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# Technical Data Sheet

## IG4 Dakota LHF AM



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	
Material body and treatment		Brass sandblasted	
Relative pressure	Bar (Psi)	From 0,5 to 3,0 (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	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	1,4	
Cold Starting Requirements			
Complete OPENING response time	ms	2,1	(±10% - total injection time 5 ms) ± 5% tested without nozzle at 14V Dp=2bar T= 25°C
Complete CLOSING response time	ms	1,4	
Minimum injection pulse	ms	2,1	tested with 2 mm nozzle diameter at 14V Δp=2bar T= 25°C
Stroke	Micron		
Seat Diameter	mm	3,8	
Static flow rate (with max nozzle Φ) at 20°C (with air)	SLPM (sL/min)	140	at 1 bar inlet pressure
		210	at 2 bar inlet pressure
Calculated max flow rate (with max nozzle Φ) CNG at 20°C (G20 CNG fluid)	gr/sec	2,1	at 1 bar inlet pressure
		3,7	at 2 bar inlet pressure
	Kg/sec	7,4	at 1 bar inlet pressure
		11,1	at 2 bar inlet pressure
Calculated max flow rate (with max nozzle Φ) LPG at 20°C	gr/sec	3,5	at 1 bar inlet pressure
		5,3	at 2 bar inlet pressure
	Kg/sec	12,6	at 1 bar inlet pressure
		18,9	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 Ø range (for nozzles)	Ø		
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 60 HP/cyl	
Power handling capability CNG	HP/Cyl	2 bar up to 50 HP/cyl	
Coil IP Rating		IP67	