



dharani[®] PUMPS

Multistage Pumps



PERFECT ENGINEERS
THE PERFECT PUMP

Vertical Multistage Pumps

dharani® Vertical multistage pumps are built intelligently for a variety of applications. The pump series classify as non-self priming centrifugal pumps with multiple stages to achieve different head and discharge. All our pumps are fitted with Energy efficient motors which conform to IEC standard.

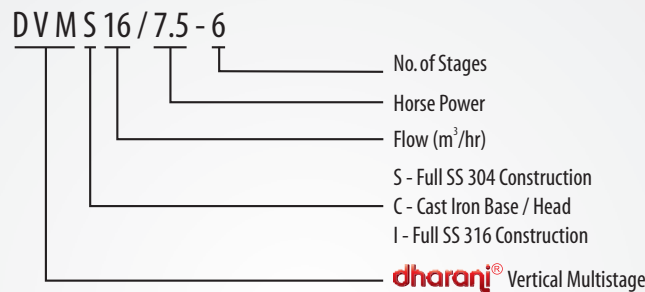
The Pump

The construction of these pumps are robust and are built for long usage. The stainless steel Impellers & Diffusers are welded using state-of-the-art Capacitor discharge Projection welding machines and laser welding machines. The pump top and bottom chambers are made of Investment Castings. In order to suit a variety of applications and usage our Vertical Multistage Pumps come in three different material of construction. Kindly refer to our application chart to select the right model.

The Motor

All our pumps are fitted with Energy efficient motors which conform to IEC standard. Customers have the option of requesting for a higher efficiency motor like IE2 or IE3.

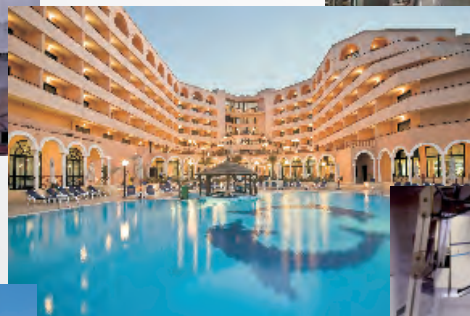
Product Reference



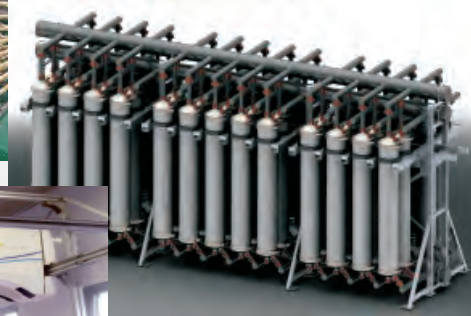
Boiler Feed



Filtration Systems



Hotels & Resorts



Reverse Osmosis



Apartments & Commercial Buildings



Car Wash



Green Houses



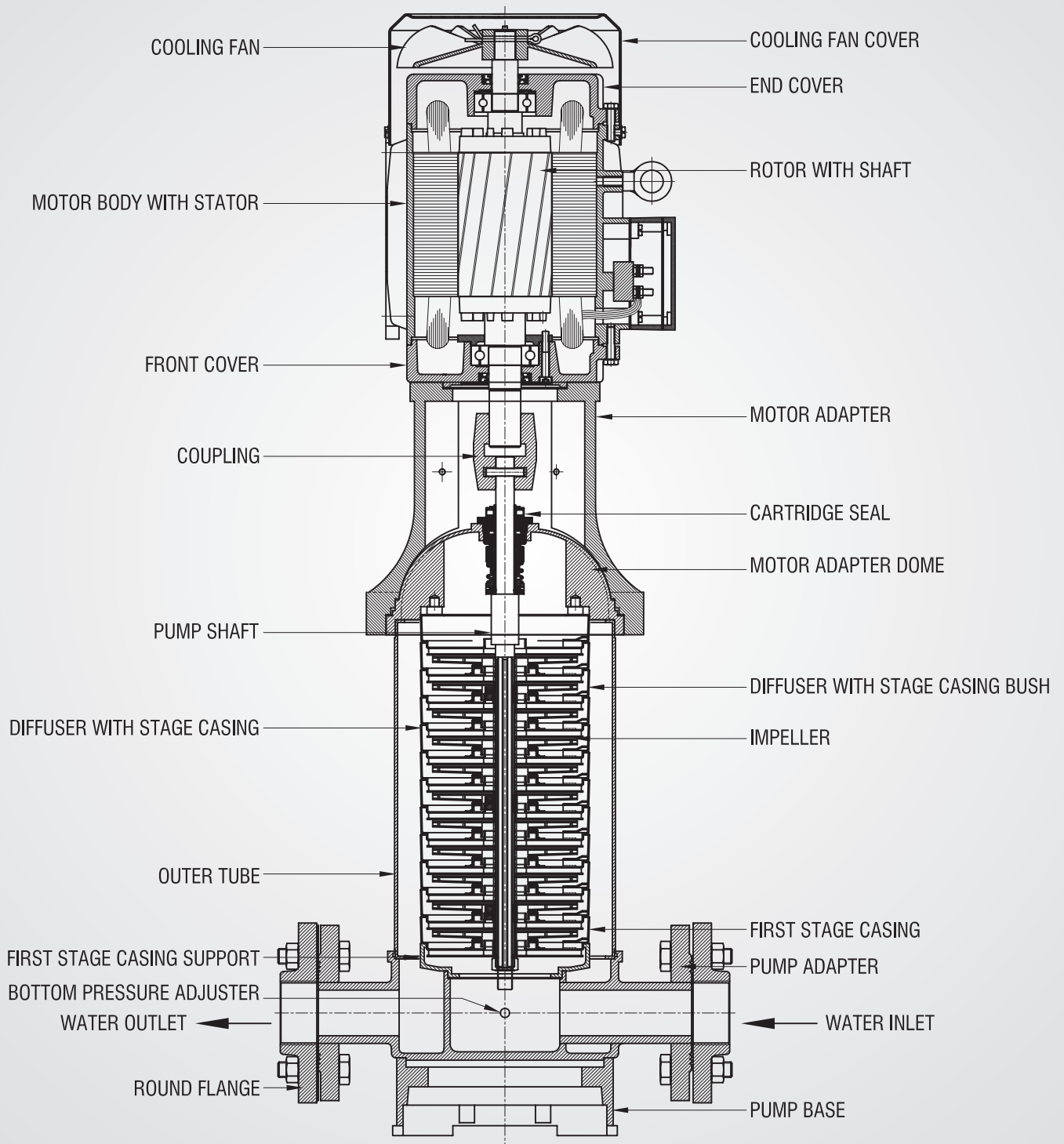
Irrigation & Distribution

Variety of Applications

Applications	DVMS	DVMC	DVMI
WATER SUPPLY, DISTRIBUTION			
Distribution from Waterworks	●	●	○
Pressure boosting in Mains	●	●	○
Pressure boosting in High Rise Buildings, Apartments, Hotels etc.	●	●	○
Pressure boosting for Industrial Water Supply	●	●	○
Filtration and Transfer at Waterworks	●	●	○
INDUSTRIES			
Liquid transfer in ...			
Machine Tools - Coolant lubricant	●		●
Boiler feed and condensate systems	●		○
Cooling & Air-conditioning systems	●	●	○
Aqua-farming	●	●	○
Pressure boosting in...			
Water Supply Systems	●	●	●
Car Washing Stations	●	●	○
Cleaning Systems	●	●	●
Fire Fighting Systems	●	●	
Transfer of...			
Alcohols and Oils	●		●
Acids and alkalis	●		●
Coolants and glycols	●		
WATER TREATMENT			
Reverse Osmosis Systems	●		●
Distillation Systems	●		●
Micro Filtration Systems	●		●
Softening Systems	●		●
Swimming Pools	●		○
IRRIGATION SYSTEMS			
Field and Glass House Irrigation	●	●	○
Sprinkler Irrigation	●	●	○
Drip Irrigation	●	●	○

● Recommended models

○ Alternate better model



DVMS - Vertical Multistage Pumps

Characteristics

- Energy efficient motor
- Robust pump construction
- Liquid temperature: -15°C to 110°C
- Ambient temperature upto 40°C

Material of Construction

Part Name	Material
Motor Housing	Aluminium / Cast Iron
Pump Base & Adaptor	Cast Iron
Pump Chamber	Cast Iron / SS 304 / SS 316
Impeller	SS 304 / SS 316
Diffuser	SS 304 / SS 316
Shaft	SS 431
Mechanical Seal	Tungsten Carbide Vs. Graphite



Performance

Single Phase, 3000 RPM (Syn.), 50 Hz, 220 V; 1.0 - 3.0 HP

Three Phase, 3000 RPM (Syn.), 50 Hz, 415 V

S.No.	Model	kW	HP	Stage	Pipe Size (inches)	Total Head in Meters	Discharge (m³/h)								DVMS 2
							1	1.2	1.6	2	2.4	2.8	3.2	3.5	
1	DVMS 2/1.0-7	0.75	1.0	7	1" x 1"		61	59	55	50	45	39	41	26	
2	DVMS 2/1.5-11	1.10	1.5	11	1" x 1"		95	92	86	79	70	61	51	41	
3	DVMS 2/2.0-13	1.50	2.0	13	1" x 1"		113	111	103	94	86	75	62	49	
4	DVMS 2/2.0-15	1.50	2.0	15	1" x 1"		130	126	119	108	96	86	69	56	
5	DVMS 2/3.0-18	2.20	3.0	18	1" x 1"		156	152	143	130	116	103	86	71	
6	DVMS 2/3.0-22	2.20	3.0	22	1" x 1"		192	187	175	160	143	125	105	85	
7	DVMS 2/4.0-26	3.00	4.0	26	1" x 1"		227	223	209	190	174	153	123	105	

S.No.	Model	kW	HP	Stage	Pipe Size (inches)	Total Head in Meters	Discharge (m ³ /h)								DVMS 4
							1.5	2	3	4	5	6	7	8	
1	DVMS 4/1.0-4	0.75	1.0	4	1¼" x 1¼"		37	35	33	31	26	23	16	12	
2	DVMS 4/1.5-6	1.10	1.5	6	1¼" x 1¼"		56	52	50	46	39	35	26	18	
3	DVMS 4/2.0-8	1.50	2.0	8	1¼" x 1¼"		72	70	68	62	53	48	36	25	
4	DVMS 4/3.0-12	2.20	3.0	12	1¼" x 1¼"		111	105	101	93	82	72	55	38	
5	DVMS 4/4.0-14	3.00	4.0	14	1¼" x 1¼"		132	122	118	108	79	85	64	44	
6	DVMS 4/4.0-16	3.00	4.0	16	1¼" x 1¼"		148	140	136	124	111	97	74	51	
7	DVMS 4/5.0-19	3.70	5.0	19	1¼" x 1¼"		178	166	163	147	132	117	88	62	
8	DVMS 4/5.0-22	3.70	5.0	22	1¼" x 1¼"	205	194	186	170	154	132	102	73		

THE PERFECT PUMP

S.No.	Model	kW	HP	Stage	Pipe Size (inches)	Total Head in Meters	Discharge (m ³ /h)							
							5	6	7	8	9	10	11	12
1	DVMS 8/1.5-3	1.1	1.5	3	1½"x 1½"	Total Head in Meters			25	26	21	19	17	13
2	DVMS 8/2.0-4	1.5	2.0	4	1½"x 1½"		40	39	38	35	34	31	29	26
3	DVMS 8/3.0-6	2.2	3.0	6	1½"x 1½"		60	58	56	52	51	47	43	39
4	DVMS 8/4.0-8	3.0	4.0	8	1½"x 1½"		81	78	76	70	68	63	58	52
5	DVMS 8/5.0-10	3.7	5.0	10	1½"x 1½"		101	97	94	87	85	77	72	65
6	DVMS 8/7.5-14	5.5	7.5	14	1½"x 1½"		142	136	132	122	119	109	101	91
7	DVMS 8/7.5-16	5.5	7.5	16	1½"x 1½"		162	156	151	140	136	126	116	104
8	DVMS 8/10.0-20	7.5	10.0	20	1½"x 1½"		203	195	189	175	170	157	145	130

DVMS 8

S.No.	Model	kW	HP	Stage	Pipe Size (inches)	Total Head in Meters	Discharge (m ³ /h)							
							8	10	12	14	16	18	20	22
1	DVMS 16/3.0-2	2.2	3.0	2	2" x 2"	Total Head in Meters	28	27	26	25	22	21	19	17
2	DVMS 16/4.0-3	3.0	4.0	3	2" x 2"		42	41	39	37	34	32	29	26
3	DVMS 16/5.0-4	3.7	5.0	4	2" x 2"		56	54	52	50	46	44	38	34
4	DVMS 16/7.5-6	5.5	7.5	6	2" x 2"		83	81	78	75	69	64	58	52
5	DVMS 16/10.0-8	7.5	10.0	8	2" x 2"		111	108	105	100	92	86	77	70
6	DVMS 16/15.0-10	11.0	15.0	10	2" x 2"		139	136	131	125	115	108	97	87
7	DVMS 16/15.0-12	11.0	15.0	12	2" x 2"		167	163	157	150	138	129	116	105
8	DVMS 16/20.0-14	15.0	20.0	14	2" x 2"		194	190	184	175	161	151	136	122
9	DVMS 16/20.0-16	15.0	20.0	20	2" x 2"		222	217	210	200	184	173	156	140

DVMS 16

S.No.	Model	kW	HP	Stage	Pipe Size (inches)	Total Head in Meters	Discharge (m ³ /h)							
							14	18	20	22	24	26	28	30
1	DVMS 24/3.0-2	2.2	3.0	2	2" x 2"	Total Head in Meters	26	24	22	21	20	18	15	13
2	DVMS 24/5.0-3	3.7	5.0	3	2" x 2"		39	37	34	32	30	27	24	21
3	DVMS 24/7.5-5	5.5	7.5	5	2" x 2"		64	60	56	54	51	45	40	35
4	DVMS 24/10.0-7	7.5	10.0	7	2" x 2"		91	86	80	75	70	65	58	53
5	DVMS 24/15.0-10	11.0	15.0	10	2" x 2"		131	124	115	111	102	95	85	78
6	DVMS 24/20.0-14	15.0	20.0	14	2" x 2"		185	174	161	152	144	133	119	104
7	DVMS 24/25.0-17	18.5	25.0	17	2" x 2"		225	212	196	185	175	162	145	125

DVMS 24

S.No.	Model	kW	HP	Stage	Pipe Size (inches)	Total Head in Meters	Discharge (m ³ /h)						
							16	20	24	28	32	36	40
1	DVMS 32/5.0-2	3.7	5.0	2	2½" x 2½"		36	34	32	29	27	23	18
2	DVMS 32/7.5-3	5.5	7.5	3	2½" x 2½"		54	51	48	44	39	35	27
3	DVMS 32/10.0-4	7.5	10.0	4	2½" x 2½"		72	68	65	59	53	47	37
4	DVMS 32/15.0-6	11.0	15.0	6	2½" x 2½"		108	102	97	90	81	72	57
5	DVMS 32/20.0-8	15.0	20.0	8	2½" x 2½"		144	137	129	120	109	97	76
6	DVMS 32/25.0-10	18.5	25.0	10	2½" x 2½"		180	171	162	151	137	121	96
7	DVMS 32/30.0-11	22.5	30.0	11	2½" x 2½"		196	188	178	166	151	134	105
8	DVMS 32/40.0-12	30.0	40.0	12	2½" x 2½"		216	205	194	182	165	146	115
9	DVMS 32/40.0-14	30.0	40.0	14	2½" x 2½"		252	239	227	212	193	171	135
10	DVMS 32/40.0-15	30.0	40.0	15	2½" x 2½"		270	256	243	227	206	183	144

DVMS 32

S.No.	Model	kW	HP	Stage	Pipe Size (inches)	Total Head in Meters	Discharge (m ³ /h)						
							25	30	35	40	45	50	55
1	DVMS 45/10.0-2	7.5	10.0	2	3" x 3"		48	46	44	42	39	35	31
2	DVMS 45/15.0-3	11.0	15.0	3	3" x 3"		71	69	66	63	58	53	47
3	DVMS 45/20.0-4	15.0	20.0	4	3" x 3"		95	92	88	84	77	71	62
4	DVMS 45/25.0-5	18.5	25.0	5	3" x 3"		118	115	110	105	97	89	78
5	DVMS 45/30.0-6	22.5	30.0	6	3" x 3"		142	138	132	125	116	107	93
6	DVMS 45/40.0-8	30.0	40.0	8	3" x 3"		189	184	176	167	154	143	124
7	DVMS 45/50.0-10	37.5	50.0	10	3" x 3"		236	230	220	209	193	179	155
8	DVMS 45/60.0-12	45.0	60.0	12	3" x 3"		283	276	264	251	233	215	186

DVMS 45

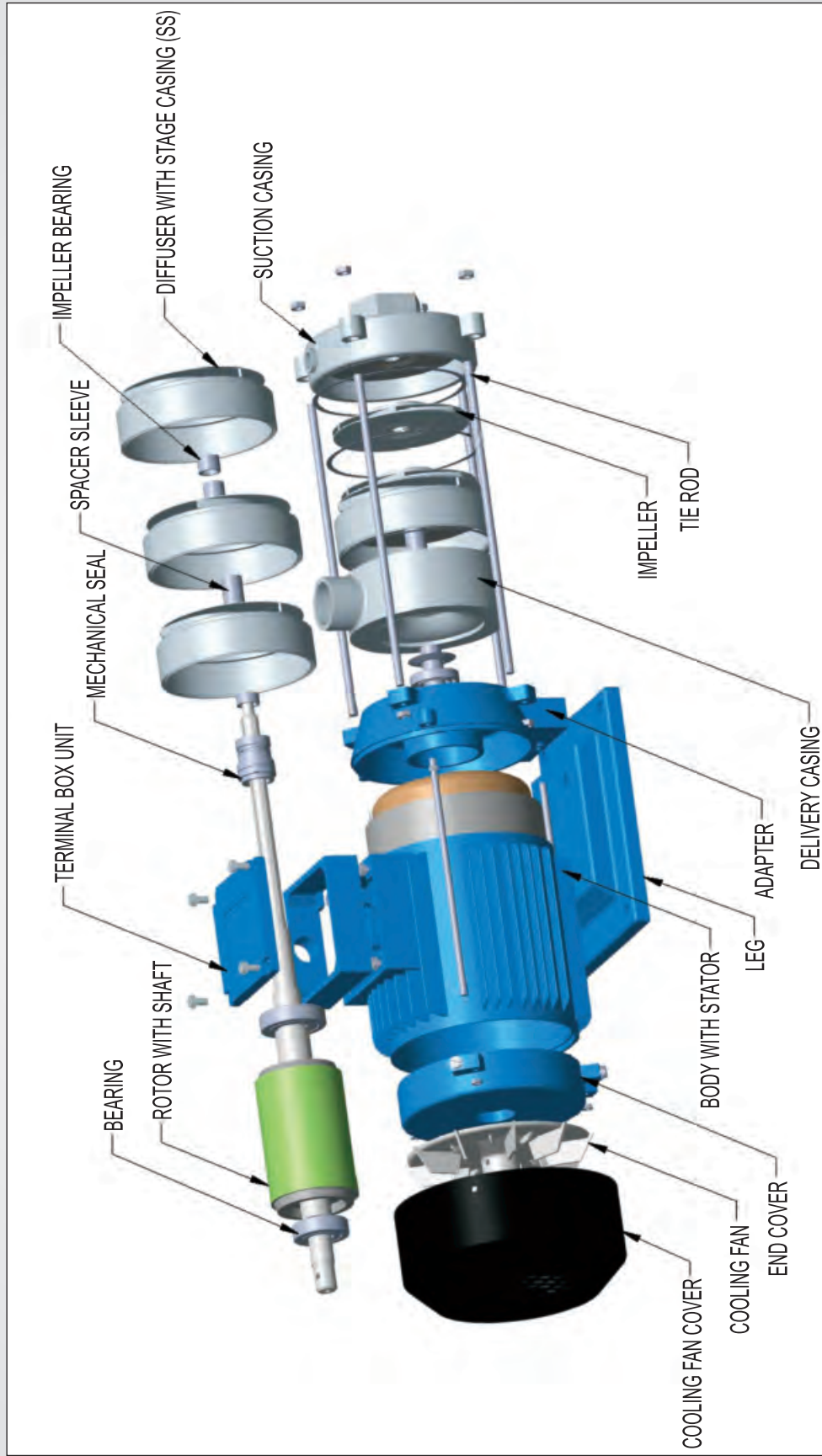
S.No.	Model	kW	HP	Stage	Pipe Size (inches)	Total Head in Meters	Discharge (m ³ /h)					
							30	40	50	60	70	80
1	DVMS 64/15.0-2	11.0	15.0	2	4" x 4"		55	53	49	46	42	36
2	DVMS 64/25.0-3	18.5	25.0	3	4" x 4"		84	81	76	71	63	56
3	DVMS 64/30.0-4	22.5	30.0	4	4" x 4"		112	107	102	94	85	75
4	DVMS 64/40.0-5	30.0	40.0	5	4" x 4"		141	136	129	120	108	96
5	DVMS 64/50.0-6	37.5	50.0	6	4" x 4"		170	164	155	145	131	115
6	DVMS 64/60.0-7	45.0	60.0	7	4" x 4"		202	195	185	172	155	136
7	DVMS 64/60.0-8	45.0	60.0	8	4" x 4"		223	215	203	189	170	147

DVMS 64

S.No.	Model	kW	HP	Stage	Pipe Size (inches)	Total Head in Meters	Discharge (m ³ /h)							
							45	50	60	70	80	90	100	110
1	DVMS 90/20.0-2	15.0	20.0	2	4" x 4"		58	56	55	51	47	43	38	32
2	DVMS 90/30.0-3	22.5	30.0	3	4" x 4"		87	85	81	76	71	65	58	51
3	DVMS 90/40.0-4	30.0	40.0	4	4" x 4"		116	113	108	101	95	88	80	70
4	DVMS 90/50.0-5	37.5	50.0	5	4" x 4"		148	144	137	129	121	112	100	88
5	DVMS 90/60.0-6	45.0	60.0	6	4" x 4"		179	175	166	157	147	136	123	107

DVMS 90

Horizontal Multistage Pumps

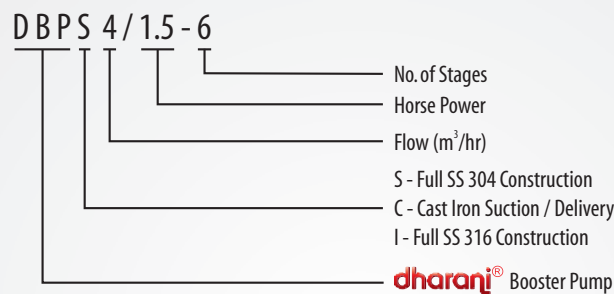


Horizontal Multistage Pumps

dharani® horizontal multistage pumps are a class apart in terms of construction and superior performance. These pumps are designed to work very quietly and withstand high pressures without any drop in pressure. The construction of these pumps are very robust and in the case of pressure boosting application it allows them to operate smoothly even during frequent starts and stops. In our DBPS & DBPI models, all the wetted parts including the suction chamber, delivery chamber, Impellers, Diffusers and other parts that are in contact with the pumped liquid are fully Stainless Steel.

All the stainless steel components are manufactured very precisely to achieve the hydraulic efficiency as per our original design. The design of our high efficiency Stainless Steel Impellers directly result in very low maintenance of the pump. The usage of high grade material with minimum watt loss for the lamination and Intelligent winding design are some of the key strengths of our strong motor. Especially when a multistage pump is used in pressure boosting application it is essential to have a strong motor for handling the load and achieving high energy savings.

Product Reference



Areas of Usage

- Small Homes, Large Homes, Apartments & Hotels
- Air Conditioning & Cooling Systems
- Industrial Cleaning
- R.O Plants
- Water Treatment & Purification
- General water Transfer or Irrigation around the home.

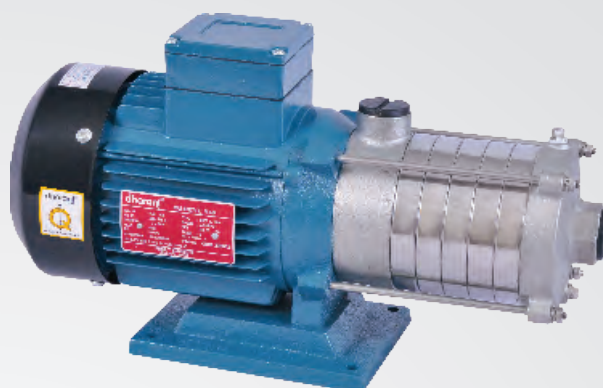
Applications

- Pressure Boosting in Houses, Villas, Small Buildings
- Feed Pumps for R.O. Systems, Mills etc.
- Recycling of Refrigerants
- Very Light & Non Aggressive Chemicals Transfer
- Water Distribution in Greenhouses

DBPS - SS Horizontal Multistage Pumps

Characteristics

- High Efficiency motor
- Clean water not containing abrasive particles
- Heavy duty construction
- Liquid temperature: -15°C to 110°C
- Ambient temperature upto 40°C



Material of Construction

Part Name	Material
Motor Housing	Aluminium / Cast Iron
Pump Suction	SS304 / Cast Iron / SS316
Pump Delivery	SS304 / Cast Iron / SS316
Impeller	SS304 / SS316
Diffuser	SS304 / SS316
Shaft	SS 431
Mechanical Seal	Tungsten Carbide Vs. Graphite



Performance

Single Phase, 3000 RPM (Syn.), 50 Hz, 220-240 V, Capacitor start and run motor; 0.5 - 2.0 HP
 Three Phase, 3000 RPM (Syn.), 50 Hz, 415 V

S.No.	Model	kW	HP	Stage	Pipe Size	Total Head in Meters	Discharge (m ³ /h)						
							0.5	1	1.5	2	2.5	3	3.5
1	DBPS 2/0.50-3	0.37	0.50	3	1" x 1"		27	26	23	22	19	16	12
2	DBPS 2/0.75-5	0.55	0.75	5	1" x 1"		44	41	38	34	31	28	20
3	DBPS 2/1.0-6	0.75	1.00	6	1" x 1"		53	52	48	45	42	35	26

S.No.	Model	kW	HP	Stage	Pipe Size	Total Head in Meters	Discharge (m ³ /h)						
							1	2	3	4	5	6	7
1	DBPS 4/0.50-2	0.37	0.50	2	1¼" x 1"		18	17	16	15	13	10	8
2	DBPS 4/0.75-3	0.55	0.75	3	1¼" x 1"		26	25	22	21	19	16	13
3	DBPS 4/1.0-4	0.75	1.00	4	1¼" x 1"		35	33	31	29	25	22	19
4	DBPS 4/1.5-6	1.10	1.50	6	1¼" x 1"		52	50	47	44	38	32	24

S.No.	Model	kW	HP	Stage	Pipe Size	Total Head in Meters	Discharge (m ³ /h)						
							5	6	7	8	9	10	11
1	DBPS 8/1.0-2	0.75	1.0	2	1½" x 1½"		22	21	19	18	16	15	15
2	DBPS 8/1.5-3	1.10	2.0	3	1½" x 1½"		30	28	27	26	23	21	18
3	DBPS 8/2.0-4	1.50	2.0	4	1½" x 1½"		40	39	37	34	32	29	25
4	DBPS 8/3.0-5	2.20	3.0	5	1½" x 1½"		49	47	45	42	38	34	29

S.No.	Model	kW	HP	Stage	Pipe Size	Total Head in Meters	Discharge (m ³ /h)						
							8	10	12	16	18	20	22
1	DBPS 16/3.0-2	2.00	3.0	2	2" x 2"		25	24	23	21	19	17	16
2	DBPS 16/4.0-3	3.00	4.0	3	2" x 2"		38	37	35	31	28	25	21

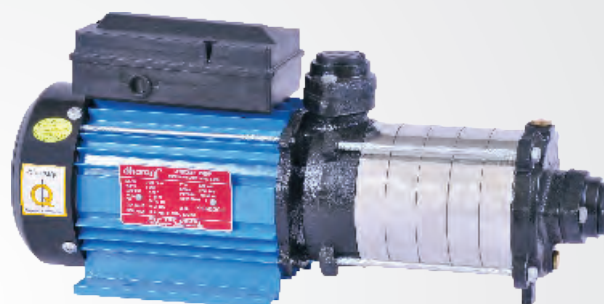
DBP - Horizontal Multistage Pumps

Characteristics

- Clean water not containing abrasive particles
- Compact & Light weight design
- Ambient temperature upto 40°C

Material of Construction

Part Name	Material
Motor Housing	Aluminium
Pump Suction	Cast Iron
Pump Delivery	Cast Iron
Impeller	Noryl
Diffuser	Noryl
Shaft	SS410
Mechanical Seal	Tungsten Carbide Vs. Graphite



Performance

Single Phase 3000 RPM (Syn.) 50 Hz, 220-240 V, Capacitor start and run motor

Three Phase 3000 RPM (Syn.) 50 Hz, 415 V

S.No.	Model	kW	HP	Stage	Pipe Size	Total Head in Meters	Discharge (m ³ /h)						
							0.7	1.2	1.8	2.4	3	3.6	4.2
1	DBP 2/0.5-3	0.37	0.50	3	1" x 1"		28	25	20	16	12	8	4
2	DBP 2/0.75-4	0.55	0.75	4	1" x 1"		37	33	27	22	17	11	6
3	DBP 2/1.0-5	0.75	1.00	5	1" x 1"		47	41	34	28	21	14	7

S.No.	Model	kW	HP	Stage	Pipe Size	Total Head in Meters	Discharge (m ³ /h)							
							1	2	3	4	5	6	7	8
1	DBP 4/0.75-3	0.55	0.75	3	1¼" x 1"		31	29	26	22	18	14	9	4
2	DBP 4/1.00-4	0.75	1.00	4	1¼" x 1"		40	37	33	29	24	18	12	5
3	DBP 4/1.25-5	0.93	1.25	5	1¼" x 1"		50	49	44	39	33	25	16	8

THE PERFECT PUMP

Save Water*Save Earth*

We are a group of companies with social responsibilities

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