



Technical Data Sheet IG4 Dakota HP 8L 24V O.E.M. VERSION

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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	19.5 - 28.5	
Minimum copper wire section for coil connection	mm ²	0,75	
Coil type	by encoding	E4 - Black cap	
Resistance	Ω	4,7	± 5% at T= 25°
Suggested peak current time (duration)	ms	3,2	
Suggested peak current value	A	5	
Suggested holding current	A	1,2	
Complete OPENING Response Time	ms	2,7	±5% tested with max nozzle diameter at 24V Δp=8 bar T= 25°C
Complete CLOSING Response Time	ms	1,4	
Minimum injection pulse	ms	3,4	24V Δp=8bar 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)	196	at 2 bar inlet pressure
		588	at 8 bar inlet pressure
Calculated max flow rate (with max nozzle Φ) CNG at 20°C (G20 CNG fluid)	gr/sec	2,88	at 2 bar inlet pressure
		8,64	at 8 bar inlet pressure
	Kg/h	10,37	at 2 bar inlet pressure
		31,12	at 8 bar inlet pressure
Leakage (tested with air)	cc/h	≤ 15	
Noise level	dB		±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	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	8 bar up to 165 HP/cyl	
Coil IP Rating		IP67	

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