

90L/min

MV90 2-8 Stage Multistage Vertical Centrifugal Pump

APPLICATIONS: To work with clean water in domestic applications, irrigation, and hydro pneumatic sets.

Quiet running multistage centrifugal pump. Not very sensitive to the impurities.

PUMP

- Maximum **capacity**: 90l/min(5.4m³/h).
- Head** up to 86m.
- Temperature** of pumped liquid: 0-40°C.
- Maximum operating **pressure**: 9.0 bar.

MOTOR

- Asynchronous, two poles.
- Protection class**: IPX5.
- Class F insulation.
- Continuous operation.
- Single phase** version 220-240V 50Hz with automatic reset overload protection.
- Three phase** version: 220-240V/380-415V 50Hz, the overload protection must be provided and installed by the user in the control panel.
- Maximum ambient **temperature** 40°C

MATERIALS

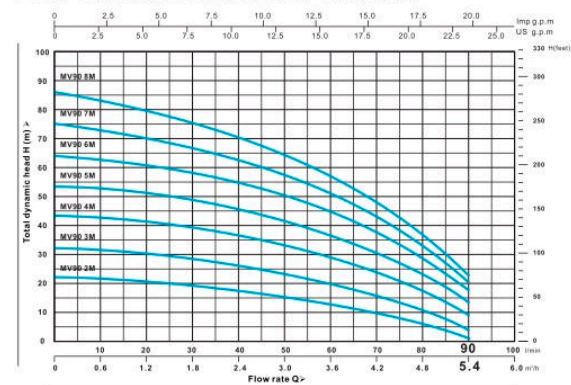
- Suction/discharge mounting** in Casting Iron (Casting brass are availability).
- Pump housing** in AISI 304 Stainless steel.
- Diffuser** in PPO(Noryl®).
- Impellers** in PPO(Noryl®)(AISI 304 Stainless steel are availability).
- Motor shaft** in AISI 316 stainless steel (Carbon steel and AISI 416 Stainless steel are availability).
- Mechanical seal** with Graphite/Silicon carbide, EPDM elastomers, other parts are made of AISI 304 stainless steel.
- O-ring** made of EPDM.

OPTIONAL FEATURES

- Different voltages and frequencies.
- Different materials for the mechanical seal.



PERFORMANCE CHART AT n= 2850 min⁻¹



PERFORMANCE DATA AT n= 2850 min⁻¹

PUMP MODEL	INPUT KW	OUTPUT KW	HP	Q m³/h	l/min	H (m)	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4
							0	10	20	30	40	50	60	70	80	90
MV90 2M	0.6	0.45	0.6	22	21	20	19	17	15	13	10	6	2			
MV90 3M	0.9	0.7	0.95	32	31	30	28	26	23	20	16	11	4			
MV90 4M	1.1	0.85	1.15	43	42	41	39	36	33	29	24	17	9			
MV90 5M	1.35	1.05	1.4	53	52	51	49	47	41	36	30	23	13			
MV90 6M	1.65	1.3	1.65	64	62	61	58	55	50	45	37	28	17			
MV90 7M	1.9	1.45	1.95	75	73	70	67	63	58	51	43	33	20			
MV90 8M	2.2	1.65	2.2	86	83	80	75	70	65	57	48	37	23			

Q=FLOW RATE H=TOTAL DYNAMIC HEAD IN METERS

Curve tolerance according to ISO 2548

DIMENSION

PUMP MODEL	Dn1	Dn2	DIMENSION [mm]							
			h	h1	h2	n	n1	n2	m	s
MV90 2M	1"	1"	344	153	33.5	195	122	122	173	10
MV90 3M	1"	1"	403.5	185.5	30.5	205	122	122	176	10
MV90 4M	1"	1"	428	210	30.5	205	122	122	176	10
MV90 5M	1"	1"	452.5	234.5	30.5	205	122	122	176	10
MV90 6M	1"	1"	498.5	261	32.5	237	135	135	200	12
MV90 7M	1"	1"	523	285.5	32.5	237	135	135	200	12
MV90 8M	1"	1"	547.5	310	32.5	237	135	135	200	12

Item	Description	Material
1	Suction and Discharge mounting	Casting Iron
2	Connect flange	Casting Iron
3	Front cover	PPO GNF-20
4	Pump housing	304 stainless steel
5	Tie bolt	Nickel plated steel
6	Mechanical seal	Graphite-Silicon carbide
7	Motor front cover	Casting Iron
8	Motor	Class F IPX5
9	Prime and drain plugs	Casting Brass
10	Shaft sleeve	Plastic bearing
11	Nut	304 stainless steel
12	Diffuser	PPO GNF-20
13	Impeller	PPO GNF-20
14	Casing O-ring	EPDM

