

Construction

Submersible vertical sump large series pumps with radial and mixed flow impellers materials gives high discharge properties. The life span of the pump set is comparatively higher than its competitors with higher durability.

Applications

- Agriculture
- Domestic Building Services
- Commercial Building Services
- Public Utilities

Water filled Rewindable motor

- 2-pole Induction motor, 50Hz (n= 2900 rpm)
- For Three Phase 415V (50Hz)
- Voltage tolerances : +6% -15%
- Insulation class : B

Operating Conditions

 \bullet Liquid temperature : upto 33 °C

• Total Solids : 3000ppm (Max.)

• Durability : 50ppm (Silica Scale Max.)

Continuous duty

Special features

- High discharge and high head
- Total Hardened SS Shaft
- Can pump water through long distances
- Fast discharge variant from low to high
- Special grade casting materials
- Rotor made of 99.9 % EC grade Copper

MATERIAL SPECIFICATIONS

PUMP

Components	Materials
Diffuser	Cast Iron FG 200
Impeller	Cast Iron FG 200, Gun Metal, SS 304
Sleeve	SS 410
Flange	SG 400/12, MS
Tie-Rod	SS 410
Strainer	SS 202
Intermediate piece	Cast Iron FG 200

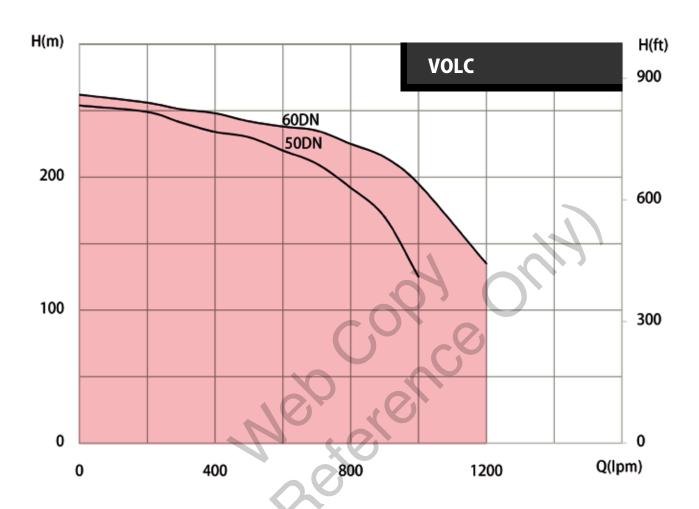
MOTOR

Components	Materials
Base	Cast Iron FG 200
Body	MS
Lower	Cast Iron FG 200
Upper	Cast Iron FG 200
Rotor shaft	SS 420
Thrust bearing	Carbon + SS 410
Seal	Natural Rubber
Bearing bush	LTB4





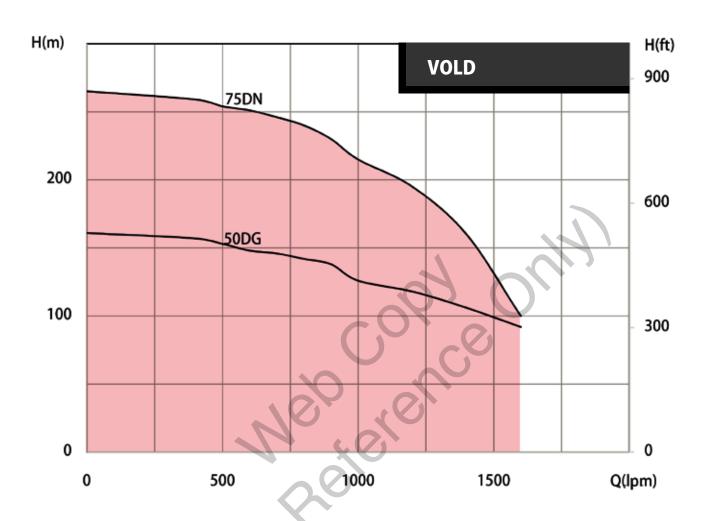
Characteristic Curves



Product	НР	kW	Phase	Q - m³/hr	0	12	18	24	30	36	42	48	54	60	72	DNM
Code	1	KVV	riiase	Q - I/min	0	200	300	400	500	600	700	800	900	1000	1200	DIVIM
VOLC50DN/10	50.0	37.5	Т	Total	254	249	241	234	230	220	210	192	170	125		3"
VOLC60DN/10	60.0	45.0	Т	Head in	262	256	251	248	242	238	235	225	215	195	135	3"
				meters												



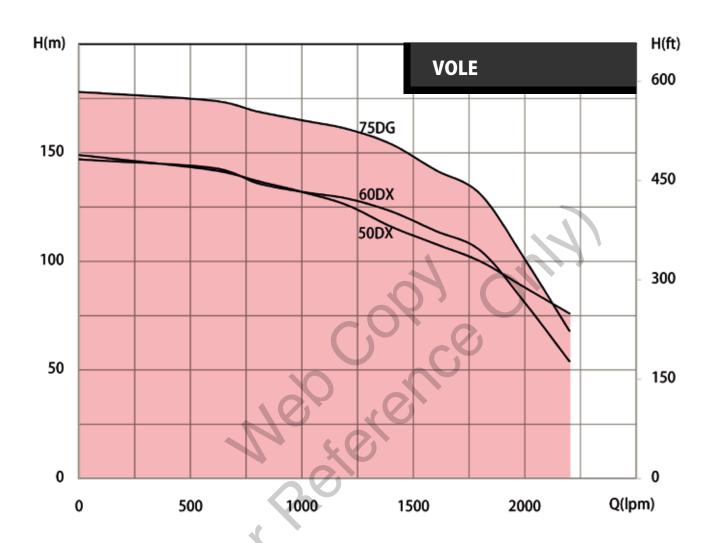
Characteristic Curves



Product	НР	kW	Phase	Q - m³/hr	0	24	30	36	42	48	54	60	72	84	96	108	DNM
Code	nr.	KVV	riiase	Q - I/min	0	400	500	600	700	800	900	1000	1200	1400	1600	1800	DIVIM
VOLD50DG/8	50.0	37.5	Т	Total	166	161	157	153	148	146	142	138	126	118	106	92	3"
VOLD75DN10	75.0	56.0	Т	Head in	265	259	254	251	246	240	230	215	195	160	100	-	3"
				meters													



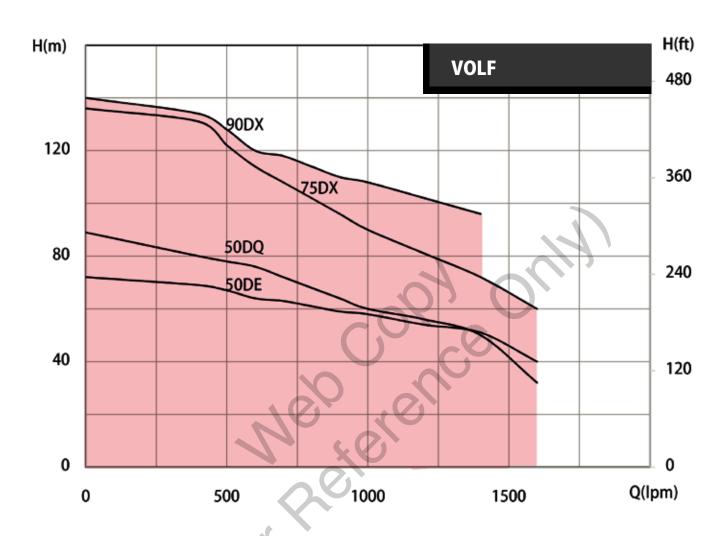
Characteristic Curves



Product	MODEL/	НР	kW	Phase	Q - m³/hr	0	36	48	60	72	84	96	108	120	132	DNM
Code	STAGE	nr	KVV	riidse	Q - I/min	0	600	800	1000	1200	1400	1600	1800	2000	2200	DINIM
VOLE50DX/6	50DX/6	50.0	37.5	T	Total	149	142	137	132	126	116	108	100	88	76	4"
VOLE60DX/6	60DX/6	60.0	45.0	T	Head in	147	143	136	132	129	123	114	105	81	54	5"
VOLE75DG/8	75DG/8	75.0	55.0	T	meters	178	174	169	165	161	154	142	131	101	68	4"



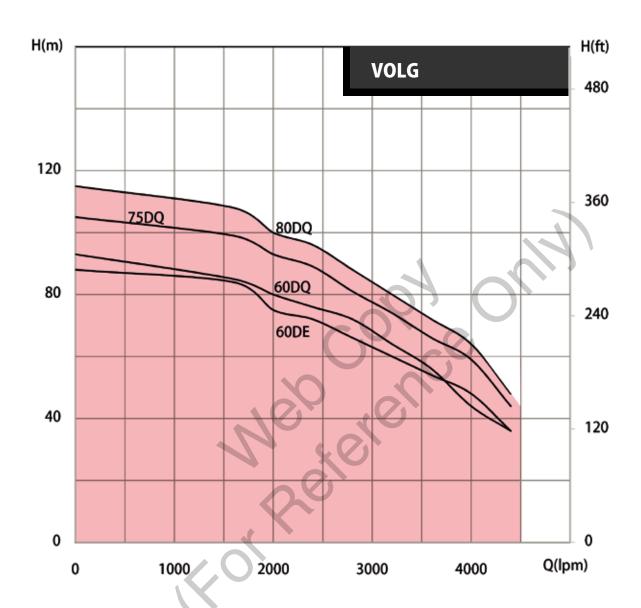
Characteristic Curves



Product	Code HP kW	LW	Phase	Q - m³/hr	0	96	108	120	132	144	156	168	180	192	204	DNM
Code		KVV	riiase	Q - I/min	0	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	DINIVI
VOLF50DE/3	50.0	37.5	Т		72	69	67	64	63	61	59	58	54	51	40	6"
VOLF50DQ/4	50.0	37.5	Т	Total Head in	89	80	78	76	72	68	64	60	56	50	32	6"
VOLF75DX/6	75.0	56.0	Т	meters	136	131	122	114	108	102	96	90	81	72	60	6"
VOLF90DX/6	90.0	67.0	Т		140	134	128	120	118	114	110	108	102	96	-	4"



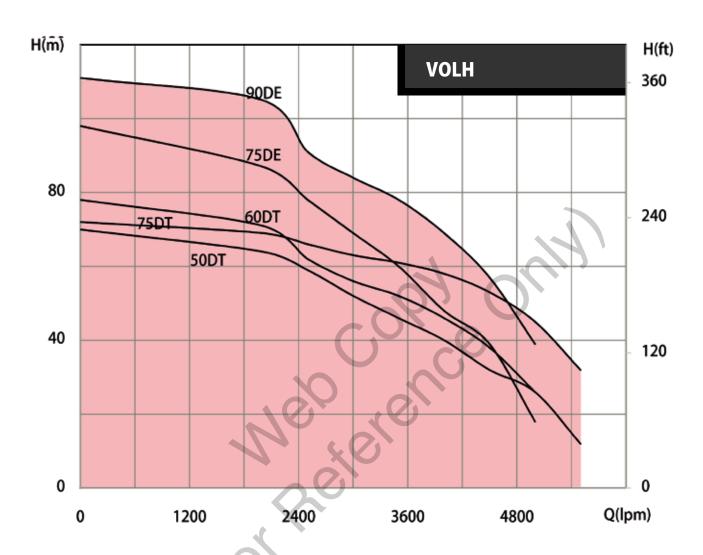
Characteristic Curves



Product	НР	kW	Phase	Q - m ³ /hr	0	96	120	144	168	192	216	240	264	288	DNM
Code	Code	KVV	riiase	Q - I/min	Q - I/min 0 1600 2000 2400	2400	2800	3200	3600	4000	4400	4800	DININ		
VOLG60DE/3	60.0	45.0	Т		88	84	75	72	66	60	54	48	36	-	6"
VOLG60DQ/4	60.0	45.0	Т	Total Head in	93	85	80	76	72	64	56	44	36	-	6"
VOLG75DQ/4	75.0	56.0	Т	meters	105	99	93	89	81	74	66	59	44	-	6"
VOLG80DQ/4	80.0	60.0	Т		115	108	100	96	88	80	72	64	48	1	6"



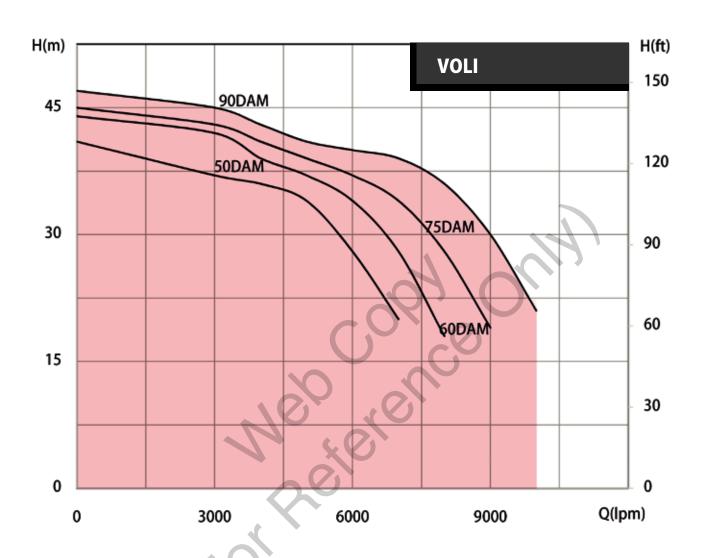
Characteristic Curves



Product	HP kW	ĿW	Phase	Q - m³/hr	0	120	150	180	210	240	270	300	330	DNM
Code	nr.	KVV	riiase	Q - I/min	0	2000	2500	3000	3500	4000	4500	5000	5500	DIVIN
VOLH50DT/2	50.0	37.5	Т		70	64	59	52	46	40	32	26	12	6"
VOLH60DT/2	60.0	45.0	Т	Total	78	71	62	56	52	46	38	26	-	6"
VOLH75DT/2	75.0	56.0	Т	Head in	72	69	66	63	61	58	53	45	32	6"
VOLH75DE/3	75.0	56.0	Т	meters	98	87	78	69	60	48	39	18	-	6"
VOLH90DE/3	90.0	67.0	T		111	105	91	84	78	69	57	39	-	6"



Characteristic Curves



Product	НР	kW	Phase	Q - m³/hr	0	180	240	300	360	420	480	540	600	DNM
Code	nr	KVV	riiase	Q - I/min	0	3000	4000	5000	6000	7000	8000	9000	10000	DIVIN
VOLI50DAM/1	50.0	37.5	Т		41	37	36	34	28	20	-	-	-	8"
VOLI60DAM/1	60.0	45.0	Т	Total Head in	44	42	39	37	34	28	18	-	-	8"
VOLI75DAM/1	75.0	56.0	Т	meters	45	43	41	39	37	34	28	19	-	8"
VOLI90DAM/1	90.0	67.0	Т		47	45	43	41	40	39	36	30	21	8"