



Technical Data Sheet IG6 Potomac 12V 5 Bar 1 Ohm

last update 2022/03/11



Characteristic	Unit	Value	Note
Injector Version	N° of cylinders	1 - single injector	To be put in a common rail manifold or in gas-air mixer
Material body and treatment		Steel galvanized	
Relative Pressure	Bar (Psi)	5 (72)	Working pressure
		7,5 (108)	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	E1 - Green cap	
Resistance	Ω	1	± 5% at T= 25°
Suggested peak current time (duration)	ms	3,5	
Suggested peak current value	A	8	at 14 V 12 Hz
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	1.8	± 5% tested with max nozzle at 14V Dp=5 bar T= 25°C
Complete CLOSING Response Time	ms	1,3	
Minimum injection pulse	ms	2,5	
Stroke	Micron	430	1 A supply current
Seat Diameter	mm	3	
Static flow rate (with max nozzle Φ) for 1 single injector at 20°C (with air)	SLPM (sL/min)	280	at 5 bar inlet pressure
Calculated max flow rate (with max nozzle Φ) for 1 single injector CNG at 20°C (G20 CNG fluid)	gr/sec	4,22	at 5 bar inlet pressure
	Kg/h	15,2	at 5 bar inlet pressure
Calculated max flow rate (with max nozzle Φ) for 1 single injector LPG at 20°C	gr/sec		
	Kg/h		

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	About connecting wire, refer to our drawing, code 114.01.AMP.001
Inlet gas fitting for rubber hose	mm		
Outlet gas fitting		not available	
Calibrated hole \varnothing range (for nozzles)	\varnothing		
Approvals		110R-00 (-40°C / +120°C)	
Principle of operation		Solenoid valve - Normally closed - Mobile Plunger	
Power handling capability LPG	HP/cyl		
Power handling capability CNG	HP/cyl	5 bar up to 80 HP/cyl	
Coil IP Rating		IP67	

RAIL S.r.l - Via A.Grandi 16, 42030 Vezzano Sul Crostolo - Reggio Emilia - Italia