FLOWROX
Proven Performance

Progressive Cavity Pump, C-series

TECHNICAL DATA SHEET

The Flowrox progressive cavity (PC) pumps' C-series is designed for the most demanding industrial slurry and paste pumping applications. Due to its unique features and patented design, high efficiency and high pressure are achieved with a short construction. It is easy to install and requires less energy and maintenance resulting in very low Total Cost of Ownership (TCO).

GENERAL

The Flowrox C-series progressing 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 and other demanding shut-off, control and pumping applications.

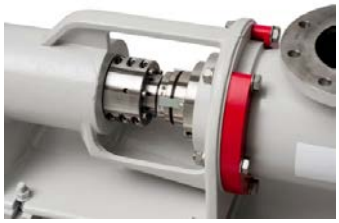
BENEFITS

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 pump's structure, e.g. the direction of pump's suction connection can be adjusted stepless and change of seals is quick and easy. The direction of the pump's suction connection can be adjusted over 180 degrees and change of sealing mechanics is quick and easy.

With Flowrox PC pump's built-in advantages the customer's actual savings both in energy consumption and in installation as well as maintenance costs result in the total cost of ownership decreasing and higher plant availability.

PATENTED TECHNOLOGY



The most common failure in pumps is caused by problems in shaft sealing. Flowrox utilizes a one of a kind, patented main seal removal system allowing the mechanical shaft seal to be replaced quickly and without dismantling the entire pump.

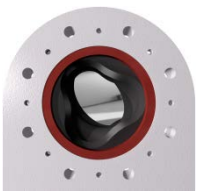
Benefits and Features

- 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

- Pulp and paper
- Mining and Minerals
- Chemical / Biochemical Industry
- Energy and Environment
- Oil and Gas
- Dyeing industry
- Water and waste water treatment
- Food, brewery and beverage industry
- Sugar Industry
- Wood Processing
- Construction Industry
- Agricultural Industry and solutions
- Other industrial solutions

Spiral stator allows higher pressure per stage

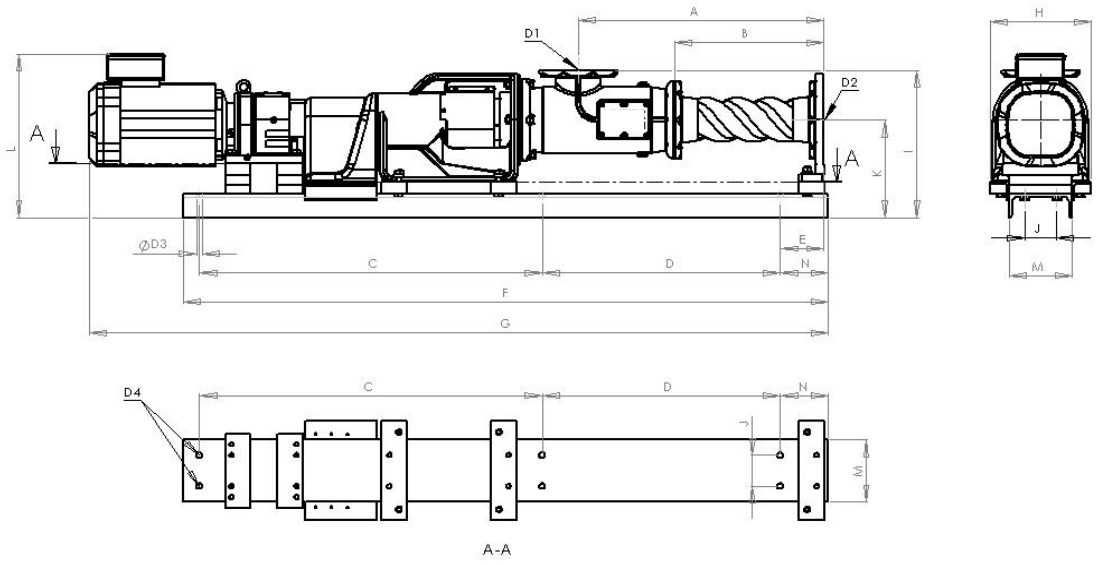


2/3-lobe elliptic rotor allows higher flow rate

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 with coupling	• 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
C2/10	433	229	680	410	118	1250	1505	287	338	80	210	298	160	130	136	DN50	18	M16
C4/10	433	229	725	420	118	1300	1584	309	338	80	210	307	160	130	150	DN65	18	M16
C10/10	519	315	800	500	118	1450	1747	319	350	80	210	319	160	130	190	DN80	18	M16
C20/10	698	395	920	710	118	1800	2155	363	420	100	260	389	200	130	300	DN100	18	M16
C35/10	774	471	1080	750	138	2030	2327	320	475	100	315	527	200	150	416	DN125	18	M16
C70/10	862	569	1080	1080	123	2330	2716	320	515	280	355	596	360	130	647	DN150	24	M20
C150/10	993	615	1310	1310	179	2860	3303	400	647	400	460	722	500	180	1497	DN200	28	M24
C250/10	1128	675	1490	1490	189	3230	3797	500	760	400	540	904	560	190	2342	DN250	28	M24

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

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