



Our Tank Technology

LMO offers a wide range of tanks designed to provide a compact and efficient solution for small satellite applications. A dedicated bladder design provides high expulsion efficiency and tight centre of gravity control.

Materials and processes have been chosen to enable compatibility with both standard monopropellant like Hydrazine and newer greener propellants like Water, LMP-103S and Hydrogen Peroxide.

Thanks to their design and materials LMO tanks can be provided in a short lead time and low price compared to conventional space propellant tanks.

Contact us to know more!

info@lmo.space

www.lmo.space



TANK SPECIFICATIONS

Model	PRT-1	PBT-1	PRT-3	PBT-3	PRT-5	PBT-5
Propellants	Hydrazine, Water, HTP, LMP-103-S	Hydrazine, Water, HTP, LMP-103-S	Hydrazine, Water, HTP, LMP-103-S	Hydrazine, Water, HTP, LMP-103-S	Hydrazine, Water, HTP, LMP-103-S	Hydrazine, Water, HTP, LMP-103-S
PMD	Bladder	Bladder	Bladder	Bladder	Bladder	Bladder
Main Materials	Aluminium, SS316, FEP	Ti-6Al-4V, FEP	Aluminium, SS316, FEP	Ti-6Al-4V, FEP	Aluminium, SS316, FEP	Ti-6Al-4V, FEP
Total Volume	1.05 l	1.05 l	3.8 l	3.8 l	5.25 L	5.25 L
Max Propellant Volume	0.87 l	0.87 l	3.1 l	3.1 l	5 l	5 l
Expulsion Efficiency	> 98%	> 98%	> 98%	> 98%	> 98%	> 98%
Maximum Expected Operating Pressure	8 bar	24 bar	8 bar	24 bar	8 bar	24 bar
Proof Pressure	12 bar	36 bar	12 bar	36 bar	12 bar	36 bar
Burst Pressure	32 bar	48 bar	32 bar	48 bar	32 bar	48 bar
Minimum Tested Pressure	1.5 bar	1.5 bar	1.5 bar	1.5 bar	1.5 bar	1.5 bar
Expulsion Flowrate	> 5 g/s @ 8 bar > 1.5 g/s @ 1.5 bar	> 5 g/s @ 24 bar > 1.5 g/s @ 1.5 bar	> 5 g/s @ 8 bar > 1.5 g/s @ 1.5 bar	> 5 g/s @ 24 bar > 1.5 g/s @ 1.5 bar	> 5 g/s @ 8 bar > 1.5 g/s @ 1.5 bar	> 5 g/s @ 24 bar > 1.5 g/s @ 1.5 bar
External Dimensions (D x L)	112 mm x 160 mm	112 mm x 160 mm	127 mm x 361 mm	127 mm x 361 mm	154 mm x 340 mm	154 mm x 340 mm
Mass	< 0.5 kg	< 0.75 kg	< 1 kg	< 1.75 kg	< 1.5 kg	< 2.5 kg
Operating Temperature	10 to 50 °C	10 to 50 °C	10 to 50 °C	10 to 50 °C	10 to 50 °C	10 to 50 °C
Non-Operating Temperature	-5 to 65 °C	-5 to 65 °C	-5 to 65 °C	-5 to 65 °C	-5 to 65 °C	-5 to 65 °C
Fluidic Interface	1/4" Tubing 1/4"AN (Other Options Available)	1/4" Tubing 1/4"AN (Other Options Available)	1/4" Tubing 1/4"AN (Other Options Available)	1/4" Tubing 1/4"AN (Other Options Available)	1/4" Tubing 1/4"AN (Other Options Available)	1/4" Tubing 1/4"AN (Other Options Available)

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