

KUDU PCP

Complete Progressing Cavity Pump Systems



Experience excellence. Expect reliability.

- Sustain lower operating and capital costs
- Maintain high production rates in solids and high viscosity fluids
- Proven performance in light to heavy oil, thermal (SAGD & CSS), dewatering and coal bed methane operations

Bringing solutions to the surface since 1989.



KUDU Progressing Cavity Pumps

Series	Model	Displacement Rate at 500rpm at zero head		Displacement Rate at 100rpm at zero head		Pressure rating in meters of H ₂ O column	Pump O.D. (with collars)		Pump Stator Length	
		m ³ /d	bfpd	m ³ /d	bfpd		mm	in	m	ft
2 3/8"	15 TP 600	16	97	3.1	19	600	71	2.80	0.90	2.94
	15 TP 1200	16	97	3.1	19	1200	71	2.80	1.80	5.91
	15 TP 2400	16	97	3.1	19	2400	78	3.07	3.60	11.81
	30 TP 650	27	170	5.4	34	650	71	2.80	1.31	4.30
	30 TP 1300	27	170	5.4	34	1300	78	3.07	2.61	8.56
	30 TP 2000	27	170	5.4	34	2000	78	3.07	3.92	12.84
	30 TP 2600	27	170	5.4	34	2600	78	3.07	5.22	17.13
	80 TP 800	85	535	17	107	800	69	2.70	3.65	11.98
	80 TP 1200	85	535	17	107	1200	69	2.70	5.50	18.04
	80 TP 1600	85	535	17	107	1600	69	2.70	7.35	24.11
80 TP 2000	85	535	17	107	2000	69	2.70	9.20	30.18	
2 7/8"	60 TP 650	66	415	13.2	83	650	80	3.15	1.74	5.71
	60 TP 1300	66	415	13.2	83	1300	80	3.15	3.48	11.42
	60 TP 1600	66	415	13.2	83	1600	80	3.15	4.35	14.27
	60 TP 2000	66	415	13.2	83	2000	80	3.15	5.22	17.13
	60 TP 2600	66	415	13.2	83	2600	80	3.15	6.97	22.87
	60 TP 3300	66	415	13.2	83	3300	80	3.15	8.70	28.54
	100 TP 600	108	679	21.6	136	600	86	3.39	2.61	8.56
	100 TP 1200	108	679	21.6	136	1200	94	3.70	5.22	17.14
	100 TP 1500	108	679	21.6	136	1500	94	3.70	6.53	21.42
	100 TP 1800	108	679	21.6	136	1800	94	3.70	7.83	25.69
	100 TP 2400	108	679	21.6	136	2400	94	3.70	10.46	34.33
	240 TP 600	244	1535	48.8	307	600	94	3.70	5.22	17.13
	240 TP 900	244	1535	48.8	307	900	94	3.70	7.83	25.69
	3 1/2"	120 TP 1300	120	755	24	151	1300	108	4.24	4.06
120 TP 2000		120	755	24	151	2000	108	4.24	6.10	20.01
120 TP 2600		120	755	24	151	2600	108	4.24	8.14	26.71
120 TP 3300		120	755	24	151	3300	108	4.24	10.17	33.37
160 TP 1200		160	1006	32	201	1200	102	4.00	4.32	14.18
160 TP 1500		160	1006	32	201	1500	102	4.00	5.76	18.90
160 TP 2200		160	1006	32	201	2200	102	4.00	8.64	28.35
200 TP 1200		194	1220	38.8	244	1200	108	4.24	5.50	18.04
200 TP 1500		194	1220	38.8	244	1500	108	4.24	6.88	22.56
200 TP 1800		194	1220	38.8	244	1800	108	4.24	8.25	27.07
200 TP 2400		194	1220	38.8	244	2400	108	4.24	11.00	36.09
300 TP 800		300	1887	60	377	800	108	4.24	5.50	18.04
300 TP 1200		300	1887	60	377	1200	108	4.24	8.25	27.07
300 TP 1600		300	1887	60	377	1600	108	4.24	11.00	36.09
4"	180 TP 1000	180	1132	36	226	1000	109	4.29	2.91	9.55
	180 TP 2000	180	1132	36	226	2000	120	4.74	5.82	19.11
	180 TP 3000	180	1132	36	226	3000	120	4.74	8.73	28.64
	225 TP 1600	225	1415	45	283	1600	120	4.74	5.82	19.11
	225 TP 2400	225	1415	45	283	2400	120	4.74	8.74	28.66
	300 TP 600	300	1887	60	377	600	109	4.29	2.91	9.55
	300 TP 1200	300	1887	60	377	1200	120	4.72	5.82	19.09
	300 TP 1500	300	1887	60	377	1500	120	4.72	7.28	23.87
	300 TP 1800	300	1887	60	377	1800	120	4.72	8.73	28.64
	300 TP 2400	300	1887	60	377	2400	120	4.72	11.64	38.19
	400 TP 900	400	2516	80	503	900	120	4.72	5.82	19.09
	400 TP 1350	400	2516	80	503	1350	120	4.72	8.73	28.64
	400 TP 1800	400	2516	80	503	1800	120	4.72	11.64	38.19
	500 TP 800	491	3084	100	629	800	120	4.72	5.76	18.90
	500 TP 1200	491	3084	100	629	1200	120	4.72	8.64	28.35
	500 TP 1600	491	3084	100	629	1600	120	4.72	11.52	37.80
	600 TP 600	600	3774	120	755	600	120	4.72	5.82	19.09
	600 TP 900	600	3774	120	755	900	120	4.72	8.73	28.64
	600 TP 1200	600	3774	120	755	1200	120	4.72	11.64	38.19
	600 TP 1500	600	3774	120	755	1500	120	4.72	14.55	47.74
800 TP 400	870	5472	174	1094	400	120	4.72	5.82	19.09	
800 TP 600	870	5472	174	1094	600	120	4.72	8.73	28.64	
800 TP 800	870	5472	174	1094	800	120	4.72	11.64	38.19	
5"	750 TP 800	750	4718	150	944	800	138	5.43	5.66	18.57
	750 TP 1200	750	4718	150	944	1200	138	5.43	8.49	27.85
	1000 TP 860	1085	6825	217	1365	860	138	5.43	8.49	27.85
	1000 TP 1150	1085	6825	217	1365	1150	138	5.43	11.32	37.14
	1000 TP 1450	1085	6825	217	1365	1450	138	5.43	14.15	46.42



Additional pump models are available. Please contact your KUDU representative for recommendations. Please see Special Clearance Pumps for additional O.D.'s. Pressure ratings are based on actual bench tests. Tough Coat Rotors also available.

Rotor Selection Guide

15	30	80	60	100	120	160	200	300	180	225	300	400	500	600	800	750**	1000*	1000**	PUMP MODEL
3.1	5.4	17	13.2	21.6	24	32	38.8	60	36	45	60	80	100	120	174	150	200	200	M ³ /DAY @ 100 RPM
19	34	107	83	136	151	201	244	377	226	283	377	503	629	755	1094	944	1258	1258	BBL/DAY @ 100 RPM

2 3/8" 2 7/8" 3 1/2" 4" 5"

R O T O R O P T I O N S

SERIES

* 3 1/2" or larger tubing required. ** 4" or larger tubing required.

All technical specifications are deemed accurate, but situations may arise where additional information may be required. Please contact a KUDU representative for further technical consultation.

Elastomer Choices

Model	Elastomer Description	Maximum Temp. °C	Sand Resistance	H ₂ S Resistance	CO ₂ Resistance	Aromatics @20°C	Hydrolysis @50°C	Explosive Decomp.
159	NBR (Synthetic)	120	6	6	6	5	5	9
194	NBR (Synthetic)	80	8	7	5	3	7	7
199	NBR (Synthetic)	120	4	5	9	7	5	10
204	FPM (Fluorocarbon Copolymer)	80	2	8	10	10	10	5
205	NBR (Synthetic)	80	10	7	4	2	8	6

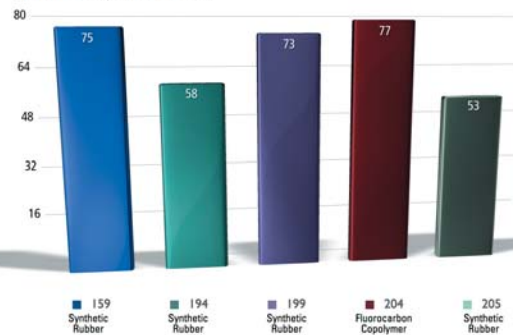
5 = Average 10 = Best

Special Clearance Pumps

Series	Slim Hole Stator O.D.		Flushline Stator O.D.	
	in	mm	in	mm
2 3/8"	2.70	69		
2 7/8"	3.07	78	3.38	86
3 1/2"	3.70	94	4.04	102
4"	3.90	99	4.33	110

Includes special clearance auxiliary equipment.

Hardness, Shore "A"



KUDU is committed to developing safe and reliable products.



KUDU's manufacturing and distribution systems are ISO 9001:2000 registered.

Ability to Coil Past KUDU Pumps

	Kudu Pump Model	*Crest to Crest Diameter. (mm)	*Crest to Crest Diameter. (in.)	73 mmTbg. (Drift ID = 59.61 mm) 9.67 kg/m	88.9 mmTbg. (Drift ID = 72.82 mm) 13.84 kg/m	114.3 mm Tbg. (Drift ID = 97.36 mm) 18.97 kg/m
				2 7/8" Tbg. (Drift ID = 2.35") 6.5 lb/ft	3 1/2" Tbg. (Drift ID = 2.99") 9.3 lb/ft	4 1/2" Tbg. (Drift ID = 3.96") 12.75 lb/ft
				Ability to coil past rotor with 3/4" Coil Tbg.	Ability to coil past rotor with 3/4" Coil Tbg.	Ability to coil past rotor with 3/4" Coil Tbg.
2 3/8" Series	15 TP	35.92	1.41	✓	✓	✓
	30 TP	33.78	1.33	✓	✓	✓
	80 TP	37.24	1.47	✓	✓	✓
2 7/8" Series	60 TP	45.21	1.78		✓	✓
	100 TP	43.18	1.70		✓	✓
3 1/2" Series	120 TP	51.10	2.01		✓	✓
	160 TP	51.00	2.01		✓	✓
	200 TP	51.08	2.01		✓	✓
	300 TP	51.44	2.03		✓	✓
4" Series	180 TP	58.88	2.32			✓
	225 TP	58.01	2.28			✓
	300 TP	58.17	2.29			✓
	400 TP	57.66	2.27			✓
	500 TP	58.76	2.31			✓
	600 TP	58.29	2.30			✓
5" Series	800 TP	57.48	2.26			✓
	750 TP	75.21	2.96			✓
	1000 TP	69.44	2.73			✓

Table considers drift ID of different tubing sizes using a 2.54 mm clearance factor. Crest to Crest Diameter is measured on rotors sized for 30° Celsius. This figure will change with different rotor sizes.

KUDU's Complete PCP System

KUDU provides the perfect fit for any environment with Pumps, Driveheads and Power Units engineered to handle the most demanding applications. KUDU's Progressing Cavity Pump delivers a consistent head capacity with no pulsations and superior sand lifting capability. Ranging from 40 to 200 horsepower, KUDU Driveheads have proven performance in heavy to light oil, dewatering and coal bed methane operations.

Contact a KUDU representative for a customized system designed for optimal well performance.

Service That Makes Sense

With 12 field stores located in Alberta and Saskatchewan; KUDU is close to where the action is. This proximity to oilfield activity enables KUDU to have the knowledge, adaptability and responsiveness tailored to your operation's needs. KUDU's exceptional technical team provides a perfect fit for any environment and is always available for service and support.



All information is considered accurate and up to date at time of printing. KUDU reserves the right to amend the contents of this document at any time. KUDU does not warranty manufacturers claims.

Bonnyville 1-780-826-7179	Elk Point 1-780-724-2910	Kindersley 1-306-463-6440	Macklin 1-306-753-2950	Sedgewick 1-780-384-2177	Taber 1-403-223-1201	International 1-800-642-5519	KUDU Industries 9112 - 40th Street SE Calgary, AB Canada T2C 2P3 1-403-279-5838
Brooks 1-403-793-8080	Estevan 1-306-634-9966	Lloydminster 1-780-871-0660	Peace River 1-780-624-9570	Slave Lake 1-780-849-5650	Wabasca 1-780-891-1032		

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