



MODEL S4X3S DUAL

CLASS: Submersed chemical and solids handling

CONSTRUCTION: Stainless Steel

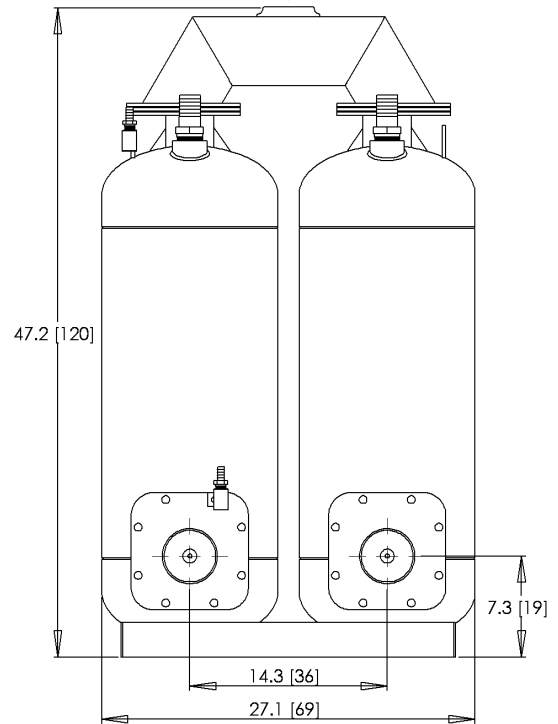
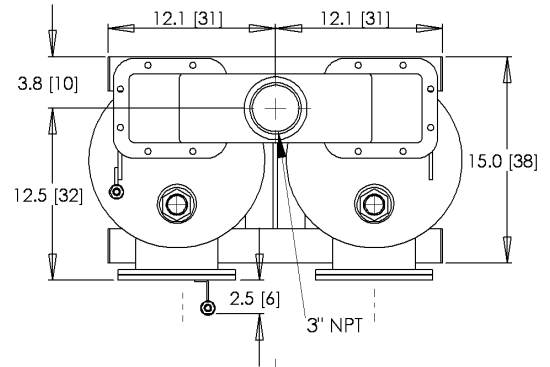
CAPACITY: 0-210 gpm [800 lpm]

DISCHARGE PRESSURE: 0-100 psi [6.9 Bar]

MAX SOLID: 3" [7.6 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

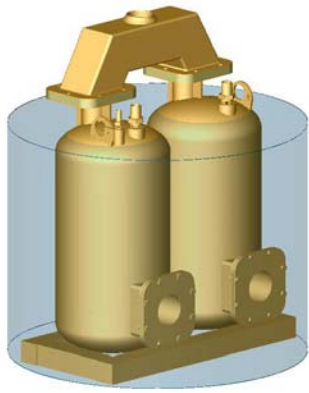
Sumps for: chemical process wastewater, acid/caustic wash-down, tank farms, secondary containment, solvents and extraction fluids, coal yards/belts, mining solids, packing plant waste, chicken offals, grains/mash, blood, boiler blow down, hot tallow, raw sewage, remote compressor stations, solvents/oils.

This pump will handle debris ranging from stringy to abrasive, up to 3" diameter including slurries.

QUICK SPECS

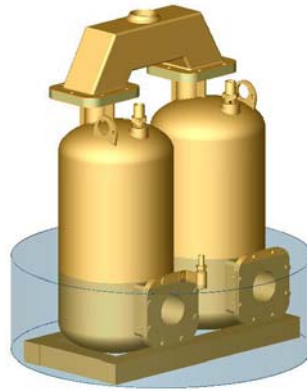
- Weight: 329 lbs [150 kg]
- Stroke Volume: 32 gal [122 l]
- Operating Levels: 'Flow Induced' - 12" [30 cm], 'Gravity' - 38" [97 cm] (see reverse side for explanation)
- Panel Required: either AP300-Dual or EP250-Dual

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



Gravity operation requires an operating level equal to the top of the pump (appr 38”).

No compressed air is required for the fill stroke.



F4L flow inducement uses a compressed air powered, vacuum generator mounted to the exhaust valve of the control panel. It applies vacuum to the pump during the fill stroke to lower the operating level (to appr 12”).
*see note below chart for additional air consumption

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

Part# **S4X3SDUAL/_/_/_**

SEAT MATERIAL

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

PANEL OPTIONS

- AP300G4(4X3)-Dual = all-pneumatic, gravity fed.
- EP250G4-(4X3)Dual = electro-pneumatic, gravity fed.
- AP300F4L(4X3)-Dual = all-pneumatic, low vacuum flow induced.
- EP250F4L(4X3)-Dual = electro-pneumatic, low vacuum flow induced.

Example:

S4X3SDUAL/N/AP300G4(4X3)-Dual = 4X3” 304SS dual chamber submersible pump with nitrile seats, AP300G4(4X3)-Dual control panel.

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

EP250 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	20	40	60	80	100	120	140	160	180	200	220	240
220 ft 67.1	22	44	66	88	110	132	154	176	198	220	242	264
200 ft 61.0	20	41	61	81	101	122	142	162	182	202	222	242
180 ft 54.9	19	37	56	74	93	111	130	148	166	184	202	220
160 ft 48.8	17	34	50	67	84	101	118	135	152	169	186	203
140 ft 42.7	15	30	45	60	75	90	105	120	136	151	166	181
120 ft 36.6	13	27	40	53	67	80	93	107	120	133	147	160
100 ft 30.5	12	23	35	46	58	70	81	93	104	116	128	139
80 ft 24.4	10	20	30	39	49	59	69	79	89	99	109	118
60 ft 18.3	8	16	24	33	41	49	57	65	73	81	89	98
40 ft 12.2	6	13	19	26	32	38	45	51	58	64	70	77
20 ft 6.1	5	9	14	19	23	28	33	37	42	47	51	56
10 ft 3.0	4	8	11	15	19	23	27	30	34	38	42	46
GPM	20	40	60	80	100	120	140	160	180	200	220	240
lpm	76	151	227	303	379	454	530	606	681	757	833	908

Operating Flow Capacity: anywhere in shaded area.
Air consumption: pick closest cell to your flow & pressure

AP300G4(4X3)-Dual Panel



Example 1 (gravity fill): 180 gpm @ 20 ft TDH requires 42 scfm

*Note for flow inducement: add 0.14 x gpm to the air consumption.

Example 2 (flow induced): 180 gpm @ 20 ft. Since 180 gpm @ 20 ft uses 42 scfm, then add 0.14 scfm per gpm to that air consumption; in this case 180 x 0.14 scfm or 25.2 scfm. The total consumption is 42 + 25.2 = 67.2 scfm.