



MODEL T2S

CLASS: Transfer chemical and solids handling

CONSTRUCTION: 316 Stainless Steel

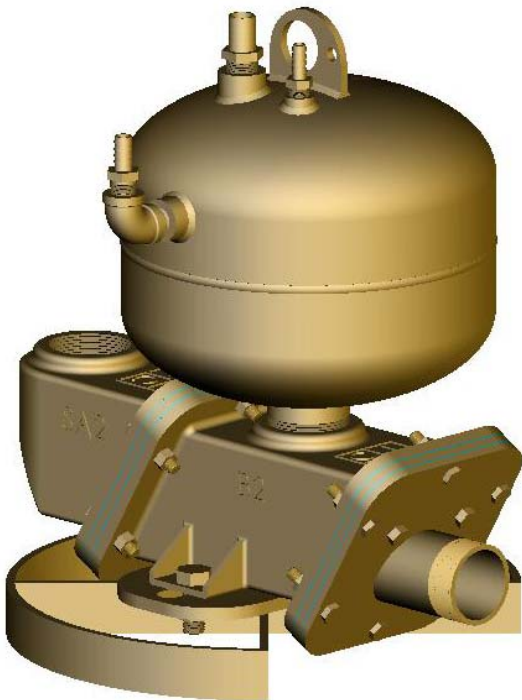
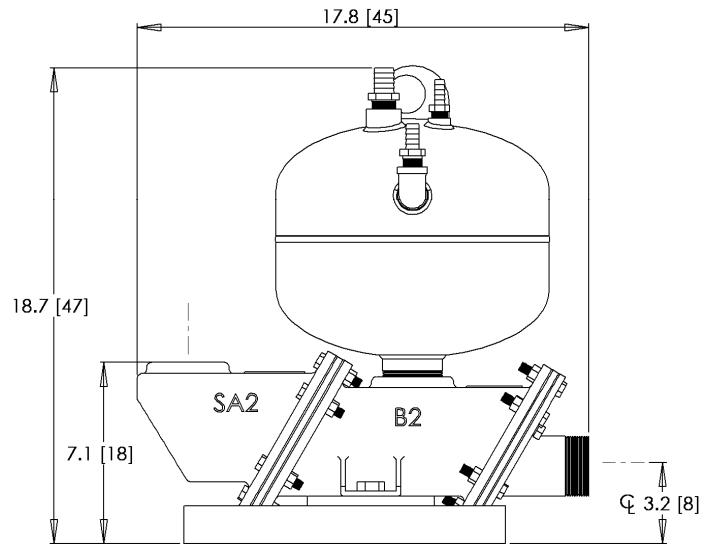
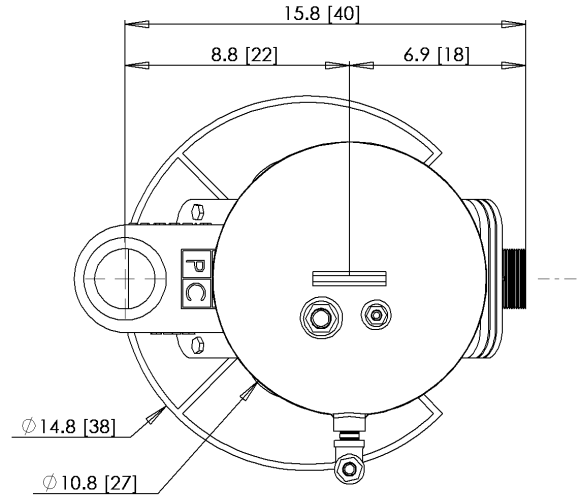
CAPACITY: 0-26 gpm [98 lpm]

DISCHARGE PRESSURE: 0-100 psi [6.9 Bar]

MAX SOLID: 2" [5 cm]

CONFIGURATION OPTIONS

- ALL-PNEUMATIC CONTROL (XP/explosion-proof and remote locations)
- ELECTRO-PNEUMATIC CONTROL (non-XP)
- GRAVITY FILLED
- FLOW INDUCED (vacuum assisted fill)
- HIGH TEMPERATURE (212F/100C)



APPLICATION EXAMPLES

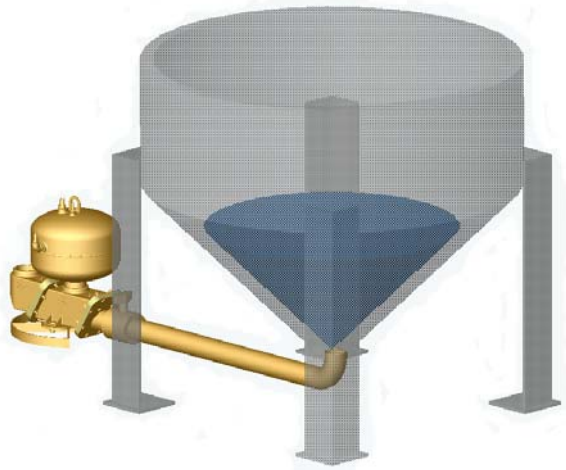
Chemical process and wastewater handling, acid-caustic clarifier sludge, diatomaceous earth slurry, secondary containment, drilling muds, solvents and extraction fluids, evaporator/vacuum distillers, knockout pots, packing plant wastes, boiler blow down, DAF sludge, oil/water separators, lapping compound, blood.

This pump will handle debris ranging from stringy to abrasive up to 2" diameter including slurries.

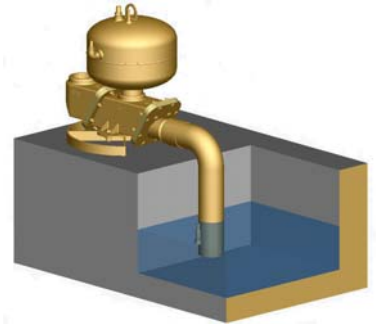
QUICK SPECS

- Weight: 58 lbs [24 kg]
- Stroke Volume: 2.6 gal [9.8 l]
- Operating Levels: 'Gravity' - 12" [30 cm]
Optional Suction Lift: 'Flow Induced' - 120" [3 m] maximum suction lift
(see reverse side for explanation details)
- Panel Required: either AP212 or SP310

See reverse side for Specification Details, Flow Curve and Air Consumption



Gravity operation (left) requires an operating level equal to or above the top of the pump (appr 16" above grade).
No compressed air is required for the fill stroke.



F2 flow inducement (above right) uses an air powered, vacuum generator on the exhaust valve of the control panel. It applies vacuum to the pump during the fill stroke to pull fluid up into the pump; 10 ft of lift is the recommended maximum.
*see note below chart for additional air consumption

Part# **T2S/** / - - -

SEAT MATERIAL

- N = nitrile (standard)
- V = viton
- T = teflon
- UHD = hard urethane
- E = epdm
- K = kynar

PANEL OPTIONS

- AP212G2 = all-pneumatic, gravity fed.
- SP310G2 = single probe, gravity fed.
- AP212F2 = all-pneumatic, flow induced.
- SP310F2-LLC = single probe, flow induced with level control.

Example:

T2S/V/AP212G2 = 2" 316SS transfer pump with viton seats, AP212G2 control panel.

To specify a pump select a control panel (required) and seat option. Nitrile (std) 15 ft airlines are provided.

Panel Requirements: Compressed air or dry gas, unlubricated, recommended 80 psi delivered through 3/4" pipe or equal (applies to all panels).

SP310 panels also require 110 vac (<1 A).

Valve seat selection:

- Nitrile - good all-purpose elastomer. Medium chemical, oil and solvent resistance, used up to 150°F.
- Viton - excellent resistance to oxidizers and solvents. Medium strength, used up to 250°F.
- Teflon - excellent chemical resistance to acids, bases and solvents. Lower cycle life, non-elastomeric, used up to 300°F.
- Hard Urethane - high durometer with good abrasion resistance with mild chemical resistance, used up to 150°F.
- EPDM - good heat and acid/base resistance but poor hydrocarbon resistance, used up to 300°F.
- PVDF (kynar) - excellent chemical resistance, toughness and resistance to cold flow (thermoplastic). Good cycle life and can be used up to 250°F.

MAXIMUM FLOW CURVE

with air consumption in SCFM (gravity mode)

HEAD meters	Operating Flow Capacity: <i>anywhere in shaded area.</i> Air consumption: pick closest cell to your flow & pressure match													
220 ft	67.1	3.3	6.6	9.9	13.2	16.5	19.8							
200 ft	61.0	3.0	6.1	9.1	12.2	15.2	18.2							
180 ft	54.9	2.8	5.6	8.3	11.1	13.9	16.7							
160 ft	48.8	2.5	5.0	7.6	10.1	12.6	15.1							
140 ft	42.7	2.3	4.5	6.8	9.0	11.3	13.6	15.8	18.1	20.3	22.6	24.9	27.1	
120 ft	36.6	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	
100 ft	30.5	1.7	3.5	5.2	7.0	8.7	10.4	12.2	13.9	15.7	17.4	19.1	20.9	
80 ft	24.4	1.5	3.0	4.4	5.9	7.4	8.9	10.4	11.8	13.3	14.8	16.3	17.8	
60 ft	18.3	1.2	2.4	3.7	4.9	6.1	7.3	8.5	9.8	11.0	12.2	13.4	14.6	
40 ft	12.2	1.0	1.9	2.9	3.8	4.8	5.8	6.7	7.7	8.6	9.6	10.6	11.5	
20 ft	6.1	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7.0	7.7	8.4	
10 ft	3.0	0.6	1.1	1.7	2.3	2.9	3.4	4.0	4.6	5.1	5.7	6.3	6.9	
GPM	3	6	9	12	15	18	21	24	27	30	33	36		
lpm	11	23	34	45	57	68	79	91	102	114	125	136		

SP310F2-LLC Panel



Example 1 (gravity fill): 21 gpm @ 20 ft TDH requires 4.9 SCFM

*Note for flow inducement: add 0.45 x gpm to the air consumption.

Example 2 (flow induced): 12 gpm @ 20 ft using suction lift. Since 12 gpm at 20 ft uses 2.8 scfm (from chart). Then add 0.45 scfm per gpm to the consumption, in this case 12 x 0.45scfm or 5.4 scfm. The total consumption is 2.8+5.4=8.2 scfm.