IONTEC DEPA®

NEW! BEST OF BOTH WORLDS – REDUCED ENERGY CONSUMPTION, BUILT ON ADVANCED DIAPHRAGM PUMP TECHNOLOGY

DEPA IonTec™ - Electrically Operated Double Diaphragm Pumps

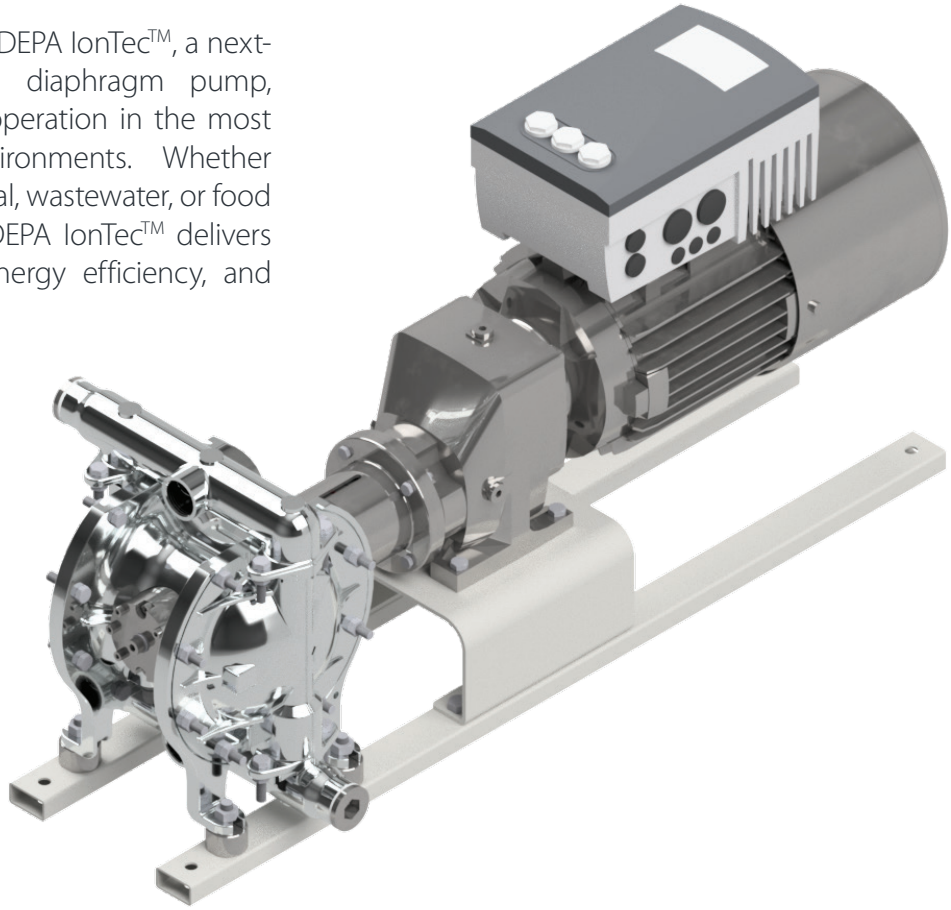
CRANE®

www.depapumps.com
www.cranecpe.com

Features and Benefits

Electrically Powered. Exceptionally Reliable.

We are proud to present the DEPA IonTec™, a next-generation electric double diaphragm pump, engineered for continuous operation in the most challenging industrial environments. Whether you're working in the chemical, wastewater, or food & beverage industries, the DEPA IonTec™ delivers unmatched performance, energy efficiency, and operational reliability.



Features and Benefits

1. **ENERGY EFFICIENCY**
   Maximize energy savings and cut operational costs with every cycle. The DEPA IonTec™ is engineered for minimal power consumption without compromising performance.

2. **EASE OF MAINTENANCE**
   Engineered for simplicity, its modular design and compatibility with shared spare parts from our DEPA® Air Operated Double Diaphragm (AODD) Pumps range make maintenance quick, easy, and cost-effective.

3. **ELIMINATES RISK**
   This seal-less design in combination with closed surface diaphragms, can run dry or against closed valve conditions without damaging pump or environment.

Designed for Demanding Applications

Built to handle aggressive and abrasive media, the DEPA IonTec™ is ideal for:

Chemical Industry
Transferring acids, solvents, and corrosive fluids in production and processing lines.

Wastewater Treatment
Managing sludge, slurry, and contaminated liquids in municipal and industrial facilities.

Food & Beverage
Pumping viscous or shear-sensitive products like sauces, syrups, dairy, and beverage concentrates, while maintaining hygiene and product integrity.

With its electric drive system, the DEPA IonTec™ offers a cleaner, quieter, and more sustainable alternative to traditional air-operated pumps, making it the smart choice for modern fluid handling.

"ION" STANDS FOR ENERGY AND PRECISION AND "TEC" FOR ADVANCED TECHNOLOGY. TOGETHER, DEPA IONTEC™ REPRESENTS THE NEXT GENERATION OF ELECTRIC OPERATED DOUBLE DIAPHRAGM (EODD) PUMPS - EFFICIENT, RELIABLE, AND SMART.

Product Details

Sizes

Type	25 (1")
EH-FS - Aluminum - Stainless Steel Center Block	●
EH-SS - Cast Stainless Steel 316L/ 1.4404 - Stainless Steel Center Block	●
EH-S1S - Cast Electropolished Stainless Steel 316L/ 1.4404 - Stainless Steel Center Block	●

Suction Lift - Solid Size - Weight

Type	EH25-FS	EH25-SS	EH25-S1S
Dry suction height (mWs)	max. 2,5	max. 2,5	max. 2,5
Max. solid size (mm)	10	8	8
Weight (kg)	50	55	55

Types, Materials & Design

Type	Housing material/ Pump chamber	Center block	Standard connections	Diaphragm design
EH-FS	Aluminum	1.4404/ 316L Stainless Steel	1"G	Closed surface with outer-rim design
EH-SS	Cast stainless steel 1.4404/316L	1.4404/ 316L Stainless Steel	1"G	Closed surface with outer-rim design
EH-S1S	Cast stainless steel 1.4404/316L, electropolished	1.4404/ 316L, electropolished	Tri-Clamp ISO	Closed surface with outer-rim design

Temperature

Temperature Range: -25°C to +130°C

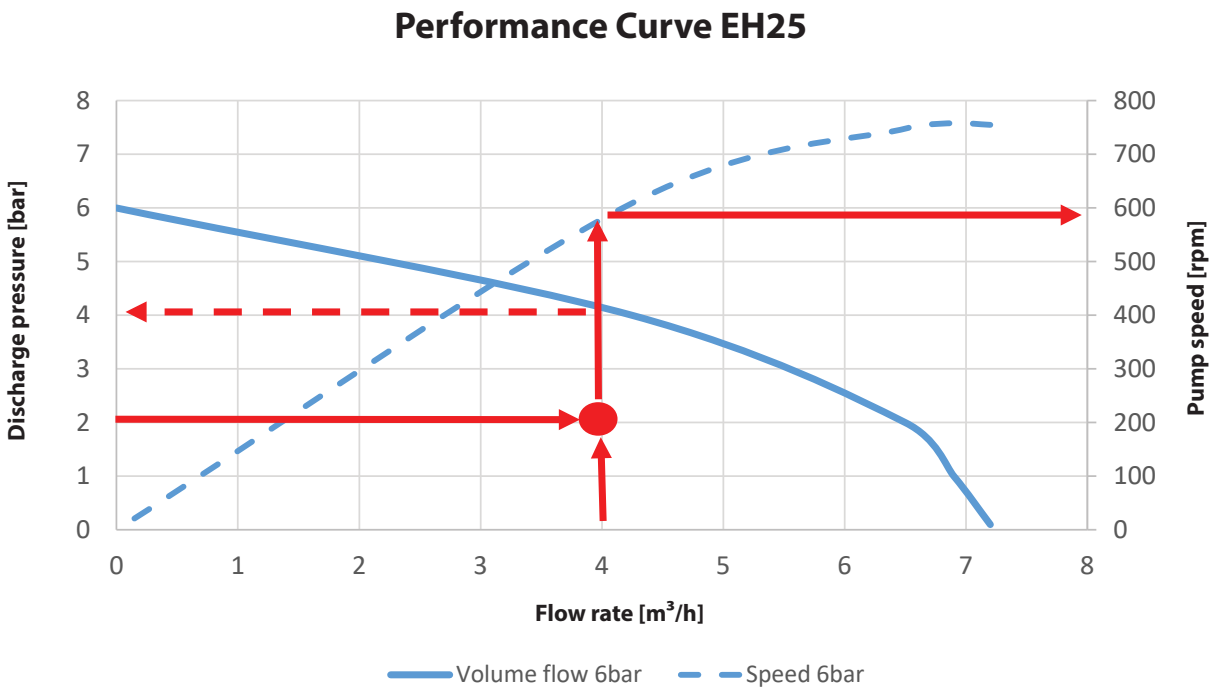
Product wetted interior	Max. Temperature (°C)
DEPA nopped E4, EPDM White	-25 to +90
DEPA nopped E4, EPDM	-25 to +105
DEPA nopped E4, PTFE Compound	-10 to +130
DEPA nopped E4, NBR	-15 to +90
DEPA nopped E4, NRS	-15 to +70
DEPA nopped E4, FKM	-5 to +120

Applied Guidelines

- Machinery Directive 2006/42/EC
- EC 1935/2004, EU 10/2011, FDA

Example for pump selection

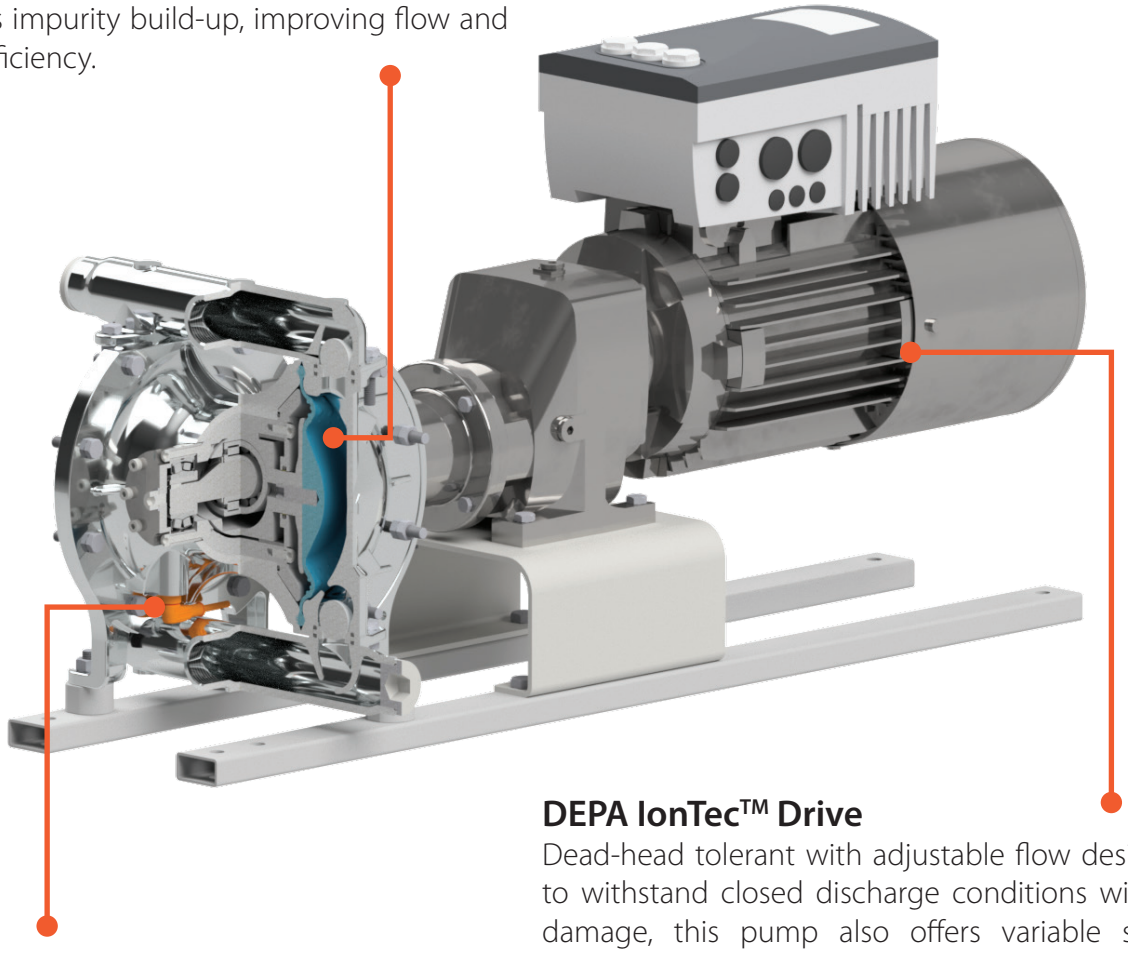
A flow rate of 4 m^3/h is required at a delivery pressure of 2 bar. For this application, pump size EH25 is recommended. The required pump speed is 600 rpm. If the pressure requirement increases to 4 bar, the speed reduction (Dead-Head-Control) begins. When the maximum pressure of 6 bar is reached, the pump stops automatically.



Design Feature

DEPA IonTec™ Closed Surface Diaphragms Series nopped E4®

The innovative design eliminates the outer piston, reducing wear and extending diaphragm life. An integrated insert removes potential leak paths, enhancing safety for users and the environment. Maintenance is tool-free with handtightening, and the modular design ensures full compatibility across all DEPA IonTec™ pumps. A smooth surface minimizes impurity build-up, improving flow and energy efficiency.



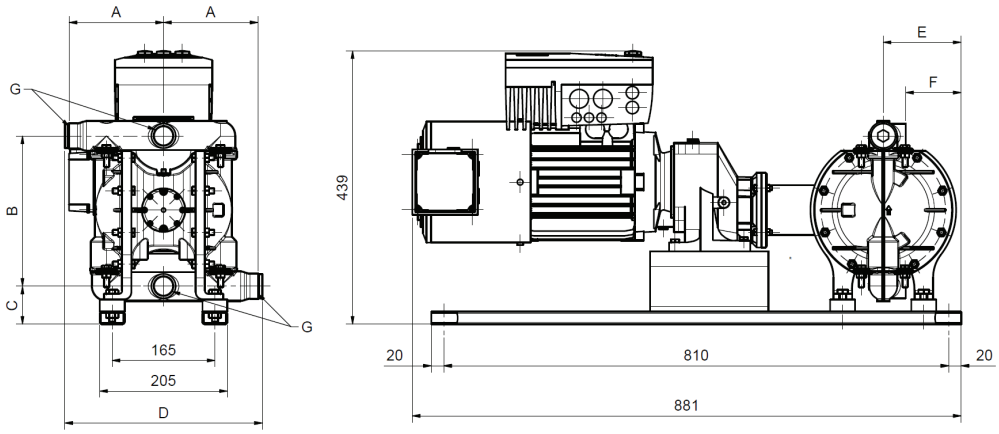
DEPA IonTec™ Diaphragm Leakage Sensors

In the event of diaphragm rupture, the pumped fluid enters the pump chamber and activates the sensor. The sensor then transmits an electrical signal to the monitoring device for evaluation. Upon detection, the control unit disables the power supply to the pump's drive system, thereby halting operation to prevent further damage or leakage.

DEPA IonTec™ Drive

Dead-head tolerant with adjustable flow designed to withstand closed discharge conditions without damage, this pump also offers variable speed control for precise flow adjustment - without the need for complex control systems.

Dimensions



Size	Material	A	B	C	D	E	F	G
25	FS	-	241	61	270	-	89	1"G
25	SS	152	241	61	317	125	89	1"G
25	S1S	152	241	61	317	125	89	TriClamp ISO

CRANE

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