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.



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D73

2-Way Normally Closed - Stainless Steel

	Orifice Size		Flow Factor Cv		Operating Pressure Differential PSI		Min. Media	Max.				Refe	rence
Port Size	Pilot	Body	Pilot	Body	Min.	Compressed Natural Gas	Temp. °F	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

*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. REF VALVE P/N 7121Z033N0L322C1

2.225

.929



Specialty

2-Way Normally Closed - Stainless Steel

Port		Flow	Opera Diff	ting Pressure erential PSI	Min. Media	Max. Media				Reference	
Size	Orifice	Factor		Compressed	Temp.	Temp.			Valve Assembly		
NPT	Size	Cv	Min.	Natural Gas	°F	°F	Watt	Seal	Part Number**	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







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