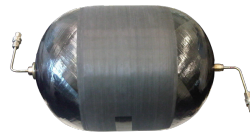


S-XTA / 40-120l Family Xenon Tank



MEOP [bar]	XeHPV 186			HeHPV, N2HPV 310			
	HeHPV Liner <i>without boss area reinforcement</i>						
	Volume [l]	Structural Mass [kg]	Xe Mass [kg]	Volume [l]	Structural Mass [kg]	He Mass [kg]	N ₂ Mass [kg]
	40	6.3	73	40	8.1	1.8	12.1
	60	8.9	110	65	12.4	2.9	19.6
	90	12.8	165	90	16.7	4.0	27.1
	120	16.8	220	120	21.8	5.3	36.2
Two Bearings	per §2.2	0.66		per §2.2	0.66		

XeHPV Tank Sizes
D_i = 405 mm, D_o = 418.4 mm
MEOP = 186 bar

Volume [l]	40 l	60 l	90 l	120 l
L = 446 mm	446 mm	601 mm	835 mm	1072 mm
m _{Struct_pred} = 6.3 kg	6.3 kg	8.9 kg	12.8 kg	16.8 kg
m _{Xe_max} = 73 kg	73 kg	110 kg	165 kg	220 kg

Under Development

* Maximum Expected Operating Pressure

Heritage	Extension of 60 litre S-XTA	
Fluids	Xenon	
Materials	Shell	Ti-6Al-4V
	Tube	Ti-3Al-2.5V
	Overwrapped	Epoxy-based CFRP / T800
Mounting interface	polar	
Total Volume	40 - 120 l	2441-7323 in ³
Temperature Range	up to 65 °C	up to 149 °F
Tank Dry Mass	6,3 – 14,8 kg	13,89 – 32,63 lbs
Diameter	440 mm	17,32 in
Length	446 – 1072 mm	17,56 – 42,20 in
MEOP*	187 bar	2.712 psi
Proof pressure (x 1,25)	233,8 bar	3.390 psi
Burst pressure (x 1,50)	280,5 bar	4.068 psi
Burst pressure tested	456,0 bar	6.614 psi

