

TG-B series on/off motorized valve

- For fan coil or heating control equipment, air-conditioning or heating system
- Available sizes: internal thread 1/2" - 3/4" - 1"
- On/off type 2-way normally-closed and 3-way
- Use fully-enclosed one-way hysteresis synchronous motor with spring return and water-proof function.
- The valve actuator can be installed after the body valve or onto the fan coil.

ORDER GUIDE

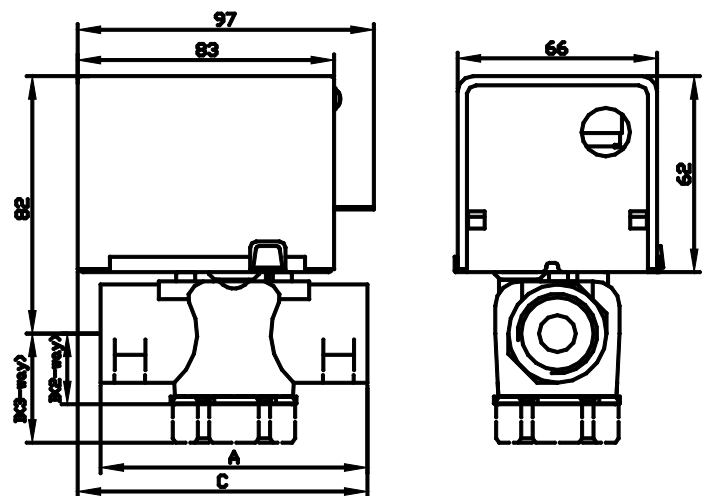
SKU	Size	Type	Kv(Cv)factor	Close-off Δ P(BAR)	Weight(g)
R05293	1/2"	2-way valve	2.2(2.5)	1.8	700
R05296	1/2"	3-way valve	2.6(3.0)	1.8	750
R05294	3/4"	2-way valve	3.0(3.5)	1.6	850
R05297	3/4"	3-way valve	3.4(4.0)	1.6	900
R05295	1"	2-way valve	6.9(8.0)	1.4	1000
R05298	1"	3-way valve	6.5(7.5)	1.4	1050

SPECIFICATIONS

Fields of application	water cooling or heating	
Power supply	230V,24V	
Power consumption	7W	
Operating fluid temperature range	0 - 90° C (non-freezing)	
Operating temperature range	0 - 40°C	
Operating time	Opening time	10 to 15 Seconds
	Closing time	4 to 5 Seconds
Operating pressure	300psi / 2.0Mpa	

Materials	Actuator	Stainless Steel Base Plate
	Cover	Aluminum
	Valve body	Forged Brass
	Seals	NBR

Model	DIMENSIONS (mm)		
	A	B	C
R05293	70	23	86
R05296	70	37	86
R05294	87	23	93
R05297	87	37	93
R05295	94	25	95
R05298	94	42	95



TG-B PIPING AND APPLICATION TIPS

These valves must be piped so that the paddle closes against the direction of water flow (See Fig.1), When installing the valve in NC mode, the actuator must be manually placed in the open position using the appropriate lever. Once the valve is electrically activated, the operating lever will automatically move into working mode.

TG-B valves are designed for use in closed-circuit water cooling and heating systems. Their use in open systems where significant amounts of water come into contact with the air is not recommended. The high levels of oxygen and chlorine dissolved in the water in open systems can cause breakages or malfunctions. When using chilled water, it is advisable to install a condensate collection tray under the valve.

ACTUATOR WIRING

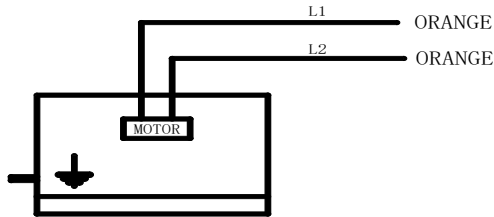


Fig. 9: Wiring with no Auxiliary Switch

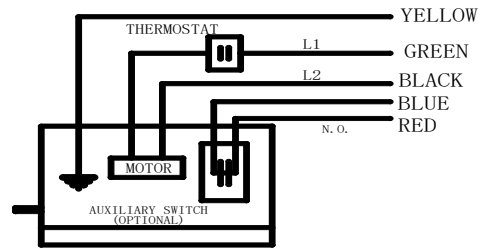


Fig. 10: Wiring with Auxiliary Switch

SW-B BODY CONFIGURATION

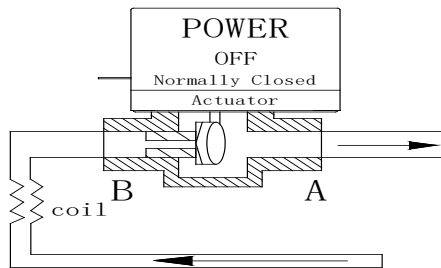


Fig. 1: 2-way Normally Closed to the Coil

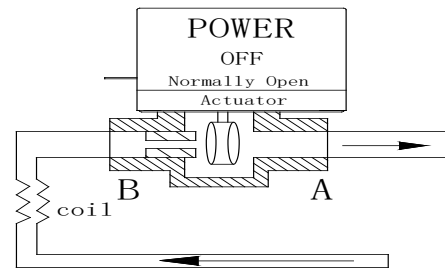


Fig. 2: 2-way Normally Open to the Coil

3-way is only configured as N.C. to B port for N.O. configuration to the coil, simply turn the valve around.

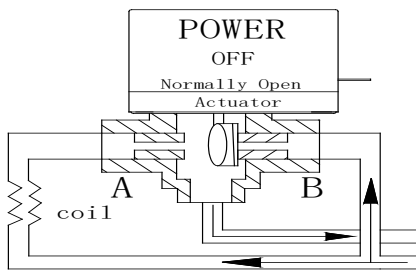


Fig. 3: 3-way valve in Mixing Configuration, Normally Open to coil

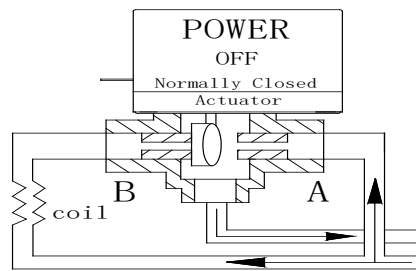


Fig. 4: 3-way valve in Mixing Configuration, Normally Closed to coil

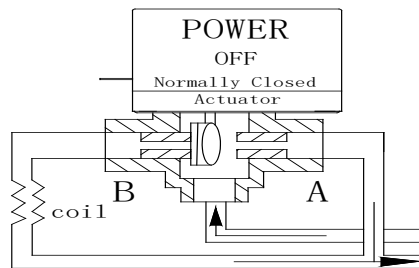


Fig. 5: 3-way valve in Diverting Configuration, Normally Closed to coil

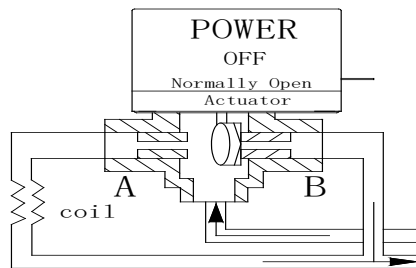


Fig. 6: 3-way valve in Diverting Configuration, Normally Open to coil

TG- serie B on/off valvola motorizzata

- Utilizzo: ventil-convettori o negli organi di controllo del riscaldamento e della refrigerazione.
- Misure disponibili: 1/2" - 3/4" - 1".
- Modelli: on/off 2-vie e 3-vie.
- Tipologia: NC, chiusura meccanica con molla di ritorno.
- Dotazione: corpo valvola 2 e 3 vie. Motorino sincron incluso (230V - 24V).
- L'attivatore della valvola (motorino sincron) può essere installato dopo il corpo valvola.

TABELLA TECNICA

Modello	Dimensione	Tipo	Kv(Cv)fattore	Chiuso-off Δ P(BAR)	Peso(g)
R05293	1/2"	Valvola 2 vie	2.2(2.5)	1.8	700
R05296	1/2"	Valvola 3 vie	2.6(3.0)	1.8	750
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R05298	1"	Valvola 3 vie	6.5(7.5)	1.4	1050

SPECIFICHE

Campo di utilizzo acqua di raffreddamento o riscaldamento

Alimentazione 230V,24V

Assorbimento di corrente 7W

Temp. di funzionamento fluidi 0 - 90° C (non-congelamento)

Temperatura di funzionamento 0 - 40°C

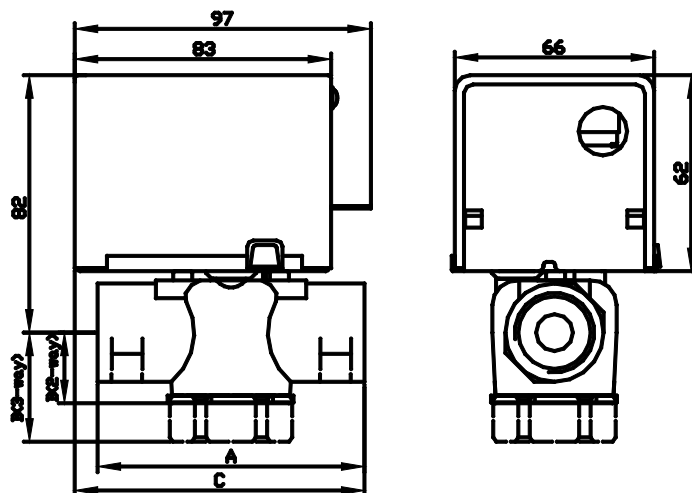
Operatività Tempo di apertura 10 a 15 Secondi

Tempo di chiusura 4 a 5 Secondi

Pressione di funzionamento 10 BAR

Materiali	Attuatore	Base d'appoggio acciaio inox
	Coperchio	Alluminio
	Corpo valvola	Ottone Forgiato
	Guarnizioni	NBR

Modello	DIMENSIONI(mm)		
	A	B	C
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TG-B COLLEGAMENTI E APPLICAZIONI TIPO

Queste valvole devono essere montate in modo che la paletta si chiuda contro il senso di flusso dell'acqua (vedi fig.1). Quando si installa la valvola in modalità NC, l'attuatore deve essere posto manualmente nella posizione aperta, usando l'apposita leva. Una volta che la valvola sarà attivata elettricamente, la leva di manovra si posizionerà automaticamente in modalità di lavoro.

Le valvole **TG-B** sono progettate per l'applicazione nei sistemi idrici a circuito chiuso di raffreddamento e riscaldamento. Non è raccomandato l'uso nei sistemi aperti che prevedono considerevoli quantità di acqua a contatto con l'aria. L'elevato livello di ossigeno e cloro disciolti nell'acqua dei sistemi aperti possono essere causa di rotture o malfunzionamenti. Nell'utilizzo con acqua refrigerata si consiglia di installare sotto la valvola un vassoio raccogli condensa.

ACTUATOR WIRING

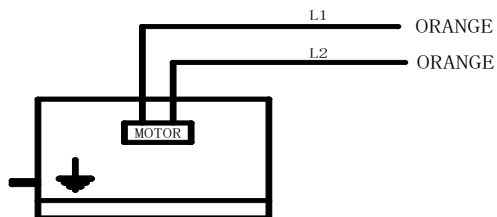


Fig. 9: Wiring with no Auxiliary Switch

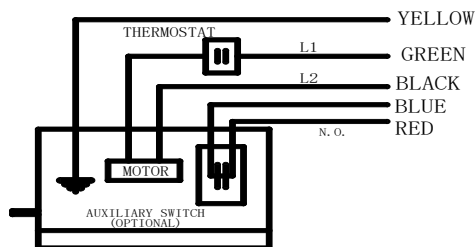


Fig. 10: Wiring with Auxiliary Switch

SW-B BODY CONFIGURATION

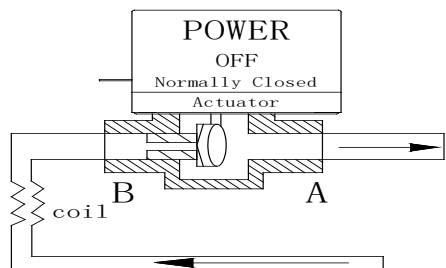


Fig. 1: 2-way Normally Closed to the Coil

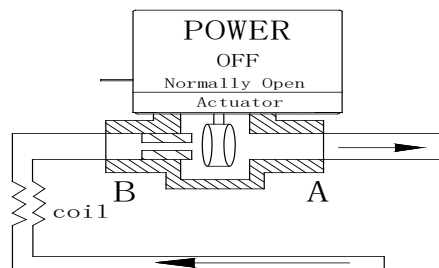


Fig. 2: 2-way Normally Open to the Coil

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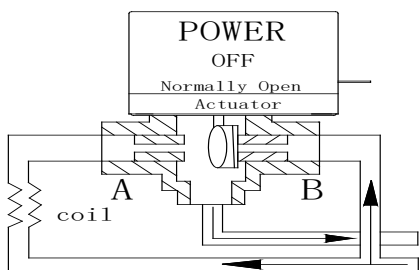


Fig. 3: 3-way valve in Mixing Configuration, Normally Open to coil

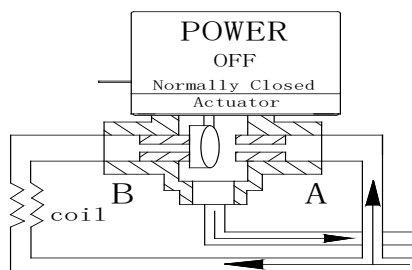


Fig. 4: 3-way valve in Mixing Configuration, Normally Closed to coil

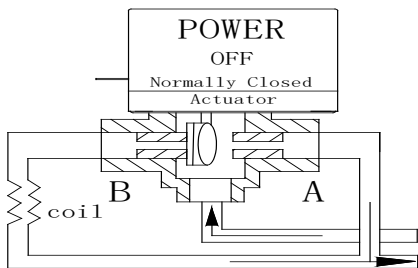


Fig. 5: 3-way valve in Diverting Configuration, Normally Closed to coil

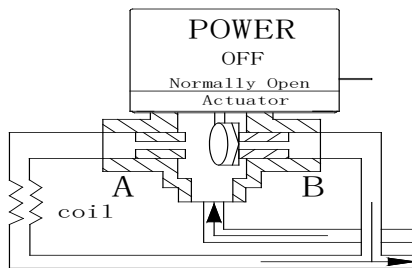


Fig. 6: 3-way valve in Diverting Configuration, Normally Open to coil