ePCC
Electronic Pre-Chamber Control Valve

Applications
The ePCC (electronic pre-chamber control) valve is a solenoid operated gas admission valve, it serves as an actuator for the admission of gas into a pre-chamber. One ePCC is required for each cylinder.

The valve designed by Hoerbiger replaces conventional prechamber fuel control systems which rely on simple check valves. The ePCC allows improved fuel control as well as reduced down time due to its long life as compared to the conventional check valve.

Specifications

Equivalent Flow Area .................................. 0,8mm²
Steady State Flow-Rate ............................. 0.84g/s CNG @
 ...................................................... P1=4.8barg, P2=ATM
Internal Leakage ........................................... <0.2% of steady state flow-rate
Nominal Differential Pressure ......................... 4,8barg (70psig)
Maximum Differential Pressure ....................... 17,2barg (250psig)
Maximum Backfire Pressure Spike ............. 138barg (2000psig)
(without backflowing through valve)
Maximum Housing Pressure ....................... 276barg (4000psig)
(non operating)
Opening Time of Valve ............................. 1ms*
Response Time ........................................... 0,5ms*
Voltage Supply ........................................... 12–24V
Peak Current ............................................. 9amps
Hold Current ............................................ 2amps
* (assumes the use of a HOERBIGER SDM (Solenoid Driver Module))
(Boost Voltage 90-110V, Peak time 1-1,5ms)
Max. particle size within fuel gas .............. <5µm
(integrated protection filter, 20µm)
Max. particle concentration: ...................... 1ppm
Ambient Temperature: .............................. -20–150°C (-4–302°F)
Fuel Gas Temperature: .............................. -20–85°C (-4–185°F)

Certificates:
Ex nA IIB:
CSA Class I, Div. 2, Groups C & D
rated 30Vdc, 3W max.
Temperature Codes T4, Tamb = 85°C; T3, Tamb = 150°C
Dimensions