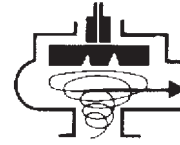
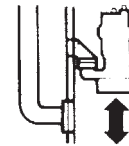


VORTEX SEWAGE SUBMERSIBLE PUMP



Uses vortex pump that allows 100% passage of foreign matter



Quick Discharge Connector (optional) makes maintenance simple

APPLICATIONS

- Sewage
- Waste Water

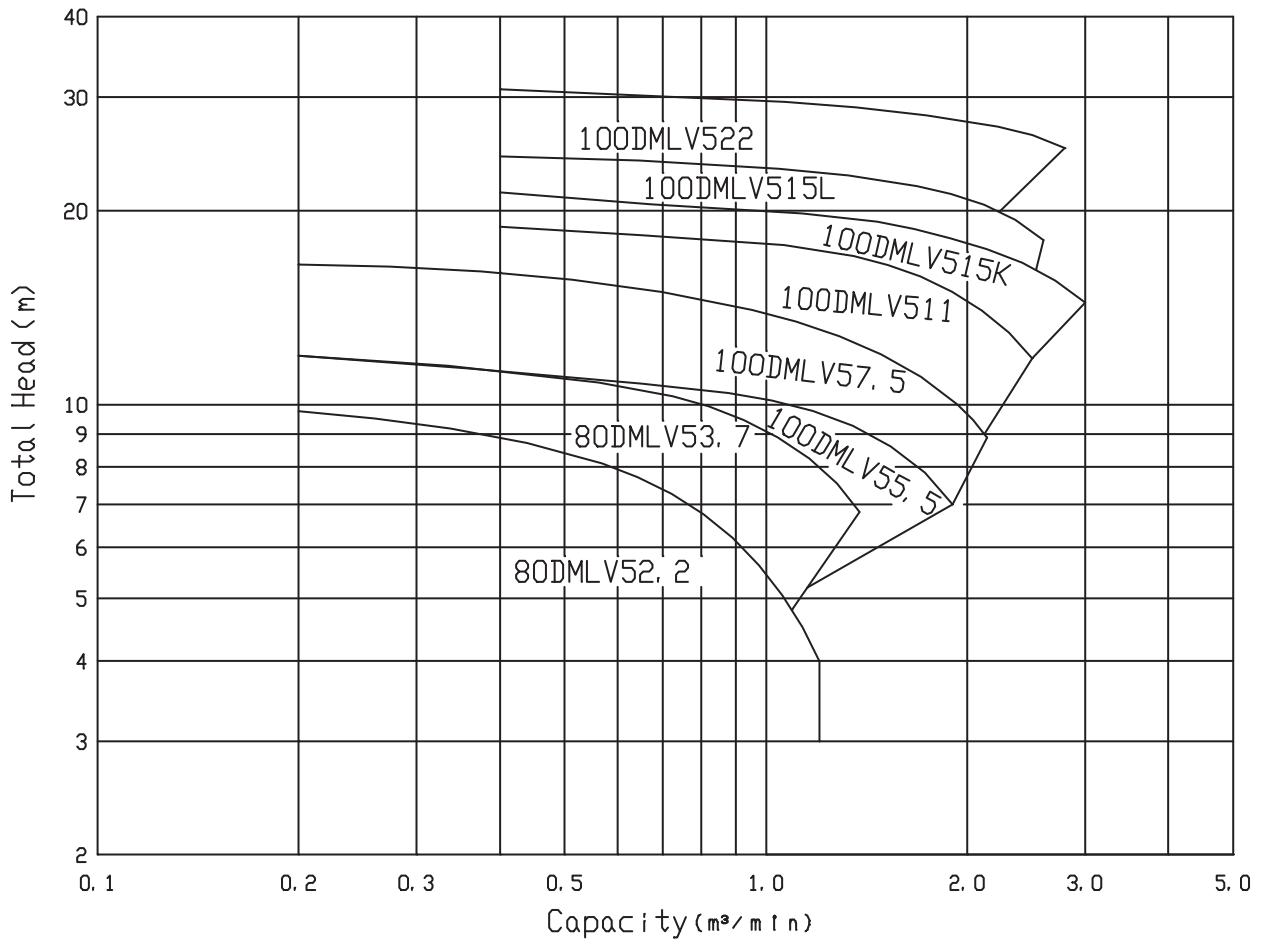
FEATURES

- Free flow Vortex Impeller
- Models up to 100mm discharge

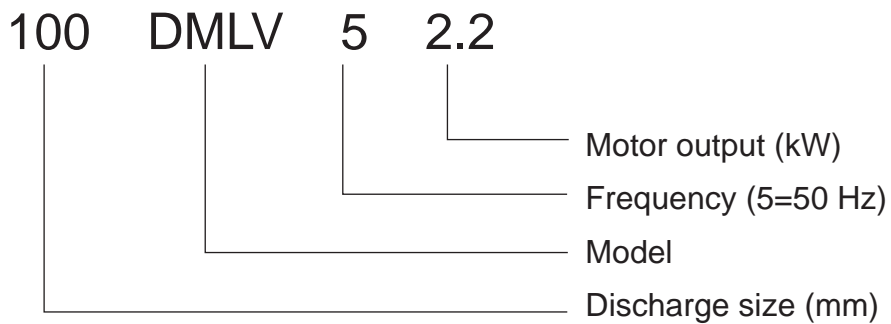
Pump			
Model	DMLV		
Liquid Handled	Type of liquid	Sewage, Waste water	
	Temperature	0°C - 40°C	
	Solid Passage	According to pump discharge diameter	
Maximum Submergence	8m		
Minimum Submergence	Refer to water level (L.W.L) in dimensions. It is possible to operate at low water level for 30min.		
Synchronous Speed	1500min ⁻¹		
Construction	Mechanical seal	Double mechanical seal	
	Impeller	Vortex type	
	Bearing	Prelubricated bearing	
Material	Casing	Cast iron	
	Impeller	Cast iron	
	Shaft	403 Stainless steel	
	Mechanical seal	Impeller side	Silicon carbide
		Motor side	Ceramic / Carbon
Packing	NBR		
Motor			
Type	4 pole, air-filled watertight		
Insulation	Class F		
Starting method	2.2kW : Direct on line 3.7kW and above : Star-Delta		
Protection	Built-in overload protector (2.2kW) : Built-in temperature detector protection (3.7 ~ 22kW)		
Accessories			
Standard	Submersible cable (10m)		
Optional	Quick discharge connector, Leakage detector.		

SELECTION CHART

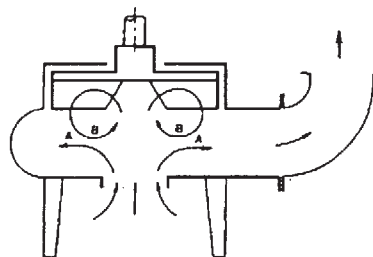
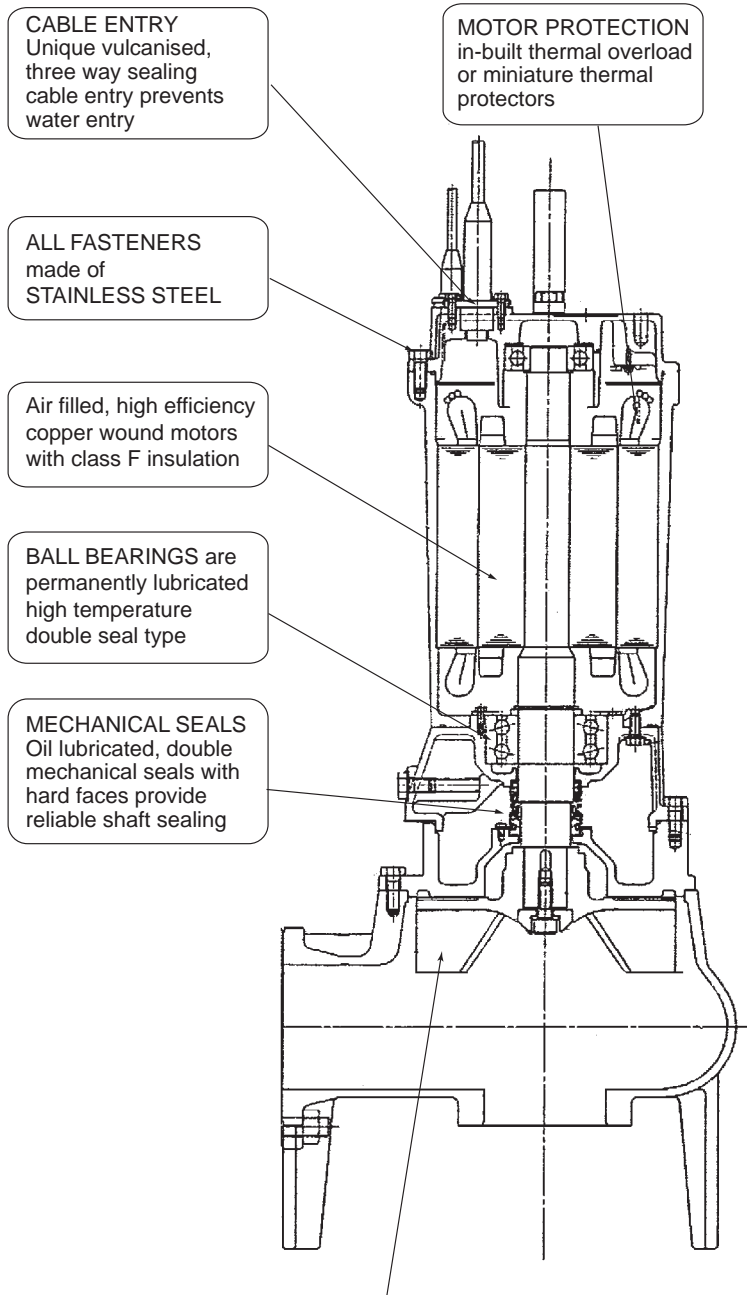
1450min⁻¹



MODEL MODE



DESIGN AND FEATURES



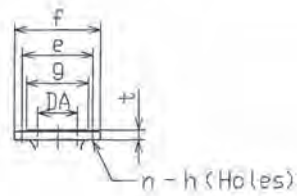
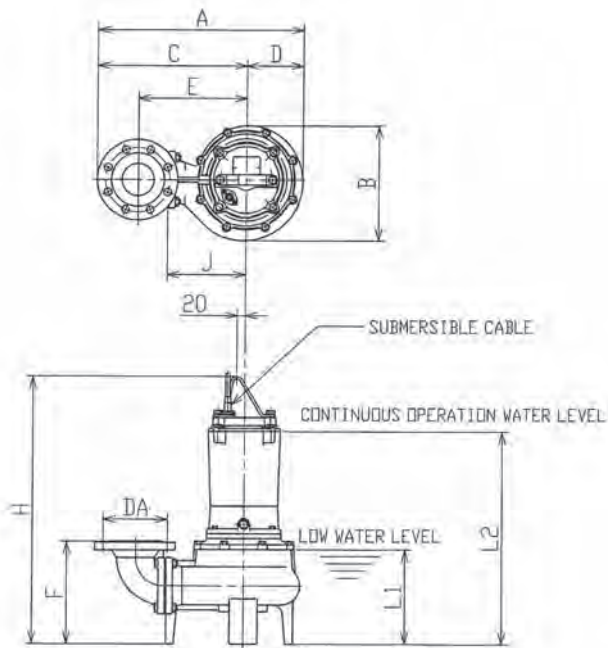
OPERATING PRINCIPLES OF VORTEX TYPE IMPELLER

When a vortex impeller rotates, it generates primary VORTEX (B) and secondary VORTEX (A) as shown in the drawing and then discharges the pumping liquid.

DIMENSION

80 DMLV 52.2

MODEL	SIZE Ø	FREQUENCY Hz	OUTPUT kW	PUMP & MOTOR DIMENSIONS										MASS kg
				A	B	C	D	E	F	H	J	L1	L2	
80DMLV52.2	80	50	2.2	518	285	375	143	275	254	660	200	200	560	70



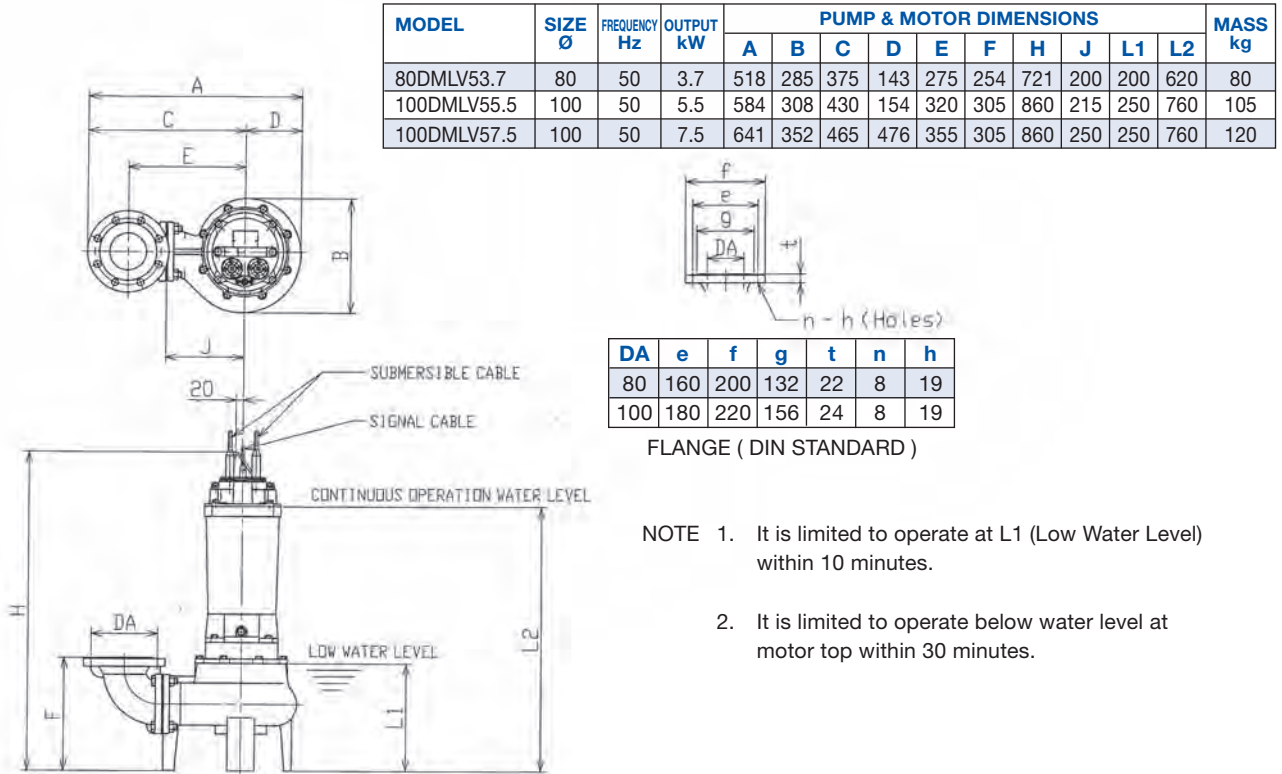
DA	e	f	g	t	n	h
80	160	200	132	22	8	19

FLANGE (DIN STANDARD)

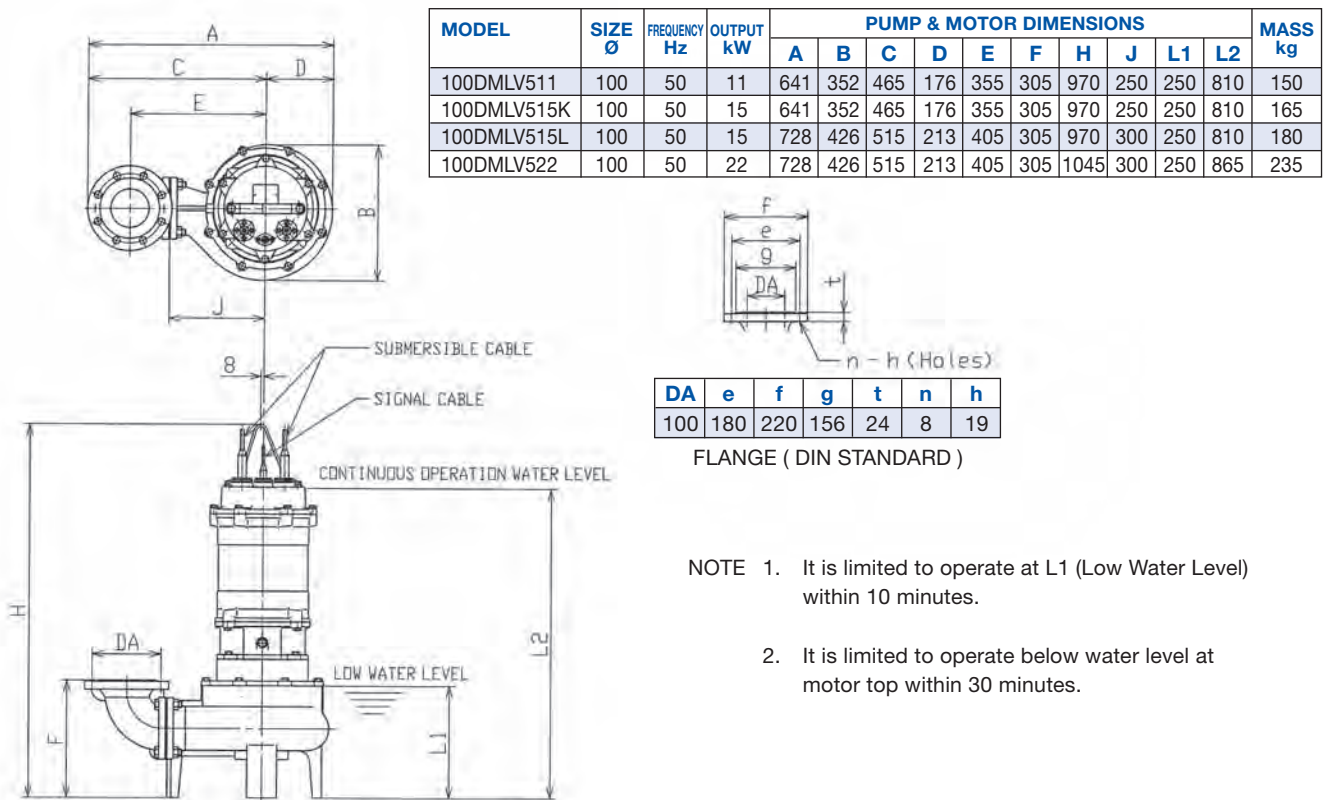
- NOTE
1. It is limited to operate at L1 (Low Water Level) within 10 minutes.
 2. It is limited to operate below water level at motor top within 30 minutes.

DIMENSION

80 DMLV 53.7, 100 DMLV 55.5 & 100 DMLV 57.5



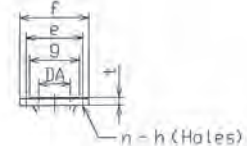
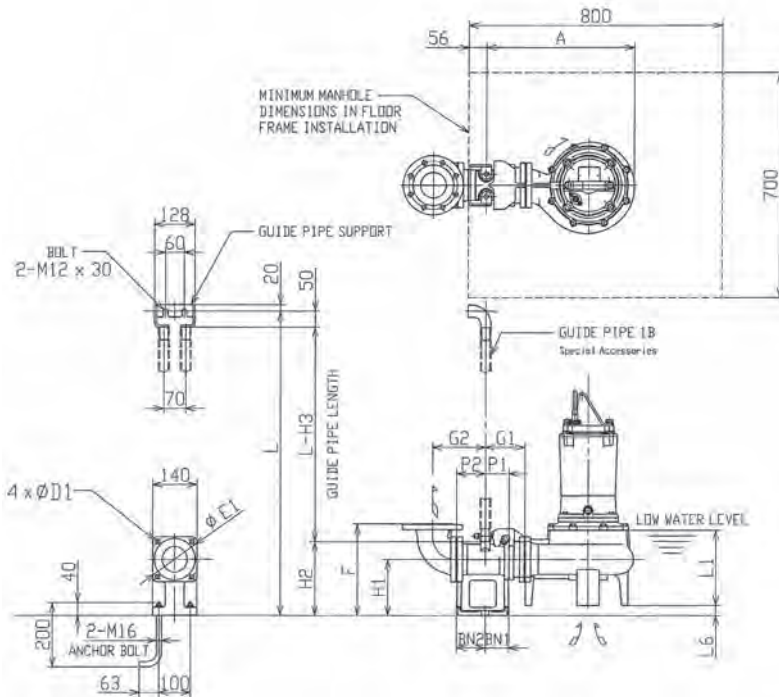
100 DMLV 511, 100 DMLV 515K, 100 DMLV 515L & 100 DMLV 522



DIMENSION (WITH QDC)

80 DMLV 52.2, 80 DMLV 53.7 (QDC)

MODEL	A	P1	P2	G1	G2	F	H1	H2	H3	L1	L6	BN1	BN2	D1	E1	QDC Model	Weight
80DMLV52.2	468	75	90	125	165	285	175	230	280	200	31	75	90	12	155	LM80	17 kg
80DMLV53.7	468	75	90	125	165	285	175	230	280	200	31	75	90	15	155	LM80	17 kg



DA	e	f	g	t	n	h
80	160	200	132	22	8	19

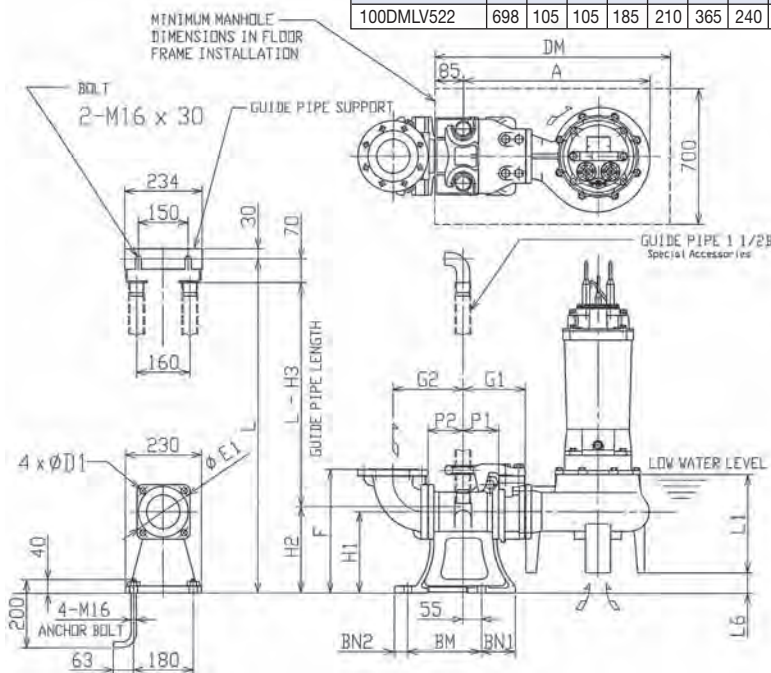
FLANGE (DIN STANDARD)

NOTE

1. For detailed dimensions of the pumps, refer to separate dimension data sheets.
2. The discharge bend supplied with the pump are used with the QDC.
3. The weight in dimension tables refers only to the weight of the QDC.

100 DMLV 55.5, 100 DMLV 57.5, 100 DMLV 511, 100 DMLV 515K, 100 DMLV 515L & 100 DMLV 522 (QDC)

MODEL	A	P1	P2	G1	G2	F	H1	H2	H3	L1	L6	BN1	BN2	BM	DM	D1	E1	QDC Model	Weight
100DMLV55.5	554	105	105	185	210	365	240	265	335	250	60	100	40	230	800	19	175	LL100	46 kg
100DMLV57.5	611	105	105	185	210	365	240	265	335	250	60	100	40	230	800	19	175	LL100	46 kg
100DMLV511	611	105	105	185	210	365	240	265	335	250	60	100	40	230	800	19	175	LL100	46 kg
100DMLV515K	611	105	105	185	210	365	240	265	335	250	60	100	40	230	800	19	175	LL100	46 kg
100DMLV515L	698	105	105	185	210	365	240	265	335	300	60	100	40	230	1000	19	175	LL100	46 kg
100DMLV522	698	105	105	185	210	365	240	265	335	300	60	100	40	230	1000	19	175	LL100	46 kg



DA	e	f	g	t	n	h
100	180	220	156	24	8	19

FLANGE (DIN STANDARD)

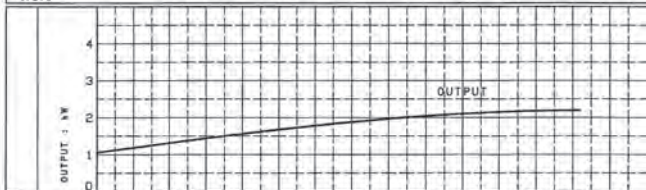
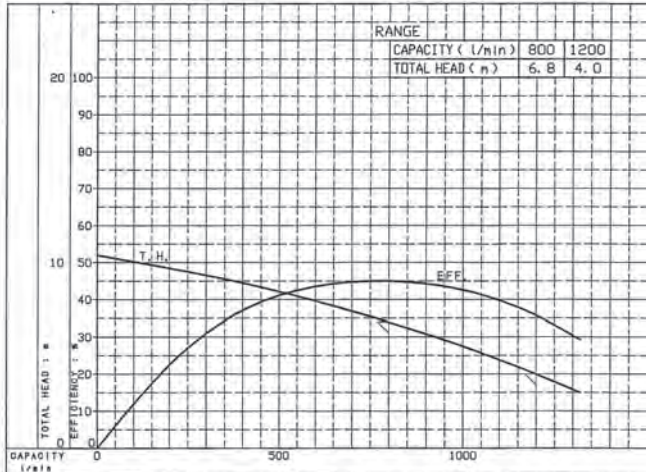
NOTE

1. For detailed dimensions of the pumps, refer to separate dimension data sheets.
2. The discharge bend supplied with the pump are used with the QDC.
3. The weight in dimension tables refers only to the weight of the QDC.

PERFORMANCE CURVE

MODEL 80DMLV52.2 FREQUENCY 50 Hz OUTPUT 2.2 kW

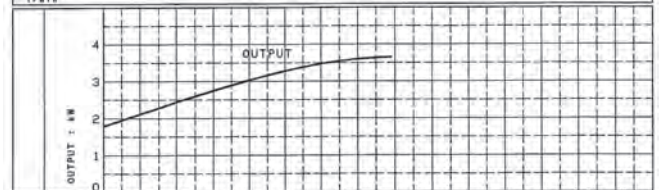
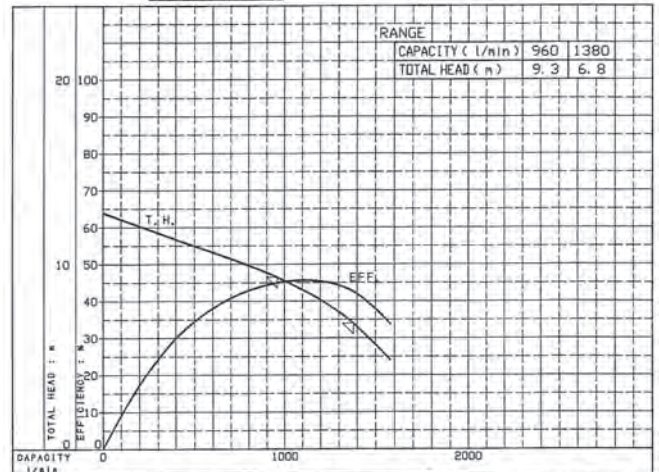
MOTOR RATING $\frac{380/400/415 \text{ V}}{5.5/5.2/5.2 \text{ A}}$ SYNCHRONOUS SPEED 1500 rpm 2.2 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999(E). Impeller Dia. 185 mm

MODEL 80DMLV53.7 FREQUENCY 50 Hz OUTPUT 3.7 kW

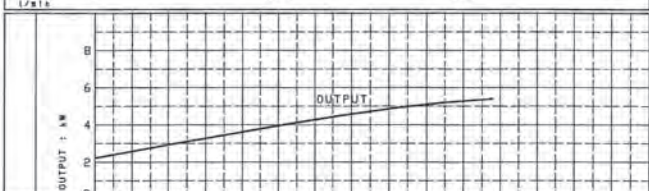
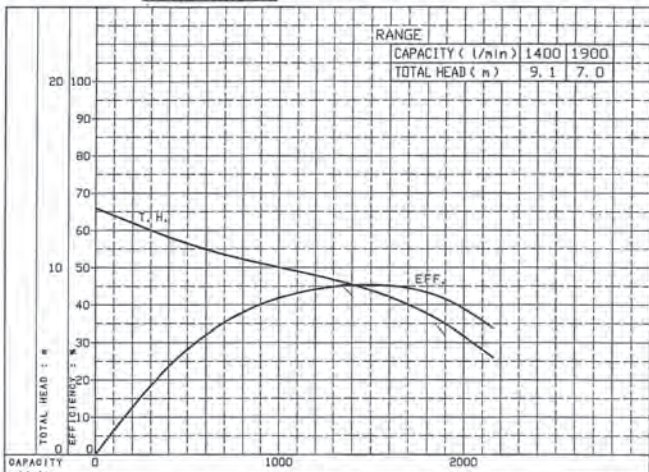
MOTOR RATING $\frac{380/400/415 \text{ V}}{8.6/8.4/8.4 \text{ A}}$ SYNCHRONOUS SPEED 1500 rpm 3.7 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999(E). Impeller Dia. 204 mm

MODEL 100DMLV55.5 FREQUENCY 50 Hz OUTPUT 5.5 kW

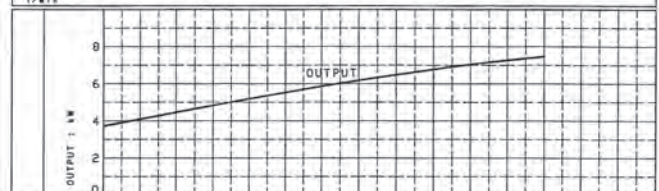
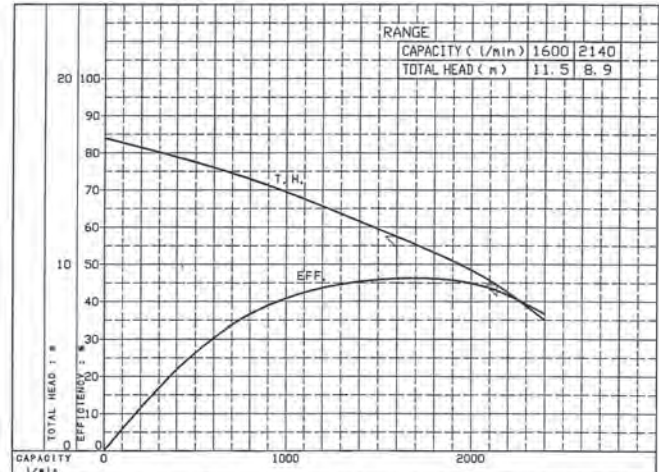
MOTOR RATING $\frac{380/400/415 \text{ V}}{12.7/12.6/12.7 \text{ A}}$ SYNCHRONOUS SPEED 1500 rpm 5.5 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999(E). Impeller Dia. 211 mm

MODEL 100DMLV57.5 FREQUENCY 50 Hz OUTPUT 7.5 kW

MOTOR RATING $\frac{380/400/415 \text{ V}}{16.9/16.9/17.1 \text{ A}}$ SYNCHRONOUS SPEED 1500 rpm 7.5 kW DRY TYPE

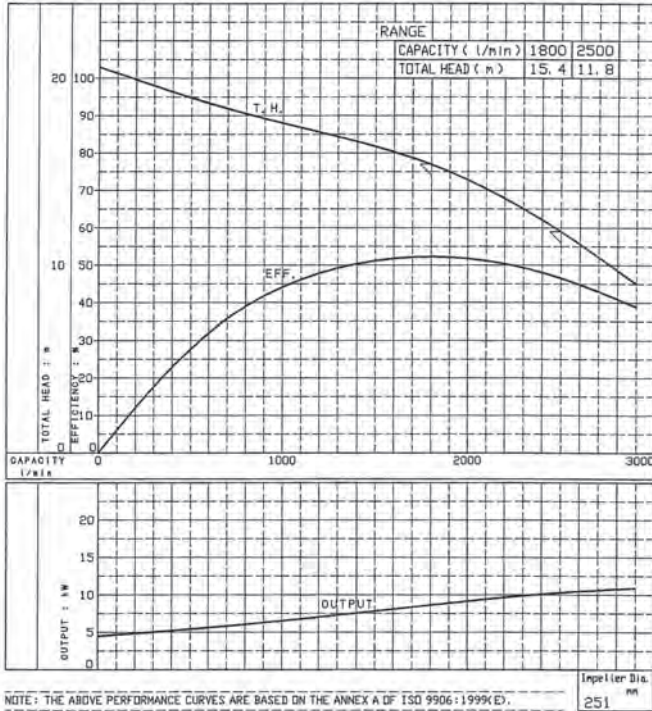


NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999(E). Impeller Dia. 231 mm

PERFORMANCE CURVE

MODEL 100DMLV511 FREQUENCY 50 Hz OUTPUT 11 kW

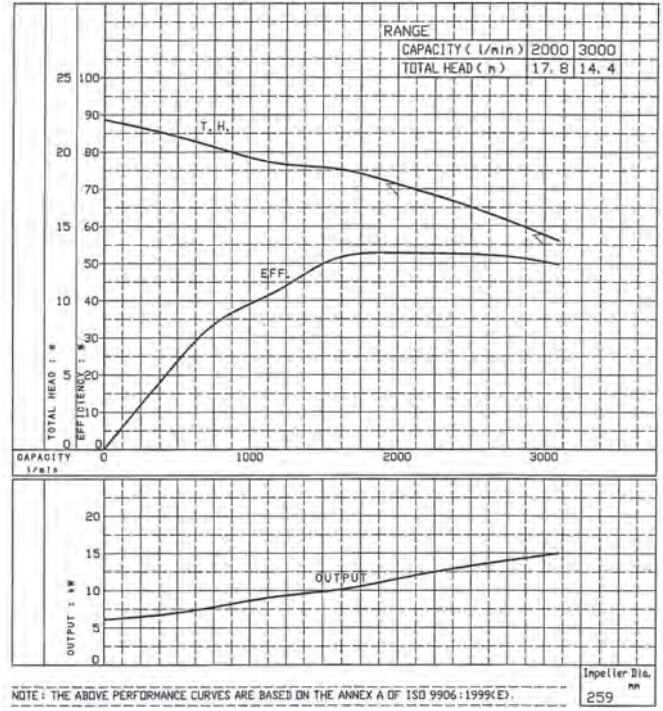
MOTOR RATING $\frac{380/400/415}{23.5/23.8/23.8} \frac{V}{A}$ SYNCHRONOUS SPEED 1500 min^{-1} 11 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999(E).

MODEL 100DMLV515K FREQUENCY 50 Hz OUTPUT 15 kW

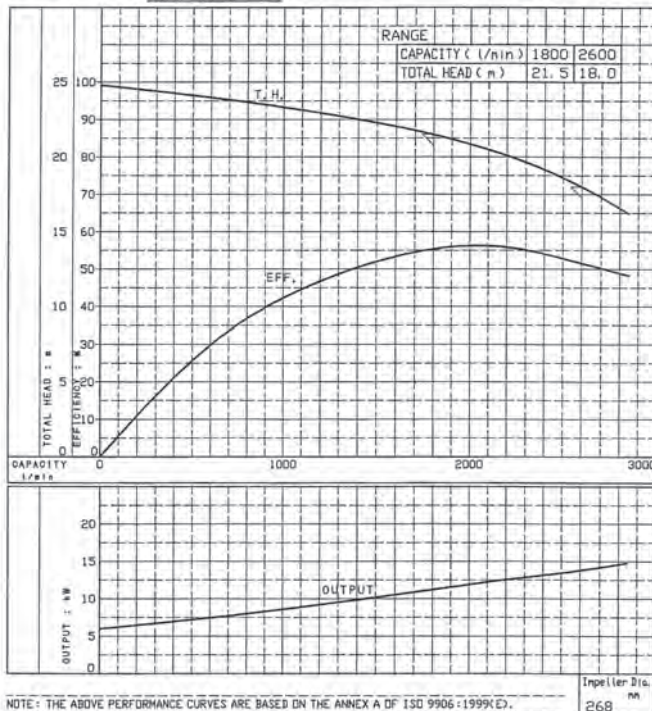
MOTOR RATING $\frac{380/400/415}{31.5/31/31} \frac{V}{A}$ SYNCHRONOUS SPEED 1500 min^{-1} 15 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999(E).

MODEL 100DMLV515L FREQUENCY 50 Hz OUTPUT 15 kW

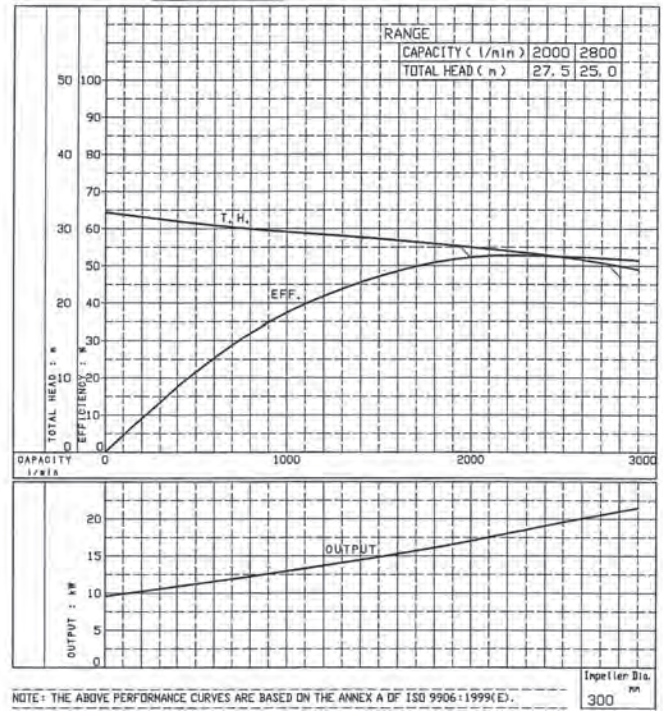
MOTOR RATING $\frac{380/400/415}{31.5/31/31} \frac{V}{A}$ SYNCHRONOUS SPEED 1500 min^{-1} 15 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999(E).

MODEL 100DMLV522 FREQUENCY 50 Hz OUTPUT 22 kW

MOTOR RATING $\frac{380/400/415}{43.5/42/42} \frac{V}{A}$ SYNCHRONOUS SPEED 1500 min^{-1} 22 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999(E).