

### CNG NOZZLES

#### NGV1 NOZZLES

##### FEATURES

- **Corrosion resistant:** Completely constructed of stainless steel for corrosion resistance and durability in harsh environments.
- **Leak Tight:** Seals made of PTFE to ensure airtight sealing at high pressure.
- **Wear resistance:** As it is entirely made of stainless steel.
- **Secure coupling:** Retention through hardened segments to increase contact area and reduce wear on the male coupling.

MODEL	INPUT CONNECTION	MWP		CV	DIMENSIONS [MM]			WEIGHT [KG]
		BAR	PSI		WIDTH	ØEXT	HEX	
PC-NGV1-B200	9/16"X18UNF	200	2900	1.70	126	42	25.4	0,65
PC-NGV1-C200	7/8"X14 UNF	200	2900	4.30	175	70	36	1,90

#### PC-NGV1-B200

CNG Nozzles for refueling vehicles such as: cars and buses.  
Designed to be compatible with ANSI/CSA standard NGV1, B200 receptacles.

*Type 2: Used with three-way valves. Class A: Useful life of 100,000 cycles.*

*Size: 1 (B200)*

**CV: 1.70**

**Maximum pressure: 250bar (3625 PSI)**

**Certified by Bureau Veritas according to standard: ISO 14469:2017, in compatibility with CSA/ANSI NGV1 and UNECE R-110.**

**Approved by ENERGAS**



#### PC-NGV1-C200

CNG Nozzles for refueling vehicles such as: cars and buses.  
Designed to be compatible with ANSI/CSA standard NGV1, C200 receptacles.

*Type 2: Used with three-way valves. Class A: Useful life of 20,000 cycles.*

*Size: 2 (C200)*

**CV: 4.30**

**Maximum pressure: 250bar (3625 PSI)**

**Tested according to standard: ISO 14469:2017.**



#### NZ NOZZLES

Element for charging CNG in vehicles in Argentina, standardized according to current standard NAG418.



##### FEATURES

- AISI316 stainless steel construction
- Maximum working pressure: 200 bar
- Connection: Ø12.7 x 1/4" NPT H

# FILL VALVES

## VALVE NGV1 VEAC 50

Valve specially designed for filling CNG. Its use is intended for refueling trucks, cars, and buses. It has a threaded connection to release the valve depressurization to the atmosphere.

They are manufactured with low weight for better handling and low drive torque.

*Design: Full flow straight valve*

**CV: 2.60**

**Maximum pressure: 250bar (3625 PSI)**



### FEATURES

- **Low weight:** The valve body is made of aluminum ensuring low weight and improved handling.
- **Wear resistance:** The stainless steel interior offers enhanced resistance to wear and corrosion.
- **Secure closure:** Polyamides seals to guarantee hermetic closure at high pressure.
- **Convenient unit:** The ergonomic valve handle facilitates easy manipulation with minimal effort.

MODEL	DIMENSIONS [MM]			OUTPUT CONNECTION	INPUT CONNECTION	VENT CONNECTION	CV	DN	MWP		WEIGHT [KG]
	LENGTH	WIDTH	HEIGHT						BAR	PSI	
VEAC 50	90	80	100	3/4"X14UNF	1/2"NPT F	1/4"NPT F	2.60	10	200	2900	1.10

## VALVE VEC25-I

Robust 3-way valve designed to withstand high pressures with side loading. Its use is recommended in CNG dispensers, as a filling valve.

### FEATURES

- AISI316 stainless steel construction.
- Hardened trunion ball design.
- Encapsulated and spring-loaded seats.
- Low torque for comfortable operation.
- Blow-out proof stem .



CONNECTION	PASSAGE	CV	MWP		WEIGHT [KG]
			BAR	PSI	
1/4 NPTF	4.75	0.56	414	6000	0.5

## EXHAUST MUFFLER

An essential accessory for reducing loud ventilation sounds from the charging valve. Its design allows significant acoustic attenuation to a minimum level and avoids discomfort at the end of CNG refueling.



Compatible products:  
**VEC25-I**  
**VEAC 50**

### FEATURE

- AISI316 stainless steel construction.
- Maximum working pressure: 200 bar (2900 PSI).
- Connection: 1/4"NPT M.
- Internal shock absorber in stainless steel.

# BREAKAWAY VALVES

Quick release or Breakaway valves are specially designed for CNG dispensers. In the event of an accident, it allows the hose to be detached, isolating the dispenser, cutting off the gas supply and it seeks to prevent damage to the equipment and the user. It remains locked until reinstalled.

## FEATURES

- **Low weight:** Engineered to simplify handling and assembly.
- **Automatic closing:** The valve will remain blocked even in the absence of flow. Closing has no explosive effect.
- **Reconnectable design:** Allows for the reuse of components that were not damaged during disconnection.
- **Secure retention:** System designed with toroidal spring retention.

MODEL	DIMENSIONS [MM]		CONNECTIONS	COUPLING STRENGTH	DECOUPLING FORCE	CV	MWP		WEIGHT [KG]	TOROIDAL SPRING
	WIDTH	ØEXT					BAR	PSI		
BRK2-25	100	32	1/4 NPTF	200	220 A 670	1.50	200	2900	0,400	AISI 316
BRK2-50	120	32	1/2 NPTF	200	220 A 670	1.80	200	2900	0,450	AISI 316

## BRK 2-25

Complies with NAG 418/415 standard.  
 AISI 303 stainless steel body  
 Valve internals made AISI 316.  
*It features a plastic cover to protect the part that is ejected during uncoupling.*

**CV: 1.50**  
**Maximum pressure: 250bar (3625 PSI)**

## BRK 2-50

Complies with NAG 418/415 standard.  
 AISI 303 stainless steel body  
 Valve internals made AISI 316.  
*It features a plastic cover to protect the part that is ejected during uncoupling.*

**CV: 1.80**  
**Maximum pressure: 250bar (3625 PSI)**

## BRK 4-50

Complies with NAG 418/415 standard.  
 AISI 303 stainless steel body  
 Valve internals made AISI 316.  
*It features a plastic cover to protect the part that is ejected during uncoupling.*

**CV: 3.50**  
**Maximum pressure: 250bar (3625 PSI)**



# CNG HOSES



Refueling hose for mobile and stationary units designed for refilling vehicle natural gas (CNG) tanks and CNG transfer lines. With conductive inner tube to dissipate static electricity build-up. Extra resistant coverage for water abrasion and microbiological resistance. Lightweight, non-metallic design for easy handling. Sturdy construction to resist twisting, crushing and pulling.

## FEATURES

- **Inside:** Coextruded conductive polyamide and PA12 polyamide (thermoplastic with great hardness and chemical resistance).
- **Reinforcement:** One or two aramid fiber braids plus a synthetic fiber braid.
- **Outside protection:** Red protective polyurethane.
- **Greater resistance for the 1/4 section:** three braids of textile fiber. Providing more resistance.

## TECHNICAL SPECIFICATIONS

PART NO.	Ø HOSES		ID (MM)	OD (MM)	MWP		SAFETY FACTOR	DUBBING RADIUS (MM)	USE	COLOR
	INCH	DN			(BAR)	(PSI)				
A1331	1/4	DN6	6.5	15.7	250	3630	4:1	50	GNC	ROJO
15R2	1/4	DN6	6.5	13.7	250	3630	4:1	50	GNC	ROJO
15R5	1/2	DN12	13.0	22.5	250	3630	4:1	90	GNC	ROJO

## STANDARD WHIPS

ABAC CODE	DESCRIPTION	NOMINAL SIZE	LENGTH
20300X20C020	HOSE LENGTH 200mm	1/4"	200mm
20300X20C025	HOSE LENGTH 250mm	1/4"	250mm
20300X20C320	HOSE LENGTH 3200mm	1/4"	3200mm

# CNG ADAPTERS

Versatile components, made of stainless steel AISI 316. They allow compatibility with products mentioned in this catalog.



Repair service and spare parts kits available. Consult the ABAC commercial department or one of its representatives to obtain them.

*ABAC S.R.L. is not responsible for the operation of a valve repaired by the customer.*



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