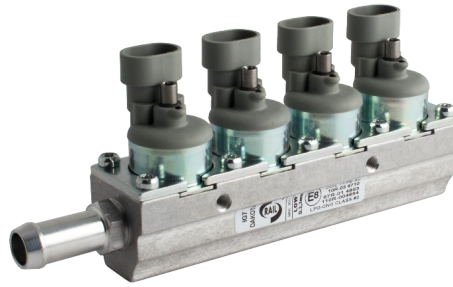




# Technical Data Sheet

## IG7 Dakota LP



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Component classification as  
**67R-01** and **110R-00**  
 Certified  
**ISO 15500-7:2015**

Characteristic	Unit	Value	Note
Injector version	n° of cylinders	2, 3, 4	
Material body and treatment		Aluminium	
Relative pressure	Bar (Psi)	From 0,5 to 3,0 (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 <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 (±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 Δp=1 bar T= 25°C
Complete CLOSING response time	ms	1,5	
Minimum injection pulse	ms	1,8	tested with 2 mm nozzle diameter at 14V Δp=1 bar T= 25°C
Stroke	Micron	470	1A supply current
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
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/sec	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/sec	10,3	at 1 bar inlet pressure
		14,8	at 2 bar inlet pressure
Leakage (tested with air)	cc/h	≤ 15	
Noise level	dB		
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	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 ∅ range (for nozzles)	∅	From 1,00 to 3,25 mm (0,25 mm step)	
Approvals		110R-00 / 67R-01 / 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	1 bar up to 40 HP/cyl	
Power handling capability CNG	HP/Cyl	2 bar up to 35 HP/cyl	
Coil IP Rating		IP67	