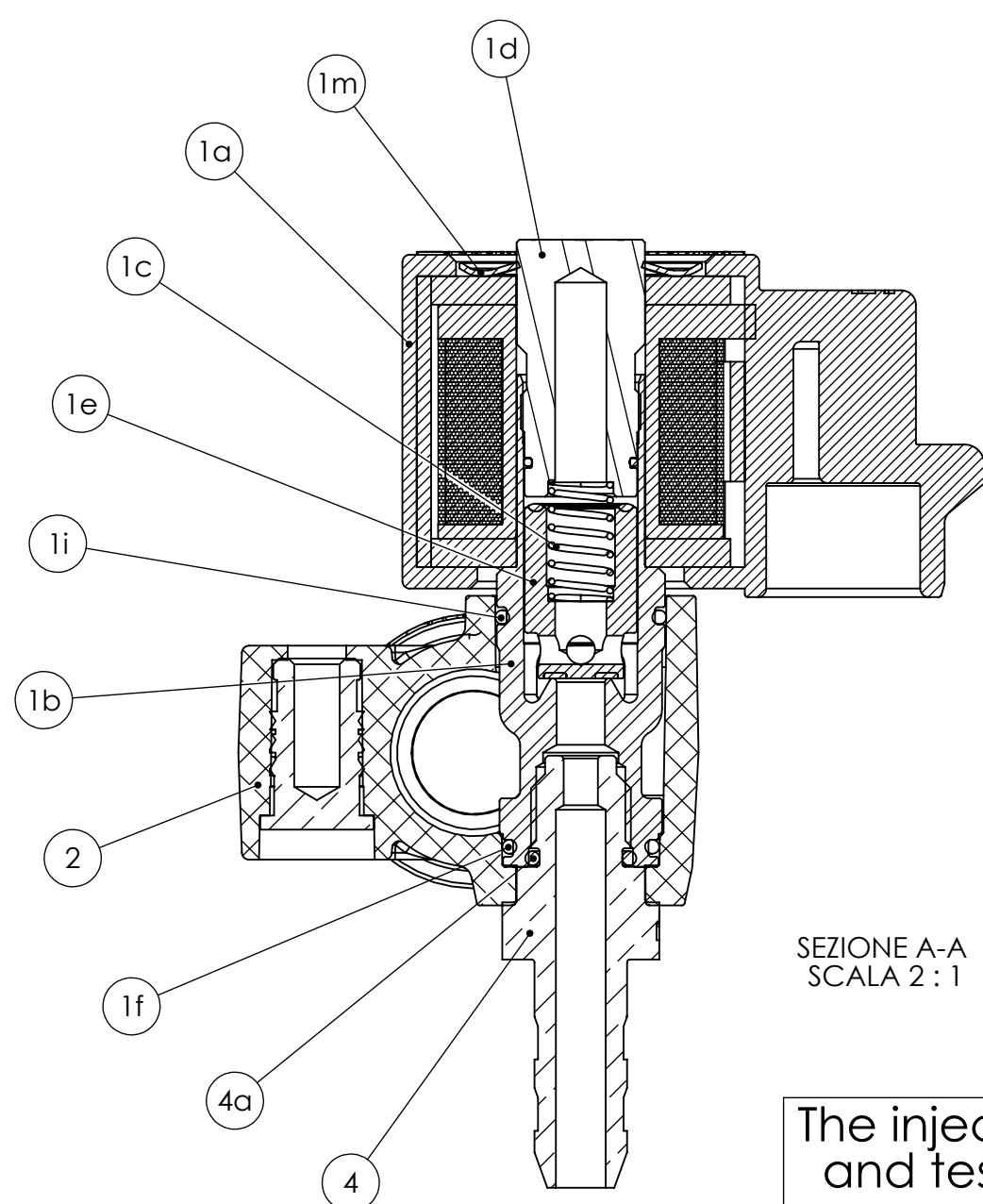
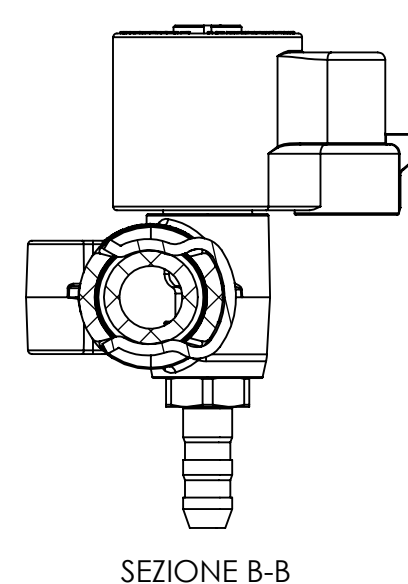
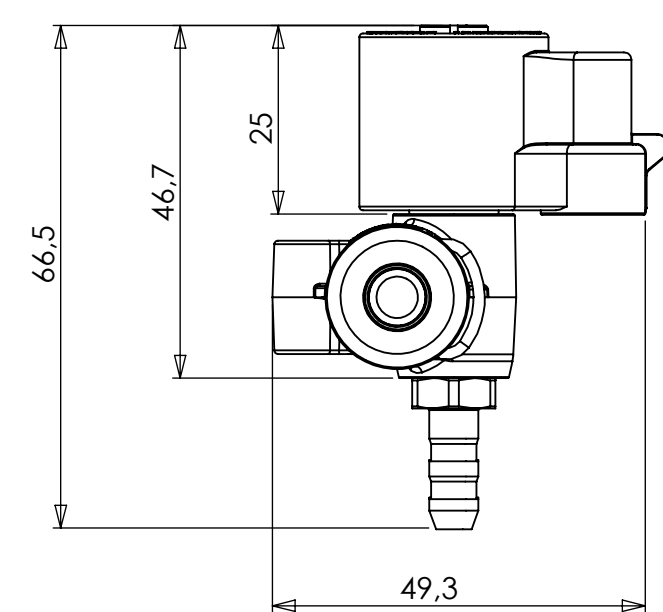
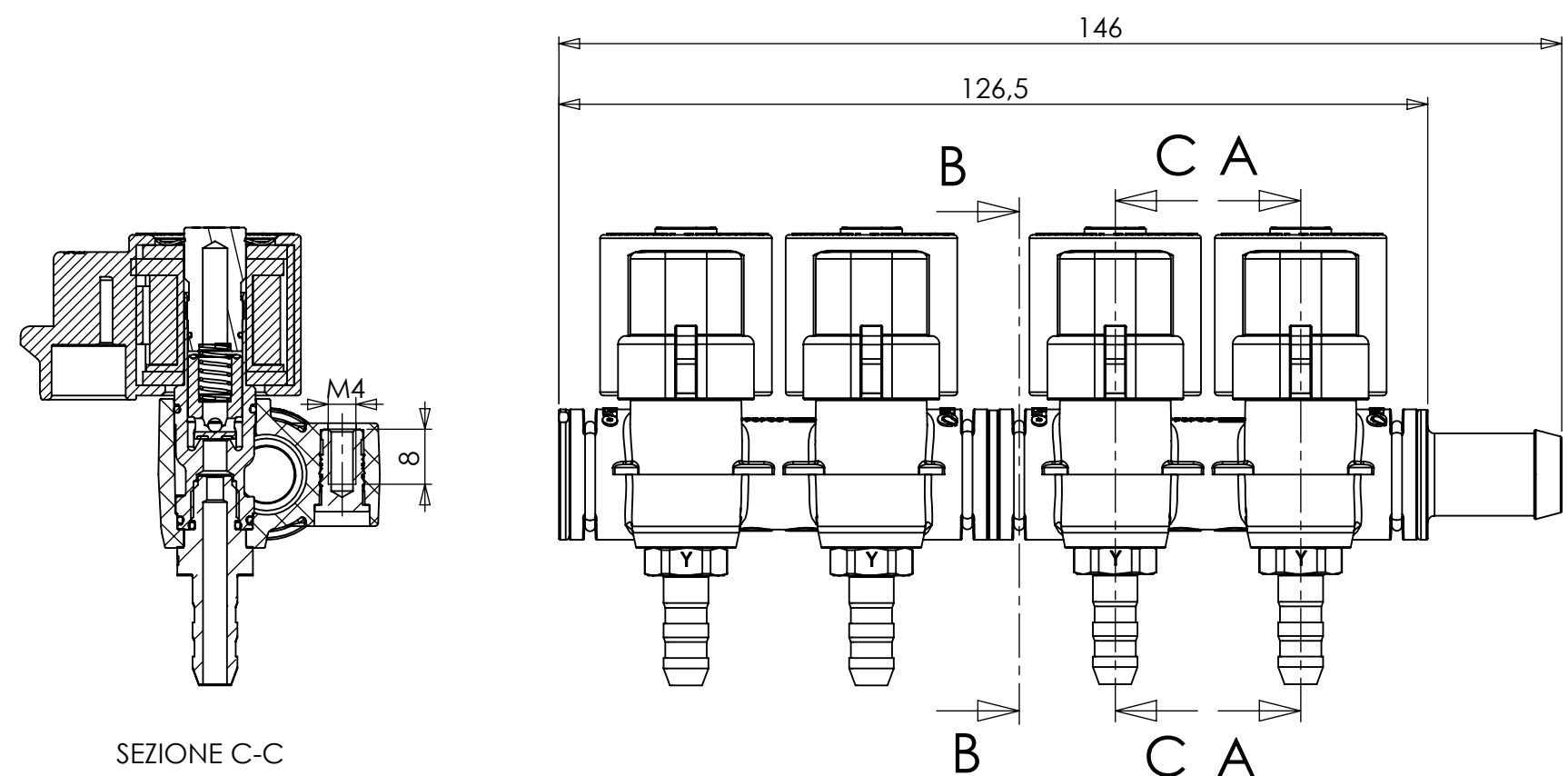
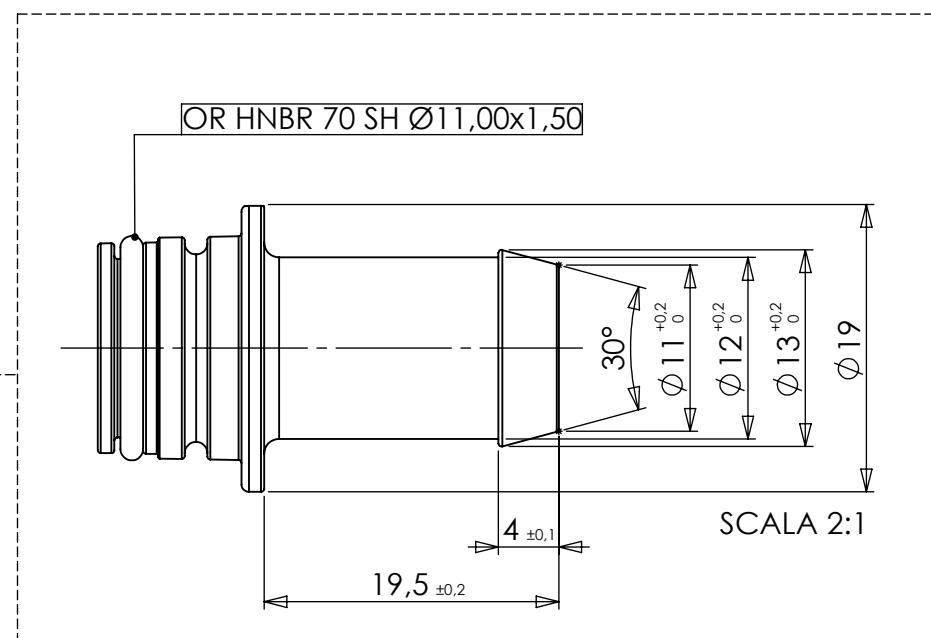
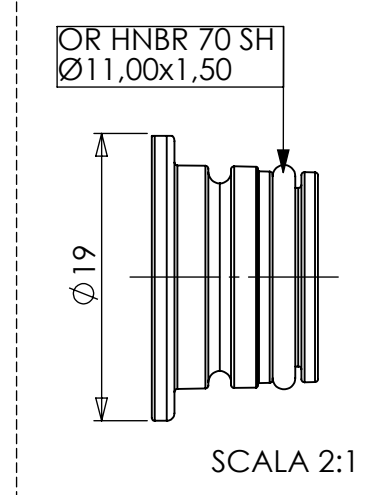


A detailed technical line drawing of a four-cylinder engine block. The drawing shows the cylinder heads at the top, each with two valves (intake and exhaust). The connecting rods are visible, connecting the pistons to the crankshaft. The engine is shown from a front-three-quarter perspective, highlighting the symmetrical arrangement of the cylinders.

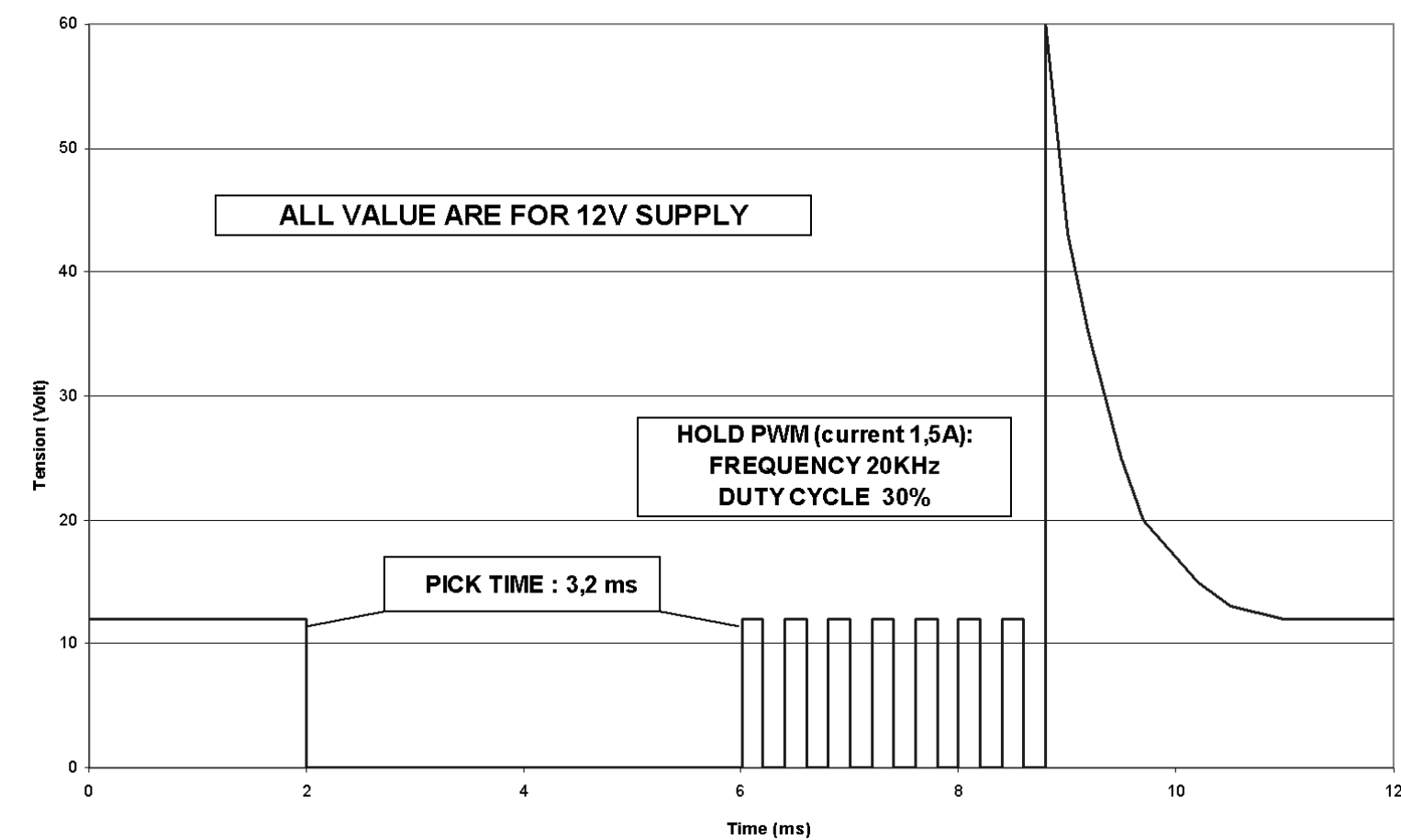
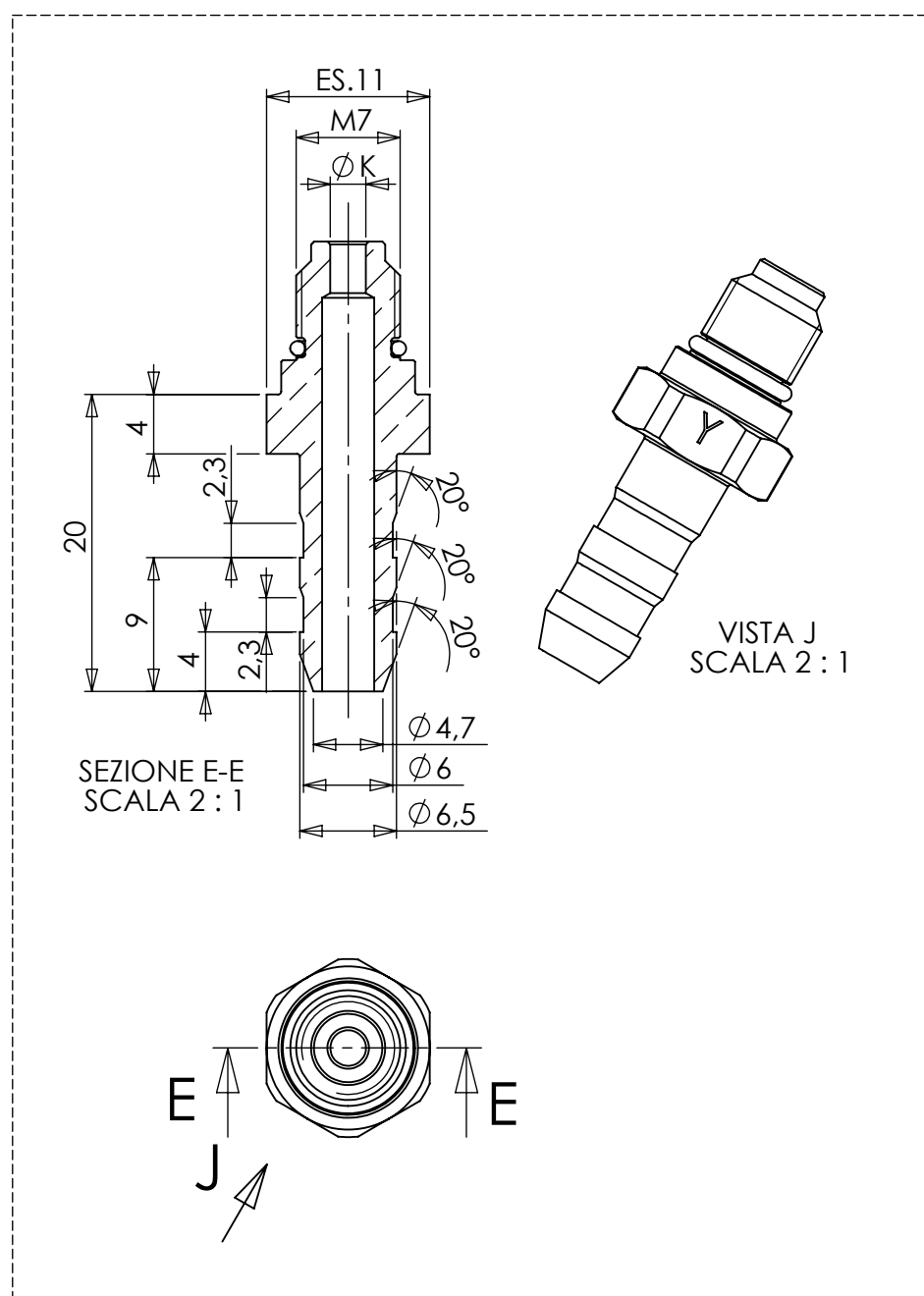
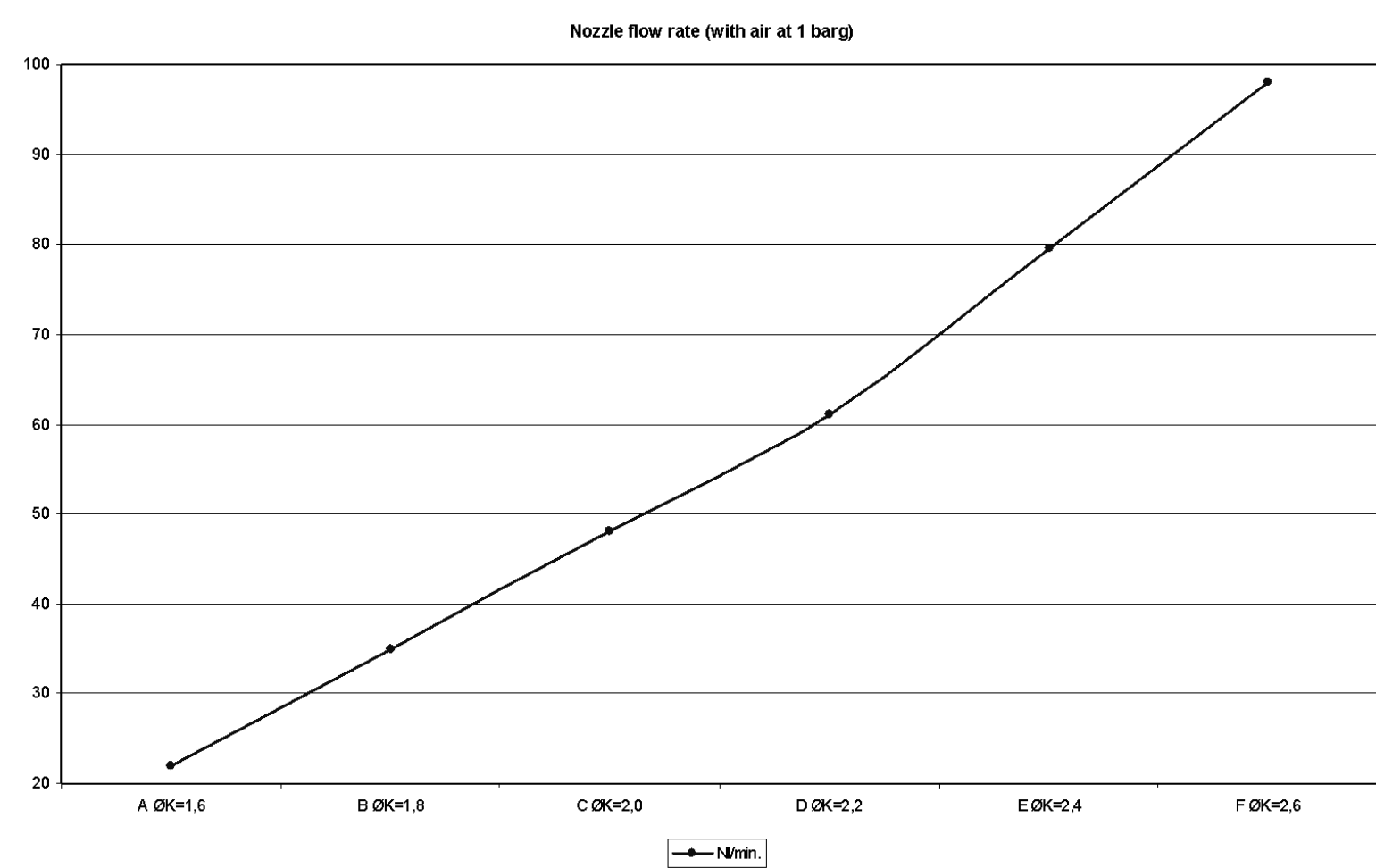
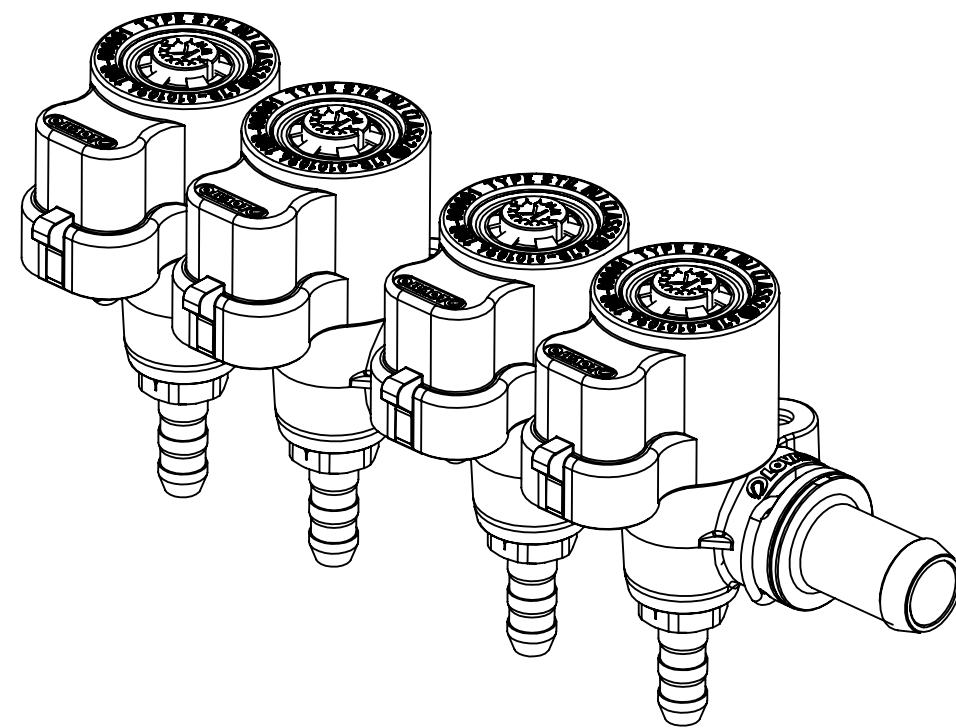
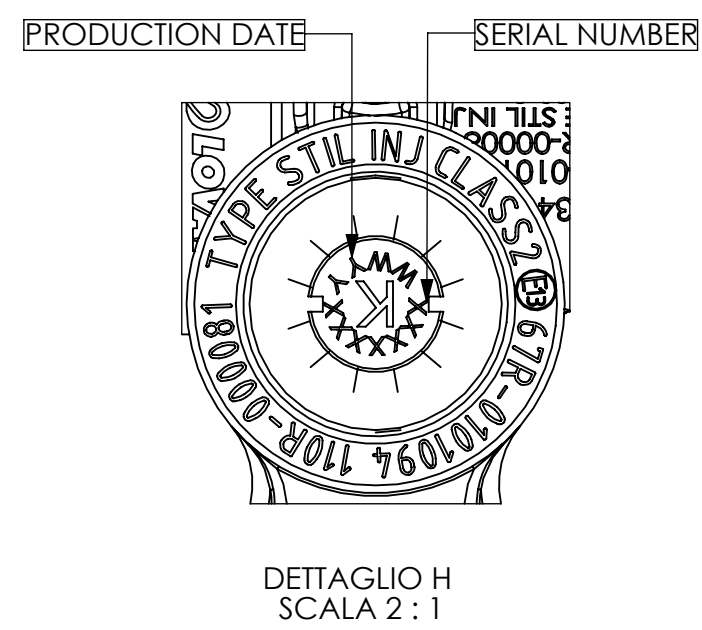
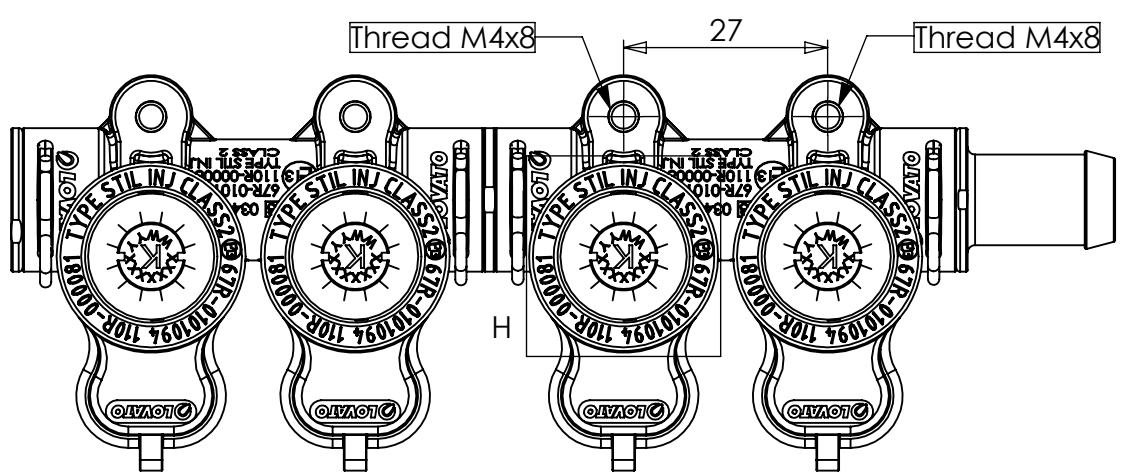


SEZIONE A-A
SCALA 2:1

The injectors are produced and tested at end of line without nozzles

Ref.	Description	Material	Um.	Q.ty
1	INJECTOR FAST KP	-	NR	4
1a	SOLENOID 12V-20HM AMP SUPERSEAL	PA 66 - COPPER WIRE	NR	4
1b	INJECTOR BODY D.3,4	BRASS - NICKEL PLATE	NR	4
1c	INJECTOR SPRING	STEEL WIRE	NR	4
1d	INJECTOR FIX CORE	MAGNETIC STEEL	NR	4
1e	INJECTOR PLUNGER	MAGNETIC STEEL	NR	4
1f	OR 70 SH D.9,00x1,00	HNBR RUBBER	NR	4
1i	OR 70 SH D.10,00x1,00	HNBR RUBBER	NR	4
1l	OR 70 SH D.6,80x0,60	HNBR RUBBER	NR	4
1m	WASHER FOR SHAFT D.9	STEEL STRIP	NR	4
2	DISTRIBUTOR FAST 2 CIL	PLASTIC	NR	2
4	NOZZLE INJECTOR FAST	BRASS	NR	4
4a	OR 70 SH D.5,50x1,00	HNBR RUBBER	NR	4

Production test	Value
Regulation of displace	OK
External leakage body sealing at 2 barg	< 15 cc/h
External leakage seat at 2 barg	< 15 cc/h
External leakage thread sealing at 2 barg	< 15 cc/h
Response time (at 12V DC & 1 barg)	OK



General Characteristics	
Application fuel	LPG, CNG
Storage temperature	-40 to 140° C
Operating temperature	- 20 to 120° C
Gas temperature	-10 to 95° C
Operating pressure range (12V DC)	50 to 400 kPa
Maximum operating frequency	100 Hz
External Leakage assembly	<15 cc/h
Gaseous phase filtration ratio require	min. 100 microns
Electrical Characteristics	
Electrical control	on the drawing
Supply voltage range	10V to 16V DC
Coil resistance	2,1 ohm
Pick Current	4 A
Hold current	1,5 A
Minimum functional voltage (at 1 barg)	6V DC
IP protection grade	IP65
Performance	
Repeatability	± 10%
Opening response time (at 1 barg & 14V DC)	2,2 ms ± 0,15 ms
Closing response time (at 1 barg & 14V DC)	2,1 ms ± 0,15 ms
Durability	
Input Signal	80 Hz - dc 50%
Voltage	16V DC
Fluid	wet air at 70° C
Cycle	300 M
Mechanical Characteristics and Connections	
Dimension	on the drawing
Electrical connections	on the drawing
Pneumatic connections	on the drawing
Regulation Compliance	
ECE R67 approval	67R-010194
ECE R110 approval	110R-000081
72/245/CEE Directive 2006/28/EC approval	e13 - 034065

First emission:		
REV.	DESCRIZIONE MODIFICA			DATA MODIFICA	
NOTE				DIS. MODIFICA	
			MATERIALE		
			RUGOSITA' Ra in um		
RAGGI NON QUOTATI					
SMAUSSI NON QUOTATI					
DISEGNATORE		APPROVATORE		QUOTE SENZA INDICAZIONE DI TOLLERANZA	
DATA 12/01/2010		12/01/2010		SCALA 1:1	
FIRMA MARTINI		GRITTI		FORMATO A1	
		DESCRIZIONE			
		<p align="center">INJECTOR RAIL KP</p>			
A NORMA DELLE VIGENTI LEGGI IL DISEGNO NON PUO' ESSERE COPRATO, RIPRODOTTO, TRASMESSO A TERZI SENZA PREVENTIVA AUTORIZZAZIONE		ANALISI DI MODIFICA		CODICE	REVISIONE <div align="center">X597110</div> <div align="center">0</div>