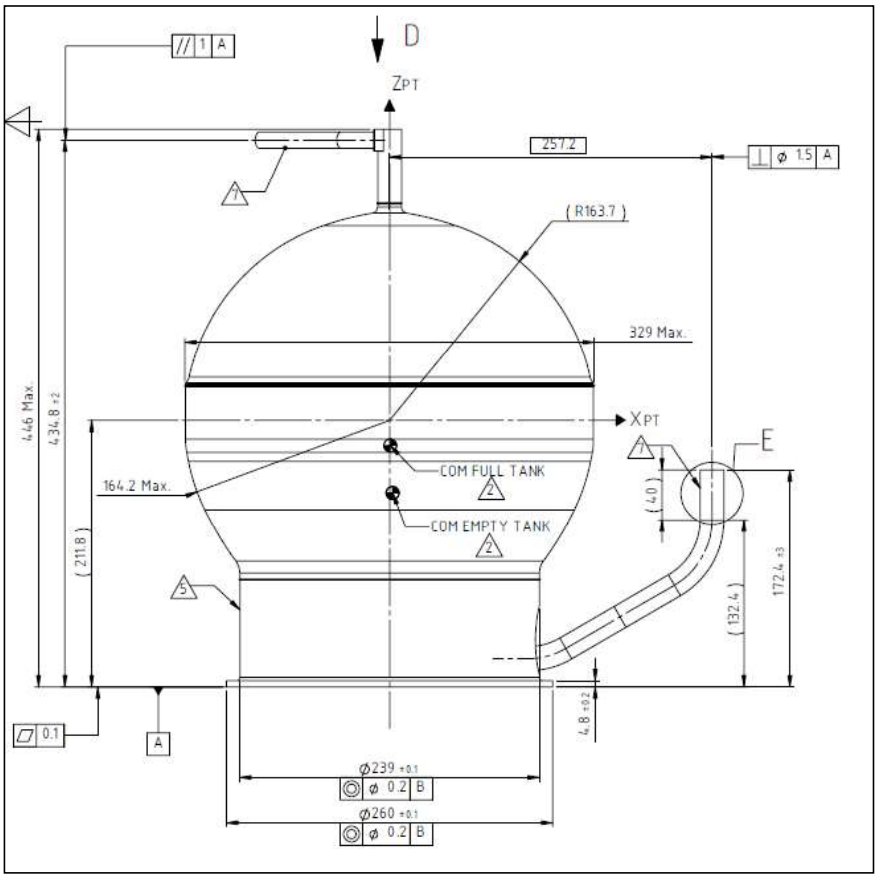
PEPT-330





PEPT-330

PEPT-330 Main Characteristics

Configuration	Spherical, nominal ∅327 mm
Fluid Media Compatibility	Hydrazine, de-ionized water, IPA, GN2, GHe
Pressurant	GN_2, GHe, inert gases
Nominal Volume	17.5 liter
Hydrazine Maximal Capacity	15.4 kg.
Liquid Volumetric Expulsion	≥ 99.1%
Pressure	
Operating	29 bars (MEOP)
Proof	36.25 bar
Burst	43.5 bar
Leakage	
Internal Leakage	$<1x10^{-2}$ Scc/s (GHe)
External Leakage	$<1x10^{-6}$ Scc/s (GHe)
Material	
Tank Material	Ti-6Al-4V
Diaphragm Material	EPN-40 - Silica Free
Tank tubes	Ti3Al2.5V
Tubing Interface	Pressuring tube: Ti-3Al-2.5V, 0.5" OD, 0.026" WT Propellant Tube: Ti-3Al-2.5V, 0.75" OD, 0.035" WT
Weight	≤ 3.1 kg
Temperature	
Operating (Qualification)	+4°C to +50°C
Non-Operating (Qualification)	-20°C to +60°C
Service Life	
Storage	7 years
Flight	15 years
Mounting	Pedestal mounting
Heritage	EXOMARS RCS DM