01/07/2026
VPPCV21SPD615

Programmable Battery Powered - E3113-46 / E4113-46

The normally closed automatic valve opens in response to pulses from a battery-powered control unit, regardless of changes in upstream pressure. The digital controller allows up to three different daily programs.

It is mainly used for discharge in the bottom of the line or to regulate the flow inside hydraulic circuits. Equipped with a visual position indicator and made entirely of stainless steel and ductile iron, the valve reduces pressure losses, vibrations and damage related to the phenomenon of cavitation.

Flange drilling according to EN 1092/2, different on request.

Certification and testing according to EN 1074.

		PN 10		PN 16	
Version	**DN (mm)**	**Mass (kg)**	**References**	**Mass (kg)**	**References**
E3113-46	80	31.00	E33A8016P46	31.00	E33A8016P46
E3113-46	100	37.00	E33B1016P46	37.00	E33B1016P46
E3113-46	125	57.00	E33B1216P46	57.00	E33B1216P46
E3113-46	150	64.00	E33B1516P46	64.00	E33B1516P46
E3113-46	200	110.00	E33B2010P46	110.00	E33B2016P46
E3113-46	250	188.00	E33B2510P46	188.00	E33B2516P46
E3113-46	300	305.00	E33B3010P46	305.00	E33B3016P46
E3113-46	400	516.00	E33B4010P46		
E3113-46	500	862.00	E33B5010P46	862.00	E33B5016P46
E3113-46	600	1002.00	E33B6010P46	1002.00	E33B6016P46

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		PN 10		PN 16	
Version	**DN (mm)**	**Mass (kg)**	**References**	**Mass (kg)**	**References**
E4113-46	3/4"	1.70	E43A1916P46	1.70	E43A1916P46
E4113-46	40/50	25.00	E43A5016P46	25.00	E43A5016P46
E4113-46	65	27.00	E43A6516P46	27.00	E43A6516P46
E4113-46	80	31.00	E43A8016P46	31.00	E43A8016P46
E4113-46	100	49.00	E43B1016P46	49.00	E43B1016P46
E4113-46	150	97.00	E43B1516P46	97.00	E43B1516P46
E4113-46	200	154.00	E43B2010P46	154.00	E43B2016P46
E4113-46	250	265.00	E43B2510P46	265.00	E43B2516P46
E4113-46	300	441.00	E43B3010P46	441.00	E43B3016P46
E4113-46	400	784.00	E43B4010P46	784.00	E43B4016P46
E4113-46	600	2250.00	E43B6010P46	2250.00	E43B6016P46

Applications

- Off-shoot of the main pipeline to regulate the flow with specific programs, in the absence of electrical power.
- For the discharge of bottom- line waste in water supply networks and hydraulic circuits.

Accessories

- Manometers.
- Self-cleaning high capacity filter.
- Container to estate of water IP 68 For the submerged installations.
- Limiter of opening manual

Directions for use

- The inlet and outlet pressure, flow rate and application values are required for sizing and cavitation analysis.
- Oversizing the valve can cause an excessive pressure-drop during opening, preventing it from closing.

Optional configurations

- Valve with on-off regulation via independent programmer and anti-backflow system.
- Valve with on-off regulation by means of a programmer and rapid relief pilot.

Operating conditions

- Fluid: treated water.

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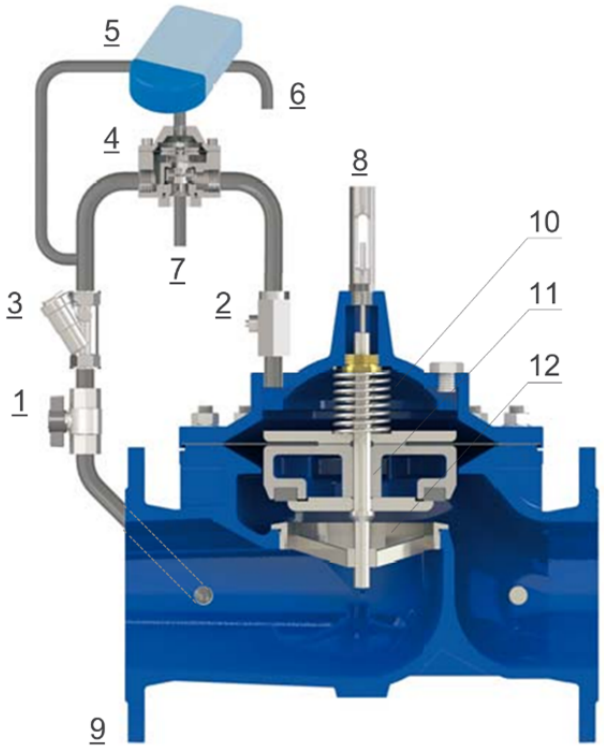
- Minimum pressure: 0,7 bar.
- Maximum pressure: 16 bar. Higher on request.
- Maximum temperature: 70 °C.

Using the programmer

- The programming procedure is illustrated in the installation manual supplied with the valve.

How it works



The hydrovalve is controlled by a battery operated digital unit that pulses the solenoid (5) to open the valve and allows up to three different daily programs. The flow accelerator (4) is present in models with a diameter of 150 mm or larger.

When the solenoid (5) is energized, the pressure is discharged from the chamber (10) so as to cause the shutter (11) to rise and open the valve. In response to a different impulse, the solenoid (5) instead directs the pressure into the chamber (10) so as to interrupt, with the descent of the shutter (11), the flow through the seat (12).

The pressure towards the main chamber (10) is controlled by a needle valve (2), necessary to avoid possible water hammer during the closing phase. A filter (3), installed upstream, also protects the solenoid and the other components of the circuit from contact with impurities and debris.

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Installation diagram

The following image shows the recommended installation scheme of the valve positioned on a bottom line, branching from the main line.

Shut-off devices (1, 2) and bypasses are provided, important for maintenance, and a filter (3), which retains any impurities.

The installation of combined anti-water hammer vents (4) upstream of the valve is also recommended.

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