

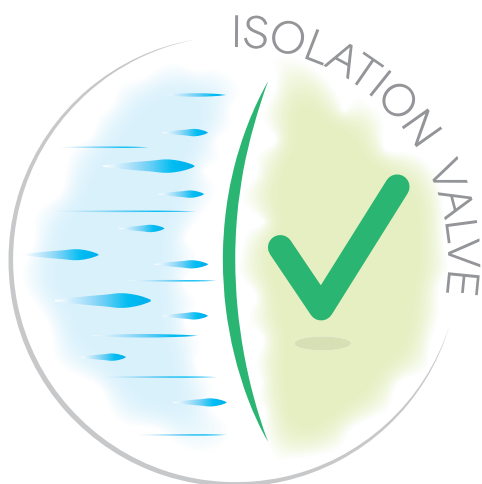


ITALIAN QUALITY AND FLEXIBILITY

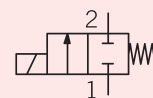
E.V. 10 mm 2/2 MS

Media separate valve – diaphragm membrane
Ideal for ink-jet, solvent and medical applications

Valvola a separazione di fluido - membrana
Ideale per applicazioni medicali, a getto d'inchiostro e con solventi



2/2 NC MONO

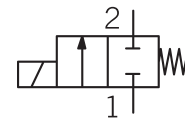
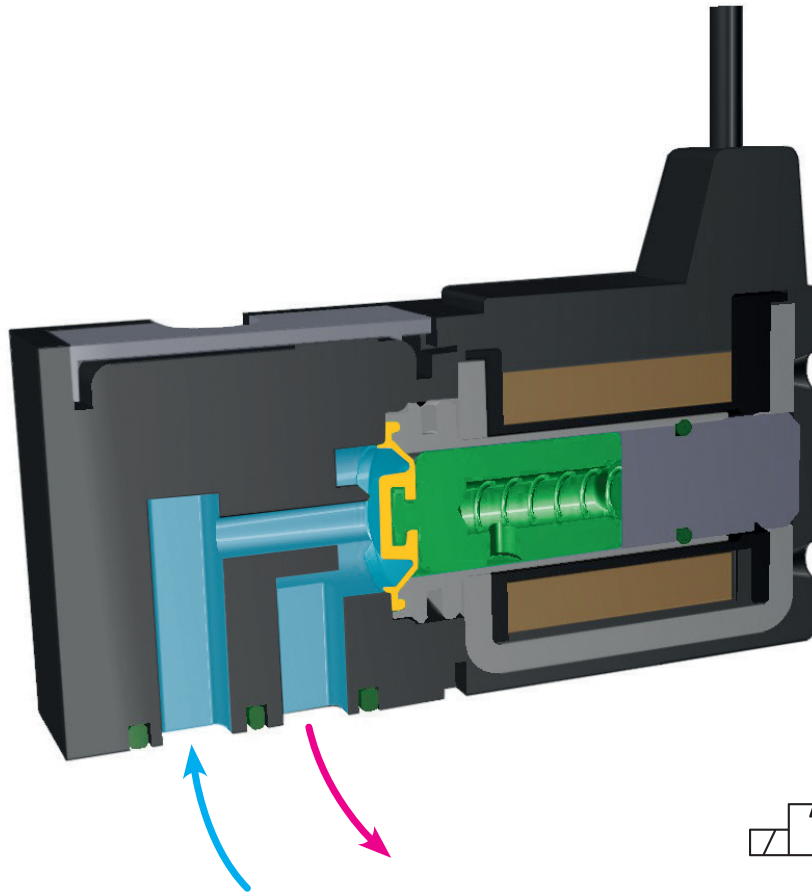


Monostable isolation media separate solenoid valve consisting of an insulated copper wire class F (155°C) wound coil injection encapsulated by glass fiber reinforced polyamide polymer and an independent valve body built by a diaphragm membrane internal mechanics.

This design solution allows to keep fluid and internal mechanism separated guaranteeing a total isolation from the gas or liquid from the internal metal materials avoiding problems or corrosion, chemical compatibility and contamination for applications with aggressive agents or where there is a need to wash unwanted residuals in circuits which use solvents, inks or disinfectants.

Elettrovalvola monostabile a separazione di fluido 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 costruito con una meccanica interna a membrana.

Questa soluzione costruttiva consente di mantenere separato il fluido dal meccanismo interno garantendo il totale isolamento del gas o del liquido dal contatto con i materiali metallici interni evitando problemi di corrosione, compatibilità chimica e contaminazione per le applicazioni con sostanze aggressive o laddove vi sia la necessità di effettuare lavaggi di residui indesiderati in impianti che usano solventi, inchiostri o disinfettanti.



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

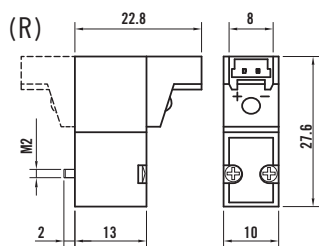


TECHNICAL SPECIFICATIONS

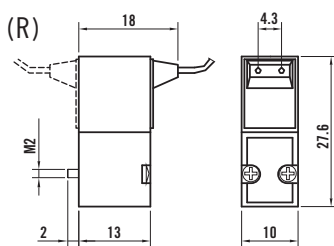
10 mm 2/2 MS

	Ø 0.8 mm		Ø 1.2 mm		Ø 1.4 mm		Ø 1.6 mm	
Working pressure [bar]	0 - 2.5 bar	0 - 5 bar	0 - 2.5 bar	0 - 5 bar	0 - 1 bar	0 - 2.5 bar	0 - 1 bar	0 - 2.5 bar
Flow rate at max pressure [l/min]	15	25	30	50	18	35	22	40
Power [Watt]	1.3 W	2.0 W	2.0 W	5.5 W*	2.0 W	3.5 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	
Voltages AC 50/60Hz [Volt]	24 V AC		24 V AC		24 V AC		24 V AC	
Voltage tolerance	±10%		±10%		±10%		±10%	
Response time (ISO 12238) [msec]	6		6		6		6	
Electrical insulation	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)	
Coil resistance tolerance	+/-5%		+/-5%		+/-5%		+/-5%	
Fluid/ambient temperature	-10° / +50° C		-10° / +50° C		-10° / +50° C		-10° / +50° C	
Max working frequency [Hz]	30		30		30		30	
Duty cycle	100% ED		100% ED		100% ED		100% ED	
Life expectancy	> 50 Million cycles		> 50 Million cycles		> 50 Million cycles		> 50 Million cycles	
Fixing	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	
Protection degree (IEC 60529)	IP65 (with encapsulated cables)				IP51 (with 90° or Line connector)			

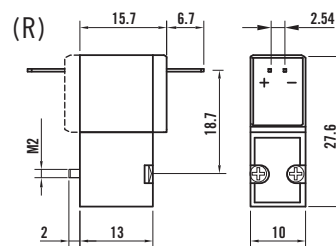
*this power is NOT rated 100% ED, a PWM controller - external or integrated (optional) - is recommended if used 100% ED
optional PWM integrated: 100% pull-in power (15 msec) / 10% holding power (12 or 24 Vdc, 90° or Line connector only - voltage tolerance may vary)



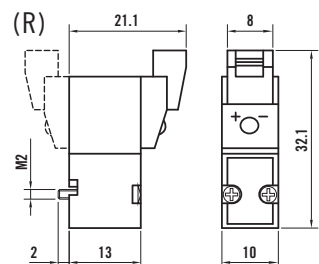
90° CONNECTOR
CONNETTORE 90°



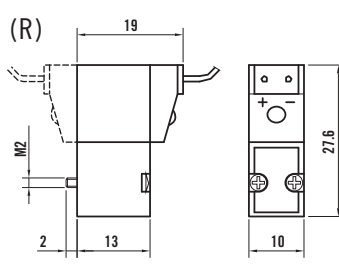
ENCAPSULATED CABLES (NO PCB)
CAVI INGLOBATI (NO ELETTRONICA)



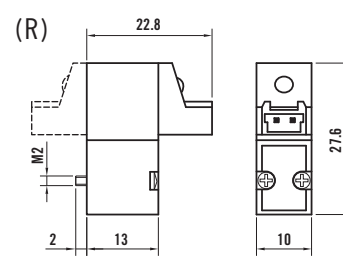
PCB MOUNTING PINS
PIN USCENTI



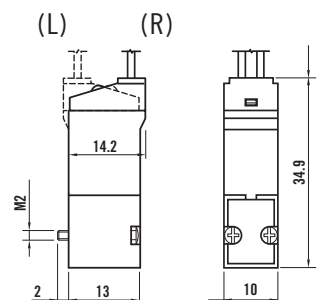
LINE CONNECTOR
CONNETTORE LINEA



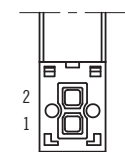
PCB COVER CAP + CABLES
CUFFIA + CAVI



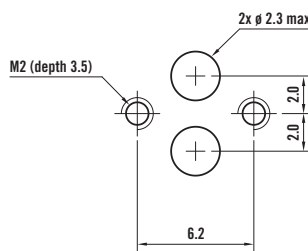
180° CONNECTOR FOR AC
CONNETTORE 180° PER AC



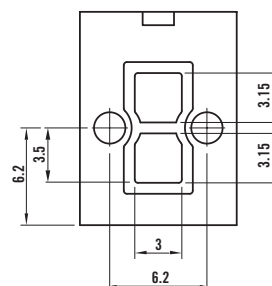
VERTICAL COIL
(RIGHT / LEFT)



2/2 N.C. MONO



SUGGESTED SUBBASE



PNEUMATIC INTERFACE

CODIFICATIONS

10 mm 2/2 MS

MS	O	FUNCTION	VOLTAGE	/	(R)	ELECTRICAL CONNECTION	ORIFICE SIZE	PRESSURE
		M = 2/2 NC	1 = 24 Vdc 2 = 12 Vdc 3 = 24 Vac 50/60 Hz 4 = 6 Vdc 7 = 24 Vdc 0.9 W S.U. Analog 9 = 12 Vdc 0.9 W S.U. Analog A = 24 Vdc 0.3 W PWM Digital B = 12 Vdc 0.3 W PWM Digital		R = Rotated coil 180° VR = Vertical right VL = Vertical left	1 = 90° Connector + LED & suppressor diode 2 = Encapsulated Cables 300 mm (IP65 no electronics) 3 = Line Connector + LED & suppressor diode 4 = 90° Connector without LED 5 = Line Connector without LED 6 = PINs with flat cover without LED 7 = PINs with flat cover + LED & suppressor 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)	A = Ø 0.8 mm B = Ø 1.2 mm C = Ø 1.4 mm D = Ø 1.6 mm	2 = 2.5 bar 5 = 5 bar 1 = 1 bar 2 = 2.5 bar



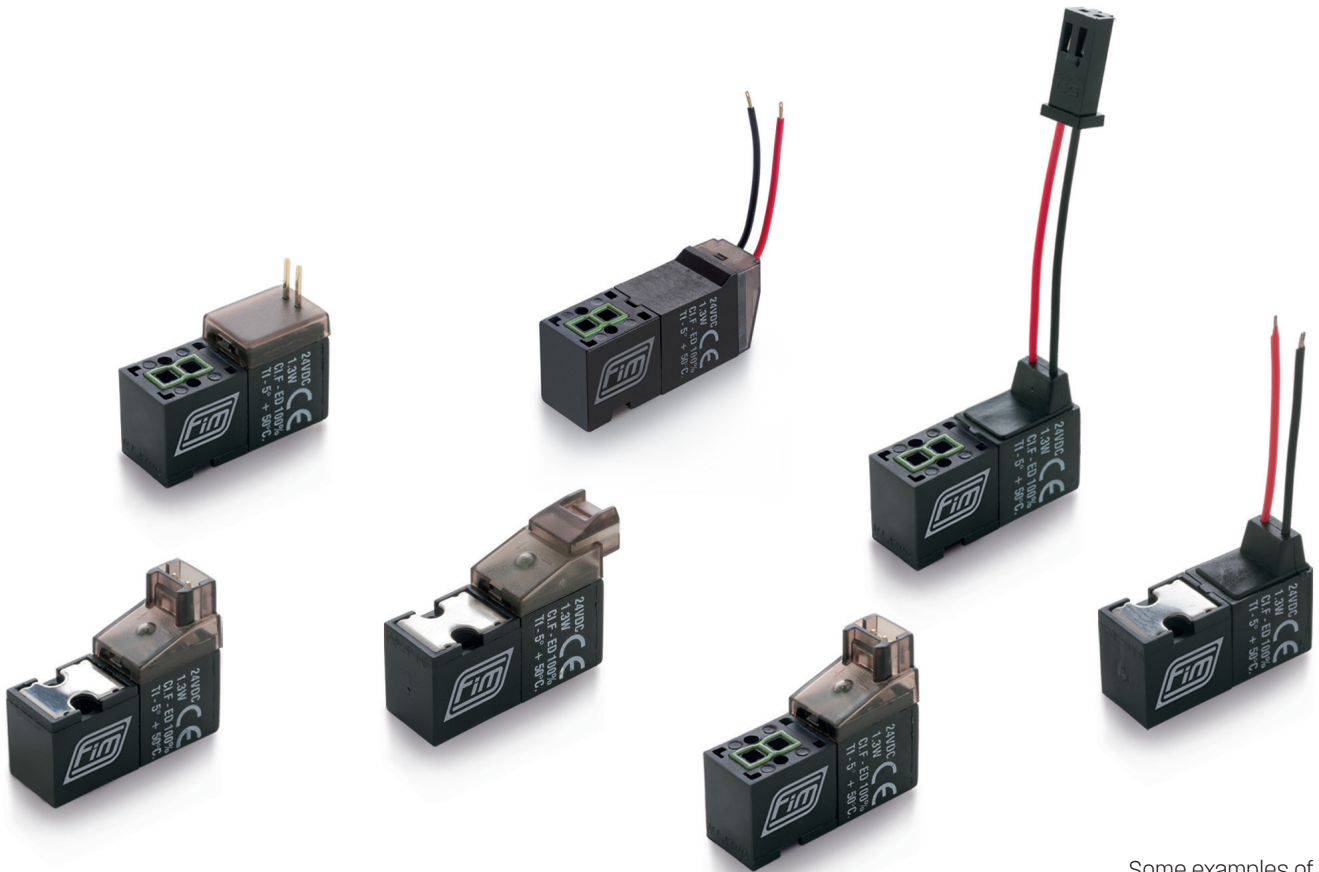
Example: MSOM1/VR8A2 = 10 mm 2/2 NC Ø 0.8 mm 2.5 bar 24 Vdc 1.3 W Vertical coil right Cables 300 mm

Customizations available on request

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

Personalizzazioni disponibili su richiesta

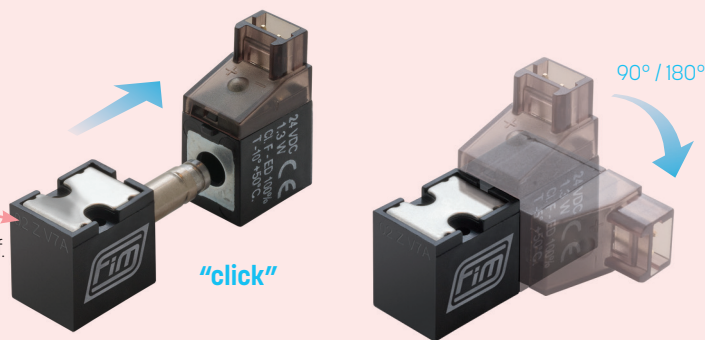
- Tensioni (Volt)
- Potenze (Watt)
- Connettori elettrici (Molex, Tyco, Hirose, Jst)
- Protezione IP (Resinatura per applicazioni IP 67)
- Pressioni (bar)
- Funzionamento silenzioso per ambienti quieti



Some examples of 10 mm
Alcuni esempi di valvole 10 mm

traceability code
codice di rintracciabilità

WW Y XXX
week | year | valve body ref.
...
H = 2020
I = 2021
J = 2022
K = 2023
...



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