CARBON CYLINDER®
Lightness & Innovation

DECLARATION OF CONFORMITY – DICHIARAZIONE DI CONFORMITÀ

According to the European directive PED 2014/68/UE
Ai sensi della direttiva Europea PED 2014/68/UE

The company Carbon Cylinder Srl situated in Mira (VE) IT – Via Maestri del lavoro, 10/B
La società Carbon Cylinder Srl con sede a Mira (VE) IT – Via Maestri del lavoro, 10/B

DECLARES – DICHIARA
That the manufactured pressure equipment
Che l'attrezzatura a pressione costruita

Definition: Definizione:	CYLINDER FOR BREATHING AIR [Fully wrapped composite cylinders type 4] BOMBOLE PER ARIA RESPIRABILE [Bombole in materiale composito interamente ricoperte di tipo 4]		Drawing: Disegno:	0090L_300bar rev0
Water capacity (litre) Capacità (litri)	9,0		Min. Max allowable temperatures(°C) Temperatura min. e max. ammissibili (°C)	-40/60
Operating fluid: Fluido contenuto:	1002 air		Max. allowable pressure at 15 °C (bar) Max. pressione ammissibile a 15 °C (bar)	300
Serial number N° matricola	From (dal) To (al)	25/PE01/0090BA01203 25/PE01/0090BA01404	Number of cylinders Numero di bombole	200

MEETS THE REQUIREMENTS OF DIRECTIVE 2014/68/UE
È CONFORME A QUANTO STABILITO DALLA DIRETTIVA 2014/68/UE

1) Conformity assessment procedures used: Procedura di valutazione di conformità utilizzata	**Module B+F (Category III)**
2) Notified body charged of the conformity assessment n° Organismo notificato incaricato per valutazione di conformità n°	**1370 BUREAU VERITAS ITALIA** **Viale Monza 347, 20126 MILANO**
3) Registration number of "CE" type Examination certificate: Estremi dell'"Attestato dell'esame CE del tipo":	**CE-1370-PED-B3.1-CCR 004-24-ITA**
4) Standards applied to designing and manufacture: Norme applicate a progettazione e costruzione:	**EN 12245:2011**
5) Other European Directives applied to the equipment: Eventuali altre Direttive Europee applicate all'attrezzatura:	**None**

It is declared the equipment has been hydraulic tested with favorable result at the pressure of (PT/PH) 450 bar, it is marked CE 1370 and with identification data and the working parameters upside reported.
Dichiara inoltre che l'attrezzatura è stata sottoposta con esito favorevole alla prova di pressione idraulica di PT/PH 450 bar, che è stata marcata CE 1370 e con i dati identificativi e le caratteristiche di esercizio sopra riportati.
If the cylinder will be part of an assembly, this shall be subjected to global conformity assessment procedure described in the directive 2014/68/UE.
Se la bombola farà parte di un insieme, questo dovrà essere sottoposto ad una procedura globale di valutazione di conformità così come previsto dalla direttiva 2014/68/UE.

Mira (VE) 05/06/2025

Legal Representative
Rappresentante legale

CARBON CYLINDER
via Maestri del Lavoro, 10/B
30034 Gambarare di Mira (VE) - ITALIA
Partita IVA 04619300272
info@carboncylinder.com - +39 041.5713854

CARBON CYLINDER®
Lightness & Innovation

Inspection body	Bureau Veritas Italia	Inspection body's mark	CE 1370
Module F.	PE01/2025	Date	05/06/2025
Cylinders Manufactured by / Mark	Carbon Cylinder Srl	Country	Italy
Type approval	CE-1370-PED-B3.1-CCR 004-24-ITA	Specification	EN 12245:2011
Cylinders Description	CYLINDER FOR BREATHING AIR [Fully wrapped composite cylinders type 4] BOMBOLE PER ARIA RESPIRABILE [Bombole in materiale composito tipo 4]		
Water Capacity [L]	9,0	Test pressure [bar]	450
Design life	Non Limited Life		
Additional Design			
Manufacturer's part no.	CC_9.0L_300bar	Manufacturing batch no.	25/PE01
Quantity	201		
Serial number	from 25/PE01/0090BA01203	to	25/PE01/0090BA01404

Each cylinder was manufactured on accordance with the EN 12245:2011 requirements and the design defined in the type approval or design variant approval.

All the materials used in the cylinders manufacture were identified by indicidual batch numbers an their properties were verified that they complied with the specification and approved design requirements.

The following materials were used in the manifacture of these cylinders:

Fibers			
Fiber Type	Fiber descrition	Batch No.	Tensile Strength [MPa]
Carbon fiber	TEIJIN ITS50 F23 24K	230840110	5100
Resin System Components			
Resin & Designation		Curing Agent & Designation	
Supplier	Batch No.	Supplier	Batch No.
OLIN 2130E	3005NCK353	OLIN 2142H	3501O65001
Composite Material			
Minimum Tensile Strength for acceptance [MPa]		Detected Tensile Strength [MPa]	
3200		3367	

Date Data	Independent Inspection Authority Autorità ispettiva indipendente	CARBON CYLINDER CEO Lightness & Innovation via Maestri del Lavoro, 10/B 30034 Gambarare di Mira (VE) - ITALIA Partita IVA 04619300272 info@carboncylinder.com - +39 041.5713854
05/06/2025	BUREAU VERITAS ITALIA WITNESSED NOTED REVIEWED SURVEYOR ROSINA L. DATE 05 JUN 2025	

Finished Cylinder: Cycling Test			
Serial No.	**Test Pressure [bar]**	**No. Of Cycles**	**Cycle Frequency [cycle/min]**
24/001/0090BA01013	450	12.000	8

Finished Cylinder: Bursting Test			
Serial No.	**Min. Burst Pressure [bar]**	**Actual Burst Pressure [bar]**	**Mode of failure**
25/PE01/0090BA01258	900	926	See annex - Burst test certificate

Weighing and dimensinal checks			
Quantity of weighing	**Avarage weight [kg]**	**Minimum weight [kg]**	**Maximum weight [kg]**
21	3,7	3,64	3,80
Diameter check	**Lenght check**	**Water capacity check**	**Marking compliance**
>10,4%	>10,4%	>10,4%	100%
Criteria according to EN 12245:2011: Weight >10%, Diameter >10%, Lenght >10%, Water capacity >10% and Marking compliance >100%			

BATCH SERIAL NUMBERS TEST LIST

Serial No.	Hydraulic Test pressure 450 bar	Internal, external, marking visual insepction	Proof test date (dd/mm/yy)	Fibre batch No.	Resin and Curing Agent batch No.	Serial No.	Hydraulic Test pressure 450 bar	Internal, external, marking visual insepction	Proof test date (dd/mm/yy)
25/PE01/0090BA01203	PASS	YES	03/06/2025	CONFIDENTIAL: DATA REGISTERED AND APPROVED BY NOTIFIED BODY VIA CARBON CYLINDER SRL BATCH TESTING CERTIFICATE - BACK DATA FORM	CONFIDENTIAL: DATA REGISTERED AND APPROVED BY NOTIFIED BODY VIA CARBON CYLINDER SRL BATCH TESTING CERTIFICATE - BACK DATA FORM	25/PE01/0090BA01238	PASS	YES	03/06/2025
25/PE01/0090BA01204	PASS	YES	03/06/2025			25/PE01/0090BA01239	PASS	YES	03/06/2025
25/PE01/0090BA01205	PASS	YES	03/06/2025			25/PE01/0090BA01240	PASS	YES	03/06/2025
25/PE01/0090BA01206	PASS	YES	03/06/2025			25/PE01/0090BA01241	PASS	YES	03/06/2025
25/PE01/0090BA01207	PASS	YES	03/06/2025			25/PE01/0090BA01242	PASS	YES	03/06/2025
25/PE01/0090BA01208	PASS	YES	03/06/2025			25/PE01/0090BA01243	PASS	YES	03/06/2025
25/PE01/0090BA01209	PASS	YES	03/06/2025			25/PE01/0090BA01244	PASS	YES	03/06/2025
25/PE01/0090BA01210	PASS	YES	03/06/2025			25/PE01/0090BA01245	PASS	YES	03/06/2025
25/PE01/0090BA01211	PASS	YES	03/06/2025			25/PE01/0090BA01246	PASS	YES	03/06/2025
25/PE01/0090BA01212	PASS	YES	03/06/2025			25/PE01/0090BA01247	PASS	YES	03/06/2025
25/PE01/0090BA01213	PASS	YES	03/06/2025			25/PE01/0090BA01248	PASS	YES	03/06/2025
25/PE01/0090BA01214	PASS	YES	03/06/2025			25/PE01/0090BA01249	PASS	YES	03/06/2025
25/PE01/0090BA01215	PASS	YES	03/06/2025			25/PE01/0090BA01250	PASS	YES	03/06/2025
25/PE01/0090BA01216	PASS	YES	03/06/2025			25/PE01/0090BA01251	PASS	YES	03/06/2025
25/PE01/0090BA01217	PASS	YES	03/06/2025			25/PE01/0090BA01252	PASS	YES	03/06/2025
25/PE01/0090BA01218	PASS	YES	03/06/2025			25/PE01/0090BA01253	PASS	YES	03/06/2025
25/PE01/0090BA01219	PASS	YES	03/06/2025			25/PE01/0090BA01254	PASS	YES	03/06/2025
25/PE01/0090BA01220	PASS	YES	03/06/2025			25/PE01/0090BA01255	PASS	YES	03/06/2025
25/PE01/0090BA01221	PASS	YES	03/06/2025			25/PE01/0090BA01256	PASS	YES	03/06/2025
25/PE01/0090BA01222	PASS	YES	03/06/2025			25/PE01/0090BA01257	PASS	YES	03/06/2025
25/PE01/0090BA01223	PASS	YES	03/06/2025			25/PE01/0090BA01258	PASS	B	03/06/2025
25/PE01/0090BA01224	PASS	YES	03/06/2025			25/PE01/0090BA01259	PASS	YES	03/06/2025
25/PE01/0090BA01225	PASS	YES	03/06/2025			25/PE01/0090BA01260	PASS	YES	03/06/2025
25/PE01/0090BA01226	PASS	YES	03/06/2025			25/PE01/0090BA01261	PASS	YES	03/06/2025
25/PE01/0090BA01227	PASS	YES	03/06/2025			25/PE01/0090BA01262	PASS	YES	03/06/2025
25/PE01/0090BA01228	PASS	YES	03/06/2025			25/PE01/0090BA01263	PASS	YES	03/06/2025
25/PE01/0090BA01229	PASS	YES	03/06/2025			25/PE01/0090BA01264	PASS	YES	03/06/2025
25/PE01/0090BA01230	PASS	YES	03/06/2025			25/PE01/0090BA01265	PASS	YES	03/06/2025
25/PE01/0090BA01231	PASS	YES	03/06/2025			25/PE01/0090BA01266	PASS	YES	03/06/2025
25/PE01/0090BA01232	PASS	YES	03/06/2025			25/PE01/0090BA01267	PASS	YES	03/06/2025
25/PE01/0090BA01233	PASS	YES	03/06/2025			25/PE01/0090BA01268	PASS	YES	03/06/2025
25/PE01/0090BA01234	PASS	YES	03/06/2025			25/PE01/0090BA01269	PASS	YES	03/06/2025
25/PE01/0090BA01235	PASS	YES	03/06/2025			25/PE01/0090BA01270	PASS	YES	03/06/2025
25/PE01/0090BA01236	PASS	YES	03/06/2025			25/PE01/0090BA01271	PASS	YES	03/06/2025
25/PE01/0090BA01237	PASS	YES	03/06/2025			25/PE01/0090BA01272	PASS	YES	03/06/2025

B = Burst ; C = Cyclic

Transducer CC Prova Idraulica Trafag (0-600 bar) S.N. 901501-004

Date Data	Independent Inspection Authority Autorità ispettiva indipendente	CEO CARBON CYLINDER Lightness & Innovation
05/06/2025	BUREAU VERITAS ITALIA WITNESSED AND REVIEWED SURVEYOR ROSINA L. DATE 05 JUN 2025	via Maestri del Lavoro, 10/B 30034 Gambarare di Mira (VE) - ITALIA Partita IVA 04619300272 info@carboncylinder.com - +39 041.5713854

Serial No.	Hydraulic Test pressure 450 bar	Internal, external, marking visual insepction	Proof test date (dd/mm/yy)	Fibre batch No.	Resin and Curing Agent batch No.	Serial No.	Hydraulic Test pressure 450 bar	Internal, external, marking visual insepction	Proof test date (dd/mm/yy)
25/PE01/0090BA01273	PASS	YES	03/06/2025	CONFIDENTIAL: DATA REGISTERED AND APPROVED BY NOTIFIED BODY VIA CARBON CYLINDER SRL BATCH TESTING CERTIFICATE - BACK DATA FORM	CONFIDENTIAL: DATA REGISTERED AND APPROVED BY NOTIFIED BODY VIA CARBON CYLINDER SRL BATCH TESTING CERTIFICATE - BACK DATA FORM	25/PE01/0090BA01324	PASS	YES	03/06/2025
25/PE01/0090BA01274	PASS	YES	03/06/2025			25/PE01/0090BA01325	PASS	YES	03/06/2025
25/PE01/0090BA01275	PASS	YES	03/06/2025			25/PE01/0090BA01326	PASS	YES	03/06/2025
25/PE01/0090BA01276	PASS	YES	03/06/2025			25/PE01/0090BA01327	PASS	YES	03/06/2025
25/PE01/0090BA01277	PASS	YES	03/06/2025			25/PE01/0090BA01328	PASS	YES	03/06/2025
25/PE01/0090BA01278	PASS	YES	03/06/2025			25/PE01/0090BA01329	PASS	YES	03/06/2025
25/PE01/0090BA01279	PASS	YES	03/06/2025			25/PE01/0090BA01330	PASS	YES	03/06/2025
25/PE01/0090BA01280	PASS	YES	03/06/2025			25/PE01/0090BA01331	PASS	YES	03/06/2025
25/PE01/0090BA01281	PASS	YES	03/06/2025			25/PE01/0090BA01332	PASS	YES	03/06/2025
25/PE01/0090BA01282	PASS	YES	03/06/2025			25/PE01/0090BA01333	PASS	YES	03/06/2025
25/PE01/0090BA01283	PASS	YES	03/06/2025			25/PE01/0090BA01334	PASS	YES	03/06/2025
25/PE01/0090BA01284	PASS	YES	03/06/2025			25/PE01/0090BA01335	PASS	YES	03/06/2025
25/PE01/0090BA01285	PASS	YES	03/06/2025			25/PE01/0090BA01336	PASS	YES	03/06/2025
25/PE01/0090BA01286	PASS	YES	03/06/2025			25/PE01/0090BA01337	PASS	YES	03/06/2025
25/PE01/0090BA01287	PASS	YES	03/06/2025			25/PE01/0090BA01338	PASS	YES	03/06/2025
25/PE01/0090BA01288	PASS	YES	03/06/2025			25/PE01/0090BA01339	PASS	YES	03/06/2025
25/PE01/0090BA01289	PASS	YES	03/06/2025			25/PE01/0090BA01340	PASS	YES	03/06/2025
25/PE01/0090BA01290	PASS	YES	03/06/2025			25/PE01/0090BA01341	PASS	YES	03/06/2025
25/PE01/0090BA01291	PASS	YES	03/06/2025			25/PE01/0090BA01342	PASS	YES	03/06/2025
25/PE01/0090BA01292	PASS	YES	03/06/2025			25/PE01/0090BA01343	PASS	YES	03/06/2025
25/PE01/0090BA01293	PASS	YES	03/06/2025			25/PE01/0090BA01344	PASS	YES	03/06/2025
25/PE01/0090BA01294	PASS	YES	03/06/2025			25/PE01/0090BA01345	PASS	YES	03/06/2025
25/PE01/0090BA01295	PASS	YES	03/06/2025			25/PE01/0090BA01346	PASS	YES	03/06/2025
25/PE01/0090BA01296	PASS	YES	03/06/2025			25/PE01/0090BA01347	PASS	YES	03/06/2025
25/PE01/0090BA01297	PASS	YES	03/06/2025			25/PE01/0090BA01348	PASS	YES	03/06/2025
25/PE01/0090BA01298	PASS	YES	03/06/2025			25/PE01/0090BA01349	PASS	YES	03/06/2025
25/PE01/0090BA01299	PASS	YES	03/06/2025			25/PE01/0090BA01350	PASS	YES	03/06/2025
25/PE01/0090BA01300	PASS	YES	03/06/2025			25/PE01/0090BA01351	PASS	YES	03/06/2025
25/PE01/0090BA01301	PASS	YES	03/06/2025			25/PE01/0090BA01352	PASS	YES	03/06/2025
25/PE01/0090BA01302	PASS	YES	03/06/2025			25/PE01/0090BA01353	PASS	YES	03/06/2025
25/PE01/0090BA01303	PASS	YES	03/06/2025			25/PE01/0090BA01354	PASS	YES	03/06/2025
25/PE01/0090BA01304	PASS	YES	03/06/2025			25/PE01/0090BA01355	PASS	YES	03/06/2025
25/PE01/0090BA01305	PASS	YES	03/06/2025			25/PE01/0090BA01356	PASS	YES	03/06/2025
25/PE01/0090BA01306	PASS	YES	03/06/2025			25/PE01/0090BA01357	PASS	YES	04/06/2025
25/PE01/0090BA01307	PASS	YES	03/06/2025			25/PE01/0090BA01358	PASS	YES	04/06/2025
25/PE01/0090BA01308	PASS	YES	03/06/2025			25/PE01/0090BA01359	PASS	YES	04/06/2025
25/PE01/0090BA01309	PASS	YES	03/06/2025			25/PE01/0090BA01360	PASS	YES	04/06/2025
25/PE01/0090BA01310	PASS	YES	03/06/2025			25/PE01/0090BA01361	PASS	YES	04/06/2025
25/PE01/0090BA01311	PASS	YES	03/06/2025			25/PE01/0090BA01362	PASS	YES	04/06/2025
25/PE01/0090BA01312	PASS	YES	03/06/2025			25/PE01/0090BA01363	PASS	YES	04/06/2025
25/PE01/0090BA01313	PASS	YES	03/06/2025			25/PE01/0090BA01364	PASS	YES	04/06/2025
25/PE01/0090BA01314	PASS	YES	03/06/2025			25/PE01/0090BA01365	PASS	YES	04/06/2025
25/PE01/0090BA01315	PASS	YES	03/06/2025			25/PE01/0090BA01366	PASS	YES	04/06/2025
25/PE01/0090BA01316	PASS	YES	03/06/2025			25/PE01/0090BA01367	PASS	YES	04/06/2025
25/PE01/0090BA01317	PASS	YES	03/06/2025			25/PE01/0090BA01368	PASS	YES	04/06/2025
25/PE01/0090BA01318	PASS	YES	03/06/2025			25/PE01/0090BA01369	PASS	YES	04/06/2025
25/PE01/0090BA01319	PASS	YES	03/06/2025			25/PE01/0090BA01370	PASS	YES	04/06/2025
25/PE01/0090BA01320	PASS	YES	03/06/2025			25/PE01/0090BA01371	PASS	YES	04/06/2025
25/PE01/0090BA01321	PASS	YES	03/06/2025			25/PE01/0090BA01372	PASS	YES	04/06/2025
25/PE01/0090BA01322	PASS	YES	03/06/2025			25/PE01/0090BA01373	PASS	YES	04/06/2025
25/PE01/0090BA01323	PASS	YES	03/06/2025			25/PE01/0090BA01374	PASS	YES	04/06/2025

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Transducer CC Prova Idraulica Trafag (0-600 bar) S.N. 901501-004

Date Data	Independent Inspection Authority Autorità ispettiva indipendente	CEO
05/06/2025	RINA S.p.A. ITALY WITNESSED NOTED REVIEWED SURVEYOR ROSINA L. DATE 05 JUN 2025	CARBON CYLINDER Lightness & Innovation via Maestri del Lavoro, 10/B 30034 Gambarare di Mira (VE) - ITALIA Partita IVA 04619300272 info@carboncylinder.com - +39 041.5713854

Serial No.	Hydraulic Test pressure 450 bar	Internal, external, marking visual insepction	Proof test date (dd/mm/yy)	Fibre batch No.	Resin and Curing Agent batch No.	Serial No.	Hydraulic Test pressure 450 bar	Internal, external, marking visual insepction	Proof test date (dd/mm/yy)
25/PE01/0090BA01375	PASS	YES	04/06/2025	CONFIDENTIAL: DATA REGISTERED AND APPROVED BY NOTIFIED BODY VIA CARBON CYLINDER SRL BATCH TESTING CERTIFICATE - BACK DATA FORM	CONFIDENTIAL: DATA REGISTERED AND APPROVED BY NOTIFIED BODY VIA CARBON CYLINDER SRL BATCH TESTING CERTIFICATE - BACK DATA FORM				
25/PE01/0090BA01376	PASS	YES	04/06/2025						
25/PE01/0090BA01377	PASS	YES	04/06/2025						
25/PE01/0090BA01378	PASS	YES	04/06/2025						
25/PE01/0090BA01379	PASS	YES	04/06/2025						
25/PE01/0090BA01380	PASS	YES	04/06/2025						
25/PE01/0090BA01381	PASS	YES	04/06/2025						
25/PE01/0090BA01382	PASS	YES	04/06/2025						
25/PE01/0090BA01383	PASS	YES	04/06/2025						
25/PE01/0090BA01384	PASS	YES	04/06/2025						
25/PE01/0090BA01385	PASS	YES	04/06/2025						
25/PE01/0090BA01386	PASS	YES	04/06/2025						
25/PE01/0090BA01387	PASS	YES	04/06/2025						
25/PE01/0090BA01388	PASS	YES	04/06/2025						
25/PE01/0090BA01389	PASS	YES	04/06/2025						
25/PE01/0090BA01390	PASS	YES	04/06/2025						
25/PE01/0090BA01391	PASS	YES	04/06/2025						
25/PE01/0090BA01392	PASS	YES	04/06/2025						
25/PE01/0090BA01393	PASS	YES	04/06/2025						
25/PE01/0090BA01394	PASS	YES	04/06/2025						
25/PE01/0090BA01395	PASS	YES	04/06/2025						
25/PE01/0090BA01396	PASS	YES	04/06/2025						
25/PE01/0090BA01397	PASS	YES	04/06/2025						
25/PE01/0090BA01398	PASS	YES	04/06/2025						
25/PE01/0090BA01399	PASS	YES	04/06/2025						
25/PE01/0090BA01400	PASS	YES	04/06/2025						
25/PE01/0090BA01401	PASS	YES	04/06/2025						
25/PE01/0090BA01402	PASS	YES	04/06/2025						
25/PE01/0090BA01403	PASS	YES	04/06/2025						
25/PE01/0090BA01404	PASS	YES	04/06/2025						

B = Burst ; C = Cyclic

Transducer CC Prova Idraulica Trafag (0-600 bar) S.N. 901501-004

Date Data	Independent Inspection Authority Autorità ispettiva indipendente	CARBON CYLINDER Lightness & Innovation via Maestri del Lavoro, 10/B 30034 Gambarare di Mira (VE) - ITALIA Partita IVA 04619300272 info@carboncylinder.com - +39 041.5713854
05/06/2025	BUREAU VERITAS WITNESSED NOTED REVIEWED SURVEYOR ROSINA L. DATE 05 JUN 2025	