

2022 AQUARIUM

PRESSURE REDUCERS

ACCESSORIES

AND

SPARE PARTS





WE HAVE BEEN PUTTING OUR VALUES INTO EVERY PRODUCT FOR 40 YEARS...

SECTORAL SPECIALIZATION AS A DISTINCTIVE CHOICE

Since its origins, Oxyturbo has decided to deal in a specialized way with technological solutions in the field of pressure reducers and for the use of industrial gases in cylinders. A distinctive choice, which has allowed us to gain unparalleled experience on the international market. Oxyturbo is recognized as the company that offers the widest range of products, with solutions targeted to the needs of individual fields of use and users.

QUALITY TRACED AND CERTIFIED FOR THE SAFETY OF EACH CUSTOMER

Markets are often dominated by uncertainty about the real quality of the offer and exasperated competitiveness is transformed for the customer from an advantage into a risk. In this situation Oxyturbo immediately decided to favor certain and certified quality. It is no coincidence that the ISO 9001 certification was acquired 25 years ago. A certainty flanked by a brand that emphasizes the authenticity of what is "signed by Oxyturbo" and by a traceability system that assigns a specific "manufacturing memory" to each product.

A GREAT EXPERIENCE AT THE SERVICE OF TECHNOLOGICAL INNOVATION

During 40 years of company history, Oxyturbo has been the architect of significant technological innovations. It has made important steps forward in the sector in which it operates, both in terms of functional efficiency of the proposals, and in terms of safety, reliability, durability and also environmental sustainability. Particular attention is also paid to ensure that innovations are never at the expense of practicality of use.



COLLABORATIVE SKILLS TO BE A PARTNER AS WELL AS A SUPPLIER

Among the growth factors that have promoted Oxyturbo's business over the years, a decisive component has been the ability to be a proactive and available interlocutor beyond the supply of products. A competent and available partner, capable of listening to the customer's needs, interpreting them and therefore giving answers that participate in the success of development projects. A versatility that arises from being a company still led with passion by the entrepreneurial family that was its founder.

INTEGRATED LOGISTICS TO ENSURE COMPLIANCE WITH DELIVERIES

Oxyturbo is able to guarantee a wide and continuous availability of its products, in their original packaging, to give timely responses to increasingly dynamic markets in terms of orders and supply needs. The value of this organizational capacity of Oxyturbo logistics has become even more evident in contemporary markets, dominated by increasing difficulties in finding raw materials. The 4.0 structure of Oxyturbo logistics is able to keep the expected dynamics active, both in terms of quantity, types and delivery times.

THE WIDEST AND MOST UPDATED RANGE ON THE MARKET

The synergy between the Research & Development department and the various production units within the company, structures a range of offers which place Oxyturbo as the main reference in its sector at an international level. The ability to translate projects into solutions, as well as the possibility of maintaining high production flows under a quality regime, comes from a technological equipment that configures Oxyturbo as a 4.0 company. Oxyturbo has a "smart manufacturing" vocation, regarding both the robotic work islands and the digital controls of each single piece and in the various reference parameters: materials, assemblies, finishes.





DIRECT LINE WITH OXYTURBO

Consultation and dialogue are fundamental components for Oxyturbo. It's this customer-oriented focus that really differentiates Oxyturbo. The company has developed an efficient telephone and on-line support service, managed by experienced staff, able to offer valuable technical and technical-commercial responses to quickly address specific needs, or provide useful information to employ the most appropriate specialists for the problem at hand.

GENERAL CONDITIONS OF SALE



TRANSPORT

Though shipped carriage paid, goods are always at the customer's own risk. Any claims for damages due either to transport or non-compliance with the order must be made in writing and within 5 days of receipt.



DELIVERIES

The terms confirmed by our sales office are indicative and any delays shall not originate any claims for damages or cancellation of the order. At its sole discretion, the seller may postpone the delivery of part of the order without prior notice to the buyer.



WARRANTY

The warranty is 24 months from delivery on all our products except for our pressure reducers, whose warranty is for 36 months. The warranty covers any manufacturing defects other than those resulting from normal wear, misuse or incorrect use.



RETURNS AND REPAIRS

To provide better service to our customers, any returns outside the warranty period will also be taken into consideration, subject to agreement with our sales department which, having ascertained the nature of the defect, will proceed with preventively approving the ex-factory return. Upon proof of receipt, the cost for the repair will be communicated and will be returned at the customer's expense.



RETURNS DUE TO ORDERING ERRORS

In the event that the customer wishes to return goods that were ordered erroneously, they must apply to our sales office within 5 days of receipt of the goods.



EACH OF OUR PRODUCTS IS SUPPLIED WITH EAN CODE

to facilitate their retail.



PRODUCT INDEX

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The data and images contained in this catalogue are purely indicative and may be subject to change without notice by Oxyturbo SpA. Photographs and descriptions of products do not have any contractual value.

PRESSURE REDUCERS FOR AQUARIUM

Ideal for use with CO₂



All pressure reducers of the **Aquarium** range are designed in compliance with standard EN ISO 2503. They make the cylinder gas available, reducing the pressure required for CO₂ dispensing systems for both freshwater and marine aquariums. Our experience and production capacity have allowed us to add a range of high quality products for refillable and disposable cylinders.

FEATURES:

- → safety valve
- required marking
- pressure gauges as required by law
- → irremovable pressure adjustment device

The pressure reducers of this range have an inlet pressure up to 300 bar, operating pressure from 0.2 bar to 3 bar and are accurately adapted to the requirements of the sector.









SK CERTIFICATIONS

All pressure reducers of this range are manufactured in compliance with the standards in force today and have been inspected by SK Zert and by C.S.I. to ensure that the carbonating systems meet food safety requirements in compliance with DIN 6650 Part 5 and Italian Ministerial Decree 174/04.



PRODUCTION CYCLE

Our state-of-the-art production technology allows us to manufacture any prototype without using die-casting moulds, or processing equipment. Therefore, our projects can be customised without any additional cost.

INDIVIDUAL TESTING

To ensure the utmost reliability, our reducers are tested individually during the assembly stage at maximum inlet and outlet pressure. Every single item can be digitally tested upon request.

REQUIRED MARKING

Standard EN ISO 2503 provides the following

- -Name or trademark of the manufacturer and/or distributor
- -Pressure reducer class -K- or operating pressure P2-
- -Rated inlet pressure -P1-
- -Gas for which the reducer is intended.

Standard DIN 6650 Part 5 on food safety provides a marking, which includes the letters SK followed by six digits. The first three identify the manufacturer, with the other three indicating the type of reducer.

Our marking, made through a laser process, also indicates the production batch which allows for traceability and distinguishes an original product from a fake one. Upon request, we can provide a customised marking and manage the serial number of every single unit for large quantities.



IRREMOVABLE PRESSURE ADJUSTMENT DEVICE

Our pressure reducers are provided with an irremovable device to ensure the highest safety during their use at maximum operating pressures.

INTEGRATED CAPSULE

All our pressure reducers are equipped with an INTEGRATED CAPSULE device with a filter containing AISI components which ensures increased reliability and easier maintenance. The high-pressure tablet is made with special PTFE (Teflon) that ensures capsule durability.

AESTHETIC TREATMENT

All our products in the Aquarium range are nickel-plated through galvanic electrolysis which is suitable for the parts in contact with food. All reducers' components are nickel-plated to ensure the highest quality and therefore do not pollute the gas used. We no longer use low-cost barrel plating aesthetic treatment systems, which means that we can maintain processing tolerances.

3-YEAR GUARANTEE The reducers in this range are guaranteed for 3 years, except for the pressure gauges. The warranty does not cover accidental dropping.



CYLINDER CONNECTIONS

GAS	CHIMICAL Symbol	OUTLET Dimensions	STANDARD	REDUCER INLET Number					
ITALY									
Carbon dioxide	CO ₂	W21.7 x 1/14"	2 - UNI 11144	1					
GERMANY, AU	STRIA, SWITZERL <i>i</i>	AND, CZECH REPU	BLIC, SLOVAKIA, H	UNGARY, POLAND					
Carbon dioxide*	CO ₂	W21.8 x 1/14"	DIN 477 No.6	1					
* Czech Rep. and Slova	akia: CO₂ G 3/4"								
		UK							
Carbon dioxide	CO ₂	0.860" x 14 TPI	BS 341 No.8	1					
Ř		FRANCE							
Carbon dioxide	CO ₂	W21.7 x 1/14"	NF E 29-650/C	1					
		HOLLAND, BELGIU	M						
Carbon dioxide	CO ₂	W21.8 x 1/14"	NEN 3268 RU 1	1					
	SWE	DEN, NORWAY, FIN	NLAND						
Carbon dioxide	CO ₂	W21.8 x 1/14"	SS 2238/A	1					
2	SPAIN, PORTUGAL								
Carbon dioxide	CO ₂	W21.7 x 1/14"	MIE AP7	1					
*	U.S.A.								
Carbon dioxide	CO ₂	CGA 320	CGA V-1	4					
Our connections are co	ompatible with all the stand	lards in force.	্ ত	0.5					



AQUARIUM

Oxyturbo presents a range designed and developed for passionate aquarium lovers.

Our reducers and adaptors for aquariums are the result of an evolution of Oxyturbo products and production lines, whose goal is to help improve the health and well-being of fish and plants, together with the satisfaction of aquarium lovers. These CO_2 dispensing systems are for both freshwater and marine aquariums. The carbon dioxide promotes the chlorophyllin photosynthesis process enabling healthy, consistent growth of plants, together with stabilising PH levels.

Pressure reducers for aquariums are equipped with two 40mm diameter pressure gauges for simple, immediate use. Making it easy to check both the delivery pressure on the low-pressure gauge and the cylinder pressure on the high-pressure gauge. They are available in three versions:

MAJOR2 // MINOR2 // MINORMIX2 // MINIMUM



MAJOR2

Elegant series of single body pressure reducers for aquariums, can be used with refillable cylinders.

Oxyturbo, always attentive to the needs of the market, implements the series with the version complete with mounted solenoid valve to automate the CO₂ diffusion system.

FEATURES

Reducer with 2 pressure gauges complete with micro-needle valve and 6/4mm diameter quick connection with adjustable operating pressure up to a maximum of 2 bar. Equipped with rear connection and front adjusting knob.

Adaptor for use on Major2 with disposable cylinders available upon request.

USE

Made for minimum pressures and distribution, ideal for aquariums, using rechargeable CO_2 cylinders. Makes plants thriving and stabilizes optimal levels of pH and KH.





CODE	Description	Weight (kg)	No.Pcs.	Pack. Dim. (cm)	Pack.Weight (kg)
365760	MAJOR 2 with 2 gauges and micro-needle valve with quick connection	0.65	16	41 X 36 X 24	10.60
365760.EV	MAJOR2 with 2 gauges and micro-needle valve with quick connection + solenoid valve	0.90	6	46 X 31 X 17	5.60



MINOR₂

Reducer for M10x1 disposable cylinders.

FEATURES

Reducer with 2 pressure gauges complete with outlet with micro-needle valve and quick connection for 6/4mm diameter hose and with adjustable operating pressure up to a maximum of 2 bar. **Upon request it is also available the complete version of the reducer with solenoid valve and adaptors a to use the MINOR 2 also on refillable or ACME cylinders**.

USE

Made for minimum pressures and distribution, ideal for disposable cylinders aquariums using. Makes plants thriving and stabilizes optimal levels of pH and KH



CODE	Description	Weight (kg)	No.Pcs.	Pack. Dim. (cm)	Pack.Weight (kg)
375761	MINOR 2 with 2 gauges, vertical regulation knob and micro- needle valve with quick connection	0.49	16	41 X 36 X 24	8.00





MINORMIX2

Dual-sampling station pressure regulators that allow constant and precise control of the CO₂ calibration until the refillable cylinders are empty.



The range for aquariums also includes dual-sampling station pressure regulators that guarantee greater stability of the withdrawal pressure, set following the decrease in cylinder pressure. When using pressure regulators without a dual-sampling station system, the operating pressure can increase relatively quickly and abruptly as soon as the gas filling inside the cylinder falls below 20% of the nominal filling quantity. If in this case is not carried out a manual pressure recalibration, the quantity of CO_2 supplied will increase considerably and will exceed the originally set dosage. With these regulators the calibration remains constant until the end of the cylinder pressure. If a single stage regulator were used in a 10kg cylinder, for example, about 2kg of CO_2 would need constant adjustments to the operating pressure.

FEATURES

- Minormix2 has 2 pressure gauges (high and low pressure), ø40 mm
- Complete with outlet microneedle valve and a ø6 / 4mm quick connection
- Working pressure adjustable to 2 bar.

On request is also available the complete version with solenoid valve and adapters for disposable cylinders.



CODE	Description	P1 bar	P2 bar	Weight (kg)	No.Pcs.	Pack. Dim. (cm)	Pack.Weight (kg)
379769	Minormix2	60	2	0.87	16	40,5 X 35,5 X 24	14,00



MINIMUM

New generation pressure reducer for M10x1 disposable cylinders

FEATURES

A very new piston reducer without pressure gauges, complete with quick connection for 6/4mm diameter hose at the outlet and with fixed, non-adjustable operating pressure calibrated to 2 bar. This permits very precise distribution that does not change over time. All the components of the larger range reducers are concentrated in this smaller reducer. The micro-needle valve is integrated directly into the reducer body machining which allows optimal space reduction.

It is also available with HP gauge, with the assembled solenoid valve and even for the M11x1 version.

USE

Suitable for self-adjusting piston technology, or rather automatically adjusts the output CO_2 at the drop of the cylinder pressure while maintaining CO_2 dispersion stable. All of this combined with the safety valve ensures maximum reliability and makes it particularly suitable for both freshwater and marine aquariums.



CODE	Description	P1 (bar)	P1 (bar)	Q1 (It/min)	Weight (kg)	No.Pcs.	$\pmb{\text{Pack. Dim.}}~(\text{cm})$	Pack. Weight (Kg)
235001	MINIMUM M10X1	60	2	6	0.22	50	46 X 29.5 X 26	11.20
235000	MINIMUM M11X1	60	2	6	0.22	50	46 X 29.5 X 26	11.20
235101	MINIMUM M10X1 HP GAUGE	60	2	6	0.30	24	46 X 31 X1 7.5	7.20
235161.EV	MINIMUM M10X1 HP GAUGE+SOLENOID VALVE	60	2	6	0.53	30	41.5 X 36.5 X 25	15.90

SOLENOID VALVES

For a precise control of the CO₂ emission in the aquariums

FOR REDUCERS RECHARGEABLE AND DISPOSABLE **CYLINDERS**

Solenoid valves allow for automatic carbon dioxide flow distribution by means of timer or control devices installed on the aquarium for more convenient CO₂ emission. This prevents strong pressures from entering into the aquarium.

Our solenoid valves are all provided with connectors and are powered at 230V-2W.

CODE	Description	Weight (kg)	No.Pcs.
299900	Solenoid valve M G1/8 - F G1/8 230V-2W 0-16bar	0.30	1
299901	Solenoid valve M G1/8 - ø 6/4 230V-2W 0-16bar	0.30	1
299902	Infra-hose solenoid valve - ø 6/4 230V-2W 0-16bar	0.30	1









299901

DISTRIBUTORS

Our 2 or 3-outlet distributors enable multiple CO2 distribution in numerous aguariums. They are equipped with adjusting taps and 6/4mm diameter quick connections on each outlet. They are also available with a no-return valve (NRV) on each individual outlet.

ption	Weight (kg)	NU.FGS.
ET G1/8 gas distributor with micro-needle valve ø 6/4. Inlet ø 6/4	0.33	1
ET G1/8 gas distributor with micro-needle valve ø 6/4 + non return valve. Inlet ø 6/4	0.38	1
ET (+ CAP) G1/8 gas distributor with micro-needle valver ø 6/4. Inlet ø 6/4	0.28	1
ET (+ CAP) G1/8 gas distributor with micro-needle valveø 6/4 + non return valve.Inlet ø 6/4	0.35	1
	ET G1/8 gas distributor with micro-needle valve ø 6/4 + non return valve. Inlet ø 6/4 ET (+ CAP) G1/8 gas distributor with micro-needle valver ø 6/4. Inlet ø 6/4	ET G1/8 gas distributor with micro-needle valve ø 6/4 + non return valve. Inlet ø 6/4 0.38 ET (+ CAP) G1/8 gas distributor with micro-needle valver ø 6/4. Inlet ø 6/4 0.28









MICRO-NEEDLE VALVE



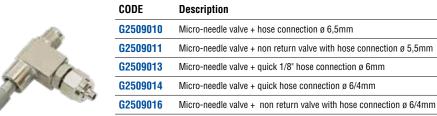
Thanks to our 20 years' experience in the industry, our micro-needle valves allow for precise distribution control, thanks to the presence of a special AISI 304 stainless steel cone.

CODE	Description	Weight (kg)	No.Pcs.
G2509903	Micro-needle valve	0.05	1
C1098402	Quick connection for ø 6/4mm hose complete with gasket	0.02	1
S2199420	Non return valve with hose connection ø 6/4mm.	0.03	1





ASSEMBLED MICRO-NEEDLE VALVE



ADAPTERS





G2509014





CODE	Description	Weight (kg)	No.Pcs.
490981	M10x1Rhe adapter with 0.Ring W21,8 Rhi for Minor2	0.097	1
490982	M10x1Rhe adapter with Nylon gasket W21,8 Rhi for Minor2	0.096	1
490881	ACME adapter for Minor2	0.065	1
490983	M10x1Rhi adapter W21,8 Rhe for Major2	0.066	1

AQUARIUM GAUGES



CO₂ HIGH PRESSURE							
CODE	Description	Pressure	Ø mm	Connection*	Range	Red mark	
Q4020100I	MAJOR2	HIGHT	40	G1/8-R	0-315	230	
Q4020100I	MINOR2	HIGHT	40	G1/8-R	0-315	230	
Q4020100I	MINORMIX2	HIGH	40	G1/8-R	0-315	230	
Q4020100I	MINIMUM	HIGH	40	G1/8-R	0-315	230	

CO ₂ LOW PRESSURE								
Q4040100I	MAJOR2	LOW	40	G1/8-R	0-4	3		
Q4040100I	MINOR2	LOW	40	G1/8-R	0-4	3		
Q4040100I	MINORMIX2	LOW	40	G1/8-R	0-4	3		

^{*}R= radial connection

DISPOSABLE CYLINDERS





CODE	Description	Weight (kg)	No.Pcs.	Pack.Dim. (cm)	Pack.Weight (kg)
485300	CO ₂ CYLINDER 390g M10x1RH 950 CC	1.60	12	32 x 26 x 34	19.40
485600	CO ₂ CYLINDER 2,2 L 1200g M10X1RH with foot stand	4.00	4	24 x 24 x 40	16.60

Weight (kg) No.Pcs.

1

0,054

0,068

0,045

0,060

0,075



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