK CONNECT SANITARY PROCESS CLAMP FITTINGS SUCTION AND DISCHARGE
1/2" NPT(F) AIR INLET PORT • 3/4" NPT(M) AIR EXHAUST PORT**