

**HIGHLIGHT**

- 2/2 way servo controlled
- 0,1 – 10 bar
- Compact design
- Hydraulic body valve in PA66 GF30%
- Latching version also available with cable connector

PRODUCT DESCRIPTION

The new CEME Solenoid Valve for water management market is a 2/2 way servo controlled valve with Ø11mm. The main application is sanitary market, different power supply available. Thanks to the flow rate optimization, the Ø11mm can meet all the sanitary market requirements. While designing the valve, our efforts and attention were focused on the water hammer: the test results rate this valve at the top level. The hydraulic and mechanical concept has been developed considering long terms of performances and durability.

DESCRIZIONE PRODOTTO

La nuova elettrovalvola CEME per il mercato della gestione delle acque è una valvola servoassistita a 2/2 vie con DN11mm. L'applicazione principale è il mercato sanitario ed è disponibile con bobine di diverse potenze e tensioni. Grazie all'ottimizzazione della portata, il DN11mm è in grado di soddisfare tutti i requisiti del mercato sanitario. Mentre progettavamo la valvola, i nostri sforzi e la nostra attenzione erano focalizzati sul colpo d'ariete: i risultati del test valutano questa valvola al livello più alto. Il concetto idraulico e meccanico è stato sviluppato considerando l'impiego per lunghi periodi e il mantenimento delle prestazioni inalterate.



Water Management



Beverage

GENERAL FEATURES / CARATTERISTICHE GENERALI

Long life material / Materiale di lunga durata

External filter replaceable / Filtro esterno sostituibile

Very compact design / Design molto compatto

Low power consumption / Basso assorbimento

Servo controlled / Servo comandate

100% tested with water and air / Testato 100 % con acqua e aria

IP grade: IPX0 / Grado IP : IPX0

Suitable for chemical disinfection (Chloramine) as well as thermal disinfection
Adatto per la disinfezione chimica (Clorammina) così come la disinfezione termica**MATERIALS / MATERIALI**

Body material / Materiale corpo	PA 66 GF 30%
EPDM or LSR / guarnizione EPDM o LSR	All the seals are in EPDM or LSR Tutte le guarnizioni sono in EPDM o LSR
Spring / Molle	Stainless steel
Material approvals / Certificazioni materiale	KTW, ACS, NSF, WRAS

WORKING CHARACTERISTICS / CARATTERISTICHE DI LAVORO

Working pressure / Pressione di lavoro	0.1 ÷ 10 bar
Pressure burst / Pressione di scoppio	According to EN60730 / Secondo EN60730
Water Hammer / Colpo d'ariete	According to EN60730 / Secondo EN60730
Flow direction / Direzione del flusso	Unidirectional / Unidirezionale
Valve position / Posizione della valvola	Any position / Qualsiasi posizione
Working fluid / Fluido di lavoro	Tap water / Acqua di rubinetto
Insulation class / Classe di isolamento	H according with EN 60730 / H secondo la norma EN 60730
Fluid Temp / Temperatura fluido	5° ÷ 65°C (41° ÷ 150° F)
Ambient Temp / Temperatura ambiente	5° ÷ 65°C (41° ÷ 150° F)

WATER VALVE

WATER SERIES SOLENOID VALVE

Elettrovalvola serie Water



ELECTRICAL SPECIFICATIONS / SPECIFICHE ELETTRICHE

Electrical Connection / Connessione elettrica	Faston 6,3x0,8 / Faston terminal UNI ISO 6952						
Coil power / Potenza solenoide	4,2VA / 8,2W	5,5W	6,5VA	8,2VA	7VA	6.5W	7.5VA
Operating Voltage / Tensione di funzionamento	12Vac/dc	12Vdc	220/240V	230V	24Vac	24Vdc	110/120V
ED	100%						

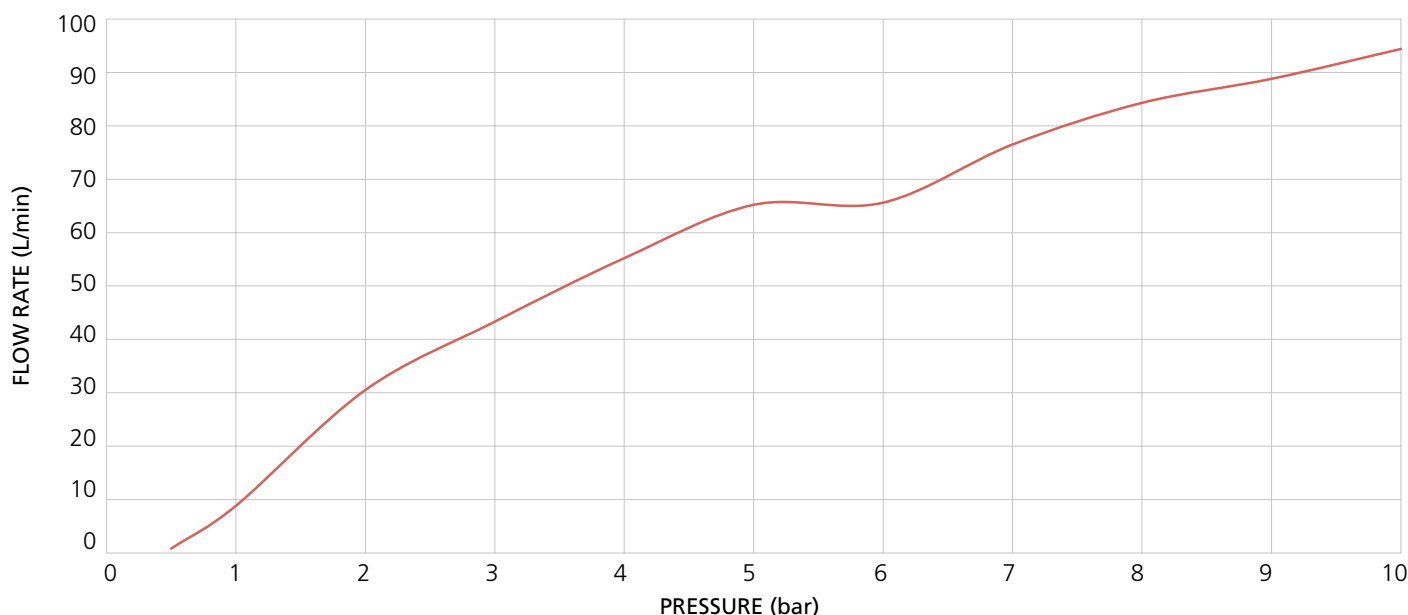
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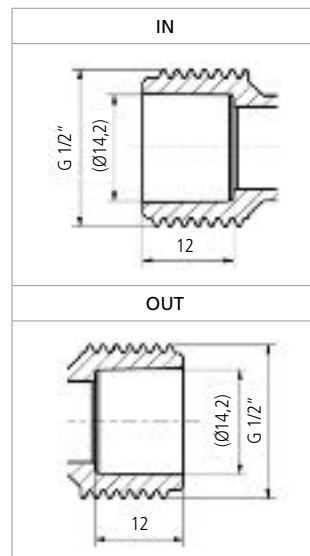
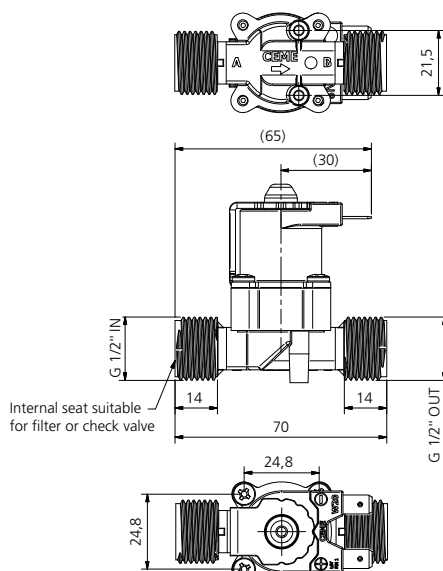
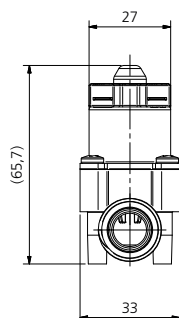
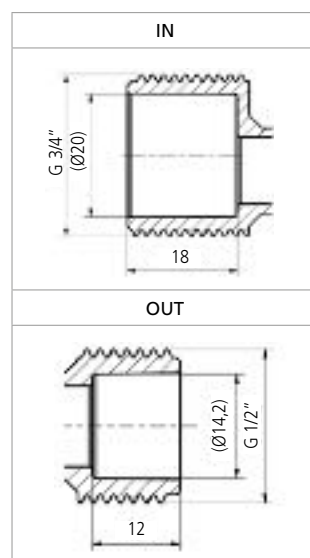
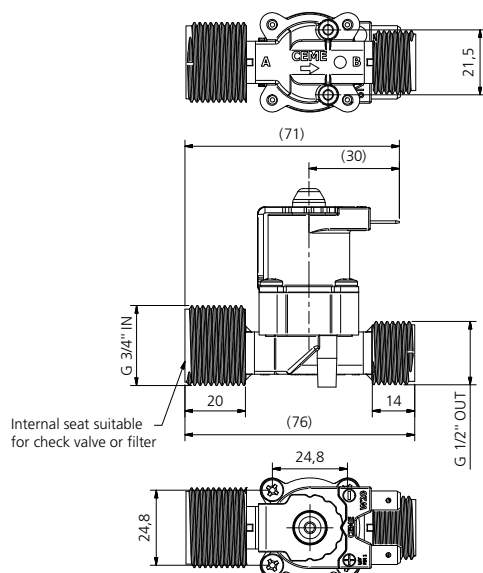
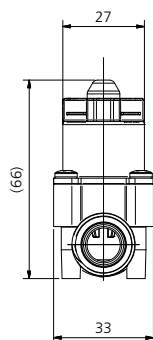
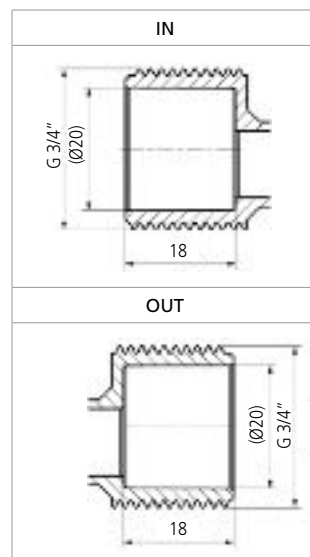
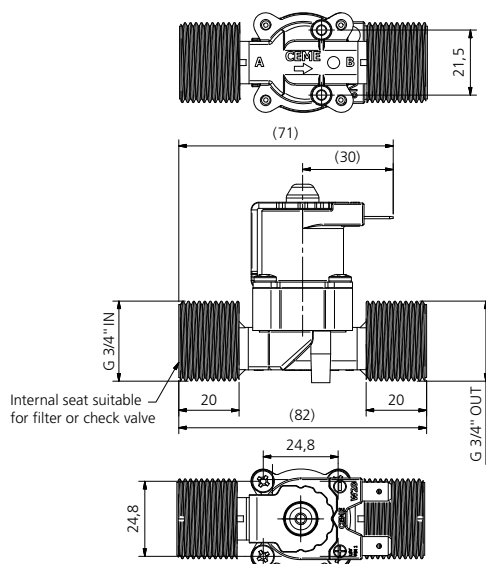
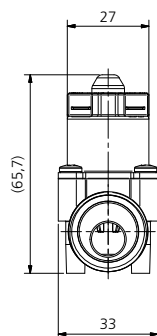
Electrical Connection / Connessione elettrica	Faston (cable with connector upon request) / Faston (cavo con connettore a richiesta)
Coil power / Potenza solenoide	2,25W (6V)
Operating Voltage / Tensione di funzionamento	6V (5Vmin) at 20° C
Max Voltage supply / Tensione massima	12V
Nominal Current / Corrente nominale	375 mA (at 6V 25°C)
Pulse time / Tempo di impulso	Close min 15ms / Open min 15ms

SPECIFICATIONS / CARATTERISTICHE

CONNECTION	ORIFICE Ø (mm)	Pressure (bar)		Filter
		Min	Max	
G 3/4" - PF Ø6mm	11	0,1	10	✓
G 3/4" - PF Ø8mm	11	0,1	10	✓
G 3/4" - PF Ø10mm	11	0,1	10	✓
G 3/4" - PF Ø1/4"	11	0,1	10	✓
G 1/2" - G 1/2"	11	0,1	10	✓
G 3/4" - G 1/2"	11	0,1	10	✓
G 3/4" - G 3/4"	11	0,1	10	✓
G 3/4" - G 3/8"	11	0,1	10	✓
G 3/8" - G 3/8"	11	0,1	10	/
G 3/4" - G 1/2" 90°	11	0,1	10	✓
G 1/2" - G 1/2" 90°	11	0,1	10	✓
PF Ø6mm - PF Ø6mm	11	0,1	10	/
PF Ø8mm - PF Ø8mm	11	0,1	10	/
PF Ø10mm - PF Ø10mm	11	0,1	10	/
PF Ø1/4" - PF Ø1/4"	11	0,1	10	/
PF Ø3/8" - PF Ø3/8"	11	0,1	10	/

HYDRAULIC CHARACTERISTICS / CARATTERISTICHE IDRAULICHE



SERIES WBB - 1/2" M - 1/2" M

SERIES WAB - 3/4" M - 1/2" M

SERIES WAA - 3/4" M - 3/4" M


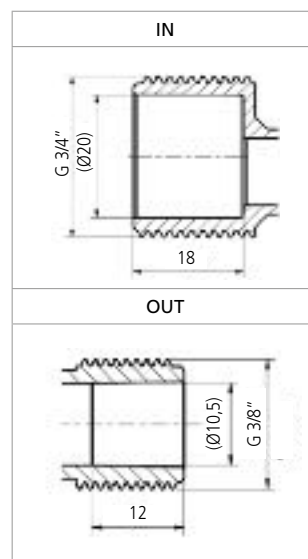
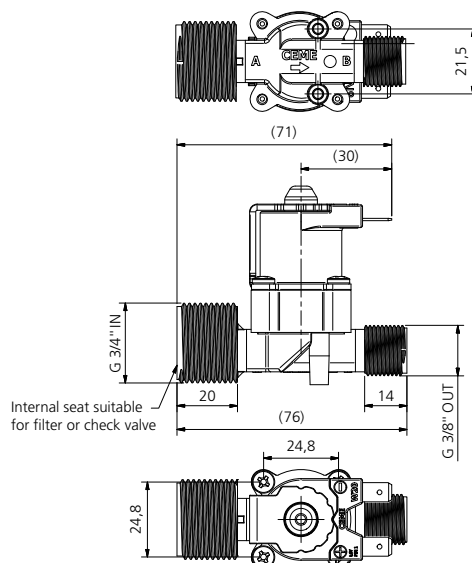
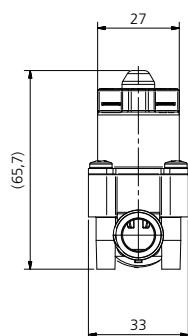
WATER VALVE

WATER SERIES SOLENOID VALVE

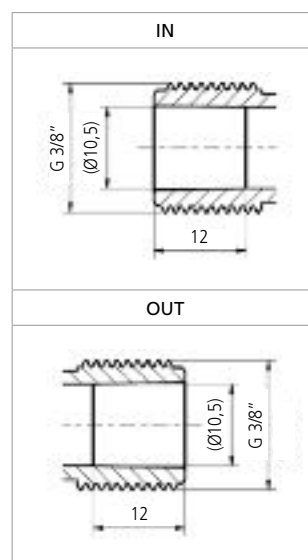
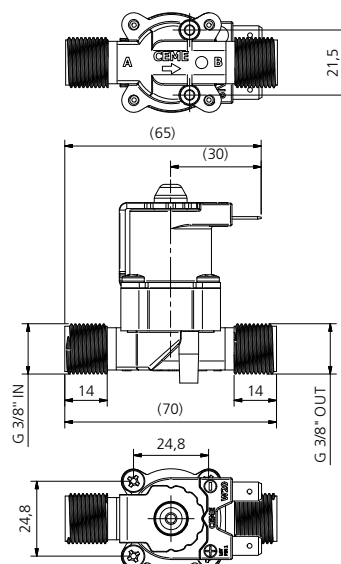
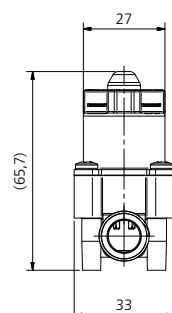
Elettrovalvola serie Water



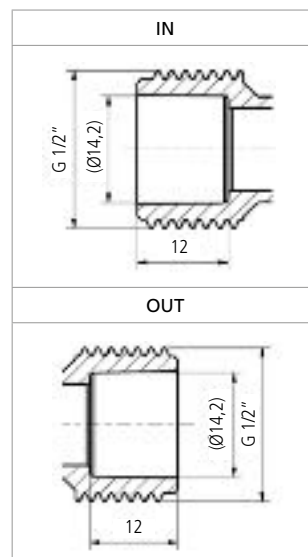
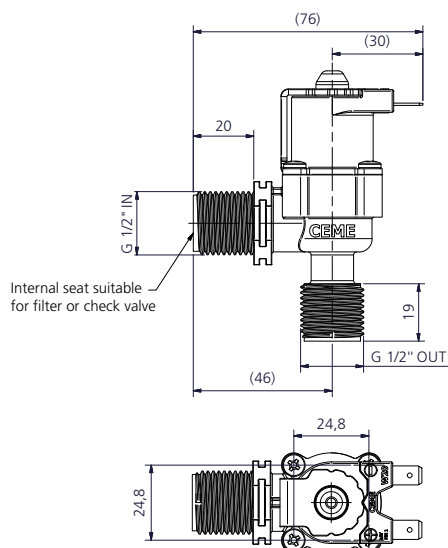
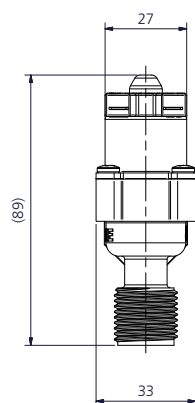
SERIES WAC - 3/4"M - 3/8"M

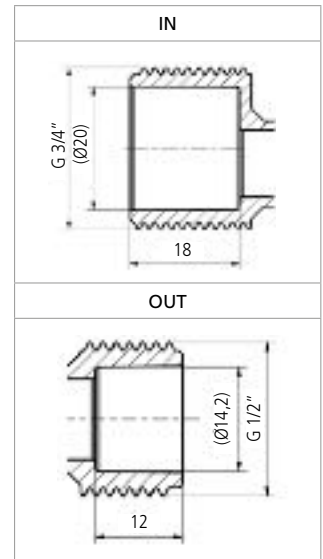
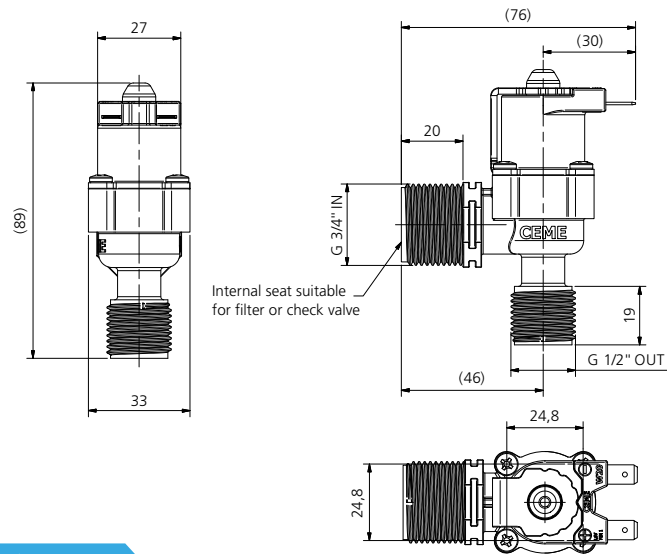
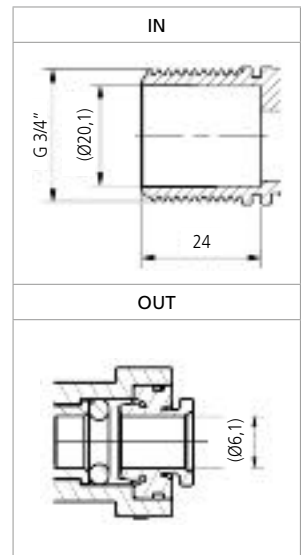
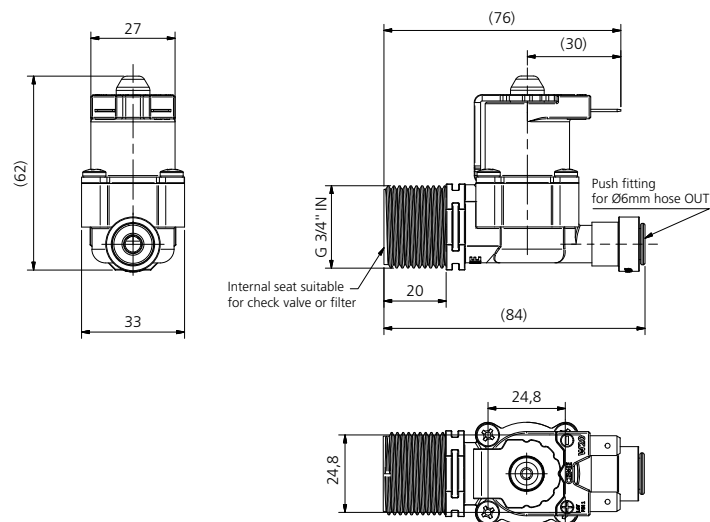
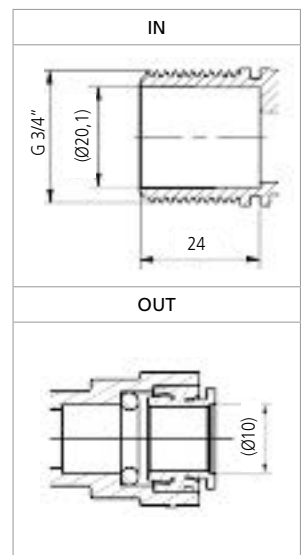
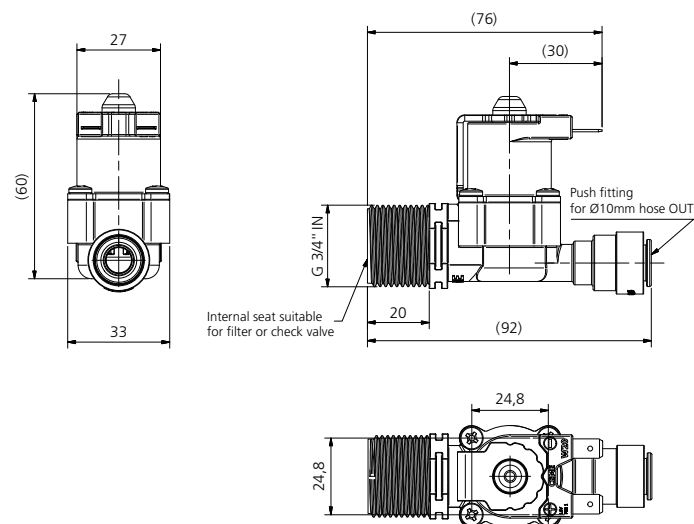


SERIES WCC - 3/8"M - 3/8"M



SERIES WFF - 1/2"M - 1/2"M 90°

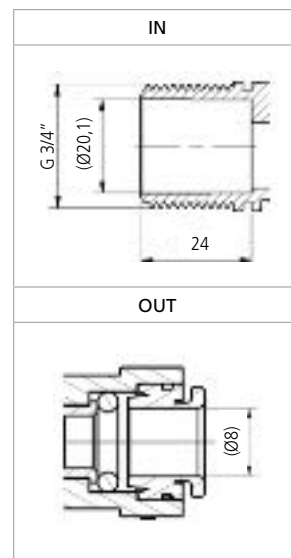
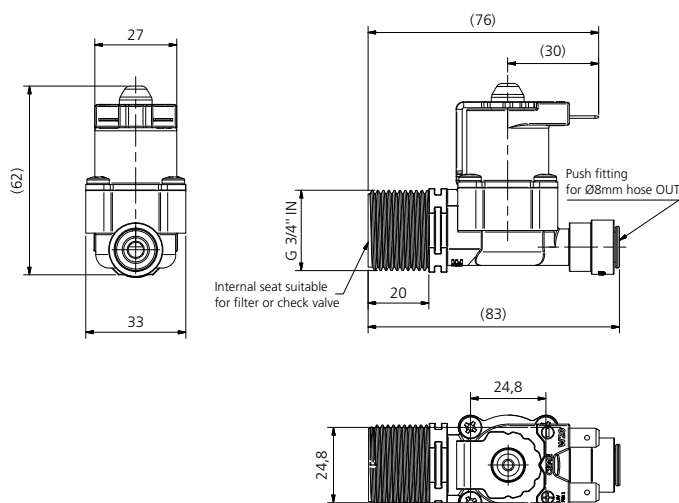


SERIES WGF - 3/4" M - 1/2" M 90°

SERIES W22 - 3/4" M / PFØ6mm

SERIES W23 - 3/4" M / PFØ10mm


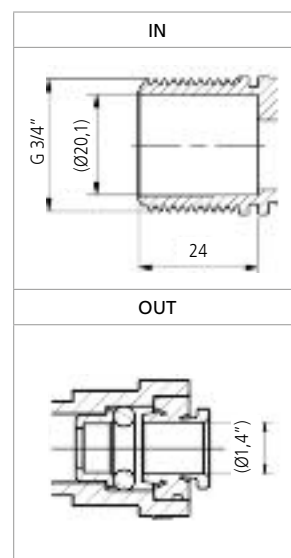
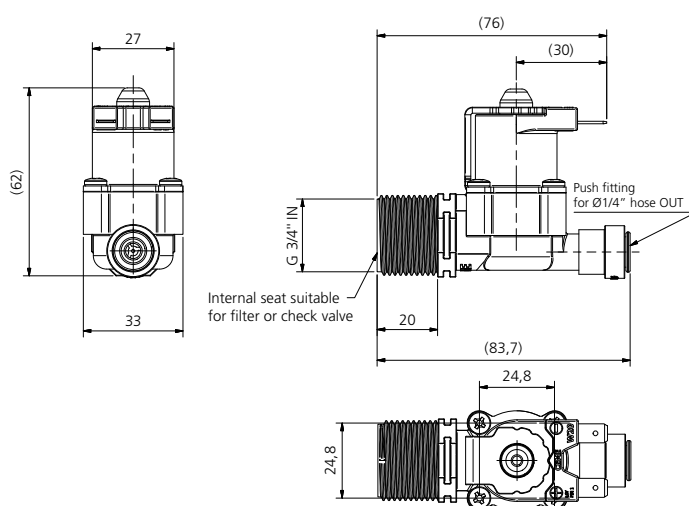
WATER VALVE
WATER SERIES SOLENOID VALVE
Elettrovalvola serie Water



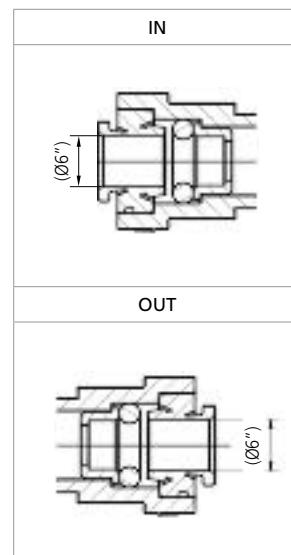
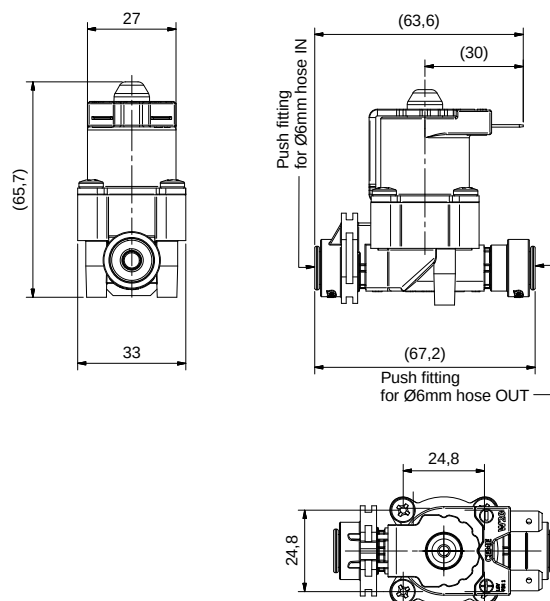
SERIES W24 - 3/4" M / PFØ8mm

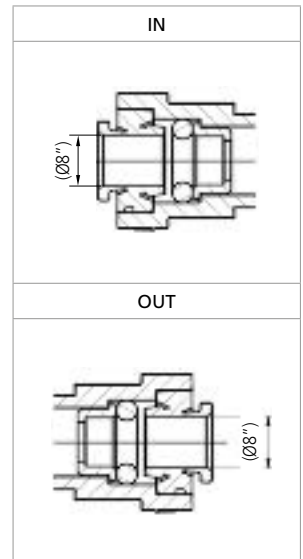
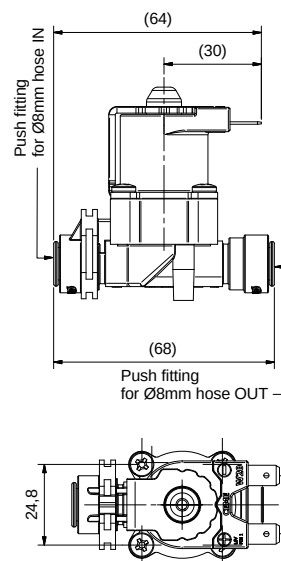
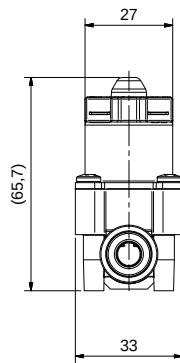
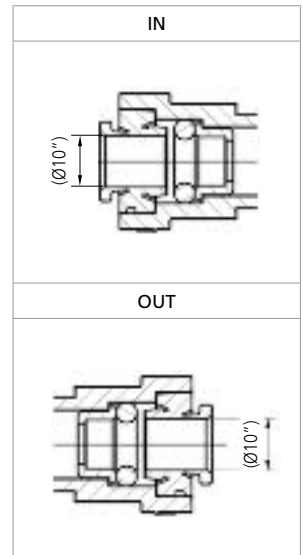
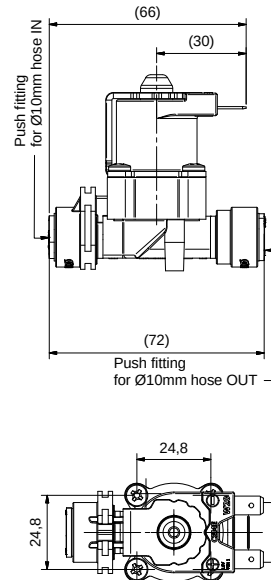
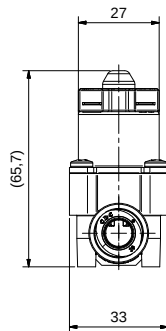
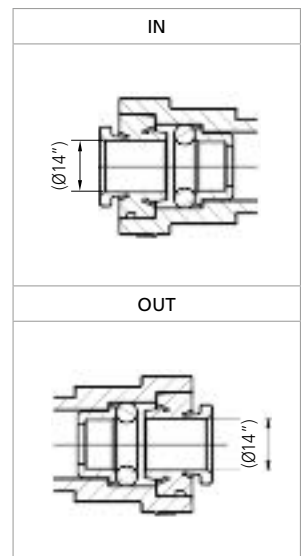
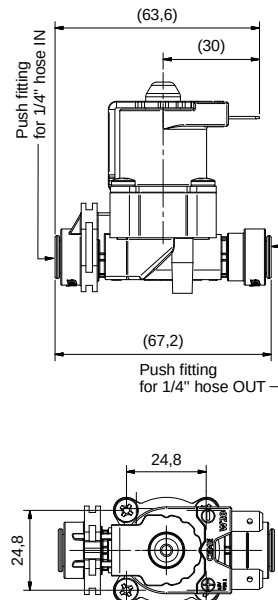
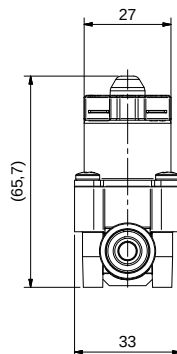


SERIES W27 - 3/4" M / PFØ1/4"



SERIES WLL - PFØ6MM / PFØ6MM



SERIES WMM - PFØ8MM / PFØ8MM

SERIES WNN - PFØ10MM / PFØ10MM

SERIES WPP - PFØ1/4" / PFØ1/4"


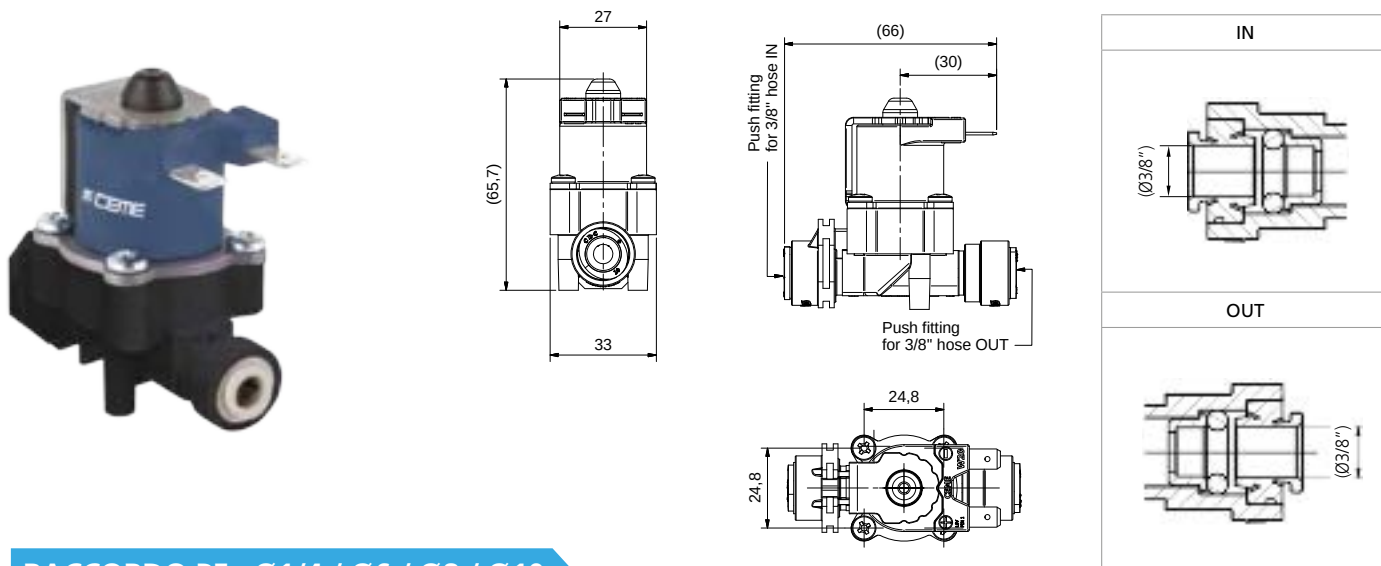
WATER VALVE

WATER SERIES SOLENOID VALVE

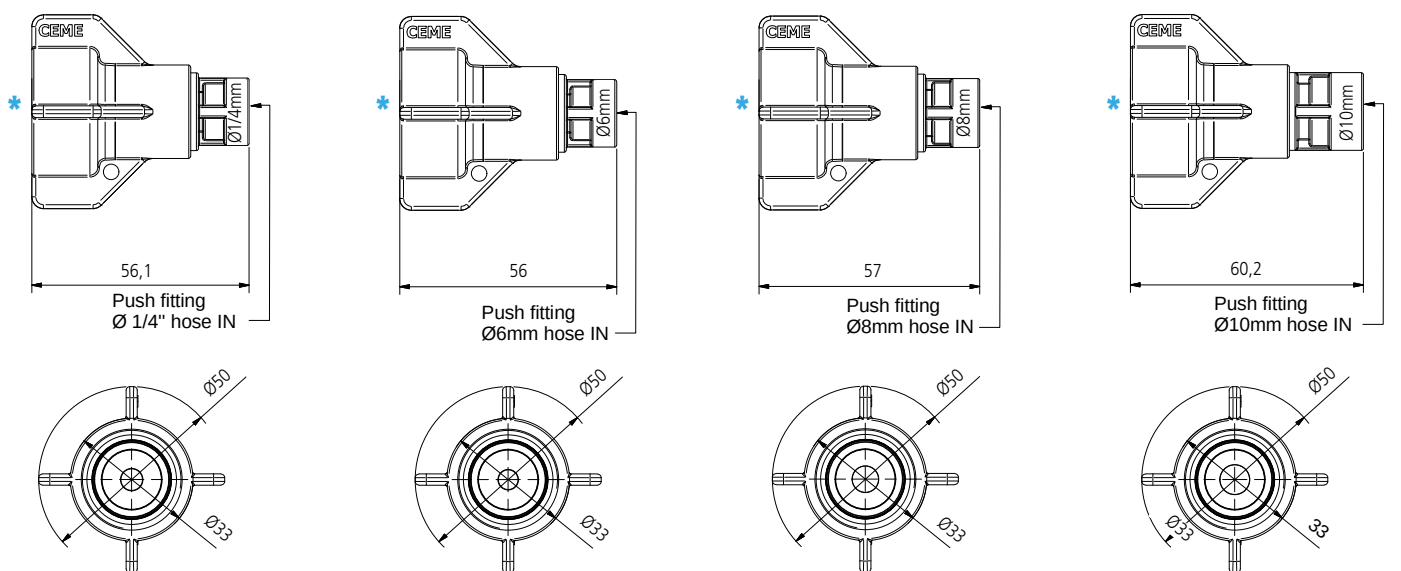
Elettrovalvola serie Water



SERIES WRR - PF03/8" / PF03/8"

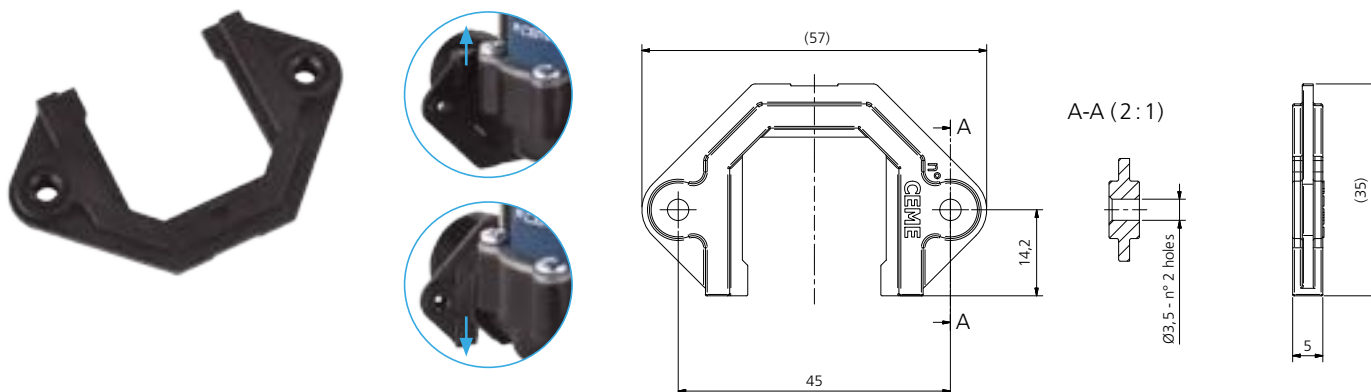


RACCORDO PF - Ø1/4 / Ø6 / Ø8 / Ø10



* G 3/4" female OUT
Internal seat suitable for check valve or filter

MOUNTING BRACKET (accessory / optional)



The mounting bracket can be supplied upon request together with the water valve and it is suitable for the following series:
WFF - WGF - W22 - W23 - W24 - W27 - WLL - WMM - WNN - WPP - WRR



HIGHLIGHTS

- 2/2 way servo controlled
- 0,5 – 8 bar (0,5 – 10 bar upon request)
- Tap water
- Compact design
- Body valve in PPSU

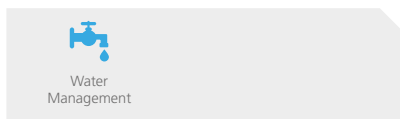
PRODUCT DESCRIPTION

The new CEME Solenoid Valve for sanitary market is a 2/2 way servo controlled valve with Ø 5 mm. The main application is electronically controlled sanitary fittings, both battery driven (latching 6V) and power supply (12V DC). Thanks to the flow rate optimization, the Ø 5 mm can meet all the sanitary taps' requirements. While designing the valve, our efforts and attention were focused on the water hammer: the test results rate this valve at the top level. The hydraulic and mechanical concept has been developed considering longterm performances, durability and battery life as priority targets. All the materials are compliant with the main regulations in drinking-water applications.

DESCRIZIONE PRODOTTO

La nuova valvola CEME per il mercato sanitario è una 2/2 vie, servo comandata, con orifizio DN 5 mm. L'applicazione principale è rubinetteria gestita elettronicamente, sia con alimentazione a batteria (latching 6V) che con alimentazione da rete (12V DC). Grazie all'ottimizzazione della portata, la DN 5 mm è in grado di soddisfare tutte le necessità applicative della rubinetteria.

Durante la progettazione, i nostri sforzi si sono concentrati sul colpo di ariete: i risultati dei test posizionano questa valvola ai più alti livelli di mercato. L'idraulica e la meccanica della valvola sono stati sviluppati considerando come esigenze primarie la garanzia di alte prestazioni, la resistenza nel tempo della valvola e infine un basso consumo delle batterie di alimentazione. Tutti i materiali sono in accordo con le principali normative in materia di acqua potabile.



GENERAL FEATURES / CARATTERISTICHE GENERALI

Long life material / Materiale di lunga durata

Interchangeable plastic filter / Filtro in plastica intercambiabile

Very compact design / Design molto compatto

Low power consumption / Basso consumo energetico

Servo controlled / Servo comandato

100% tested with water and air / Testato 100 % con acqua e aria

IP grade: IP65 / Grado IP: IP65

Suitable for chemical disinfection (Chloramine) as well as thermal disinfection
Adatto per la disinfezione chimica (Chloramine), e per la disinfezione termica

MATERIALS / MATERIALI

Body material / Materiale corpo	PPSU - R5100
LSR Seals / Guarnizione LSR	All the seals are in Liquid silicon rubber / Tutte le guarnizioni sono in Gomma siliconica liquida
Other / Altro	Stainless steel (spring and plunger) / In acciaio inox (molla e pistone)
Material approvals / Certificazioni materiale	FDA, DM174, ACS, NSF, WRAS, DVGW

SANITARY

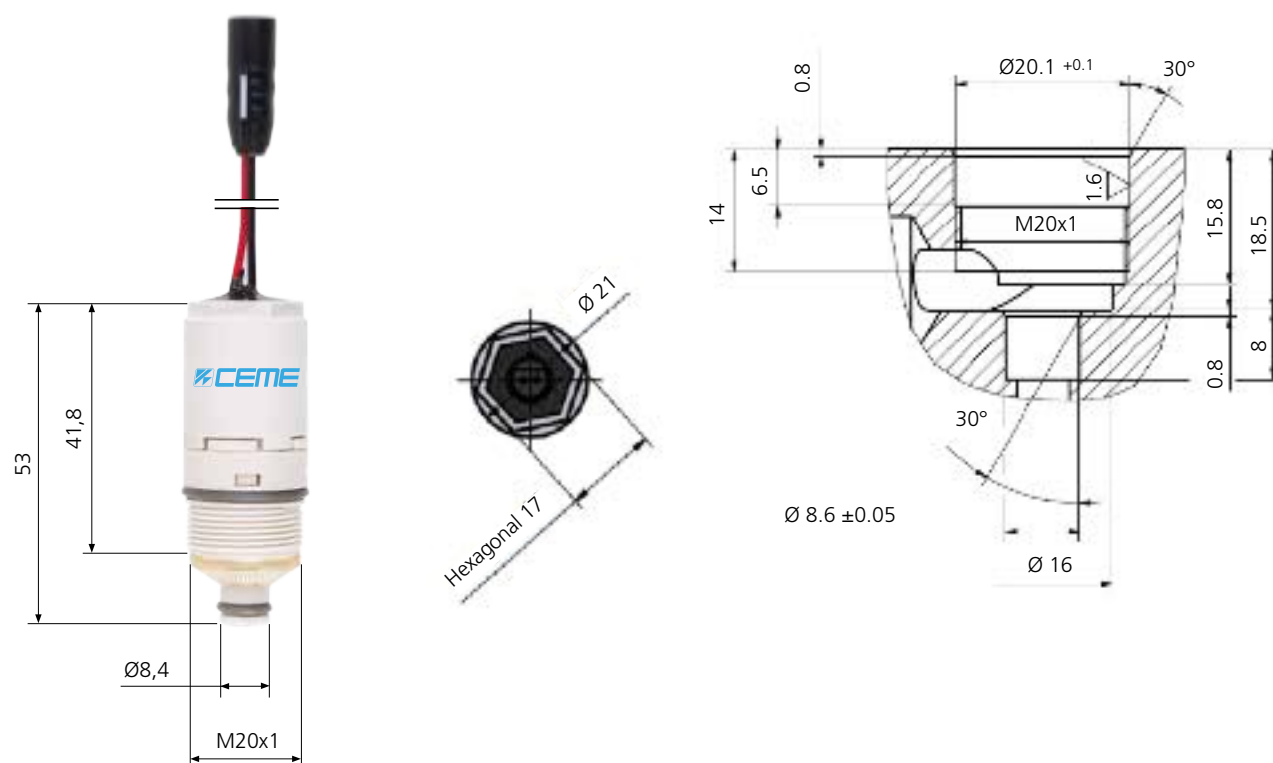
LATCHING SOLENOID VALVE FOR SANITARY APPLICATIONS

Elettrovalvola latching per sanitari

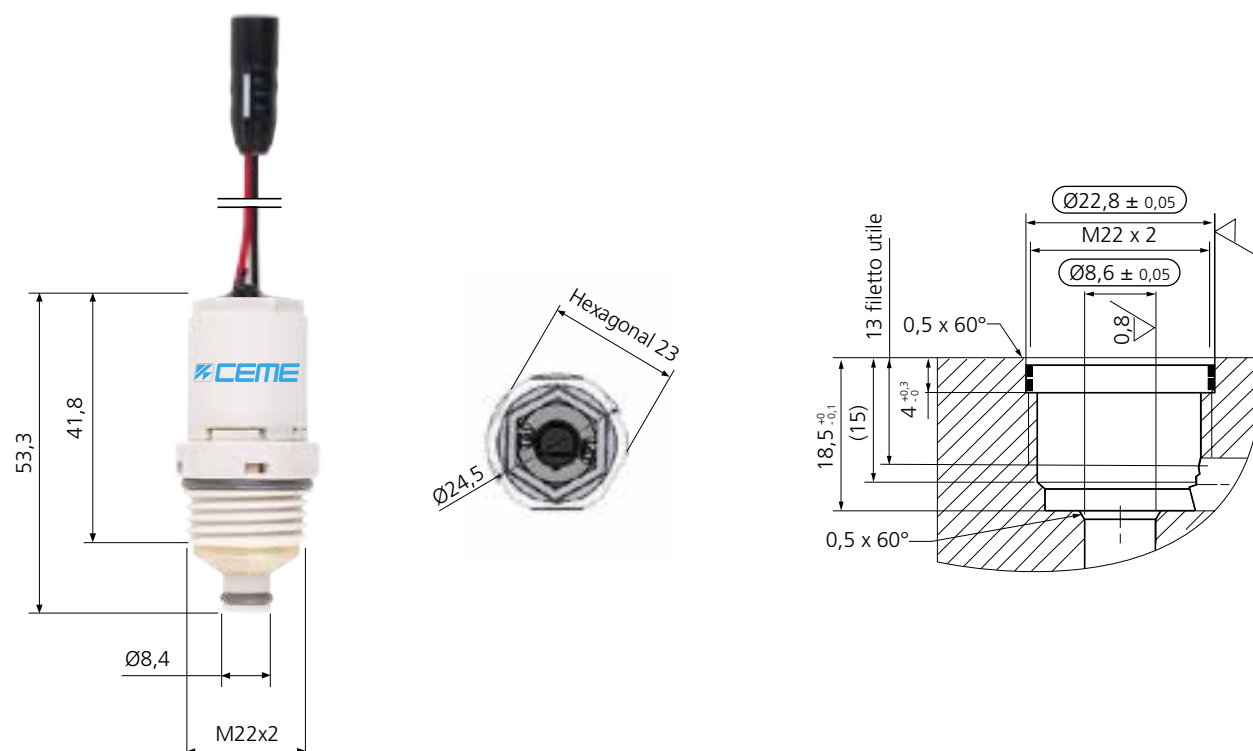


SANITARY

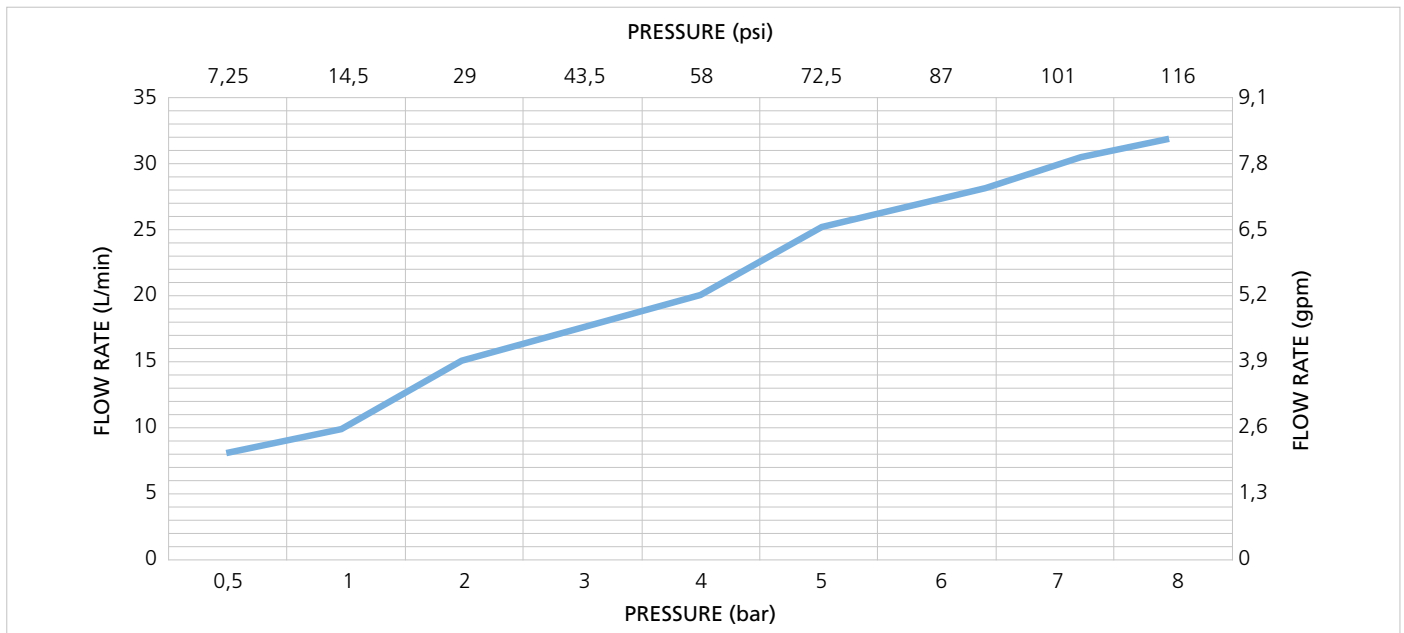
L400 M20X1



L500 M22X2



HYDRAULIC CHARACTERISTIC / CARATTERISTICHE IDRAULICHE



WORKING CHARACTERISTICS / CARATTERISTICHE DI LAVORO

Working pressure / <i>Pressione di lavoro</i>	0,5 ÷ 8,0 bar (7,25 ÷ 116 PSI)
Pressure burst / <i>Pressione di scoppio</i>	According to EN60730 / <i>Secondo EN60730</i>
Water Hammer / <i>Colpo d'ariete</i>	According to EN60730 / <i>Secondo EN60730</i>
Flow direction / <i>Direzione del flusso</i>	Unidirectional / <i>Unidirezionale</i>
Valve position / <i>Posizione della valvola</i>	Any position / <i>Qualsiasi posizione</i>
Working fluid / <i>Fluido di lavoro</i>	Tap water / <i>Acqua di rubinetto</i>
Power Supply / Absorption / Pulse <i>Alimentazione / Assorbimento / Impulso</i>	6V 1W 170mA Latching solenoid (impulse 15ms minimum) <i>Elettrovalvola bistabile 6V 1W 170mA (impulso 15ms minimo)</i>
Insulation class / <i>Classe di isolamento</i>	H according with EN60730 / <i>H secondo la norma EN60730</i>
Fluid Temp / <i>Temperatura fluido</i>	5° ÷ 95°C (41° ÷ 203° F)
Ambient Temp / <i>Temperatura ambiente</i>	5° ÷ 95°C (41° ÷ 203° F)

SANITARY

LATCHING SOLENOID VALVE FOR SANITARY APPLICATIONS

Elettrovalvola latching per sanitari

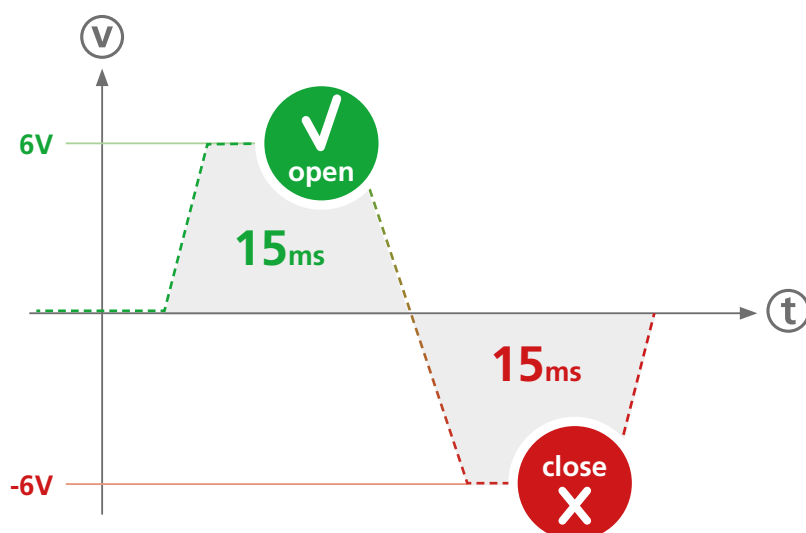


ELECTRICAL SPECIFICATIONS MONOSTABLE / SPECIFICHE ELETTRICHE MONOSTABILE

Electrical connections / Connessione elettrica	Cable (KCC connector upon request) / Cavo (connettore KCC su richiesta)
Coil power / Potenza solenoide	1,5W (12V DC)
Operating voltage / Tensione di funzionamento	(12V DC) at 20°
Nominal Current / Corrente nominale	125 mA (12V DC)
ED	100%

ELECTRICAL SPECIFICATIONS LATCHING / SPECIFICHE TECNICHE LATCHING

Electrical Connection / Connessione elettrica	Cable (KCC connector upon request) / Cavo (connettore KCC su richiesta)
Coil power / Potenza solenoide	1W (6V)
Operating Voltage / Tensione di funzionamento	6V (5Vmin) at 20° C
Max Voltage supply / Fornitura Max Voltage	8V
Nominal Current / Corrente nominale	170 mA (at 6V 25°C)
Pulse time / Tempo di impulso	Close min 15ms / Open min 15ms



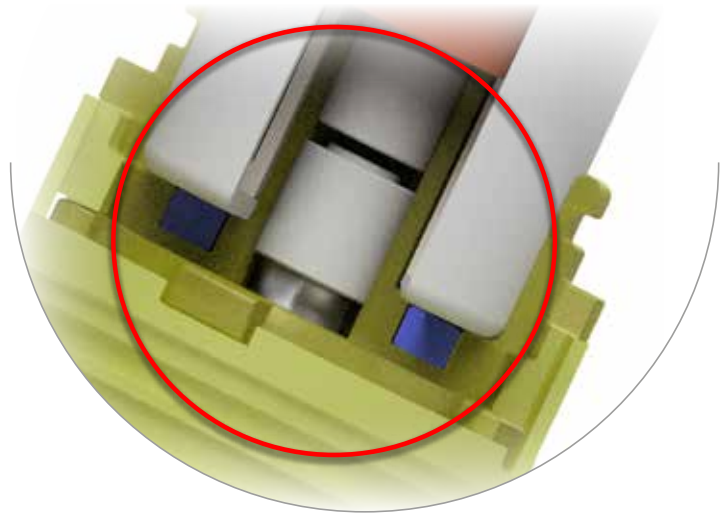
HIGHLIGHTS

The floating core system represents a unique and innovative solution in this range of valves.

Ceme R&D has concentrated his efforts to design the "springless floating system".

This solution offers several advantages:

- Reduction of power consumption
- Faster response
- No core sticking (a very common issue with standard sanitary valves)
- Removal of a critical component.
Commonly when the core spring is damaged, the valve can remain open, wasting water from the faucet.



The diaphragm of this valve is a concentrate of innovation, an ambitious project that today brings many improvements if compared to standard products:

- Labyrinth Calibrated System:
The water flows through a sophisticated system of micro channels, designed to minimize the water hammer and to allow a quick and progressive closing.
- Self-cleaning:
The diaphragm has holes for the water load.
This system prevents any type of blockage due to dirt. The regular up-and-down movement of the membrane causes also a stretch deformation of the holes, keeping the passage constantly clean. This simple and smart system does not need any needle to clean the holes, unlike many other standard valves in this market.



HIGHLIGHTS

Ceme has selected one single material for all the valve seals, LSR (Liquid Silicon Rubber), instead of other common elastomers, such as EPDM.

LSR can grant far better performances:

- Fully food grade approved. LSR is also in compliance with the incoming restrictions concerning rubbers, which will involve and forbid many of the common rubbers
- Fully compatible with chloramine even in high concentration
- Fully compatible with the most common chemical agents used for disinfection
- No ageing/degradation effects - LSR assures a very long life



The body of the valve and all the internal mechanical parts are made of PPSU, one of the top high resistance plastic materials (generally common valves are made of PA66 or POM).

Also in this case, Ceme has selected this high quality material to grant the best performances:

- The high mechanical resistance rates this valve at the top level for burst pressure
- Thermal disinfection: PPSU allows the fluid compatibility at 95°C (203°F) in compliance with the most severe disinfection cycle, while the plastic materials of the common valves mentioned above, allow a max fluid temperature of 65°C (150°F), or a higher temperature just for a limited time.
- Best compatibility with food grade approvals
- Best compatibility with chemical agents
- Longer life time resistance