

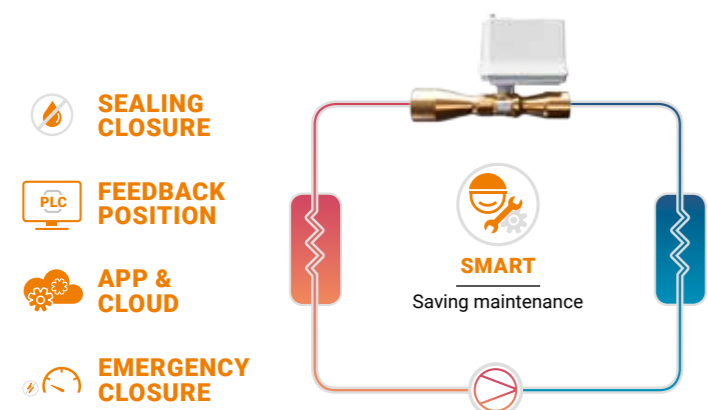
BEREVA Manufacturing the new generation of smart valves for refrigeration

Bereva is a Belimo Group company dedicated to the innovation of HVAC components. Our mission is to **produce the next generation of smart valves** that improve the productivity, safety, energy consumption and duration of refrigerating systems.

This is the vision behind **xBALL**, the system that transforms expansion valves into innovative components **capable of regulating loads and of assuring perfect sealing when closed.**

At Bereva we firmly believe in innovation as a result of cooperating with our customers and of listening to their needs. This is why we created **BEREVALAB**, the **advanced laboratory** that facilitates producers' research and the integration of the new xBALL smart technology into their system.

Thanks to our continuous investment in research and development we have become an excellence in manufacturing unique and dedicated solutions for the refrigeration market with the intention of meeting three fundamental needs: automation, connectivity and sustainability.



BEREVALAB Advanced Research Laboratory

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The new generation of smart expansion valves

www.bereva.it



CHILLING INNOVATION MADE SIMPLE

Smart devices are rapidly transforming the HVAC industry.

Bereva's xBALL System accelerates the integration of the new smart expansion ball valves and of their unique benefits.

READY-TO-USE INNOVATION

Highly compatible and easy-to-install innovative components.

PRODUCTION SIMPLIFICATION

Elimination of the use of solenoid valves and guarantee of improved control and performance.

LOWER CONSUMPTION AND EMISSIONS

Optimization of partial loads with energy saving. Automatic interaction with the centralized control unit makes the best possible use of the refrigerant throughout the circuit.

LESS MAINTENANCE

Reduced wear, longer duration of the systems and drastically lowered maintenance costs.



xBALL® Electronic Expansion Valve System

One solution, many benefits.

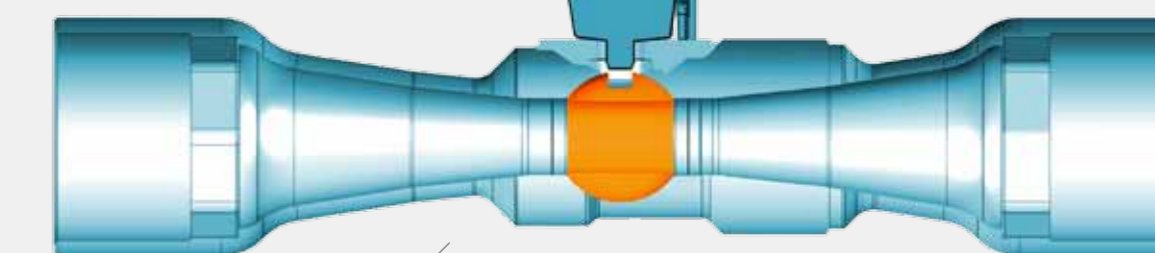
PLUG AND PLAY
High compatibility with systems and refrigerant fluids. The best interchangeability while maintaining the same valve driver.

EASY TO USE
Easy-to-use user interface. Simple and quick assembly and set-up operations.

SEALING CLOSURE
Greater reliability due to no leakage with valve closed.

APP AND CLOUD
Immediate access via Bluetooth to all operating data and easy access to the cloud for remote parameter transfer and control.

NO STARTING JUMP
Better adjustment at low loads.



MANUAL OVERRIDE
Total control of the single valve without interfering with the electrical command sequence and facilitated emergency interventions.

FEEDBACK POSITION
Continuous access to operating information with high time savings and speed-up of interventions.

NO STICKING
Lower risk of sticking and greater service continuity.

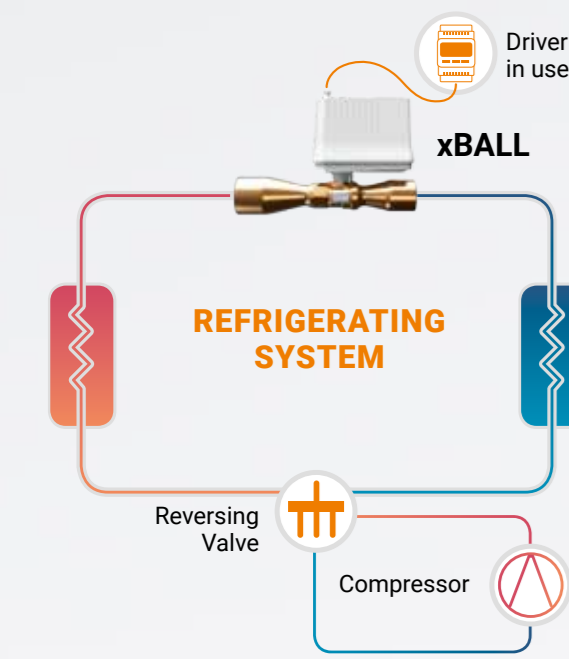


- SEALING CLOSURE**
- FEEDBACK POSITION**
- APP & CLOUD**
- EMERGENCY CLOSURE**



xBALL® Electronic Expansion Valve System

xBALL REPLACEMENT
Electronic expansion ball valve, stepper signal operated by superheating controller.



- CFC, HFC, HFO refrigerant compatible
- Perfect seal closure
- Suitable for main superheating controller with stepper signal
- Nominal voltage AC/DC 24 V
- IP54
- Feedback signal 0...10V
- Optional safety closure with supercap
- Configuration by Bereva app (Android or iOS)



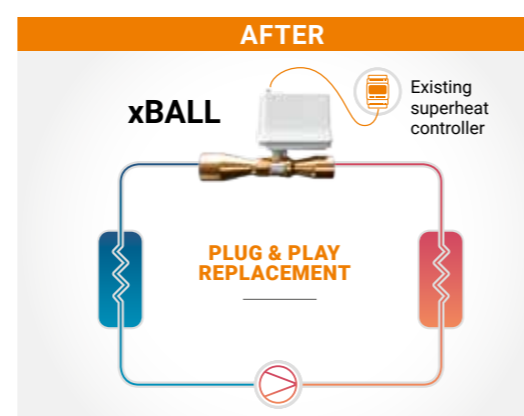
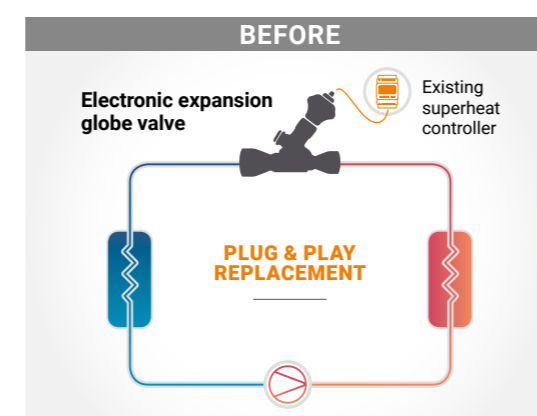
SMART AND EFFICIENT

xBALL can regulate flow optimally for all loads, reducing consumption. It interacts with the main controller, sending feedback automatically, allowing the position to be measured at every moment and constantly monitoring the coolant in the circuit.



READY TO USE

It is easy not only to install in new systems, but also to replace in existing plants and in integrated systems.



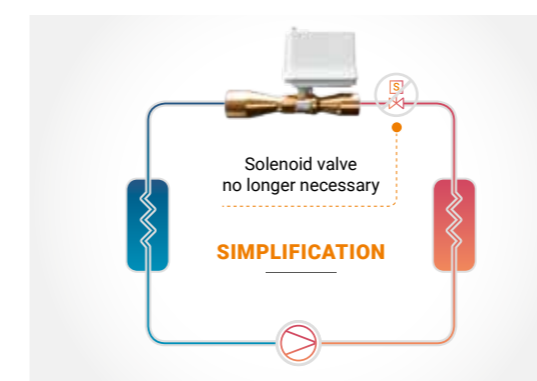
EXTREMELY EASY TO MONITOR

xBALL can be accessed remotely via the extremely intuitive and easy-to-use Bereva Syncra app that also allows the parameters to be monitored and transferred onto the dedicated cloud.



A CLEVER AND CONVENIENT SOLUTION

Using xBALL simplifies the system by allowing to eliminate solenoid valves. The in-line seal and anti-locking features reduce wear and extend the system's life. It also offers the possibility of activating automatic emergency closing in the event of power outage.



Electronic expansion ball valve **EXR...** **xBALL**

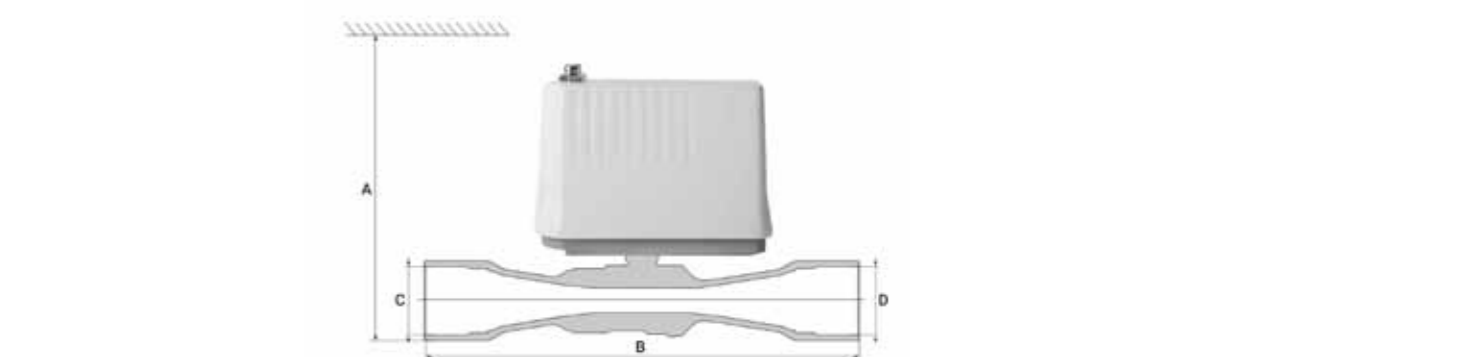
DATA SHEET



Product range	Cod. without supercap without cable	Cod. with supercap without cable	Description
	EXR10D16D16N	EXR10D16D16Y	Expansion valve replacement, 100 kW, copper connection ODF 16-16 mm
	EXR20D16D16N	EXR20D16D16Y	Expansion valve replacement, 200 kW, copper connection ODF 16-16 mm
	EXR50D22D22N	EXR50D22D22Y	Expansion valve replacement, 500 kW, copper connection ODF 22-22 mm
	EXR10D28D28N	EXR10D28D28Y	Expansion valve replacement, 100 kW, brass connection ODF 28-28 mm
	EXR10D35D35N	EXR10D35D35Y	Expansion valve replacement, 100 kW, brass connection ODF 35-35 mm
	EXR20D35D35N	EXR20D35D35Y	Expansion valve replacement, 200 kW, brass connection ODF 35-35 mm
	EXR50D42D42N	EXR50D42D42Y	Expansion valve replacement, 500 kW, brass connection ODF 42-42 mm



Cable connection kit for EXR valves	Code	Description
	CABR00030	EXR replacement expansion valve cables kit, crimped terminals, length 3mt
	CABR00060	EXR replacement expansion valve cables kit, crimped terminals, length 6mt
	CABR0009	EXR replacement expansion valve cables kit, crimped terminals, length 9mt



Dimensions (mm)	Valve model	A *	B	C	D	Depth *
	EXR10D16D16...	25	180	16	16	50
	EXR20D16D16...	25	180	16	16	50
	EXR50D22D22...	25	190	22	22	50
	EXR10D28D28...	25	180	28	28	50
	EXR10D35D35...	25	180	35	35	50
	EXR20D35D35...	25	180	35	35	50
	EXR50D42D42...	25	190	42	42	50

(*) Dimensions required for installation
The representation of the dimensions on the drawing is valid for all available models

