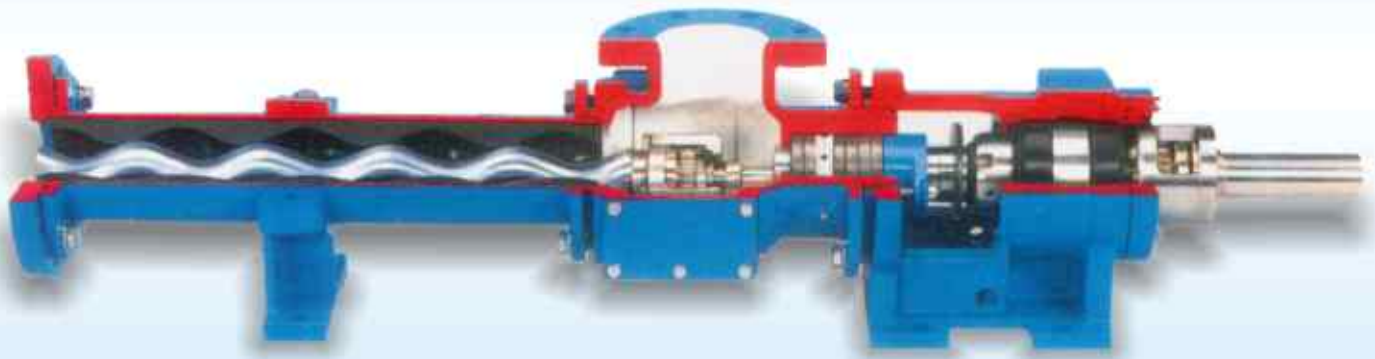


Sando Progressive cavity Positive Displacement Screw Pumps

Sando backed by two decades of technical expertise in the process industries has the answer for all the fluid handling problems.

WORKING PRINCIPLE OF SCREW PUMP

Sando Positive Displacement Screw Pumps consists of screw as rotor which revolves in a double threaded stator of resilient electro metric material. While in operation, the rotor rotates within the stator creating cavity progressively from the suction to discharge ends with a sealing line between suction and discharge. Fluid entering the cavity thus convey positively and progressively.



Unparalleled Performance Characteristics and Features

Take a look at some of the many performance characteristics and features of Sando progressing cavity pumps:

- Low total cost of ownership
- Positive displacement
- Non-pulsating flow
- Accurate, repeatable flow
- Head independent of pump speed
- Low NPSH requirement
- Self-Priming
- High suction lift to 28 feet
- Low shear
- Particles to 1" in diameter
- Reversible
- Viscosities to 100000 cps
- No valves to clog, stick or vapor lock
- No timing gear adjustments
- High volumetric and mechanical Efficiency
- Smooth fluid discharge
- No vibration
- Easy to maintain
- Wide temperature range to 400° F
- Ideal for metering application
- Easy to regulate
- Superior abrasion resistance

Two Decades of Experience with Quality & Reliability

Single Stage Screw Pumps

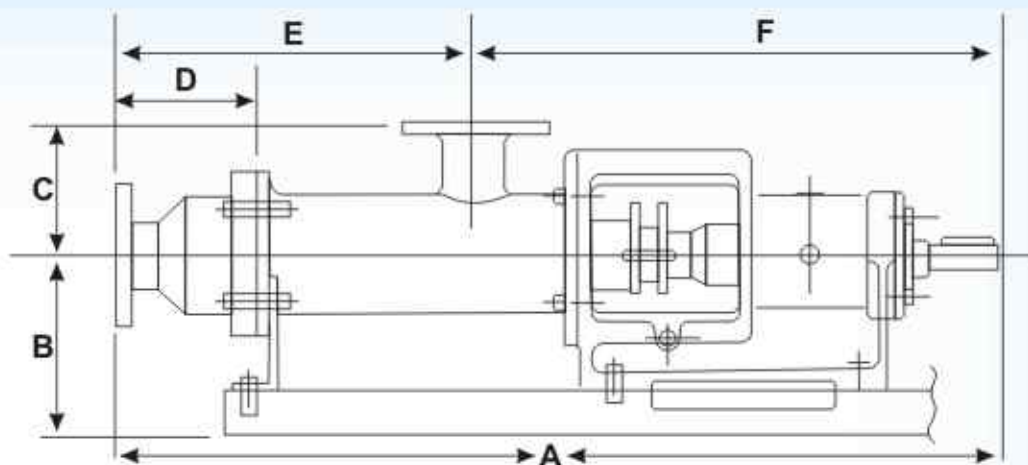
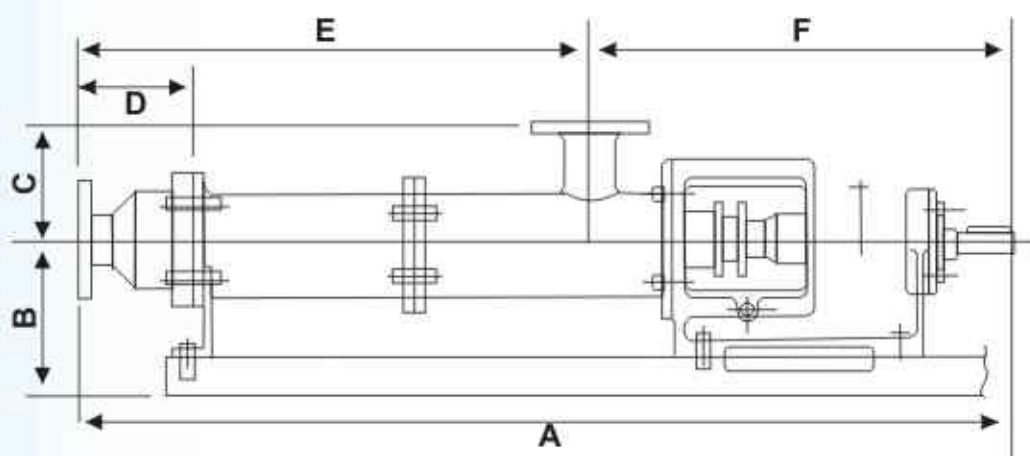


TABLE : A

Pump Model	A	B	C	D	E	F
SD/CES- 1/20/12	405	73	82	63	145	260
SD/CES- 2/25/32	520	88	88	98	209	311
SD/CES- 2/25/50	533	88	88	98	222	311
SD/CES- 4/40/80	660	105	100	114	263	397
SD/CES- 4/40/120	725	105	100	114	315	410
SD/CES- 5/50/200	857	127	100	127	362	495



Single Stage Screw Pumps

TABLE : B

Pump Model	A	B	C	D	E	F
SD/CES- 6/60/315	1120	127	127	152	610	510
SD/CES- 6/80/415	1120	127	127	152	610	510
SD/CES- 7/80/690	1350	168	145	152	690	660
SD/CES- 8/100/850	1445	168	165	152	788	657

SPECIAL FEATURES

- ❖ Most advanced and versatile
- ❖ Self priming with powerful suction
- ❖ Wide range of viscosities and specific gravities
- ❖ Wide range of flows and pressures
- ❖ Low internal velocity
- ❖ High tolerance of entrained air and gases
- ❖ High tolerance of contamination
- ❖ Extremely rugged and reliable design
- ❖ Simple to install
- ❖ Easy to maintain
- ❖ Inexpensive to run

APPLICATION

- CHEMICAL INDUSTRY** : For conveying and proportionating acids, sludges, viscous pastes, sensitive plastic dispersions and suspensions, viscous adhesives etc.
- MINING INDUSTRY** : As sinking pumps, sump pumps, floatation sludge pumps etc.
- PAPER INDUSTRY** : For conveying paper pulp, glue, coatings, pastes and fibrous material.
- SUGAR INDUSTRY** : For molasses, concentrated waste water, Sludge, and saturated sludge.
- FOOD BEVERAGE INDUSTRY** : For heavy peanut butter, jam, pasty fruits, vegetables, fruit juice and concentrate grape smash, yeast, wine beer etc.
- DAIRY INDUSTRY** : For milk, cream, cheese, curd etc.
- PAINT & LACQUER INDUSTRY** : For handling pigments, paints, dyes, lacquer, and solvents.
- SEWAGE WATER PURIFICATION & EFFLUENT TREATMENT PLANTS** : For handling waste water, settled sludge, sediment water, sludge circulation, activated sludge and other industrial effluents.
- CIVIL ENGINEERING INDUSTRY** : For Cement water, sand mixture, cement slurry, bentonite, tar and bitumen.

CONSTRUCTION FEATURES

- **Pump Housing:** Grey cast iron, Rubberlined, stainless steel and thermoplastic.
- **Rotor:** Hardened Steel, stainless steel, alloys steel, hard chrome plated and thermoplastic.
- **Rotating Parts:** Chrome steel, stainless steel and alloy steel.
- **Stator:** Neoprene, Nitrile viton, Hepalon Rubber.
- **Shaft Sealing:** Plaited packings like asbestos, virgin teflon, single and double mechanical shaft seal.
- **Drive:** AC and DC electric motor, geared motor and mechanical variator.
- **End Connections:** flange ends to DIN standard, ASA, BS & screwed ends.
- **Mounting:** Horizontal, vertical and trolley mounted.

Sando Progressive cavity Positive Displacement Screw Pumps

(Single Stage Capacity Lit/Hr.)

MODEL	SIZE MM	SPEED RPM	TOTAL DISCHARGE HEAD (METER)													
			0	10	20	30	40	50	60							
			H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.							
SD/CES. 0/15 (5.5)	15	800	260	0.50	250	0.50	230	0.50	210	0.50	200	0.50	175	0.50	150	0.50
		1000	325		310		290		275		250		240		220	
		1200	390		375		355		335		315		300		255	
		1400	490	▼	465	▼	450	▼	430	▼	405	▼	480	▼	370	▼
SD/CES. 1/20 (12)	20	800	460	0.50	440	0.50	420	0.50	400	0.50	370	0.50	350	0.50	330	0.50
		1000	570		550		530		500		480		460		440	
		1200	690		660		640		610		590		560		540	
		1400	800	▼	770	▼	570	▼	720	▼	690	▼	670	▼	640	▼
SD/CES. 2/25 (32)	25	800	1080	0.75	1060	0.75	1040	0.75	1000	1.00	980	1.00	950	1.00	900	1.00
		1000	1340		1320		1300		1260		1240		1230		1180	
		1200	1620		1600		1580		1540		1500		1470		1440	
		1400	1880	▼	1860	▼	1840	▼	1800	▼	1760	▼	1720	▼	1700	▼
SD/CES. 2/25 (32)	25	600	900	0.75	860	0.75	800	0.75	760	1.00	700	1.00	660	1.00	620	1.00
		800	1200		1160		1100		1060		1020		960		920	
		1000	1500		1460		1400		1360		1320		1260		1220	
		1200	1800		1740		1700		1660		1620		1560		1520	
		1400	2100	▼	2060	▼	2000	▼	1960	▼	1900	▼	1860	▼	1840	▼
SD/CES. 4/40 (80)	40	400	1300	1.50	1200	1.50	1100	1.50	1000	2.00	900	2.00	850	2.00	750	2.00
		600	1950		1850		1700		1600		1500		1400		1300	
		800	2600		2450		2350		2200		2100		2000		1900	
		1000	3250	▼	3100	▼	2950	▼	2800	▼	2700	▼	2600	▼	2450	▼
SD/CES. 4/40 (120)	40	400	2875	2.00	2750	2.00	2675	2.00	2550	3.00	2500	3.00	2375	3.00	2250	3.00
		500	3625		3500		3375		3250		3175		3050		3000	
		600	4325		4250		4125		4000		3875		3750		3625	
		700	5000	▼	4950	▼	4800	▼	4700	▼	4625	▼	4500	▼	4375	▼
SD/CES. 5/50 (200)	50	400	4300	2.00	4100	2.00	3900	3.00	3600	3.00	3400	3.00	3200	3.00	3000	3.00
		500	5400		5200		4900		4700		4500		4300		4000	
		600	6500		6300		6000		5700		5500		5300		5000	
		700	7500	▼	7300	▼	7000	▼	6700	▼	6500	▼	6300	▼	6000	▼
SD/CES. 6/60 (315)	65 OR 80	300	5200	3.00	4900	3.00	4600	3.00	4400	5.00	4200	5.00	3900	5.00	3600	5.00
		400	6900		6600		6300		6000		5600		5400		5100	
		500	8600		8300		8000		7600		7300		7000		6600	
		600	10300	▼	10000	▼	9700	▼	9300	▼	8900	▼	8400	▼	8000	▼
SD/CES. 6/80 (415)	80	300	6400	3.00	6200	3.00	6000	5.00	5800	5.00	5600	5.00	5200	5.00	5000	5.00
		400	8400		8200		8000		7800		7600		7200		6800	
		500	10600		10400		10000		9800		9400		9000		8200	
		600	12800	▼	12400	▼	12000	▼	11800	▼	11400	▼	11000	▼	10400	▼
SD/CES. 7/80 (690)	80	300	12500	5.00	12000	5.00	11500	5.00	11000	5.00	10500	7.50	10000	7.50	9500	7.50
		400	16500		16000		15250		14750		14250		13750		13000	
		500	20750		20000		19280		18500		17750		17250		16500	
		600	25000	▼	23180	▼	23000	▼	22250	▼	21500	▼	20750	▼	20000	▼
SD/CES. 8/100 (850)	100	300	15200	5.00	14400	5.00	13600	7.50	12400	7.50	11600	7.50	10800	10.00	9600	10.00
		400	20400		19600		18400		17200		19500		15200		14400	
		500	25600		24400		28200		22000		21200		20000		19200	
		600	30800	▼	29600	▼	28400	▼	27200	▼	26000	▼	24800	▼	23600	▼

Double Stage and four stage units are also available



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