

SANITARY WATER MANAGEMENT

Portfolio

ENGLISH EDITION

cemegroup.com

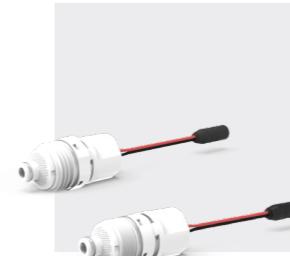


SANITARY WATER MANAGEMENT

CEME Group introduces its wide range of components dedicated to sanitary market.

These products have been designed with the aim of bringing innovative solutions and high-quality components.

CEME has always developed products in compliance with the most relevant regulations related to the main sanitary applications, such as electronic taps and the washing system.



CARTRIDGE SOLENOID VALVES



SOLENOID PILOTS

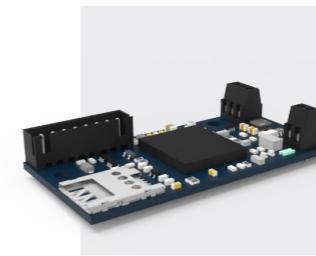
Direct and servocontrolled



SOLENOID VALVES

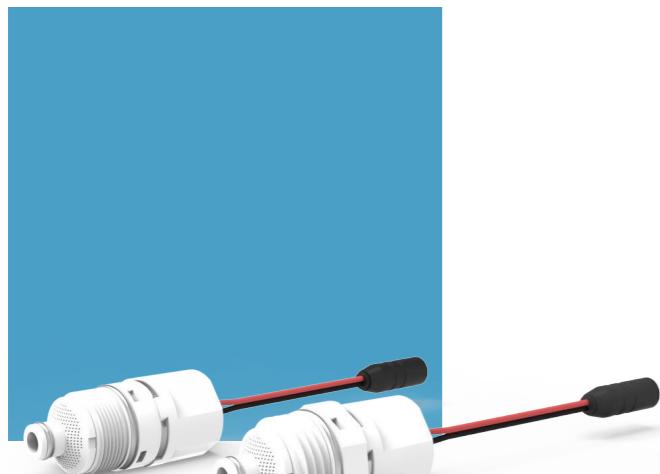


PROPORTIONAL VALVES



ELECTRONIC DEVICES

CARTRIDGE SOLENOID VALVES

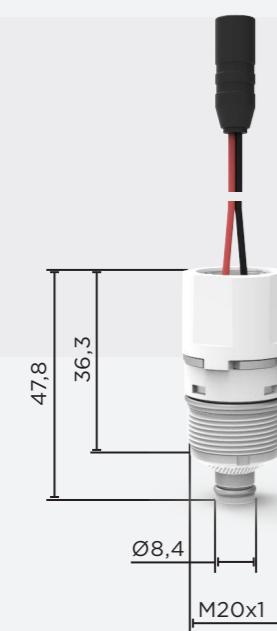


GENERAL FEATURES

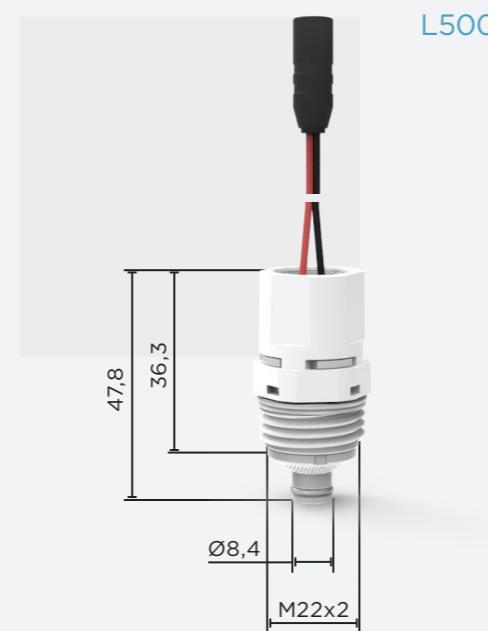
- Long life material
- Interchangeable plastic filter
- Very compact design
- Low power consumption
- Servo controlled
- 100% tested with water and air
- IP grade: IP65
- Suitable for chemical disinfection (Chloramine) as well as thermal disinfection

MATERIALS

PLASTIC MATERIAL	PPSU - R5100
SEAL MATERIAL	All the seals are in Liquid silicon rubber
OTHER MATERIAL	Stainless steel (spring and plunger)
MATERIAL APPROVALS	FDA, DM174, ACS, NSF, WRAS, DVGW
APPROVALS	ACS, NSF, WRAS, CE



L400



L500

WORKING CHARACTERISTICS

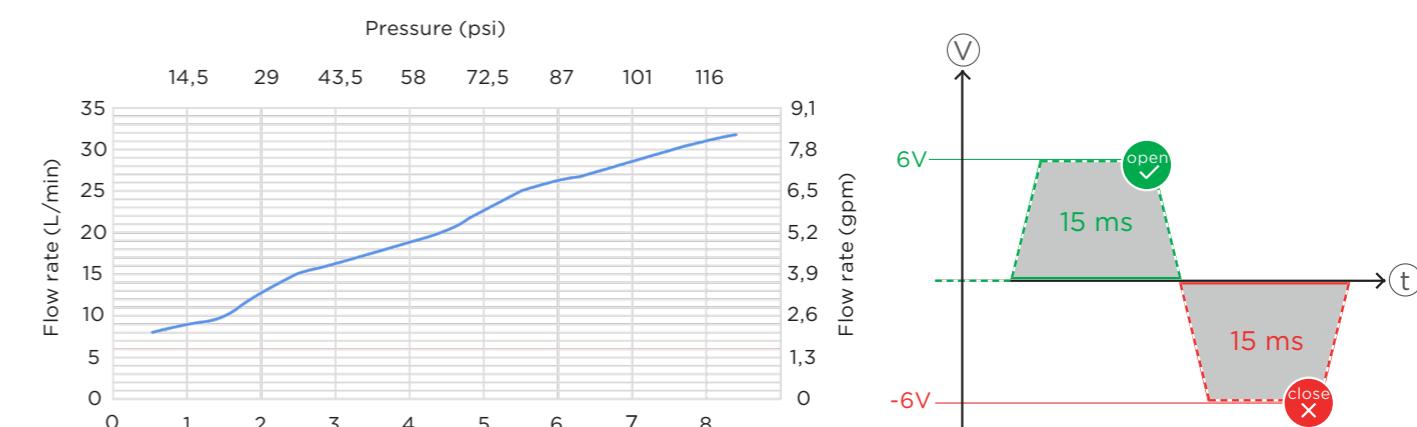
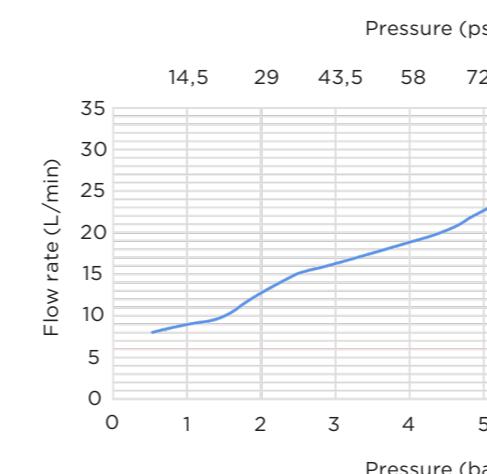
WORKING PRESSURE	0,5 ÷ 10,0 bar (7,25 ÷ 145 PSI)
PRESSURE BURST	According to EN60730
WATER HAMMER	According to EN60730
FLOW DIRECTION	Unidirectional
VALVE POSITION	Any position
WORKING FLUID	Tap water
POWER SUPPLY ABSORPTION PULSE	6V 1W 170mA Latching solenoid (impulse 15ms minimum)
INSULATION CLASS	H according with EN 60730
FLUID TEMP	5° ÷ 95°C (41° ÷ 203°F)
AMBIENT TEMP	5° ÷ 95°C (41° ÷ 203°F)

ELECTRICAL SPECIFICATIONS MONOSTABLE

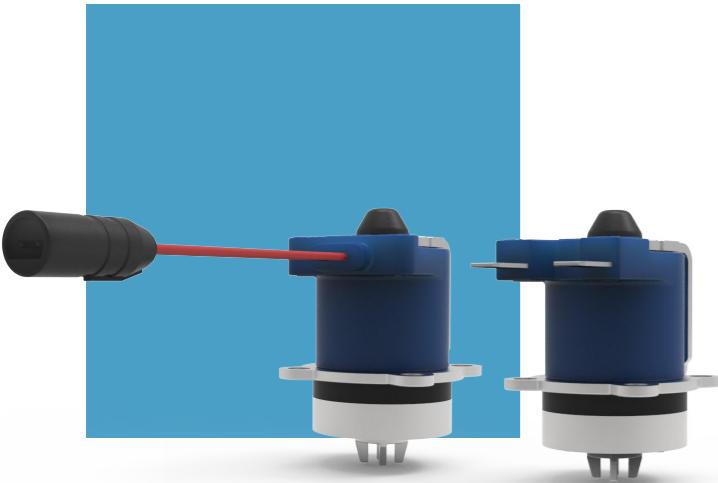
ELECTRICAL CONNECTION	Cable (KCC connector upon request)
COIL POWER	1,5W (12V DC)
OPERATING VOLTAGE	(12V DC) at 20°
NOMINAL CURRENT	125 mA (12V DC)
ED	100%

ELECTRICAL SPECIFICATIONS LATCHING

ELECTRICAL CONNECTION	Cable (KCC connector upon request)
COIL POWER	1W (6V)
OPERATING VOLTAGE	6V (5Vmin) at 20° C
MAX VOLTAGE SUPPLY	9V
NOMINAL CURRENT	170 mA (at 6V 25°C)
PULSE TIME	Close min 15ms / Open min 15ms



SOLENOID PILOTS



SERVO CONTROLLED FOR Ø 11 mm

PRODUCT DESCRIPTION

The new CEME latching Solenoid pilot is a 2/2 way servo controlled valve for Ø 11 mm. The main application is electronically controlled, battery driven sanitary. The hydraulic and mechanical concept has been developed considering long-term performances, durability and battery life as priority targets. All the materials are compliant with the main regulations in drinking-water applications.



GENERAL FEATURES

- Long life material
- Internal filter (only latching)
- Low water hammer
- Low power consumption
- Servo controlled
- 100% tested with water and air
- Suitable for chemical disinfection (Chloramine) as well as thermal disinfection

MATERIALS

PLASTIC MATERIAL	PA66 GF30%
SEAL MATERIAL	All the seals are in EPDM or LSR
OTHER MATERIAL	Stainless steel (spring and floating core)
MATERIAL APPROVALS	FDA, DM174, ACS, NSF, WRAS
APPROVALS	NSF, ACS, UL, CE, VDE

WORKING CHARACTERISTICS

WORKING PRESSURE	0,1 ÷ 10,0 bar (1,45 ÷ 145 PSI)
BURST PRESSURE	Up to 80 bar
WATER HAMMER	Low than 1.5 bar (According to EN60730)
FLOW DIRECTION	Unidirectional
VALVE POSITION	Any position
WORKING FLUID	Tap water
INSULATION CLASS	H according with EN 60730
FLUID TEMP	2° ÷ 65°C (35,6° ÷ 149° F)
AMBIENT TEMP	2° ÷ 65°C (35,6° ÷ 149° F)

ELECTRICAL SPECIFICATIONS MONOSTABLE

ELECTRICAL CONNECTION	Faston 6,3x0,8 / Faston terminal UNI ISO 6952						
COIL POWER	4,2VA 8,2W	5,5W	6,5VA	8,2VA	7VA	6,5W	7,5VA
OPERATING VOLTAGE	12Vac/dc	12Vdc	220/240V	230V	24Vac	24Vdc	110/120V
ED							100%

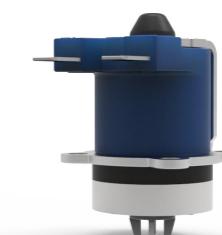
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ELECTRICAL CONNECTIONS:

IP 65 CONNECTIONS



FAST ON CONNECTIONS

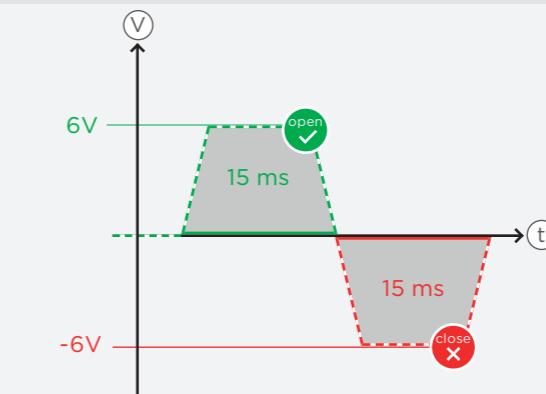


INTERNAL FILTER (LATCHING)



ELECTRICAL SPECIFICATIONS LATCHING

ELECTRICAL CONNECTION	Faston (cable with connector upon request)
COIL POWER	2,25W (6V)
OPERATING VOLTAGE	6V (5Vmin) at 20° C
MAX VOLTAGE SUPPLY	12V
NOMINAL CURRENT	375 mA (at 6V 25°C)
PULSE TIME	Close min 15ms / Open min 15ms



ELECTRICAL SPECIFICATIONS LOW POWER

ELECTRICAL CONNECTION	Faston
COIL TYPE	Applicable to DC coils
INSULATION CLASS	F
RATED VOLTAGE	See table DC coils
OPERATING VOLTAGE RANGE	Nominal voltage +/-10% / Tensione nominale +/-10%
RATED USE CONDITION	Low power: Suggested <15KHz Voltage reduced: nominal voltage 24DC 9VDC
WATERPROOF RATING	PWM Drive suggested
INSULATION RESISTANCE	100ms Maintained voltage for 12DC 4,5VDC
DIELECTRIC WITHSTAND	IPX0

The insulation resistor is 50Mff Min at DC 500V between coil and non-charge metal
It has to test between coil and outdoor metal parts at applying AC600V for 1 second (current <0.5mA)

SOLENOID PILOTS

DIRECT ACTING

PRODUCT DESCRIPTION

The new CEME latching Solenoid pilot is a 2/2 way direct action pilot for flush system. The main application is electronically controlled, battery driven sanitary. The hydraulic and mechanical concept has been developed considering long-term performances, durability and battery life as priority targets. All the materials are compliant with the main regulations in drinking-water applications.



GENERAL FEATURES

Long life material
Low power consumption
Direct action
100% tested with water and air
Suitable for chemical disinfection (Chloramine) as well as thermal disinfection

MATERIALS

MATERIAL: Stainless steel
SEAL MATERIAL: All the seals are in EPDM or LSR
OTHER MATERIAL: Stainless steel (spring and plunger)
MATERIAL APPROVALS: FDA, DM174, ACS, NSF, WRAS
APPROVALS: ACS, NSF, CE

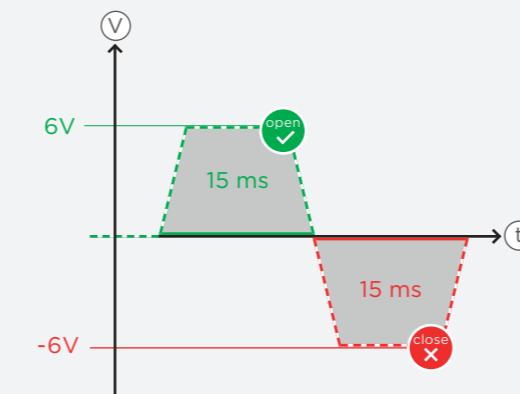
WORKING CHARACTERISTICS

WORKING PRESSURE: 0 ÷ 10,0 bar (0 ÷ 145 PSI)
PRESSURE BURST: According to EN60730
WATER HAMMER: According to EN60730
FLOW DIRECTION: Unidirectional
VALVE POSITION: Any position
WORKING FLUID: Tap water
POWER SUPPLY: 6V 2.25W 375mA (pulse 15ms minimum)
INSULATION CLASS: H according with EN 60730
FLUID TEMP: 0° ÷ 85°C (32° ÷ 185° F)
AMBIENT TEMP: 0° ÷ 85°C (32° ÷ 185° F)

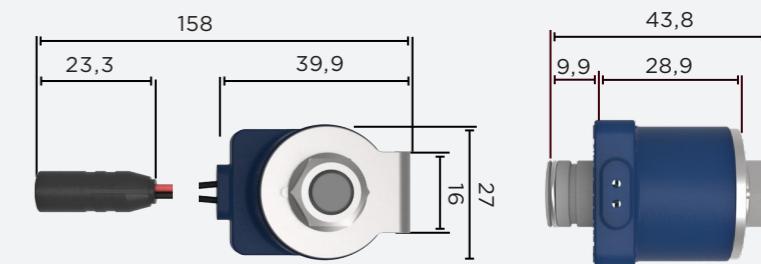
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ELECTRICAL SPECIFICATIONS LATCHING

ELECTRICAL CONNECTION: Cable with connector
NOMINAL POWER: 3.2W (6V)
OPERATING VOLTAGE: 6V (5Vmin) at 20° C
MAX VOLTAGE SUPPLY: 9V
NOMINAL CURRENT: 545 mA (at 6V 25°C)
PULSE TIME: Close min 15ms / Open min 15ms



DRAWING

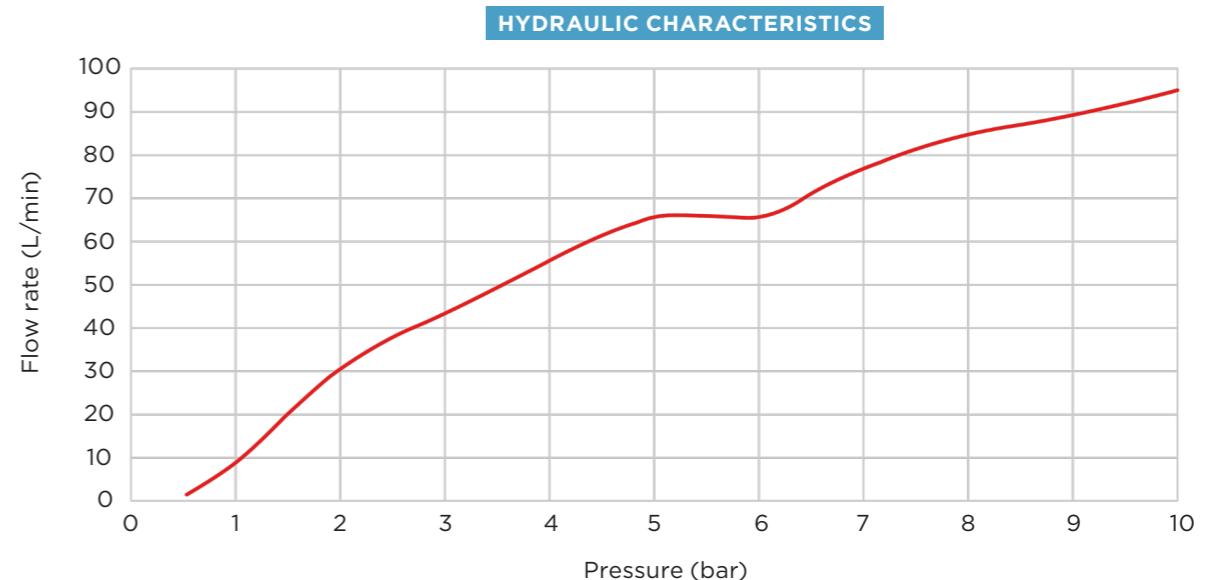


SOLENOID VALVES



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.



GENERAL FEATURES

- Long life material
- External filter replaceable
- Very compact design
- Low power consumption
- Servo controlled
- 100% tested with water and air
- IP grade: IPX0
- Suitable for chemical disinfection (Chloramine) as well as thermal disinfection

MATERIALS

PLASTIC MATERIAL	PA66 GF50%
SEAL MATERIAL	All the seals are in EPDM or LSR
OTHER MATERIAL	Stainless steel
MATERIAL APPROVALS	KTW, ACS, NSF, WRAS
APPROVALS	NSF, ACS, UL, CE, VDE

WORKING CHARACTERISTICS

WORKING PRESSURE	0,1 ÷ 10,0 bar (1,45 ÷ 145 PSI)
PRESSURE BURST	According to EN60730
WATER HAMMER	According to EN60730
FLOW DIRECTION	Unidirectional
VALVE POSITION	Any position
WORKING FLUID	Tap water
INSULATION CLASS	H according with EN 60730
FLUID TEMP	5° ÷ 65°C (41° ÷ 150° F)
AMBIENT TEMP	5° ÷ 65°C (41° ÷ 150° F)

ELECTRICAL SPECIFICATIONS

ELECTRICAL CONNECTION	Faston 6,3x0,8 / Faston terminal UNI ISO 6952						
COIL POWER	4,2VA 8,2W	5,5W	6,5VA	8,2VA	7VA	6,5W	7,5VA
OPERATING VOLTAGE	12Vac/dc	12Vdc	220/240V	230V	24Vac	24Vdc	110/120V
ED	100%						

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ELECTRICAL SPECIFICATIONS LATCHING

COIL POWER	OPERATING VOLTAGE	MAX VOLTAGE SUPPLY	NOMINAL CURRENT	PULSE TIME
2,25W (6V)	6V (5Vmin) at 20° C	12V	375 mA (at 6V 25°C)	Close min 15ms / Open min 15ms

SPECIFICATION

CONNECTION	ORIFICE (MM)	PRESSURE MIN	PRESSURE MAX	FILTER	CHECK VALVE
G 3/4" - PF Ø6MM	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	✓	✓
G 3/4" - PF Ø8MM	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	✓	✓
G 3/4" - PF Ø10MM	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	✓	✓
G 3/4" - PF Ø1/4"	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	✓	✓
G 1/2" - G 1/2"	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	✓	/
G 3/4" - G 1/2"	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	✓	✓
G 3/4" - G 3/4"	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	✓	✓
G 3/4" - G 3/8"	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	✓	✓
G 3/8" - G 3/8"	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	✓	/
G 3/4" - G 1/2" 90°	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	✓	✓
G 1/2" - G 1/2" 90°	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	✓	/
PF Ø6MM - PF Ø6MM	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	/	/
PF Ø8MM - PF Ø8MM	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	/	/
PF Ø10MM - PF Ø10MM	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	/	/
PF Ø1/4" - PF Ø1/4"	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	/	/
PF Ø3/8" - PF Ø3/8"	11	0,1 bar (1,45 PSI)	10 bar (145 PSI)	/	/

SOLENOID VALVES

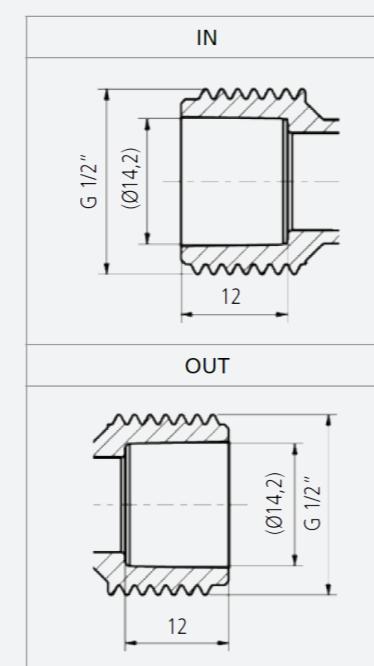
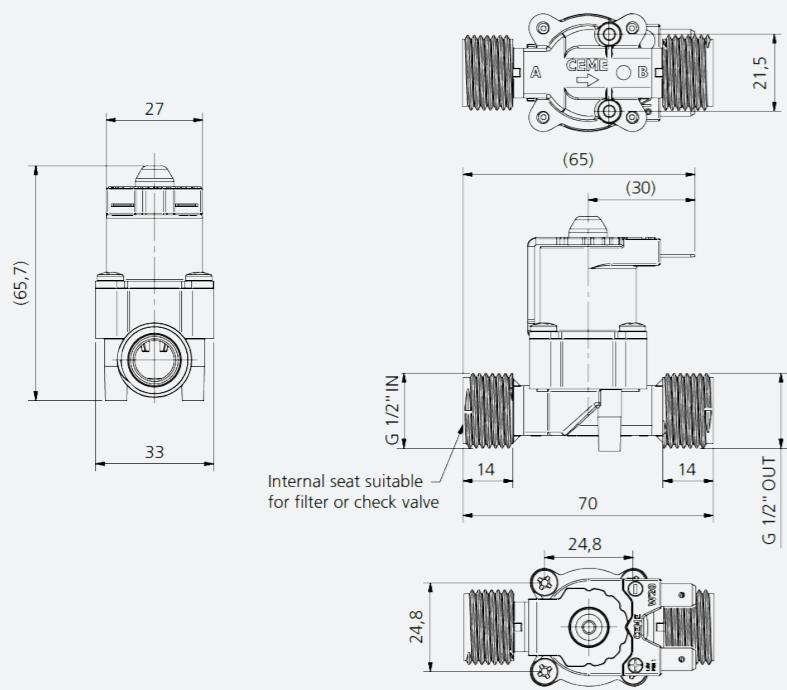
THREAD - THREAD



AVAILABLE ALSO
IN VERSION:

G 1/2" - G 1/2"
G 3/4" - G 1/2"
G 3/4" - G 3/4"
G 3/4" - G 3/8"
G 3/8" - G 3/8"

EXAMPLE DIMENSION DRAWING: 1/2" M - 1/2" M



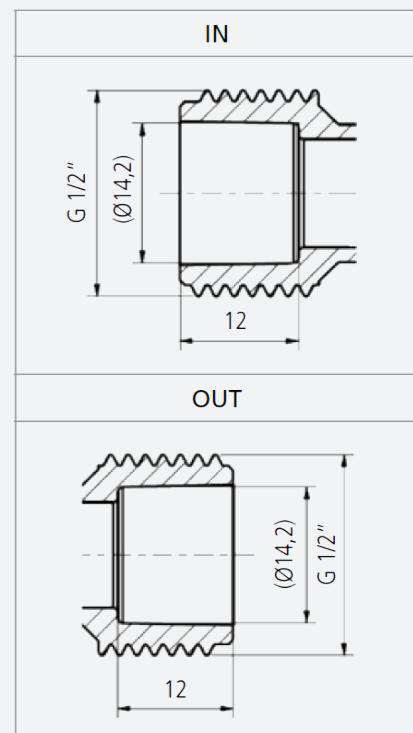
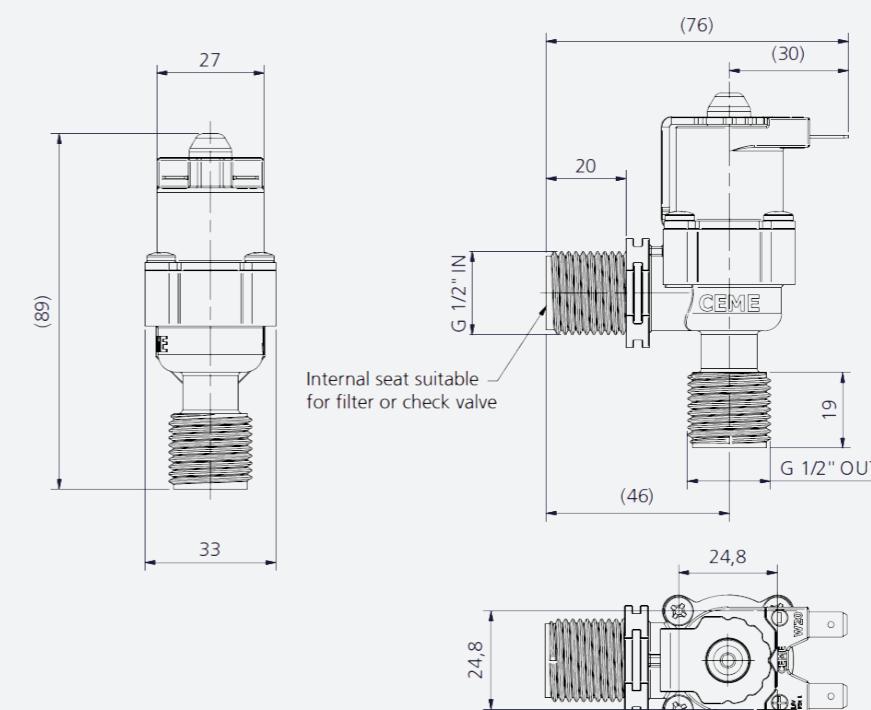
SOLENOID VALVES

THREAD - THREAD 90°

AVAILABLE ALSO
IN VERSION:

G 3/4" - G 1/2" 90°
G 1/2" - G 1/2" 90°

EXAMPLE DIMENSION DRAWING: 1/2" M - 1/2" M 90°





SOLENOID VALVES

THREAD - PUSH FITTING



SOLENOID VALVES

PUSH FITTING - PUSH FITTING

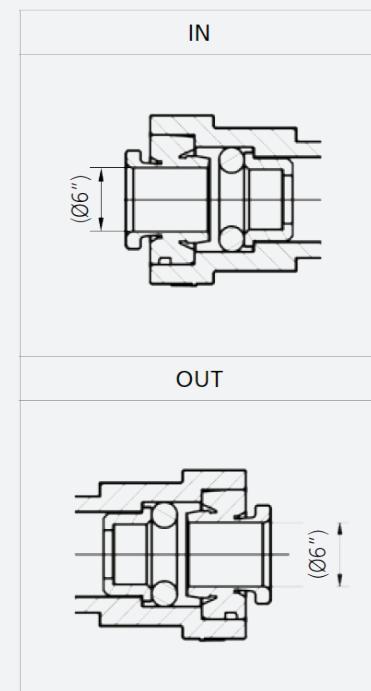
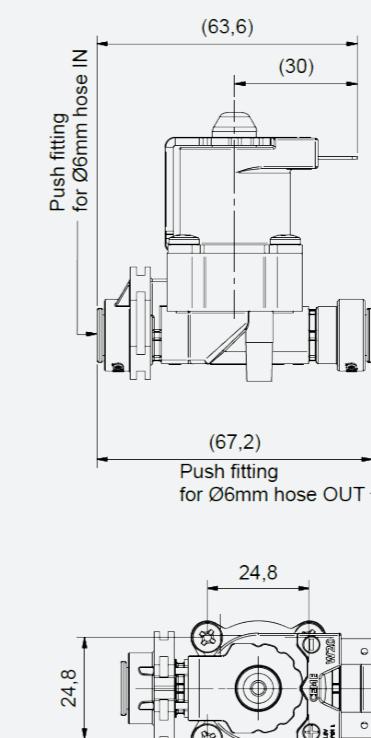
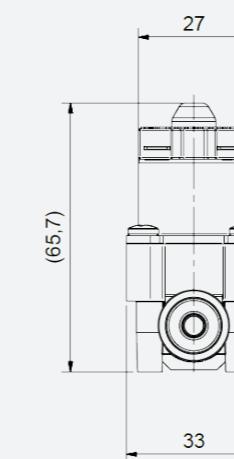
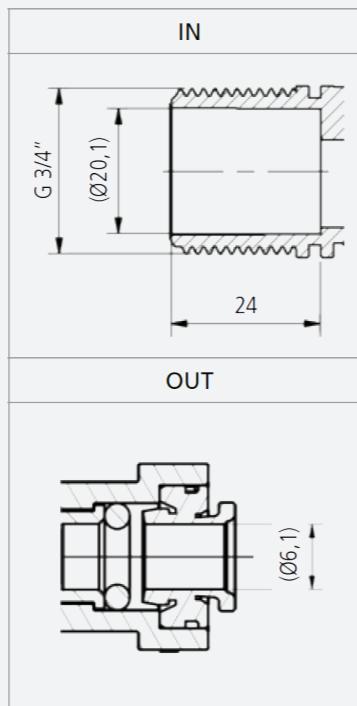
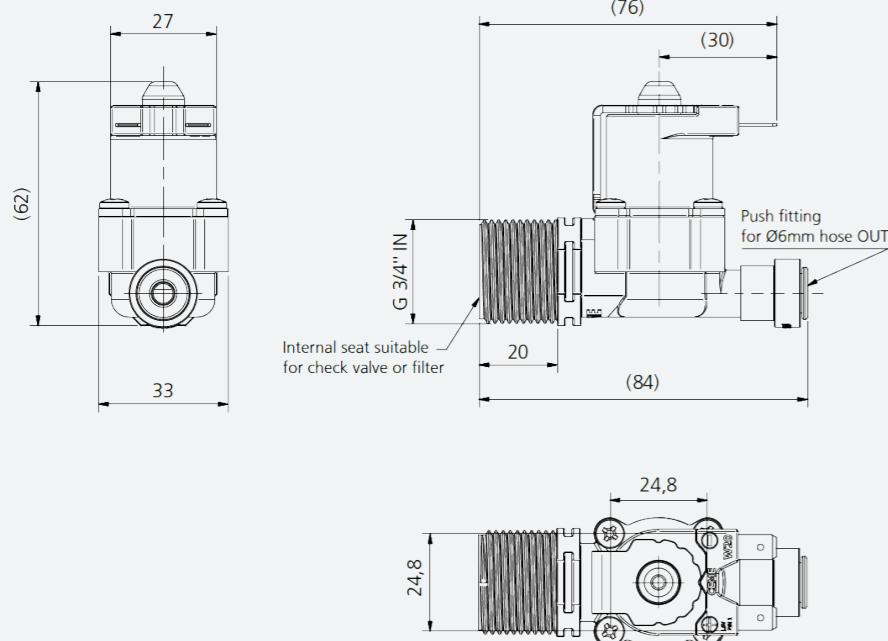
AVAILABLE ALSO
IN VERSION:

G 3/4" - PF Ø6mm
G 3/4" - PF Ø8mm
G 3/4" - PF Ø10mm
G 3/4" - PF Ø1/4"

AVAILABLE ALSO

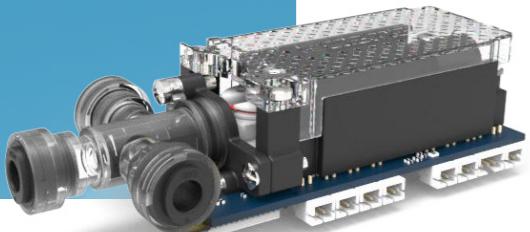
- PF Ø6mm - PF Ø6mm
- PF Ø8mm - PF Ø8mm
- PF Ø10mm - PF Ø10mm
 - PF Ø1/4" - PF Ø1/4"
 - PF Ø3/8" - PF Ø3/8"

EXAMPLE DIMENSION DRAWING: 3/4" M - PF Ø6mm



PROPORTIONAL VALVES

IFC SYSTEM



PRODUCT DESCRIPTION

IFC system from Ceme are 3- way medium separated valves for precision mixing. This device integrates sensors capabilities and electronic communication enabling management, maintenance, and data collection of fluidics performance from remote. Each product can be fully customized according to application needs, in terms of interfaces, fluidics performance and electronic control input.

GENERAL FEATURES

- High pressure liquid dosing, dispensing and mixing valve
- Closed loop proportional control
- Reliable sealing system with medium separation
- Low power actuator
- Noiseless operation
- Wireless data communication, remote control

CHARACTERISTICS

SEAL-LESS

No seal between plastic body and ceramic mixer

MEDIA SEPARATED

Drive components completely separated to the water

WORKING CHARACTERISTICS

WORKING PRESSURE

0 ÷ 10,0 bar (0 ÷ 145 PSI)

VALVE POSITION

Any position

WORKING FLUID

Tap water

POWER SUPPLY

12/24 Vdc 450 mA MAX

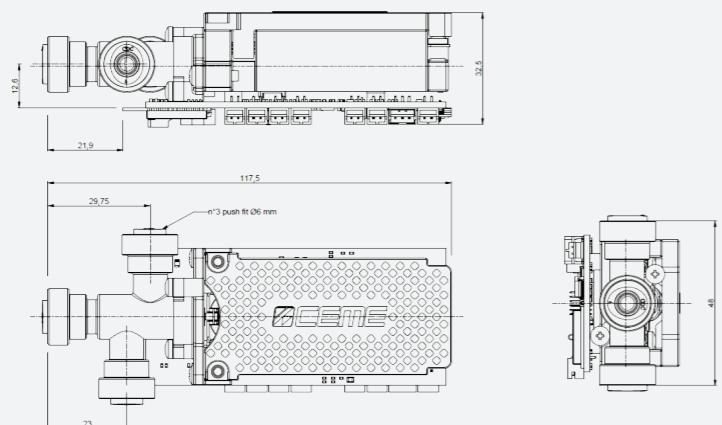
FLUID TEMP

0° ÷ 85°C (32° ÷ 185° F)

AMBIENT TEMP

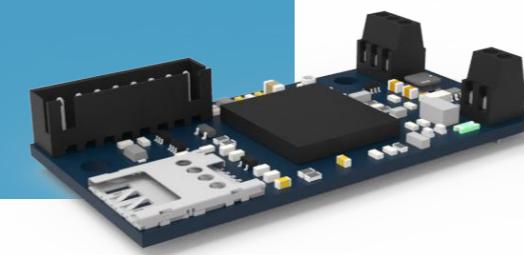
0° ÷ 85°C (32° ÷ 185° F)

DRAWING



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ELECTRONIC DEVICES



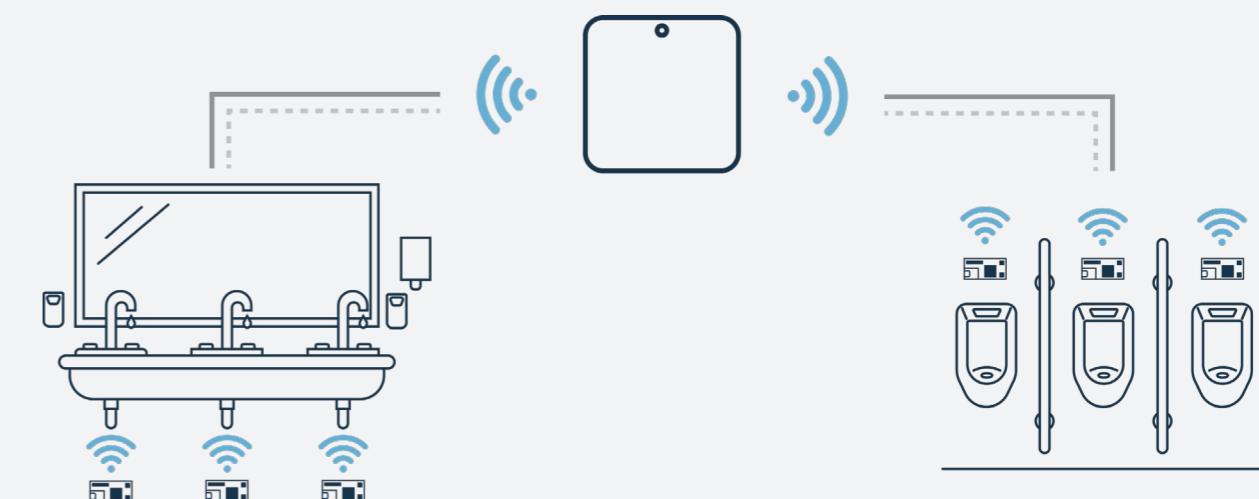
PRODUCT DESCRIPTION

All the information processed through this device can be sent to a cloud platform such as: Amazon AWS, Microsoft Azure or custom cloud. IoT devices in the industrial world are a fundamental aspect of the optimization process of the production. The secure transferring of data is an ideal base for several standard applications or a simple way to solve applications not supported from traditional technology.

GENERAL FEATURES

- Very compact size
- Multiple frequency bands LTE Cat NB2

GATEWAY



GENERAL FEATURES

- Ultra-low power consumption
- Battery monitor
- Latching pulse monitor
- Opening or closing failure
- Counter and output for Sanification
- Battery life over 5 Years
- Mesh network
- Compatible with all the electronics device* in the market

SUPERVISOR

WATER MANAGEMENT ACCESSORIES



PF CONNECTION

The innovative Push-Fit Connection **allows the Water Series Valves to be connected to the water supply system** precisely and safely using a rapid connection. This fitting contains a check valve that allows the water inside the valve to be isolated from that of the supply system.



MOUNTING BRACKET

Plastic bracket used for **fixing the water valve** where necessary. The bracket can be used in different positions.

CERTIFICATIONS AND SUSTAINABILITY

OUR PROGRESS

The Company is committed to making ongoing progress, while also strengthening its relationship with its key stakeholders. As a direct consequence of this commitment, the Group aims to continue to increase its understanding of how social and environmental sustainability matters relate to its daily activities: this is the main reason behind CEME Group's decision to extend its GHG emissions monitoring and reporting to new Scope 3 categories.

QUALITY ASSURANCE

Customer satisfaction, systematic product improvement and excellent service: these are the key elements in the success of a company.

The path leading to their achievement must follow the rigid rules known as "Quality Assurance". The idea of quality has always been part of the culture of CEME Group and its brands: a continuous process control, a computerized network to guarantee product conformity, the recording of each step to ensure an effective analysis of data, as well as a complete and efficient traceability of both components and finished products.





CONTACT INFORMATIONS

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