

# Float Data

See tables 1, 2, and 3.

**Table 1. Ball Float Data**

S30400 (304 STAINLESS STEEL) <sup>(1)</sup>							
Diameter, Inch	Spud Size, Inch	Nominal Weight, lb	Volume, Inch <sup>3</sup>	Buoyant Force, Half Submerged in Water at 60°F <sup>(2)</sup> , lb	Working Pressure at 75°F, psig	Wall Thickness, Inch	Part Number
2-1/2	1/8	0.22	8	0.15	1000	0.038	1B110736022
4-1/2	1/8	0.63	48	0.87	450	0.038	1D7123X0012
	3/8	0.80 1.00	48 48	0.87 0.87	450 700	0.038 0.050	1B8305X0012 1B2741X0012
5	3/8	0.88	66	1.19	400	0.038	1B108636022
6	3/8	1.64	113	2.04	450	0.050	1A424236022
7	3/8	2.24	180	3.25	350	0.050	1B274036022
7-3/4	3/8	2.60	244	4.40	350	0.050	1A424336022
		3.96	244	4.40	600	0.078	1A424536022
9-3/4	3/8	6.23	485	8.75	450	0.078	1A424636022
12	3/8	9.98	905	16.30	425	0.078	17A4797X012

1. See table 3 for working pressures above 75°F.  
2. Find the buoyant force for other fluids and water at other temperatures by multiplying the buoyant force given in the table by the specific gravity of the new fluid.

**Table 2. Axial Ball Float Data - S30400 (304 Stainless Steel)**

Diameter, Inch	Total Weight, lb ± 10%	Volume, Inch <sup>3</sup>	Buoyant Force, Half Submerged in Water at 60°F <sup>(1)</sup> , lb	Working Pressure at 75°F <sup>(2)</sup> , psig	Wall Thickness, Inch	Tube Size, Inch	Part Number
7-3/4	4.38	244	4.40	600	0.078	3/4	2E761238992
8	5.25	260	4.70	600	0.078	3/4	2D861536022
	5.25	260	4.70	600	0.078	1-1/4	2B2872X0012
9-3/4	7.5	485	8.75	450	0.078	1-1/4	2E7962X0012
10	7.5	515	9.30	400	0.078	1-1/4	2B286236022
12	11.38	905	16.30	350	0.078	1-1/4	3B4828X0012

1. Find the buoyant force for other fluids and water at other temperatures by multiplying the buoyant force given in the table by the specific gravity of the new fluid.  
2. See table 3 for working pressures above 75°F.

**Table 3. Working Pressure/Temperature Relationship (S30400 ball floats)**

Temperature, °F	Yield Point, psi	Correction Factor <sup>(1)</sup>
75	38,000	1.0
212	31,080	0.82
392	25,310	0.67
572	23,000	0.61
752	21,640	0.57
1000	19,000	0.51

1. Decrease the allowable working pressure at a temperature above 75°F by multiplying the working pressure at 75°F by the correction factor shown above.



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