



DRAFT

Technical Data Sheet IG4 Dakota HP 24V

O.E.M. VERSION

last update 2021/08/31



| Characteristic | Unit | Value | Note |
|--|-----------------|-------------------------|---|
| Injector Version | N° of cylinders | 1 - single injector | To be installed in a common rail manifold or in gas-air mixer |
| Material body and treatment | | Aluminium | |
| Relative Pressure | Bar (Psi) | From 0.5 to 8(7 to 116) | Working pressure |
| | | 9 (130) | Max pressure |
| Rated voltage (at coil) | Volt | 19.5 - 28.5 | |
| Minimum copper wire section for coil connection | mm ² | 0,75 | |
| Coil type | by encoding | E4 - Black cap | |
| Resistance | Ω | 4,7 | ± 5% at T= 25° |
| Suggested peak current time (duration) | ms | 2,4 | |
| Suggested peak current value | A | 5 | |
| Suggested holding current | A | 1,2 | |
| Complete OPENING Response Time | ms | 1,9 | ±5% tested with max nozzle diameter at 24V Δp=7 bar T= 25°C |
| Complete CLOSING Response Time | ms | 1,2 | |
| Minimum injection pulse | ms | 2,5 | |
| Stroke | Micron | | |
| Seat Diameter | mm | 2 | |
| Static flow rate (with max nozzle Φ) at 20°C (with air) | SLPM (sL/min) | 205 | at 7 bar inlet pressure |
| Calculated max flow rate (with max nozzle Φ) CNG at 20°C (G20 CNG fluid) | gr/sec | 3 | at 7 bar inlet pressure |
| | Kg/h | 11 | at 7 bar inlet pressure |
| Leakage (tested with air) | cc/h | ≤ 15 | |
| Noise level | dB | | ±1 dB Rail Test Condition |
| Compatibility with gas | | CNG | |
| Driver Stage | | Peak and Hold (PWM) | |

| | | | |
|-------------------------------------|--------|--|---|
| Coil Connector type | | 2 way Amp/Delphi super seal female connector with tab contacts | Connector dimensions are shown in the RAIL drawing, code 114.01.AMP.001 |
| Approvals | | T.B.D. | |
| Operating Ambient Temperature Range | °C | -40° + 120° C | |
| Principle of operation | | Solenoid valve - Normally closed - Mobile Plunger | |
| Power handling capability CNG | HP/cyl | 7 bar up to 58 HP/cyl | |
| Coil IP Rating | | IP67 | |
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RAIL S.r.l - Via A.Grandi 16, 42030 Vezzano Sul Crostolo - Reggio Emilia - Italia