



EV SERIES 50 HZ

VERTICAL MULTISTAGE PUMPS



VERTICAL MULTISTAGE PUMPS

APPLICATIONS

- Boiler feed
- Circulation of hot and cold water for heating, cooling and conditioning systems
- Handling of water, free of suspended solids, in the civil, industrial and agricultural sector
- Irrigation systems
- Pressure boosting and water supply systems
- Wash down unit
- Water treatment plants

FEATURES

- All wetted parts in stainless steel (Inox version)
- Compact and solid structure
- Diffuser bushing made of graphite for durability against dry running (EV 30-45-65-95)
- Easy disassembly without any special tool
- Easy installation in-line ports
- Stainless steel impeller and diffuser for corrosion resistance
- Oversize ball bearing (bearing bracket) ensures motor-bearing long life and eliminates axial and other adjustments of moving parts
- WRAS certified PPS (EV 1-3-6-10-15-20) / PTFE (EV 30-45-65-95)
- Easy to replace floating neck rings guarantee long-lasting performance
- Removal of the mechanical seal without disassembling the pump; for models higher than 4 kW no need to dismantle the motor
- Replaceable stainless steel wear ring in the neck of the impeller
- Shaft bearing and journal sleeve made of tungsten carbide
- Standard mechanical seal (EN 12756 ex DIN 24960) WRAS certified; balanced version for EV 30-45-65-95
- Standard IE3 motor without oversize bearing, size B14 up to 4 kW / size B5 from 5.5 kW and above
- Tungsten carbide intermediate bearing to control and eliminate vibration and stabilize the rotor with a large number of stages

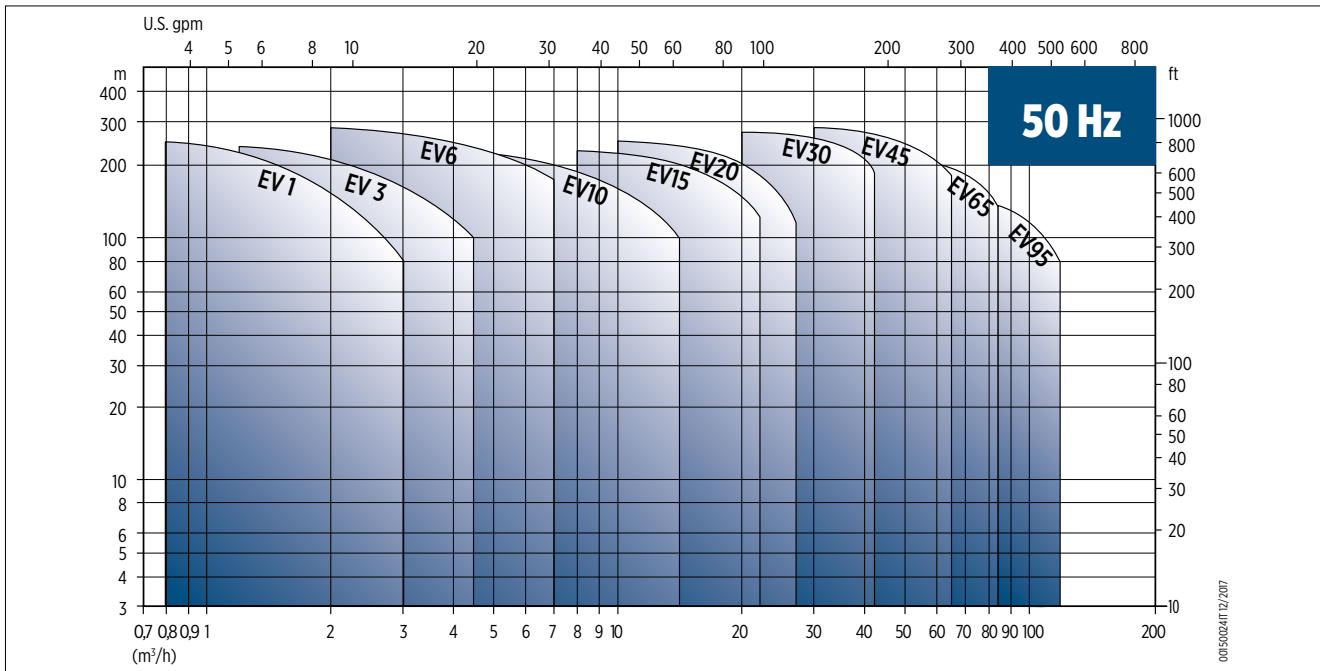
SPECIFICATIONS

- Flow: up to 120 m³/h at 50 Hz
- Head: up to 320 m at 50 Hz
- Direction of rotation: clockwise looking at the pump from the top
- Discharge and Suction port: Oval, Round flanges, Victaulic and Clamp connections
- Hydraulic characteristics are guaranteed, according to ISO Standard 9906:2012, grade 3B
- Liquid temperature range: from -15 °C to +120 °C
- Materials: suitable for handling potable water (materials approved according to WRAS, ACS)
- Maximum working pressure: Oval flange 16 Bar; Round Flange, Victaulic and Clamp connections 25 bar
- Motor powers from 0.37 to 45 kW at 50 Hz
- AISI 304 Standard for models EV 1-3-6-10-15-20

AVAILABLE ON REQUEST

- AISI 304 version for models EV 30-45-65-95
- Special materials for the mechanical seal, gaskets and elastomers
- Balanced mechanical seal EN 12756 for EV 1-3-6-10-15-20
- Oval counter flanges (EV 1-3-6-10-15-20)
- Round counter flanges

FAMILY CURVES



PUMP IDENTIFICATION CODE

EV 30 / 15 F G 015 E1

- If empty: pump without motor "IE.": motor efficiency class
- If empty: Std. version
- If empty: Std. version, "P": Passivated
- If empty: Std. version, "H": High pressure
- Type of mechanical seal and O-ring
- Mechanical seal: if empty: Std., "B": balanced
- Type of motor: if empty: "without motor", "T": three-phase, "M": single-phase
- No. of poles in motor: if empty: "2 poles", "4": 4 poles
- Frequency: if empty: 50 Hz; "6": 60 Hz
- Motor power: (kW x 10)
- Material: "G": cast iron/Inox; "I": AISI304 (EN 1.4301); "N": AISI316 (EN 1.4401)
- Flanges: "F": round; "T": oval; "V": Victaulic; "C": clamp
- Number of trimmed impellers, if empty: none
- Number of stages/impellers
- Nominal flow in m³/h
- Pump model

Version	Pump body/Hydraulics	EV 1	EV 3	EV 6	EV 10	EV 15	EV 20	EV 30	EV 45	EV 65	EV 95
I	AISI 304 / AISI 304	●	●	●	●	●	●	○	○	○	○
G	CAST IRON / AISI 304							●	●	●	●
N	AISI 316 / AISI 316	●	●	●	●	●	●	●	●	●	●

● = Std. version ○ = Available on request

Flange models	Maximum working pressure [bar]									
	EV 1	EV 3	EV 6	EV 10	EV 15	EV 20	EV 30	EV 45	EV 65	EV 95
T version	16	16	16	16	16	16				
F (PN25), V and C version	26	26	26	26	26	26				
F version (PN16)							16	16	16	16
F version (PN25/40)							32	32	25	25
Maximum inlet pressure (HI)	refer to the tables of hydraulic performance									

The Inlet pressure of the pump plus the pressure inside the pump must not exceed the maximum working pressure.