



# Technical Data Sheet IG4 Dakota HP

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## O.E.M. VERSION



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 8(7 to 116)	Working pressure
		9 (130)	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	A	1,2	
Complete OPENING Response Time	ms	1,9	±5% tested with max nozzle diameter at 14V Δp=7 bar T= 25°C
Complete CLOSING Response Time	ms	1,2	
Minimum injection pulse	ms	2,5	
Stroke	Micron		
Seat Diameter	mm	2	
Static flow rate (with max nozzle Φ) at 20°C (with air)	SLPM (sL/min)	205	at 7 bar inlet pressure
Calculated max flow rate (with max nozzle Φ) CNG at 20°C (G20 CNG fluid)	gr/sec	3	at 7 bar inlet pressure
	Kg/h	11	at 7 bar inlet pressure
Leakage (tested with air)	cc/h	≤ 15	
Noise level	dB		±1 dB Rail Test Condition
Compatibility with gas		CNG	
Driver Stage		Peak and Hold (PWM)	

Coil Connector type		2 way Amp/Delphi super seal female connector with tab contacts	Connector dimensions are shown in the RAIL drawing, code 114.01.AMP.001
Approvals		110R-00 (-40°C / +120°C)	
Operating Ambient Temperature Range	°C	-40° + 120° C	
Principle of operation		Solenoid valve - Normally closed - Mobile Plunger	
Power handling capability CNG	HP/cyl	7 bar up to 58 HP/cyl	
Coil IP Rating		IP67	

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