

EU CERTIFICATE OF CONFORMITY

This is to certify that Lloyd's Register Verification, a Notified Body under the terms of:
The Pressure Equipment Directive, 2014/68/EU;
The Pressure Equipment (Safety) Regulation 2016, Statutory Instrument 2016 No. 1105, did (in accordance with Module F of the Directive) undertake an EU Product Verification on the stated pressure equipment to ensure its conformity within the requirements of the Directive which apply to it. The equipment identified below was shown to comply.

This Certificate is issued to:

APPLICANT:

Faber Industrie S.p.A.
Cividale del Friuli
Udine
Italy

PRODUCT DESCRIPTION:

Seamless Steel Gas Cylinder for breathing apparatus, drawing EN-216-372-890 Rev. 0

APPLICABLE STANDARD:

EN 1964-1:1999

Quantity	Capacity (L)	Batch and Serial No	Manufacture date
100	18	19/0157/001÷100	02/2019

The seamless steel gas cylinders named above have been manufactured in accordance with EC Type Examination Certificate No CE-1370-PED-B-FAB 003-12-ITA issued by Bureau Veritas, Notified Body No 1370, on 27th March 2012.

As verified in the Manufacturer Test Certificate No: 19/0157 dated 06th February 2019 and manufacturing/production record endorsed by our Surveyors, Ref. VR PRJ1109989196/12, the final inspection and proof test in accordance with the requirements of Section 3.2 of the essential safety requirements was carried out on the above equipment.

Certificate No.: 0038/PED/PRJ1109989196/12

Date of Issue: 06th February 2019

Certificate Issue: 01

LRV Notified Body number 0038


G. Agozzino on behalf of Lloyd's Register Verification

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The Company Faber Industrie s.p.a. – Via dell'Industria, 64 - XI Zona Industriale Cividale del Friuli (UD) – ITALY,
La società Faber Industrie s.p.a. – con sede in Via dell'Industria, 64 - XI Zona Industriale Cividale del Friuli (UD) – ITALIA,

DECLARES
DICHIARA

that the manufactured pressure equipment:
che l'attrezzatura a pressione costruita:

Definition: **CYLINDER FOR BREATHING APPARATUS**
Definizione: BOMBOLE PER APPARECCHIO RESPIRATORE

Drawing N°: **EN-216-372-890 REV0**
N° disegno:

Water capacity V **18** litre/ litri
Capacità

Min. e max. allowable temperatures: **-50 + +65 °C**
Temperatura min. e max. ammissibili:

Operating fluid: **1002 AIR**
Fluido contenuto:

Max. allowable pressure: **232** bar
Pressione max. ammissibile:

Manufacturer N°/ N° di fabbrica
from/ dal **19/0157/001** to/ al **19/0157/102**

No. of cylinders / numero di bombole
98

MEETS THE REQUIREMENTS OF DIRECTIVE PED 2014/68/EU
E' CONFORME AI REQUISITI DELLA DIRETTIVA PED 2014/68/EU

1. Conformity assessment procedures used: Module **B+F** (Category **IV**)
(Module B in compliance with Annex II and III of Directive 97/23/CE
Module F in compliance with Annex II and III of Directive 2014/68/EU)
*Procedura/e di valutazione di conformità utilizzata: Modulo **B+F** (Categoria **IV**)*
(Modulo B in accordo agli allegati II e III della Direttiva 97/23/CE
Modulo F in accordo agli allegati II e III della Direttiva 2014/68/EU)
2. Notified Body charged of the conformity assessment: N° **0038 LLOYD'S REGISTER**
Organismo Notificato incaricato della valutazione di conformità: N°
3. Registration number of "CE Type Examination Certificate": **CE-1370-PED-B-FAB003-12-ITA**
Estremi dell'Attestato dell'esame CE del tipo:
4. Not harmonized standards applied to designing and manufacture: **EN 1964-1:1999**
Norme non armonizzate applicate alla progettazione ed alla costruzione:
5. Harmonized standards applied to designing and manufacture: **None**
*Norme armonizzate applicate alla progettazione ed alla costruzione: **Nessuna***
6. Others European Directives applied to the equipment: **None**
*Eventuali altre Direttive europee applicate all'attrezzatura: **Nessuna***
7. Registration number of Conformity Certificate issued by the Notified Body charged of assessment procedure
"Module F": **0038/PED/PRJ1109989196/12**
Estremi dell'Attestato di Conformità rilasciato dall'Organismo Notificato incaricato della procedura di valutazione "Modulo F":

It is declared that the equipment has been hydraulic tested with favourable result at the pressure of: (PT) **372** bar, it is marked
CE **0038** and with identification data and the working parameters upside reported.

*Dichiara inoltre che l'attrezzatura è stata sottoposta con esito favorevole a prova di pressione idraulica di : (PT) **372** bar, che è stata
marcata CE **0038** e con i dati identificativi e le caratteristiche di esercizio sopra riportati.*

The assembly must be subjected to a global conformity assessment procedure described in the directive PED 2014/68/EU.
L'insieme deve essere sottoposto ad una procedura globale di valutazione di conformità così come previsto dalla direttiva PED 2014/68/EU.

Cividale del Friuli 06/02/2019

143611 

Faber
INDUSTRIE S.p.A.
Cividale del Friuli

Manufacturer: **FABER INDUSTRIE SPA - CIVIDALE DEL FRIULI - UDINE - ITALY**Inspection: **LLOYD'S REGISTER**Specification: **EN 1964-1:1999 (PED)**Customer: **Aerotecnic Coltri S.p.A.**Owner stamping: **COLTRI SUB**

Manufacturer serial No. :

From **19/0157/001** to **19/0157/102**Gas: **1002 AIR**Total cylinders: **98**Type of cylinder: **Seamless steel gas cylinders**Material: **34CRMO4**Working pressure at 15° C: **232 bar**Working temperature: **-50° + +65° C**

Nominal data

Drawing no.	Test Pressure (bar)	Minimum Thickness		Nominal Diameter (mm)	Nominal Length without valve (mm)	Nominal Water Capacity (l)	Nominal Weight (Kg)
		wall (mm)	base (mm)				
EN-216-372-890 REV0	372	5.7	5.7	216	655	18	21.5

We hereby certify that the cylinders of the batch no. **19/0157** comply with the following requirementsManufacturing process: cylinders manufactured from **plate**Neck thread : **M25X2 EN 144-1 2000**Identification marks stamped on cylinders shoulder according to drawing: **PPED004 2**

Minimum cylindrical shell thickness:

The wall thickness of all cylinders has been measured and found to be not less than : **5.7 mm**

Hardness range:

All cylinders have been controlled within the following hardness values: **Min 306 HB, Max 333 HB**

Heat treatment:

All cylinders have been heat treated at the following temperatures:

Liquid quench: **900 °C ± 20 °C**Temper at: **570 °C ± 30 °C**

Chemical analysis:

Material: **34CRMO4**The cylinders of the batch no. **19/0157** have been manufactured from the following cast(s) of steel:

Cast Numb.	Code (*)	C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Mo (%)	S+P (%)
20841	DUU	0.35	0.23	0.75	0.006	0.001	1.08	0.22	0.007

(*)marked on outer bottom surface

In case of use with compressed air and its mixture, synthetic air may be used and special precautions are required to avoid condensation of moisture in the cylinder.

Lloyd's Register verification Limited
For and on behalf of A.I.A.
Andrea Ghersi
Venice OfficeDate: **06/02/2019**

For and on behalf of the manufacturer:

Faber
INDUSTRIE S.p.A.
Cividal del Friuli

06/02/2019

MEASUREMENTS OF SAMPLE CYLINDERS:

Cylinder Serial no.	Water Capacity (L)	Empty Weight (Kg)	Minimum measured thickness	
			of the wall (mm)	of the base (mm)
19/0157/101	18	21.70	5.9	5.9
19/0157/102	18	21.30	5.9	5.9

MECHANICAL TESTS CARRIED OUT ON SAMPLE CYLINDERS:

Cylinder Serial no.	Code (*)	Test piec dimension (mm)	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact test -50 °C			Bend test 180° without cracking
						Direction	Individual (J/cm²)	Mean (J/cm²)	
19/0157/101	DUU	9.9 x 6.1	973	1076	17.3	TRASV	38 35 40	38	SATISF.
Minimum values specified			890	990	14		28	35	

BURST TESTS CARRIED OUT ON SAMPLE CYLINDERS:

Cylinder Serial no.	Code (*)	Hydraulic burst test bar	Description of the fracture
19/0157/102	DUU	682	LONGITUDINAL
Minimum values specified		596	

For and on behalf of the manufacturer:

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INDUSTRIE S.p.A.
Civitate del Friuli

For and on behalf of A.I.A.



TESTING OBJECT:

CYLINDER ACCORDING TO DRAWING: **EN-216-372-890 REV0**

OUTSIDE DIAMETER: **216 mm** WATER CAPACITY: **18 l**

MIN. WALL THICKNESS: **5.7 mm** NOMINAL LENGTH: **655 mm**

FROM CYLINDER SERIAL No.: **19/0157/001** to **19/0157/102**

TEST TECHNICAL DATA:

EXAMINATION STANDARD: **EN 1964-1**

INSPECTED PART: **CYLINDRICAL WALL**

EXTENTION OF EXAMINATION: **100 %**

FABRICATION STAGE: **AFTER HEAT TREATMENT (QUENCHING AND TEMPERING), SHOT BLASTING
AND BEFORE PRESSURE TESTING**

PROBES: **LONGITUDINAL, TRANSVERSAL AND THICKNESS**

COUPLANT: **EMULSIFIED WATER**

SCANNING DIRECTION: **CIRCUMFERENTIAL, AXIAL AND RADIAL DIRECTIONS**

REFERENCE REFLECTOR: **CALIBRATION CYLINDER ACCORDING TO EN 1964-1**

EXAMINATION RESULTS:

ALL CYLINDERS HAVE BEEN CHECKED GIVING SATISFACTORY RESULTS.

For and on behalf of the manufacturer:

Faber
INDUSTRIE S.p.A.
Cividale del Friuli

For and on behalf of A.I.A.



LOT No. 19/0157 NUMBER OF CYLINDERS: 38 TEST DATE: 02/2019
 ACCORDING TO DWG.: EN-215-372-890 REV0
 WORKING PRESSURE AT 15° C: 232 bar HOLDING TIME AT TEST PRESSURE: 30 sec
 CYLINDER SIZE: OUTSIDE DIAMETER 216 mm LENGTH 655 mm
 REMARKS: M = Mechanical Tests, B = Burst Tests, P = Prototype Tests, S = Cylinder Discarded, C = Cycling Test,
 C+B = Cycling + Burst Test, F = Flattening Test.
 FITTINGS: "CO" = Collar

CYLINDER SERIAL No.	CUSTOMER NUMBER	HEAT CODE AND NUMBER	TEST PRESSURE (bar)	CYLINDER WATER CAPACITY (l)	FITTINGS	MASS (Kg)	TARE (Kg)	REMARKS
19/0157/001		DUU 20841	372	18.0		21.7		
19/0157/002		DUU 20841	372	18.0		21.7		
19/0157/003		DUU 20841	372	18.0		21.7		
19/0157/004		DUU 20841	372	18.0		21.7		
19/0157/005		DUU 20841	372	18.0		21.7		
19/0157/006		DUU 20841	372	18.0		21.7		
19/0157/007		DUU 20841	372	18.0		21.7		
19/0157/008		DUU 20841	372	18.0		21.8		
19/0157/009		DUU 20841	372	18.0		21.7		
19/0157/010		DUU 20841	372	18.0		21.7		
19/0157/011		DUU 20841	372	18.0		21.7		
19/0157/012		DUU 20841	372	18.0		21.7		
19/0157/013		DUU 20841	372	18.0		21.7		
19/0157/014		DUU 20841	372	18.0		21.7		
19/0157/015		DUU 20841	372	18.0		21.7		
19/0157/016		DUU 20841	372	18.0		21.8		
19/0157/017		DUU 20841	372	18.0		21.8		
19/0157/018		DUU 20841	372	18.0		21.7		
19/0157/019		DUU 20841	372	18.0		21.7		
19/0157/020		DUU 20841	372	18.0		21.7		
19/0157/021		DUU 20841	372	18.0		21.7		
19/0157/022		DUU 20841	372	18.0		21.7		
19/0157/023		DUU 20841	372	18.0		21.7		
19/0157/024		DUU 20841	372	18.0		21.6		
19/0157/025		DUU 20841	372	18.0		21.8		
19/0157/026		DUU 20841	372	18.0		21.7		
19/0157/027		DUU 20841	372	18.0		21.7		
19/0157/028		DUU 20841	372	18.0		21.7		
19/0157/029		DUU 20841	372	18.0		21.8		
19/0157/030		DUU 20841	372	18.0		21.7		
19/0157/031		DUU 20841	372	18.0		21.7		
19/0157/032		DUU 20841	372	18.0		21.7		
19/0157/033		DUU 20841	372	18.0		21.7		
19/0157/034		DUU 20841	372	18.0		21.8		
19/0157/035		DUU 20841	372	18.0		21.7		
19/0157/036		DUU 20841	372	18.0		21.8		
19/0157/037		DUU 20841	372	18.0		21.3		
19/0157/039		DUU 20841	372	18.0		21.7		
19/0157/040		DUU 20841	372	18.0		21.7		
19/0157/041		DUU 20841	372	18.0		21.7		

Manufacturer stamp and signature:

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INDUSTRIE S.p.A.
 Cividate del Friuli

A.I.A. stamp and signature:

Lloyd's Register Verification Limited
 A member of the Lloyd's Register Group
 Verifier's Office *Andrea Gherardini*

LOT No. 19/0157 NUMBER OF CYLINDERS: 98 TEST DATE: 02/2019
 ACCORDING TO DWG.: EN-216-372-890 REV0
 WORKING PRESSURE AT 15° C: 232 bar HOLDING TIME AT TEST PRESSURE : 30 sec
 CYLINDER SIZE : OUTSIDE DIAMETER 216 mm LENGTH 655 mm
 REMARKS: M = Mechanical Tests, B = Burst Tests, P = Prototype Tests, S = Cylinder Discarded, C = Cycling Test,
 C+B = Cycling + Burst Test, F = Flattening Test.
 FITTINGS : "CO" = Collar

CYLINDER SERIAL No.	CUSTOMER NUMBER	HEAT CODE AND NUMBER	TEST PRESSURE (bar)	CYLINDER WATER CAPACITY (l)	FITTINGS	MASS (Kg)	TARE (Kg)	REMARKS
19/0157/042		DUU 20841	372	18.0		21.7		
19/0157/043		DUU 20841	372	18.0		21.7		
19/0157/044		DUU 20841	372	18.0		21.8		
19/0157/045		DUU 20841	372	18.0		21.7		
19/0157/046		DUU 20841	372	18.0		21.8		
19/0157/047		DUU 20841	372	18.0		21.7		
19/0157/048		DUU 20841	372	18.0		21.7		
19/0157/049		DUU 20841	372	18.0		21.7		
19/0157/050		DUU 20841	372	18.0		21.7		
19/0157/051		DUU 20841	372	18.0		21.7		
19/0157/052		DUU 20841	372	18.0		21.7		
19/0157/053		DUU 20841	372	18.0		21.7		
19/0157/054		DUU 20841	372	18.0		21.8		
19/0157/055		DUU 20841	372	18.0		21.6		
19/0157/056		DUU 20841	372	18.0		21.7		
19/0157/058		DUU 20841	372	18.0		21.7		
19/0157/059		DUU 20841	372	18.0		21.7		
19/0157/060		DUU 20841	372	18.0		21.8		
19/0157/061		DUU 20841	372	18.0		21.7		
19/0157/062		DUU 20841	372	18.0		21.8		
19/0157/063		DUU 20841	372	18.0		21.8		
19/0157/064		DUU 20841	372	18.0		21.8		
19/0157/065		DUU 20841	372	18.0		21.7		
19/0157/066		DUU 20841	372	18.0		21.7		
19/0157/067		DUU 20841	372	18.0		21.7		
19/0157/068		DUU 20841	372	18.0		21.7		
19/0157/069		DUU 20841	372	18.0		21.7		
19/0157/070		DUU 20841	372	18.0		21.8		
19/0157/071		DUU 20841	372	18.0		21.7		
19/0157/072		DUU 20841	372	18.0		21.8		
19/0157/073		DUU 20841	372	18.0		21.8		
19/0157/074		DUU 20841	372	18.0		21.7		
19/0157/075		DUU 20841	372	18.0		21.8		
19/0157/076		DUU 20841	372	18.0		21.7		
19/0157/077		DUU 20841	372	18.0		21.7		
19/0157/078		DUU 20841	372	18.0		21.7		
19/0157/079		DUU 20841	372	18.0		21.7		
19/0157/080		DUU 20841	372	18.0		21.8		
19/0157/081		DUU 20841	372	18.0		21.7		
19/0157/082		DUU 20841	372	18.0		21.7		

Manufacturer stamp and signature:

Faber
INDUSTRIE S.p.A.
 Cividale del Friuli

A.I.A. stamp and signature:

Lloyd's Register Verification Limited
 A member of the Lloyd's Register Group
☒ Witnessed ☐ Monitored ☒ Reviewed
 Andree Ghersin
 Venice Office

143611

FITTINGS : "CO" = Collar

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Andrew Chersin
Veridian Office

Andrew Chersin

Istruzioni operative per il montaggio, la messa in servizio, l'impiego, la manutenzione e le visite periodiche delle bombole in acciaio per autorespiratori subacquei (PED 2014/68/EU).

-La bombola per l'apparecchio respiratore è soggetta ai regolamenti e alle norme per l'uso, manutenzione e le ispezioni periodiche, vigenti nel paese in cui viene utilizzata. E' responsabilità del proprietario della bombola eseguire le visite periodiche siano entro i termini prefissati. Si raccomanda di sottoporre la bombola ad un controllo visivo interno ed esterno da personale competente almeno una volta l'anno.

-L'insieme (costituito da varie attrezzature a pressione montate per costruire un tutto integro e funzionale "apparecchio respiratore") deve soddisfare i requisiti essenziali di sicurezza di cui all'allegato I della direttiva PED 2014/68/EU.

-L'insieme deve essere sottoposto ad una procedura globale di valutazione di conformità così come previsto dalla direttiva PED 2014/68/EU.

-E' di importanza vitale avere sempre estrema attenzione alla cura e alla manutenzione della bombola per respiratori subacquei. E' essenziale che il respiratore subacqueo sia accuratamente esaminato per verificare l'eventuale presenza di danneggiamenti o difetti dopo ogni utilizzo. Tutti i difetti devono essere eliminati prima che il respiratore subacqueo venga di nuovo utilizzato. La mancanza di cura durante la manipolazione, con attrezzatura impropria, può non solo innescare difetti pericolosi, ma rendere le successive manutenzioni costose o addirittura impossibili.

- Le bombole devono essere manipolate con cura non devono essere fatte cadere. Quando trasportate devono essere bloccate in maniera sicura in modo tale che non si muovano durante il trasporto.

-Le condizioni della superficie interna delle bombole possono essere mantenute integre solo se la superficie interna rimane sempre asciutta. La bombola deve essere caricata con aria secca (contenuto d'acqua < 50 mg/m³ per una pressione di carica di 200 bar e contenuto d'acqua < 35mg/m³ per una pressione di carica maggiore di 200 bar, secondo EN12021) e non deve mai essere completamente scaricata in quanto dell'acqua potrebbe essere risucchiata all'interno della bombola contaminandola. Le bombole devono essere immagazzinate, preferibilmente in posizione verticale, in un posto fresco, secco e lontano da fonti di calore.

-Dopo l'uso, soprattutto in acqua di mare, dalla bombola devono essere tolti le cinghie e il fondello e accuratamente lavata con acqua dolce al fine di rimuovere le tracce di acqua salata e lo sporco, specialmente dalle cavità e poi asciugata. Prima dell'immagazzinamento, o quando la bombola è stata completamente scaricata e l'acqua di mare può essere

Operating instructions for the mounting, putting into service, use, maintenance and periodic inspection of Faber Steel Cylinders for Scuba Diving (PED 2014/68/EU).

-The cylinder for breathing apparatus is subjected to the national regulations and standards for the use, maintenance and periodic inspection, in force in the country of use. The owner of pressure equipment is responsible that periodical inspections are carried out as required by the national regulation and standards. It is recommended that the cylinder will be inspected visually (internally and externally) by a competent person at least annually.

-The assembly (that means several pieces of pressure equipment assembled to constitute an integrated and functional whole "breathing apparatus") must satisfy the essential safety requirements set out in Annex I of the directive PED 2014/68/EU.

-The assembly shall be subjected to a global conformity assessment procedure described in the directive PED 2014/68/EU.

-Strict attention to care and maintenance of all types of breathing apparatus used underwater is of vital importance at all times.

It is essential that the complete equipment be thoroughly examined for damage or defect before and after every occasion on which it is used. All defects should be rectified before the equipment is used again. Careless manipulation with inappropriate tools may not only give rise to dangerous defects, but render further maintenance expensive or impossible.

- Cylinders should be handled with care and should not be dropped. When being transported they should be firmly secured so that they cannot move about.

- The condition of the inside of the cylinder can be maintained by keeping it dry at all times. The cylinder should be filled with dry air (Water content < 50 mg/m³ for a charging pressure of 200 bar and water content < 35mg/m³ for a charging pressure greater than 200 bar, as for EN12021), and never completely discharged as this can lead to water getting back into the cylinder and causing contamination.

Cylinders should be stored, preferably in the vertical position, in a cool, dry place and away from excessive heat.

-After use, particularly in seawater, the outside surface of the cylinder should be removed from its harness and boot and then washed in clean, fresh water to remove all traces of salt water and dirt, especially from any crevices and then dried.

Before storage, or when the cylinder has been completely discharged and seawater may have entered the cylinder,

entrata nella bombola, la valvola deve essere rimossa dalla bombola e la bombola deve essere lavata internamente ed esternamente con acqua dolce e accuratamente asciugata. Questa operazione deve essere normalmente fatta da personale competente. Mai svitare o rimuovere la valvola con la bombola in pressione. La bombola non deve essere immagazzinata con la valvola rivolta all'ingiù. L'azione corrosiva dell'acqua di mare non deve essere mai sottovalutata, se non vengono prese opportune precauzioni per la pulizia delle bombole dopo l'utilizzo, seri danni potranno essere arrecati alla bombola durante il periodo in cui rimarrà inutilizzata. Anche se si fanno immersioni in acqua dolce, ci possono essere delle sostanze corrosive in soluzione quali rifiuti chimici e oleosi che non sono visibili al momento, ma che possono innescare una azione corrosiva se lasciate a contatto con la bombola.

- La verniciatura, la metallizzazione e i componenti devono essere mantenuti in buone condizioni. Abrasioni e graffi delle bombole devono essere evitate. Per la rimozione della vernice non devono essere utilizzati metodi chimici o a caldo. Zone di corrosione della bombola possono essere eliminate solo secondo le normative nazionali applicabili (Es.: BS 5430). Dopo la necessaria preparazione, la bombola può essere riverniciata. La bombola non deve essere modificata in nessuna circostanza. Questo può comportare seri indebolimenti della bombola e portare ad incidenti. La filettatura della bombola non deve essere alterata in alcun modo. Boccole o adattatori non devono essere utilizzati. Se la bombola non viene utilizzata per un lungo periodo di tempo si raccomanda che debba essere vista da personale competente per essere scaricata e successivamente ricaricata con una leggera pressione positiva. Se la bombola non viene ricaricata subito, deve essere lasciata con la valvola chiusa. Una bombola che è risultata scarta all'ispezione deve essere resa inutilizzabile da personale competente.

- La ricarica deve essere fatta solo con idonei impianti che assicurino che l'aria compressa sia esente da umidità, olio e altre impurità, e che è adeguata all'utilizzo per respiratori subacquei.

Mai caricare ossigeno o altri gas diversi dall'aria nelle bombole per aria.

Prima della carica della bombola, è responsabilità della ditta o persona che esegue la carica verificare che la bombola sia conforme ai regolamenti nazionali in vigore. E' essenziale che le bombole siano caricate con attenzione e lentamente al fine di prevenire sovraccariche e surriscaldamenti, e che la pressione di carica sia tale che, dopo raffreddamento a temperatura ambiente, la pressione di carica della bombola non sia superata. La pressione di esercizio massima ammissibile a 15°C ed espressa in bar è punzonata sulla bombola. Sovraccaricare le bombole è altamente pericoloso. L'identificazione della sigla della filettatura della bombola è punzonata sulla bombola. Utilizzare valvole con filettatura diversa è vietato perché altamente pericoloso.

the cylinder valve should be removed and the cylinder washed internally and externally in clean fresh water and thoroughly dried. This operation should normally be undertaken by a competent person. Never unscrew or remove the valve when the cylinder is under pressure.

The cylinder should not be stored with the valve downwards.

The corrosion action of seawater and water-borne contaminants should never be underestimated, and if precautions are not taken to clean the apparatus properly after use, serious damage may be caused to all parts of the apparatus while it is stowed away. Even when diving in apparently fresh water, there may be corrosive substances in solution such as chemical and petroleum wastes which are not noticeable at the time, but which will start corrosive action if left in contact with the apparatus.

- The paintwork, metal spray undercoating and fittings should be kept in good condition. Scratching of cylinders should be avoided. Heat or chemical process may not be used to remove old paint. Corrosion on cylinders should also be removed in accordance with national standards in force in the country of use (Eg.: BS 5430). After the necessary preparation, cylinders should be re-painted. Cylinders should not be modified under any circumstance. This may result in serious weakening of cylinder and lead to accident. The threads in the cylinder neck should not be altered in any way. Bushes or adapters should not be used. If the cylinder is not required for a long period it is recommended that it be returned to a competent person for discharging, removal of the valve, extraction of any oil or water, drying out and refitting of the valve. The cylinder should then be recharged to a slight positive pressure. If the cylinder is not to be recharged immediately, it should be left with the valve closed. A cylinder that has failed on inspection should be left with a competent person who will then destroy it.

- Recharging should be undertaken only with proper equipment that ensures that the compressed air is free from moisture, oil and other impurities, and is fit for breathing purposes. Never put oxygen or any gas, other than air, in an air cylinder.

Before recharging a cylinder, it is the responsibility of the gas compressing firm or person to ensure that the cylinder complies with statutory regulations.

It is essential that cylinders be charged carefully and slowly to prevent overcharging and overheating, and that the charging pressure be such that, after cooling to ambient temperature, the maximum allowable pressure for the cylinder is not exceeded.

The maximum allowable pressure at 15°C, in bar, is stamped on the cylinder.

Overcharging of cylinders is highly dangerous.

The identification code of the neck thread is stamped on the cylinder. Use of valves with different threads are forbidden because highly dangerous.