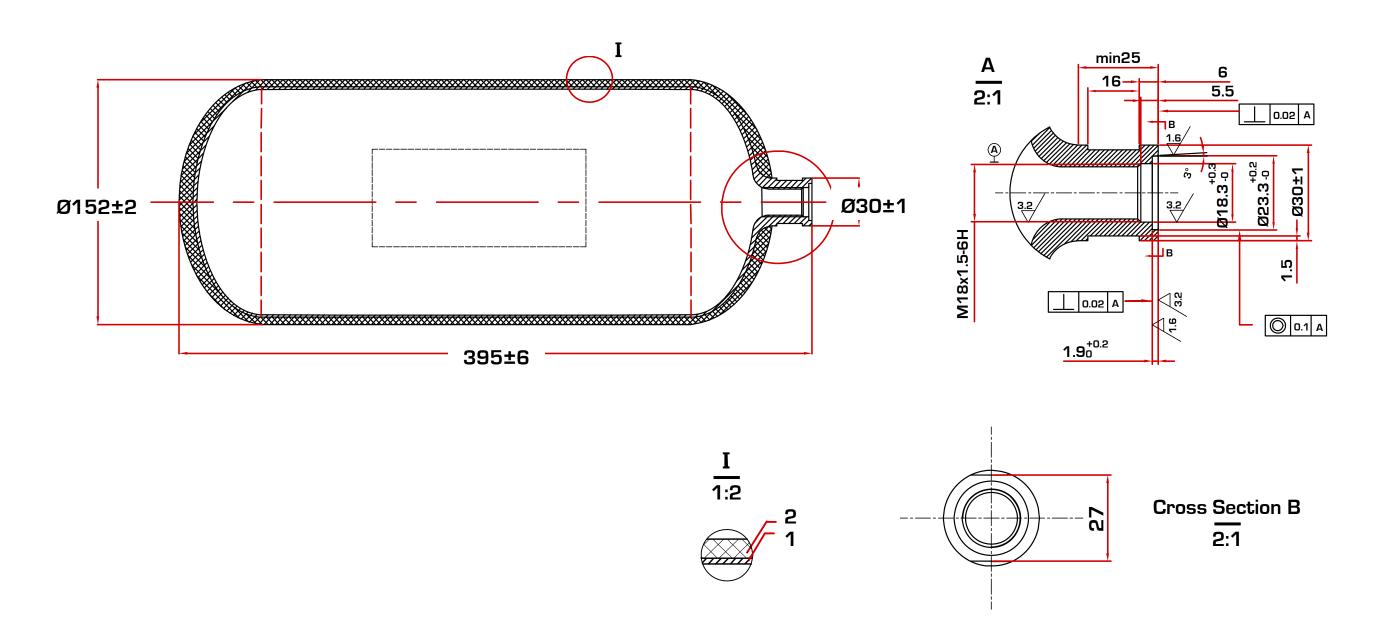


- 1. The design, manufacturing, type testing, batch testing and individual unit testing and inspection are carried out in accordance to the standard Q/ZCCD (N) 107-2018 <<Fully wrapped Aluminum alloy liner Hydrogen storage cylinder for UAV use>> .
- 2. Cylinder strength enhancement overwrap layer is carbon fiber + epoxy composite. After curing, the winding layer shall be free of defects such as bare fibers, fiber breakage, resin accumulation, delamination etc.
- 3. Each cylinder undergoes Hydrostatic test according to GB/T 9251-2011 << Hydrostatic test method for gas cylinder>>>. The cylinder must be able to hold pressure for at least 30s. The cylinder body shall not leak or be significantly deformed, and after the gas is relieved, the residual volume deformation shall not be more than 5%.
- 4. The cylinder shall be of its original color. Any marking on the cylinder shall have font size no smaller than 6mm height.
- 5. The design operating lifetime of the cylinder is 5 years, with a maximum charge-discharge cycles of 500.

| CFRCYL-III-3.5L | | |
|----------------------------------|----------------------|--|
| Liner material | Aluminum 6061 | |
| Strength enhancement layer | Carbon fiber + epoxy | |
| Refilling gas media | Hydrogen | |
| Operating temperature range | -40 to 85 °C | |
| Nominal operating pressure (MPa) | 35 | |
| Hydrostatic test pressure (MPa) | 52.5 | |
| Cylinder usage lifetime (years) | 5 | |
| Maximum charge/discharge cycles | 500 | |
| Nominal water volume (L) | 3.5 | |
| Cylinder length (mm) | 370 +/- 6 | |
| Cylinder weight (kg) | Max 1.75 | |
| | | |

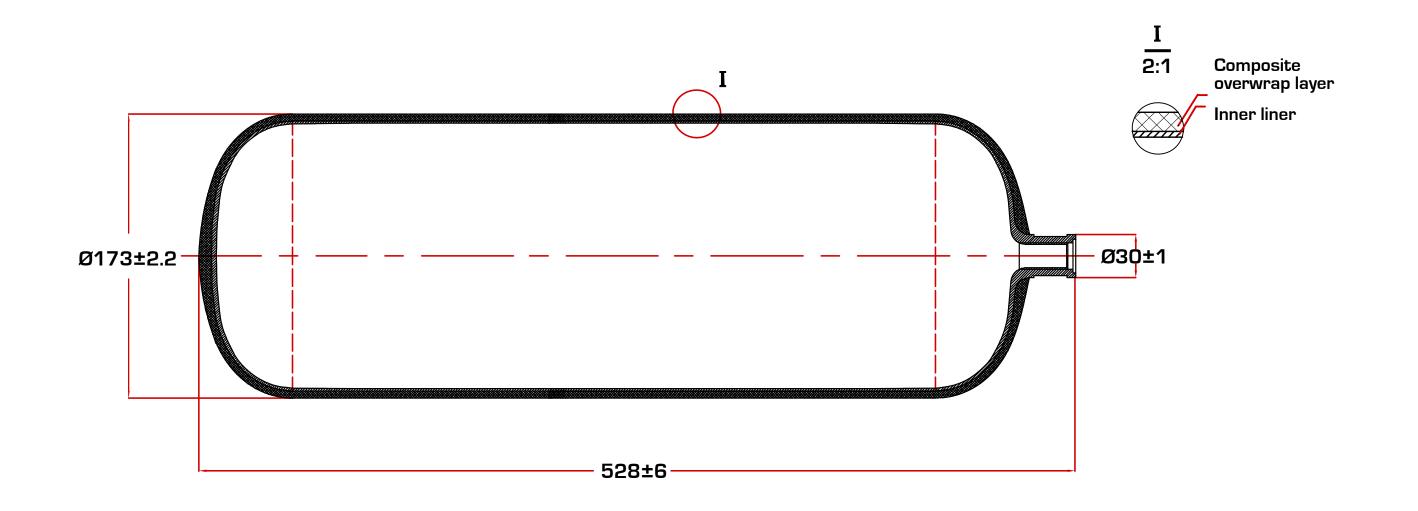
CFRCYL-III-3.5L



- 1. The design, manufacturing, type testing, batch testing and individual unit testing and inspection are carried out in accordance to the standard Q/ZCCD (N) 107-2018 << Fully wrapped Aluminum alloy liner Hydrogen storage cylinder for UAV use>>> .
- 2. Cylinder strength enhancement overwrap layer is carbon fiber + epoxy composite. After curing, the winding layer shall be free of defects such as bare fibers, fiber breakage, resin accumulation, delamination etc.
- 3. Each cylinder undergoes Hydrostatic test according to GB/T 9251-2011 << Hydrostatic test method for gas cylinder>>>. The cylinder must be able to hold pressure for at least 30s. The cylinder body shall not leak or be significantly deformed, and after the gas is relieved, the residual volume deformation shall not be more than 5%.
- 4. The cylinder shall be of its original color. Any marking on the cylinder shall have font size no smaller than 6mm height.
- 5. The design operating lifetime of the cylinder is 5 years, with a maximum charge-discharge cycles of 500.

| CFRCYL-III-5L | | |
|----------------------------------|----------------------|--|
| Liner material | Aluminum 6061 | |
| Strength enhancement layer | Carbon fiber + epoxy | |
| Refilling gas media | Hydrogen | |
| Operating temperature range | -40 to 85 °C | |
| Nominal operating pressure (MPa) | 35 | |
| Hydrostatic test pressure (MPa) | 52.5 | |
| Cylinder usage lifetime (years) | 5 | |
| Maximum charge/discharge cycles | 500 | |
| Nominal water volume (L) | 5 | |
| Cylinder length (mm) | 395 +/- 6 | |
| Cylinder weight (kg) | Max 1.85 | |

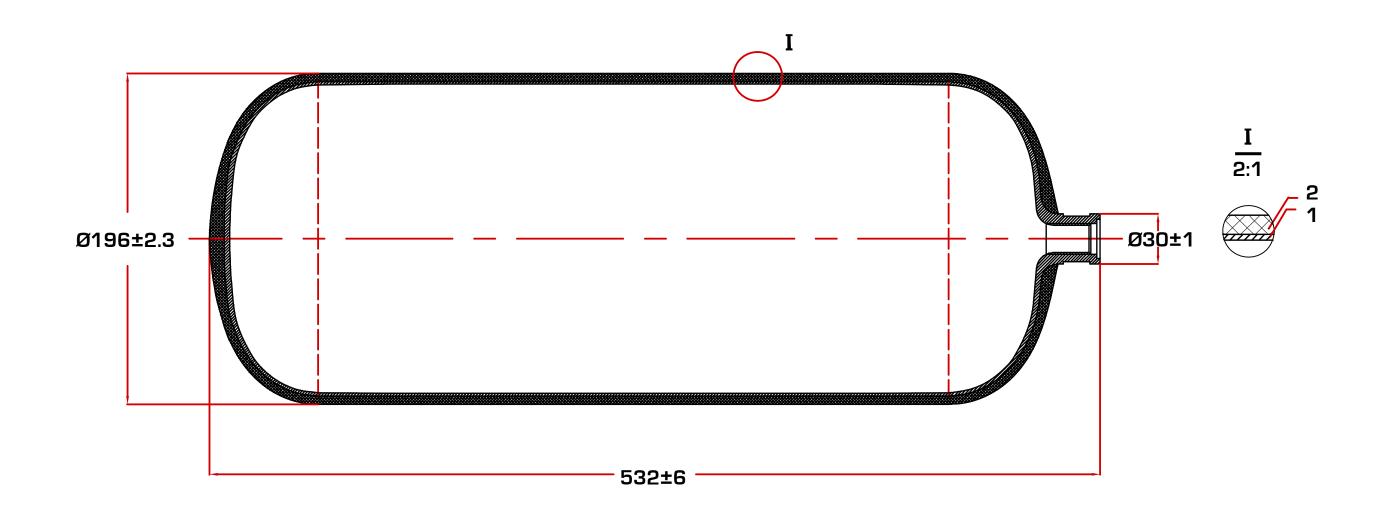
CFRCYL-III-5L



- 1. The design, manufacturing, type testing, batch testing and individual unit testing and inspection are carried out in accordance to the standard Q/ZCCD (N) 107-2018 <<Fully wrapped Aluminum alloy liner Hydrogen storage cylinder for UAV use>> .
- 2. Cylinder strength enhancement overwrap layer is carbon fiber + epoxy composite. After curing, the winding layer shall be free of defects such as bare fibers, fiber breakage, resin accumulation, delamination etc.
- 3. Each cylinder undergoes Hydrostatic test according to GB/T 9251-2011 << Hydrostatic test method for gas cylinder>>>. The cylinder must be able to hold pressure for at least 30s. The cylinder body shall not leak or be significantly deformed, and after the gas is relieved, the residual volume deformation shall not be more than 5%.
- 4. The cylinder shall be of its original color. Any marking on the cylinder shall have font size no smaller than 6mm height.
- 5. The design operating lifetime of the cylinder is 5 years, with a maximum charge-discharge cycles of 500.

| CFRCYL-III-9L | | |
|----------------------------------|----------------------|--|
| Liner material | Aluminum 6061 | |
| Strength enhancement layer | Carbon fiber + epoxy | |
| Refilling gas media | Hydrogen | |
| Operating temperature range | -40 to 85 °C | |
| Nominal operating pressure (MPa) | 35 | |
| Hydrostatic test pressure (MPa) | 52.5 | |
| Cylinder usage lifetime (years) | 5 | |
| Maximum charge/discharge cycles | 500 | |
| Nominal water volume (L) | 9 | |
| Cylinder length (mm) | 528 +/-6 | |
| Cylinder weight (kg) | Max 2.85 | |
| | | |

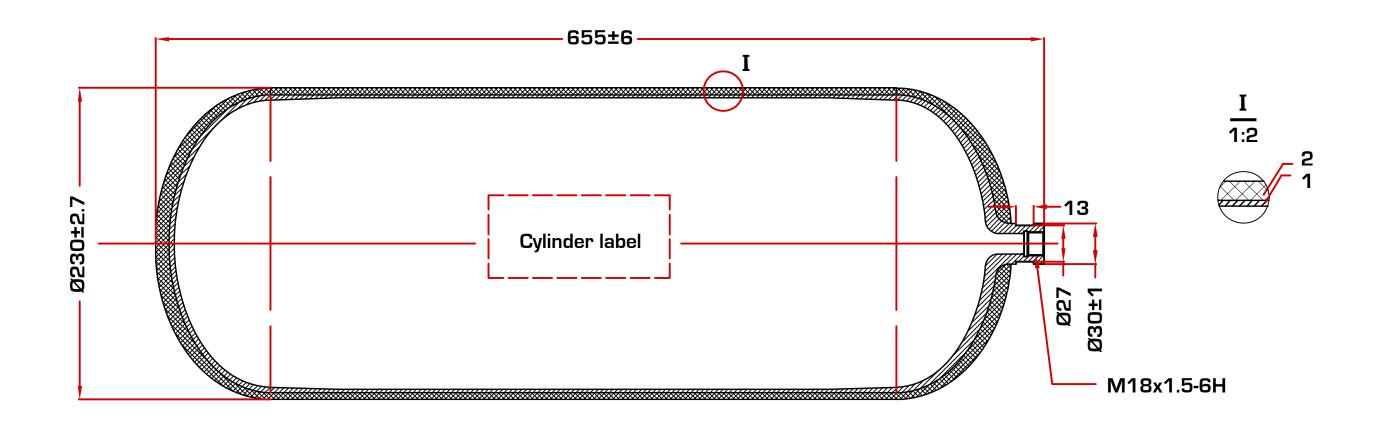
CFRCYL-III-9L



- 1. The design, manufacturing, type testing, batch testing and individual unit testing and inspection are carried out in accordance to the standard Q/ZCCD (N) 107-2018 << Fully wrapped Aluminum alloy liner Hydrogen storage cylinder for UAV use>>> .
- 2. Cylinder strength enhancement overwrap layer is carbon fiber + epoxy composite. After curing, the winding layer shall be free of defects such as bare fibers, fiber breakage, resin accumulation, delamination etc.
- 3. Each cylinder undergoes Hydrostatic test according to GB/T 9251-2011 << Hydrostatic test method for gas cylinder>>>. The cylinder must be able to hold pressure for at least 30s. The cylinder body shall not leak or be significantly deformed, and after the gas is relieved, the residual volume deformation shall not be more than 5%.
- 4. The cylinder shall be of its original color. Any marking on the cylinder shall have font size no smaller than 6mm height.
- 5. The design operating lifetime of the cylinder is 5 years, with a maximum charge-discharge cycles of 500.

| CFRCYL-III-12L | | |
|----------------------------------|----------------------|--|
| Liner material | Aluminum 6061 | |
| Strength enhancement layer | Carbon fiber + epoxy | |
| Refilling gas media | Hydrogen | |
| Operating temperature range | -40 to 85 °C | |
| Nominal operating pressure (MPa) | 35 | |
| Hydrostatic test pressure (MPa) | 52.5 | |
| Cylinder usage lifetime (years) | 5 | |
| Maximum charge/discharge cycles | 500 | |
| Nominal water volume (L) | 12 | |
| Cylinder length (mm) | 532 +/- 6 | |
| Cylinder weight (kg) | Max 3.5 | |

CFRCYL-III-12L



- 1. The design, manufacturing, type testing, batch testing and individual unit testing and inspection are carried out in accordance to the standard Q/ZCCD (N) 107-2018 <<Fully wrapped Aluminum alloy liner Hydrogen storage cylinder for UAV use>>> .
- 2. Cylinder strength enhancement overwrap layer is carbon fiber + epoxy composite. After curing, the winding layer shall be free of defects such as bare fibers, fiber breakage, resin accumulation, delamination etc.
- 3. Each cylinder undergoes Hydrostatic test according to GB/T 9251-2011 << Hydrostatic test method for gas cylinder>>>. The cylinder must be able to hold pressure for at least 30s. The cylinder body shall not leak or be significantly deformed, and after the gas is relieved, the residual volume deformation shall not be more than 5%.
- 4. The cylinder shall be of its original color. Any marking on the cylinder shall have font size no smaller than 6mm height.
- 5. The design operating lifetime of the cylinder is 5 years, with a maximum charge-discharge cycles of 500.

| CFRCYL-III-20L | | |
|----------------------------------|----------------------|--|
| Liner material | Aluminum 6061 | |
| Strength enhancement layer | Carbon fiber + epoxy | |
| Refilling gas media | Hydrogen | |
| Operating temperature range | -40 to 85 °C | |
| Nominal operating pressure (MPa) | 35 | |
| Hydrostatic test pressure (MPa) | 52.5 | |
| Cylinder usage lifetime (years) | 5 | |
| Maximum charge/discharge cycles | 500 | |
| Nominal water volume (L) | 20 | |
| Cylinder length (mm) | 655 +/- 6 | |
| Cylinder weight (kg) | Max 7 | |

CFRCYL-III-20L