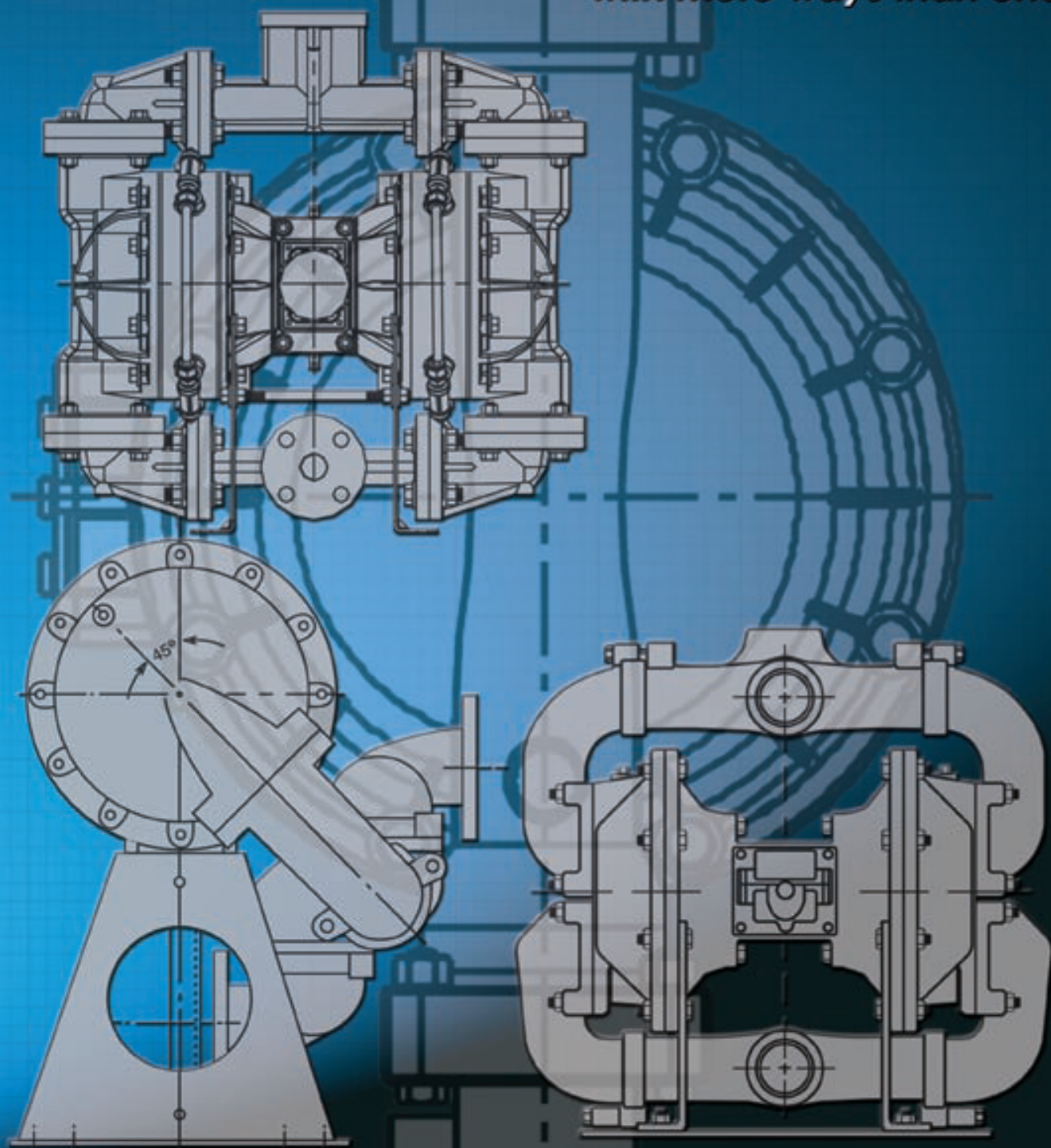


Discover

SANDPIPER® Pumping Solutions

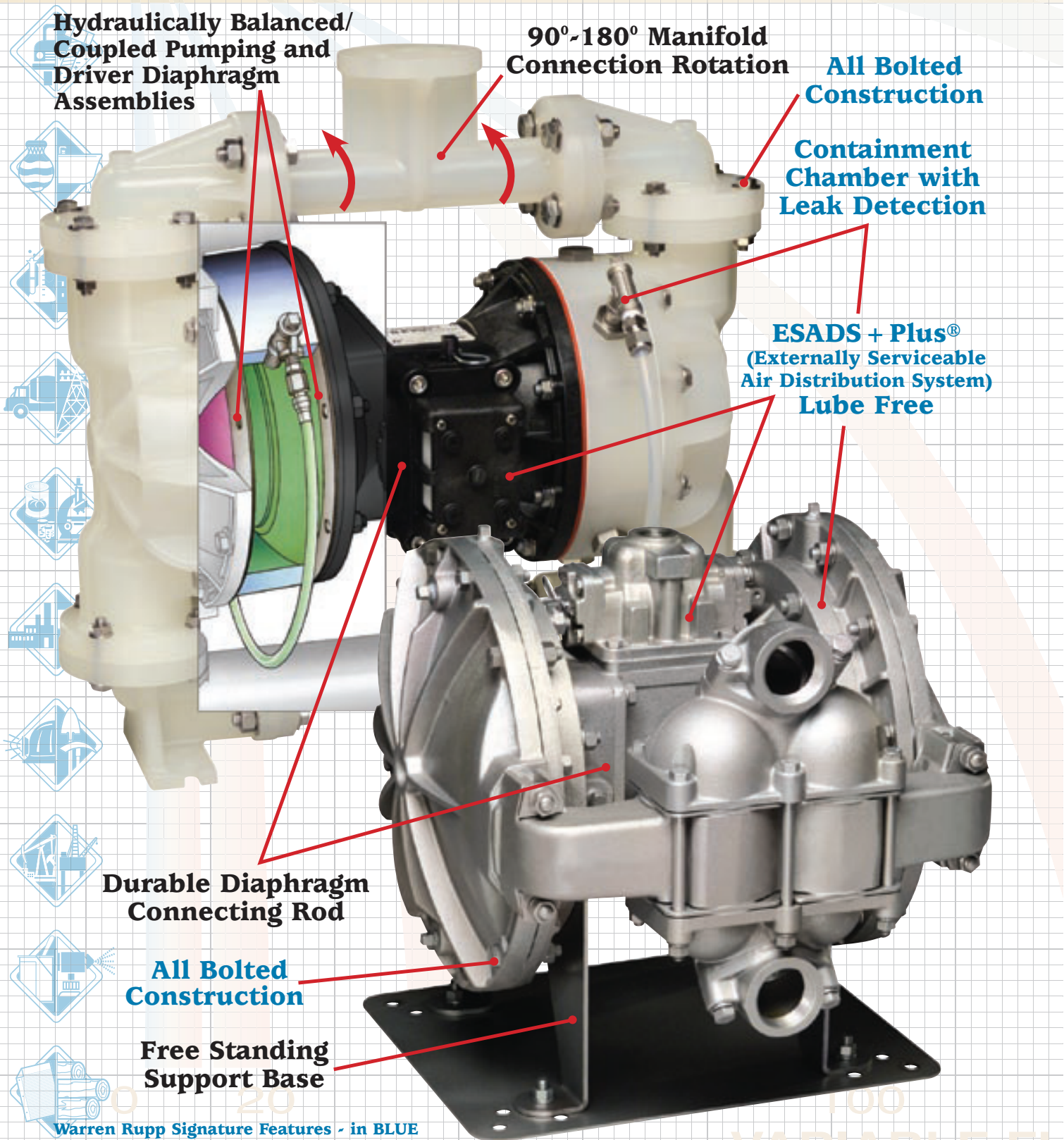
A WARREN RUPP PUMP BRAND

with more ways than one



100 PSI

CONTAINMENT DUTY BALL



**Hydraulically Balanced/
Coupled Pumping and
Driver Diaphragm
Assemblies**

**90°-180° Manifold
Connection Rotation**

**All Bolted
Construction**

**Containment
Chamber with
Leak Detection**

**ESADS + Plus®
(Externally Serviceable
Air Distribution System)
Lube Free**

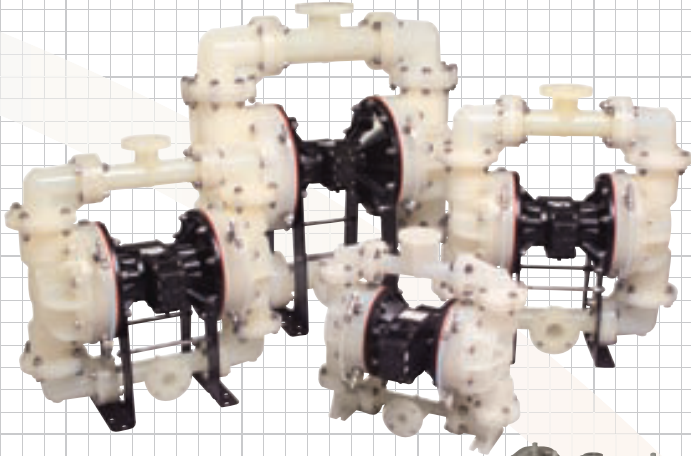
**Durable Diaphragm
Connecting Rod**

**All Bolted
Construction**

**Free Standing
Support Base**

Warren Rupp Signature Features - in BLUE

CONFIGURATION FEATURES



CONTAINMENT DUTY BALL

ESADS + Plus®

All Bolted Construction

Top Discharge

Ball Check Valves

Light Weight - Portable

Containment Chamber with Leak Detection

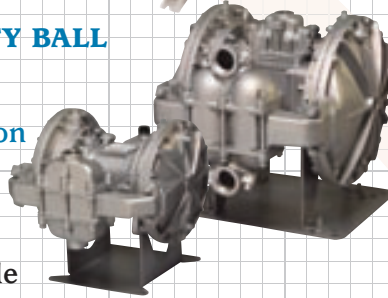
Durable Diaphragm Connecting Rod

90° - 180° Manifold Connection Rotation

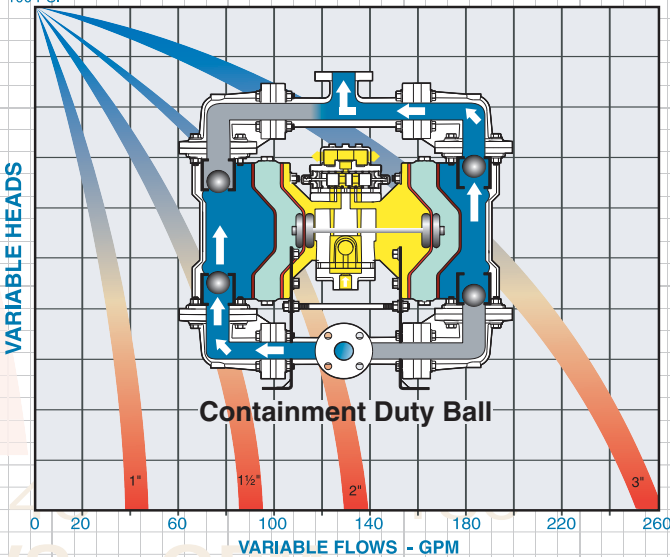
Solids Range + 1/4" (6mm) to 3/4" (18mm)

Dry Primes up to 18 Feet of Water

Free Standing Support Base



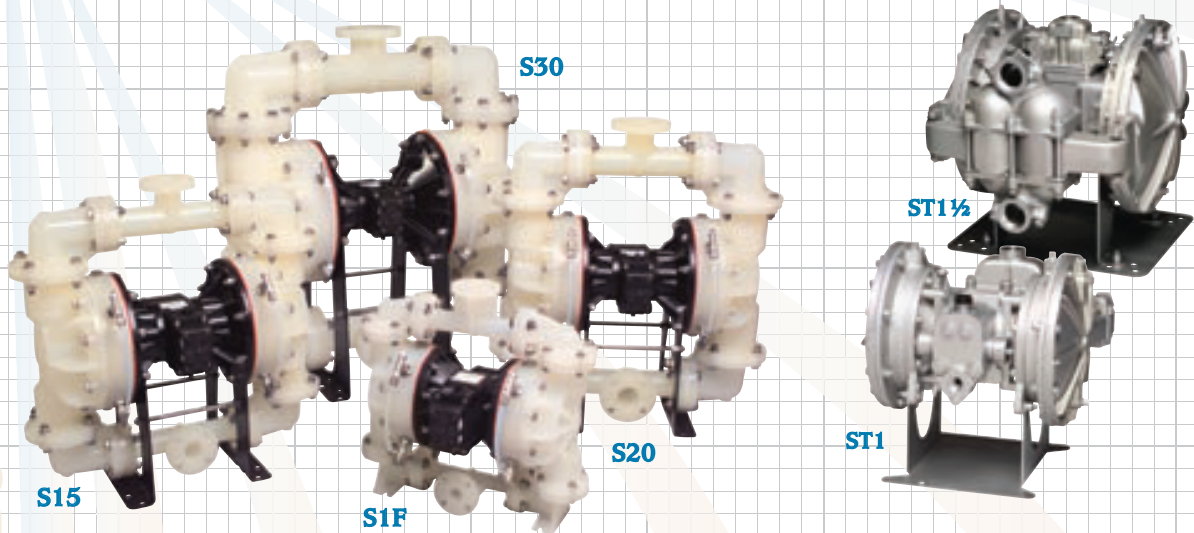
100 PSI



		Containment Duty Top Discharge	
		Metallic	Non-Metallic
Fluid Characteristics	Water (base reference)	A	A
	Suspended Solids	A	B
	Non-Suspended Solids	X	X
	Line Size Solids	X	X
	Sludge / Slurry	B	C
	High Viscosity (Flowable Fluids)	B	B
	Erosion / Abrasive Fluids	High Moderate Low	B B A
Corrosion	B	A	
Installation	Permanent	B	B
	Portable	A	A
	Containment / Prevention	A	A
	Flooded Suction	B	B
	Suction Lift	B	B
	Submerged	B	C
Duty	Intermittent / On-Demand	A	A
	Continuous	B	B
		A = Best Type B = Suitable	C = Caution (Limitations) X = Unsuitable

100 PSI

CONTAINMENT DUTY BALL



Containment Duty Non-Metallic Pumps are ideal for highly corrosive and hazardous chemical fluid requirements. All CD duty pumps are exclusively designed with containment chambers, hydraulically balanced/coupled pumping diaphragm and driver diaphragm assemblies. All containment chambers are designed to accommodate visual, mechanical and low voltage leak detection devices. CD pumps are constructed of Aluminum, Cast Iron, Stainless Steel, Alloy C, Polypropylene and Kynar with TPE (thermal plastic elastomers), PTFE options in diaphragms and check valves.

Containment Duty Pumps additional FEATURES and BENEFITS

Spill Containment

- Safe pumping of aggressive, unpredictable, hazardous or toxic liquids.
- Chambers keep accidental spills from entering the air valve, protecting plant environment and personnel.
- Allows the pump to complete the batch or operation in progress, before repair has to be done.

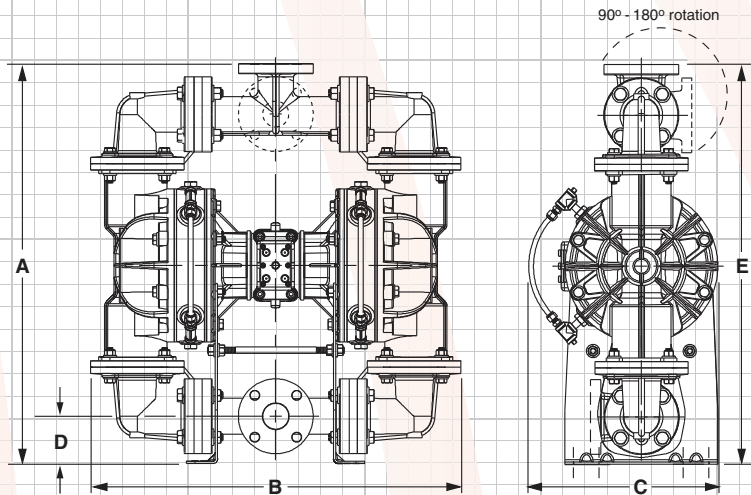
Hydraulically Balanced/Coupled Diaphragms

- Pumping diaphragms are balanced on suction and discharge stroke.
- Evenly distributed pressure over the surface of the diaphragm gives longer flex life.

Save Money and Downtime

- Protects air valve parts from contamination, meaning fewer service parts and less maintenance time.
- Longer flex life of the diaphragm means less frequent routine servicing.

Leak Detection - See page 41



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:								
	inches (mm)	inches (mm)	inches (mm)	Suction	Discharge							
ST1-A/ST25A	4 13/32 (366)	14 17/32 (369)	14 9/32 (363)	5 1/4 (133)	13 (330)		1" NPT/BSP	1 (25)	.09 (1.34)	42 (159)	.25 (6)	125 (8.6)
ST1 1/2-A/ST40A	17 1/2 (445)	16 1/2 (419)	18 5/8 (473)	5 9/32 (134)	15 15/64 (398)	7	1 1/2" NPT/BSP	1.5 (40)	30 (1.14)	90 (340)	.25 (6)	125 (8.6)
S1F	20 3/4 (527)	21 3/4 (553)	12 1/16 (306)	2 1/2 (64)	20 3/4 (527)	1" 125	# ANSI	1 (25)	.17 (64)	45 (170)	.28 (6)	100 (6.9)
S15	28 11/16 (729)	28 5/8 (728)	15 1/4 (387)	3 1/2 (89)	28 11/16 (729)	1	1/2" 125# ANSI	1.5 (40)	.36 (1.36)	90 (340)	.47 (12)	100 (6.9)
S20	32 1/16 (814)	29 3/8 (746)	15 1/4 (387)	3 13/16 (96)	32 1/16 (814)	2	" 125# ANSI	2 (50)	.36 (1.36)	150 (568)	.66 (17)	100 (6.9)
S30	40 5/8 (1032)	37 15/16 (964)	19 1/8 (498)	4 7/8 (124)	40 5/8 (1032)		3" 125# ANSI	3 (80)	.9 (3.41)	230 (901)	.71 (18)	100 (6.9)