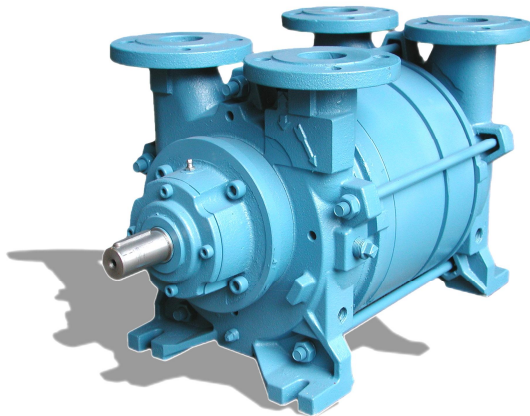




cutes corp.

CPS/CPV SERIES

Liquid Ring Vacuum Pump Data Sheet



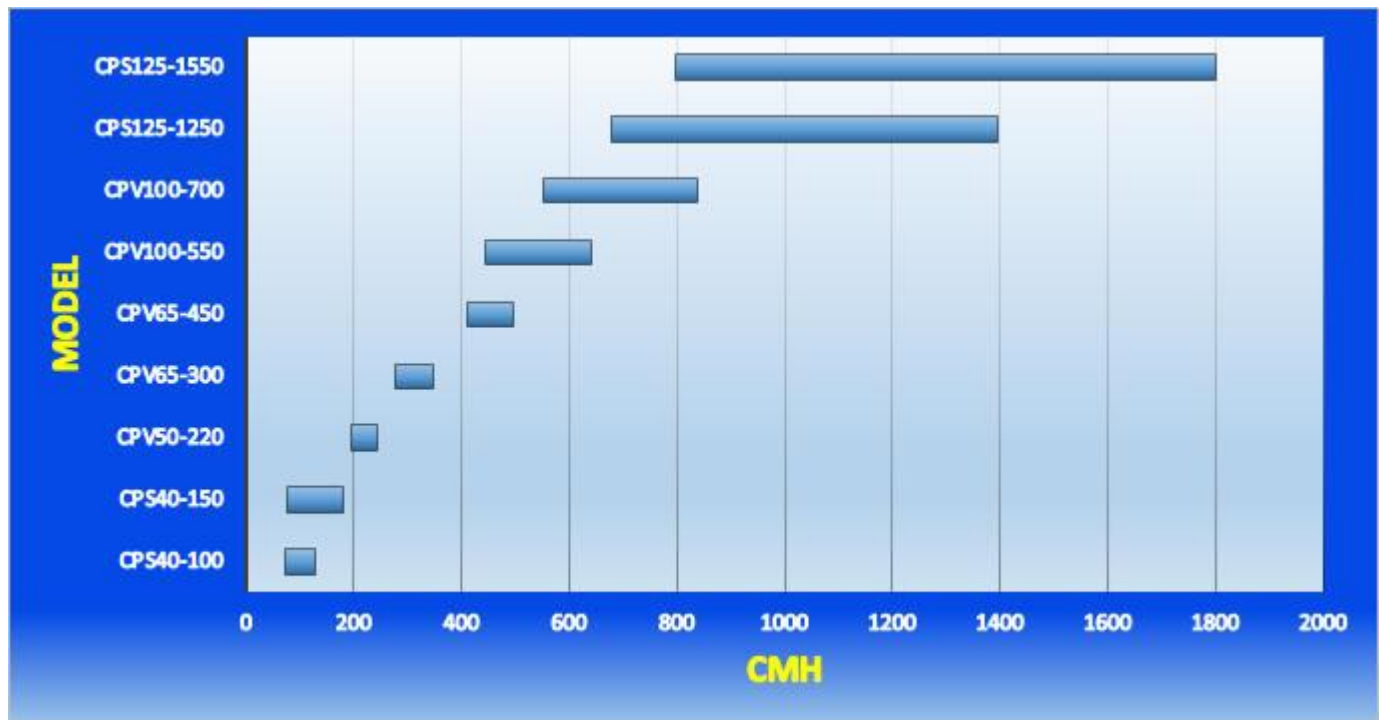
Technical Data	
Pump type	CPS SERIES
Capacity CMH	100~1800
Noise dB(A)*	65~80
Weight KGs	70~462

* With silencer and after inlet and outlet piping in 200Torr.

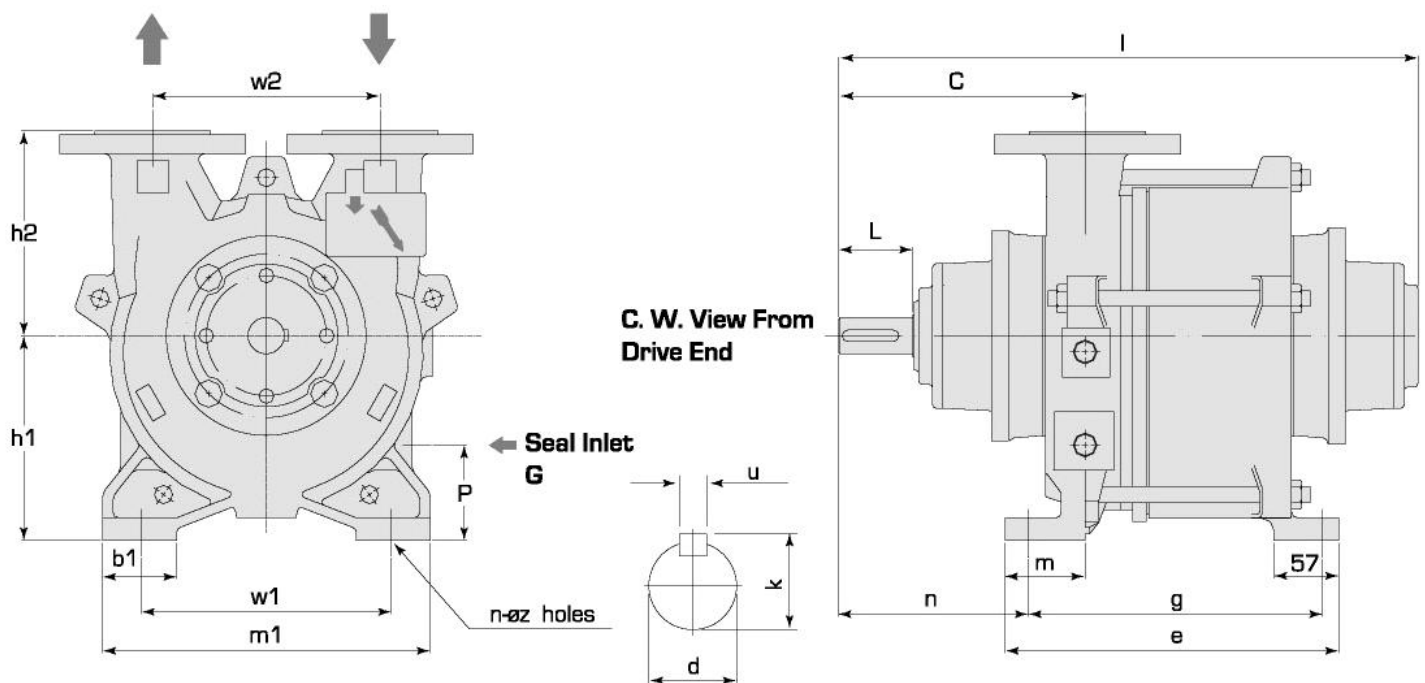
Model Order Code	
<u>CPS 40 – 100 FCD</u>	
CP	CUTES Liquid Ring Vacuum Pump with Port Plate design
S	Single Stage
40	INLET / OUTLET Flange Diameter mm (1.5")
100	Nominal Capacity 100 (m ³ /h)
FCD	Material Construction Code. Ref. below table

Parts Name	FCD	STD	BVC	BVH	XVS	SS4	STD6	PVS	SS6
Port Plate	FC 250	FC 250	SCS13	FC 250	SCS 13	SCS 13	FC 250	SCS 14	SCS 14
Head	FC 250	FC 250	FC 250	FC 250	FC 250	SCS 13	FC 250	FC 250	SCS 14
Housing/Casing	FC 250	FC 250	FC 250	SCS13	SCS 13	SCS 13	FC 250	SCS 14	SCS 14
Shaft	SUS 410	SUS 410	SUS 410	SUS410	SUS 410	SUS 410	SUS 316	SUS 316	SUS 316
Rotor/Impeller	FCD 400	SCS13	SCS13	SCS13	SCS 13	SCS 13	SCS14	SCS 14	SCS 14
Bearing Bracket	FC 250	FC 250	FC 250	FC 250	FC 250	FC 250	FC 250	FC 250	FC 250
Bearing Cap	FC 250	FC 250	FC 250	FC 250	FC 250	FC 250	FC 250	FC 250	FC 250

Performance Curves

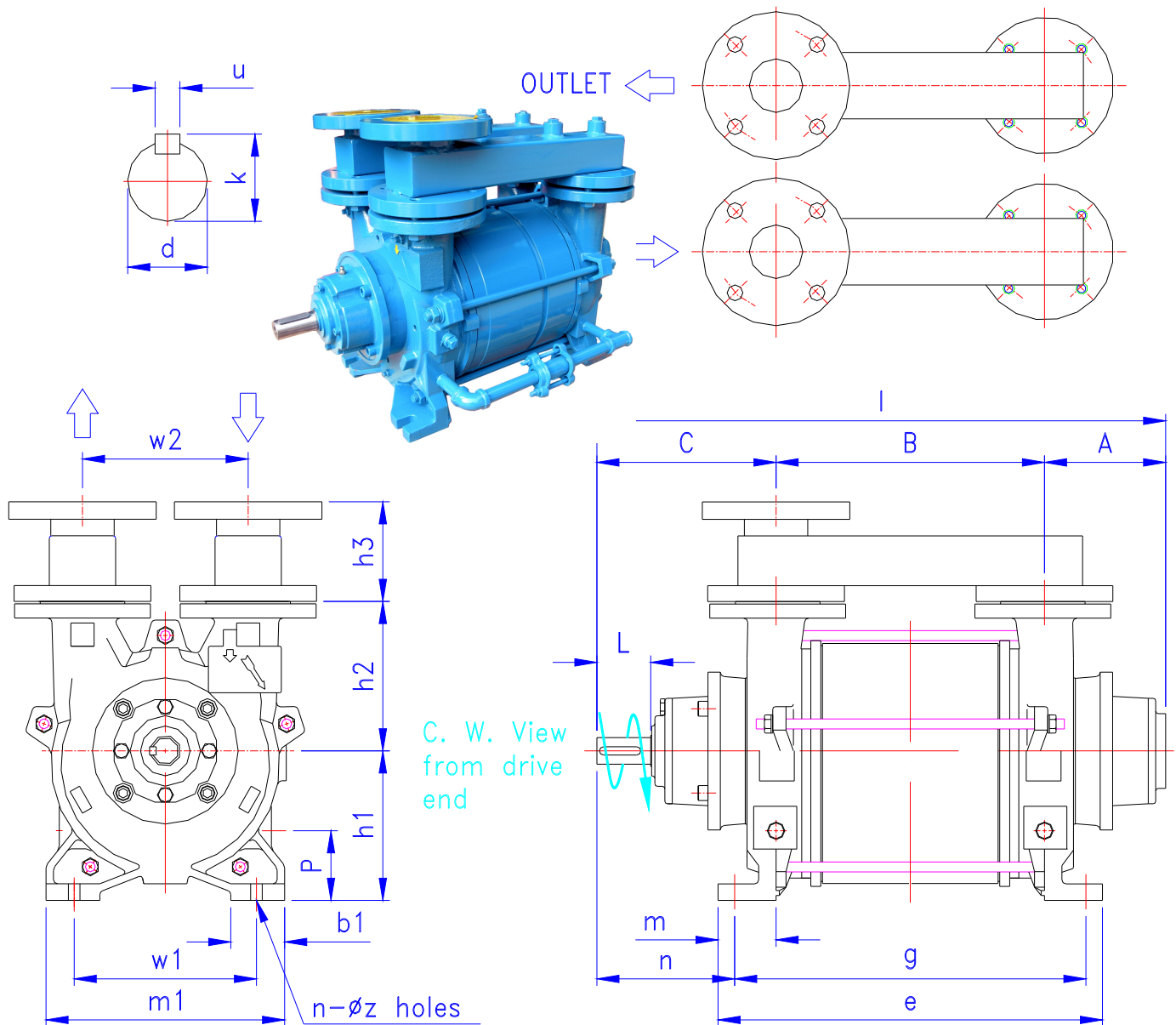


Dimensions (Bare shaft pump)



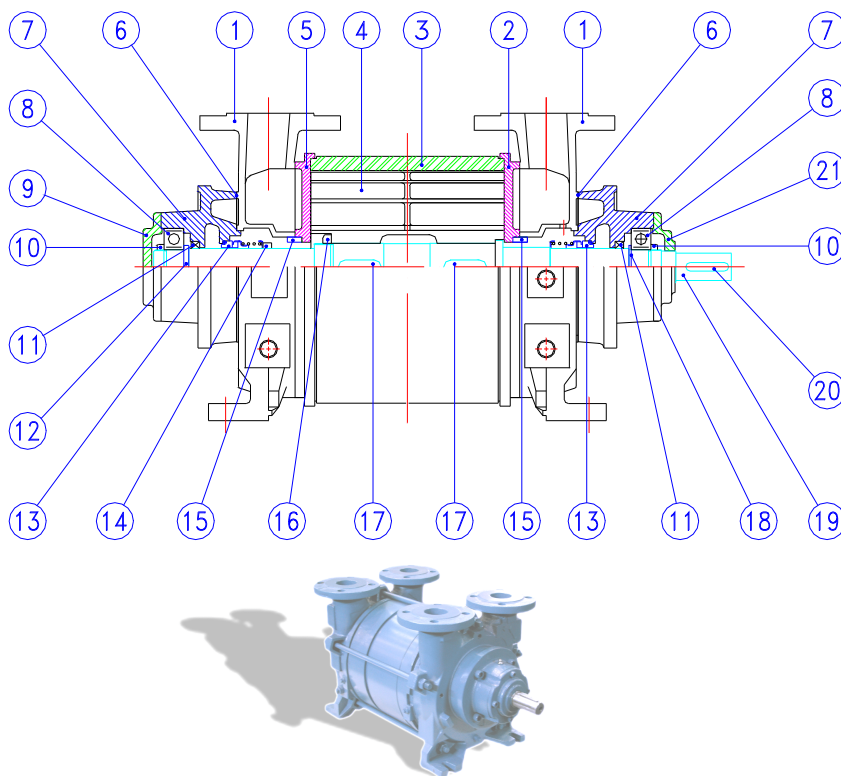
Pump Model	IN / OUT (IN)	C	G	I	L	m	n	P	g	e	h1	h2	d	k	u	w1	w2	b1	m1	n - ϕ z	Weight(Kgs)
50-220	2"	217	1/2"	510	65	70	167	84	259	293	180	180	32	35	10	220	200	70	288	3 - ϕ 16	84

Dimensions (Bare shaft pump)



Pump Model	IN / OUT (IN)	A	B	C	G	I	L	m	n	P	g	e	h1	h2	h3	d	k	u	w1	w2	b1	m1	n - ϕz	Weight (Kgs)
40-100	1 1/2"	135	165	184	1/2"	483	52	50	151	50	222	269	160	160	136	28	31	8	200	180	50	250	4 - $\phi 15$	70
40-150			195			514					252	309												114
65-300	2 1/2"	144	254	216	1/2"	614	65	70	167	80	354	394	180	180	120	32	35	10	220	200	70	288	4 - $\phi 16$	133
65-450			324			684					424	464												146
100-550	4"	168	350	229	1 1/4"	727	90	85	181	73	447	496	225	213	160	42	45	12	290	230	85	362	4 - $\phi 18$	200
100-700			415			792					512	561												230
125-1250	5"	142	472	260	1 1/2"	847	90	100	174	95	601	645	315	270	200	60	64	18	330	270	100	410	4 - $\phi 20$	436
125-1550			540			917					664	710												462

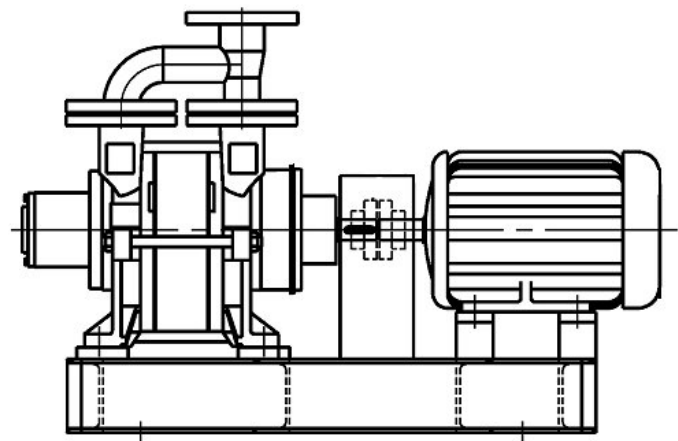
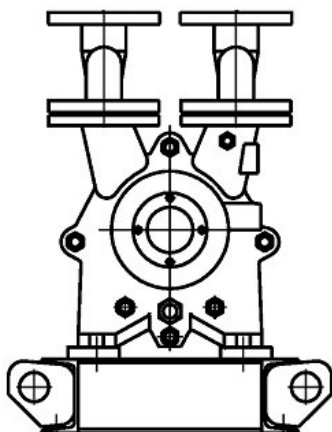
Section Drawing



Item	Name	No.
1	Head	2
2	L Side Port Plate	2
3	Housing	1
4	Rotor	1
5	F Side Port Plate	1
6	Gasket	2
7	Bearing Carrier	2
8	Bearing	2
9	F Side Bearing Cap.	1
10	Bearing Nut	2
11	Lip Seal	2
12	F Side Sims	1
13	Mech. Seal	2
14	Stopper	1
15	Orientate Ring	2
16	Rotor Nut	1
17	Rotor Key	2
18	L Side Sims	1
19	Shaft	1
20	Shaft Key	1
21	L Side Bearing Cap.	1

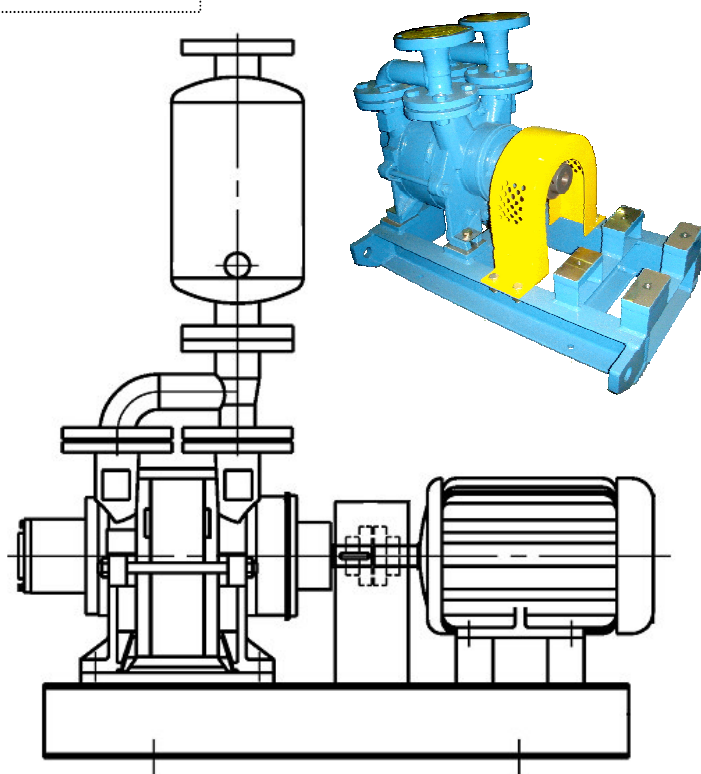
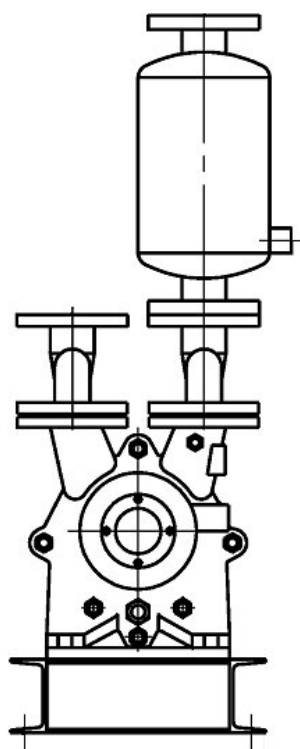
Drawing (Direct drive package)

For Reference



Drawing (Direct drive package – with Separator)

For Reference



Exploded View

