ULTRA | PCS

HiPPAG® High Pressure Pure Gas Storage Vessels

Key features

- Suitable for storage of pure gases as defined in DEF-STAN 58-96.
- Typical charge pressure 330 bar at 20°C.
- Qualified temperature range -40°C to +70°C.
- Can be utilised within rechargeable or sealed-for-life 'one shot' systems.
- Solutions are free of ITAR restrictions.

Overview

Ultra PCS Limited offers a range of high-pressure vessels manufactured from corrosion resistant stainless steel for the storage of pure air, nitrogen or argon gases used for the cryogenic cooling of infrared detectors, pneumatic cold gas actuation or stores ejection systems.

A range of standard vessels are available designed to DEF-STAN 81-91 and qualified for pure air storage needs, such as the 0.33L, 0.6L and 2.4L vessels. These vessels can also be supplied with a quick-disconnect valve and matching manual charge valve.

Vessels can be supplied cleaned and compatibility tested for use with pure air to DEF-STAN 58-96.

Ultra PCS' in-house design team can offer a solution for even the most demanding applications while meeting the general requirements of DEF-STAN 00 970. In-house capabilities include FEA stress tools, 3D design software and proof and burst-pressure hydrostatic test rigs.

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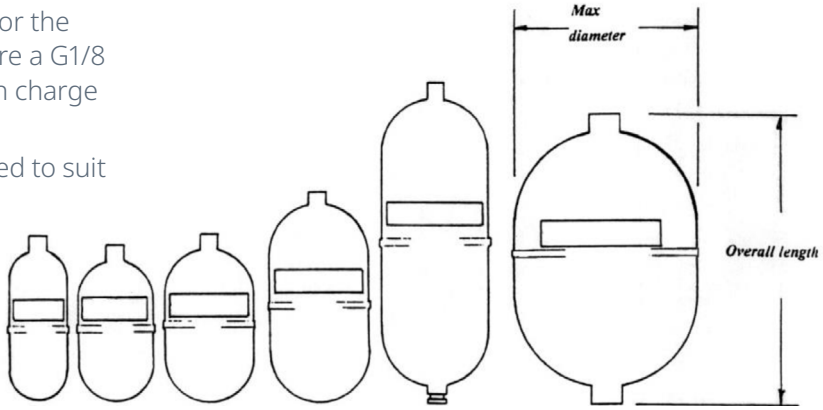
High Pressure Pure Gas Storage Vessels

A range of high-pressure vessels

Ultra PCS's range of high pressure vessels for the storage of pure air, nitrogen or argon feature a G1/8 BSP female thread and can be supplied with charge valves from the range below.

Other specific-to-type valves can be designed to suit customer needs.

1 2 3



0.2L 0.2L 0.33L 0.6LL 1.1L 2.4L

Item	Description	Part Number
1	Charge valve, push-in quick release	VB02-001
2	Charge valve, screw-in	VC02-002
3	Charge valve, screw-in	VB01-001

Volume (litres)	Part Number[1]	Overal Length (mm)	Max Diameter (mm)	Thread Type	Mass[2] (grams)	Pressure Rating @20°C
0.2	03969 (Ref)	144	52	G1/8 BSP (Female)	439	330 bar
0.2	04773	125	60	G1/8 BSP (Female)	390	330 bar
0.33	06380	138	75	G1/8 BSP (Female)	486	330 bar
0.33	03956	138	75	G1/8 BSP (Female)	612	330 bar
0.6	06425	176	85	G1/8 BSP (Female)	1058	330 bar
0.75	07024	120	120	G3/8 BSP (Female)	1476	414 bar
1.1[3]	04463	269	91	G1/4 BSP (Male)	1487	330 bar
2.4[4]	04170	240	150	G1/8 BSP (Male)	3565	330 bar

[1] Part numbers are for the vessels only without any valves
[2] Mass quoted is the nominal mass of the vessel without any valve fitted
[3] The 1.1L vessel has a threaded male connection only
[4] Incorporates an integral burst disc

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