FLOWROX
Proven Performance

Progressive Cavity Pump, E-series

TECHNICAL DATA SHEET

The Flowrox progressive cavity (PC) pumps' E-series is designed for various industrial applications. Due to its technical features high efficiency and high pressure are achieved with a short construction. It also requires less energy, is easy to install, and requires less maintenance resulting in very low Total Cost of Ownership (TCO).

GENERAL

The Flowrox E-series progressive cavity pumps were conceived by utilizing Flowrox's extensive experience in progressing cavity pump service and spare parts production as well as the knowledge gained from our innovative peristaltic pump range. Flowrox is the industry benchmark for abrasive, corrosive, other demanding shut-off, control, and pumping applications.

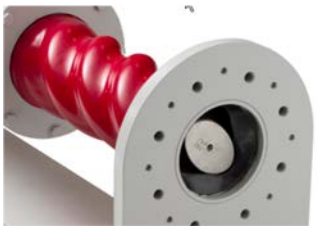
BENEFITS

The precise 2/3-lobe rotor and Spiral stator technology allows a rigid and tighter pumping unit, which enables 10 bar pressure per stage and excellent efficiency. With this revolutionary technology, higher output is achieved with lower rpm cycles of the rotor. Lower cycles lead to lower friction and wearing of rotors and stators.

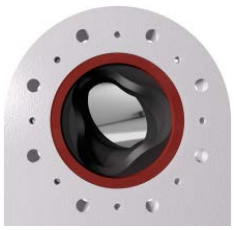
Easy installation, usage, and maintenance have been taken into account in the pump's structure. The direction of pump's suction connection can be adjusted over 180 degrees and change of main sealing mechanics is quick and easy.

With Flowrox PC pump's built-in advantages, the customer's actual savings both in energy consumption, installation and maintenance costs results in decreasing the Total Cost of Ownership (TCO) and providing higher plant availability.

In the block-model framed E-series pumps the bearings are inside the gear, not in the pump's body. A single mechanical main seal is often used in E-series pumps, but if the application is more demanding, double mechanical main seal is also available.



Spiral stator enables higher pressure per stage



2/3-lobe elliptic rotor enables higher flow rate

Benefits and Features

- Low life cycle costs (TCO) [EUR/m^3]
- High efficiency
- Higher pressure due to 1-stage construction (10 bar)
- Easy and quick installation
  - Over 180° stepless adjustment of the suction flange direction
- User-friendly and easy maintenance
  - Long service interval
  - Quick replacement of the mechanical shaft seal

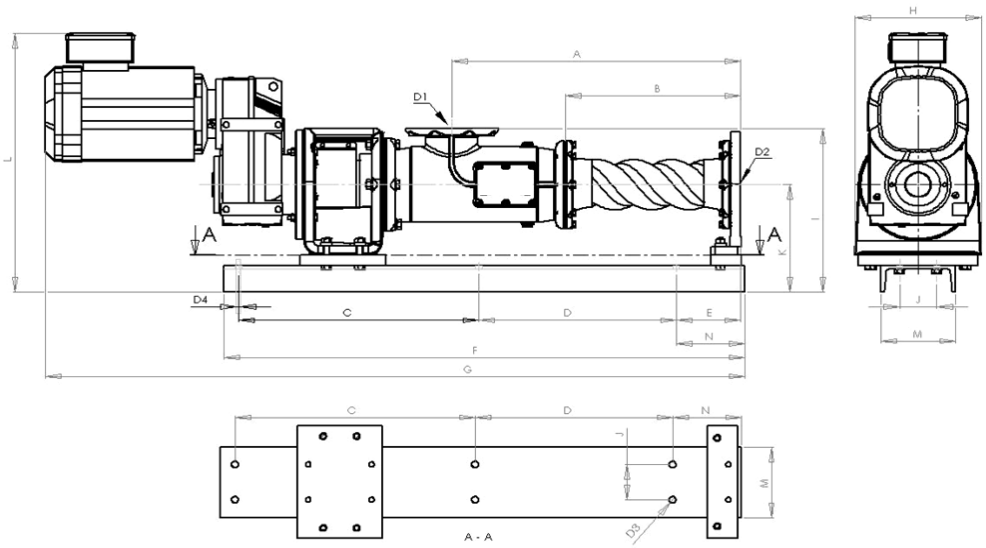
Applications

- Energy and Environment
- Water and Waste Water Treatment
- Pulp and Paper
- Mining and Minerals
- Chemical / Biochemical Industry
- Oil and Gas
- Dyeing Industry
- Food, brewery and beverage industry
- Agricultural Industry and Solutions
- Sugar Industry
- Wood Processing
- Construction Industry
- Other Industrial Solutions

Product specification

Material alternatives:	Drive:	Shaft sealing:
Bearing unit: • Cast Iron Suction Pipe: • Stainless steel Rotor: • Stainless steel hard coated • Stainless steel • Carbon steel hard coated Stator • NBR Base Plate • Carbon steel	• Gear motor drive	• Single Mechanical Shaft Seal • Double Mechanical Shaft Seal • Gland Packing

MAIN DIMENSIONS



Model	A	B	C	D	E	F	G*	H*	I	J	K	L*	M	N	Weight (kg)	D1, D2	ØD3	D4
E2/10	433	229	765	-	117,5	940	1128	300	368	80	240	405	160	130	110	DN50	18	M16
E4/10	433	229	765	-	117,5	940	1273	300	368	80	240	509	160	130	135	DN65	18	M16
E10/10	519	315	440	440	117,5	1060	1372	324	380	80	240	496	160	130	178	DN80	18	M16
E20/10	698	395	560	560	122,5	1300	1729	340	420	100	260	566	200	135	273	DN100	18	M16
E35/10	774	471	645	530	172.5	1400	1878	340	465	100	305	733	200	185	353	DN125	18	M16
E70/10	862	569	690	690	122,5	1550	2254	405	515	280	355	924	360	130	632	DN150	24	M20
E150/10	993	615	810	810	168,5	1850	2683	555	647	400	460	1240	500	170	1360	DN200	28	M24
E250/10	1128	675	960	960	180,5	2170	2926	665	760	400	540	1320	500	190	2303	DN250	28	M24

** = Normative dimensions. Dimensions are in mm.*

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