

# VOM

## Sump Submersible Pumps - Vertical

### Construction

Submersible vertical sump medium series pumps with radial and mixed flow impellers made with higher tolerance level gives superior performance with higher degree of reliability even in robust operating conditions. Three decades of experience combined with the improved diffuser design ensures good discharge properties.

### Applications

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

### Operating Conditions

- Liquid temperature : upto 33 °C
- Total Solids : 3000ppm (Max.)
- Durability : 50ppm (Silica Scale Max.)
- Continuous duty

### Water filled Rewindable motor

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

### Special features

- Can pump water through long distances
- Total Hardened SS Shaft for specific model
- Fins body for better heat dissipation
- Suitable Winding designs for low and high voltage operations
- 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
NRV	Cast Iron FG 200
Flange	SG 400/12,
Tie-Rod	SS 410
Strainer	SS 202

### MOTOR

Components	Materials
Base	Cast Iron FG 200
Body	Cast Iron FG 200
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

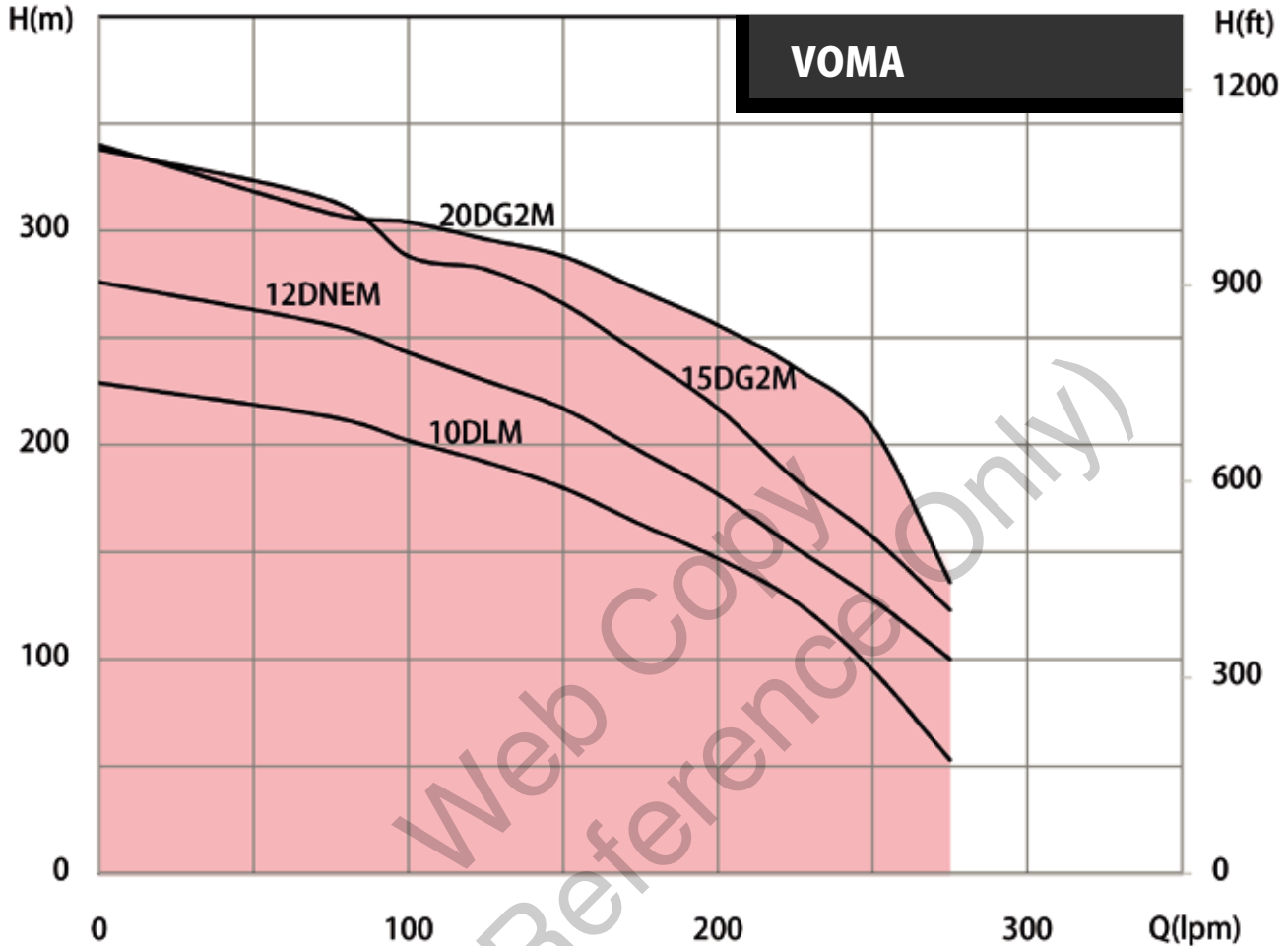


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## Sump Submersible Pumps - Vertical



### Characteristic Curves



### Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Q - m <sup>3</sup> /hr	0	4.5	6.0	7.5	9.0	10.5	12	13.5	15	16.5	DNM
					Q - l/min	0	75	100	125	150	175	200	225	250	
VOMA10DLM/11	10.0	7.5	T	Total Head in meters	229	213	202	192	180	163	147	127	95	53	2"
VOMA12DNEM/13	12.5	9.3	T		276	256	243	230	217	197	177	152	128	100	2"
VOMA15DG2M/16	15.0	11.0	T		338	314	288	282	266	242	217	184	157	123	3"
VOMA20DG2M/16	20.0	15.0	T		340	308	304	296	288	272	256	236	208	136	3"

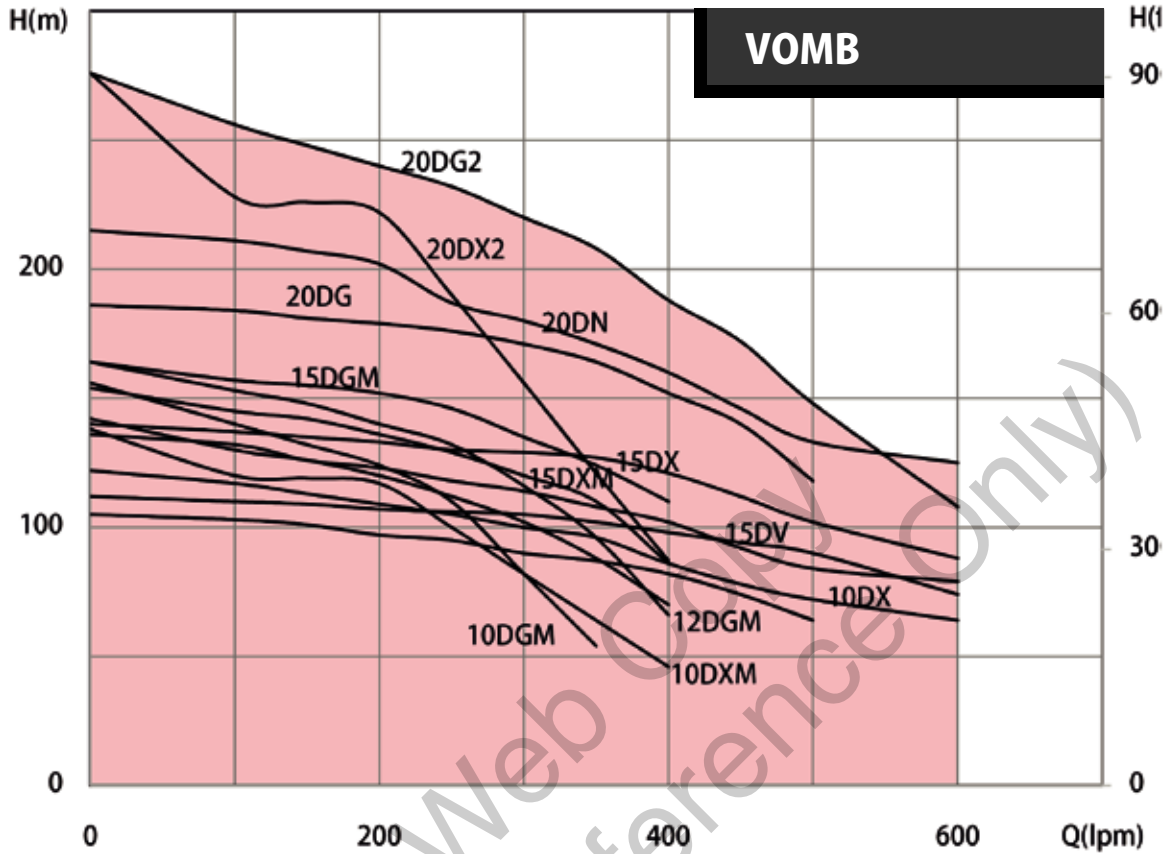
\* M - Single Phase, T - Three Phase, Q - Discharge, DN - Nominal Diameter

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## Sump Submersible Pumps - Vertical



### Characteristic Curves



### Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Total Head in meters													DNM
				Q - m <sup>3</sup> /hr	0	6	9	12	15	18	21	24	27	30	36		
				Q - l/min	0	100	150	200	250	300	350	400	450	500	600		
VOMB10DV/5	10.0	7.5	T	105	103	101	97	95	90	87	82	74	64	-	-	2.5"	
VOMB10DX/6	10.0	7.5	T	122	117	113	109	105	100	96	86	78	72	64	2.5"		
VOMB10DXM/6	10.0	7.5	T	138	120	119	117	100	82	64	46	-	-	-	2"		
VOMB10DGM/8	10.0	7.5	T	156	140	132	124	110	82	54	-	-	-	-	2"		
VOMB12DX/6	12.5	9.3	T	136	132	126	123	118	114	108	102	92	84	79	2.5"		
VOMB12DX M/6	12.5	9.3	T	142	130	126	120	112	102	88	70	-	-	-	2"		
VOMB12DGM/8	12.5	9.3	T	164	153	148	140	132	116	96	66	-	-	-	2"		
VOMB15DV/5	15.0	11.0	T	112	110	109	107	106	105	102	98	94	90	74	2.5"		
VOMB15DX/6	15.0	11.0	T	140	137	135	133	130	129	127	121	112	102	88	2.5"		
VOMB15DXM/6	15.0	11.0	T	154	145	142	136	129	120	110	86	-	-	-	2"		
VOMB15DGM/8	15.0	11.0	T	164	157	155	152	146	135	124	110	-	-	-	2"		
VOMB20DG/8	20.0	15.0	T	186	184	181	179	176	171	164	152	140	118	-	2"		
VOMB20DN/10	20.0	15.0	T	215	211	207	202	187	180	171	160	146	133	125	2"		
VOMB20DX2/12	20.0	15.0	T	276	228	226	222	190	156	121	87	-	-	-	3"		
VOMB20DG2/16	20.0	15.0	T	276	256	248	240	232	220	208	188	172	148	108	3"		

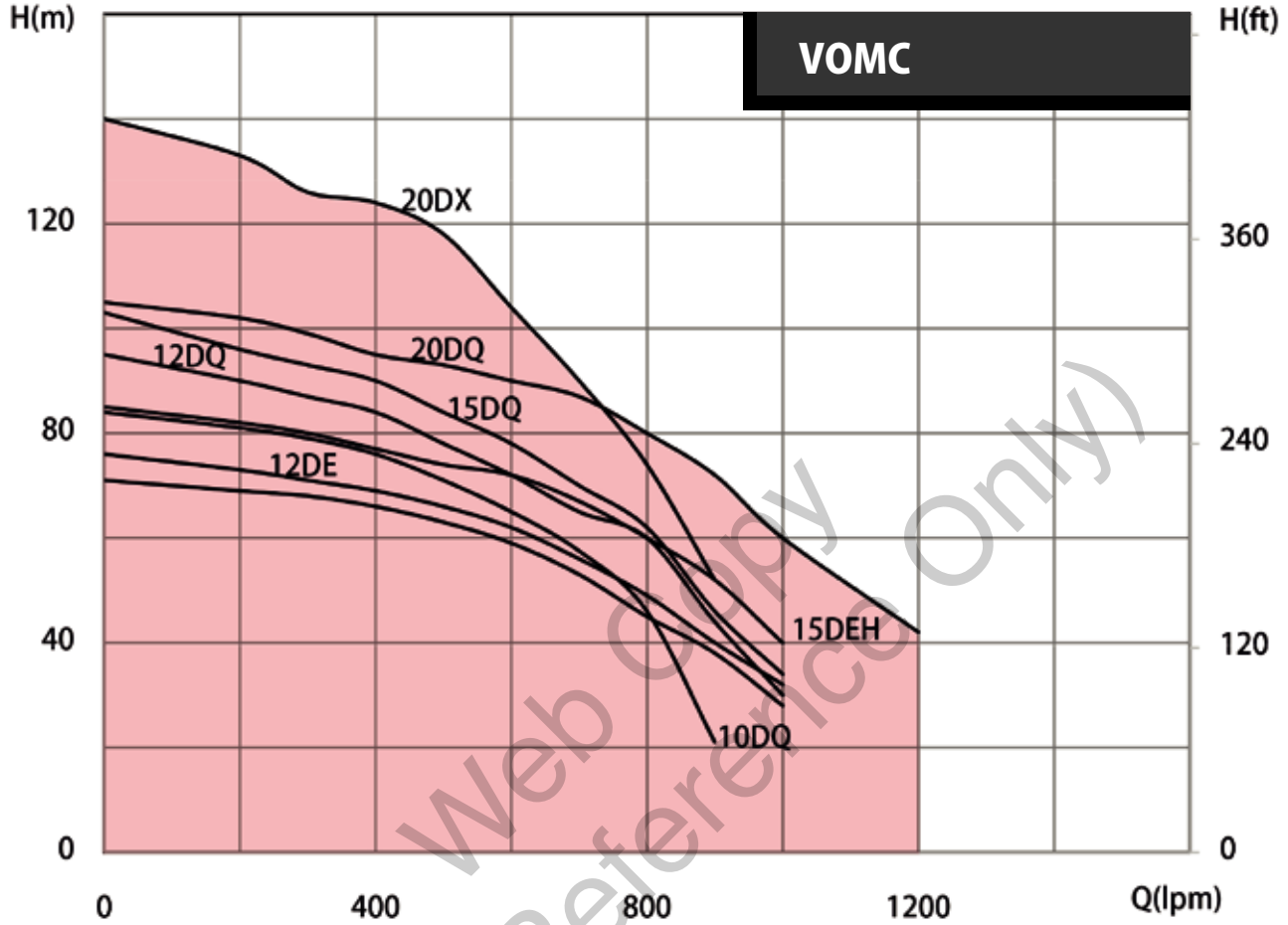
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## Sump Submersible Pumps - Vertical



### Characteristic Curves



### Hydraulic Performance & Dimensions

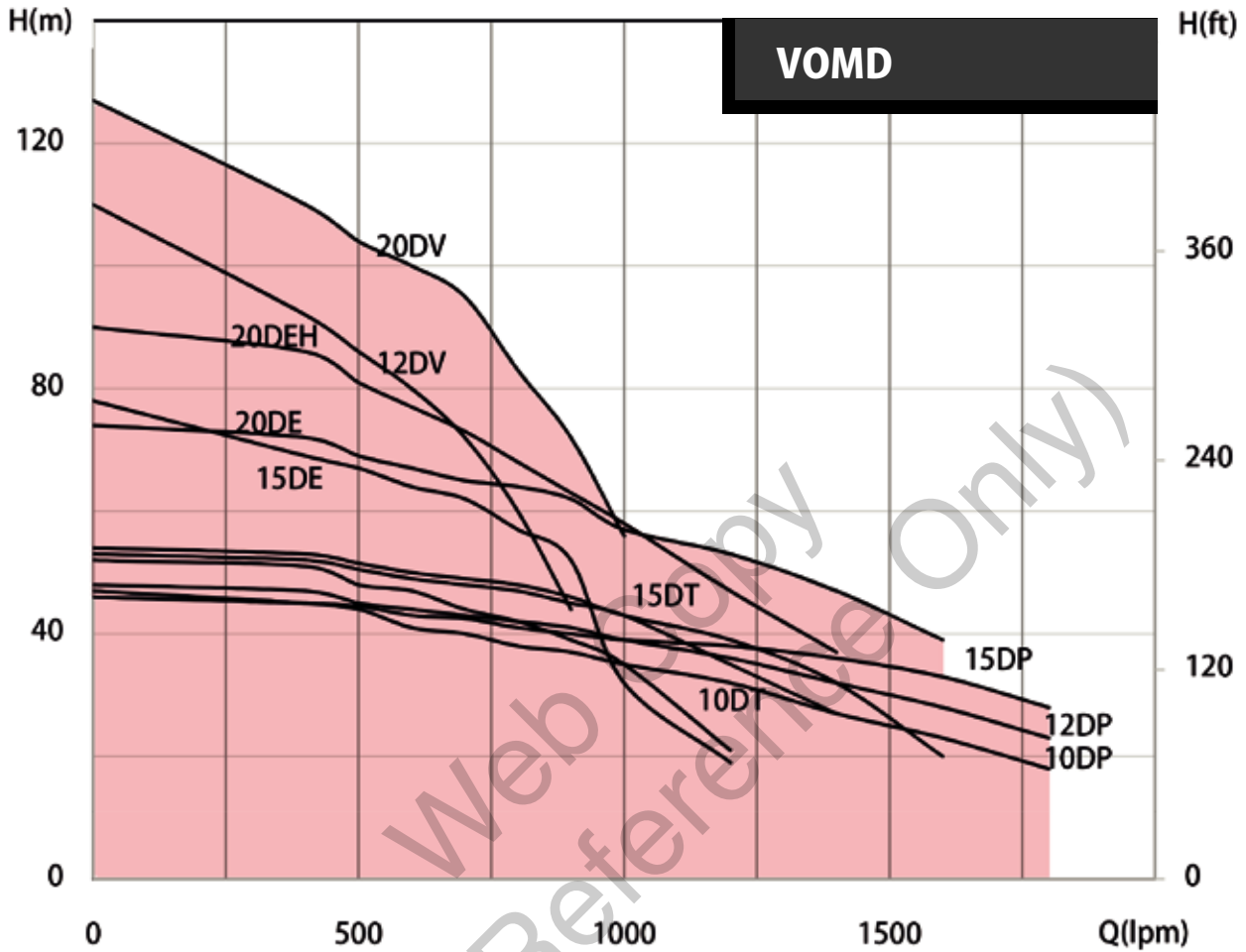
Product Code	HP	kW	Phase	Q - m <sup>3</sup> /hr	0	12	18	24	30	36	42	48	54	60	72	DNM
					Q - l/min	0	200	300	400	500	600	700	800	900	1000	
VOMC10DE/3	10.0	7.5	75	Total Head in meters	71	69	68	66	63	59	53	45	38	28	-	3"
VOMC10DQ/4	10.0	7.5	75		84	81	79	76	71	65	57.5	46	21	-	-	3"
VOMC12DE/3	12.5	9.3	75		76	73	71	69	66	62	56	49	40	32	-	3"
VOMC12DQ/2	12.5	9.3	65		95	90	87	84	78	72	65	60	44	30	-	2.5"
VOMC15DEH/3	15.0	11.0	75		85	82	80	77	74	72	67	60	52	40	-	3"
VOMC15DQ/4	15.0	11.0	75		103	96	93	90	84	78	70	62	46	34	-	3"
VOMC20DQ/4	20.0	15.0	75		105	102	99	95	93	90	87	80	72	60	42	3"
VOMC20DX/6	20.0	15.0	65		140	133	126	124	118	104	90	74	52	-	-	2.5"

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### Characteristic Curves



### Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Total Head in meters															
				Q - m <sup>3</sup> /hr	0	24	30	36	42	48	54	60	72	84	96	108	DNM		
				Q - l/min	0	400	500	600	700	800	900	1000	1200	1400	1600	1800			
VOMD10DP/2	10.0	7.5	T		47	45	44	41	40	38	37	35	32	27	23	18	4"		
VOMD10DT/2	10.0	7.5	T		52	51	48	47	44	42	39	35	21	-	-	-	3"		
VOMD12DP/2	12.5	9.3	T		48	47	45	44	43	42	41	39	36	32	28	23	4"		
VOMD12DT/2	12.5	9.3	T		53	52	50.5	49	48	47	45	43	35	27	-	-	3"		
VOMD12DV/5	12.5	9.3	T		110	92	86	80	72	60	44	-	-	-	-	-	2.5"		
VOMD15DP/2	15.0	11.0	T		46	45	44.5	43	42.5	41	40	39	38	36	33	28	4"		
VOMD15DT/2	15.0	11.0	T		54	53	51.5	50	49	48	46	43	39	32	20	-	3"		
VOMD15DE/3	15.0	11.0	T		78	69	67	64	62	57	52	32	19	-	-	-	3"		
VOMD20DE/3	20.0	15.0	T		74	72	69	67	65	64	62	57	53	47	39	-	4"		
VOMD20DEH/3	20.0	15.0	T		90	86	81	77	73	68	63	58	47	37	-	-	3"		
VOMD20DV/5	20.0	15.0	T		127	110	104	100	95	83	72	56	-	-	-	-	2.5"		

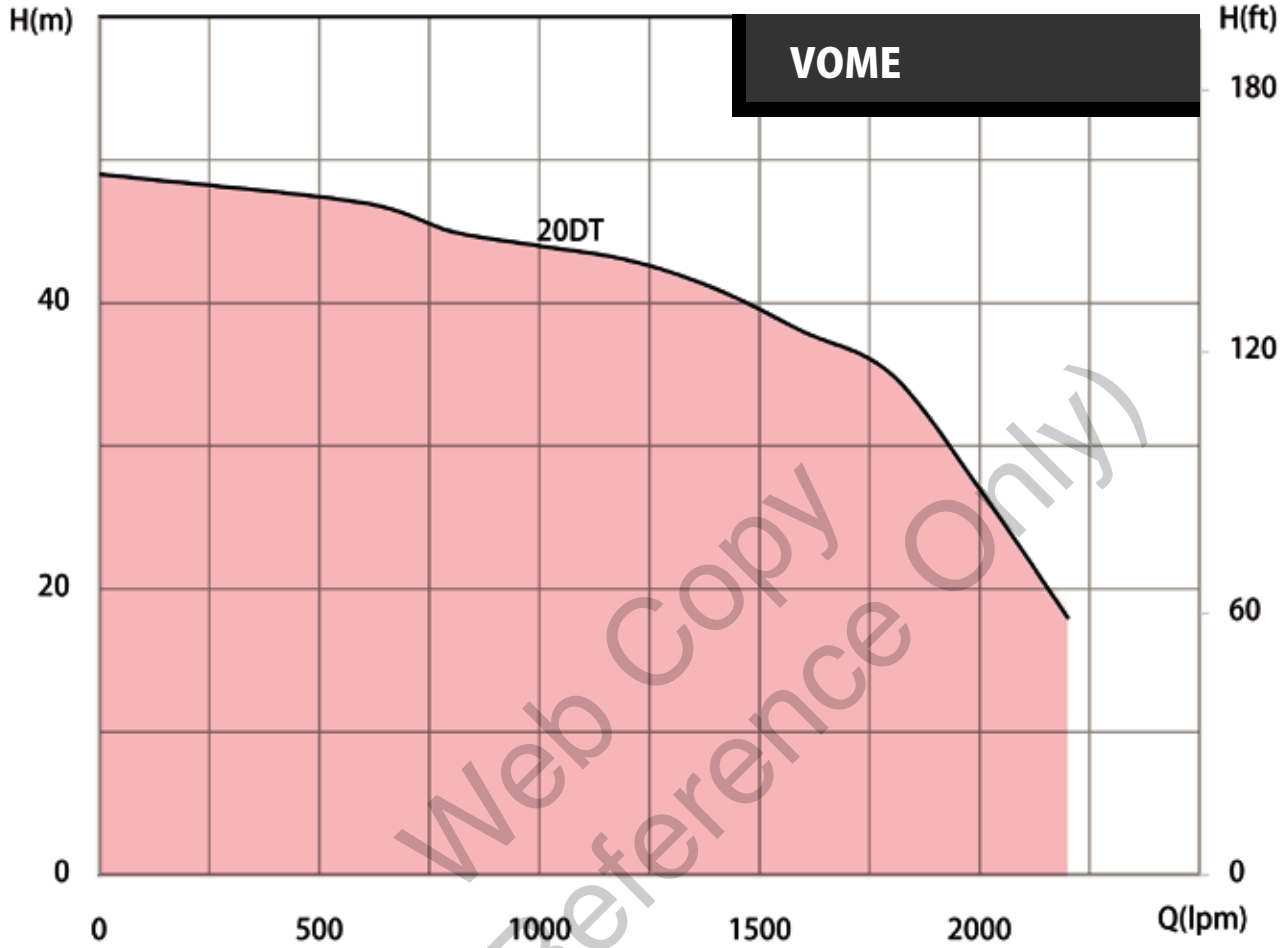
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### Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Q - m <sup>3</sup> /hr											DNM
				0	36	48	60	72	84	96	108	120	132		
VOME20DT/1	20.0	15.0	T	0	600	800	1000	1200	1400	1600	1800	2000	2200	4"	
				Total Head in meters	49	47	45	44	43	41	38	35	27	18	

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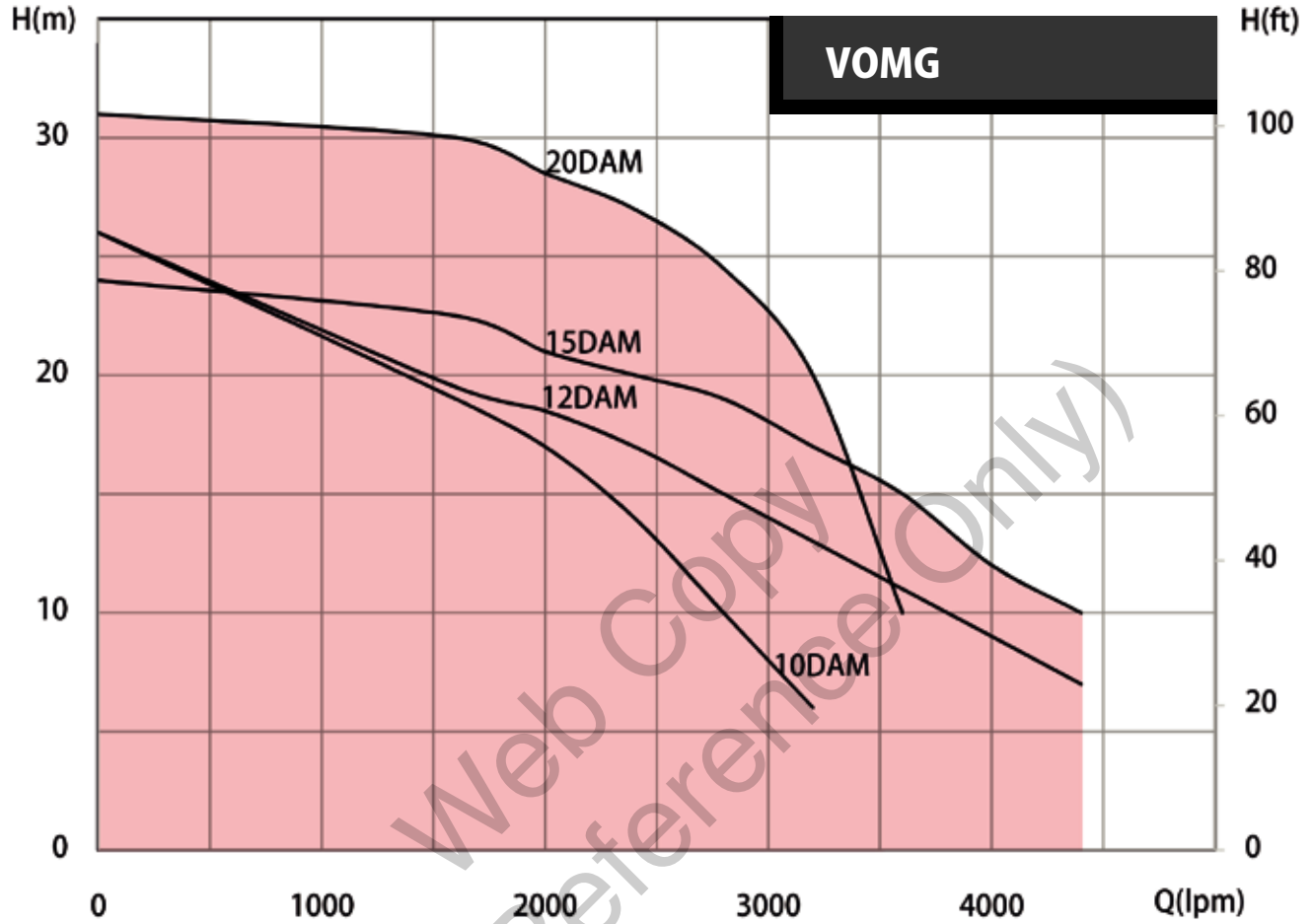


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### Characteristic Curves



### Hydraulic Performance & Dimensions

Product Code	HP	kW	Phase	Q - m <sup>3</sup> /hr	0	96	120	144	168	192	216	240	264	DNM
					Q - l/min	0	1600	2000	2400	2800	3200	3600	4000	
VOMG10DAM/1	10.0	7.5	T	Total Head in meters	26	19	17	14	10	6	-	-	-	5"
VOMG12DAM/1	12.5	9.3	T		26	19.5	18.5	17	15	13	11	9	7	5"
VOMG15DAM/1	15.0	10.0	T		24	22	21	20	19	17	15	12	10	5"
VOMG20DAM/1	20.0	15.0	T		31	30	28.5	27	24.5	20	10	-	-	5"

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