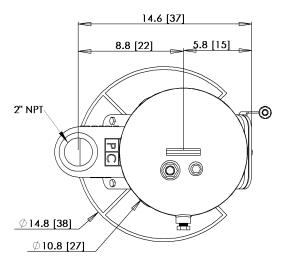


MODEL S2C

CLASS: Submersed solids handling CONSTRUCTION: Carbon Steel CAPACITY: 0-25 gpm [95 lpm] DISCHARGE PRESSURE: 0-100 psi [6.9 Bar] MAX SOLID: 2" [5 cm]



18.2 [46]

B2

Q 3.7 [9]



- 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

7.1 [18]

18.7 [47]

Sumps for: wash-down, tank farms, machining chips/ turnings coolant, drilling mud, truck docks, rail car unloading, grains/mash, coal yards/belts, mine dewatering, packing plant waste, hot tallow, remote compressor stations, boiler blow down, solvents/oils.

SA2

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

QUICK SPECS

- Weight: 54 lbs [24 kg]
- Stroke Volume: 2.6 gal [9.8 l]
- Operating Levels: 'Flow Induced' 7"[18 cm], 'Gravity' 16" [41 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 16").

No compressed air is required for the fill stroke.



F2L 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 7"). *see note below chart for additional air consumption

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).

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

Part# S2C/ /

PANEL OPTIONS

SEAT MATERIAL N = nitrile (standard) AP300G2 = all-pneumatic, gravity fed. V = viton EP250G2 = electro-pneumatic, gravity fed. T = teflon AP300F2L = all-pneumatic, low vacuum flow induced. UHD = hard urethane EP250F2L = electro-pneumatic, low vacuum flow induced. E = epdmExample: K = kynar S2C/N/AP300G2 = 2" steel submersible pump with nitrile seats, AP300G2 control panel.

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 and 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		with air consumption in SCFM (gravity mode)											
220 ft	67.1	3.3	6.6	9.9	13.2	46.5	19.8	Operating Flow Capacity:					
200 ft	61.0	3.0	6.1	9.1	12.2	15.2	18.2	anywhere in shaded area.					
180 ft	54.9	2.8	5.6	8.3	11.1	13\9	16.7	Air consumption: pick closest cell					
160 ft	48.8	2.5	5.0	7.6	10.1	12.6	15.1	to your flow & pressure match					
140 ft	42.7	2.3	4.5	6.8	9.0	11.3	\13.6						
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

MAXIMUM FLOW CURVE

AP300F2L Panel



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

*Note for flow inducement: add 0.2 x gpm to the air consumption.

Example 2 (flow induced): 21 gpm @ 20 ft. Since 21 gpm @ 20 ft uses 4.9 scfm, then add 0.2 scfm per gpm to that air consumption; in this case 21 x 0.2 scfm or 4.2 scfm. The total consumption is 4.9 + 4.2 = 9.1 scfm.