Metso

Progressive cavity pumps

Reliable pumping of difficult media



Metso progressive cavity pumps are designed for applications involving viscous, corrosive and difficult-to-handle media. The pump design delivers smooth, low-pulsation flow while helping preserve product quality and support reliable operation.

Handles difficult media
Many pumping applications require consistent flow, gentle product handling and reliable performance. Progressive cavity pumps operate by continuously moving media through cavities formed between the rotor and stator, delivering smooth flow with minimal pulsation.
Designed for viscous, abrasive, corrosive and shear-sensitive media, the pumps help preserve product characteristics throughout the process. The pumping principle minimizes mixing and shearing, making the pumps well suited for applications where product quality is critical.

Engineered for performance
The E and EL series incorporate Evenwall® stator technology and optimized 2/3 rotor geometry to improve pumping efficiency and extend component life. Depending on the application, the design can deliver up to 30% higher flow rates and up to 15% lower energy consumption compared with conventional progressive cavity pump designs.
The combination of low-pulsation flow, efficient operation and long rotor and stator life helps lower operating costs while supporting reliable process performance.

Product series
E-series: Designed for industrial process applications and paste transfer duties.
EL-series: Designed for wastewater and municipal applications requiring reliable solids handling.
D-series: Designed for accurate chemical and flocculant dosing applications.

Typical applications
- Paper coating and paste pumping
- Sludge transfer
- Adhesives, pigments
- Filter feed
- Gland seal water service

Benefits
- Low-pulsation flow
- No mixing or shearing
- Long rotor and stator life
- Up to 30% higher flow rates*
- Up to 15% lower energy consumption*
- Reliable operation with difficult media

*Compared to conventional progressive

E, EL and D series

Smooth flow for a wide range of applications

Multiple pump series are available to match pump performance to specific process requirements.

	E-series								EL-series				D-series			
	E2/10	E4/10	E10/10	E20/10	E35/10	E70/10	E150/10	E250/10	EL50/6	EL100/6	EL200/6	EL330/6	D004/12	D01/12	D025/12	D075/12
Key technical specifications																
Weight kg	110	135	180	270	350	630	1360	2300	325	543	1121	1913	14	14	15	17
Weight lb	242	297	397	595	771	1389	2998	5070	716	1197	2469	4217	31	31	33	37
Maximum flow m^3/h	1.5	2.9	7.6	15.4	26.6	57.6	112.7	170	38.1	85.2	181.6	268.8	0.1	0.2	0.5	1.5
Maximum flow gpm	6.6	12.7	33.4	67.7	117.0	253.2	495.8	747.9	167.4	374.9	798.7	1181	0.4	0.8	2.2	6.6
Maximum pressure bar	10	10	10	10	10	10	10	10	6	6	6	6	12	12	12	12
Maximum pressure psi	150	150	150	150	150	150	150	150	87	87	87	87	174	174	174	174
Maximum viscosity	30000 cp								30000 cp				-	-	-	-
Motor power kW	1.5	3	3	7.5	11	30	75	90	11	15	30	55	0.37	0.37	0.55	1.1
Motor power hp	2	4	4	10	15	40	100	100	15	20	40	70	0.5	0.5	0.75	1.5

Available stator materials
- EPDM (ethylene propylene)
- NBR (nitrile rubber)

Available auxiliary equipment
- Platform
- Pressure transmitter
- Inspection hatch

Available rotor materials
- Carbon steel
- Stainless steel
- Hard chromium coating
- Tungsten carbide coating

Services and support

Metso supports the progressive cavity pump range with:
- Spare and wear parts
- Maintenance support
- Technical support
- Lifecycle services

These services help maximize equipment availability and support reliable long-term operation.

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