

DMLV - DMLVF



Submersible electric pumps with vortex impeller

Submersible electric pumps fitted with Type Vortex impeller, pump body and cast iron elbow.

The type of impeller, combined with the anti - vortex system in the oil chamber (for DMLV), makes them ideal for use with sewage and with especially heavy-duty uses such as civil and industrial waste water or liquids containing solid and filamentous suspended substances.



Possibility to use in fixed and mobile installations



Vortex impeller

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Technical data

Max. immersion	7 m
Max. temperature of the liquid	40°C
Maximum length of fibres	400 mm (80DMLV) 500 mm (100DMLV)
Max. solids passage	80÷100 mm (DMLV) 30÷80 mm (DMLVF)
Poles	2, 4, 6
Insulation class	F (DMLV) H (DMLVF)
Protection degree	IP68
Voltage	Three phase 380-415V -10 +6% (DMLV 2,2 kW) - DOL Three phase 380-415V ±10% (DMLV 3,7÷22 kW) - Y/ Single phase 230V ±10% (DMLVF) Three phase 400/690V ±10% (DMLVF)

Materials

Pump body	Cast iron
Impeller	Cast iron
Shaft	AISI 403 (DML) AISI 420B (DMLF)
Mechanical seal	Impeller side: SiC/SiC/NBR Motor side: Carbon/Ceramic/NBR

Accessories



Quick discharge connection
Pag. 386 - **Quick discharge connection (QDC)**
For DS, DVS, DML, DMLV, DL-DL W/C (with cutter)



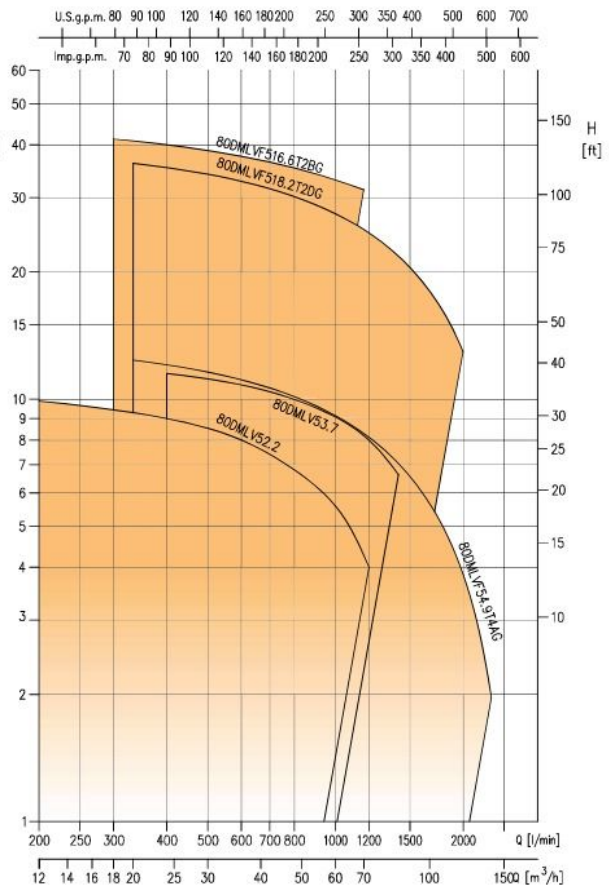
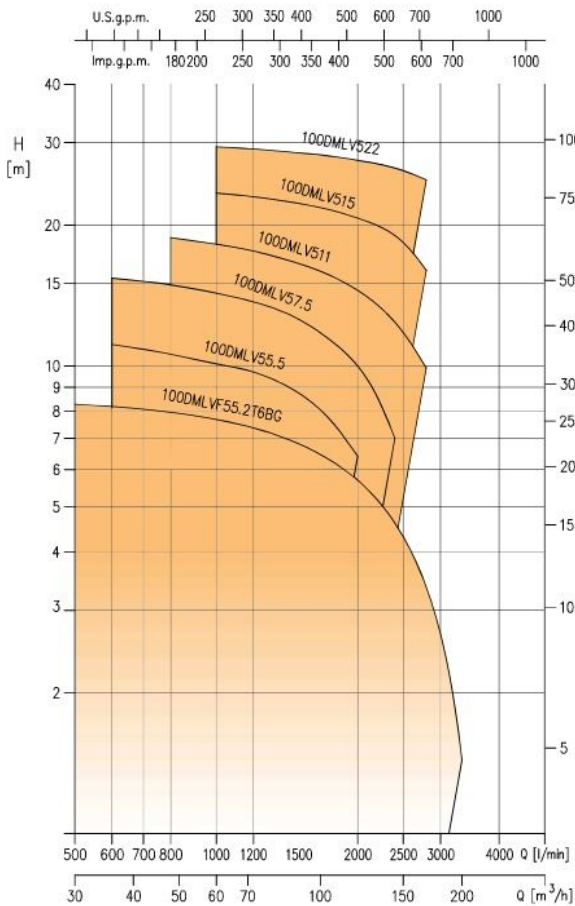
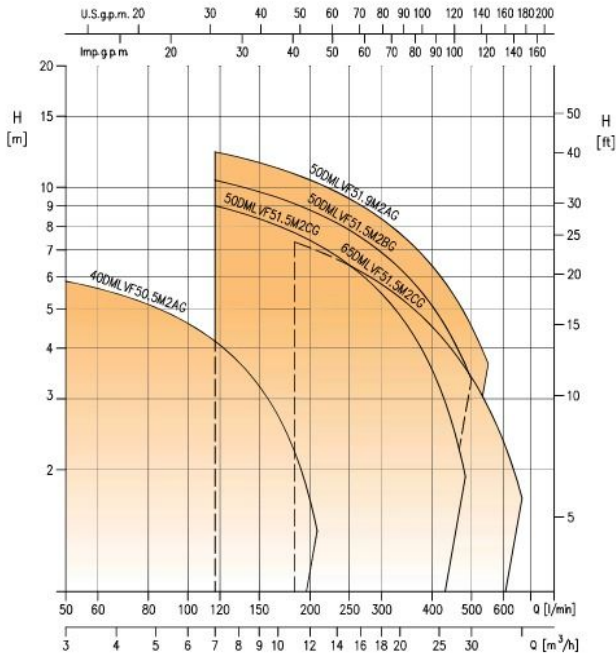
Adaptors
Pag. 386 - **Lowering slide kit 2 DN50 guide pipes**
Adaptor for the use of lowering slide kit (QDC)
Pag. 386 - **Flange adaptor**
(Steel C40) JIS/DIN (DS, DVS, DL-DL W/C, DML, DMLV)
Pag. 386 - **Hook guide**
Adaptor (guide pipe) and flange for adaptor



Various accessories
Pag. 387 - **DMLF-DMLVF-DSF-DRD-DRS Accessories**
- QDC - Quick discharge connection
- Elbow for discharge
- Tripod
- Threaded flange

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40-50-65DMLVF Selection table

Model	HP	kW	Q=Flow rate														
			l/min	50	117	183	208	250	300	350	400	483	500	550	667		
			m ³ /h	3	7	11	12,5	15	18	21	24	29	30	33	40		
			H=Total head [m]														
40DMLVF50.5M2AG	0,7	0,5	-	5,9	4,2	2,2	1,4	-	-	-	-	-	-	-	-	-	-
50DMLVF51.5M2CG	2	1,5	-	-	9	7,7	7,2	6,4	5,5	4,5	3,5	1,9	-	-	-	-	-
50DMLVF51.5M2BG	2	1,5	-	-	10,4	9,1	8,6	7,8	6,9	6,0	5,1	3,6	3,4	-	-	-	-
50DMLVF51.9M2AG	2,5	1,9	-	-	12,2	10,8	10,3	9,4	8,4	7,4	6,4	4,8	4,5	3,7	-	-	-
65DMLVF51.5M2CG	2	1,5	-	-	-	7,3	7,0	6,4	5,8	5,1	4,5	3,6	3,4	2,9	1,7	-	-

80DMLV-80DMLVF Selection table

Model	HP	kW	Q=Flow rate														
			l/min	200	300	333	400	600	900	1167	1200	1320	1400	2000	2100	2333	
			m ³ /h	12	18	20	24	36	54	70	72	79	84	120	126	140	
			H=Total head [m]														
80DMLV52.2	3	2,2	-	9,9	9,5	9,3	9,0	8	6,4	4,1	4	-	-	-	-	-	-
80DMLV53.7	5	3,7	-	-	-	-	11,5	10,7	9,4	9,1	7,9	7,2	6,4	-	-	-	-
80DMLVF54.9T4AG	6,6	4,9	-	-	-	12,4	12,1	11,1	9,6	8,3	8,1	7,5	7,1	3,8	3	2	-
80DMLVF516.6T2BG	22,3	16,6	-	-	41,3	40,9	40,0	37,6	34,2	31,3	-	-	-	-	-	-	-
80DMLVF518.2T2DG	24,4	18,2	-	-	-	36,2	35,4	32,8	28,9	25,2	24,8	23,1	21,9	13,0	-	-	-

100DMLV-100DMLVF Selection table

Model	HP	kW	Q=Flow rate													
			l/min	500	600	800	1000	1200	1700	2000	2400	2800	3333			
			m ³ /h	30	36	48	60	72	102	120	144	168	200			
			H=Total head [m]													
100DMLVF55.2T6BG	7	5,2	-	8,3	8,2	8	7,7	7,4	6,4	5,7	4,6	3,4	1,4	-	-	-
100DMLV5.5	7,5	5,5	-	-	11,1	10,6	10,1	9,7	7,9	6,4	-	-	-	-	-	-
100DMLV57.5	10	7,5	-	-	15,4	14,9	14,3	13,7	11,6	10	7	-	-	-	-	-
100DMLV511	15	11	-	-	-	18,8	18,2	17,6	15,8	14,5	12,4	9,9	-	-	-	-
100DMLV515	20	15	-	-	-	-	23,4	23	21,7	20,7	19	16	-	-	-	-
100DMLV522	30	22	-	-	-	-	29,4	29,1	28,2	27,5	26,5	25	-	-	-	-

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Three phase 400V

Model	Code	HP	kW	rpm	Abs. Curr. [A] 400V	Passage [mm]	DNM	Weight [kg]
80DMLV52.2 *	2090101004	3	2,2	1450	5,2	80	80	70,0
80DMLV53.7	2090121004	5	3,7	1450	8,4	80	80	80,0
100DMLV55,5	2090131004	7,5	5,5	1450	12,6	100	100	105,0
100DMLV57,5	2090141004	10	7,5	1450	16,9	100	100	120,0
100DMLV511	2090161004	15	11	1450	23,8	100	100	150,0
100DMLV515L	2090171004	20	15	1450	31	100	100	180,0
100DMLV522	2090191004	30	22	1450	42	100	100	235,0

* Three phase 400/690V - SD start, for the rest of the range DOL start

Single phase 230V

Model	Code	HP	kW	rpm	Abs. Curr. [A] 230V	Passage [mm]	DNM	Weight [kg]
40DMLVF50.5M2AG *	1875000130	0,7	0,5	2850	3,2	30	32	14,0
50DMLVF51.5M2CG *	1875000137	2	1,5	2850	9	50	50	43,0
50DMLVF51.5M2BG *	1875000136	2	1,5	2850	9	50	50	43,0
50DMLVF51.9M2AG *	1875000135	2,5	1,9	2850	11,4	50	50	43,0
65DMLVF51.5M2CG *	1875000140	2	1,5	2850	9	65	65	44,0

Three phase 400/690V

Model	Code	HP	kW	rpm	Abs. Curr. [A] 400/690V	Passage [mm]	DNM	Weight [kg]
80DMLVF54.9T4AG *	1875000177	6,6	4,9	1401	9,9	64	80	79,0
80DMLVF516.6T2BG *	1875000152	22,3	16,6	2881	29,8	40x50	80	191,0
80DMLVF518.2T2DG *	1875000153	24,4	18,2	2891	32,6	80	80	192,0
100DMLVF55.2T6BG *	1875000182	7	5,2	941	10,4	80	100	170,0

* Required flange or elbow in case of movable installation