



MODEL S6X4S DUAL

CLASS: Submersed chemical and solids handling

CONSTRUCTION: Stainless Steel

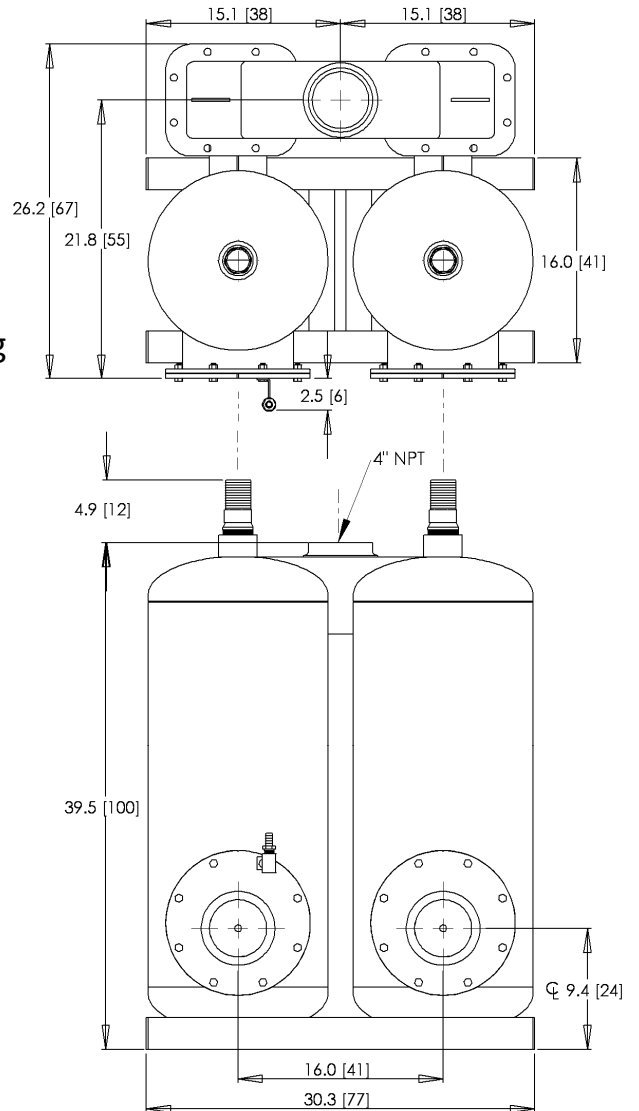
CAPACITY: 0-400 gpm [1,524 lpm]

DISCHARGE PRESSURE: 0-100 psi [6.9 Bar]

MAX SOLID: 3.75" [9.5 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

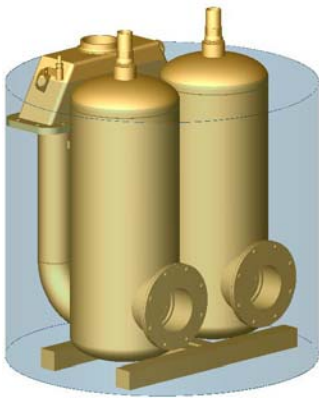
Sumps for: chemical process wastewater, acid/caustic wash-down, tank farms, secondary containment, solvents and extraction fluids, coal yards/belts, mining solids, packing plant waste, chicken offals, grains/mash, blood, boiler blow down, hot tallow, raw sewage, remote compressor stations, solvents/oils.

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

QUICK SPECS

- Weight: 390 lbs [177 kg]
- Stroke Volume: 40 gal [151 l]
- Operating Levels: 'Flow Induced' - 15" [38 cm], 'Gravity' - 38" [97 cm] (see reverse side for explanation)
- Panel Required: either AP300 or EP250

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.



F6L 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 15").

*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# **S6X4SDUAL/** / - - -

SEAT MATERIAL

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

PANEL OPTIONS

- AP300G6-Dual = all-pneumatic, gravity fed.
- EP250G6-Dual = electro-pneumatic, gravity fed.
- AP300F6L-Dual = all-pneumatic, low vacuum flow induced.
- EP250F6L-Dual = electro-pneumatic, low vacuum flow induced.

Example:

S6X4SDUAL/N/AP300G6-Dual = 6X4" 304SS dual chamber submersible pump with nitrile seats, AP300G6-Dual control panel.

Panel Requirements: Compressed air or dry gas, unlubricated, recommended 80 psi delivered through 1-1/4" 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 | 44 | 88 | 132 | 176 | 220 | 264 | 308 | Operating Flow Capacity: | | | | | | | | | | |
|-------------|-----------|-----------|------------|------------|------------|------------|------------|--------------------------|--|------------|------------|------------|-----|-----|-----|-----|-----|-----|
| 220 | 67.1 | 44 | 88 | 132 | 176 | 220 | 264 | 308 | <i>anywhere in shaded area.</i> <i>Air consumption: pick</i> <i>closest cell to your flow &</i> <i>pressure</i> | | | | | | | | | |
| 200 | 61.0 | 41 | 81 | 122 | 162 | 203 | 243 | 284 | | | | | | | | | | |
| 180 | 54.9 | 37 | 74 | 111 | 148 | 185 | 222 | 259 | | | | | | | | | | |
| 160 | 48.8 | 34 | 67 | 101 | 134 | 168 | 202 | 235 | | | | | | | | | | |
| 140 | 42.7 | 30 | 60 | 90 | 120 | 151 | 181 | 211 | | | | | | | | | | |
| 120 | 36.6 | 27 | 53 | 80 | 107 | 133 | 160 | 187 | | | | | | 213 | 240 | 267 | 293 | 320 |
| 100 | 30.5 | 23 | 46 | 70 | 93 | 116 | 139 | 162 | | | | | | 186 | 209 | 232 | 255 | 278 |
| 80 | 24.4 | 20 | 39 | 59 | 79 | 99 | 118 | 138 | | | | | | 158 | 178 | 197 | 217 | 237 |
| 60 | 18.3 | 16 | 33 | 49 | 65 | 81 | 98 | 114 | | | | | | 130 | 146 | 163 | 179 | 195 |
| 40 | 12.2 | 13 | 26 | 38 | 51 | 64 | 77 | 90 | | | | | | 102 | 115 | 128 | 141 | 154 |
| 20 | 6.1 | 9 | 19 | 28 | 37 | 47 | 56 | 65 | 75 | 84 | 93 | 103 | 112 | | | | | |
| 10 | 3.0 | 8 | 15 | 23 | 30 | 38 | 46 | 53 | 61 | 69 | 76 | 84 | 91 | | | | | |
| GPM | 40 | 80 | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | | | | | | |
| lpm | 151 | 303 | 454 | 606 | 757 | 908 | 1060 | 1211 | 1363 | 1514 | 1665 | 1817 | | | | | | |

EP250F4L-Dual Panel



Example 1 (gravity fill): 320 gpm @ 20 ft TDH requires 75 scfm

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

Example 2 (flow induced): 320 gpm @ 20 ft. Since 320 gpm @ 20 ft uses 75 scfm, then add 0.06 scfm per gpm to the air consumption, in this case 320 x 0.14 scfm, or 44.8 scfm. The total consumption is 75 + 44.8 = 119.8 scfm