



Scan to visit our website

Technical Data Sheet

IG7 Dakota HP



Component classification as
110R-00
 Certified
 ISO 15500-7:2015

Characteristic	Unit	Value	Note
Injector version	n° of cylinders	2, 3, 4	
Material body and treatment		Aluminium black anodized	
Relative pressure	Bar (Psi)	From 0,5 to 7 (7 to 100)	Working pressure
		9 (130)	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	3	
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	1,9	±5% tested with max nozzle diameter at 14V Δp=7 bar T= 25°C
Complete CLOSING response time	ms	1,3	
Minimum injection pulse	ms	2,5	
Stroke	Micron	300	1A supply current
Seat Diameter	mm	2	
Static flow rate (with max nozzle Φ) for 1 single injector at 20°C (with air)	SLPM (sL/min)	205	at 7 bar inlet pressure
Calculated max flow rate(with max nozzle Φ) for 1 single injector CNG at 20°C (G20 CNG fluid)	gr/sec	3	at 7 bar inlet pressure
	Kg/sec	11	at 7 bar inlet pressure
Calculated max flow rate(with max nozzle Φ) for 1 single injector LPG at 20°C	gr/sec		
	Kg/sec		
Leakage (tested with air)	cc/h	≤ 15	
Noise level	dB		
Compatibility with gas		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	Ø10 mm / Ø12 mm / Ø14 mm / Ø16 mm	
Outlet gas fitting		Calibrated nozzles M8x1 for rubber hose Ø4 mm - Ø5 mm - Ø6 mm	
Calibrated hole Ø range (for nozzles)	Ø	From 1,00 to 2,00 mm (0,25 mm step)	
Approvals		110R-00 / 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		
Power handling capability CNG	HP/Cyl	7 bar up to 58 HP/cyl	
Coil IP Rating		IP67	

Address Via A. Grandi, 16 - 42030 Vezzano Sul Crostolo (RE) Reggio Emilia - Italy
Web railgroup.it **Email** info@railgroup.it **Tel** +39 0522 603801

Last update: 19/05/2021