

# PVG Family 40 - 75 L

## High Pressure Tank (HPV) - Helium/Nitrogen - COTS



<b>HERITAGE</b>	SpaceBus, MTG, Euclid, KARI	
<b>FLUIDS</b>	Helium, Nitrogen	
<b>MATERIALS</b>	Shell	Ti-6Al-4V
	Tube	Ti-3Al-2.5V
	Overwrap	Epoxy-based CFRP / T800
<b>MOUNTING INTERFACE</b>	polar	
<b>TOTAL VOLUME</b> (unpressurized)	40 - 75 L	2380 - 4577 in <sup>3</sup>
<b>TEMPERATURE RANGE</b>	-30 / +60 °C	-22 / +140 °F
<b>TANK DRY MASS</b>	8,5 - 14,4 kg	18,7 - 31,7 lbs
<b>DIAMETER</b> (max. pressurized)	432,0 mm	17,01 in
<b>LENGTH</b> (max. pressurized)	467 - 728 mm	18,38 - 28,66 in
<b>MEOP*</b>	310,0 bar	4.496 psi
<b>PROOF PRESSURE</b> (x 1,25)	387,5 bar	5.620 psi
<b>BURST PRESSURE</b> (x 1,50)	465,0 bar	6.744 psi
<b>BURST PRESSURE TESTED</b>	633,0 bar	9.181 psi

\* Maximum Expected Operating Pressure