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Technical Data Sheet

IG1 Apache HD



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 black anodized	
Relative pressure	Bar (Psi)	From 0,5 to 2,0 (7 to 29)	Working pressure
		3,0 (43)	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	A2	
Resistance	Ω	2	± 5% at T= 25°
Suggested peak current time (duration)	ms	3,5	
Suggested peak current value	A	4,7	
Suggested holding current (±10%)	A	1	
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	2,5	(±10% - total injection time 5 ms) ± 5% tested without nozzle at 14V Dp=1bar T= 25°C
Complete CLOSING response time	ms	1,9	
Minimum injection pulse	ms	2,5	tested with 2 mm nozzle diameter at 14V Δp=1bar T= 25°C
Stroke	Micron	450	1,7 A supply current
Seat Diameter	mm	4	
Static flow rate (with max nozzle Φ) for 1 single injector at 20°C (with air)	SLPM (sL/min)	130	at 1 bar inlet pressure
Calculated max flow rate(with max nozzle Φ) for 1 single injector CNG at 20°C (G20 CNG fluid)	gr/sec	1,94	at 1 bar inlet pressure
	Kg/sec	7	at 1 bar inlet pressure
Calculated max flow rate(with max nozzle Φ) for 1 single injector LPG at 20°C	gr/sec	3,45	at 1 bar inlet pressure
	Kg/sec	12,43	at 1 bar inlet pressure
Leakage (tested with air)	cc/h	≤ 15	
Noise level	dB	62	±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	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 s range (for nozzles)	Ø	From 1,00 to 2,75 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 45 HP/cyl	
Power handling capability CNG	HP/Cyl	2 bar up to 40 HP/cyl	
Coil IP Rating		IP67	