

Cherasco 14/10/2024

TECHNICAL BULLETIN 09_2024

Subject: NEW INJECTOR IN03 V3 LD

Dear Representative/Customer,

We hereby inform you of the introduction of the new injector “IN03 V3 LD”.

❖ **Description**

Part Number:

INJ. IN03 V3 LD NORMAL



09SQ99020521

INJ. IN03 V3 LD MAX



09SQ99020522

INJ. IN03 V3 LD SUPER MAX



09SQ99020523

Component identification

In the previous version, the product was identified by means of a label containing the following information;

- ❖ Color “**Blue**” “**Orange**”, “**Yellow**” the size of the injector.
- ❖ Production data (Batch, year and week)
- ❖ Product code

In the new version, identification occurs through a silkscreen on the body of the injector itself and by the number of grooves present on the outlet:



Datasheet

IN03 MY09

ITEM	DETAIL	Ref.
Fuel feeding	Bottom feed	
Outside	Muddy water, dust, oil mist	
	CNG Methane, Compressor oil, Nitrogen, Particles <10 µm	
Inside	LPG Butane, Propane, Pentane, Particles <10 µm	
	CNG -40°C to 120°C	R110
Approval operating temperature	LPG -20°C to 120°C	R67-01
Function assured temperature	CNG -15°C to 120°C	WFS
Storage temperature	LPG -15°C to 120°C	WFS
Vibration	30g from 40 to 400Hz	
Working pressure	300 kPa	WFS
Standard Operating pressure	CNG 200 kPa above manifold pressure	WFS
	LPG 150 kPa above manifold pressure	WFS
Classification pressure	450 kPa (Class 2)	R67-01 R110
Electrical	Working voltage range	6V to 16V
	Driver type	Peak & hold
	Coil resistance	1,66±0,1 Ω at 20°C
	Injector inductance	1,77 ± 0,1 mH
	Socket	AMP 284556-1
Leak	Internal air tightness	< 0,20 cm³/min
	External air tightness	< 0,20 cm³/min
Mass	≈ 70g	
Static flow:	2,85 g/s (Supermax type)	
	Test fluid: Air (20°C)	2,3 g/s (Max Type)
	@ p_in = 2,5 bar abs; p_out = p_atm	1,77 g/s (Normal Type)
Type approvals / Certifications	67R – 010223 110R – 000041 ISO15500	WFS

IN03 V3 LD

ITEM	DETAIL	Ref.
Fuel feeding	Bottom feed	
Outside	Muddy water, dust, oil mist	
	CNG, LNG vapour, particles <10 µm	
Inside	LPG, particles <10 µm	
	CNG -40°C to 120°C	R110
Approval operating temperature	LPG -20°C to 120°C	R67
Operating temperature	-30°C to 120°C	WFS
Storage temperature	-40°C to 120°C	
Vibration	50g from 40 to 400Hz	
Maximum working pressure	ΔP=400 kPa	WFS
Standard Operating pressure	CNG ΔP=200 kPa	WFS
	LPG ΔP=150 kPa	WFS
Pneumatic strength	> 4400 kPa gauge	WFS
Homologation working pressure	450 kPa (Class 2)	R110
Electrical	Operating voltage	DC 12V & 24V systems
	Driver type	Peak & hold (6A/2A)
	Coil resistance	1,45± 0,1 Ω at 20°C
	Injector inductance @1000Hz	1,55 ± 0,1 mH
	Socket	AMP 284556-1 AMP 282763-1
Leak	Internal air tightness	< 0,20 cm³/min
	External air tightness	< 0,20 cm³/min
Mass	≈ 74g	
Static flow:	2,85 g/s (Supermax type)	
	Test fluid: Air (20°C)	2,3 g/s (Max Type)
	@ p_in = 2,5 kPa abs; p_out = p_atm	1,77 g/s (Normal Type)
Flow Scatter @ 3 ms	≈ 4 %	WFS
Reverse Opening [bars]	1 = (TBC)	WFS
Flow deviation after used	±15%, ton > 4 ms	WFS
Approvals / Certifications	R110 - R67 - ISO15500 (TBC)	

Equipment Type to Calibration Tool “Equipment Type”

