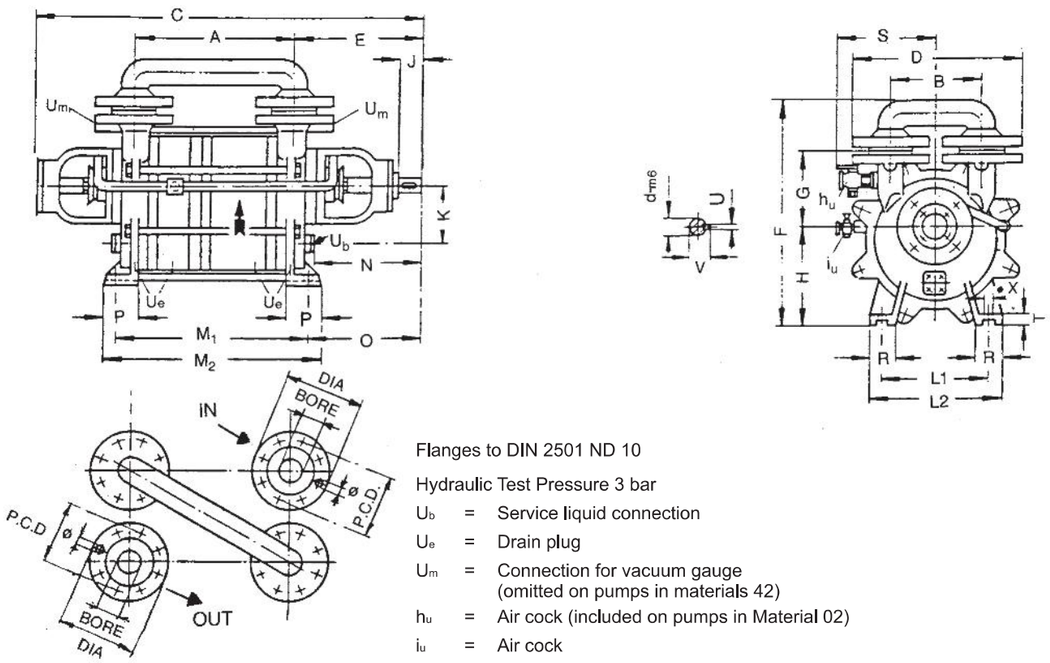
DIPOMPO
THE 'PUMP' SOLUTION

VACUUM TECHNOLOGY



Flanges to DIN 2501 ND 10

Hydraulic Test Pressure 3 bar

U_b = Service liquid connection

U_e = Drain plug

U_m = Connection for vacuum gauge (omitted on pumps in materials 42)

h_u = Air cock (included on pumps in Material 02)

i_u = Air cock

HP	Ub Service Conn.	hu Air Cock	iu	Ue Drain	Um Vac Guage Con
5600	1" BSP	1" BSP	1/4" BSP	1/4" BSP	1/4" BSP
6600	1 1/4" BSP	1 1/2" BSP	3/8" BSP	1/4" BSP	3/8" BSP
7600	2" BSP	1 1/2" BSP	3/8" BSP	1/4" BSP	3/8" BSP
8600	2 1/2" BSP	1 1/2" BSP	1/2" BSP	3/8" BSP	1/2" BSP

Type	A	B	C	D	E	F	G	H	I	K	L	M	N	O	P	Q	R	S	T	U	V	W	Holes	Y	Z	Weight
HP5612	240	376	15	300	432	20	269	210	180	885	230	241	318	326	50	125	165	70	35	10	38,5	18	4	89	1/4"	155 kg
HP5616	240	436	15	300	492	20	269	210	180	945	230	241	378	326	50	125	165	70	35	10	38,5	18	4	89	1/4"	171 kg
HP5620	240	476	15	300	532	20	269	210	180	985	230	241	418	326	50	125	165	70	35	10	39,5	18	4	89	1	180 kg
HP6616	340	504	18	400	564	20	292	250	220	1049	290	255	440	354	80	160	200	90	45	14	49,0	18	8	120	1	264 kg
HP6624	340	624	18	400	684	20	292	250	220	1169	290	255	560	354	80	160	200	90	45	14	49,0	18	8	120	1	278 kg
HP7620	400	640	20	480	710	25	352	320	275	1285	370	306	545	434	100	180	220	120	60	18	65,0	18	8	150	1 1/4"	510 kg
HP7620	400	640	20	480	710	25	352	320	275	1285	370	306	545	434	100	180	220	120	60	18	65,0	18	8	150	1 1/4"	510 kg
HP7630	400	790	20	480	860	25	352	320	275	1435	370	306	695	434	100	180	220	120	60	18	65,0	18	8	150	1 1/4"	600 kg
HP7640	400	890	20	480	960	25	352	320	275	1535	370	306	795	434	100	180	220	120	60	18	65,0	18	8	150	1 1/4"	685 kg
HP8635	520	960	24	650	1080	30	511	440	380	1939	500	473	830	636	150	240	285	160	80	18	85,0	22	8	204	2 1/4"	1460 kg
HP8645	520	1110	24	650	1230	30	511	440	380	2089	500	473	980	636	150	240	285	160	80	18	85,0	22	8	204	2 1/4"	1580 kg
HP8655	520	1210	24	650	1330	30	511	440	380	2189	500	473	1080	636	150	240	285	160	80	18	85,0	22	8	204	2 1/4"	1700 kg

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Liquid Ring Vacuum

Pump System Consultants • Pump Reconditioning • Vacuum Pump Specialists
General Plant Maintenance • General Engineers

Construction Material

Component	Pump model	Construction Code 01	Code 02	Code 42
Body, suction and discharge casings, guide discs.	All models	Cast Iron GG. 25	Cast Iron GR. 14 BS1452 220	BS1504 316C16
Centre bodies	All models	Fab. Mild Steel	Fab. Mild Steel	BS1504 316C16
*Impellers	All models	S.G.Iron	BS1504 316C16	BS1504 316C16
Shaft	HP5612/16/20 6616/24 HP7620/30/40 HP8635/45/55	(EN57) (EN57) (EN9)	BS970 431S29 (EN57) BS970 080 M46	BS970 316S16 BS970 080 M46
Shaft sleeve	HP8635/45/55	(EN8)	BS970 080 M46	BS970 316S16
Gland packing	All types		Soft packing - mechanical seal optional	

* SPECIAL S.G. IRON IMPELLER AVAILABLE FOR LPH8655 MODEL.

Service liquid requirements

The quantity of service liquid depends on the suction pressure. The flow rates for water are given below in m³/h

Suction pressure	40 mbar			70 mbar			110 mbar			150 mbar			210 mbar			350 mbar		
Operation	KB		FB	KB		FB	KB		FB	KB		FB	KB		FB	KB		FB
HP-5612	1,15	(1,9)	3,0	1,1	(1,8	2,7	1,05	(1,7)	2,5	1,0	(1,6)	2,3	0,9	(1,4)	1,0	0,85	(1,2)	1,5
HP-5616	1,35	(2,2)	3,5	1,3	(2,0	3,2	1,25	(1,9)	3,0	1,2	(1,8)	2,8	1,15	(1,6)	2,2	1,1	(1,4)	1,7
HP-5620	1,65	(2,7)	4,5	1,6	(2,6	4,2	1,55	(2,5)	3,8	1,5	(2,4)	3,5	1,35	(2,0)	2,8	1,2	(1,7)	2,2
HP-6616	2,4	(4,3)	7,0	2,4	(4,3	7,0	2,3	(4,0)	6,1	2,2	(3,7)	5,4	2,1	(3,4)	4,7	1,8	(2,6)	3,4
HP-6624	3,1	(5,3)	8,5	3,1	(5,3	8,5	3,0	(5,0)	7,4	2,8	(4,6)	6,4	2,7	(4,2)	5,7	2,4	(3,4)	4,2
HP-7620	3,3	(5,6)	8,5	3,3	(5,6	8,5	3,2	(5,2)	7,4	3,1	(4,8)	6,5	3,0	(4,4)	5,7	2,5	(3,5)	4,2
HP-7630	4,1	(6,4)	9,0	4,1	(6,4	9,0	3,9	(5,9)	7,8	3,7	(5,4)	7,0	3,5	(4,9)	6,0	2,9	(3,8)	4,4
HP-7640	4,5	(6,9)	9,5	4,5	(6,9	9,5	4,3	(6,3)	8,3	4,1	(5,8)	7,4	3,9	(5,3)	6,4	3,2	(4,1)	4,7
HP-8635	6,4	(10.2)	14,0	6,4	(10,0)	14,0	6,4	(9,4)	12,0	6,0	(8,5)	10.5	5,7	(7,8)	9,4	4,7	(6,0)	6,9
HP-8645	7,5	(11.5)	15,5	7,5	(11,5)	15,5	7,4	(10,5)	13,5	7,0	(9,5)	12.0	6,6	(8,8)	10,5	5,4	(6,7)	7,6
HP-8655	8,7	(13.5)	18,0	8,7	(13,5)	18,0	8,6	(12,0)	15,5	8,1	(11,1)	14.0	7,7	(10,0)	12,0	6,2	(7,7)	8,8

KB: Partial recirculation of the service liquid. The data shows the water flow requirements when the service water is 3°C (alternatively 1°C warmer than the make-up water supply.

FB: Once through service liquid.

Technical Data

Pump Type	Unit	HP 5612	HP 5616	HP 5620	HP 6616	HP 6624	HP 7620	HP 7630	HP 7640	HP 8635	HP 8645	HP 8655
Normal rotational speed	RPM	1450	1450	1450	1450	1450	960	960	960	735	735	735
Pumping capacity at suction 150 mbar (110 TORR)	m³/h	280	345	420	540	780	830	1260	1620	2050	2650	3150
Moment of inertia	kp - m²	0,55	0,65	0,82	1,4	2,1	5,0	7,3	8,7	34,0	43,5	49,5
Motor power	kW	11	11	15	18,5	30	30	37	45	75	75	90
Overall dimensions of pump complete with motor and baseplate. Length / width/height	mm	2550/500/590	1590/580/610	1690/580/620	1790/640/710	2020/620/780	2100/660/540	2440/750/940	2610/820/940	3120/950/1240	3270/1000/1240	3490/1090/1260
Mass of pump bareshaft	kg	160	170	180	275	310	500	580	650	1500	1670	1700
Mass of pump with coupling, mounted on baseplate	kg	244	282	292	422	459	668	765	835	1851	1951	2200
Mass of pump with standard motor, baseplate, coupling and guard	kg	358	391	427	592	724	1008	1215	1415	2851	2951	3270
Coupling size “Fentaflex” with taper bushes		F60	F60	F60	F80	F90	F90	F100	F120	F140	F140	F140
Heat absorbed when compressing air from 40 to 1020 mbar	kJ/s	6,2	6,9	8,4	13,5	17,6	19,2	27,9	30,2	45,4	54,6	62,8

SINGLE STAGE VACUUM PUMPS ARE ALSO AVAILABLE.

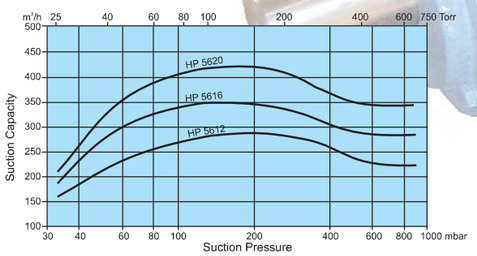
Pumping Capacity and Power Consumption

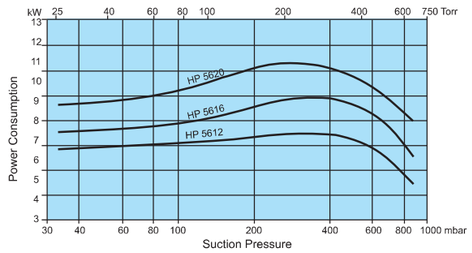
The data given is for pumping dry air at 20°C with water at 15°C as the service liquid.

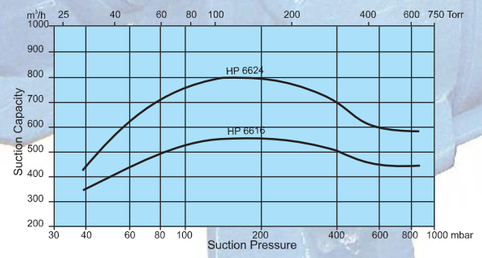
Tolerance: 10% between pressures 33 - 200 mbar

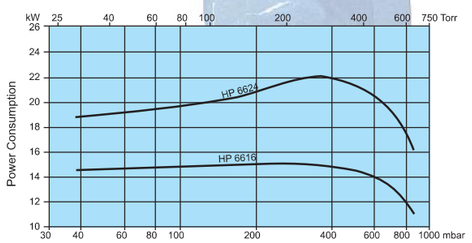
Pumps in materials of Code 42 the suction capacity is approximately 10% less than that shown.

RPM 1450

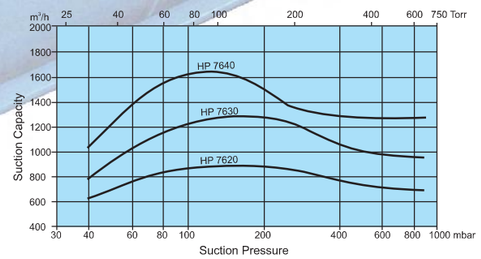


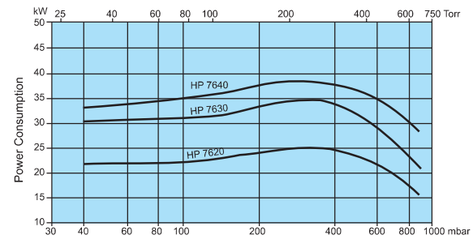
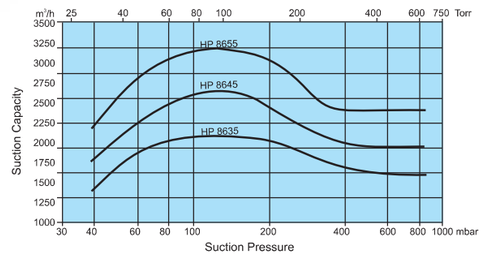
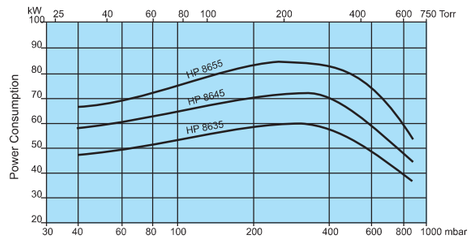






RPM 960





RPM 735