

K4.1
EREADY

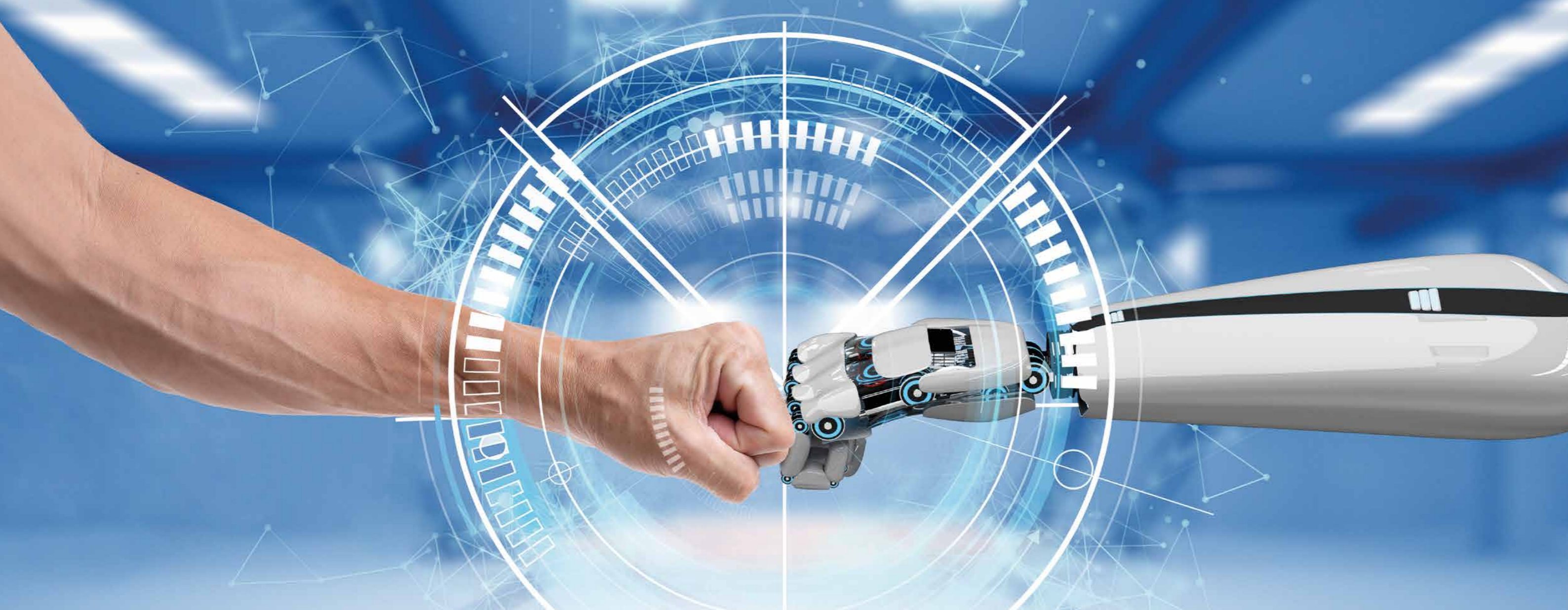
REMOTE CONTROLLED CONCEALED VALVE

NEW

SERIES
E100
ELECTRIC MOTOR

CONCEALED INSTALLATION EVOLUTION





K4.1
E-READY

SERIES
E100
ELECTRIC MOTOR

THE CONCEALED INSTALLATION POWERED BY **TECO**[®]

The digital revolution is already part of our lives and homes, but home automation technical solutions are not always intuitive to design, simple to install and easy to use for the end user.

To solve these challenges, TECO has designed the **K4.1 E-READY** valve, pre-assembled in a box and remote controlled. In the version with the **E104** motor, the **K4.1 E-READY** valve fulfils the new requirements of home automation, as it is:

- **INNOVATIVE IN APPLICATIONS:** the product can be used for heating and plumbing systems with several functions that can be integrated into modern system solutions. The compact design is suitable for any environment.
- **SIMPLE TO INSTALL:** the valve, pre-assembled in a compact box, can be installed quickly thanks to the **Fastec**[®] connections. Inserting the **E100 Series** motor is also quick and simple.
- **EASY TO USE:** the user can manage their own system independently and easily.

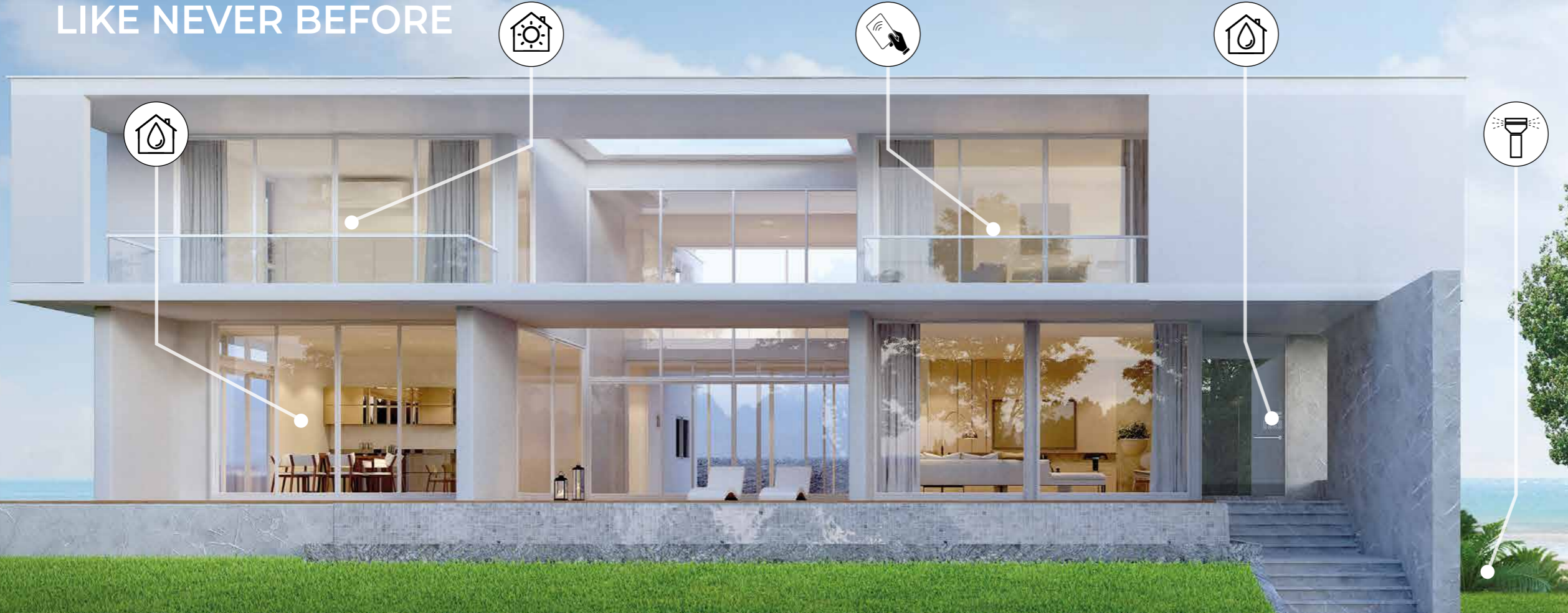
**THE CONCEALED INSTALLATION FUTURE IS TODAY,
THANKS TO **K4.1 E-READY**.**



CONCEALED
SHUT-OFF VALVE



CONCEALED INSTALLATION LIKE NEVER BEFORE



- DOMESTIC WATER**
 - General shut off from the housing unit.
 - Single interception of the room or appliance.
 - Component for leakproof systems.
 - Components for system flushing (anti-stagnation/anti-legionella).
- GARDENING**
 - Balcony/garden irrigation.
- NON-PERMANENT USERS**
 - "PAY PER USE" services and appliances
 - Hotel, B&B...
- HEATING**
 - Zone valve.

SET-UPS TODAY

You can decide to make the valve remotely operable at any time by replacing the handle with the **E104** motor.



K4.1 EREADY
MANUAL VERSION
CLOSING/OPENING VALVE WITH HANDLE







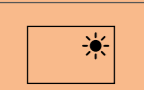
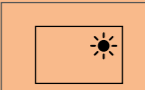


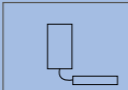







YOU CAN CHOOSE TOMORROW



K4.1 EREADY + E100
REMOTELY CONTROLLED VERSION
CLOSING/OPENING VALVE WITH MOTOR

MAP OF THE APPLICATIONS

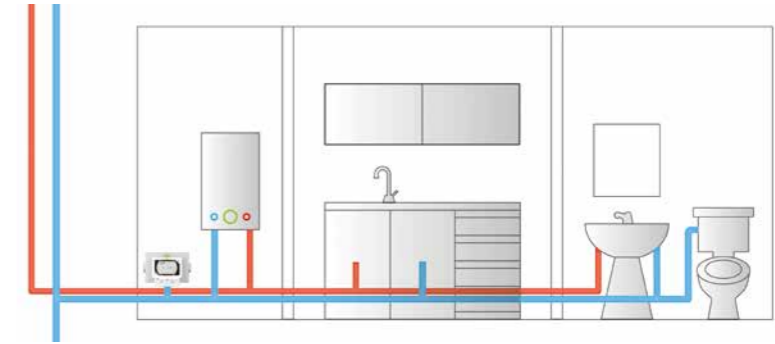
APPLICATIONS	 HEATING	 DOMESTIC WATER  GARDENING  NON-PERMANENT USERS
FUNCTIONS	 HEATING ZONE VALVE	 GENERAL/SINGLE INTERCEPTION ANTI-FLOODING/GARDENING ANTI LEGIONELLA
COMMANDS	 THERMOSTAT  WIRELESS THERMOSTAT	 SMARTPHONE  HOTEL/B&B CARD  ANTI-FLOODING PROBE  HOME AUTOMATION SWITCH  CLASSIC SWITCH
ELECTRICAL CONNECTION	DIRECT  ACTUATOR/GATEWAY/HOME AUTOMATION SYSTEM DIRECT	
MOTOR		
VOLTAGE	230V: Cod. E1042100 24V: Cod. E1044100	230V: Cod. E1045100 24V: Cod. E1046100

ON/OFF motor with auxiliary microswitch to manage the activation of the generator with the valve open.

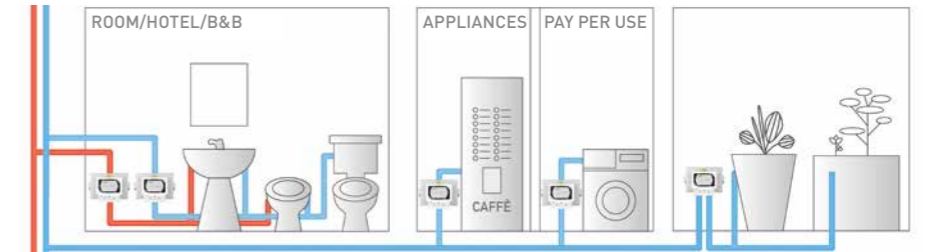
ON/OFF motor with auxiliary microswitch to detect the actual closure of the valve. Ideal to be inserted in systems that require **safety feedback of successful closure**.

EXAMPLES OF APPLICATIONS

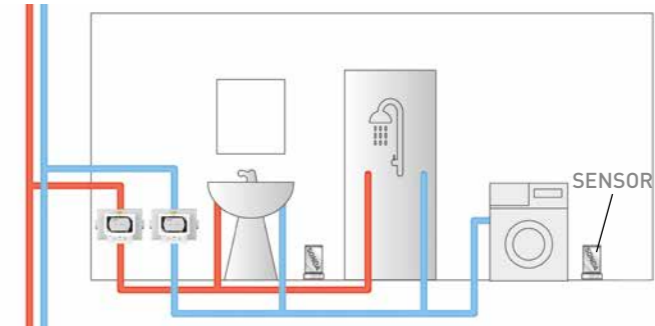
GENERAL INTERCEPTION
AUTONOMOUS SYSTEM



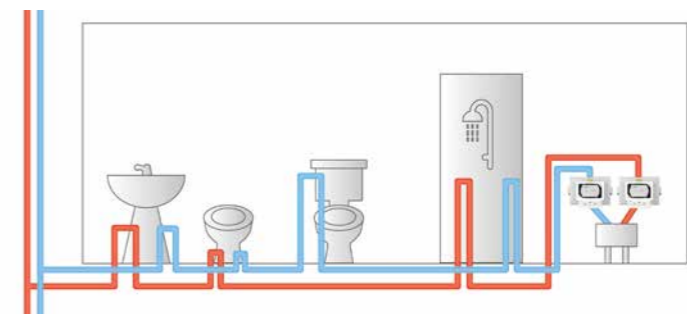
SINGLE INTERCEPTION
AUTONOMOUS SYSTEM



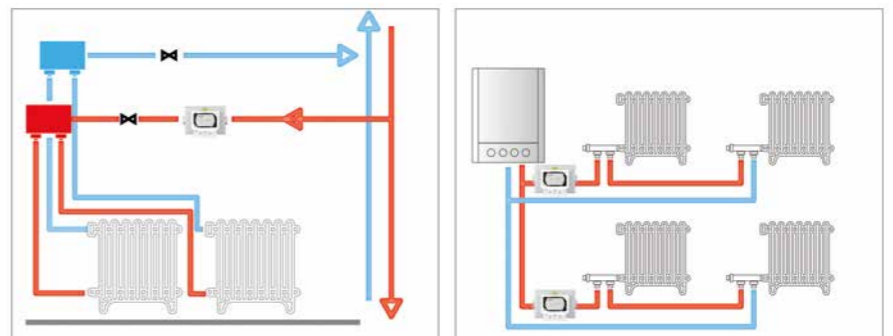
ANTI FLOODING PROBE
WITH FLOOR SENSOR



ANTI LEGIONELLA
FLUSHING



HEATING



THE FIRST COMPACT, FLUSH-MOUNTING AND REMOTELY CONTROLLED VALVE

K4.1
EREADY

**READY FOR
COMPACT FLUSH-MOUNTING**

Pre-assembled valve in box with pre-cut parts to speed up installation, fixing brackets and a spirit level.
Depth 75 mm / 80 mm

FASTEC®

**READY FOR
RAPID AND FLEXIBLE
CONNECTION**

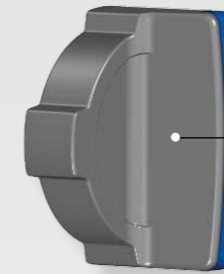
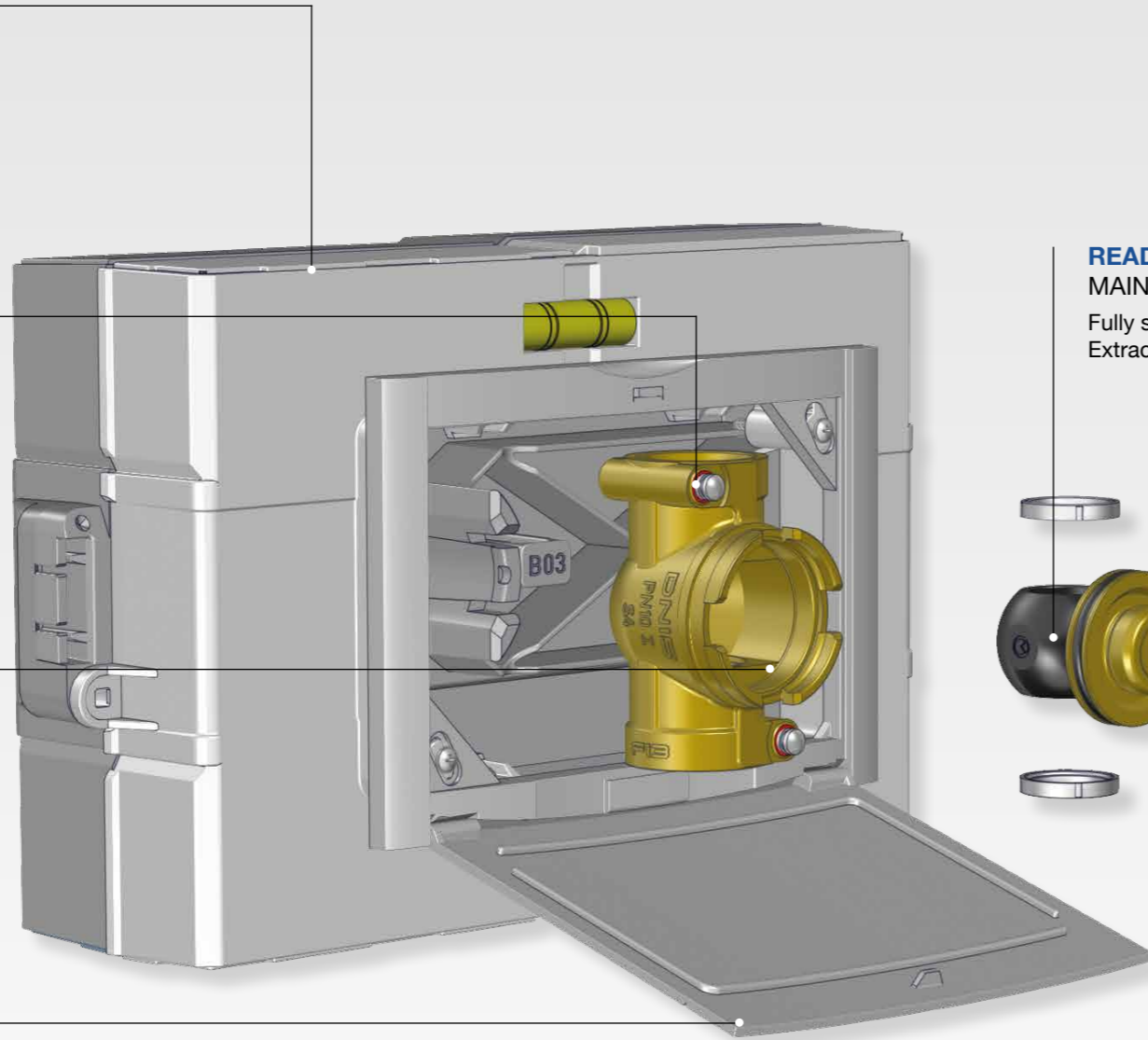
Fastec® connection system:
Simple and safe.

**READY TO
LAST LONGER**

The shut off valve guarantees low manoeuvring torque, called Soft Turn, and constantly high performance over time. The technopolymer ball is anti-blocking, resists abrasion from impurities and does not create water stagnation (DVGW W570).

**READY FOR
ACCESSIBLE FLUSH-MOUNTING**

Wall-flush closing plates with different finishes.



**READY FOR
MAINTENANCE**

Fully serviceable valve.
Extractable **Top Entry** ball and with full bore.



**READY TO
MAKE YOU CHOOSE**

Choose whether to transform the valve from the manual version to the version with a remotely controlled motor.

SERIES
E100

**READY FOR
THE FUTURE**

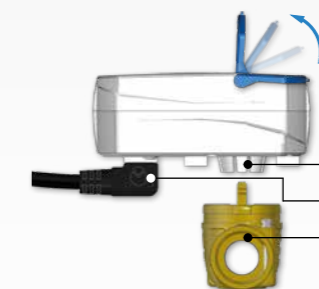
Compact, reliable motor with low energy consumption that can be installed with no tools.

**READY FOR
ACTION**

Once the electrical connection has been set up, just connect the cable to the motor without using tools.

**E100 SERIES MOTOR,
EASILY INSTALLED**

Once the connection to the mains has been set-up and the Molex connector has been inserted into the motor, it can be manually fitted thanks to the Snap-Fit connection.

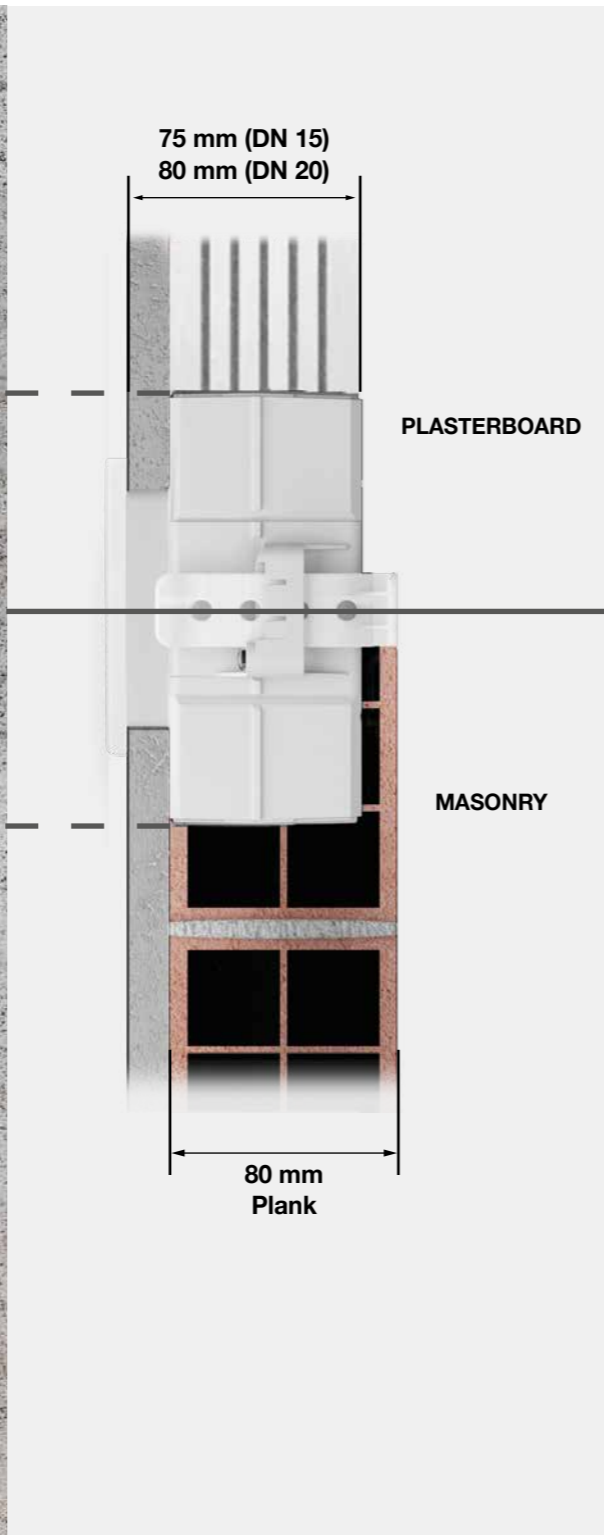


**SNAP-FIT ASSEMBLY/
DISASSEMBLY**



VALVE HOUSING SEAT
MOLEX MICROFIT CONNECTOR
VALVE K4.1

READY FOR COMPACT FLUSH-MOUNTING



Compact dimensions for safe, practical and effective installation even in small spaces.

APPLICATION: DOMESTIC WATER

Code	Voltage	Description
E1045100	230V	Motor 230V micro 20s SPST micro switch with closing signal
E1046100	24V	Motor 24V micro 20s SPST micro switch with closing signal

APPLICATION: HEATING

Code	Voltage	Description
E1042100	230V	Motor 230V micro 20s SPST micro switch with opening signal
E1044100	24V	Motor 24V micro 20s SPST micro switch with opening signal

The **K4.1 E-READY** valve (also in the **E104** motor version), pre-assembled in an extremely small box, can be installed in any type of wall.

COMPACT AND EFFECTIVE

The **E100 Series** motor by TECO is optimised in size and performance to be inserted into the pre-assembled valve box **K4.1 E-READY**.

It is an extremely compact, low energy consumption, silent and reliable motor, which exploits the advantages of the **Top Entry** valve with anti-blocking technology.

READY FOR INSTALLATION

QUICK AND FLEXIBLE INSTALLATION

K4.1 E-READY can be installed quickly and easily, thanks to the **Fastec®** connection, which allows you to connect pipes and work safely in small spaces thanks to the new elbow and T-fittings.



COMPACT INSTALLATION

The small pre-assembled box (only 80 mm/75 mm deep) is fitted with pre-cut parts, fixing brackets and a spirit level. **K4.1 E-READY** can be installed quickly and easily on any type of wall. Once installation is completed, it is accessible for every need.



CAUTION: when installing the valve, set up the corrugated pipe in the box to make the valve remotely controlled.



READY TO MAKE YOU CHOOSE

CHOOSE WHEN YOU WANT

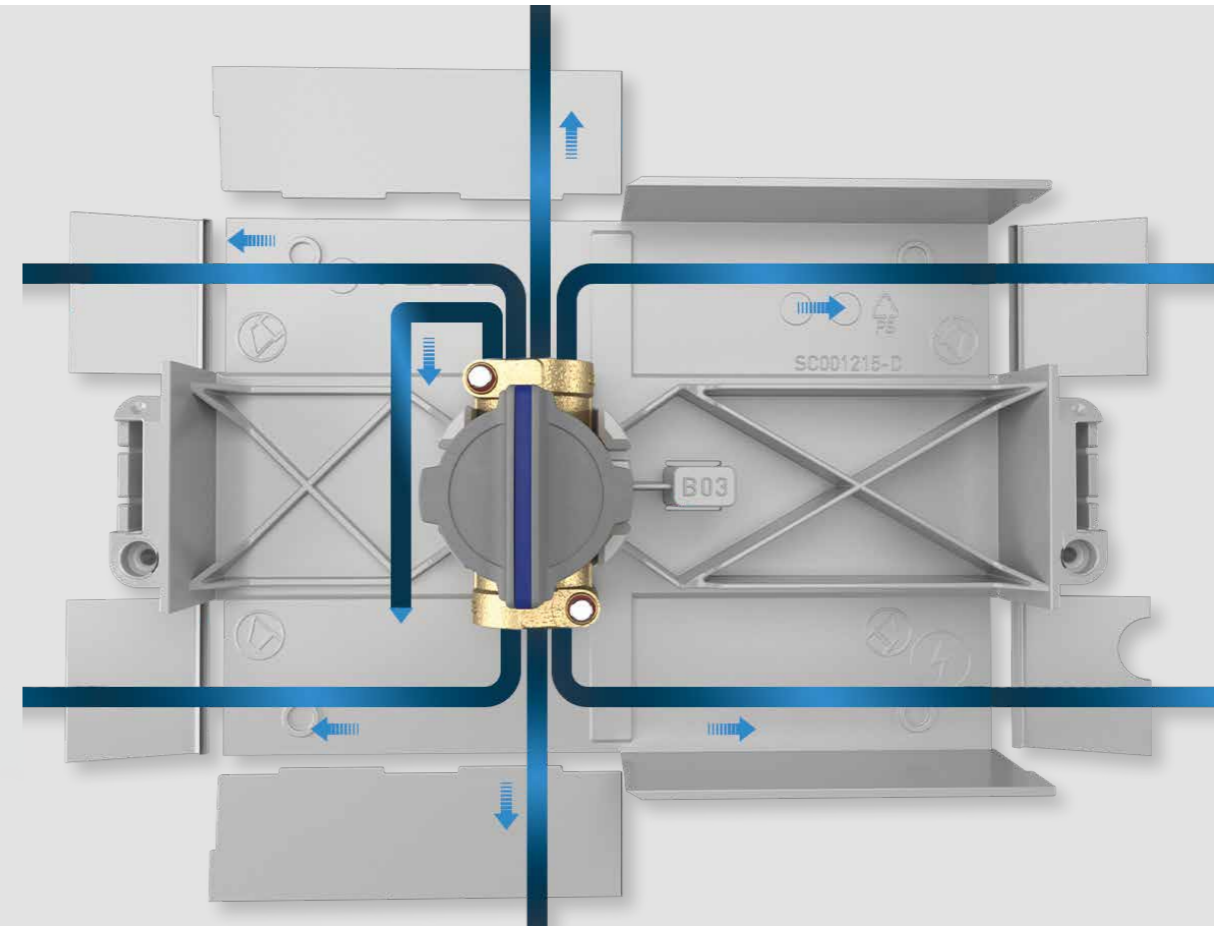
With the set-up of the corrugated pipe in the box, the choice of equipping **K4.1 E-READY** with the electric motor **E100 Series** can be made at a later time with a few simple steps. **E104** can be easily inserted and removed from its seat.



READY FOR MAINTENANCE



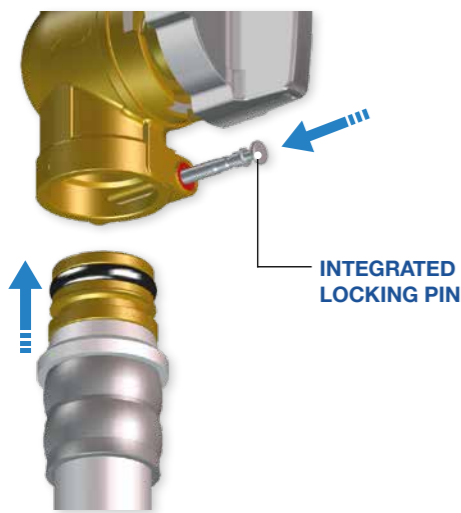
READY FOR RAPID AND FLEXIBLE CONNECTION



NEW
Elbow



NEW
"T"



FASTEC® THE SIMPLE AND SAFE HYDRAULIC CONNECTION.

The **Fastec®** system was designed by TECO with a locking pin and a large section O-Ring, to offer a reliable connection with no tools and with no possibility of errors. **Fastec®** has been chosen by the best system engineers on the market for over 20 years.



Fastec Store®

Fastec® is available in two different sizes: **F13** and **F14**

Valve DN	Fastec® Fitting	Pipe Diameter
15	F13	16, 20, 25, 26 mm, 1/2"
20	F14	25, 26, 32 mm, 3/4"

The range of F13 and F14 fittings covers 16-32 mm pipe diameters, fulfilling every installation requirement, from the riser to the specific utility.

FASTEC® ACCESSORIES AND FITTINGS



Twin 1



Twin 2



Male thread



Eurocone 3/4"



Cap



NEW
Elbow



NEW
Female Elbow



NEW
"T"



NEW
Female T

READY FOR EVERY ENVIRONMENT

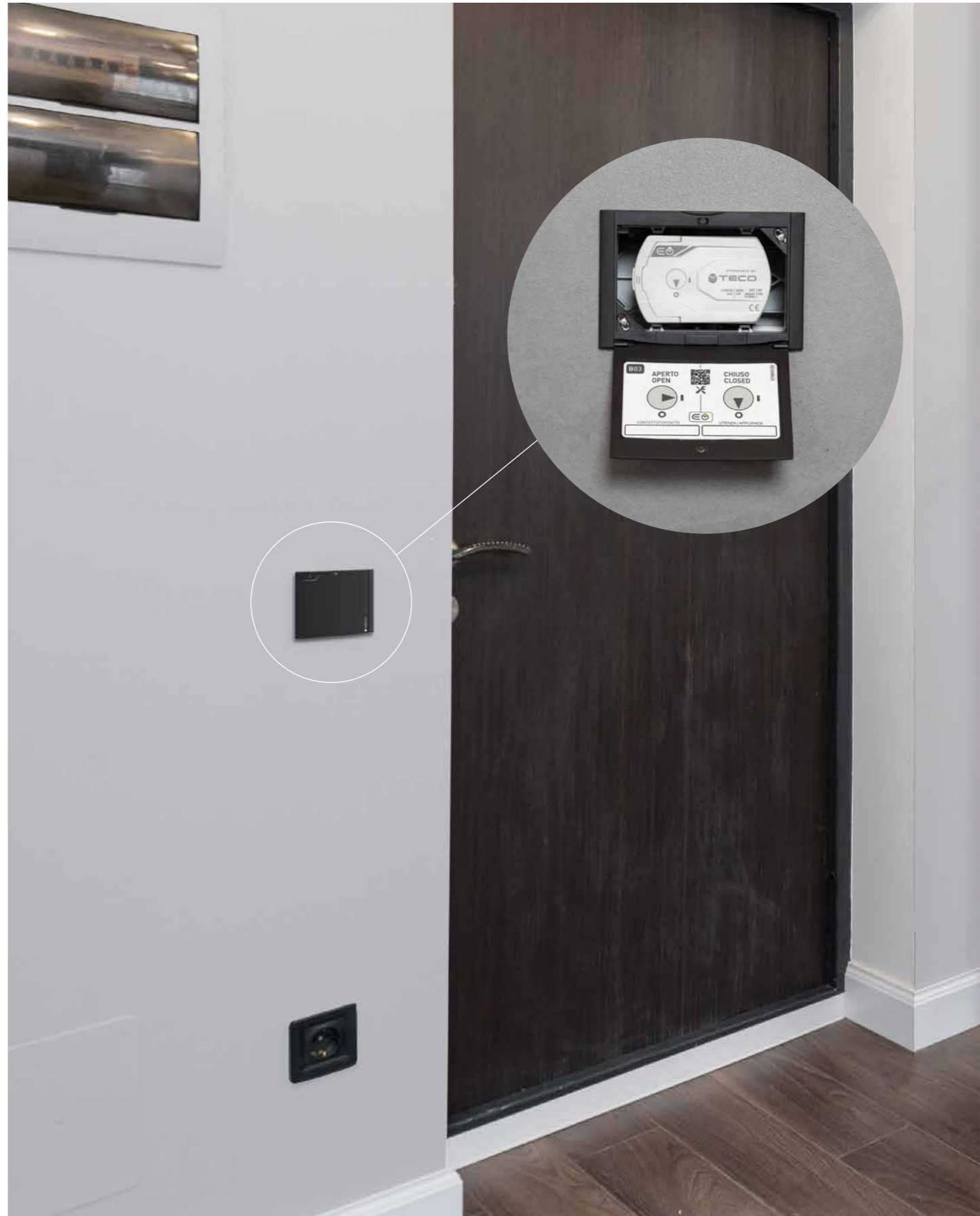


AUTOMATION THAT KNOWS HOW TO BE DISCREET

The only element of the **K4.1 E-READY** valve that is visible externally is the cover plate – elegant and available in various finishes. Due to the compactness and aesthetics of the cover plate, **K4.1 E-READY** can be placed anywhere and integrates perfectly with the style of any environment.

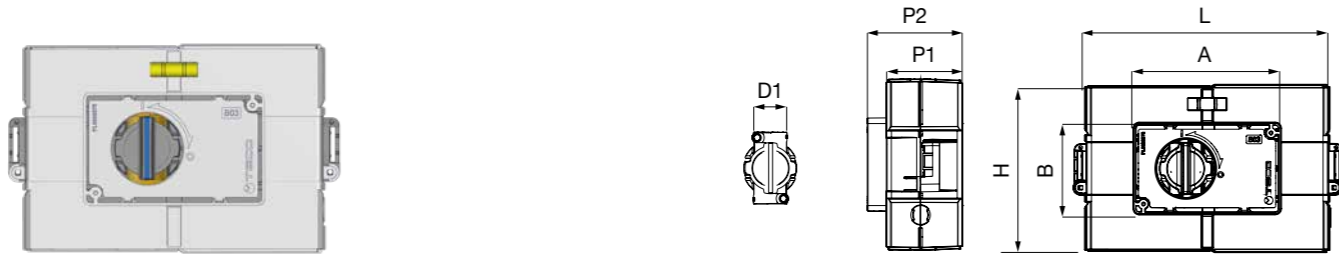


NEW
Plate with magnetic opening/closing



RANGE OF PRODUCTS

K4.1 E-READY - CONCEALED SINGLE SHUT-OFF VALVE



Code	DN	D1	L	H	P1	P2	A	B	Plate	Pack
K401BF10300	15	F13	198.5	136	60	75	118.7	74	B03	5
K401BF30200	20	F14	198.5	136	60	80	118.7	74	B03	5

Includes:

Pre-assembled box, fixing brackets, site protection, spirit level

Does not include:

Cover plate, fittings, motor and cable

Features

- Removable ball valve, with brass body and Top Entry system®, compliant with DIN EN 13828 with light "Soft Turn" manoeuvring, complete with an inspectionable box.
- Closing and opening by actuating the handle or set-up with E104 motor.
- Manually opening cover plate with magnetic closure, available in four finishes.

Field of use

- For hot and cold drinking water
- Domestic water systems

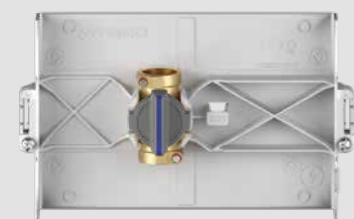
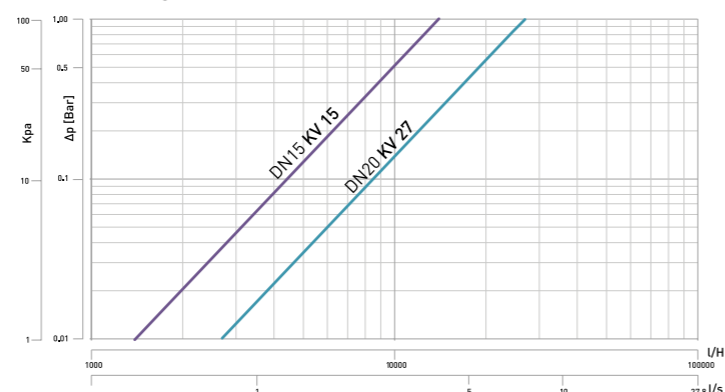
MATERIAL

Body	Brass CW617N
Box	PS
Top-Entry Ball	Technopolymer

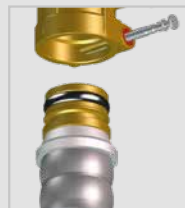
TECHNICAL DATA

Connections	FASTEC®
Operating pressure	PN10 (10 bar)
Temperature	0 °C + 95 °C
Standard and certification	DIN EN 13828 - (KTW-W270) DVGW W 570-1

Flow loss diagram



Connection:



FASTEC

F13 - DN15

Range of fittings:
16, 20, 25, 26 mm = 1/2"

F14 - DN20

Range of fittings:
25, 26, 32 mm = 3/4"

Specifications:

K4.1 E-READY Motorisable flush-mounting shut-off valve

Top Entry removable ball shut-off valve with full bore, compliant with DIN EN13828, pre-assembled in an inspectionable sandwich box with pre-cut parts.

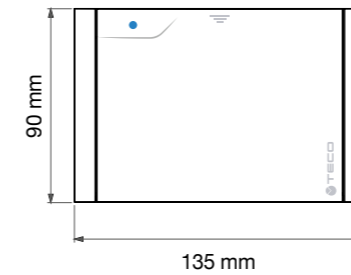
Technopolymer ball and "soft-turn" anti-blocking gaskets.

Including brackets and protective cover.

Closing and opening by actuating the handle.

Operating pin compatible with the mounting of the ON-OFF electric motor with auxiliary microswitch in the version with opening signal or in the version with safety feedback when the valve has closed.

COVER PLATE



Code	Finish	Pack
KPLB0301600	White	10
KPLB0301M00	Polished chrome	5
KPLB0301800	Silver	5
KPLB0301A00	Black Soft Touch	5

Includes fixing materials

As indicated in the previous pages, the Fastec® fittings are found in the ranges of water system manufacturers (domestic water and thermal)



FASTEC® ADAPTERS

Image	Drawing	Code	Description	D1	D2	Pack
		RF12210100	Elbow fitting	F13M	F13F	10
		RF22220100	Elbow fitting	F14M	F14F	10
		RF12210200	Female elbow fitting	F13M	F13F	10
		RF22220200	Female elbow fitting	F14M	F14F	10
		RF12310100	T-fitting	F13M	F13F	10
		RF22320100	T-fitting	F14M	F14F	10
		RF12310200	Female T-fitting	F13M	F13F	10
		RF22320200	Female T-fitting	F14M	F14F	10
		KA00F10001	TWIN 1 fitting	F13M	F13F	10
		KA00F10002	TWIN 2 fitting	F13M	F13F	10

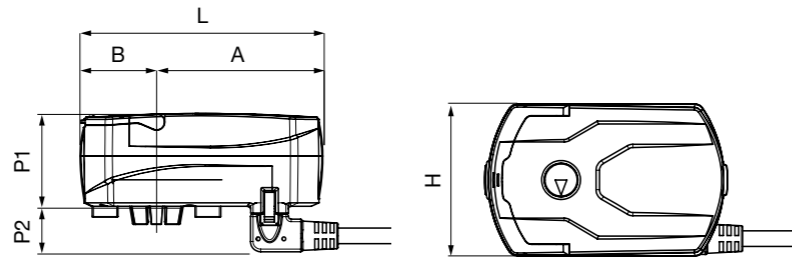
ACCESSORIES AND SPARE PARTS

Image	Drawing	Code	Description	DN	Pack
	-	KA00K40011	Handle E4 kit	-	1
		KA00K00015	Modular handle E4 extension kit 23mm modular extension + screws + extensions for plate*	-	1
		KRTCE415000	Teco Control E4 spare part kit	15	1
		KRTCE420000	Teco Control E4 spare part kit	20	1
	-	KRPL0004	150x105x15 mm** Maintenance Frame**	-	1

* Several extension kits can be applied to the same valve

** If the box is installed incorrectly, the maintenance frame is used besides wall-flush

E104 - ELECTRIC MOTOR



Appl.	Code	Voltage	Auxiliary microswitch	L	H	P1	P2	A	B	Pack
💧	E1045100	230V	Switch when closing	95	59	36	18	65	30	1
	E1046100	24V	Switch when closing	95	59	36	18	65	30	1
☀️	E1042100	230V	Switch when opening	95	59	36	18	65	30	1
	E1044100	24V	Switch when opening	95	59	36	18	65	30	1

Includes:

Cable (1 m)

Does not include:

Optional cable (3 m)

Features

- Low energy consumption electric stepper motor.
- Available in 4 different models depending on the usage requirements (domestic water systems or heating / connection to home automation systems or switch actuation).
- Quick assembly and disassembly thanks to the Snap-Fit connection and the Molex Microfit connector.

Field of use

- 💧 Domestic water systems
- ☀️ Heating

Safety

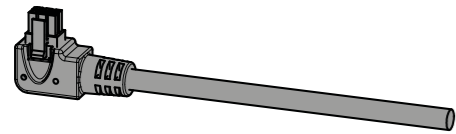
IP protection rating 40 IEC EN 60529/1997

Insulation class Class II equipment according to IEC 61140 (double insulation with no earth conductor)

Operation

Actuation time [s]	20	
Auxiliary microswitch with 3-wire output (applications)	Maximum current	6A @ 250Vac for resistive loads
6-pole power cable	Connector	1 M
	Length	Molex Micro-Fit JR 2x3
Operating temperature and humidity	Environment	-30 to 50°C @ 95% without condensation
	Fluid	65°C continuous with peaks of 90°C while respecting the ambient temperature constraints
Regulatory compliance	EN 60730-1	Automatic electric control devices for domestic use and similar
	2014/30/EU EN 61000-6-4	Electromagnetic compatibility

6P X 3M + CN cable kit. MICROFIT



Code	L	Pack
KA00K00014	3 m	1

Wiring diagram

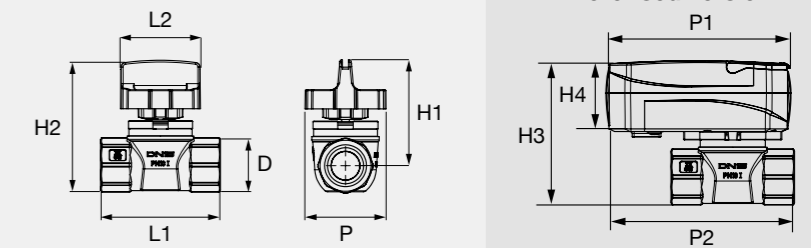
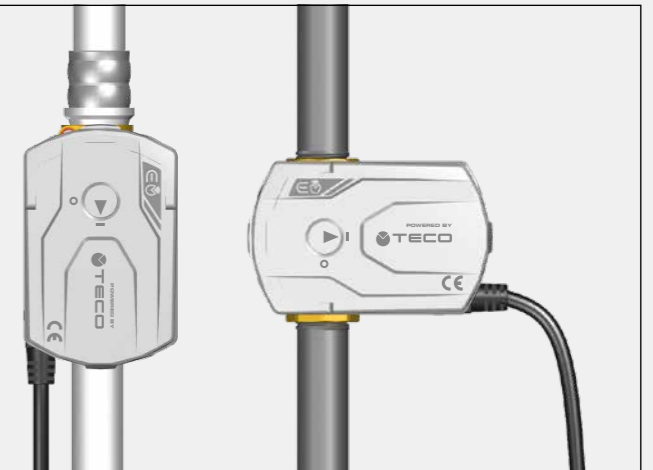


Specifications:

Electric motor E104

Low consumption silent, compact electric stepper motor, with ON-OFF function and auxiliary microswitch in the version with opening signal (heating) or in the version with safety feedback when the valve has closed (domestic water). Quick assembly and disassembly thanks to the Snap-Fit connection and the Molex Microfit connector. Ambient temperature -30/+50°C.

THERE IS A REMOTE CONTROLLED EXTERNAL VERSION IN ADDITION TO THE CONCEALED VERSION



Code	DN	D	L1	L2	H1	H2	P	Pack	P1	P2	H3	H4
T4P3271100	15	F13F	59	42	54	68	42	5	94	94	73	39
T4P4271100	20	F14F	72	42	58	75	42	5	94	100	80	39
T4P3211100	15	FF 1/2"	63	42	54	70	42	5	94	96	73	39
T4P4211100	20	FF 3/4"	72	42	58	75	42	5	94	101	79	39

Specifications:

T4 E-READY Shut-off valve motorisable

Top Entry removable ball shut-off valve with full bore, compliant with DIN EN13828. Technopolymer ball and "soft-turn" anti-blocking gaskets for gentle manoeuvring. Brass body. Operating pin compatible with the mounting of the ON-OFF electric motor with auxiliary microswitch in the version with opening signal or in the version with safety feedback when the valve has closed.

Does not include:

Fittings, motor and cable

Features

- Top Entry ball valve, with brass body and Top Entry system® compliant with DIN EN 13828 with light "Soft Turn"® manoeuvring.
- Closing and opening manually with the handle or motorised with the E104 motor.

Field of use

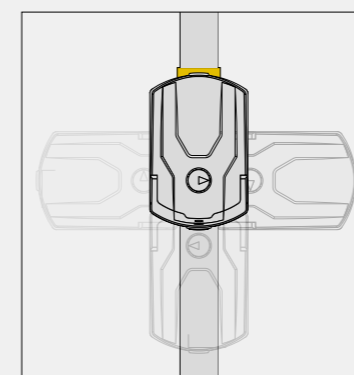
- For hot and cold drinking water
- Domestic water systems
- Heating

MATERIAL

Body	Brass CW617N
Top-Entry Ball	Technopolymer

TECHNICAL DATA

Connections	FASTEC®
Operating pressure	PN10 (10 bar)
Temperature	0 °C + 95 °C
Standard and certification	DIN EN 13828 - (KTW-W270) DVGW W 570-1



4 Positions of the E104 motor





Via Sandro Pertini n. 39/41
25050 Provaglio d'Iseo (BS), Italy
Tel. +39 030 6850510 | +39 030 6850555

info@tecosrl.it - www.tecosrl.it

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