



IG7 DAKOTA

Characteristic	Unit	Value	Remarks
Injector Version	N° of cylinders	2, 3, 4	
Material body and treatment		Aluminium	
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 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	1,4	
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	1,7	(±10% - total injection time 5 ms) ± 5% tested without nozzle at 14V Dp=1bar T= 25° C
Complete CLOSING Response Time	ms	1,4	
Minimum injection pulse	ms	1,8	tested with 2 mm nozzle diameter at 14V Dp=1bar T= 25° C
Stroke	Micron	470	
Seat Diameter	mm	3,3	
Static flow rate (with max nozzle Φ) for 1 single injector at 20° C (with air)	SLPM (sL/min)	115	at 1 bar inlet pressure
		170	at 2 bar inlet pressure
			at 3 bar inlet pressure
Calculated max flow rate (with max nozzle Φ) for 1 single injector CNG at 20° C (G20 CNG fluid)	gr/sec	1,7	at 1 bar inlet pressure
		2,54	at 2 bar inlet pressure
	Kg/h	6,2	at 1 bar inlet pressure
		9,4	at 2 bar inlet pressure
Calculated max flow rate (with max nozzle Φ) for 1 single injector LPG at 20° C	gr/sec	2,8	at 1 bar inlet pressure
		4,1	at 2 bar inlet pressure
	Kg/h	10,3	at 1 bar inlet pressure
		14,8	at 2 bar inlet pressure

Leakage (tested with air)	cc/h	≤ 15	
Noise level	dB	T.B.D	±1 dB Rail Test Condition
Compatibility with gas	CNG	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	10 mm / 12 mm / 14 mm / 16 mm	
Outlet gas fitting		Calibrated nozzles M8x1 for rubber hose 4 mm - 5 mm - 6 mm	
Calibrated hole range (for nozzles)		From 1,00 to 3,25mm (0,25 mm step)	
Approvals		110R-00 67R-01 (-40°C / +120°C)	T.B.D
Operating Ambient Temp Range	°C		
Principle of operation		Solenoid valve - Normally closed - Mobile Plunger	
Power handling capability LPG	HP/cyl	1 bar up to 40HP/cyl	
Power handling capability CNG	HP/cyl	2 bar up to 35HP/cyl	