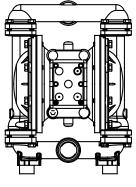


Quality System ISO9001 Certified

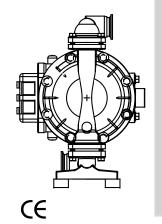
Environmental Management System ISO14001 Certified





U.S. Patent #5,996,627 & 6,241,487 Other U.S. Patents Applied for





# **T1F** Metallic FDA Compliant Design Level 1 Ball Valve

Air-Operated Double Diaphragm Pump

ENGINEERING, PERFORMANCE & CONSTRUCTION DATA

Performance based on the following: elastomer fitted pump, flooded suction, water at ambient conditions.  The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.  SCFM (M³/hr)  7 100 5(00) SCFM (M³/hr)  6 80 80 15(00) 80 PSI (3.08 Bar)  30(51) 35(00)  SCFM (M³/hr)  40(68)  SUBJECTION OF SI (4.08 Bar)  40(68)	INTAKE/DISCHARGE PIPE SIZE 1½" Sanitary Clamp Fitting	CAPACITY 0 to 45 gallons per minute (0 to 170 liters per minute)	<b>AIR VALVE</b> No-lube, no-stall design	SOLIDS-HANDLING Up to .25 in. (6mm)	HEADS UP TO 125 psi or 289 ft. of water (8.6 Kg/cm² or 86 meters)	DISPLACEMENT/STROKE .11 Gallon / .42 liter
2 - 20 PSI (1.36 Bar) Air Inlet Pressure 30 - 9.1 25 7.6 4.5 10 - 3	7 100 10(1) 6 80 80 PSI (6.64 5 - 60 60 PSI (4.06 2 - 20 20 PSI (1.36 0 0 5	The use of other m FM (M³/hr) 7) 15(00) 20(34) 28 8 Bar) 6 Bar) Air Inlet Pressure 10 15 0 40 6	5(00)  20  U.S. Gallon 0 80  Liters p	hydraulic conditions may  (00)  40(68)  25 30 3 s per minute  100 120 er minute  ACITY	result in deviations in 35 40 160	SHEEKS of 5%.  WHSAN  SHEEK  30  9.1  7.6  6  4.5  10  5  1.5

## **Explanation of Pump Nomenclature**

#### T1F Metallic · Design Level 1 · Ball Valve

MODEL	Pump Brand	Pump Size	Check Valve Type	Design Level	Wetted Material	Diaphragm/ Check Valve Materials	Check Valve Seat	Non-Wetted Material Options	Porting Options	Pump Style	Pump Options	Shipping Kit Options	Weight lbs. (kg)
T1FB1S9SWTS600.	Т	1F	В	1	S	9	s	W	Т	S	6	00.	43 (20)
T1FB1SLSWTS600.	Т	1F	В	1	S	L	S	W	Т	S	6	00.	43 (20)
T1FB1SASWTS600.	Т	1F	В	1	S	Α	s	W	Т	S	6	00.	43 (20)

**Pump Brand** 

T= FDA Compliant

**Pump Size** 

1F=1"

**Check Valve Type** 

B= Ball

**Design Level** 

1= Design Level

**Wetted Material** S= Stainless Steel **Diaphragm Check Valve Materials** 

A= PTFE - FDA Nitrile/PTFE

L= FDA Santoprene/PTFE

9= FDA Nitrile/PTFE

**Check Valve Seat** 

S= Stainless Steel

T= PTFE

**Non-Wetted Material Options** 

W=White Epoxy Coated Aluminum w/Stainless Steel Hardware

**Porting Options** 

T= 11/2" Sanitary Clamp Fitting

**Pump Style** 

S= Standard

**Pump Options** 

♠ 6= Metal Muffler

A Kit Options

00.=None





Ex ANote: ATEX Compliant



#### CAUTION! The maximum pump operating temperature limit is 190°F(88°C):

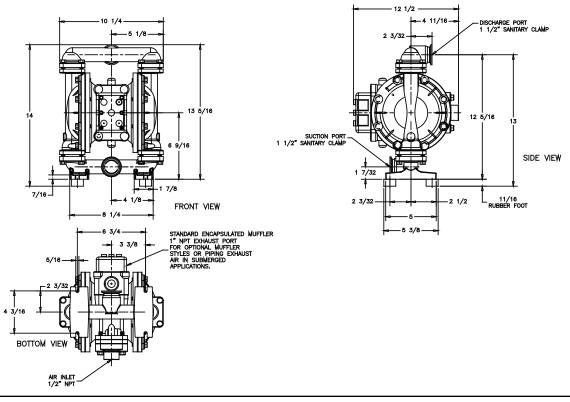
	Temperature Limits			
Materials	Maximum	Minimum		
<b>FDA Accepted White Nitrile</b> General purpose, oil-resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	190°F 88°C	-10°F -23°C		
<b>FDA Accepted Santoprene</b> <sup>®</sup> Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	275°F 135°C	-40°F -40°C		
<b>Virgin PTFE</b> Chemically inert, virtually impervious. Very few chemicals are known to react chemically 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 elevated temperatures.	220°F 104°C	-35°F -37°C		

For specific applications, always consult The Warren Rupp Chemical Resistance Chart

®Santoprene is a registered tradename of Monsanto Corporation.

### **Dimensions: T1F Metallic**

Dimensions in Inches Dimensional Tolerance: ±1/8"



Dimensions in Millimeters Dimensional Tolerance: ± 3mm

