

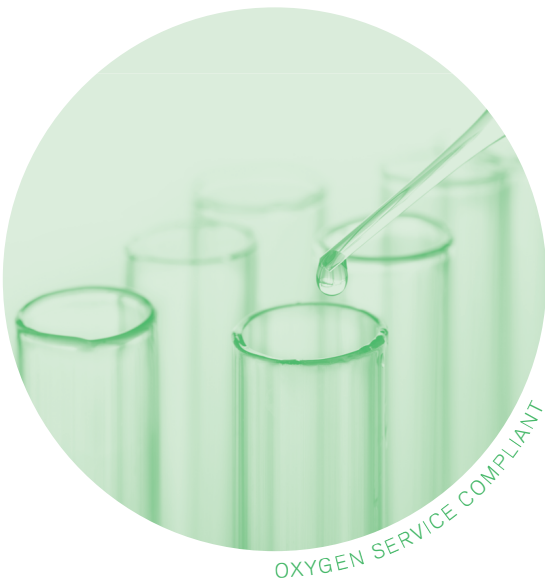


ITALIAN QUALITY AND FLEXIBILITY

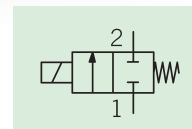
E.V. 10 mm 2/2 HF

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

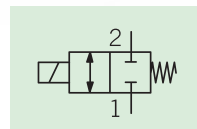
Ideata per bassa pressione - alta portata
Il design più compatto sul mercato



2/2 NC MONO



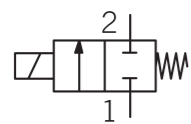
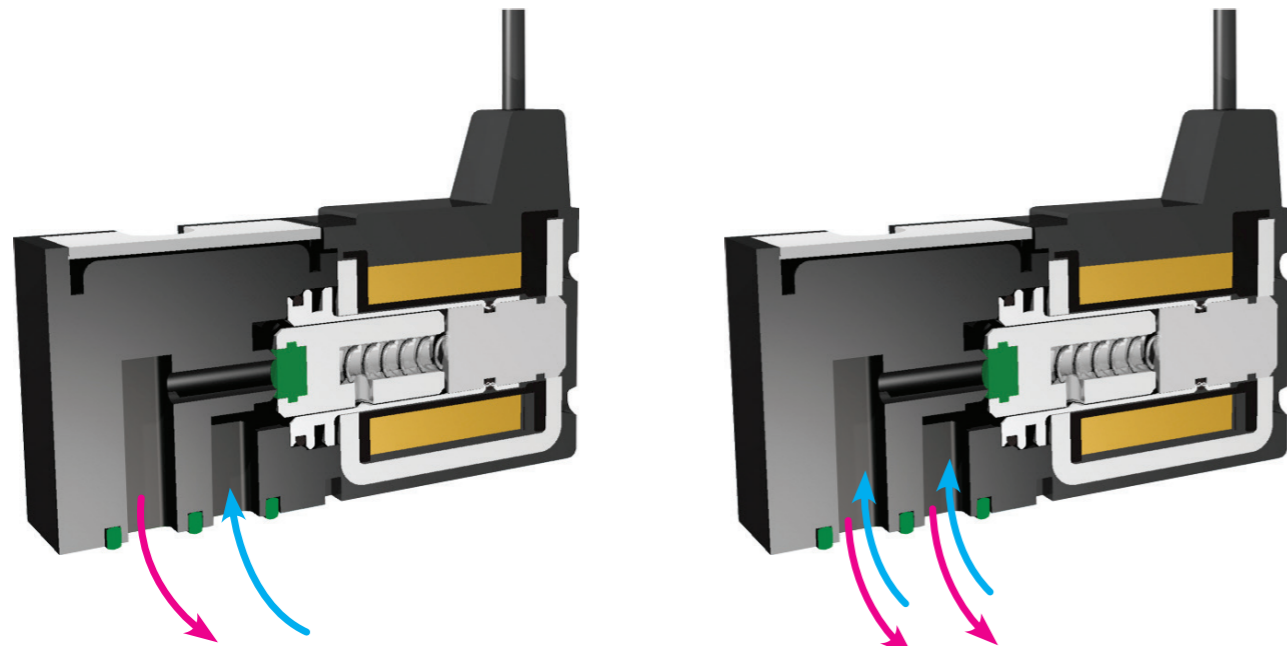
2/2 NC BI-DIR



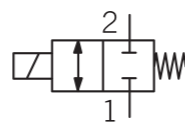
Monostable solenoid valve consists of an insulated copper wire class F (155°C) wound coil injection encapsulated with a glass fiber reinforced polyamide polymer and an independent valve body "click" separable.

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.

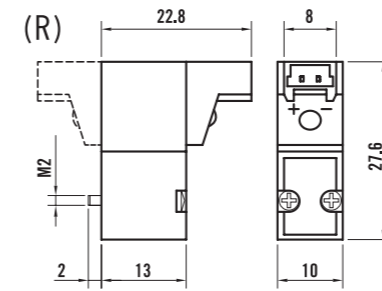
Microvalvola monostabile a solenoide costituita da una bobina avvolta con filo di rame smaltato classe F (155°C) ed inglobata ad iniezione con tecnopolimero polyammide caricato fibra vetro e da un corpo valvola indipendente separabile a "click". Questa soluzione costruttiva brevettata consente di mantenere 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.



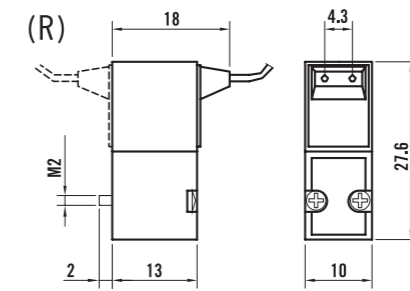
2/2 N.C. MONO
(Normally closed)
(Normalmente chiusa)



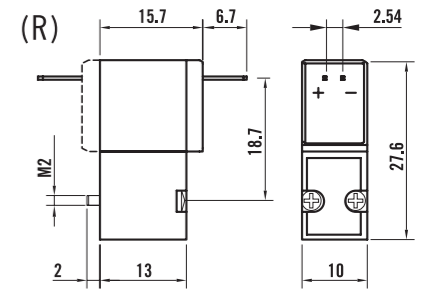
2/2 N.C. BI-DIR
(Normally closed)
(Normalmente chiusa)



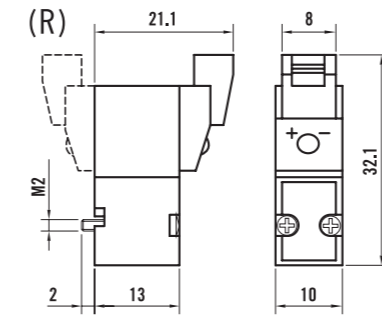
90° CONNECTOR
CONNETTORE 90°



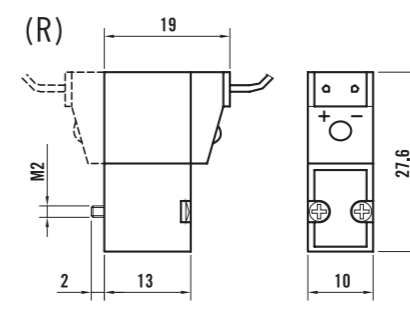
ENCAPSULATED CABLES (NO PCB)
CAVI INGLOBATI (NO ELETTRONICA)



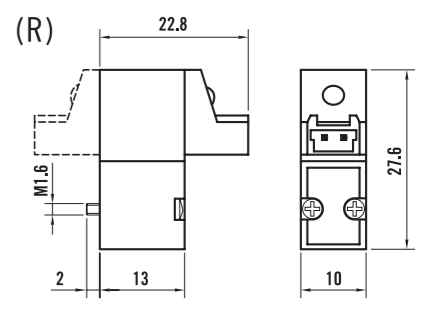
PCB MOUNTING PINS
PIN USCENTI



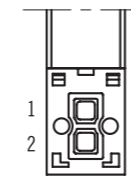
LINE CONNECTOR
CONNETTORE LINEA



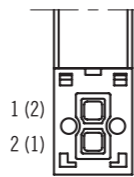
PCB COVER CAP + CABLES
CUFFIA + CAVI



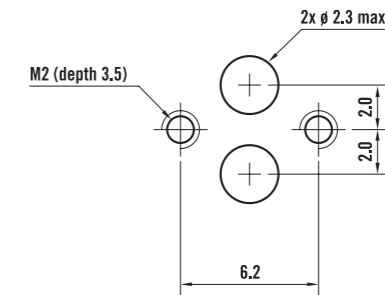
180° CONNECTOR FOR AC
CONNETTORE 180° PER AC



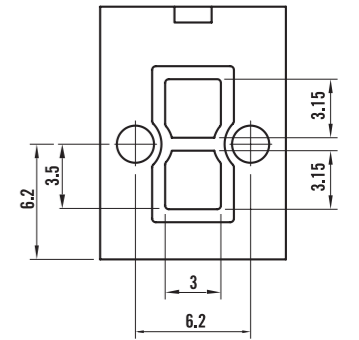
2/2 N.C. MONO



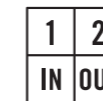
2/2 N.C. BI-DIR



SUGGESTED SUBBASE



PNEUMATIC INTERFACE



TECHINCAL SPECIFICATIONS

10 mm 2/2 HF

	Ø 0.8 mm MONO/BI-DIR		Ø 1.2 mm MONO/BI-DIR				Ø 1.4 mm MONO/BI-DIR				Ø 1.6 mm MONO		Ø 2.0 mm MONO					
	mono	bi-dir	mono	bi-dir	mono	bi-dir	mono	bi-dir	mono	bi-dir	mono	mono	mono	mono				
Working pressure [bar]	0 - 2.5 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]	0.8		1.2				1.4				1.6		2.0					
Flow rate [l/min]	15 @ 2.5 bar		16 @ 1 bar		30 @ 2.5 bar		20 @ 1 bar		35 @ 2.5 bar		22 @ 1 bar		41 @ 2.5 bar		32 @ 1 bar		58 @ 2.5 bar	
Flow direction	mono	bi-dir	mono	bi-dir	mono	bi-dir	mono	bi-dir	mono	bi-dir	mono	mono	mono	mono				
Power [Watt]	0.6 W	1.3 W	0.6 W	1.3 W	1.3 W	2.8 W*	0.8 W	2 W	1.3 W	3.5 W*	1.7 W	2.8 W*	2.8 W*	5.5 W*				
Voltages DC [Volt]	6 - 12 - 24 V DC		6 - 12 - 24 V DC				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				24 V AC		24 V AC					
Voltage tolerance	±10%		±10%				±10%				±10%		±10%					
Response time (ISO 12238) [msec]	6		6				6				6		6					
Electrical insulation	1000 V AC		1000 V AC				1000 V AC				1000 V AC		1000 V AC					
Coil insulation class	F (155° C)		F (155° C)				F (155° C)				F (155° C)		F (155° C)					
Coil resistance tolerance	+/-5%		+/-5%				+/-5%				+/-5%		+/-5%					
Fluid/ambient temperature	-10° / +50° C		-10° / +50° C				-10° / +50° C				-10° / +50° C		-10° / +50° C					
Max working frequency [Hz]	30		30				30				30		30					
Duty cycle	100% ED		100% ED*				100% ED*				100% ED*		100% ED*					
Life expectancy	> 50 Milion cycles		> 50 Milion cycles				> 50 Milion cycles				> 50 Milion cycles		> 50 Milion cycles					
Fixing	2 screws M2 x 14		2 screws M2 x 14				2 screws M2 x 14				2 screws M2 x 14		2 screws M2 x 14					
Weight	10 gr		10 gr				10 gr				10 gr		10 gr					
Protection degree (IEC 60529)			IP65 (coil with encapsulated cables)				IP51 (with 90° or Line connector)											

* this power is NOT rated 100% ED, a PWM controller - external or integrated (optional) - is recommended if used 100% ED
optional PWM integrated: 100% pull-in power (15 msec) / 10% holding power (12 or 24 Vdc, 90° or Line connector only - voltage tolerance may vary)

CODIFICATIONS

10 mm 2/2 HF

HO	FUNCTION	VOLTAGE	/ (R)	ELECTRICAL CONNECTION	ORIFICE SIZE	PRESSURE
M	2/2 NC MONO	1 = 24 Vdc	R = Rotated Coil 180°	1 = 90° Connector + Led & suppressor diode	A = Ø 0.8 mm	1 = 1 bar
B	2/2 NC BI-DIR	2 = 12 Vdc		2 = Encapsulated Cables 300 mm (IP65 no electronics)	B = Ø 1.2 mm	2 = 2.5 bar
		3 = 24 Vac 50/60 Hz		3 = Line Connector + Led & suppressor diode	C = Ø 1.4 mm	higher upon request
		4 = 6 Vdc		4 = 90° Connector without Led	D = Ø 1.6 mm	
				5 = Line Connector without Led	E = Ø 2.0 mm	
				6 = PINs with flat cover without Led		
				7 = PINs with flat cover + Led & suppressor diode		
				8 = Cover cap + Cables 300 mm (IP51 with electronics)		
				9 = Spring contacts for PCB mounting		
				14 = Cables 100 mm+Molex M. (p/n 51006-0200)		
				15 = Cables 100 mm+Tyco MODU II (p/n 280358-0)		
				18 = Cables 100 mm+Molex F. (p/n 51065-0200)		



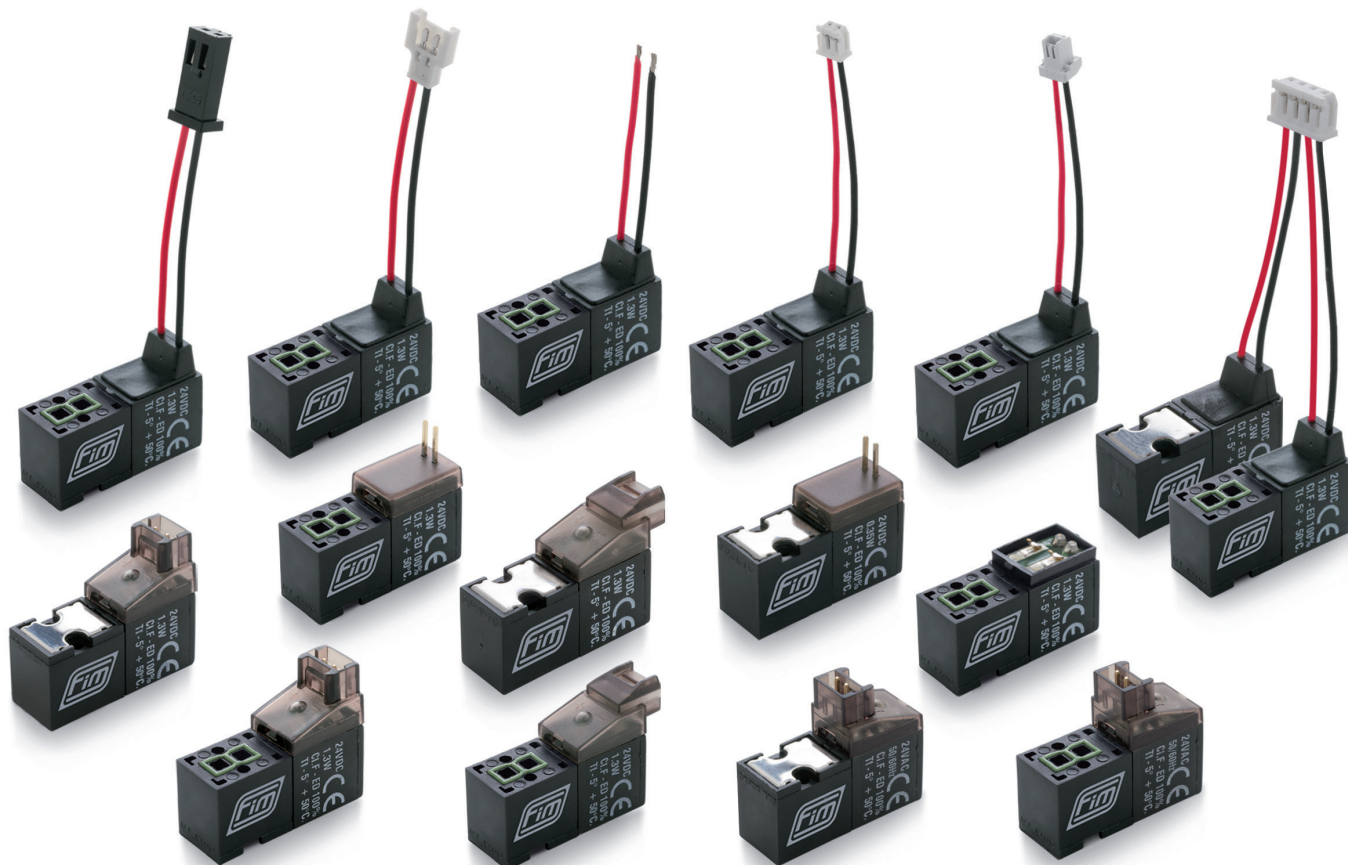
Example: **HOM1/2C2** = 10 mm 2/2 NC MONO-DIR 24 Vdc 1.3 W Cables 300 mm Ø 1.4 mm 2.5 bar

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

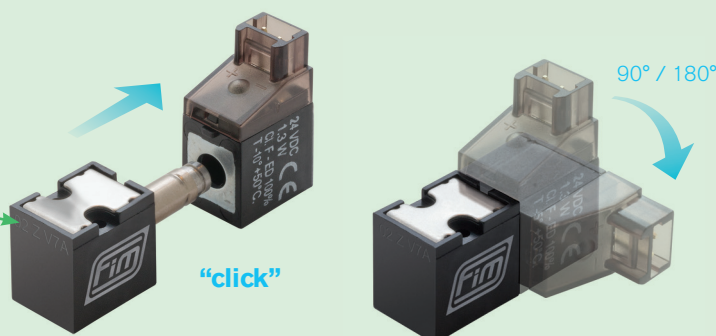
- Tensioni (Volt)
- Potenze (Watt)
- Connettori elettrici (Molex, Tyco, Hirose, Jst)
- Protezione IP (Resinatura per applicazioni IP 67)
- Pressioni
- Funzionamento silenzioso per applicazioni terapeutiche



Some examples of 10 mm 2/2 HF
Alcuni esempi di valvole 10 mm 2/2 HF

traceability code
codice di rintracciabilità

WW Y XXX
week 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