

90L/min

MH90 2-6 Stage Multistage Horizontal Centrifugal Pump

APPLICATIONS: For domestic and industrial applications, irrigation and hydropneumatic sets.

Quiet running multistage centrifugal pump. Built-in self priming valve, not very sensitive to the impurities. Self-priming up to 8 m.



PUMP

- Maximum **capacity**: 90l/min(5.4m³/h).
- **Head** up to 64m.
- **Temperature** of pumped liquid: 0-40°C.
- Maximum operating **pressure**: 7.0 bar.

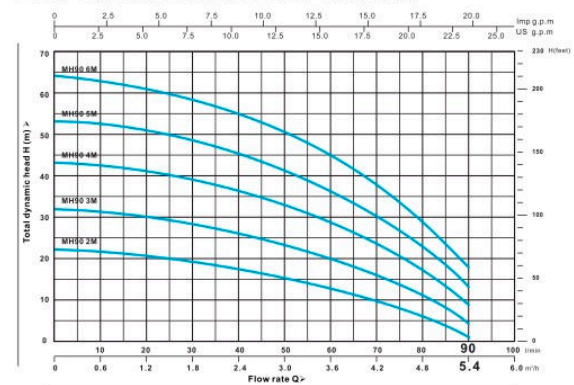
MOTOR

- 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 _m ³ /h	H (m)									
					0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4
MH90 2M	0.6	0.45	0.6	0	22	21	20	19	17	15	13	10	6	2
MH90 3M	0.9	0.75	0.95	0	32	31	30	28	26	23	20	16	11	4
MH90 4M	1.1	0.85	1.15	0	43	42	41	39	36	33	29	24	17	9
MH90 5M	1.35	1.05	1.4	0	53	52	51	49	45	41	36	30	23	13
MH90 6M	1.65	1.3	1.65	0	64	62	61	58	55	50	45	37	28	17

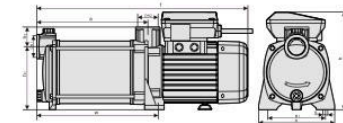
Q=FLOW RATE H=TOTAL DYNAMIC HEAD IN METERS

Curve tolerance according to ISO 2548



DIMENSION

PUMP MODEL	Dn ₁	Dn ₂	DIMENSION [mm]									
			a	f	h	h ₁	h ₂	n	n ₁	w	s	
MH90 2M	1"	1"	146	337	180	121	31.5	150	120	164	10	
MH90 3M	1"	1"	170	384	196	126	36.5	150	120	190	10	
MH90 4M	1"	1"	194.5	409	196	126	36.5	150	120	214.5	10	
MH90 5M	1"	1"	219	433	196	126	36.5	150	120	239	10	
MH90 6M	1"	1"	246.5	480	237.5	142	41.5	165	130	277	10	



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

