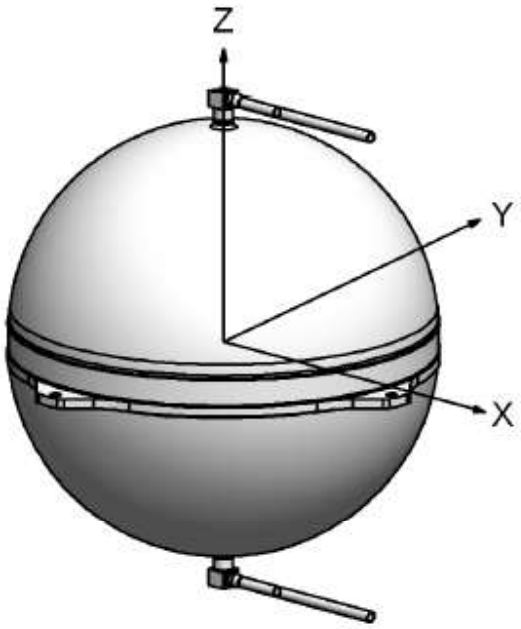
PEPT-260





PEPT-260

PEPT-260 Main Characteristics

Configuration	Spherical, nominal ∅260 mm
Fluid Media Compatibility	Hydrazine, IPA, distilled water, GN_2, GHe.
Pressurant	GN_2, GHe, inert gases
Nominal Volume	9.3 liters
Hydrazine Nominal Capacity	7 liters max @ 4:1 blow-down ratio
Liquid Volumetric Expulsion	> 99%
Pressure	
Operating	24 to 5.5 bar
Proof	36 bar
Burst	48 bar
Leakage	
Internal Leakage	$<1x10^{-2}$ Scc/s (GN2)
External Leakage	$<1x10^{-6}$ Scc/s (GHe) @ 24 bar
Material	
Tank Material	Ti-6Al-4V
Diaphragm Material	EPN-40 (Silica Free)
Ports	ø1/4” Ti per AMS4942 tubes, 5” Length
Weight	<1.7 kg
Temperature	
Operating	+10°C to +50°C
Qualification	+4°C to +60°C
Service Life	
Storage	7 years
Flight	15 years
Mounting	4 lugs at tank's equator with ø6.5 mm clearance holes (90° distribution)
Heritage	Qualified for space applications satellite Launcher (international), flight heritage with Venus satellite in orbit