

Precision Underwater Positioner Weight and Balance Sheet

W&B(PUP)

date: 19-Mar-03
rev: A
revised by: kani

	lbs.		x	y	z
Weight in Air	198.40	CG Location	198.40	396.80	595.20
Weight in Water	(54.40)	CB Location	(54.40)	(108.79)	(163.19)
Delta	144.00	CB/CG Separation	252.80	505.59	758.39

Water Density 64.00 Lbs/cuft
PUP Mass Displaced Volume 2.25 cuft.
Slugs

							Location of Part			Moments in Air			Moments in Water		
Component Description	Component Class	Quantity	Weight-Air (lbs)	Air Wgt Extension	Displacement (cubic inches)	Weight in Water (lbs)	X location (inches)	Y location (inches)	Z Location (inches)	X moment (inch lbs.)	Y moment (inch lbs.)	Z moment (inch lbs.)	X moment (inch lbs.)	Y moment (inch lbs.)	Z moment (inch lbs.)
Base top	Structure	1	19.80	19.80	202.30	(12.29)	1.00	2.00	3.00	19.80	39.60	59.40	(12.29)	(24.58)	(36.87)
base leg-1	Structure	1	1.60	1.60	16.40	(0.99)	1.00	2.00	3.00	1.60	3.20	4.80	(0.99)	(1.98)	(2.97)
base leg-2	Structure	1	1.60	1.60	16.40	(0.99)	1.00	2.00	3.00	1.60	3.20	4.80	(0.99)	(1.98)	(2.97)
base leg-3	Structure	1	1.40	1.40	14.00	(0.88)	1.00	2.00	3.00	1.40	2.80	4.20	(0.88)	(1.76)	(2.64)
Exlar Vert Act	Actuation	1	25.00	25.00	135.00	(19.99)	1.00	2.00	3.00	25.00	50.00	75.00	(19.99)	(39.98)	(59.97)
Exlar Horz Act.	Actuation	1	25.00	25.00	135.00	(19.99)	1.00	2.00	3.00	25.00	50.00	75.00	(19.99)	(39.98)	(59.97)
PH Housing	1 ATM	1	45.00	45.00	308.00	(33.57)	1.00	2.00	3.00	45.00	90.00	135.00	(33.57)	(67.13)	(100.70)
Glass Instr Housing	1 ATM	1	39.00	39.00	2572.00	56.48	1.00	2.00	3.00	39.00	78.00	117.00	56.48	112.96	169.44
PUP Remote Head	Instrument	1	40.00	40.00	480.00	(22.18)	1.00	2.00	3.00	40.00	80.00	120.00	(22.18)	(44.36)	(66.54)
		1	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00
		1	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00
		1	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00
		1	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00
		1	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00
		1	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00
		1	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00
		1	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00
		1	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00
		1	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTALS			198.4	198.4	3879.1	(54.40)				198.40	396.80	595.20	(54.40)	(108.79)	(163.19)