

# 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 alternative 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



Specialty

## 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.



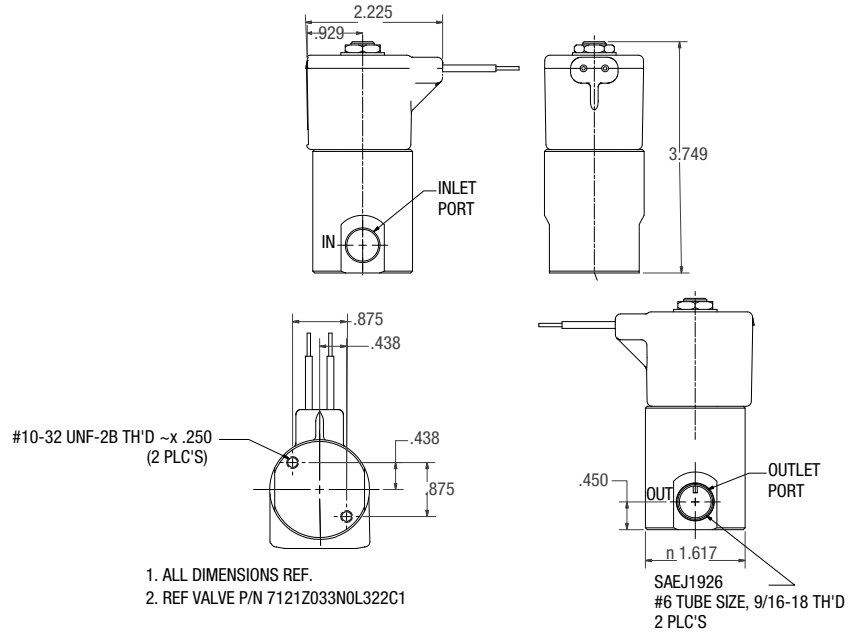
## 2-Way Normally Closed - Stainless Steel

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

\*Proprietary Seal Material

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

### Valve Reference D58

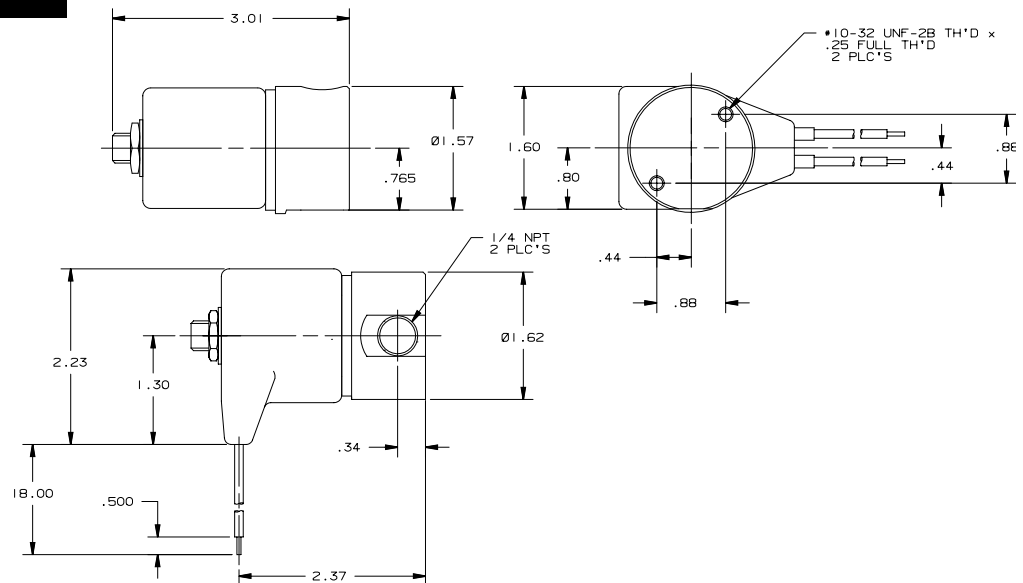


## 2-Way Normally Closed - Stainless Steel

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

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

### Valve Reference D59



D74



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