



## Technical Data Sheet IG7 Dakota LP 1 Ohm

last update 2020/09/9



Characteristic	Unit	Value	Note
Injector Version	N° of cylinders	2,3,4	
Material body and treatment		Aluminium	
Relative Pressure	Bar (Psi)	From 0,5 to 3 (7 to 43)	Working pressure
		4,5 (65)	Max pressure
Rated voltage (at coil)	Volt	10,8 - 14,4	
Minimum copper wire section for coil connection	mm <sup>2</sup>	0,75	
Coil type	by encoding	E1 - Yellow cup	
Resistance	Ω	1	± 5% at T= 25°
Suggested peak current time (duration)	ms	2	
Suggested peak current value	A		
Suggested holding current (±10%)	A	1,2	
Cold Starting Requirements		Increase up to 20% the "peak current time" for first cycles when gas temperature is < 10°C	
Complete OPENING Response Time	ms	1,4	( ±10% - total injection time 5 ms) ±5% tested without nozzle at 14V Δp=1bar T= 25°C
Complete CLOSING Response Time	ms	1,4	
Minimum injection pulse	ms	1,5	Tested with 2 mm nozzle diameter at 14V Δp=1bar T= 25°C
Stroke	Micron	400	1 A supply current
Seat Diameter	mm	3,3	
Static flow rate (with max nozzle Φ) for 1 single injector at 20°C (with air)	SLPM (sL/min)	108	at 1 bar inlet pressure
Calculated max flow rate (with max nozzle Φ) for 1 single injector CNG at 20°C (G20 CNG fluid)	gr/sec	1,6	at 1 bar inlet pressure
	Kg/h	5,8	at 1 bar inlet pressure
Calculated max flow rate (with max nozzle Φ) for 1 single injector LPG at 20°C	gr/sec	2,6	at 1 bar inlet pressure
	Kg/h	9,4	at 1 bar inlet pressure
Leakage (tested with air)	cc/h	≤ 15	
Noise level	dB	T.B.D.	±1 dB Rail Test Condition
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	Ø10 mm / Ø12 mm / Ø14 mm / Ø16 mm	
Outlet gas fitting		Calibrated nozzles M8x1 for rubber hose Ø 4 mm - Ø 5 mm - Ø 6 mm	
Calibrated hole $\varnothing$ range (for nozzles)	Ø	From 1,00 to 3,25 mm (0,25 mm step)	
Approvals		110R-00 67R-01 (-40°C / +120°C)	
Principle of operation		Solenoid valve - Normally closed - Mobile Plunger	
Power handling capability LPG	HP/cyl	1 bar up to 38 HP /cyl	
Power handling capability CNG	HP/cyl	2 bar up to 33 HP/cyl	
Coil IP Rating		IP67	

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