## **CNG Valve**

High pressure and high flow valves for compressed natural gas



## **General Description:**

In an effort to be environmentally conscious, comply with government emission laws and decrease dependence on foreign oil, clean burning alterative fuels such as CNG (compressed natural gas) have become a viable solution. Parker Fluid Control Division is committed to providing system solutions for these and many other alternative fuel applications.

Parker Fluid Control Division is now pleased to offer the high pressure, high flow, low leakage CNG natural gas valve. This product is designed for integration into compressed natural gas fuel delivery systems (i.e. trucks, buses, & etc...) utilizing single and multi-tank applications.

#### Installation:

Valves can be mounted in any position. The preferred orientation is with the coil vertical and upright.

#### **Standard Materials of Construction:**

Body - Stainless steel (430F)

Seals - HNBR (7121Z033xxx)\*

- Nylon (7121Z015xxx)

Plunger/Stop - Stainless steel (430F)

Spring - Stainless steel (17-7 PH)

Sleeve - Stainless steel (305)

\*HNBR is a proprietary seal material



# Electrical Characteristics:

#### **Standard Voltages**

DC - 12, 24

#### **Coil Classification:**

Class H standard

## **Maximum Ambient Temperature:**

170° F

#### **Current Drain:**

- 1.6 amps (12VDC)
- 0.83 amps (24VDC)

## Product Advantages:

- Valves range in flow for single and multi-tank systems
- Wide pressure range of 0-4500 PSI for working and maximum operating tank pressure
- Max Allowable Internal Seat Leakage
  - 7121Z033xxx Bubble-tight from 0-4500 psi
  - 7121Z015xxx <100 cc/min from 300-4500 psi

**Note:** Consult Factory for other CNG valves used in installations after the CNG is regulated to a much lower pressure.

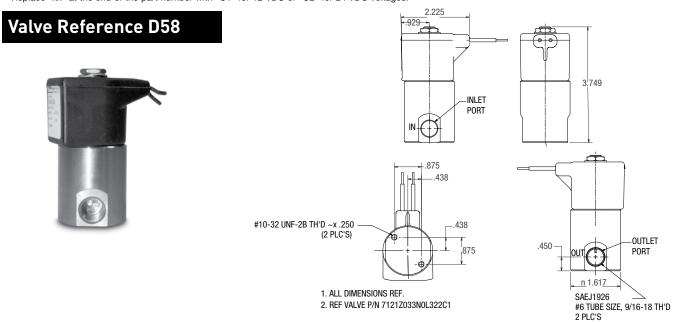


#### 2-Way Normally Closed - Stainless Steel

	Orifice Size				Operating Pressure Differential PSI		Min. Media	Max.				Reference	
Port Size	Pilot	Body	Pilot	Body	Min.	Compressed Natural Gas		Media Temp. °F	Watt	Seal	Valve Assembly Part Number**	Coil	Valve
SAE-6	.031	.109	.021	0.2	0	4500	-10	180	22	HBNR*	7121Z033NOL322xx	8	D58

<sup>\*</sup>Proprietary Seal Material

<sup>\*\*</sup> Replace "xx" at the end of the part number with "C1" for 12 VDC or "C2" for 24 VDC voltages.



### 2-Way Normally Closed - Stainless Steel

Port		Flow	Operating Pressure Differential PSI		Min. Media	Max. Media				Reference	
Size NPT	Orifice Size	Factor Cv	Min.	Compressed Natural Gas	Temp. °F	Temp. °F	Watt	Seal	Valve Assembly Part Number**	Coil	Valve
1/4	0.031	0.021	0	4500	-10	170	22	Nylon	7121Z015NOL322xx	8	D59

Ø1.57

.80

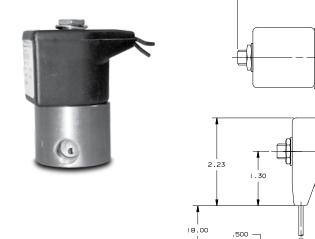
.88

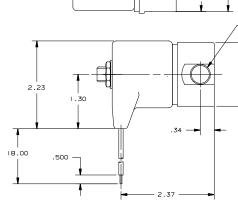
1/4 NPT 2 PLC'S

Ø1.62

765

## Valve Reference D59







Parker Hannifin Corporation Fluid Control Division 1 800 825 8305 (1 800 Valve05) www.parker.com/fcd

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<sup>\*\*</sup> Replace "xx" at the end of the part number with "C1" for 12 VDC or "C2" for 24 VDC voltages.