The background image is a composite of two scenes. The left side shows an offshore oil rig structure extending over the ocean, with several water jets spraying upwards from the rig. The right side shows a large, intense fire or explosion on the rig, with bright orange and yellow flames and thick black smoke rising into the sky. The overall scene is set against a clear blue sky.

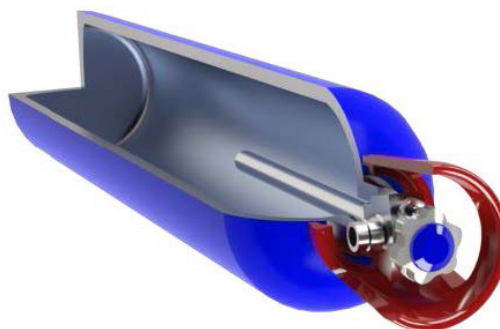
# EXPLORATION SAMPLE CYLINDERS

## 20 LTR GAS CYLINDER, UN, TPED, DOT (PENDING) **proserv**

Proserv's single ended 20 Ltr Aluminium gas cylinder is the sampling industry standard where large volume surface separator gas samples are required during well testing. The Cylinder is suitable for use in any ambient condition to be expected outdoor, subject to the specified temperature limitations, including offshore platforms, onshore terminals and sites in tropical areas.

### Features and benefits

- Universally transportable cylinder
- Single valve design with dual 1/4" NPT female ports which enable transfer of liquid gas or vapor gas, assisted by one valve port being equipped with a dip tube
- Dual Port Design valve also fitted with a PRD
- Quick filling of liquified gas by releasing cylinder head pressure through additional vapor port
- Ability to remove liquids by inverting cylinder



Technical Specification			
Part number	A0016837	Complies with	<ul style="list-style-type: none"> <li>• Approved for use within the European union under the following Directive:</li> <li>• - 2010/35/EU (TPED)</li> <li>• UN Approval Certification</li> <li>• DOT Approval Pending</li> </ul>
Net volume	20,000cc (20L)		
Operating temperature	-20 to 95 °C (-4 °F to 203 °F)		
Design temperature	-20 °C to 95 °C (-4 °F to 203 °F)		
Transport temperature	65 °C (149 °F) (Max)		
Maximum working pressure	193 bar(g) (2,800 psi) at 65 °C (max) 170 bar(g) (2,465 psi) at 95 °C	Service	<ul style="list-style-type: none"> <li>• UN 1075 Petroleum gases, liquefied</li> <li>• UN 1965 Hydrocarbon gas mixture, liquefied, n.o.s. (not otherwise specified)</li> <li>• UN 1053 Compressed gas, toxic, flammable, n.o.s.</li> <li>• UN 1954 Compressed gas, flammable, n.o.s.</li> <li>• UN 1971 Natural gas, compressed</li> <li>• UN 1006 Argon compressed</li> <li>• UN 1016 Carbon monoxide compressed</li> <li>• UN 1046 Helium compressed</li> <li>• UN 1049 Hydrogen, Compressed.</li> <li>• UN 1066 Nitrogen, compressed</li> <li>• Gas mixtures: only when in compliance with the appropriate Transport of Dangerous Goods Regulations; (see references)</li> </ul>
Material	Cylinder: Aluminium alloy AA 6061 T6 grade Valves: 316L stainless steel compliant to NACE MR-0175		
Net weight	27 kg		
Dimensions (OD x L)	204 x 1080 mm		
Fusible Burst Disc Plug (PRD)	200-220 Bar (2900-3200) @ 100°C		
Option	Transportation box		
Standard documentation	<ul style="list-style-type: none"> <li>• Proserv Certificate of Conformity</li> <li>• Hydrostatic Test Certificate</li> <li>• Declaration of Conformance TPED &amp; UN</li> <li>• User instructions</li> <li>• User spare parts list</li> </ul>		



## ProLight 690 bar PED/DOT



The ProLight Sample Cylinder is designed for the collection of hydrocarbon Liquid & Gas Group 1 samples requiring analysis in the laboratory and subsequent storage. Threaded end caps inclusive of o-ring and back up ring sealing arrangement at either end of the cylinder creates a robust and reliable design, which is field proven.



### Features and benefits

- Light weight titanium cylinder construction
- Autoclave Engineers valves
- Valve inlet and outlet ports: 1/8" AE W125
- Flushing connection on inlet valve

Technical Specification			
Part number	See table below	Approved for use within the European union under the following Directive: 2014/68/EU (PED) Approved for Transportation within the USA US Special Permit: US DOT SP-15404 Design codes: generally, in accordance with PD 5500	
Design temperature	-20°C to +177°C		
Design pressure	690 Bar (10,000psi) @ 93°C 668 Bar (9,700psi) @ 177°C		
Material	Cylinder Body: Titanium Grade 5 End Caps: Titanium Grade 2 Piston: Titanium Grade 2 Mixing Ball: Stainless Steel 316 Valves: Stainless Steel 316	Service	<ul style="list-style-type: none"> <li>• UN 1954 Compressed gas, flammable, n.o.s</li> <li>• UN 1964 Hydrocarbon gas mixture, compressed, n.o.s.</li> <li>• UN 1965 Hydrocarbon gas mixtures, liquefied, n.o.s.</li> <li>• UN 1053 Hydrogen sulphide (H2S)</li> <li>• UN 3161 Liquefied gas, flammable, n.o.s.</li> <li>• UN 1971, UN 1972 Natural gas with methane content</li> <li>• UN 1066 Nitrogen, compressed</li> <li>• UN 1267 Petroleum crude oil</li> <li>• UN 1075 Petroleum gases, liquefied or liquefied petroleum gas</li> <li>• UN 1006 Argon compressed</li> <li>• UN 1953 Compressed gas, toxic, flammable, n.o.s.</li> <li>• Formation water: water with dissolved salts in various quantities compositions</li> </ul>
Net weight	See table below		Standard documentation
Dimensions (OD x L)	Cylinder length include valves = see table Cylinder OD = 72mm Cylinder OD for 2500cc cylinder ONLY = 100mm		
Option	<ul style="list-style-type: none"> <li>• Hydrostatic test certificate, with 3rd party endorsement, complete with 3rd party inspection release note</li> <li>• Copy of 2014/68/EU PED EC D of C</li> <li>• Material Certification to EN 10204: 3.1 for pressure retaining components</li> <li>• Other type of connections available on request</li> <li>• Ti Gr 6246 for Cylinder body (NACE MR 0175/ISO 15156 compliant)</li> <li>• Alternative valves material</li> <li>• Alternative O-ring seal material</li> <li>• Transportation Box (DOT Requirement)</li> <li>• Australian Standards Certification on request</li> </ul>		

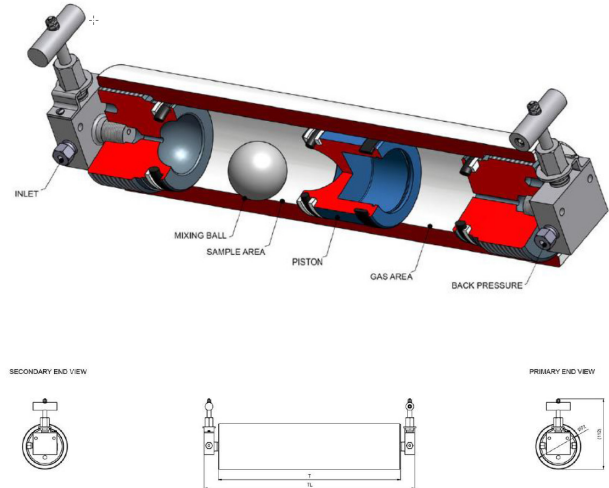
Cylinder Specification				
Part number	Description	Volume	Weight	Dimension (overall length including valves)
002990	ProLight, 690 Bar, 640cc, PED, DOT	640 cc	5.7 kg	497 mm
066530	ProLight, 690 Bar, 300cc, PED/DOT	300 cc	4.4 kg	332 mm
017774	ProLight, 690 Bar, 1000cc, PED/DOT	1,000 cc	7.1 kg	660 mm
203251	ProLight, 690 Bar, 2500 cc, PED. C/W carry handle & Brackets	2,500 cc	19 kg	903 mm
028039	ProLight, 690 Bar, 640cc, PED	640 cc	5.7 kg	497 mm
205511	ProLight, 690 Bar, 1000cc, PED	1,000 cc	7.1 kg	660 mm
205512	ProLight, 690 Bar, 300cc, PED	300 cc	4.4 kg	332 mm
076557	ProLight, 690 Bar, 640cc, PED, SilcoNert Coated	640 cc	5.7 kg	497 mm

## ProLight Ti-690-100-MB, TPED

The ProLight flow through cylinder is used for collecting gas or fluid samples.

### Features and benefits

- Light weight single piston sample receiver
- Internal mixing ball
- Autoclave engineers valves
- Outlet port: 1/8" AE W125



Technical Specification			
Part number	Ti-690-100 MB	Code	• EN 1964-3
GA-drawing	3CA-030	Applied directive	• TPED 2010/35/EU
Net volume	981 cc	Service	<ul style="list-style-type: none"> <li>• UN 1267 petroleum crude oil</li> <li>• UN 1075 petroleum gases, liquified</li> <li>• UN 1954 compressed gasses, flammable, n.o.s.</li> <li>• UN 1971 natural gas, compressed</li> <li>• UN 1066 nitrogen, compressed</li> <li>• UN 1964 hydrocarbon gas mixture</li> <li>• UN 1965 hydrocarbon gas mixture liquefied, n.o.s</li> <li>• UN 1053 hydrogen sulphide</li> <li>• UN 3161 liquefied gas, flammable, n.o.s</li> <li>• UN 1953 compressed gas, toxic, flammable, n.o.s</li> <li>• Formation water</li> </ul>
Design temperature	-20 °C to +177 °C		
MAWP	690 bar g @ 177 °C		
Material	Cylinder: ASTM B348 Gr. 5 End caps: ASTM B348 Gr. 2 Piston: ASTM B348 Gr. 2 Mixing ball: ASTM A479 316		
Net weight	7.2 kg		
Dimensions	(TL x W x H) 653 x 72 x 114,5 (open) T = 610 OD = Ø72	Standard	<ul style="list-style-type: none"> <li>• Hydrostatic pressure test certificate</li> <li>• Users guide</li> <li>• Declaration of Conformity</li> <li>• Material cert. EN 10204 3.1 on pressure retaining parts</li> <li>• Transport box</li> </ul>
Option	<ul style="list-style-type: none"> <li>• Other kinds of connections available</li> <li>• Also available in sizes 300cc &amp; 640cc</li> <li>• NACE Compliant (MR 0175) in titanium grade 6246</li> </ul>		

## ProLight 690 bar 640 cc, NACE, PED, DOT



The ProLight sample cylinder is designed for the collection of hydrocarbon liquid and Gas Group 1 samples requiring analysis in the laboratory and subsequent storage. Threaded end caps inclusive of o-ring and back up ring sealing arrangement at either end of the cylinder creates a robust and reliable design, which is field proven. Cylinder is compliant with ANSI/NACE MR0175/ISO 15156.

### Features and benefits

- Light weight titanium cylinder construction
- Autoclave Engineers valves
- Inlet valve: alloy 625
- Valve inlet and outlet ports: 1/8" AE W125
- Flushing connection on inlet valve



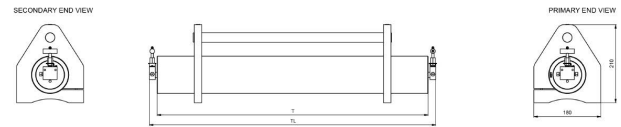
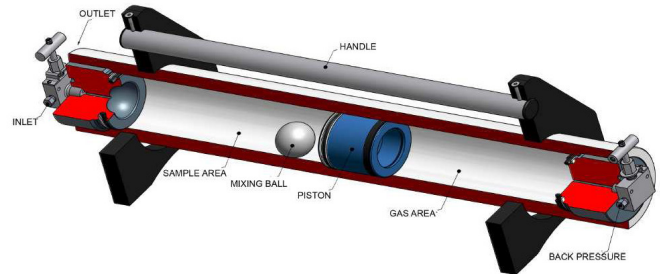
Technical Specification			
Part number	054265	Approved for use within the European union under the following Directive: 2014/68/EU (PED) Approved for Transportation within the USA US Special Permit: US DOT SP-15404 Australian Standard AS 2030 - WAP 23930 Design codes: Generally in accordance with PD 5500	
Net volume	629 cc		
Design temperature	-20 °C to +177 °C		
Design pressure	690 bar, 10,000 psi @ 93 °C 668 bar, 9,700 psi @ 177 °C		
Material	Cyl body: titanium 6246 End caps: titanium grade 2 Piston: titanium grade 2 Mixing ball: stainless steel 316 Inlet valve: alloy 625 Outlet valve: stainless steel 316		
Net weight	5.7 kg	Service	<ul style="list-style-type: none"> <li>• UN 1954 compressed gas, flammable, n.o.s</li> <li>• UN 1964 hydrocarbon gas mixture, compressed, n.o.s.</li> <li>• UN 1965 hydrocarbon gas mixtures, liquefied, n.o.s.</li> <li>• UN 1053 hydrogen sulphide (H2S)</li> <li>• UN 3161 liquefied gas, flammable, n.o.s.</li> <li>• UN 1971, UN 1972 natural gas with methane content</li> <li>• UN 1066 nitrogen, compressed</li> <li>• UN 1267 petroleum crude oil</li> <li>• UN 1075 petroleum gases, liquefied or liquefied petroleum gas</li> <li>• UN 1006 argon compressed</li> <li>• UN 1953 compressed gas, toxic, flammable, n.o.s.</li> <li>• - Formation water: water with dissolved salts in various quantities compositions</li> </ul>
Dimensions	Cyl length incl valves 497 mm Cyl body length 444 mm Cyl OD 72mm		
Standard documentation	<ul style="list-style-type: none"> <li>• Certificate of conformity</li> <li>• Hydrostatic test certificate</li> <li>• User instructions</li> <li>• User spare parts list</li> <li>• Authorised Inspectors Certificate of Conformance to DOT SP-15404</li> <li>• Copy of DOT SP-15404</li> <li>• Australian Standards test certificate</li> <li>• Australian Standards design registration document</li> </ul>		
Option	<ul style="list-style-type: none"> <li>• Transportation Box (DOT Requirement)</li> <li>• Alternative connection types, valve material and o-ring seal material available on request</li> </ul>	Optional documentation	Hydrostatic test certificate, with 3rd party endorsement, complete with 3rd party inspection release note. Copy of 2014/68/EU PED EC D of C. Material Certification to BS EN 10204: 3.1 for pressure retaining components.

## ProLight Ti-690-400-MB

The ProLight sample receiver is a portable single piston sample receiver with an internal mixing ball, double product inlet connections and one back pressure connection. The double inlet connection is suitable as flush connection. Connections are furnished with mini-valves with 1/8 inch AE W125.

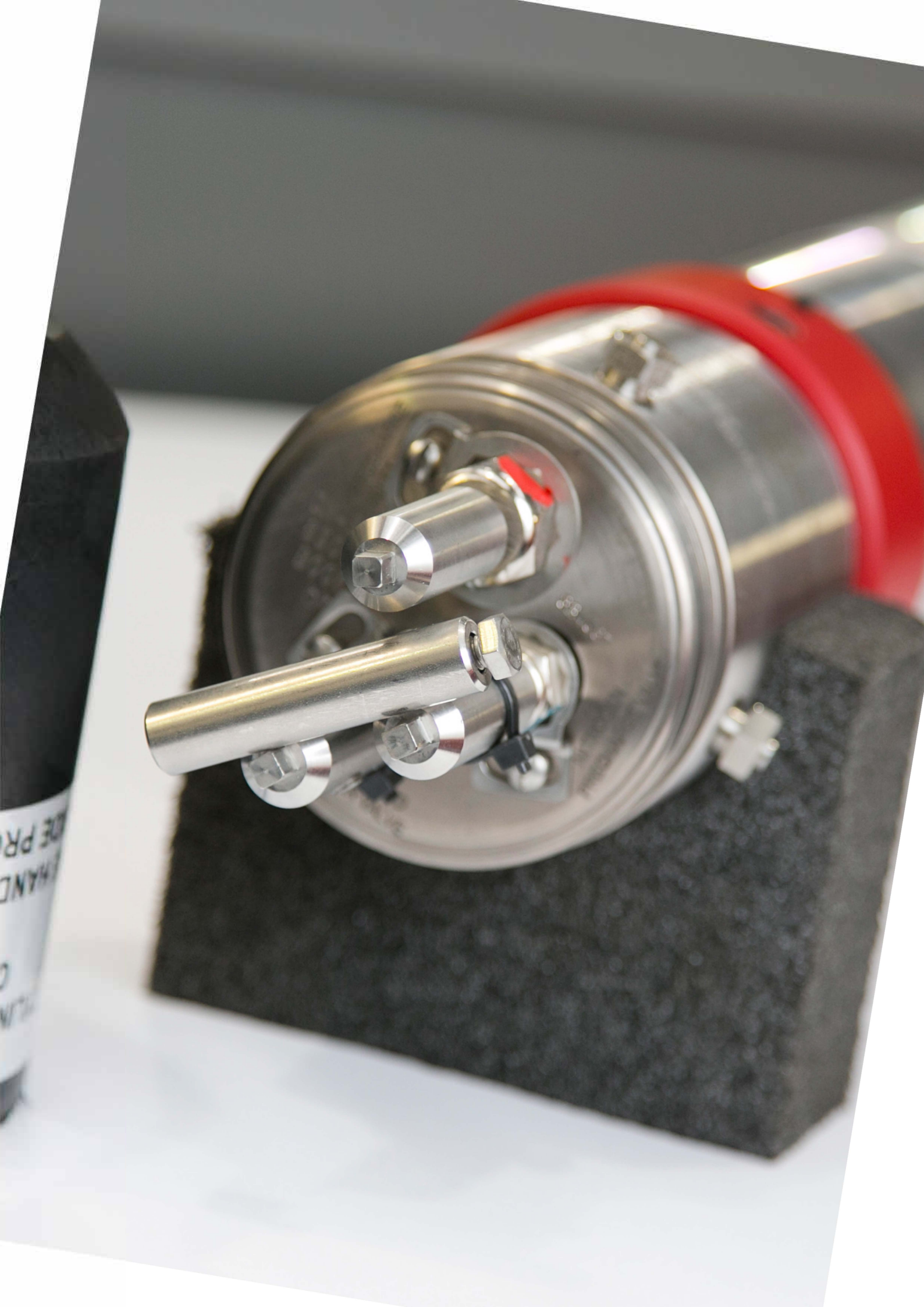
### Features and benefits

- Lightweight single piston sample receiver
- Internal mixing ball
- Autoclave Engineers valves
- Outlet port: 1/8 inch AE W125



Technical Specification			
Part number	Ti-690-400-MB	Code	EN 13445-3
GA-drawing	3CA-031	Applied directive	2014/68/EU (PED)
Net volume	4,001 cc		
Design temperature	-20 °C to +149 °C	Service	<ul style="list-style-type: none"> <li>• UN 1267 petroleum crude oil</li> <li>• UN 1075 petroleum gases, liquefied</li> <li>• UN 1954 compressed gasses, flammable, n.o.s.</li> <li>• UN 1971 natural gas, compressed</li> <li>• UN 1066 nitrogen, compressed</li> <li>• UN 1964 hydrocarbon gas mixture</li> <li>• UN 1965 hydrocarbon gas mixture liquefied, n.o.s</li> <li>• UN 3161 liquefied gas, flammable, n.o.s</li> <li>• UN 1953 compressed gas, toxic, flammable, n.o.s</li> <li>• Formation water</li> </ul>
MAWP	690 bar g @ 149 °C		
Material	Cylinder: ASTM B348 Gr. 5 End caps: ASTM B348 Gr. 2 Piston: ASTM B348 Gr. 2 Mixing ball: ASTM A479 316		
Net weight	26.5 kg		
Dimensions	(TL x W x H) 1,293 x 180 x 210 mm T = 1,250 mm OD = Ø100		
Option	<ul style="list-style-type: none"> <li>• Material cert. EN 10204 3.1 on pressure retaining parts</li> <li>• Transport box</li> <li>• Other kinds of connections available</li> </ul>	Standard documentation	<ul style="list-style-type: none"> <li>• Hydrostatic pressure test</li> <li>• certificate endorsed by 3rd party</li> <li>• Users guide</li> <li>• Declaration of Conformity</li> </ul>





## Inconel 625 10K, PED

The sample cylinder N625 is designed for the collection of hydrocarbon liquids and gas group 1 samples requiring analysis in the laboratory and subsequent storage. Threaded end caps and piston inclusive of o-ring and back up ring sealing arrangement within the cylinder creates a robust and reliable design, which is field proven.

### Features and benefits

- Inconel 625 corrosion resistant material
- Autoclave Engineers valves
- Valve inlet / outlet ports: 1/8" AE W125
- Carry handle (removable)



Technical Specification					
Part number	See table below				
Net volume	See table below				
Design temperature	-29°C to +149°C				
Design pressure	10000 psi (690 Bar) @ -29°C to +93C 9800 psi (676 Bar) @ +149°C				
Material	Cylinder Body: Alloy 625 End Caps: Alloy 625 Piston: Alloy 625 Inlet Valve: Alloy 625 Outlet Valve: Stainless Steel 316 Mixing Ball: Hastelloy C276 Adapter: 6MO				
Net weight	See table below				
Dimensions	See table below				
Option	<ul style="list-style-type: none"> <li>• Hydrostatic test certificate, with 3rd party endorsement, complete with 3rd party inspection release note</li> <li>• Copy of PED 2014/68/EU</li> <li>• Declaration of Conformity</li> <li>• Material Certification to EN 10204: 3.1 for pressure retaining components</li> </ul>				
<ul style="list-style-type: none"> <li>• Approved for use within the European union under the following Directive: 2014/68/EU (PED)</li> <li>• Design codes: Generally in accordance with PD 5500</li> </ul>					
<table border="1"> <thead> <tr> <th>Service</th> <th>Standard documentation</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> <li>• UN 1954 Compressed gas, flammable, n.o.s</li> <li>• UN 1964 Hydrocarbon gas mixture, compressed, n.o.s.</li> <li>• UN 1965 Hydrocarbon gas mixtures, liquefied, n.o.s.</li> <li>• UN 1053 Hydrogen Sulphide (H2S)</li> <li>• UN 3161 Liquefied Gas, flammable, n.o.s.</li> <li>• UN 1971, UN 1972 Natural gas with methane content</li> <li>• UN 1066 Nitrogen, compressed</li> <li>• UN 1267 Petroleum crude oil</li> <li>• UN 1075 Petroleum gases, liquefied or liquefied petroleum gas</li> <li>• UN 1006 Argon compressed</li> <li>• UN 1953 Compressed gas, toxic, flammable, n.o.s.</li> <li>• Formation water: water with dissolved salts in various quantities compositions</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• Certificate of conformity</li> <li>• Hydrostatic test certificate</li> <li>• User instructions</li> <li>• User spare parts list</li> </ul> </td> </tr> </tbody> </table>		Service	Standard documentation	<ul style="list-style-type: none"> <li>• UN 1954 Compressed gas, flammable, n.o.s</li> <li>• UN 1964 Hydrocarbon gas mixture, compressed, n.o.s.</li> <li>• UN 1965 Hydrocarbon gas mixtures, liquefied, n.o.s.</li> <li>• UN 1053 Hydrogen Sulphide (H2S)</li> <li>• UN 3161 Liquefied Gas, flammable, n.o.s.</li> <li>• UN 1971, UN 1972 Natural gas with methane content</li> <li>• UN 1066 Nitrogen, compressed</li> <li>• UN 1267 Petroleum crude oil</li> <li>• UN 1075 Petroleum gases, liquefied or liquefied petroleum gas</li> <li>• UN 1006 Argon compressed</li> <li>• UN 1953 Compressed gas, toxic, flammable, n.o.s.</li> <li>• Formation water: water with dissolved salts in various quantities compositions</li> </ul>	<ul style="list-style-type: none"> <li>• Certificate of conformity</li> <li>• Hydrostatic test certificate</li> <li>• User instructions</li> <li>• User spare parts list</li> </ul>
Service	Standard documentation				
<ul style="list-style-type: none"> <li>• UN 1954 Compressed gas, flammable, n.o.s</li> <li>• UN 1964 Hydrocarbon gas mixture, compressed, n.o.s.</li> <li>• UN 1965 Hydrocarbon gas mixtures, liquefied, n.o.s.</li> <li>• UN 1053 Hydrogen Sulphide (H2S)</li> <li>• UN 3161 Liquefied Gas, flammable, n.o.s.</li> <li>• UN 1971, UN 1972 Natural gas with methane content</li> <li>• UN 1066 Nitrogen, compressed</li> <li>• UN 1267 Petroleum crude oil</li> <li>• UN 1075 Petroleum gases, liquefied or liquefied petroleum gas</li> <li>• UN 1006 Argon compressed</li> <li>• UN 1953 Compressed gas, toxic, flammable, n.o.s.</li> <li>• Formation water: water with dissolved salts in various quantities compositions</li> </ul>	<ul style="list-style-type: none"> <li>• Certificate of conformity</li> <li>• Hydrostatic test certificate</li> <li>• User instructions</li> <li>• User spare parts list</li> </ul>				

Cylinder Specification				
Part number	Description	Volume	Weight	Dimension (overall length including valves)
185518	Sample Cylinder, Piston, N625, 10000 psi, 300 cc, PED	300 cc	10.7 Kg	375 mm
185519	Sample Cylinder, Piston, N625, 10000 psi, 640 cc, PED	640 cc	14.2 Kg	534 mm
185520	Sample Cylinder, Piston, N625, 10000 psi, 1000 cc, PED	1,000 cc	18.4 Kg	705 mm



## Type 5 10K, 700 cc, PED, DOT, TC, AS



The Type 5 (10K) sample cylinder is designed specifically for the task of housing samples transferred from the Proserv downhole sampler, for transportation to the analysis laboratory and subsequent storage. This transportable sampling cylinder is of piston type with two end caps, sealed with double O rings and back-up rings.



### Features and benefits

- Single piston sample receiver, with internal mixing ball
- Evacuation port on sample side of cylinder
- Autoclave Engineer needle valves fitted
- Valve inlet / outlet ports: 1/4" NPT female
- Valve protection guards fitted

Technical Specification		
Part number	850669-700	<ul style="list-style-type: none"> <li>• Approved for use within the European union under the following Directive: 2014/68/EU (PED)</li> <li>• Approved for Transportation within the USA US Special Permit: - US DOT SP-12116</li> <li>• Transport Canada: TC-SU9269</li> <li>• Australian Standard AS 2030: WAP 23931</li> <li>• Design codes: Generally in accordance with PD 5500</li> </ul>
Net volume	700 cc	
Design temperature	-20 °C to +150 °C	
Design pressure	10,000 psi (690 bar)	
Material	Cylinder and end caps: 17-4PH St. Stl. (AISI 630) in NACE MR0175 Condition Piston and Mixing Device: 316 St. Stl. (AISI 316) in NACE MR0175 Condition	<b>Service</b> <ul style="list-style-type: none"> <li>• UN 1066 - Nitrogen, compressed</li> <li>• UN 1075 - Petroleum Gases, Liquefied or Liquefied Petroleum Gases</li> <li>• UN 1267 - Petroleum Crude Oil</li> <li>• UN 1953 - Compressed Gas, Toxic, Flammable, n.o.s.</li> <li>• UN 1954 - Compressed Gas, Flammable, n.o.s.</li> <li>• UN 1964 - Hydrocarbon gases mixtures, compressed, n.o.s.</li> <li>• UN 1965 - Hydrocarbon gases mixtures, Liquefied, n.o.s.</li> <li>• UN 1971 - Methane, Compressed or Natural Gas, Compressed)</li> </ul>
Net weight	17.5 kg (empty) 18.2 kg (pre-charged water/glycol)	
Dimensions	Overall length 693 mm Cylinder OD 89 mm	
Option	<ul style="list-style-type: none"> <li>• Transportation Box (DOT Requirement)</li> <li>• 500cc and 1000cc cylinder volumes available</li> </ul>	<b>Optional documentation</b> <ul style="list-style-type: none"> <li>• Hydrostatic Test Certificate, with 3rd party endorsement complete with 3rd party inspection release note</li> <li>• Material Certification to EN 10204: 3.1 for main pressure retaining components</li> <li>• Copy of PED 2014/68/EU Declaration of Conformity</li> </ul>
Standard documentation	<ul style="list-style-type: none"> <li>• Proserv Certificate of Conformity</li> <li>• Hydrostatic Test Certificate</li> <li>• Authorised Inspectors Certificate of Conformance to DOT SP-12116 and TC Equivalency Certificate SU9269</li> <li>• Copy of DOT SP-12116</li> <li>• Copy of TC-SU9269</li> <li>• User Instructions</li> <li>• User spare parts list</li> <li>• Australian Standards Test Certificate</li> <li>• Australian Standards Design Registration Document.</li> </ul>	

## Type 5 15K, 700 cc, PED, DOT, TC, AS



The Type 5 (15K) sample cylinder was designed specifically for receiving samples transferred from the Proserv downhole sampler and production surface samples, for transportation to the analysis laboratory and subsequent storage. This transportable sampling cylinder is of piston type with two end caps, sealed with double 'O' rings and back-up rings.

### Features and benefits

- Single piston sample receiver, with internal mixing ball
- Evacuation port on sample side of cylinder
- Autoclave Engineer needle valves
- Valve inlet / outlet ports: 1/4" A.E. medium pressure female
- Valve protection guards fitted



Technical Specification		
Part number	850870-700	<ul style="list-style-type: none"> <li>• Approved for use within the European union under the following Directive: 2014/68/EU (PED)</li> <li>• Approved for Transportation within the USA under US Special Permit: US DOT SP-12116</li> <li>• Transport Canada: TC Equivalency Certificate SU9269</li> <li>• Australian Standard AS 2030: WAP 24116</li> <li>• Design codes: Generally in accordance with PD 5500</li> </ul>
Net volume	700 cc	
Design temperature	-20 °C to +200 °C	
Design pressure	15,000 psi (1,034 bar)	<b>Service</b> <ul style="list-style-type: none"> <li>• UN 1066 - Nitrogen, compressed</li> <li>• UN 1075 - Petroleum Gases, Liquefied or Liquefied Petroleum Gases</li> <li>• UN 1267 - Petroleum Crude Oil</li> <li>• UN 1953 - Compressed Gas, Toxic, Flammable, n.o.s.</li> <li>• UN 1954 - Compressed Gas, Flammable, n.o.s.</li> <li>• UN 1964 - Hydrocarbon gases mixtures, compressed, n.o.s.</li> <li>• UN 1965 - Hydrocarbon gases mixtures, Liquefied, n.o.s.</li> <li>• UN 1971 / UN 1972 - Methane, Compressed or Natural Gas, Compressed</li> </ul>
Material	Cylinder and End caps: 17-4PH St. Stl. (AISI 630) in NACE MR0175 condition Piston and Mixing Device: 316 St. Stl. (AISI 316) in NACE MR0175 Condition	
Net weight	21.2 kg (empty) 21.9 kg (pre-charged water/glycol)	
Dimensions	Overall length 719 mm Cylinder OD 90 mm (28.3" X 3.6")	
Option	500cc and 1000cc volume options available Transportation Box (DOT requirement)	<b>Standard documentation</b> <ul style="list-style-type: none"> <li>• Proserv Certificate of Conformity</li> <li>• Hydrostatic Test Certificate</li> <li>• Authorised Inspectors Certificate of Conformance to DOT SP-12116 and TC Equivalency Certificate SU9269</li> <li>• Copy of DOT SP-12116</li> <li>• Copy of TC-SU9269</li> <li>• User instructions</li> <li>• User spare parts list</li> <li>• Australian Standards Test Certificate</li> <li>• Australian Standard Design registration Document</li> </ul>
Optional documentation	<ul style="list-style-type: none"> <li>• Hydrostatic Certificate, with 3rd party endorsement with 3rd party inspection release note</li> <li>• - Material Certification to EN 10204: 3.1 or 3.2 for main pressure retaining components</li> <li>• - Copy of PED 2014/68/EU Declaration of Conformity</li> </ul>	

# Specification Sheet

## Type 5 15K, 100 cc, 500cc & 1,250cc, PED, DOT



The Type 5 (15K) sample cylinder is designed for the collection of group 1 hydrocarbon liquids and gas samples, for transportation to the analysis laboratory and subsequent storage. This transportable sampling cylinder is of piston type with two end caps, sealed with double 'O' rings and back-up rings, and reliable proven design in the oil & gas industry.

### Features and benefits

- Single piston sample receiver, with internal mixing ball
- Integrated evacuation port on the sample side of the cylinder
- Integral Autoclave Engineers Valves for superior control
- Valve inlet / outlet ports: 1/4" A.E. medium pressure female
- Valve protection guards fitted



Technical Specification				
Part number	See table below	<ul style="list-style-type: none"> <li>• Approved for use within the European union under the following Directive: PED 2014/68/EU</li> <li>• Approved for Transportation within the USA under US Special Permit: DOT SP-12116</li> <li>• Design codes: Generally in accordance with PD 5500</li> </ul>		
Net volume	See table below			
Design temperature	-20 °C to +200 °C			
Design pressure	15,000 psi (1034 Bar)			
Material	Cylinder and End Caps: 17-4PH St. Stl. (AISI 630) (ANSI/NACE MR0175 ISO 15156) - Piston and Mixing Device: 316 St. Stl. (AISI 316) (ANSI/NACE MR0175 ISO 15156) - Valves: Hastelloy C-276 Wetted Parts	Service	<ul style="list-style-type: none"> <li>• UN 1066 Nitrogen compressed</li> <li>• UN 1006 Argon compressed</li> <li>• UN 1075 Petroleum gases, liquefied or liquefied petroleum gas</li> <li>• UN 1267 Petroleum crude oil</li> <li>• UN 1953 Compressed gas, toxic flammable n.o.s.</li> <li>• UN 1053 Hydrogen Sulphide (H2S)</li> <li>• UN 1954 Compressed gas, flammable, n.o.s.</li> <li>• UN 1964 Hydrocarbon gas mixture compressed, n.o.s.</li> <li>• UN 1965 Hydrocarbon gas mixtures, liquefied, n.o.s.</li> <li>• UN 1971 Natural gas with methane content</li> </ul>	
Net weight	See table below			
Dimensions	Overall Length = see table below O.D = 91mm (3.6")			
Option	- Transportation Box (DOT requirement)			
Optional documentation	<ul style="list-style-type: none"> <li>• Hydrostatic Test Certificate, complete with 3rd Party endorsement, and 3rd Party Inspection Release Note</li> <li>• Material Certification to EN 10204: 3.1 for pressure retaining components</li> <li>• Copy of PED 2014/68/EU</li> <li>• Declaration of Conformity</li> </ul>	Standard documentation	<ul style="list-style-type: none"> <li>• Proserv Certificate of Conformity</li> <li>• Hydrostatic Test Certificate</li> <li>• Authorised Inspectors, Certificate of Conformance to DOT SP-12116</li> <li>• Copy of DOT Special Permit SP-12116</li> <li>• User Instructions</li> <li>• User Spare Parts List</li> </ul>	
Cylinder options				
Part number	Description	Volume	Weight	Approximate dimension (overall length including valves)
188992	Type 5 15K, Cylinder, 1250 cc, PED/DOT	1250 cc	25.2 Kg	893 mm
198652	Type 5 15K, Cylinder, 500 cc, PED/DOT	500 cc	18.4 Kg	630 mm
198653	Type 5 15K, Cylinder, 100 cc, PED/DOT	100 cc	14.4 Kg	490 mm



## Type 6 10K, 700 cc, PED, DOT, TC



The Type 6 (10K) cylinder is designed specifically for the task of housing samples transferred from the Proserv downhole sampler, for transportation to the analysis laboratory and subsequent storage.

### Features and benefits

- Single piston sample receiver, with internal vortex ring mixing device
- Single phase nitrogen reservoir
- Evacuation port on sample side of cylinder
- Valve inlet/outlet ports: nitrogen reservoir - 1/4 inch AE medium pressure female.
- Sample and precharge: 1/4 inch NPT female

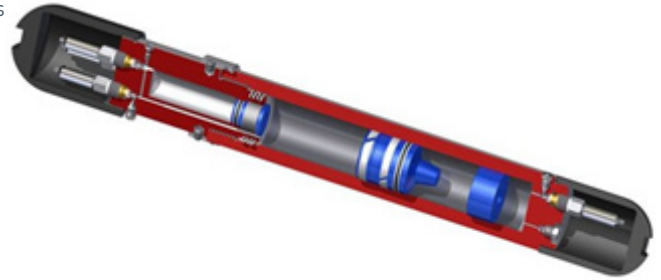


Technical Specification		
Part number	850409-700	Approved for use and transport within, and across borders, in Europe, USA and Canada under the following European Directives, US Special Permit and Transport Canada Equivalency Certificate: <ul style="list-style-type: none"> <li>• 2014/68/EU (PED)</li> <li>• US DOT SP-12116</li> <li>• TC Equivalency Certificate SU9269</li> </ul>
Net volume	700 cc fluid and 100 cc nitrogen	
Design temperature	- 20 °C to +150 °C	
Design pressure	10,000 psi (690 bar)	
Material	Cylinder and end caps: 17-4PH St. Stl. (AISI 630) in NACE MR0175 Condition piston and mixing device: 316 St. Stl.(AISI 316) in NACE MR0175 Condition	Service <ul style="list-style-type: none"> <li>• UN 1066 - nitrogen, compressed</li> <li>• UN 1075 - petroleum gases, liquefied or liquefied petroleum gases</li> <li>• UN 1267 - petroleum crude oil</li> <li>• UN 1953 - compressed gas, toxic, flammable, NOS</li> <li>• UN 1954 - compressed gas, flammable, NOS</li> <li>• UN 1964 - Hydrocarbon gases mixtures, compressed, NOS</li> <li>• UN 1965 - hydrocarbon gases mixtures, liquefied, NOS</li> <li>• UN 1971 - methane, compressed or natural gas, compressed</li> </ul>
Net weight	22 kg (empty) 22.7 kg (pre-charged water/glycol)	
Dimensions	Cylinder length 720 mm Cylinder OD 89 mm Length with guards 810 mm	
Option	<ul style="list-style-type: none"> <li>• Hydrostatic certificate, with third party endorsement</li> <li>• Third party inspection release note Material Certification to EN 10204:</li> <li>• 3.1 or 3.2 for main pressure retaining components</li> <li>• 500 cc and 1,000 cc volume options available.</li> <li>• Transportation box for compliance with DOT</li> </ul>	Standard documentation <ul style="list-style-type: none"> <li>• Hydrostatic certificate</li> <li>• Authorised Inspectors Certificate of Conformance to DOT SP-12116 and TC Equivalency Certificate SU9269</li> <li>• Copy of DOT SP-12116</li> <li>• User instructions and user spare parts list</li> </ul>

## Type 6 15K, 700 cc, PED, DOT, TC, AS



The Type 6 (15K) cylinder is a high-pressure, high-temperature single phase sample cylinder, designed for the collection of group 1 hydrocarbon liquids and gas samples. A nitrogen charged chamber maintains pressure and representative samples during transportation to the laboratory for analysis and subsequent storage. The Type 6 (15K) cylinder has a reliable field proven design with multiple years' service in the oil and gas industry.

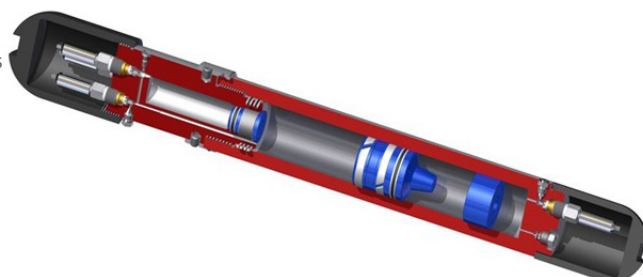


### Features and benefits

- Internal Vortex ring for sample agitation
- Integral Autoclave Engineers valves for superior control
- Valve inlet / outlet ports, 1/4" A.E. Medium pressure female
- Integrated evacuation port on the sample side of the cylinder
- Minimal dead volume
- Single-phase pressure compensation
- Valve protection guards fitted

Technical Specification		
Part number	850852-700	<ul style="list-style-type: none"> <li>• Approved for use within the European union under the following Directive: - 2014/68/EU (PED)</li> <li>• Approved for Transportation within the USA under US Special Permit: - US DOT SP-12116</li> <li>• Transport Canada: - TC Equivalency Certificate SU9269</li> <li>• Australian Standard AS 2030: - WAP 24095</li> <li>• Design codes: Generally in accordance with PD 5500</li> </ul>
Net volume	700 cc fluid and 100 cc nitrogen	
Design temperature	-20 °C to +200 °C	
Design pressure	15,000 psi (1034 bar)	
Material	Cylinder Body: 17-4PH Stainless Steel (ANSI/NACE MR0175 ISO 15156) - Nitrogen End Cap: 17-4PH Stainless Steel (ANSI/NACE MR0175 ISO 15156) - Piston & Vortex Ring: 316 St. Stl. (AISI 316) in NACE MR0175 Condition - Valve: Hastelloy C-276 wetted parts	Service <ul style="list-style-type: none"> <li>• UN 1954 Compressed gas, flammable, n.o.s</li> <li>• UN 1964 Hydrocarbon gas mixture, compressed, n.o.s.</li> <li>• UN 1965 Hydrocarbon gas mixtures, liquefied, n.o.s.</li> <li>• UN 1053 Hydrogen Sulphide (H2S)</li> <li>• UN 3161 Liquefied Gas, flammable, n.o.s.</li> <li>• UN 1971, UN 1972 Natural gas with methane content</li> <li>• UN 1066 Nitrogen, compressed</li> <li>• UN 1267 Petroleum crude oil</li> <li>• UN 1075 Petroleum gases, liquefied or liquefied petroleum gas</li> <li>• UN 1006 Argon compressed</li> <li>• UN 1953 Compressed gas, toxic, flammable, n.o.s.</li> </ul>
Net weight	Approx. 24 Kg (empty)	Standard documentation <ul style="list-style-type: none"> <li>• Proserv Certificate of Conformity</li> <li>• Hydrostatic Test Certificate</li> <li>• Authorised Inspectors Certificate of Conformance to DOT SP-12116 and TC Equivalency Certificate SU9269</li> <li>• Copy of DOT SP-12116</li> <li>• Copy of TC-SU9269</li> <li>• User instructions</li> <li>• User spare parts list</li> <li>• Australian Standards Test Certificate</li> <li>• Australian Standards Design registration Document</li> </ul>
Dimensions	Cylinder length 720 mm Cylinder OD 91 mm Length with guards 820 mm	
Option	Transportation Box (DOT requirement)	
Optional documentation	<ul style="list-style-type: none"> <li>• Hydrostatic test certificate, with 3rd party endorsement, complete with 3rd party inspection release note</li> <li>• Copy of PED 2014/68/EU Declaration of Conformity</li> <li>• Material Certification to EN 10204: 3.1 for pressure retaining components</li> </ul>	

The Type 6 (15K) cylinder is a high-pressure, high-temperature single phase sample cylinder, designed for the collection of group 1 hydrocarbon liquids and gas samples. A nitrogen charged chamber maintains pressure and representative samples during transportation to the laboratory for analysis and subsequent storage. The Type 6 (15K) cylinder is ideal for harsh environments (H2S), due to the material of manufacture, and has a reliable field proven design with multiple years' service in the oil and gas industry.



### Features and benefits

- Corrosion resistant alloy construction
- Internal vortex ring for sample agitation
- Integral Autoclave Engineers valves for superior control
- Valve inlet / outlet ports, 1/4" A.E. medium pressure female
- Integrated evacuation port on the sample side of the cylinder
- Minimal dead volume
- Single-phase pressure compensation
- Valve protection guards fitted

Technical Specification			
Part number	099161	<ul style="list-style-type: none"> <li>• Approved for use within the European Union under Directive: - 2014/68/EU (PED)</li> <li>• Approved for Transportation within the USA under DOT Special Permit: US DOT SP-15404</li> <li>• Design codes: Generally in accordance with PD 5500</li> </ul>	
Net volume	700 cc fluid and 100 cc nitrogen charge		
Design temperature	-20 °C to +200 °C		
Design pressure	15,000 psi (1034 bar)	<b>Service</b> <ul style="list-style-type: none"> <li>• UN 1954 Compressed gas, flammable, n.o.s</li> <li>• UN 1964 Hydrocarbon gas mixture, compressed, n.o.s.</li> <li>• UN 1965 Hydrocarbon gas mixtures, liquefied, n.o.s.</li> <li>• UN 1053 Hydrogen Sulphide (H2S)</li> <li>• UN 3161 Liquefied Gas, flammable, n.o.s.</li> <li>• UN 1971, UN 1972 Natural gas with methane content</li> <li>• UN 1066 Nitrogen, compressed</li> <li>• UN 1267 Petroleum crude oil</li> <li>• UN 1075 Petroleum gases, liquefied or liquefied petroleum gas</li> <li>• UN 1006 Argon compressed</li> <li>• UN 1953 Compressed gas, toxic, flammable, n.o.s.</li> </ul>	
Material	Cylinder Body: Inconel 725 (ANSI/NACE MR0175 ISO 15156) - Nitrogen End Cap: 17-4PH Stainless Steel (ANSI/NACE MR0175 ISO 15156) - Piston & Vortex Ring: Inconel 625 (ANSI/NACE MR0175 ISO 15156) - Valve: Hastelloy C-276 wetted parts		
Net weight	Approx 24 kg (empty)		
Dimensions	Cylinder length 720 mm Cylinder OD 91 mm Length with guards 820 mm		
Option	<ul style="list-style-type: none"> <li>• Hydrostatic test certificate, with 3rd party endorsement, complete with 3rd party inspection release note</li> <li>• Copy of PED 2014/68/EU</li> <li>• Declaration of Conformity</li> <li>• Material Certification to EN 10204: 3.1 for pressure retaining components</li> <li>• Transportation Box (DOT Requirement)</li> </ul>	<b>Standard documentation</b> <ul style="list-style-type: none"> <li>• Hydrostatic test certificate</li> <li>• User Instructions &amp; Spare parts List</li> <li>• Authorised Inspectors Certificate of Conformance to DOT SP-12116</li> </ul>	



## Type 8 10K Cylinder, 6000 cc, PED



The Type 8 10K sample cylinder was designed specifically for receiving hydrocarbon liquid & gas group 1 samples for laboratory analysis work and subsequent storage. This sampling cylinder is of a piston type with two end caps, which are sealed by double 'O' rings and back-up rings

### Features and benefits

- Anti-tamper valves
- Large volume 6 litre
- Valve connections, 1/4" NPT (f) inlet and outlet
- Internal mixing ball

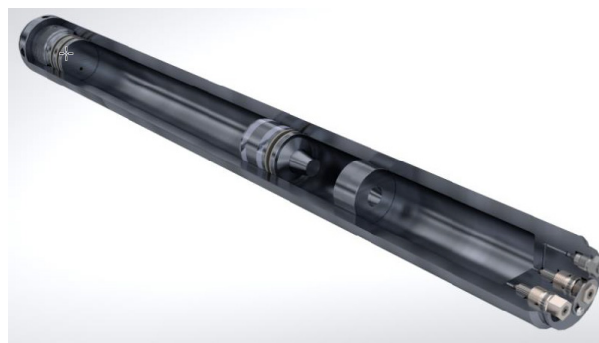


Technical Specification			
Part number	180833, 180130 (excludes valves)	<ul style="list-style-type: none"> <li>• Approved for use within the European union under the following Directive: 2014/68/EU (PED)</li> <li>• Design codes: Generally in accordance with PD 5500</li> </ul>	
Net volume	6000 cc		
Design temperature	-20 °C to +150 °C		
Design pressure	10,000 psi (690 bar)	Service	<ul style="list-style-type: none"> <li>• UN 1954 Compressed gas, flammable, n.o.s</li> <li>• UN 1964 Hydrocarbon gas mixture, compressed, n.o.s.</li> <li>• UN 1965 Hydrocarbon gas mixtures, liquefied, n.o.s.</li> <li>• UN 1971, UN 1972 Natural gas with methane content</li> <li>• UN 1066 Nitrogen, compressed</li> <li>• UN 1267 Petroleum crude oil</li> <li>• UN 1075 Petroleum gases, liquefied or liquefied petroleum gas</li> <li>• UN 1953 Compressed gas, toxic, flammable, n.o.s.</li> <li>• Formation water: water with dissolved salts in various quantities compositions</li> </ul>
Material	Cylinder Body & Screwed Ring: 17-4 PH St. Stl. In the NACE ANSI MR0175/ISO 15156 condition End Caps & Piston: 316 St. Stl. In the NACE ANSI MR0175/ISO 15156 condition		
Net weight	130 Kg		
Dimensions	Overall Length: 865 mm Cylinder O.D: 191 mm		
Options	5000 cc option available		
Optional documentation	<ul style="list-style-type: none"> <li>• Hydrostatic Test Certificate, with 3rd party endorsement, complete with 3rd party inspection release note</li> <li>• Copy of PED 2014/68/EU</li> <li>• Declaration of Conformity</li> <li>• Material Certification to EN 10204: 3.1 for pressure retaining components</li> </ul>		

## Sample Cylinder, Multiphase, 20K, PED, DOT



Proserv's 20000 psi sample cylinder is a piston type sample receiver suitable for capture, transportation and subsequent storage of high-pressure hydrocarbon samples. The cylinder is designed for containment of conventional multiphase samples and can be utilised in a laboratory for fluid analysis and large volume recombination studies.



### Features and benefits

- Large volume capacity
- Designed in accordance with PED 2014/68/EU
- DOT approval under SP-20681
- Materials complaint to ANSI/NACE MR0175/ISO 15156
- Inconel construction, suitable for severe service
- Fluids recombination vessel
- Suitable for long term storage

Technical specification			
Part number	208453 (2000 cc), 208459 (1500 cc) 208460 (1000 cc), 208461 (700 cc)	Approved for use under the following directive/Permit - 2014/68/EU (PED) • DOT Special Permit SP-20681	
Net volume	See table below		
Design temperature	-29°C to +177°C		
MAWP	20000 psi (1379 Bar) @ -29°C to +93°C 19200 psi (1324 Bar) @ +177°C	Service	<ul style="list-style-type: none"> <li>• UN 1006 - Argon, Compressed</li> <li>• UN 1066 - Nitrogen, compressed</li> <li>• UN 1075 - Petroleum gases, liquefied or liquefied petroleum gases</li> <li>• UN 1267 - Petroleum crude oil</li> <li>• UN 1953 - Compressed gas, toxic, flammable, n.o.s.</li> <li>• UN 3161 - Liquefied gas, Flammable, N.O.S</li> <li>• UN 1954 - Compressed gas, flammable, n.o.s.</li> <li>• UN 1964 - Hydrocarbon gases mixtures, compressed, n.o.s.</li> <li>• UN 1965 - Hydrocarbon gases mixtures, liquefied, n.o.s.</li> <li>• UN 1971 / UN 1972 - Methane, compressed or natural gas</li> <li>• UN 1053 - Hydrogen sulfide</li> </ul>
Material	Cylinder and End Caps: Inconel 725 (UNS N07725) in ANSI/NACE MR0175/ISO 15156 Sample Piston and Vortex Ring: Inconel 625 (UNS N06625) in ANSI/NACE MR0175/ISO 15156 Condition Nitrogen Piston: Stainless Steel 316 (UNS 531600) Valve Body: Nibron Valve Stem: MP35N (UNS R30035)		
Net weight	See table below		
Dimensions	See table below		
Optional documentation	<ul style="list-style-type: none"> <li>• 3rd party Inspection Release Note</li> <li>• Hydrostatic certificate, with 3rd party endorsement</li> <li>• PED Declaration of Conformity</li> <li>• Material certification to EN 10204: Type 3.1 for main pressure retaining components</li> </ul>		

Cylinder options		
Net volume	Net weight	Dimensions
2000cc Cylinder Volume	33kg (empty) 35kg (pre-charged water/glycol)	Cylinder Length = 992mm, Cylinder OD = 88.9mm
1500cc Cylinder Volume	28kg (empty) 29.5kg (pre-charged water/glycol)	Cylinder Length = 817mm, Cylinder OD = 88.9mm
1000cc Cylinder Volume	23kg (empty) 24kg (pre-charged water/glycol)	Cylinder Length = 640mm, Cylinder OD = 88.9mm
700cc Cylinder Volume	20kg (empty) 20.7kg (pre-charged water/glycol)	Cylinder Length = 534mm, Cylinder OD = 88.9mm

## Sample Cylinder, Single Phase, 20K, PED, DOT



Proserv's 20,000 psi sample cylinder is a piston type sample receiver suitable for capture, transportation and subsequent storage of high-pressure representative production fluid samples. The cylinder is designed for containment of conventional single phase samples and can be utilised in a laboratory for fluid analysis and large volume recombination studies.



### Features and benefits

- Large volume capacity
- Designed in accordance with PED 2014/68/EU
- DOT approval under SP-20681
- Materials complaint to ANSI/NACE MR0175/ISO 15156
- Inconel construction, suitable for severe service
- Fluids recombination vessel

Technical specification		
Part number	208466 (2000 cc), 208465 (1500 cc) 208463 (1000 cc), 208462 (700 cc)	Approved for use under the following directive/Permit <ul style="list-style-type: none"> <li>• 2014/68/EU (PED)</li> <li>• DOT Special Permit SP-20681</li> </ul>
Net volume	See table below	
MAWP	20000 psi (1379 Bar) @ -29°C to +93°C 19200 psi (1324 Bar) @ +177°C	
Design temperature	-29°C to +177°C	<b>Service</b> <ul style="list-style-type: none"> <li>• UN 1006 - Argon, Compressed</li> <li>• UN 1066 - Nitrogen, compressed</li> <li>• UN 1075 - Petroleum gases, liquefied or liquefied petroleum gases</li> <li>• UN 1267 - Petroleum crude oil</li> <li>• UN 1953 - Compressed gas, toxic, flammable, n.o.s.</li> <li>• UN 3161 - Liquefied gas, Flammable, n.o.s.</li> <li>• UN 1954 - Compressed gas, flammable, n.o.s.</li> <li>• UN 1964 - Hydrocarbon gases mixtures, compressed, n.o.s.</li> <li>• UN 1965 - Hydrocarbon gases mixtures, liquefied, n.o.s.</li> <li>• UN 1971 / UN 1972 - Methane, compressed or natural gas</li> <li>• UN 1053 - Hydrogen sulfide</li> </ul>
Material	Cylinder and End Caps: Inconel 725 (UNS N07725) in ANSI/NACE MR0175/ISO 15156 Sample Piston and Vortex Ring: Inconel 625 (UNS N06625) in ANSI/NACE MR0175/ISO 15156 Condition Nitrogen Piston: Stainless Steel 316 (UNS S31600) Valve Body: Nibron Valve Stem: MP35N (UNS R30035)	
Net weight	See table below	
Dimensions	See table below	
Optional certification	3rd party Inspection Release Note Hydrostatic Pressure Test Certificate, with 3rd party endorsement PED Declaration of Conformity Material certification to EN 10204: Type 3.1 for main pressure retaining components	
		<b>Standard documentation</b> <ul style="list-style-type: none"> <li>• Hydrostatic Pressure Test Certificate</li> <li>• User Instructions &amp; User spare parts list</li> <li>• Authorised Inspectors Certificate of Conformance to DOT SP-20681</li> </ul>

Cylinder options		
Net volume	Net weight	Dimensions
2000cc Cylinder Volume & 500cc Nitrogen	46kg (empty) 48kg (pre-charged water/glycol)	Cylinder Length = 1340mm, Cylinder OD = 88.9mm
1500cc Cylinder Volume & 500cc Nitrogen	42kg (empty) 43.5kg (pre-charged water/glycol)	Cylinder Length = 1167mm, Cylinder OD = 88.9mm
1000cc Cylinder Volume & 300cc Nitrogen	35kg (empty) 36kg (pre-charged water/glycol)	Cylinder Length = 926mm, Cylinder OD = 88.9mm
700cc Cylinder Volume & 300cc Nitrogen	32kg (empty) 32.7kg (pre-charged water/glycol)	Cylinder Length = 818mm, Cylinder OD = 88.9mm



# SUBSEA SAMPLE CYLINDERS





## Subsea Cylinder, Single Phase, 20K, PED, DOT



Proserv's subsea sampling cylinder has been designed to capture representative production fluid samples from a subsea environment, allowing for transportation directly to a fluid analysis laboratory without the requirement for fluid transfer. This reduces associated risk or sample loss / contamination, maintains sample integrity, limits the dangers associated with high pressure hydrocarbon transfer and reduces onsite equipment and personnel time during subsea sampling operations.



### Features and benefits

- Large volume capacity
- Designed in accordance with PED 2014/68/EU
- DOT approval under SP-20681
- Valves qualified to API 6A-PR2
- Materials complaint to ANSI/NACE MR0175/ISO 15156
- Inconel construction, suitable for severe service
- Eliminates need for transfer of sampled fluid in field

Technical specification		
Part number	108292 (2000 cc), 171112 (1500 cc) 153422 (1000 cc), 153439 (700 cc)	Approved for use under the following directive/Permit <ul style="list-style-type: none"> <li>• 2014/68/EU (PED)</li> <li>• DOT Special Permit SP-20681</li> </ul>
Net volume	See table below	
MAWP	20000 psi (1379 Bar) @ -29°C to +93°C 19200 psi (1324 Bar) @ +177°C	Standard certification <ul style="list-style-type: none"> <li>• Hydrostatic Pressure Test Certificate</li> <li>• User Instructions &amp; User spare parts list</li> <li>• Authorised Inspectors Certificate of Conformance to DOT SP-20681</li> </ul>
Design temperature	-29 °C to 177 °C	
Material	Cylinder and End Caps: Inconel 725 (UNS N07725) in ANSI/NACE MR0175/ISO 15156 API-6A Condition Sample Piston and Vortex Ring: Inconel 625 (UNS N06625) in ANSI/NACE MR0175/ISO 15156 Condition Nitrogen Piston: Stainless Steel 316 (UNS S31600) Valve Body: Nibron Valve Stem: MP35N (UNS R30035)	Service <ul style="list-style-type: none"> <li>• UN 1006 - Argon, Compressed</li> <li>• UN 1066 - Nitrogen, compressed</li> <li>• UN 1075 - Petroleum gases, liquefied or liquefied petroleum gases</li> <li>• UN 1267 - Petroleum crude oil</li> <li>• UN 1953 - Compressed gas, toxic, flammable, n.o.s.</li> <li>• UN 3161 - Liquefied gas, Flammable, N.O.S</li> <li>• UN 1954 - Compressed gas, flammable, n.o.s.</li> <li>• UN 1964 - Hydrocarbon gases mixtures, compressed, n.o.s.</li> <li>• UN 1965 - Hydrocarbon gases mixtures, liquefied, n.o.s.</li> <li>• UN 1971 / UN 1972 - Methane, compressed or natural gas</li> <li>• - UN 1053 - Hydrogen sulfide</li> </ul>
Net weight	See table below	
Dimensions	See table below	
Water depth (maximum)	3,000 m	
Optional certification	3rd party Inspection Release Note - Hydrostatic Pressure Test Certificate, with 3rd party endorsement - PED Declaration of Conformity - Material certification to EN 10204: Type 3.1 for main pressure retaining components - API 17D Hyperbaric test (3000 m) 3rd party witness	Standard documentation <ul style="list-style-type: none"> <li>• Hydrostatic test certificate</li> <li>• API-6A PR2 Proserv certificate</li> <li>• User instruction and user spare parts list</li> <li>• Hyperbaric test (3000 m) third party witness</li> </ul>
Cylinder options		
Net volume	Net weight	Dimensions
2000cc Cylinder Volume & 500cc Nitrogen	46kg (empty) 48kg (pre-charged water/glycol)	Cylinder Length = 1340mm, Cylinder OD = 88.9mm
1500cc Cylinder Volume & 500cc Nitrogen	42kg (empty) 43.5kg (pre-charged water/glycol)	Cylinder Length = 1167mm, Cylinder OD = 88.9mm
1000cc Cylinder Volume & 300cc Nitrogen	35kg (empty) 36kg (pre-charged water/glycol)	Cylinder Length = 926mm, Cylinder OD = 88.9mm
700cc Cylinder Volume & 300cc Nitrogen	32kg (empty) 32.7kg (pre-charged water/glycol)	Cylinder Length = 818mm, Cylinder OD = 88.9mm



Proserv

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