

novax

PUMPS & MOTORS



Sea water desalting | Petrochemical industry | Waste water
Industrial application | Domestic water supply | Groundwater
Pressure boost | HVAC | Heating | Fire fighting



CORA NG series are self-priming sewage pumps with the advanced device Maintenance Hole and Wear Plate. They can transfer of liquid containing sand, particle and solid in suspension, superior in performance and maintenance.

Design & Material

• Bare Shaft • Direct Coupled with Electric Motor or Engine

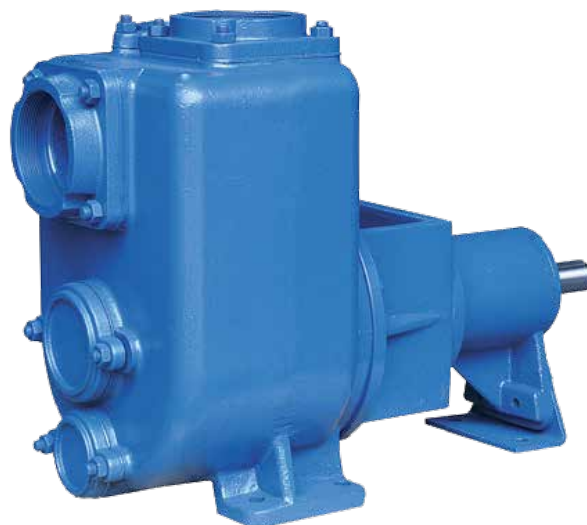
Design	Performance and Dimensions referring to the European standard
Structure	Semi-openimpeller; Horizontal, Single-Stage, Single-Suction, Self-priming
DN (mm)	40-200
Flange	All CORA NG pumps are casted with flange
Casing	Cast Iron standard, Ductile Iron optional, Bronze optional
Impeller	Ductile Iron standard, Bronze, ASTM304, ASTM316 optional
Shaft	ASTM420standard, ASTM304, ASTM316, ASTM1045 optional
Shaft Seal	Mechanical Seal (Carbon-Sic/Viton)

Operating Data

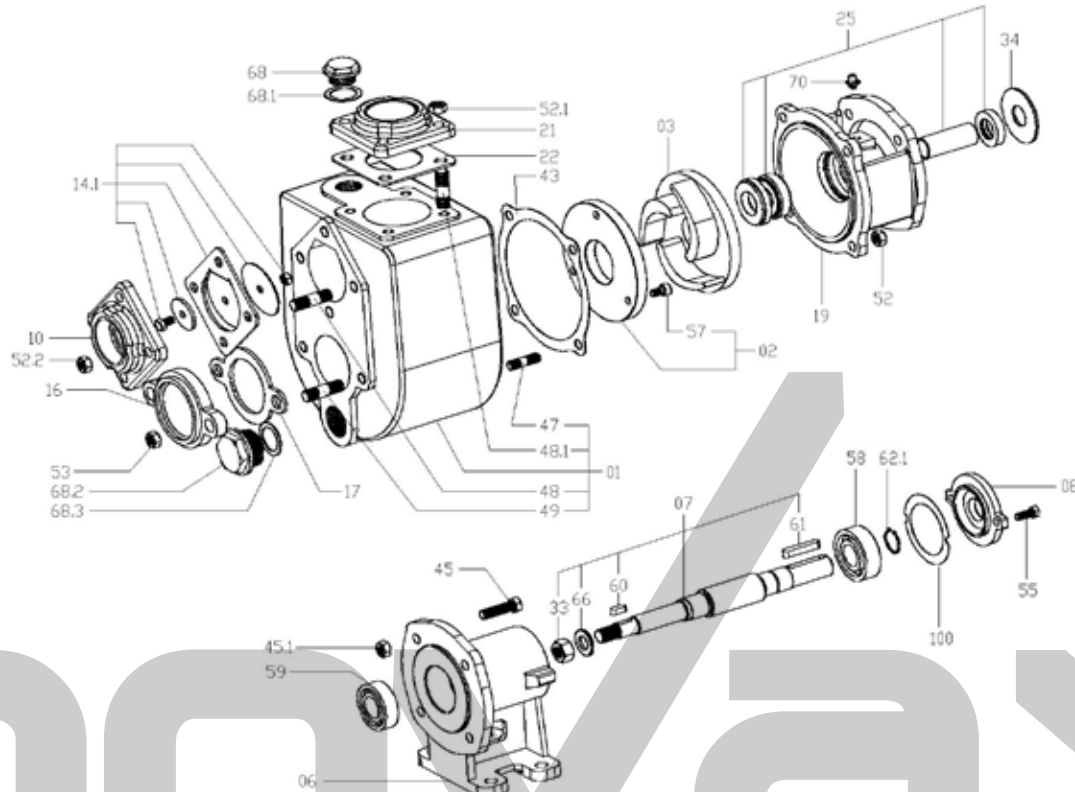
Flow Rate(Q)	2-160 l/s
Head(H)	4-60m
Speed	1450~2900 rpm(50HZ), 1750~3500 rpm(60HZ)
Temperature	≤105°C
Working Pressure	0.6 MPa
Max Solids	76 mm

Applications

- Waste Water Treatment Plant
- Portable Emergency Fire Fighting
- Marine - Ballasting & Bilge
- Liquid transfer: Transfer of liquid containing sand, particle and solid in suspension



CORA NON GLOG Series Explode View & List of Parts



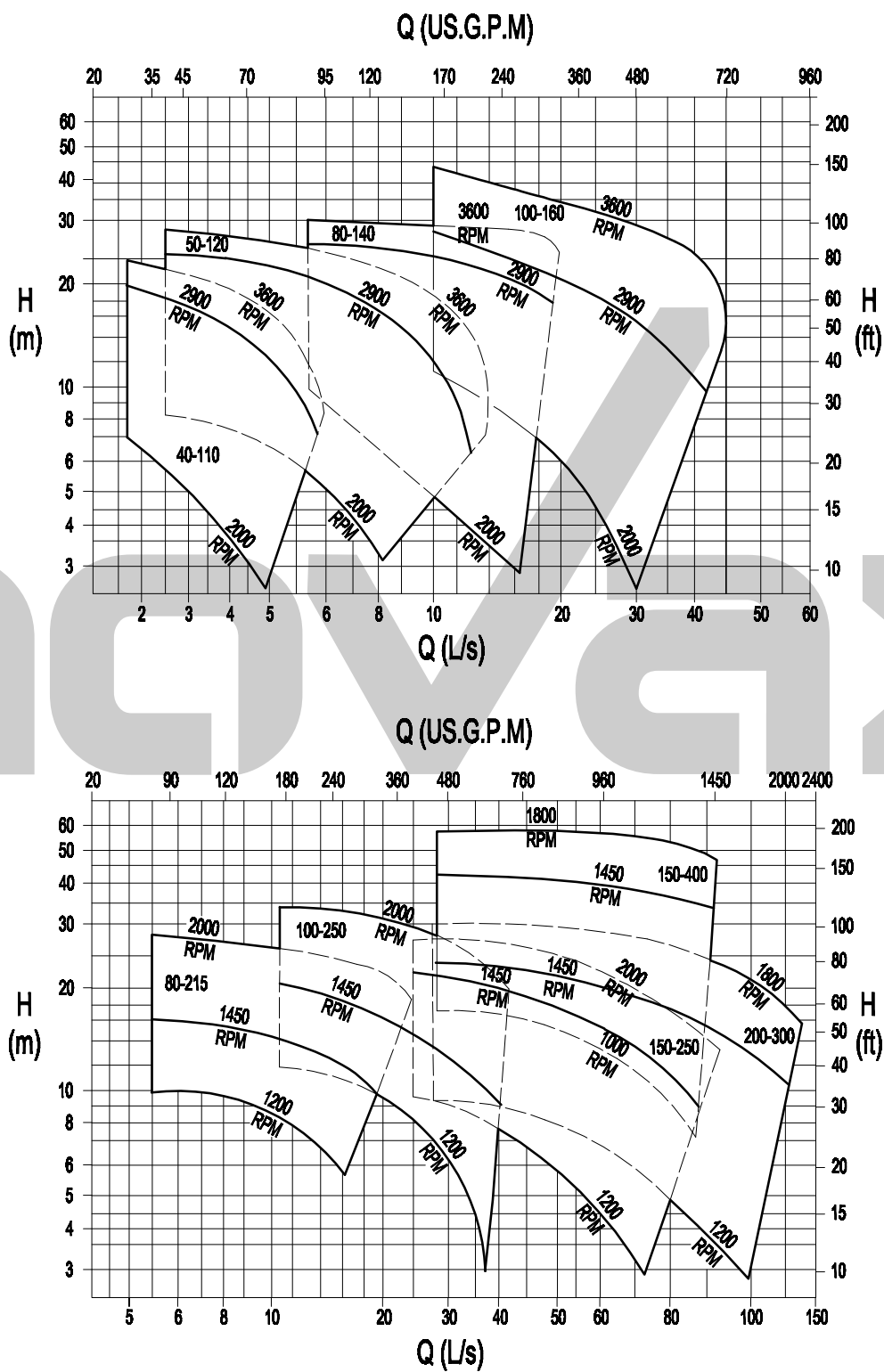
Code	Part Name
01	Casing
02	Wear Plate-Front
02.1	Wear Plate-Back
03	Impeller
06	Bearing Frame
06.1	Support Foot
06.2	Bolt
06.3	Flat Washer
07	Shaft
08	Bearing Cover
10	Suction Flange
14.1	Rubber Check
	Front Plate-Check Valve
	Back Plate-Check Valve
	Bolt
	Nut
16	Inspection Cover
17	Inspection Cover Gasket

Code	Part Name
18	Pump Cover
21	Discharge Flange
22	Discharge Gasket
23	Inspection Cover
24	Inspection Cover Gasket
25	Shaft Sleeve
	Oil Seal
	Mechanical Seal
33	Impeller Nut
42	Back Wear Plate Gasket
43	Casing Gasket
45	Bolt
45.1	Nut
47	Stud
48	Stud
49	Stud
50	Stud
52	Nut

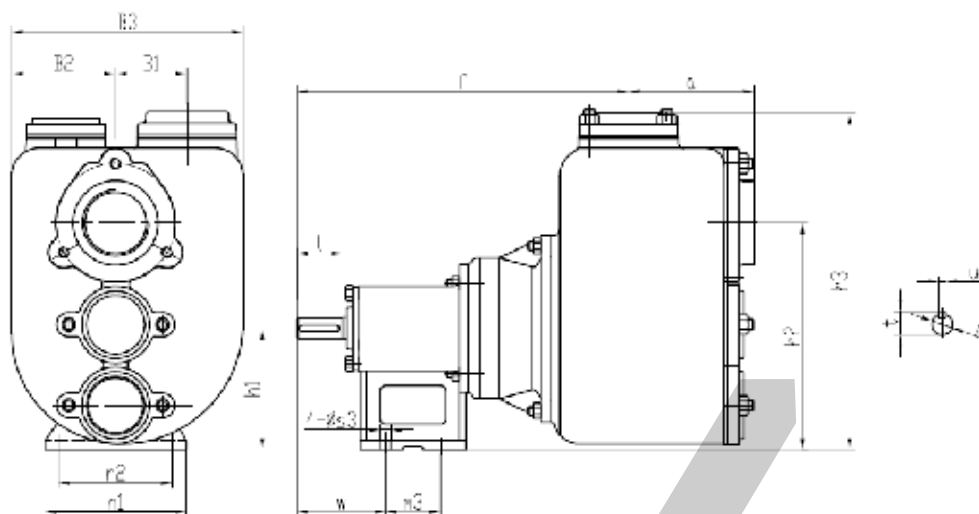
Code	Part Name
53	Nut
53.1	Nut
55	Bolt
57	Screw
57.1	Stud
57.2	Nut
58	Ball Bearing
59	Ball Bearing
60	Key (Impeller)
61	Key (Shaft)
62	Bearing Lock Nut
66	Flat Washer
67	Grease Nipple
70	Grease Nipple
100	Bearing Lock Nut Washer
101	Bearing Lock Nut Washer



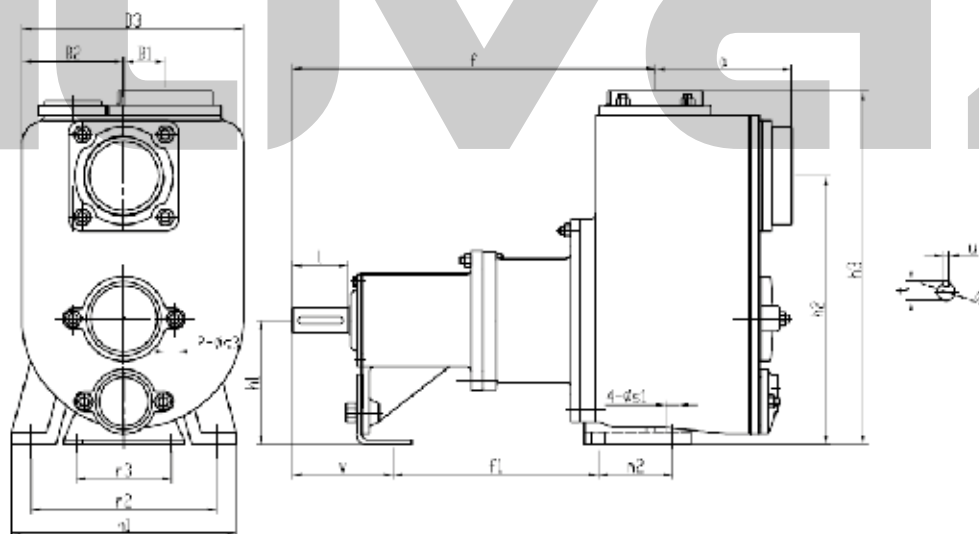
Family Chart CORA NON GLOG Series (50Hz)



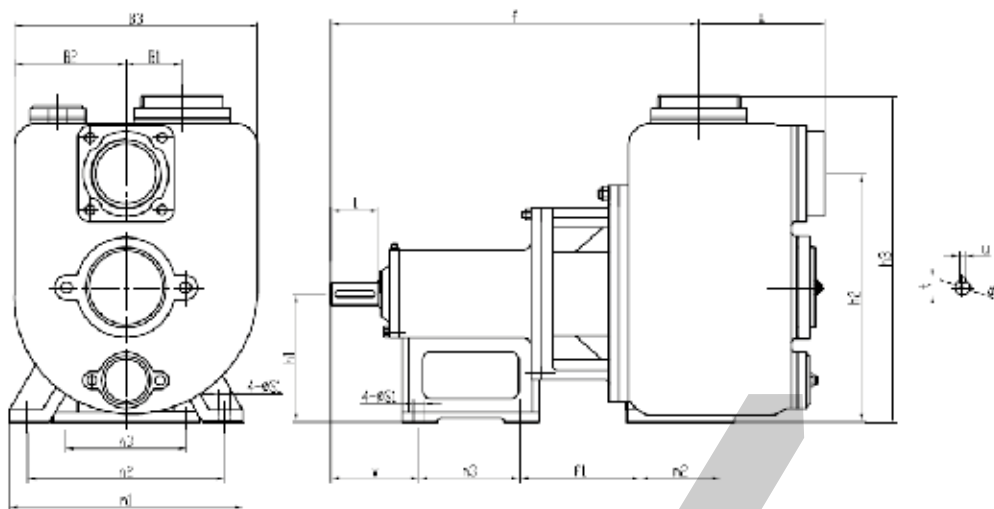
CORA NON CL OG NG Series Installation Dimensions



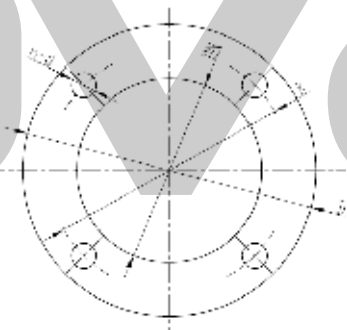
Model	B1	B2	B3	h1	h2	h3	n2	n1	f	a	l	w	m3	t	u	d	s3
CNG 140-110	30	80	173	90	163	237	80	102	263	75	40	70	50	21.5	6	19	10
CNG 50-120	36	94	210	110	206	326	103	128	300	114	40	80	50	21.5	6	19	12
CNG 100-160	37	150	300	160	341	462	150	182	442	180	60	110	125	31	8	28	14



Model	B1	B2	B3	h1	h2	h3	n3	n2	n1	f	a	l	w	fl	m2	t	u	d	s1	s3
CNG 180-140	45	110	240	135	292	384	90	200	245	392	148	60	109	222	80	31	8	28	14	14
CNG 100-250	160	179	420	200	350	485	110	295	340	469	275	80	137.5	347	95	35	10	32	14	15
CNG 150-250	90	220	480	250	454	609	110	350	410	565.5	291.5	80	137.5	322	170	35	10	32	18	15
CNG 150-400	280	280	700	350	645	801	150	450	510	700	374	110	180	477.5	200	59	16	55	18	18
CNG 200-300	75	288	575	315	535	720	150	450	510	822	246	110	165	498.5	200	45	12	42	18	18



Model	B1	B2	B3	h1	h2	h3	n3	n2	n1	f	a	l	w	m3	fl	m2	t	u	d	sl	s3
CNG 80-215	70	139	302	160	310	410	150	245	290	458	155	60	110	125	150	100	31	8	28	14	14



Model	Flange Standard Dimensions for EJ series							
	Inlet Flange(mm)				Outlet Flange(mm)			
	DN	D	K	n-d	DN	D	K	n-d
CNG 40-110	RPI 1/2	--	--	--	RPI 1/2	--	--	--
CNG 50-120	Rp2	--	--	--		--	--	--
CNG 80-140	Rp3	--	--	--		--	--	--
CNG 80-215	Rp3	--	--	--		--	--	--
CNG 100-160	Rp4	--	--	--		--	--	--
CNG 100-250	Rp4	--	--	--		--	--	--
CNG 150-250	150	276	240	6-ø18		276	240	6-ø18
CNG 150-400	150	276	240	6-ø18		276	240	6-ø18
CNG 200-300	200	320	280	8-ø18		320	280	8-ø18

LOAD LOSSES TABLE

LOAD LOSSES (Pc) in meters (column of water) Flow rate (V m/s)

Capacity	m ³ /h	Internal diameter in mm																	
		25	32	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	350
3	Pc% Vm/s	17 1.70	6 1.03	1.6 0.67	0.54 0.43	0.25 0.29	0.13 0.22	0.06 0.16	0.03 0.13	0.02 0.10									
6	Pc% Vm/s		24 2.06	6 1.34	2 0.85	0.9 0.58	0.43 0.44	0.21 0.32	0.13 0.26	0.08 0.20	0.026 0.13								
9	Pc% Vm/s			12.5 2.08	4.3 1.32	1.8 0.89	0.9 0.65	0.46 0.5	0.25 0.39	0.15 0.32	0.06 0.20								
12	Pc% Vm/s			20 2.76	7 0.76	32 1.19	1.5 0.88	0.75 0.67	0.44 0.53	0.25 0.43	0.09 0.27	0.03 0.18							
15	Pc% Vm/s			12 2.2	5.2 1.49	2.4 1.1	1.25 0.87	0.7 0.66	0.42 0.54	0.15 0.34	0.06 0.24								
18	Pc% Vm/s			17 2.64	7 1.78	3.5 1.3	1.7 1	1 0.78	0.6 0.64	0.2 0.4	0.08 0.28								
21	Pc% Vm/s			22 3.35	8.8 2.08	4.2 1.54	2.2 1.17	1.3 0.93	0.75 0.75	0.26 0.48	0.1 0.32	0.05 0.24							
24	Pc% Vm/s			12 2.38	5.7 1.76	3 1.34	1.7 1.06	1 0.86	0.36 0.54	0.14 0.36	0.07 0.28								
27	Pc% Vm/s			14 2.7	7 1.97	3.5 1.45	2 1.17	1.25 0.96	0.42 0.6	0.17 0.42	0.08 0.31								
30	Pc% Vm/s			17 2.98	8.2 2.2	4.2 1.74	2.5 1.32	1.5 1.08	0.5 0.68	0.2 0.48	0.09 0.34								
36	Pc% Vm/s			25 3.58	12 2.63	6.3 2	3.5 1.58	2 1.28	0.75 0.52	0.3 0.57	0.14 0.42	0.07 0.32							
42	Pc% Vm/s			16 3.07	8.5 2.34	4.5 1.85	2.7 1.5	0.85 0.96	0.33 0.66	0.18 0.48	0.08 0.37								
48	Pc% Vm/s			21 3.51	10 2.68	6 2.12	3.6 1.75	1.2 0.72	0.45 0.56	0.22 0.43	0.12 0.37	0.06 0.37							
54	Pc% Vm/s			25 3.94	13.5 3	7.6 2.34	4.5 1.92	1.5 0.84	0.55 0.63	0.28 0.48	0.14 0.38	0.08 0.38							
60	Pc% Vm/s			16 3.32	9 2.64	5.5 2.16	1.8 1.36	0.7 0.96	0.33 0.68	0.17 0.53	0.1 0.42								
75	Pc% Vm/s			24 4.17	14 3.31	8 2.68	2.76 1.72	1 0.87	0.48 0.67	0.24 0.53	0.14 0.43	0.08 0.43							
90	Pc% Vm/s			20 3.97	12.5 3.24	3.8 2.04	1.45 1.44	0.74 1.02	0.36 0.8	0.2 0.63	0.14 0.51	0.08 0.42							
105	Pc% Vm/s			16.5 3.74	5.3 2.41	1.95 1.66	0.9 1.22	0.47 0.93	0.27 0.74	0.16 0.59	0.1 0.49								
120	Pc% Vm/s			21.5 4.31	6.9 4.72	2.6 1.93	1.2 1.35	0.61 1.06	0.36 0.84	0.2 0.68	0.14 0.56	0.08 0.47							
135	Pc% Vm/s			26 4.81	9 5.07	3.3 2.43	1.5 1.56	0.76 1.19	0.45 0.95	0.25 0.76	0.17 0.63	0.1 0.53							
150	Pc% Vm/s			11 3.44	4 2.36	1.9 1.74	0.95 1.34	0.3 1.05	0.3 0.86	0.21 0.70	0.12 0.59	0.06 0.43							
165	Pc% Vm/s			13 3.75	4.7 2.61	2.2 1.94	1.13 1.46	0.65 1.15	0.37 0.94	0.24 0.77	0.15 0.65	0.08 0.48							
180	Pc% Vm/s			15.2 4.09	5.5 2.83	2.6 2.08	1.3 1.59	0.76 1.26	0.43 1.02	0.29 0.84	0.18 0.71	0.09 0.52							
210	Pc% Vm/s			21 4.70	7.4 3.32	3.5 2.43	1.8 1.86	0.6 1.19	0.37 0.98	0.24 0.82	0.12 0.61	0.06 0.47							
240	Pc% Vm/s			9.4 3.78	4.3 2.77	2.3 2.12	1.3 1.68	0.75 1.36	0.48 1.12	0.3 0.95	0.15 0.69	0.08 0.53							
270	Pc% Vm/s			12 4.26	5.5 3.13	2.8 2.39	1.62 1.90	0.9 1.26	0.58 1.07	0.35 0.78	0.18 0.59	0.09 0.59							
300	Pc% Vm/s			14 4.75	7.5 3.47	3.4 2.66	2 1.71	1.1 1.40	0.74 1.18	0.46 0.86	0.22 0.67	0.11 0.53							
360	Pc% Vm/s			9 4.15	4.7 3.17	2.8 2.53	1.6 2.04	1 1.68	0.65 1.41	0.32 1.04	0.16 0.79	0.09 0.63							
420	Pc% Vm/s			11.6 4.86	6.2 3.72	3.5 2.94	2 1.96	1.3 1.64	0.82 1.22	0.41 0.94	0.21 0.76	0.07 0.59							
480	Pc% Vm/s			8.5 4.24	4.9 3.36	2.9 2.72	1.9 2.24	1.2 1.90	0.6 1.36	0.3 1.06	0.17 0.84	0.09 0.47							
540	Pc% Vm/s			14 3.80	6.5 3.7	3.7 3.06	2.35 2.52	1.52 1.56	0.75 1.19	0.38 0.94	0.22 0.76	0.12 0.53							
600	Pc% Vm/s			12.2 5.30	7.4 4.20	4.3 3.40	2.7 2.81	1.7 2.36	0.9 1.73	0.45 1.34	0.25 1.06	0.13 0.61	0.055 0.44						
660	Pc% Vm/s			9 4.61	5.2 3.76	3.3 3.07	2.1 2.59	1.1 1.89	0.54 1.46	0.3 0.93	0.16 0.65	0.06 0.48							
720	Pc% Vm/s			10 5.05	6 4.08	3.8 3.37	2.5 2.84	1.3 2.08	0.62 1.65	0.35 1.26	0.19 0.71	0.075 0.52							
780	Pc% Vm/s			7.3 4.43	4.5 3.65	3 3.08	1.5 2.26	0.75 1.73	0.42 1.36	0.23 1.11	0.11 0.77	0.08 0.56							
840	Pc% Vm/s			8 4.76	5.4 3.95	3.4 3.31	1.7 2.43	0.85 1.86	0.48 1.47	0.26 1.19	0.1 0.83	0.047 0.61							
900	Pc% Vm/s			9 5.1	5.8 4.22	3.75 3.54	1.9 2.60	0.96 2.00	0.53 1.57	0.29 1.27	0.11 0.88	0.053 0.65							
960	Pc% Vm/s			6.5 4.49	4.3 3.78	2.1 2.77	1.2 2.13	0.6 1.68	0.32 1.36	0.12 0.95	0.06 0.70								
1020	Pc% Vm/s			7.2 4.76	4.6 4.01	2.45 2.94	1.2 2.26	0.67 1.78	0.35 1.44	0.14 1.00	0.065 0.77	0.037 0.54							
1080	Pc% Vm/s			5.4 4.26	2.8 3.12	1.4 2.38	0.78 1.86	0.43 1.53	0.16 1.06	0.073 0.78	0.037 0.57								
1140	Pc% Vm/s			6 4.49	3.2 3.29	1.53 2.53	0.86 1.99	0.45 1.65	0.175 1.12	0.08 0.84	0.043 0.61	0.037 0.52							
1200	Pc% Vm/s			6.5 4.72	3.4 3.45	1.7 2.68	0.93 2.12	0.5 1.72	0.19 1.23	0.09 0.98	0.046 0.63	0.04 0.54	0.025 0.4						

Discharge diameter
Suction diameter

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