

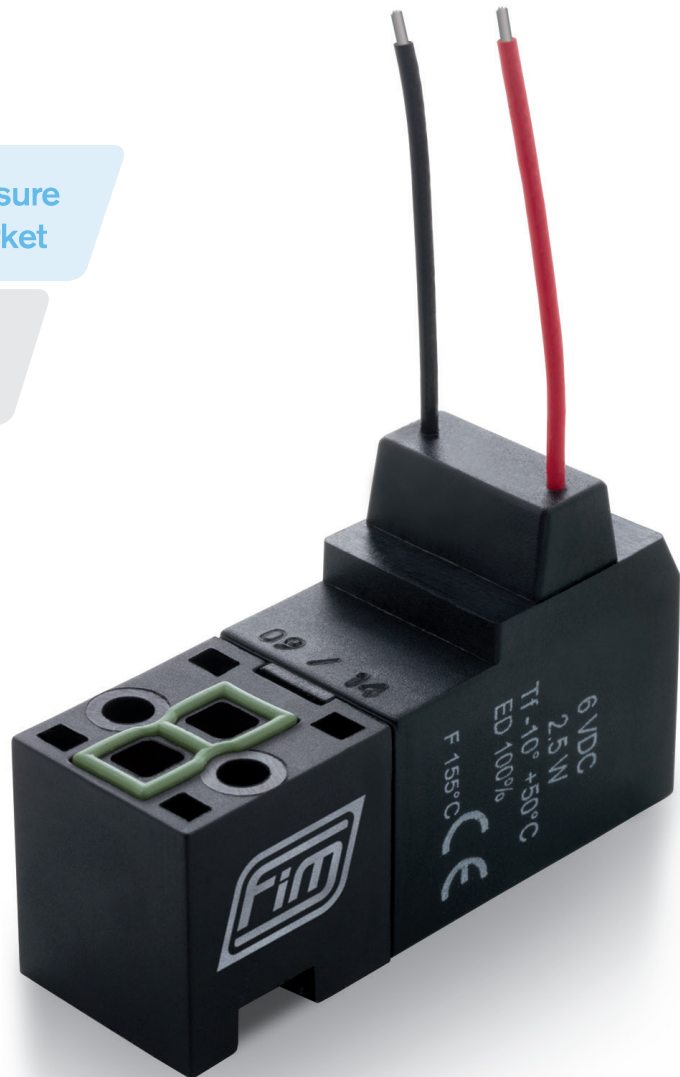
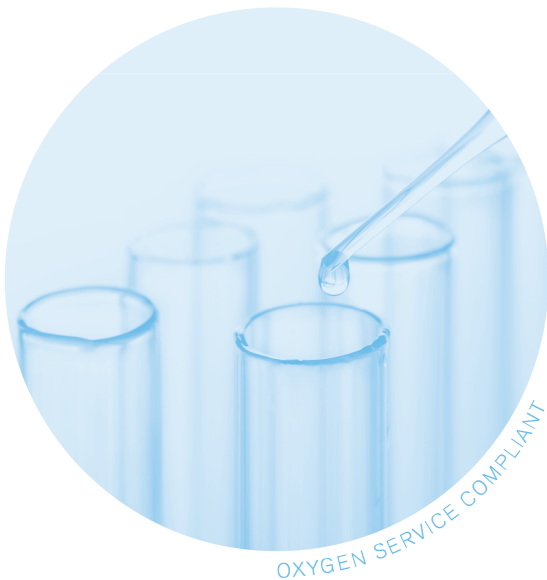


ITALIAN QUALITY AND FLEXIBILITY

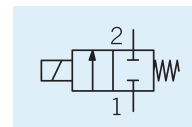
E.V. 15 mm 2/2 HF

Designed for high flow - low pressure
The most compact design in the market

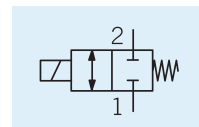
Ideata per bassa pressione - alta portata
Il design più compatto sul mercato



2/2 NC MONO



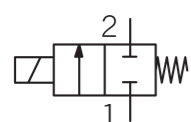
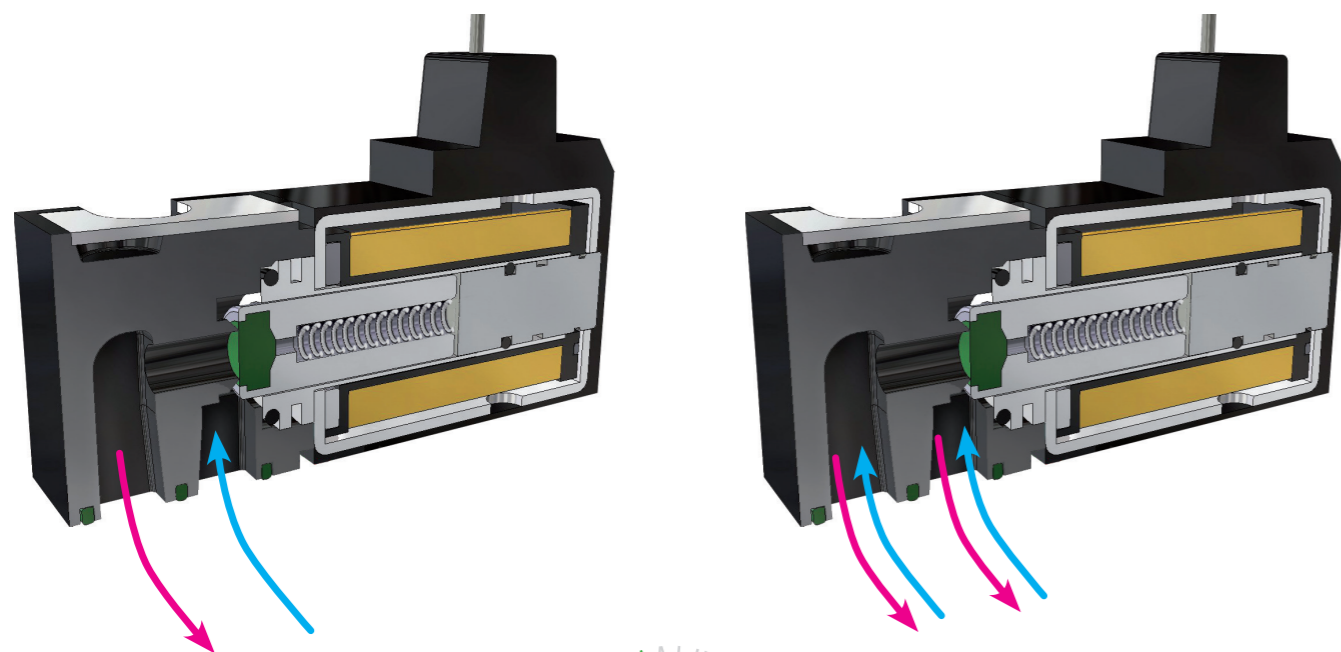
2/2 NC BI-DIR



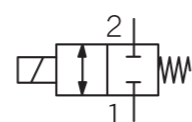
Monostable solenoid valves consists of an insulated copper wire class H (180°C) wound coil injection encapsulated with a glass fiber reinforced polyamide polymer and an independent valve body "click" separable.

This patented design solution allows to keep mechanical and electric parts separated guaranteeing greater ruggedness, reliability, consistency of performance and flexibility, making FIM competitive and the reference point on the market.

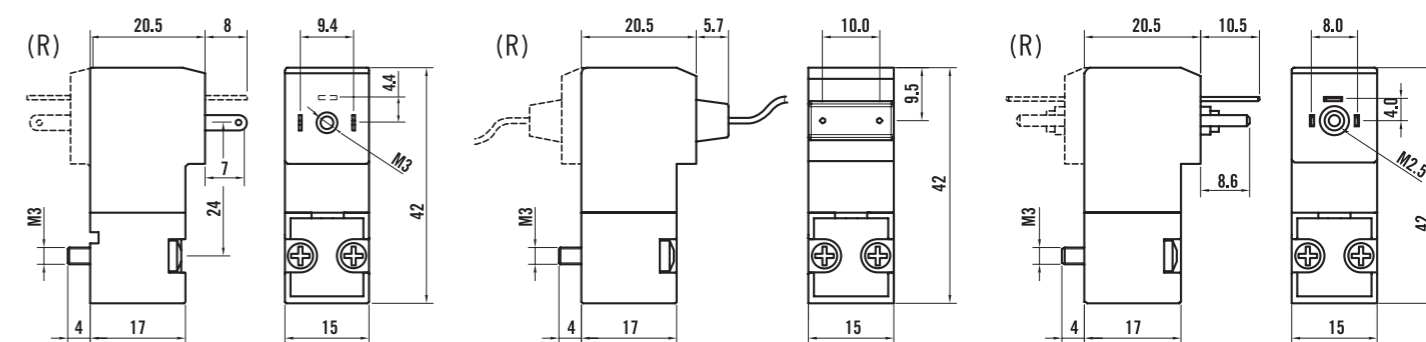
Microvalvola monostabile a solenoide costituita da una bobina avvolta con filo di rame smaltato classe H (180°C) ed inglobata ad iniezione con tecnopolimero polyammide caricato fibra vetro e da un corpo valvola indipendente separabile a "click". Questa soluzione costruttiva brevettata consente di mantenere separate la parte meccanica da quella elettrica garantendo maggiore robustezza, affidabilità, costanza di prestazioni e flessibilità produttiva che rendono FIM competitiva e punto di riferimento sul mercato.



2/2 N.C. MONO
(Normally closed)
(Normalmente chiusa)



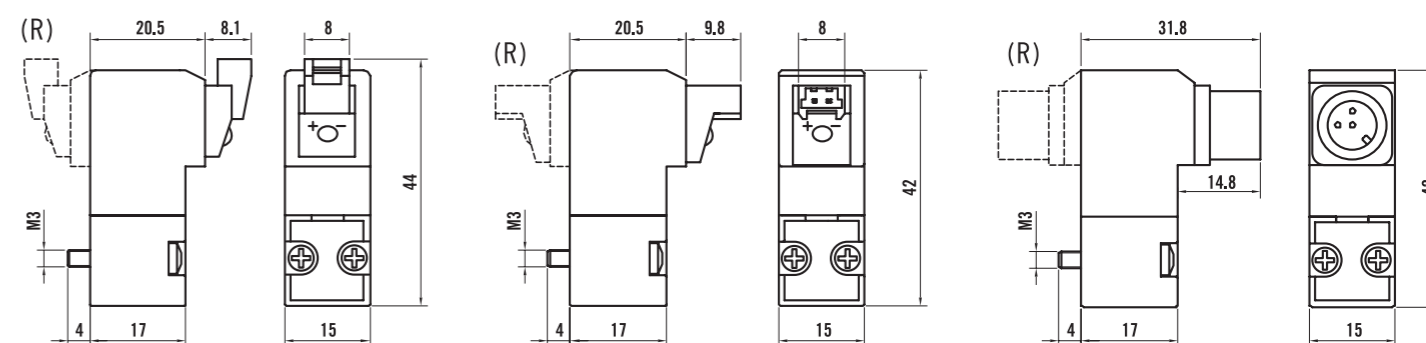
2/2 N.C. BI-DIR
(Normally closed)
(Normalmente chiusa)



FASTON STD [+ GROUND OPTIONAL FOR DC VERSION]
FASTON STD [+ TERRA OPZIONALE PER VERSIONE DC.]

ENCAPSULATED CABLES
CAVI INGLOBATI

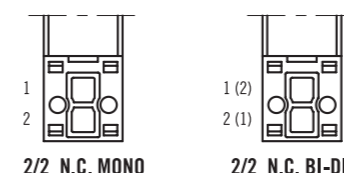
DIN FASTON 43650-C
FASTON DIN 43650-C



LINE CONNECTOR
CONNETTORE LINEA

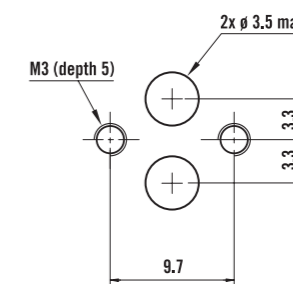
90° CONNECTOR
CONNETTORE 90°

M12 CIRCULAR CONNECTOR
CONNETTORE CIRCOLARE M12

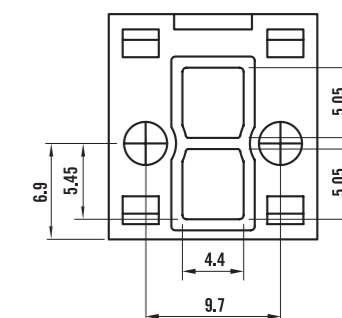


2/2 N.C. MONO

2/2 N.C. BI-DIR



SUGGESTED SUBBASE



PNEUMATIC INTERFACE



TECHINCAL SPECIFICATIONS

15 mm 2/2 HF

	Ø 2.0 mm MONO/BI-DIR			Ø 2.5 mm MONO/BI-DIR				Ø 3.0 mm MONO/BI-DIR			
	0 - 1 bar	0 - 2.5 bar		0 - 1 bar	0 - 2.5 bar			0 - 1 bar	0 - 2.5 bar		
Working pressure [bar]	0 - 1 bar	0 - 2.5 bar		0 - 1 bar	0 - 2.5 bar			0 - 1 bar	0 - 2.5 bar		
Nominal orifice size Ø [mm]	2.0			2.5				3.0			
Flow rate [l/min]	40 @ 1 bar	75 @ 2.5 bar		54 @ 1 bar	103 @ 2.5 bar			62 @ 1 bar	118 @ 2.5 bar		
Flow direction	bi-dir	mono	bi-dir	mono	bi-dir	mono	bi-dir	mono	bi-dir	mono	bi-dir
Power [Watt]	1 W	1.5 W	2.5 W	1 W	2 W	2 W	6.5 W*	1.5 W	2.5 W	2.5 W	8.5 W*
Voltages DC [Volt]	6 - 12 - 24 V DC			6 - 12 - 24 V DC				6 - 12 - 24 V DC			
Voltages AC 50/60 Hz [Volt]	24 V AC			24 V AC				24 V AC			
Voltage tolerance	±10%			±10%				±10%			
Response time (ISO 12238) [msec]	8			8				8			
Electrical insulation	1000 V AC			1000 V AC				1000 V AC			
Coil insulation class	F (180° C)			F (180° C)				F (180° C)			
Coil resistance tolerance	+/-5%			+/-5%				+/-5%			
Fluid/ambient temperature	-10° / +50° C			-10° / +50° C				-10° / +50° C			
Max working frequency [Hz]	30			30				30			
Duty cycle	100% ED			100% ED*				100% ED*			
Life expectancy	> 50 Million cycles			> 50 Million cycles				> 50 Million cycles			
Fixing	2 screws M3 x 18			2 screws M3 x 18				2 screws M3 x 18			
Weight	10 gr			10 gr				10 gr			
Protection degree (IEC 60529)	IP65 (with cables, faston and M12)			IP51 (with 90° or Line connector)							

* this power is NOT rated 100% ED, an external PWM driver is recommended if used 100% ED

CODIFICATIONS

15 mm 2/2 HF

H5	FUNCTION	VOLTAGE	/	(R)	ELECTRICAL CONNECTION	ORIFICE SIZE	PRESSURE
M	2/2 NC MONO	1 = 24 Vdc		R = Rotated Coil 180°	0 = Faston standard (9.4 mm)	A = Ø 2.0 mm	1 = 1 bar
B	2/2 NC BI-DIR	2 = 12 Vdc			1 = Faston DIN form-C (8 mm)	B = Ø 2.5 mm	2 = 2.5 bar
		4 = 6 Vdc			2 = Encapsulated cables 300 mm	C = Ø 3.0 mm	higher upon request
		5 = 24 Vac 50/60 Hz			3 = M12 circular connector		
		6 = 110 Vac 50/60 Hz			6 = 90° Connector		
		7 = 230 Vac 50/60 Hz			7 = Line Connector		
					6L = 90° + LED & suppressor diode		
					7L = Line + LED & suppressor diode		

Example: **H5B2/2C1** = 15 mm 2/2 NC BI-DIR 12 Vdc 2.5 W Cables 300 mm Ø 3.0 mm 1 bar

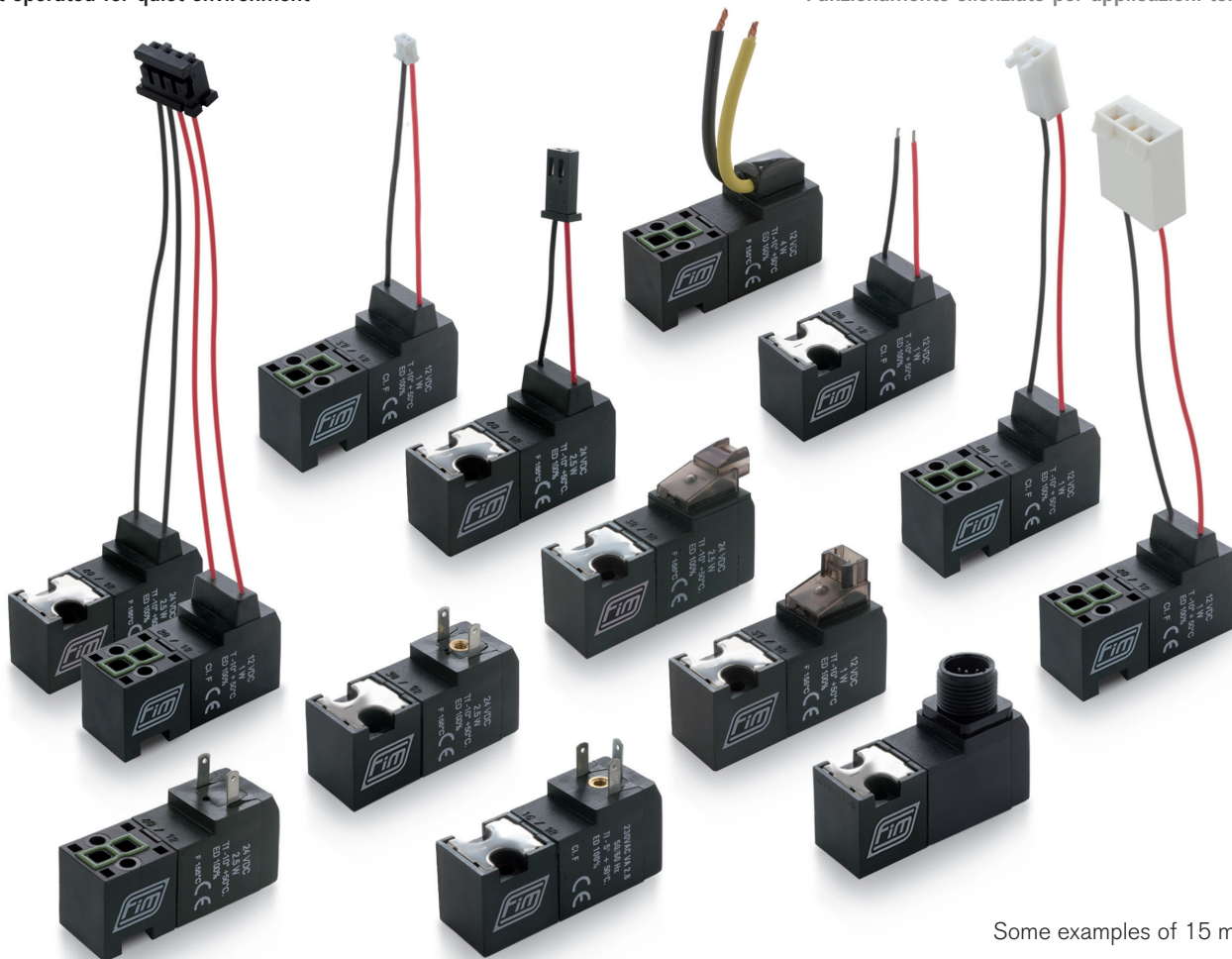


Customizations available on request

- Voltages (Volt)
- Powers (Watt)
- Electrical connectors (Molex, Tyco, Hirose, Jst)
- IP Protection (Potting compound for applications IP 67)
- Pressures
- Silent operated for quiet environment

Personalizzazioni disponibili su richiesta

- Tensioni (Volt)
- Potenze (Watt)
- Connettori elettrici (Molex, Tyco, Hirose, Jst)
- Protezione IP (Resinatura per applicazioni IP 67)
- Pressioni
- Funzionamento silenzioso per applicazioni terapeutiche



Some examples of 15 mm 2/2 HF
Alcuni esempi di valvole 15 mm 2/2 HF

traceability code
codice di rintracciabilità

WW Y XXXXX
week valve body ref.
year
...
Z=2012
A=2013
B=2014
C=2015
...



Coil can be rotated in any position with a "click" system
Bobina orientabile in ogni posizione con sistema a "click"

MODULAR
SYSTEM
PATENTED IN 1996

SISTEMA
COSTRUTTIVO
MODULARE
BREVETTATO DAL 1996



ITALIAN QUALITY AND FLEXIBILITY