Steel carbonator
G-411585 Datasheet

General information

Technical description

ODL carbonators are designed to integrate seamlessly into water dispensing systems, transforming ordinary tap water into sparkling water.
This product family represents the historic and well-established model of our company, with at least 1,000,000 units manufactured over 40 years of service. Despite its long-standing presence on the market, this product family continues to be a benchmark in home carbonation.
Once the upper fittings and lower cap have been removed, the carbonator can be co-cast directly into the aluminum block of the refrigeration system.
These carbonators are also designed to operate submerged in water, taking care to maintain a sufficient distance between the maximum water level and the probes.
This product family is certified by NSF International in accordance with NSF/ANSI 18.

Features

The tank body is made entirely of stainless steel, ensuring durability and resistance to corrosion and is available in different volumes and nozzle dimensions.
All models are equipped with a plug at the bottom.
The swivel fittings are molded in plastic and include connections for water and carbon dioxide, a level probe, and non-return valves.

Environment and operating conditions

Working fluid	H_2O, CO_2
Safety valve nominal pressure	8.5 or 11bar
Maximum operating pressure	7.5 or 9.5bar
Water inlet optimal temperature	1 to 5°C
Burst pressure, stainless steel body	>100bar
Burst pressure, whole carbonator	20bar
Ambient operational temperature	1 to 50°C
Ambient operational RH	Up to 80%
Storage temperature	Up to 50°C

The component is designed for continuous operation

Applications

Domestic	● ● ●
Ho.Re.Ca.	● ● ◑
Post mix system	● ● ○
Large communities	● ● ○

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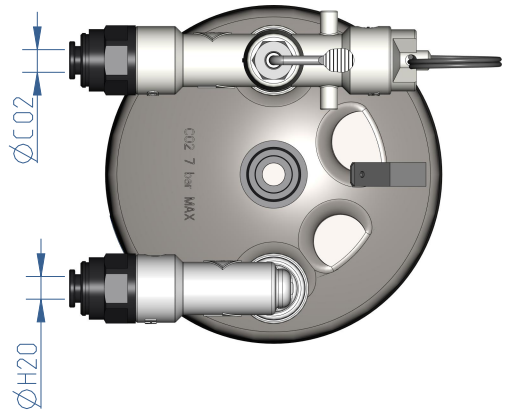
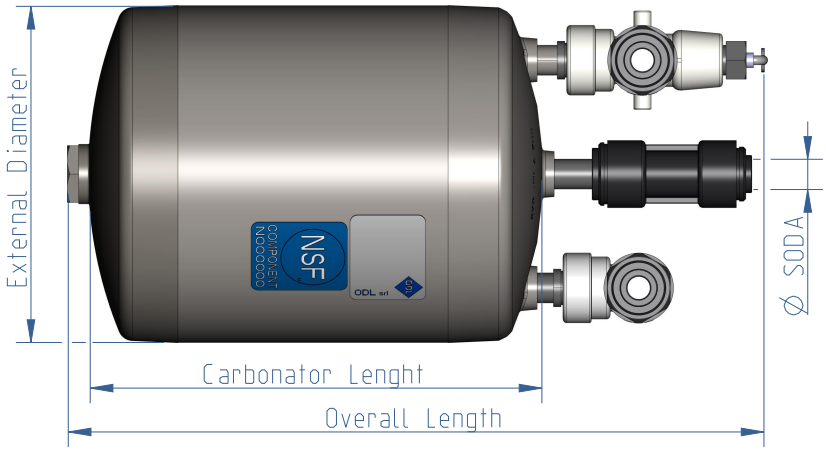
Dimensions, volumes and connections

Table below collect all the data of this product family, for any informations about tolerances contact ODL.





Working position	Vertical					
External diameter [mm]	Ø88.9 for all models					
Overall Length [mm]	+66mm of carbonator length					
Carbonator Length [mm]	120	140	160	228	298	
Inner total volume [L]	0.60	0.72	0.84	1.23	1.63	
Probe length [mm]	95	112	112	112	112	
Water volume [L]	0.44	0.46	0.57	0.96	1.37	
Filling factor [-]	0.73	0.64	0.69	0.78	0.84	
Void weight [kg]	0.67	0.74	0.74	1.02	1.22	
Water nozzle diameter [mm]	1.0, 1.25	1.0	1.0	0.8, 1.25	1.25	
ØCO2 and ØH2O [mm]	Quick fitting Ø4, Ø6, Ø8 and Ø1/4" or female plastic thread G1/4"					
ØSoda [mm]	Quick fitting Ø4, Ø6, Ø8 and Ø1/4'' or pipe Ø8					

Indication for external cleaning and sanitization

The information provided below is for guidance only. For complete details, please consult the product's Warnings and Instructions Manual.

Use only a clean, damp cloth and water for cleaning the exterior of the carbonator. Do not use any other cleaning agents or chemicals. ODL carbonator is delivered clean and has undergone industrial washing procedures, it is crucial to clean and sanitize the carbonator after installation and before its first use with food or beverages.

For internal sanitization, ODL recommends verifying the chemical compatibility of the chosen sanitizing fluid with the materials present in the carbonator. For guidance on the maximum temperatures and pressures to be used during sanitization, please contact ODL.

Food standards and certifications

This family of carbonators is compliant with these community and Italian legislation and their subsequent updates and changes and other international standards:

- Regulation (EC) No. 1935/2004,
- Regulation (EC) No. 2023/2006,
- EU Regulation 10/2011,
- D. M. 21/03/1973,
- Presidential Decree 777/82;
- Directive 2014/68/EU;
- NSF/ANSI 18.

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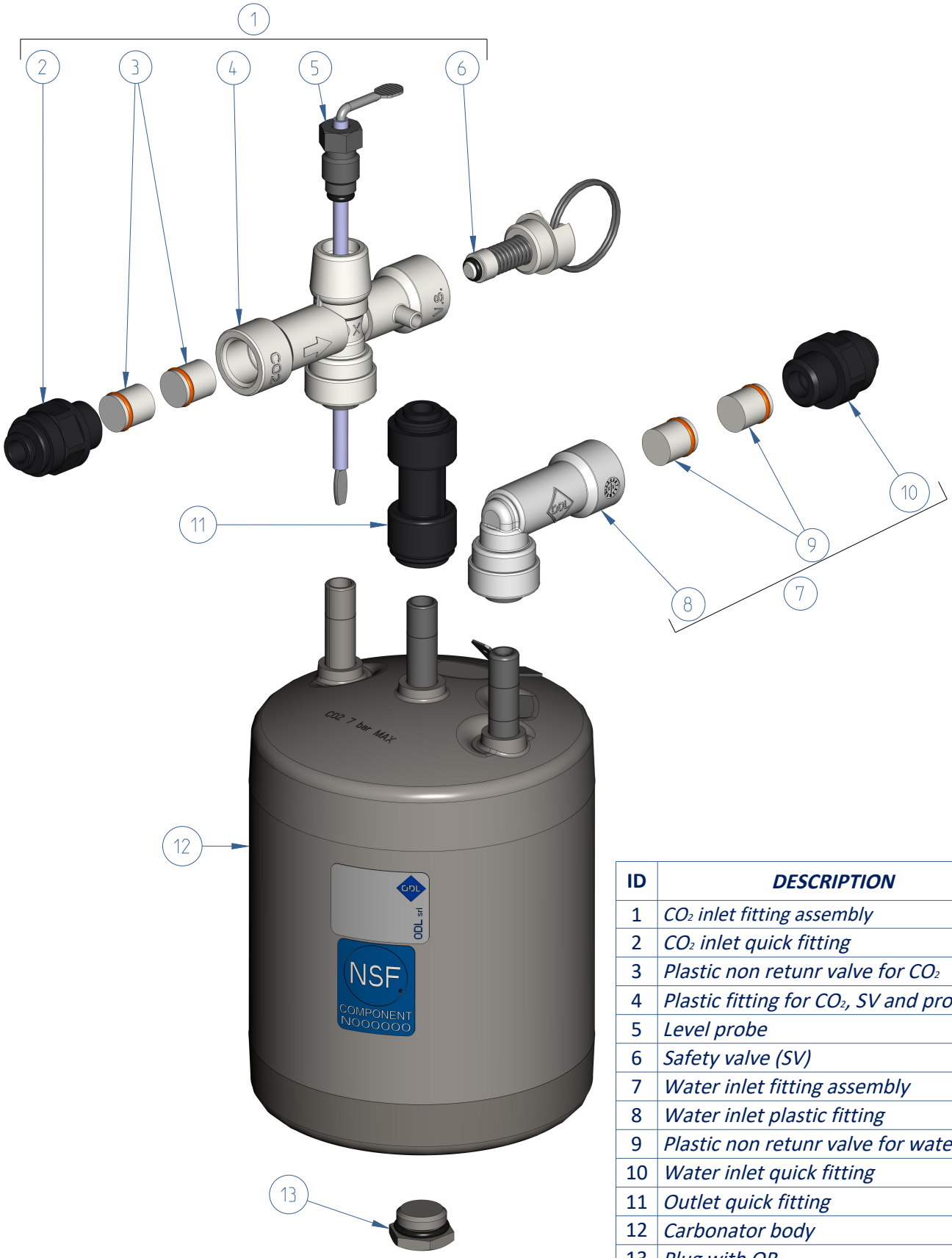
Spare parts

All spare parts available are reported in the table under column "SP", for other contact ODL.
*If the safety valve is replaced, it will be classified only as a purge valve, not a safety component.
The system must therefore incorporate an alternative safety valve.



ID	*DESCRIPTION*	*SP*	*Q.ty*
1	*CO_2 inlet fitting assembly*	X	1
2	*CO_2 inlet quick fitting*		1
3	*Plastic non retunr valve for CO_2*		2
4	*Plastic fitting for CO_2, SV and probe*		1
5	*Level probe*		1
6	*Safety valve (SV)*	X*	1
7	*Water inlet fitting assembly*	X	1
8	*Water inlet plastic fitting*		1
9	*Plastic non retunr valve for water*		2
10	*Water inlet quick fitting*		1
11	*Outlet quick fitting*	X	1
12	*Carbonator body*		1
13	*Plug with OR*	X	1