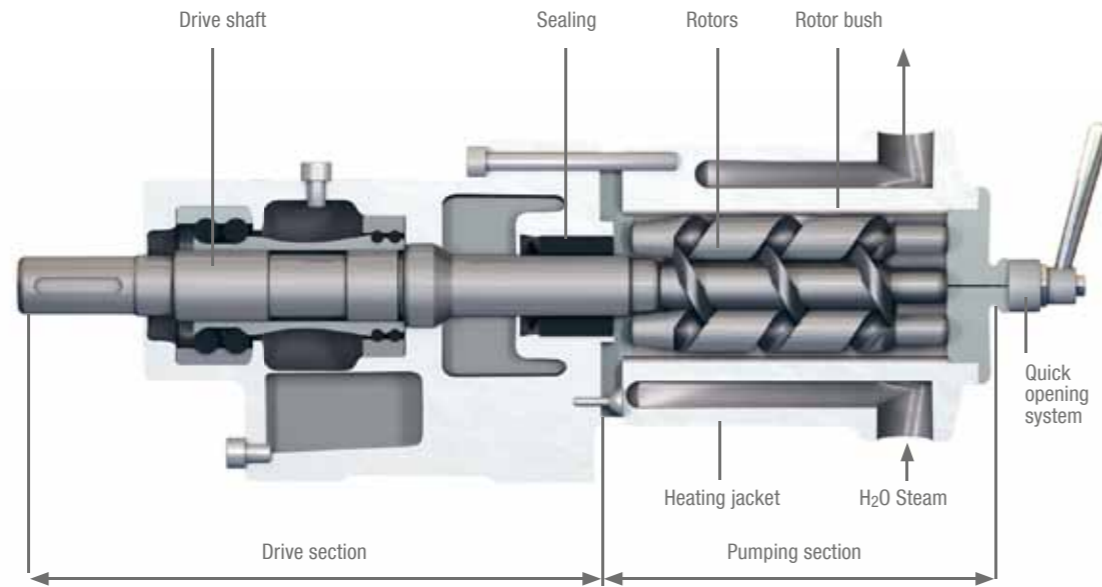


HIGH VISCOSITY SCREW PUMP



HOW IT WORKS

The SUP screw pump comprises three rotors: a center rotor, which is driven by a drive shaft, and two idling side rotors driven by the center rotor. These rotors are encased in a closely fitting rotor bush. This meshing together of the rotors creates sealed chambers through which the pumped media is conveyed.

When the center rotor is rotated by the drive shaft, these sealed chambers receive the medium to be pumped at the suction side of the pump and convey it in an even stream to the de-livery side, at which point it is subjected to the system pressure for the application.

PERFORMANCE

TABLE

Due to physical differences of the various media handled, the performance data indicated are to be understood as average values only.

Size	Pressure bar	50 Hz drive										60 Hz drive																			
		Speed n = 730 min ⁻¹																				Speed n = 880 min ⁻¹									
		760 cSt		1,520 cSt		3,800 cSt		7,600 cSt		22,800 cSt		760 cSt		1,520 cSt		3,800 cSt		7,600 cSt		22,800 cSt											
kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min												
SUP 32	0.5	0.36	20.0	0.44	20.3	0.55	18.5	0.77	16.5	1.39	12.5	0.40	24.5	0.47	24.8	0.58	23.0	0.88	21.0	1.55	17.0										
	5.0	0.68	18.3	0.81	18.6	1.08	16.6	1.45	14.9	2.21	11.0	0.77	22.8	0.92	23.0	1.25	21.2	1.72	19.4	2.42	15.5										
	10.0	0.99	20.2	1.18	16.8	1.61	14.7	2.13	13.3	3.01	9.5	1.14	21.0	1.39	21.3	1.91	19.3	2.57	17.8	3.61	14.0										
	15.0	1.30	20.3	1.54	15.0	2.15	12.8	2.81	11.7	3.82	8.0	1.51	19.3	1.87	19.5	2.57	19.5	3.42	16.2	4.78	12.5										
SUP 38	0.5	0.58	33.0	0.66	33.5	0.74	31.0	0.95	28.0	1.54	22.5	0.66	40.5	0.77	41.0	0.88	38.5	1.17	35.5	1.61	30.0										
	5.0	0.95	31.0	1.12	31.5	1.41	29.0	1.81	26.5	2.57	21.0	1.10	38.3	1.28	38.8	1.65	36.5	2.13	34.0	2.87	28.5										
	10.0	1.32	29.0	1.58	29.5	2.09	27.0	2.64	25.0	3.61	19.5	1.54	36.0	1.80	36.5	2.46	34.5	3.09	32.5	4.12	27.0										
	15.0	1.69	27.0	2.04	27.5	2.77	25.0	3.49	23.5	4.63	18.0	1.98	33.8	2.31	34.3	3.32	32.5	4.04	31.0	5.37	25.5										
SUP 45	0.5	0.92	54.0	0.99	55.0	1.11	52.0	1.47	49.0	2.13	41.0	1.14	65.0	1.25	66.0	1.36	63.0	1.80	60.0	2.57	54.0										
	5.0	1.41	50.0	1.63	51.0	2.02	49.0	2.57	46.5	3.53	39.0	1.69	61.5	1.98	62.0	2.35	59.5	2.89	57.5	4.04	52.0										
	10.0	1.91	46.0	2.28	47.0	2.94	46.0	3.68	44.0	4.93	37.0	2.24	58.0	2.68	58.0	3.38	56.0	4.19	55.0	5.52	51.0										
	15.0	2.41	42.0	2.92	43.0	3.86	43.0	4.78	41.5	6.32	35.0	2.79	54.5	3.42	54.0	4.37	52.5	5.37	52.5	6.99	49.5										
SUP 52	0.5	1.61	82.0	1.76	83.0	1.95	80.0	2.72	76.0	4.04	66.5	2.06	99.0	2.21	100.0	2.39	97.0	3.23	93.0	4.48	86.0										
	5.0	2.21	78.5	2.51	79.5	3.03	77.0	3.86	73.5	5.29	64.5	2.72	95.0	3.05	96.0	3.60	94.0	4.48	91.5	5.81	84.0										
	10.0	2.79	75.0	3.23	76.0	4.12	74.0	5.00	71.0	6.55	62.5	3.38	91.0	3.90	92.0	4.85	91.0	5.74	88.0	7.13	82.0										
	15.0	3.38	71.5	3.97	72.5	5.21	71.0	6.14	68.5	7.80	60.5	3.97	87.0	4.74	88.0	6.09	88.0	6.99	85.5	8.46	80.0										
SUP 60	0.5	2.64	121.0	2.79	122.0	3.09	118.0	4.19	114.0	6.18	103.0	3.27	146.0	3.38	147.0	3.71	143.0	4.78	139.0	6.32	130.0										
	5.0	3.34	115.5	3.75	116.5	4.45	113.5	5.63	110.0	7.65	100.0	4.04	141.0	4.48	142.0	5.22	139.0	6.32	135.5	8.02	126.0										
	10.0	4.04	110.0	4.71	111.0	5.81	109.0	7.06	106.0	9.12	97.0	4.85	136.0	5.55	137.0	6.69	135.0	7.87	132.0	9.71	122.0										
	15.0	4.74	104.5	5.66	105.5	7.17	104.5	8.50	102.0	10.59	94.0	5.66	131.0	6.64	132.0	8.16	131.0	9.42	128.5	11.41	118.0										

Size	Pressure bar	50 Hz drive										60 Hz drive																			
		Speed n = 980 min ⁻¹																				Speed n = 1,170 min ⁻¹									
		760 cSt		1,520 cSt		3,800 cSt		7,600 cSt		22,800 cSt		760 cSt		1,520 cSt		3,800 cSt		7,600 cSt		22,800 cSt											
kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min												
SUP 32	0.5	0.44	27.2	0.51	27.4	0.62	25.0	0.99	22.8	1.90	18.0	0.51	33.4	0.58	33.7	0.74	31.3	1.10	29.1	1.84	23.0										
	5.0	0.82	25.6	1.03	25.9	1.39	23.5	1.93	21.7	2.87	17.0	0.95	31.7	1.21	32.1	1.65	29.8	2.28	28.0	3.38	22.0										
	10.0	1.21	24.0	1.54	24.3	2.17	22.0	2.87	20.5	4.04	16.0	1.39	30.0	1.84	30.4	2.57	28.3	3.45	26.8	4.93	21.0										
	15.0	1.60	22.4	2.06	22.8	2.94	20.5	3.81	19.4	5.22	15.0	1.84	28.3	2.46	28.8	3.49	26.8	4.63	25.7	6.47	20.0										
SUP 38	0.5	0.74	45.5	0.88	46.0	0.99	43.0	1.32	39.0	2.06	31.5	0.84	54.5	1.03	55.0	1.17	52.5	1.61	49.0	2.87	42.0										
	5.0	1.21	43.3	1.43	43.8	1.84	41.0	2.37	37.5	3.38	30.0	1.39	52.3	1.65	53.0	2.17	50.5	2.79	47.5	3.75	40.0										
	10.0	1.69	41.0	1.98	41.5	2.68	39.0	3.42	36.0	4.71	28.5	1.95	50.0	2.28	51.0	3.16	48.5	3.97	46.0	5.37	38.0										
	15.0	2.17	38.8	2.53	39.3	3.53	37.0	4.47	34.5	6.03	27.0	2.5	47.8	2.91	49.0	4.15	46.5	5.15	44.5	6.99	36.0										
SUP 45	0.5	1.25	73.0	1.39	74.0	1.54	70.0	2.02	66.0	2.78	58.0	1.5	87.0	1.72	88.0	1.87	84.0	2.42	80.0	4.12	72.0										
	5.0	1.87	69.0	2.17	70.0	2.61	66.5	3.29	63.0	4.41	55.0	2.21	83.5	2.57	84.5	3.07	80.5	3.82	77.0	5.59	69.0										
	10.0	2.50	65.0	2.94	66.0	3.68	63.0	4.56	60.0	6.03	52.0	2.91	80.0	3.42	81.0	4.26	77.0	5.22	74.0	7.06	66.0										
	15.0	3.12	61.0	3.71	62.0	4.74	59.5	5.83	57.0	7.65	49.0	3.61	76.5	4.26	77.5	5.46	73.5	6.62	71.0	8.53	63.0										
SUP 52	0.5	2.35	110.0	2.50	111.0	2.72	107.0	3.56	102.0	5.07	92.0	2.91	131.0	3.09	132.0	3.27	128.0	4.23	124.0	5.88	115.5										
	5.0	3.05	106.0	3.42	107.0	4.04	103.5	4.98	99.0	6.62	89.0	3.69	127.0	4.12	128.0	4.76	124.5	5.94	121.0	7.94	112.0										
	10.0	3.75	102.0	4.34	103.0	5.37	10.0	6.40	96.0	8.16	86.0	4.48	123.0	5.15	124.0	6.25	121.0	7.65	118.0	10.01	108.5										
	15.0	4.45	98.0	5.26	99.0	6.69	96.5	7.82	93.0	9.71	83.0	5.24	119.0	6.18	120.0	7.74	117.5	9.36	115.0	12.07	105.0										
SUP 60	0.5	3.68	162.0	3.82	163.0	4.15	159.0	5.22	153.0	7.06	142.0	4.45	195.0	4.63	196.0	4.93	192.0	5.96	187.0	7.51	117.5										
	5.0	4.56	156.5	4.96	157.5	5.72	154.0	6.90	149.0	8.91	138.5	5.46	190.0	5.88	191.0	6.66	187.0	7.94	183.0	9.93	173.5										
	10.0	5.44	151.0	6.11	152.0	7.28	149.0	8.61	145.0	10.74	135.0	6.47	185.0	7.13	186.0	8.39	182.0	9.93	179.0	12.36	169.5										
	15.0	6.32	145.5	7.24	146.5	8.85	144.0	10.30	141.0	12.58	131.5	7.48	180.0	8.39	181.0	10.12	177.0	11.92	175.0	14.79	165.5										



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