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Technical Data Sheet

IG4 Dakota LP OEM



Component classification as
67R-01 and 110R-00
 Certified
ISO 15500-7:2015

Characteristic	Unit	Value	Note
Injector version	n° of cylinders	1 - single injector	To be installed in a common rail manifold or in gas-air mixer
Material body and treatment		Aluminium	
Relative pressure	Bar (Psi)	From 0,5 to 3 (7 to 43)	Working pressure
		9 (130)	Max pressure
Rated voltage (at coil)	Volt	10,8 - 14,4	
Minimum copper wire section for coil connection	mm ²	0,75	
Coil type	by encoding	E2 - Grey cap	
Resistance	Ω	2	± 5% at T= 25°
Suggested peak current time (duration)	ms	2,4	
Suggested peak current value	A		
Suggested holding current (±10%)	A	1,2	
Cold Starting Requirements			
Complete OPENING response time	ms	2	± 5% tested with max nozzle diameter at 14V Dp=2bar T= 25°C
Complete CLOSING response time	ms	1,6	
Minimum injection pulse	ms	2,1	14V Δp=2bar T= 25°C
Stroke	Micron		
Seat Diameter	mm	3,3	
Static flow rate (with max nozzle Φ) at 20°C (with air)	SLPM (sL/min)	110	at 1 bar inlet pressure
		164	at 2 bar inlet pressure
Calculated max flow rate (with max nozzle Φ) CNG at 20°C (G20 CNG fluid)	gr/sec	1,6	at 1 bar inlet pressure
		2,4	at 2 bar inlet pressure
	Kg/h	5,8	at 1 bar inlet pressure
		8,7	at 2 bar inlet pressure
Calculated max flow rate (with max nozzle Φ) LPG at 20°C	gr/sec	2,7	at 1 bar inlet pressure
		4,1	at 2 bar inlet pressure
	Kg/h	9,9	at 1 bar inlet pressure
		14,8	at 2 bar inlet pressure
Leakage (tested with air)	cc/h	≤ 15	
Noise level	dB		
Compatibility with gas		LPG, CNG	
Driver Stage		Peak and Hold (PWM)	
Coil Connector type		2 way Amp/Delphi super seal female connector with tab contacts	About connecting wire, refer to our drawing, code 114.01.AMP.001
Inlet gas fitting for rubber hose	mm		
Outlet gas fitting			
Calibrated hole ∅ range (for nozzles)	∅		
Approvals		110R-00 / 67R-01 / ISO 15500-7:2015	
Operating ambient temperature range	°C	-40°C / +120°C	
Principle of operation		Solenoid valve - Normally closed - Mobile plunger	
Power handling capability LPG	HP/Cyl	1 bar up to 40 HP/cyl	
Power handling capability CNG	HP/Cyl	2 bar up to 35 HP/cyl	
Coil IP Rating		IP67	