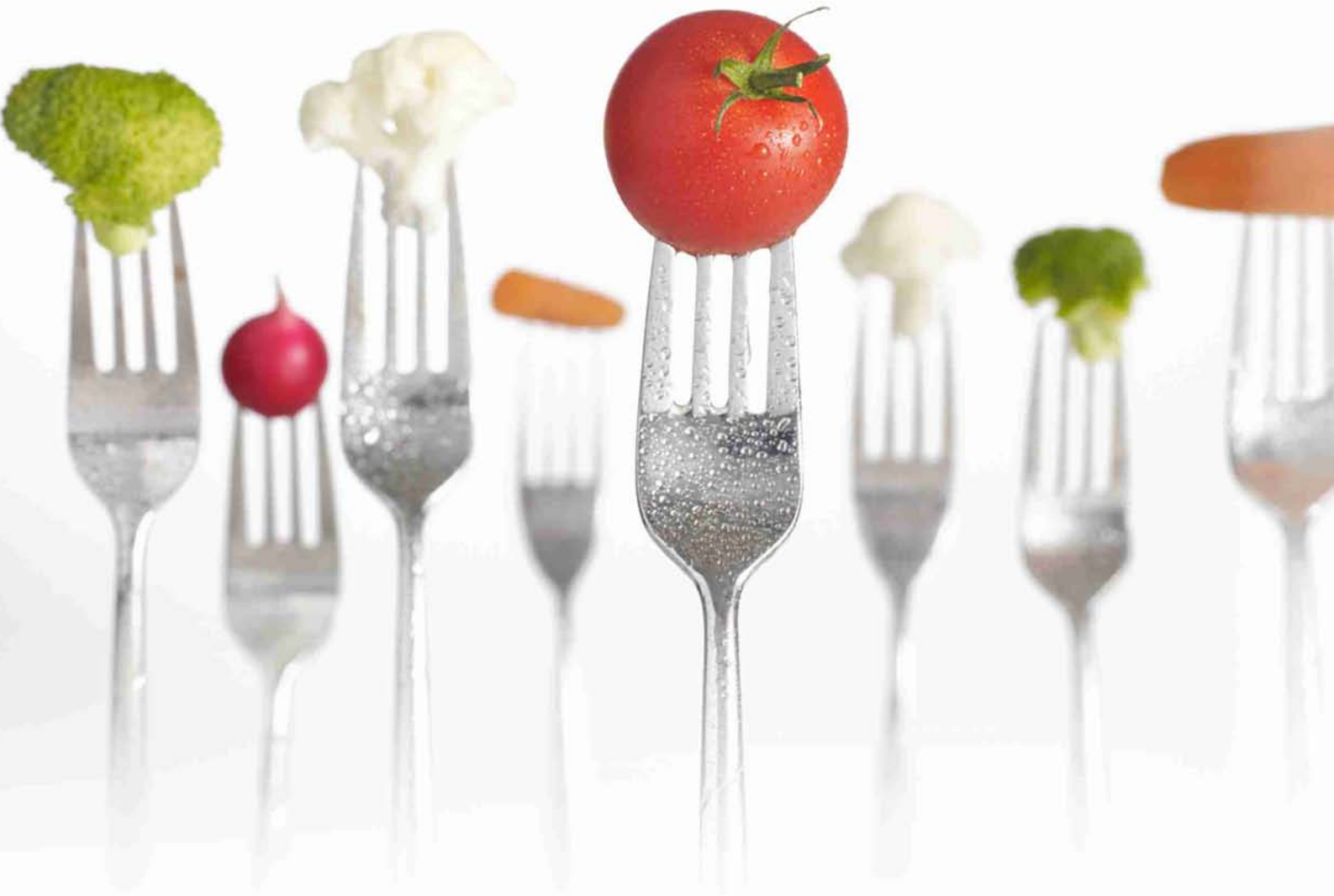


# Solutions for outdoor living

gas control systems for gas grills



GAS GRILLS 



# experts in gas grills since 1963



"Copreci has been designing components for gas cooking appliances for fifty years"



50 years ago a group of 40 people came together with a sole project: "Manufacture of gas components"

Today, Copreci is the **biggest manufacturer** in the world of gas components, and we have become a group of **1,500 people** with production **facilities in 7 countries**.

## What about safety?

Safety is a feeling, a sensation, an intangible value. It can also be understood as a basic need, something to aim for and the ultimate objective for a human being.

For us, safety means having the broadest safety components catalogue on the market, having the **greatest production capacity** in the world and the confidence of a company that has made more than **one billion gas components**. It also means being close by to provide clear and professional answers, together with credibility and our guarantee of constantly innovating, improving and creating better and safer products.



Behind each product there is a team of professionals who are **already working** on the next product.



# a smart way of grilling, innovation for the comfort of the end user

"We believe in innovation,  
and we look for a smart  
way of grilling "



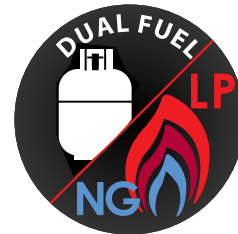
## HI-FI valve

A new valve concept, the High Fidelity Control. The HI-FI valve offers users absolute control over the barbecue gas flow, in the same way that High Fidelity sound system controls enable the volume desired to be controlled with precision and fidelity. Users can feel the power of control over the barbecue.



## Dual system

One system for both NG and LPG gases, without the need to have a different reference for each. Converting one gas to another is very straightforward with no need for Technical Support.



## Safe re-ignition system

Ensures gas grill re-ignition, avoiding gas explosions. Re-ignition can be programmed up to 4 times. The system consists of a valve, a magnetic group, a thermocouple and an electronic card. Optical (LED) or acoustic advisors



## International projection

Expansion at Copreci is heading in the direction marked out by the customer. This has led to the international projection of our operations, this is the reason why we have different production centres in countries such as Mexico, China, Turkey, Czech Republic and Italy. We take all our service potential to wherever our customers may be.



## Gas valves CAM 492 aluminium injected series



The CAM 492 gas valves series are design to be used in gas grills. There are different series depending on the final application:

- 49210 series - straight outlet
- 49217 series - 17° outlet
- 49220 series - 20° outlet
- 49240 series - 40° outlet
- 49250 series - 50° outlet
- 49270 series - 70° outlet
- 49280 series - 80° outlet
- 49290 series - 2 outlets at 90° (3 ways).

### General characteristics

- Variable flow max. for LP 35,000 BTUs and for Natural Gas 25,000 BTUs.
- Counter clockwise opening valve by means of a pushing to start rotation (safety) and a mechanical limit of the spindle.
- 0° at 70° and 90° max. opening, with or without detent and rotation limit at the end.
- Turns from 70°, 90° up to 270°, clicking possible.
- Dual valve: just one system for both NG/LP gas (NG at 210° and LP at 270°).
- Max. operating temperature: 150°C.
- Rotation diagram according to customers needs.
- Pressure: LP 11" WC and Natural Gas 7" WC (other pressures for Europe and Mexico markets).

### Application

Gas grill, built-in gas grills.

## Gas valves CAM 491 aluminium stamped series



The CAM 491 gas valves series are design to be used in gas grills. There are different series depending on the final application:

- 49110 series - straight outlet
- 49117 series - 17° outlet
- 49120 series - 20° outlet
- 49140 series - 40° outlet
- 49150 series - 50° outlet
- 49170 series - 70° outlet
- 49180 series - 80° outlet
- 49190 series - 2 outlets at 90° (3 ways).

### General characteristics

- Variable flow max. for LP 35,000 BTUs and for Natural Gas 25,000 BTUs.
- Counter clockwise opening valve by means of a pushing to start rotation (safety) and a mechanical limit of the spindle.
- 0° at 70° and 90° max. opening, with or without detent and rotation limit at the end.
- Turns from 70°, 90° up to 270°, clicking possible.
- Dual valve: just one system for both NG/LP gas (NG at 210° and LP at 270°).
- Max. operating temperature: 150°C.
- Rotation diagram according to customers needs.
- Pressure: LP 11" WC and Natural Gas 7" WC (other pressures for Europe and Mexico markets).

### Application

Gas grill, built-in gas grills.

## Gas valves CAM 490 brass series



The CAM 490 gas valves series are design to be used in gas grills. There are different series depending on the final application:

- 49010 series - straight outlet
- 49017 series - 17° outlet
- 49020 series - 20° outlet
- 49040 series - 40° outlet
- 49050 series - 50° outlet
- 49070 series - 70° outlet
- 49080 series - 80° outlet
- 49090 series - 2 outlets at 90° (3 ways).

### General characteristics

- Variable flow max. for LP 35,000 BTUs and for Natural Gas 25,000 BTUs.
- Counter clockwise opening valve by means of a pushing to start rotation (safety) and a mechanical limit of the spindle.
- 0° at 70° and 90° max. opening, with or without detent and rotation limit at the end.
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### Application

Gas grill, built-in gas grills.

## Subassemblies

### Pipes series



**Copreci offers pipes with a high degree of adaptation to customer requirements:**

- length and type of pipe
- types of fixing thread and outlet thread
- types of nozzles
- types of inlets
- turn angles
- types of fixing and brackets
- max. flow rates
- type of gas, etc...

#### General characteristics

- Flow according to customers' needs.
- Turn: from 90 up to 270°.
- Pushing:  $2.5 \pm 0.6$  mm.

## Subassemblies

### Gas rails series



**Copreci offers a great flexibility in the designs and can vary depending on the customer's requirements:**

- length of manifold
- distance between taps
- type of manifold: square, round...
- number of valves
- type of fixing thread and outlet thread
- type of nozzles
- types of inlets
- turn angles
- types of fixing and brackets
- max. flow rates
- type of gas, etc...

#### General characteristics

- Flow according to customers' needs.
- Turn: from 90 up to 270°.
- Pushing:  $2.5 \pm 0.6$  mm.

## Safe ignition system

### SIS series



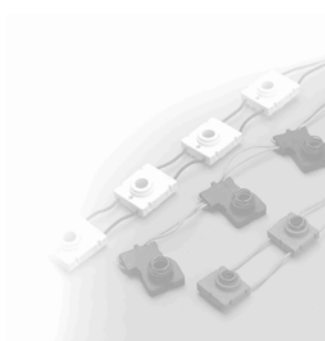
**This device is designed to improve the ignition in the gas appliance and reduce the risk of explosion.**

#### General characteristics

- The switch works by turning the gas valve where the switch is mounted. When this turn is applied to the valve, the switch sends a signal to a spark module, which sends the voltage to the spark and it lights the burner.
- With this unique design, you can be sure you have a spark in the burner every time you turn on the gas..

## Ignition system

Application  
Gas grill, built-in gas grills.



**Copreci, aware of the increasing importance of ignition systems in new designs, offers customers the biggest range of ignition accessories:**

#### General characteristics

- Switch harnesses with 2, 3, 4 or more switches.
- Individual push and rotation switches.
- Supports for 1, 2 and 3 switches for thermostats.
- Fixing clips, etc.

Copreci offers different solutions for all of its components, as well as the experience of a team that has participated in the latest developments.

#### Application

Gas grill, built in gas grill, patio heater, fire pits, outdoors fireplaces, tank top heaters.

## Thermostats with and without safety MT series



**Copreci's thermostats with and without thermoelectric safety device offer a wide range of possibilities and are capable of responding to the many requirements of gas application for outdoor living.**

### General characteristics

- These are male cone thermostats, approved by the main institutes specialising in that area.
- Ambient temperature: 150° C.
- Maximum bulb temperature: 320° C.
- Oven temperature adjustment field:
- Maximum: 300°C.
- Minimum: that allowed by the burner.
- Thermostatic adjustment type: modulating.
- Maximum flow: Limited by the thermostat or oven injector.
- Minimum flow: limited by thermostat bypass.
- Bypass adjustable for each type of gas.
- Flows between maximum and minimum: determined thermostatically.
- Maximum gas pressure: 50 Mbar.

## Modulating valve SUM series



**Modulating valve, specially designed for applications where the space is critical, because it can work in any position. Flexible design, allows different inlet-outlet configurations. Easy to adapt to the application.**

### General characteristics

- Inlet/outlet thread: manifold Ø 16 mm / M13 loxit pipe (Adaptable on demand).
- Gas tap connection for outlet pressure readings.
- Maximum working pressure: 1 PSI (65mbar)
- Emergency exposure limits: 3 PSI (207mbar)
- Gases: natural and liquified petroleum gases.
- Capacity: 3,5 kW for NG
- Electrical features: resistance, 5Ω. DC current maximum, 500mA. Max. power, 2W.
- Operating mode: response time <100ms. Shut off valve.

## Electronic systems for gas control SMART GRILLING series



**Copreci develops a wide range of electronic systems for gas grills, which offer customer safety, ease of use and efficiency. The main functions of these systems are:**



• **Instantaneity:** This function means that the flame ignites almost immediately, without the user having to hold down the control until it does so.



• **Six hour lock:** Once 6 hours have elapsed since the device was last used, the system is fully switched-off for safety reasons.



• **Timer function:** A specific cooking time can be set, and once it has elapsed the flame is extinguished and an acoustic signal indicates the programme has been completed.



• **Child safety:** This function allows the control panel to be locked in order to avoid accidental ignition. This stops children from operating it.



• **Led Indicators:** provide constant information about the status of the gas grill: burner on, burner off, lock system activated, residual heat....



• **Accurate electronic flow:** This enables the user to accurately adjust the gas flow in the gas grill and so have full control over the cooking process.



• **Automatic re-ignition:** If the flame is blown out for any reason, the system automatically re-lights the appliance thanks to an integrated self-ignition module.



• **Emergency stop:** This sensor turns off all the burners at the same time, in case of an emergency.



• **Simmering:** This system electronically cycles the flame on and off continuously for precise simmer control (ideal for melting chocolate).



**COPRECI S. COOP.**  
**Avda. de Álava 3**  
**E-20550 Aretxabaleta Guipúzcoa - SPAIN**  
**Tel: + 34 943 71 94 99**  
**Fax: + 34 943 79 23 49**  
**home@copreci.es**

**COPRECI - ALTSASUKO S.COOP.**  
 Txunkai Auzoa, Ibarrea 2 Industrialdea  
 Altsasu, 31800  
 SPAIN  
 Tel: +34-948-563-172  
 Fax: +34-948-563-496

**COPRECI DE MEXICO, SA DE CV**  
 C/ Uno, nº 736 Z.I. Guadalajara  
 44940 Jalisco - MEXICO  
 Teléfono Planta: 52 (33) 3881-1170  
 Teléfono Ventas: 52 (33) 3881-1180  
 Fax Planta: (52 (33) 3881-1193

**COPRECI DO BRASIL, LTDA.**  
 Av. Eurico Ambrogi Santos, 1900 A  
 Distrito Industrial Piracangagua CEP 12010-970  
 Taubaté SP - BRAZIL  
 Tel: + 55 12 3627-7200  
 Fax: + 55 12 3627-7201

**COPRECI CZ, S.R.O.**  
 Komenského 274 79368  
 Dvorce u Bruntálu - CZECH REPUBLIC  
 Tel: + 420 554 773 420  
 Fax: + 420 554 773 446

**COPRECI SYSTEMS, S.R.L.**  
 Centrale: Vía G. Galilei, 12 31010  
 Mareno di Piave (TV) - ITALY  
 Tel: + 39 0438492531  
 Fax: + 39 0438492559

**COPRECI TR.LTD.STI.**  
 GEPOSB Cumhuriyet Caddesi, 6 cadde.  
 Gebze-Kocaeli - TURKEY  
 Tel: + 90 262 751 13 34  
 Fax: + 90 262 751 42 56

**COPRECI CHINA**  
 South Side of Jinhai Road, Middle Section  
 Sanzao Hi-Tech Industrial Park  
 519040 Zhuhai - CHINA  
 Tel: + 86 (0) 756 7681 802/801/809  
 Fax: + 86 (0) 756 7681 845

**MONDRAGON COMPONENTES USA, CO.**  
 2621 Sandy Plains Rd. Suite 101  
 Marietta, GA, 30066  
 USA  
 Tel: + 1 (678) 560-2154  
 Fax: + 1 (678) 560-2153

[www.copreci.com](http://www.copreci.com)

