

Full stainless steel carbonator G-41 Datasheet



General information



Environment and operating conditions

Working fluid	H2O, CO2
Safety valve nominal pressure	Up to 16bar
Maximum operating pressure	Up to 15bar
Water inlet optimal temperature	1 to 5°C
Burst pressure	Up to 200bar
Proof pressure	Up to 40bar
Ambient operational temperature	1 to 30°C
Ambient operational RH	Up to 80%
Storage temperature	Up to 50°C

The component is designed for continuous operation. Pressure values shown depend on the geometric dimensions of the individual model.

Technical description

ODL carbonators are designed to integrate seamlessly into water dispensing systems, transforming ordinary tap water into sparkling water.

This family of products is characterized by having both the carbonator body and all fittings made of stainless steel.

Once the probes, safety valve, and bottom 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, ensuring 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

This is the largest and most customizable product family. Models are available with:

- dedicated volumes for storing cold still water, using coils or a double chamber;
- bottom outlet;
- option for soda recirculation;
- mounting systems or brackets;
- fittings angled 90° to the carbonator axis;
- dedicated insulation;
- bottom drain plug;
- seats for temperature sensors.

The stainless steel fittings are available in a variety of thread types and pipe diameters.

In addition to the stock geometries, both the connection type and the position of inlets and outlets can be configured.

Applications

Domestic



Ho.Re.Ca.



Post mix system



Large communities

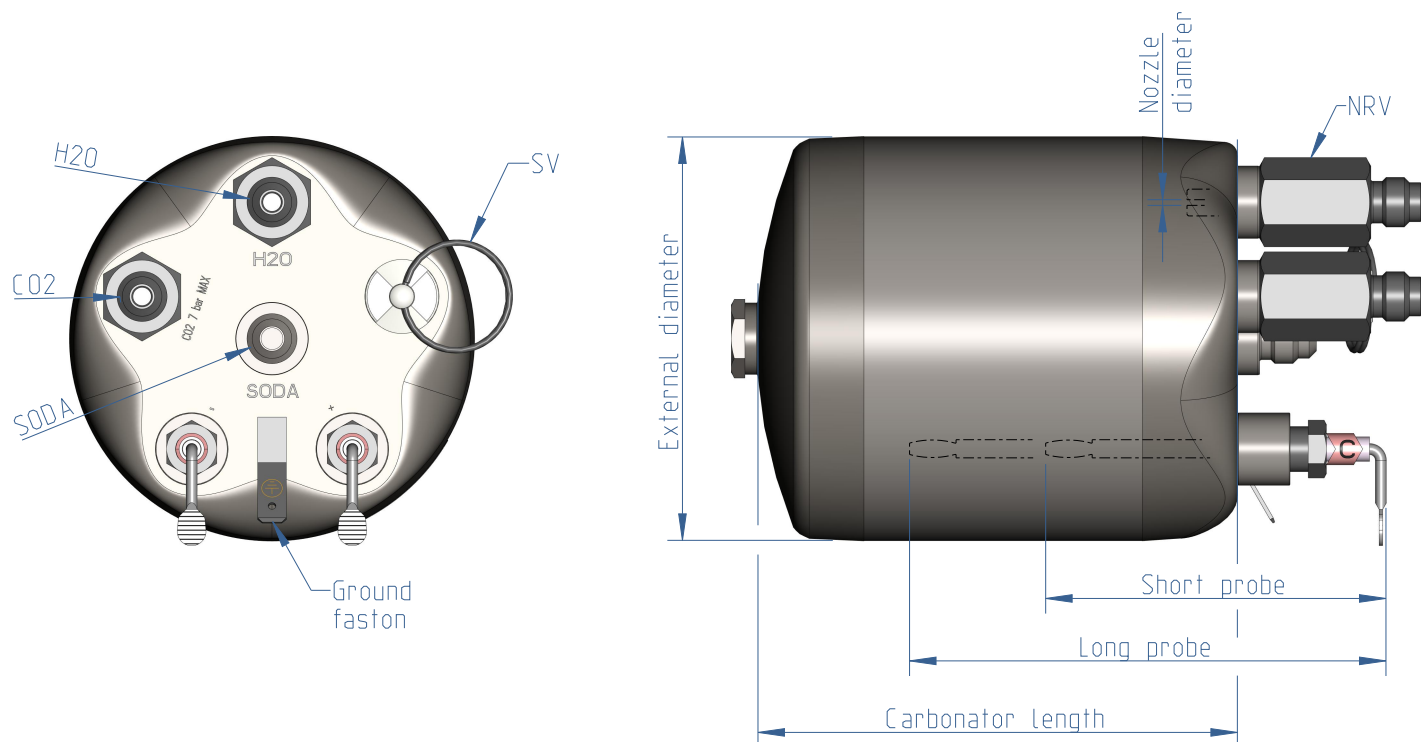


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Dimensions, volumes, components and connections

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



Working position	Vertical.
Eternal diameter	Ø63.5, Ø76.2, Ø88.9, Ø102, Ø114, Ø139.7, Ø159 and Ø168mm.
Carbonator length	From 102mm up to 315mm.
Total volume	From 0.4L up to 5L.
Positioning of connections	Inlets, SV and probes are placed on upper cover, positioned not only as in the picture.
Available threaded connections	G1/8", G1/4", G3/8", G1/2" 7/16"-20UNF, 9/16"-18UNF, 1/2"-16UN
Available pipe connections	Ø6, Ø8, Ø1/4", Ø5/16"
Number of inlets	1 or 2 for water, only 1 for CO2.
Water nozzle diameter	From Ø0.8mm to Ø3.1mm
Number of outlets	1 or 2, soda recirculation system and bottom soda outlet are available.
Number of level probe	1 or 2, ground faston is always welded on upper cover.
Probe length	Available lengths from 52mm to 365mm. If 2 level probes were mounted, lengths must be properly combined.
Safety valve (SV)	Available in Plastic or Stainless Steel (SS), this model include a channeled discharge outlet for venting (normally vented to atmosphere). ODL Standard apply 1 SV per carbonator, if is not requested, a substitute SV must be provided within the system
Non return valve (VNR)	1, 2, or no NRVs can be installed on the inlet lines (Water and CO2).

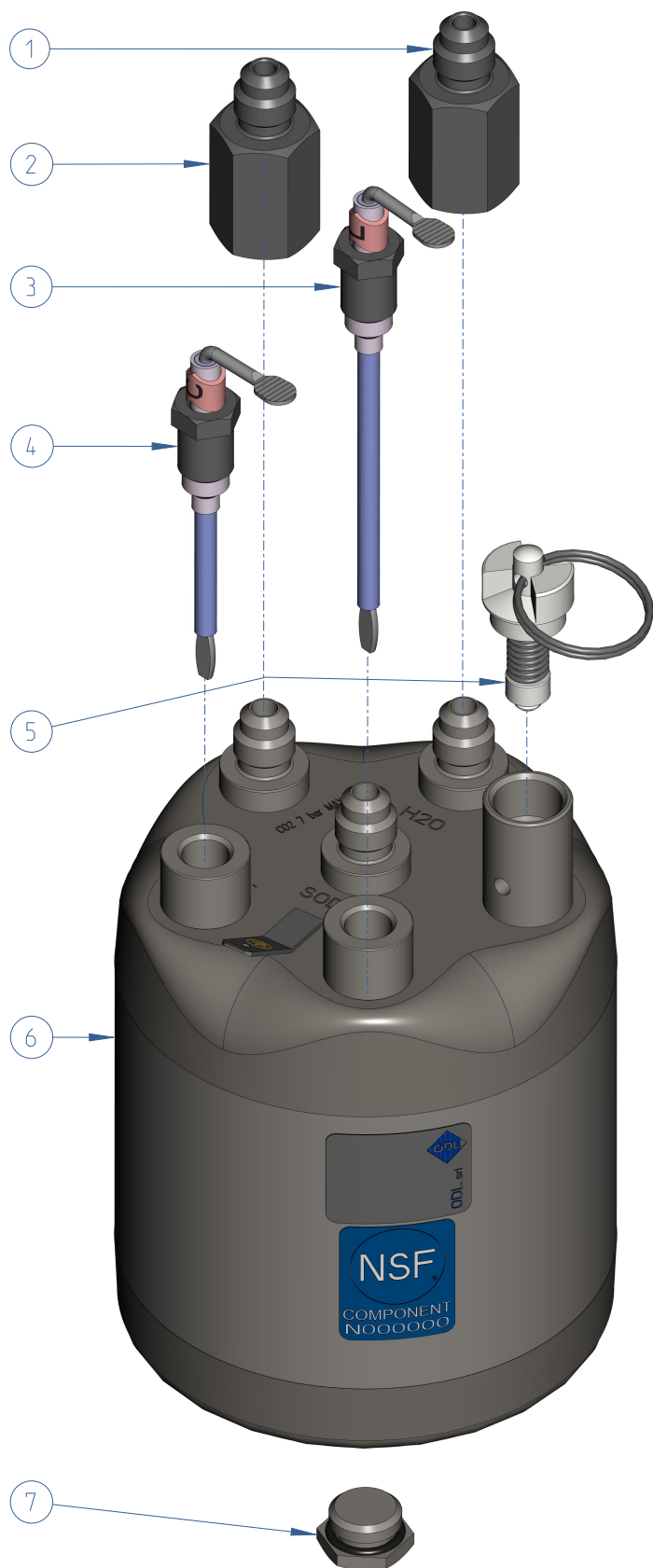
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Spare parts

All spare parts available are reported in the table under column "SP".

*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	DESCRIPTIONS	SP	Q.ty
1	Inlet non return valve for water	X	0, 1 or 2
2	Inlet non return valve for CO2	X	0, 1 or 2
3	Long probe	X	1
4	Short probe	X	1
5	Safety valve	X	1
6	Carbonator body		1
7	Plug with OR	X	1

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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.