

Carbonator with plastic head G-413L Datasheet



General information



Environment and operating conditions

Working fluid	H ₂ O, CO ₂
Safety valve nominal pressure	up to 14bar
Maximum operating pressure	up to 11bar
Water inlet optimal temperature	1 to 5°C
Burst pressure	>80bar
Proof pressure	35bar
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	

Technical description

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

Constructed with a solid stainless steel lower body, this product family utilizes an upper head molded from POM C. This head and the bottom drain plug are easily removable, enabling the steel component to be co-fused directly into the aluminum block of the refrigeration system. These carbonators are also designed to work immersed in water, taking care to keep enough distance between the maximum water level and the probes.

The main structure is height-adjustable, with a fixed Ø89 diameter. Inlet and outlet connections are positioned on the upper part.

This product family is certified by NSF International in accordance with NSF/ANSI 18.

Features

Versions incorporating cold water solutions are also available, such as models with a double chamber or a dedicated internal coil.

The water level control could be made only with two level probes plus the ground one. The size of the probe fastons is 6x0.8x1.3.

Fixing system or brackets are available on request.

Two plastic non return valves are present on water inlet lines, one on CO₂ line.

Applications

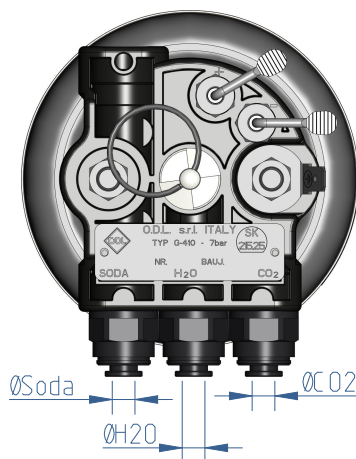
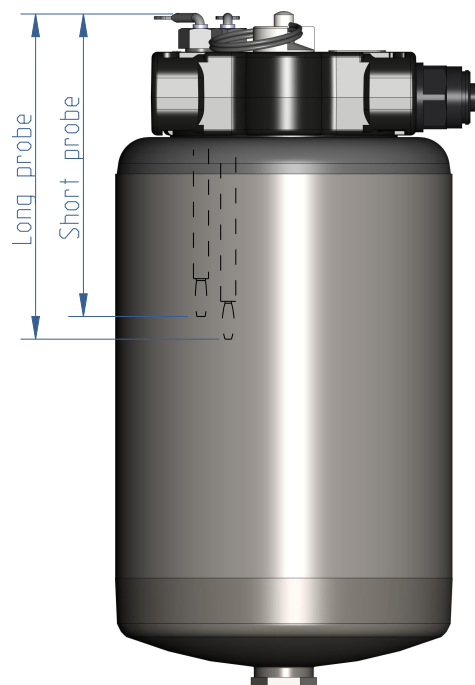
Domestic	☒	☒	☐
Ho.Re.Ca.	☒	☒	☒
Post mix system	☒	☒	☐
Large communities	☒	☐	☐

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Dimensions, volumes and connections

The following table collects the data for this product family. For information on tolerances and for details on versions with a double chamber or internal coil, please contact ODL.



Working position	Vertical							
External diameter [mm]	Ø88.9 for all models							
Overall Length [mm]	+20mm of carbonator length							
Carbonator Length [mm]	120	160	185	194	228	300	315	
Inner total volume [L]	0.58	0.81	0.96	1.01	1.21	1.62	1.71	
Void weight [kg]	0.82	0.93	1.02	1.06	1.15	1.35	1.40	
Water nozzle diameter [mm]	1.0, 1.25, 1.5							
Number of level probes [-]	2							
Short probe length [mm]	Available probe length are 52, 55, 60, 63, 65, 70, 75, 80, 85, 90, 95, 100, 105, 112, 130, 160, 190, 280.							
Long probe length [mm]								
Water volume with 70mm probe [L]	0.43	0.66	0.80	0.86	1.05	1.47	1.56	
Filling factor [-]	0.74	0.81	0.84	0.85	0.87	0.91	0.91	
ØCO ₂ , H ₂ O and Soda [mm]	Quick connections Ø4, Ø6, Ø8 and Ø1/4" or female plastic thread G1/4"							

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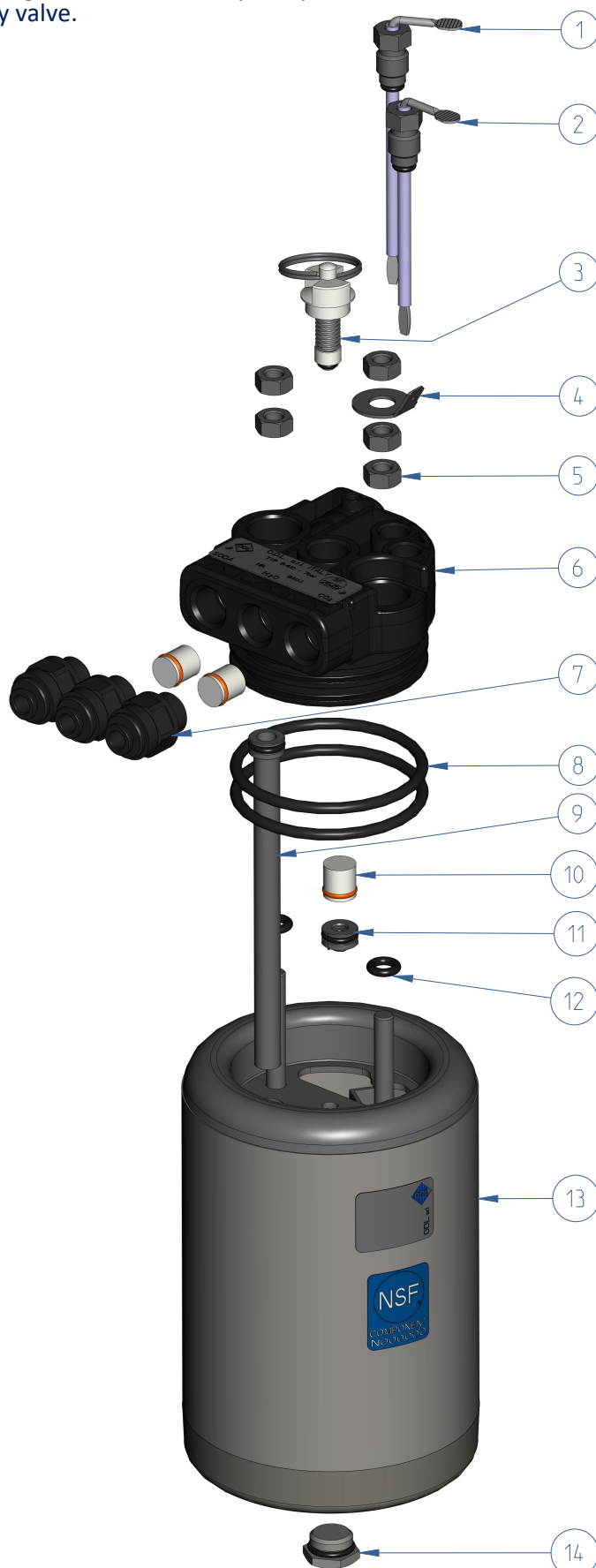


Spare parts

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	DESCRIPTION	SP	Q.ty
1	Long probe	X	1
2	Short probe	X	1
3	Safety Valve	X*	1
4	Ground faston	X	2
5	Nut	X	5
6	Plastic head		1
7	Inlet and outlet quick fitting	X	3
8	Plastic head OR	X	2
9	Soda withdrawal pipe	X	1
10	Plastic non return valve	X	3
11	Water nozzle with OR	X	1
12	Screw OR	X	2
13	Carbonator body		1
14	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.