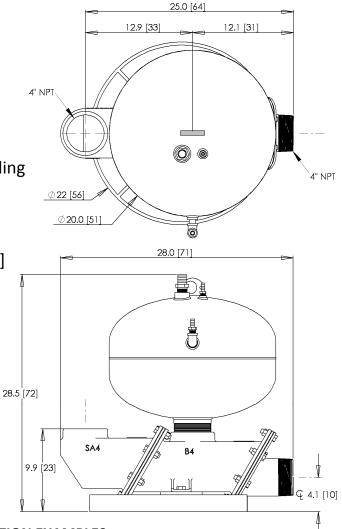


MODEL T4S

CLASS: Transfer chemical and solids handling CONSTRUCTION: 316 Stainless Steel CAPACITY: 0-95 gpm [360 lpm] DISCHARGE PRESSURE: 0-100 psi [6.9 Bar] MAX SOLID: 3.75" [9.5 cm]

CONFIGURATION OPTIONS

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





APPLICATION EXAMPLES

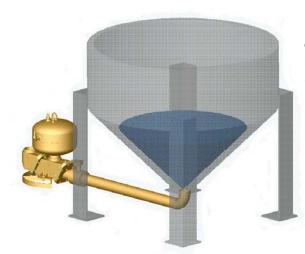
Chemical process and wastewater handling, acid-caustic clarifier sludge, diatomaceous earth slurry, secondary containment, drilling muds, solvents and extraction fluids, chicken offals, spinal cords/brains, knockout pots, packing plant wastes, boiler blow down, DAF sludge, oil/water separators, lapping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

This pump will handle debris ranging from stringy to abrasive up to 3.75" diameter including slurries.

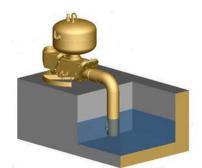
QUICK SPECS

- Weight: 154 lbs [70 kg]
- Stroke Volume: 13.5 gal [51 l]
- Operating Levels: 'Gravity' 24" [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 24" above grade). No compressed air is required for the fill stroke.



F4 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# **T4S/_/**_

SEAT MATERIAL

N = nitrile (standard) V = vitonUHD = hard urethane

seat option. Nitrile (std) 15 ft airlines are provided. PANEL OPTIONS AP212G4 = all-pneumatic, gravity fed. SP310G4 = single probe, gravity fed. AP212F4 = all-pneumatic, flow induced.

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).

T = teflon E = epdm

Valve seat selection:

solvent resistance, used up to 150°F.

strength, used up to 250°F.

Viton - excellent resistance to oxidizers and solvents. Medium

solvents. Lower cycle life, non-elastomeric, used up to 300°F.

Teflon - excellent chemical resistance to acids, bases and

K = kynar

SP310F4-LLC = single probe, flow induced with level control. Example:

T4C/N/AP212G4 = 4" steel transfer pump with nitrile seats, AP212G4 control panel.

To specify a pump select a control panel (required) and

Hard Urethane - high durometer with good abrasion resistance Nitrile - good all-purpose elastomer. Medium chemical, oil and 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.

HEAD meters		w	with air consumption in SCFM (gravity mode)									
220 ft	67.1	11	22	33	44	55	<u>Oper</u>	ating F	low Ca	apacity	<u>/</u> :	
200 ft	61.0	10	20	30	41	51	anywhere in shaded area.					
180 ft	54.9	9	19	28	37	46	Air consumption: pick					
160 ft	48.8	8	17	25	34	42	closest cell to your flow &					
140 ft	42.7	8	15	23	30	38	pressure					
120 ft	36.6	7	13	20	27	33	40	47	53	60	67	
100 ft	30.5	6	12	17	23	29	35	41	46	52	58	
80 ft	24.4	5	10	15	20	25	30	35	39	44	49	
60 ft	18.3	4	8	12	16	20	24	28	33	37	41	
40 ft	12.2	3	6	10	13	16	19	22	26	29	32	
20 ft	6.1	2	5	7	9	12	14	16	19	21	23	
10 ft	3.0	2	4	6	8	10	11	13	15	17	19	
GPM		10	20	30	40	50	60	70	80	90	100	
lpm		38	76	114	151	189	227	265	303	341	379	

MAXIMUM FLOW CURVE

SP310F3-LLC Panel



Example 1 (gravity fill): 60 gpm @ 20 ft TDH requires 14 scfm

*Note for flow inducement: add 0.37 x gpm to the air consumption.

Example 2 (flow induced): 60 gpm @ 20 ft using suction lift. Since 60 gpm at 20 ft uses 14 scfm (from chart), then add 0.37 scfm per gpm to the consumption; in this case 60 x 0.37 or 22.2 scfm. The total consumption is 14+22.2=36.2 scfm.