IONTEC DEPA®



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

DEPA® IonTec™ - Electrically Operated Double Diaphragm Pumps

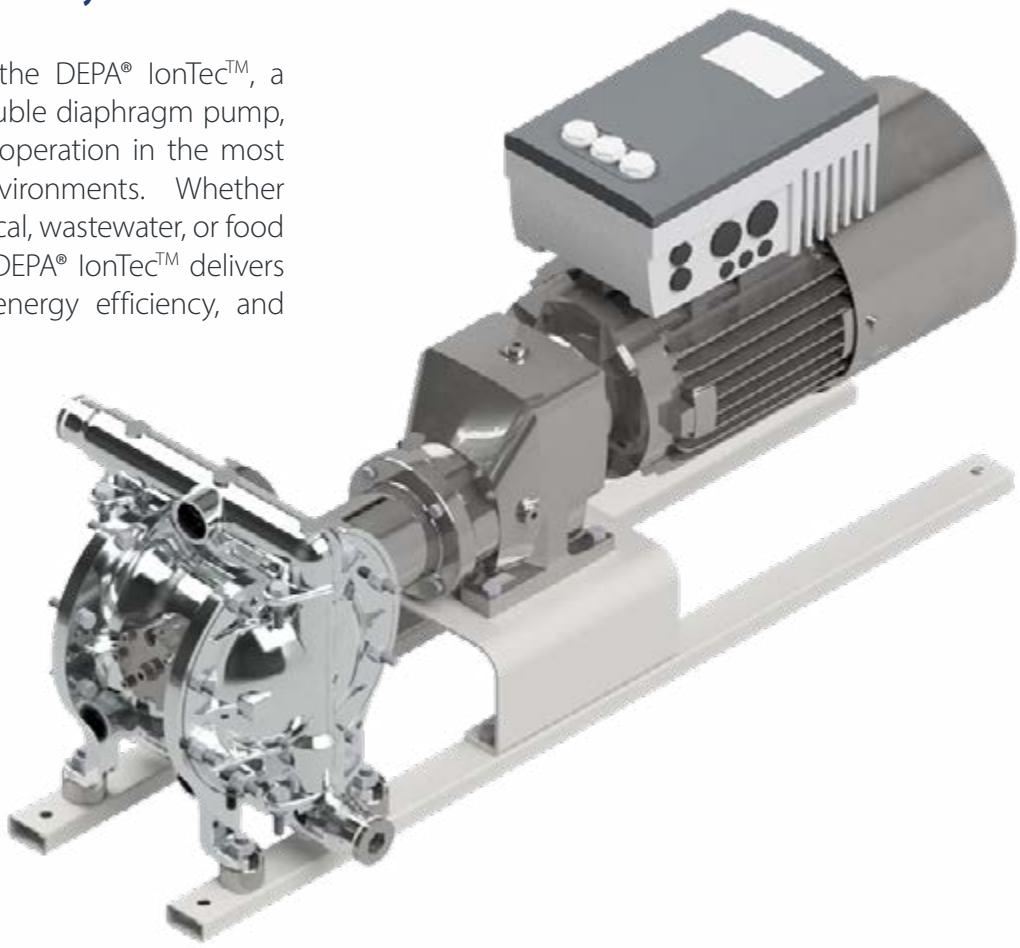
CRANE

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")	50 (2")
EHxx-SS - Cast Stainless Steel 316L/ 1.4404 - Stainless Steel Center Block	●	●
EHxx-S1S - Cast Electropolished Stainless Steel 316L/ 1.4404 - Stainless Steel Center Block	●	●

Suction Lift - Solid Size - Weight

Type	EH25-SS	EH25-S1S	EH50-SS	EH50-S1S
Dry suction height (mWs)	max. 2.0	max. 2.0	max. 3.7	max. 3.7
Max. solid size (mm)	8	8	13	13
Weight (kg)	55	55	228	228

Types, Materials & Design

Type	Housing material/ Pump chamber	Control block	Standard connections	Membrane design
EHxx-SS	Cast stainless steel 1.4404/316L	1.4404/ 316L Stainless Steel	1"G / 2"G	Closed surface outer-rim design
EHxx-S1S	Cast stainless steel 1.4404/316L, electropolished	1.4404/ 316L, electropolished	Tri-Clamp ISO	Closed surface outer-rim design

Temperature

Temperature Range: -25°C to +130°C

Product wetted interior	Max. Temperature (°C)
DEPA® nopped E4, PTFE Compound	-10 to +130

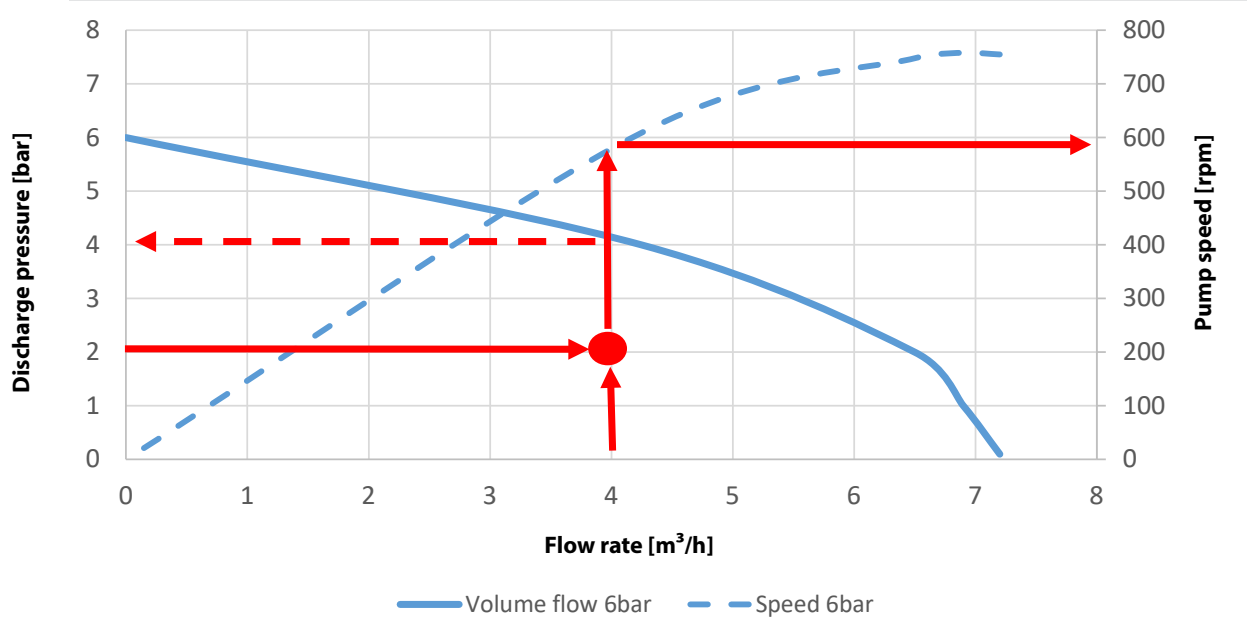
Applied Guidelines

- Directive 2014/34/EU
- Machinery Directive 2006/42/EG
- EC 1935/2004, EU 10/2011, FDA

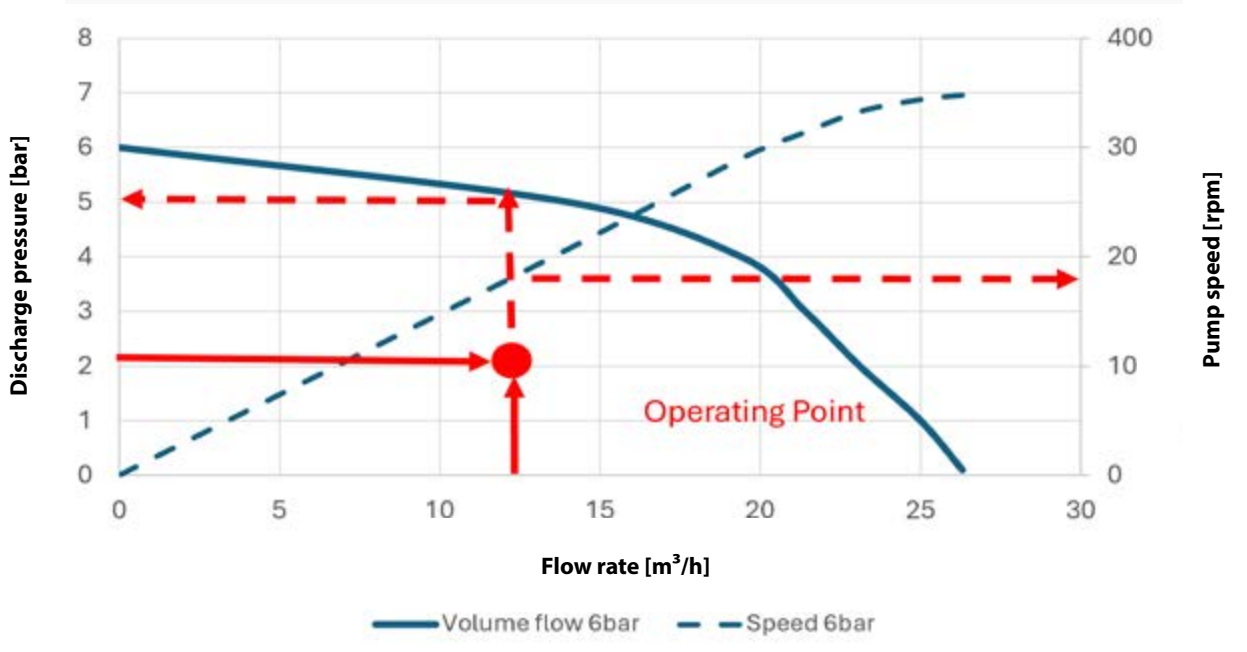
Example for pump selection

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.

Performance Curve EH25



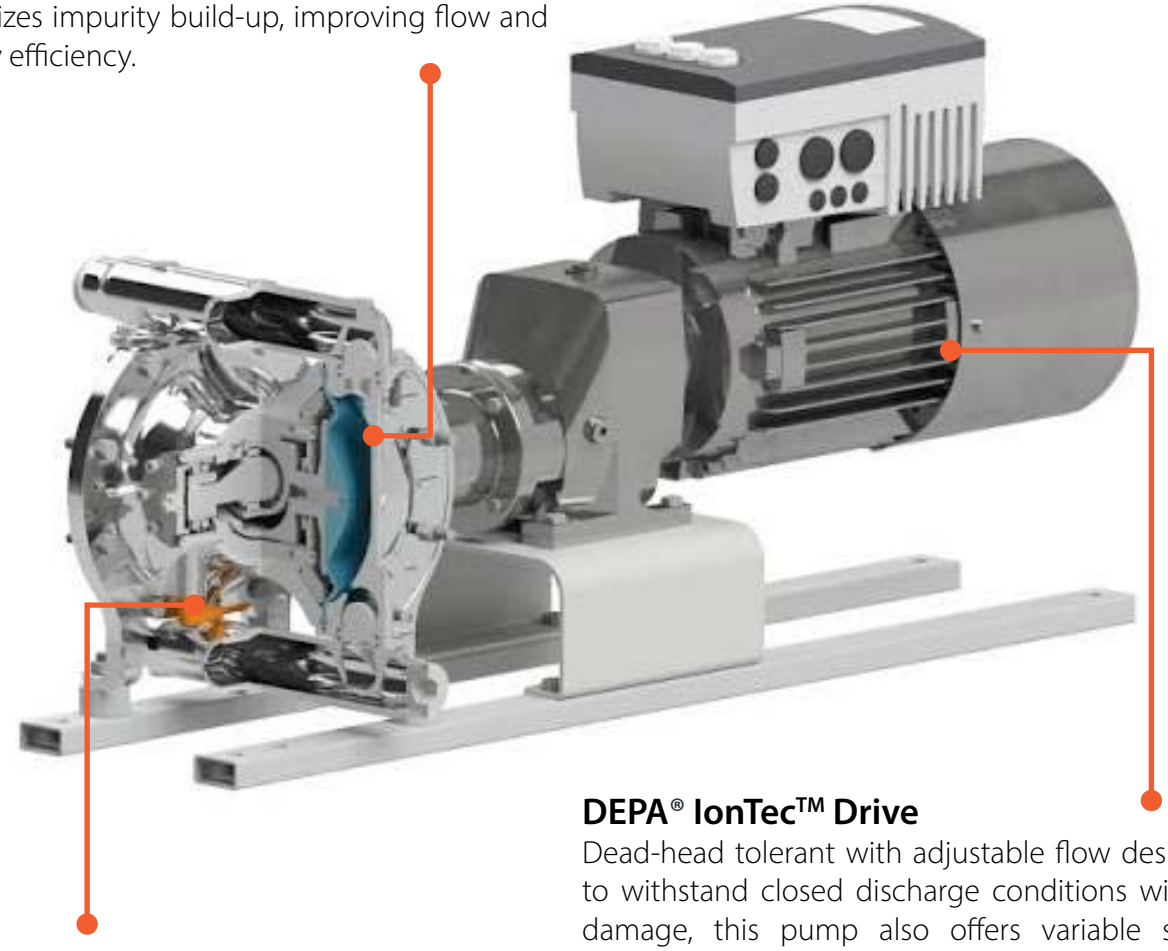
Performance Curve EH50



Design Feature

DEPA® IonTec™ with Closed-Surface-Diaphragms

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.



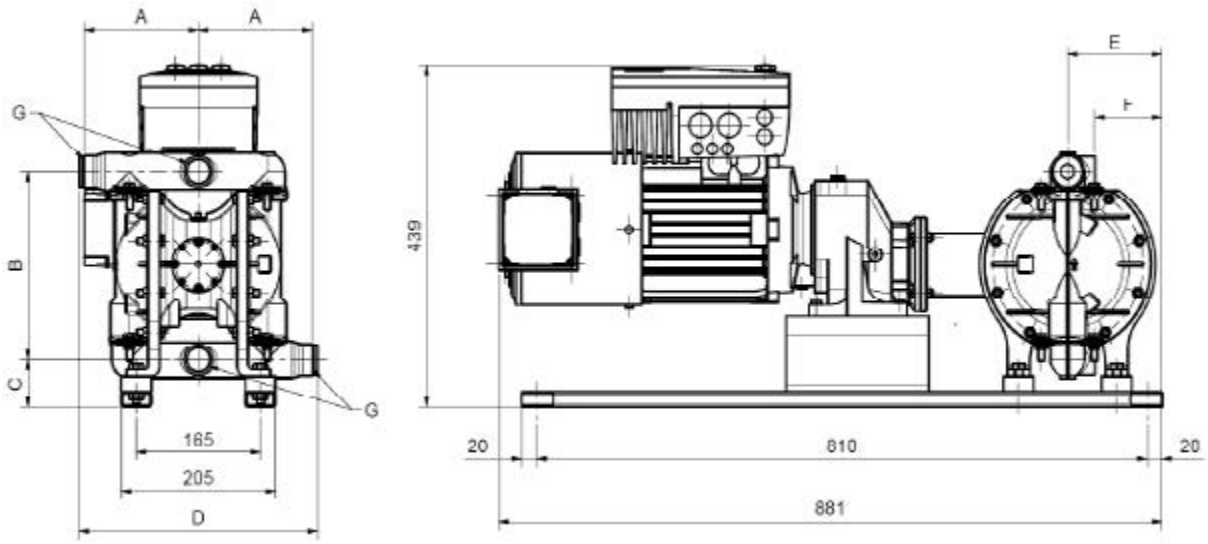
DEPA® IonTec™ Drive

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.

DEPA® IonTec™ Diaphragm Rupture Sensors

In the event of diaphragm rupture, the pumped liquid enters the pump chamber and activates the sensor. The sensor then transmits an electrical signal that is analyzed by the monitoring unit. Upon detection, the control unit deactivates the pump's drive system, halting operation and preventing further damage or leaks.

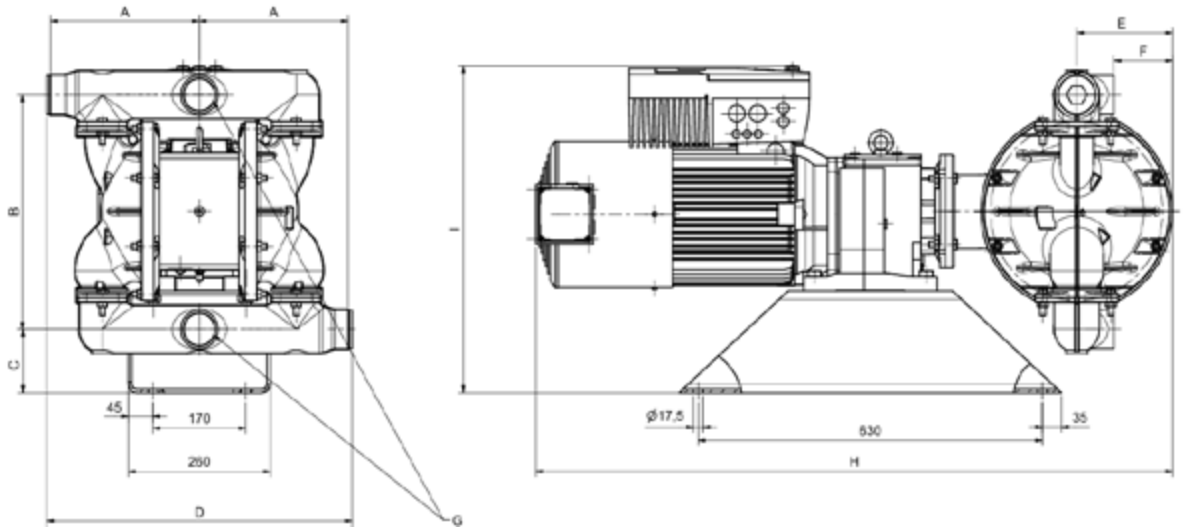
Dimensions



Connection dimensions EH25

Size	Material	ATEX	A	B	C	D	E	F	G	H
25	SS	-	152	241	61	317	125	89	1"G	881
25	SS	3D	152	241	61	317	125	89	1"G	881
25	SS	2G	152	241	61	317	125	89	1"G	1243
25	S1S	-	-	241	61	269	-	9	TriClamp ISO	881
25	S1S	3D	-	241	61	269	-	9	TriClamp ISO	881
25	S1S	2G	-	241	61	269	-	9	TriClamp ISO	1243

Pump dimensions EH25 (mm)



Connection dimensions EH50

Size	Material	ATEX	A	B	C	D	E	F	G	H	I
50	SS	-	273	414	112	559	176	89	2"G	1166	577
50	S1S	-	-	414	112	456	-	0	TriClamp ISO	1166	557
50	SS	2G	273	414	112	559	176	89	2"G	1588	570
50	S1S	2G	-	414	112	456	-	0	TriClamp ISO	1588	570

Pump dimensions EH50 (mm)

CRANE

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