



川源（中国）机械有限公司
GSD Industrial Co.,Ltd.



MV/MVR vertical multi-stage centrifugal pump

MV/MVR 立式多级离心泵

MV/MVR vertical multi-stage centrifugal pump

用途

MV型泵适用于输送温度不超过80℃的清水及其它类似液体。MVR型热水泵适用于输送温度不超过130℃的热水。

- 工矿企业给排水(MVR适合于热水给水系统)。
- 冷凝用水。
- 城市建设及居民生活给排水(特别适用于高层建筑加压供水及消防用水)。

特点

MV、MVR型立式多级离心泵,设计合理,扬程高,性能较优,结构紧凑,占地少,噪音低。出水口可按需求旋转90°、180°、270°,使用可靠,安装维修方便。

结构说明

- MV、MVR型泵是立式多及节段式水泵。用穿杆将进水段、中段、出水段联为一体,各段间用垫起密封作用。
- 轴向力由推力球轴承承受,并用机油润滑轴承。
- 轴封采用机械密封。

主要零件材质

- 进水段、中段、出水段、导叶均为铸铁。
- 叶轮为铸铁或铸铜。
- 轴为经热处理的优质碳素钢。

Application

MV is applicable to handling clear water of similar liquids at temperature below 80℃ (MVR<130℃).

- It is used in irrigation and drainage of water supply for industry and mines enterprise(MVR is suitable for hot water systems).
- Condensing water.
- It is suitable for use in urban construction and lives as means for water supply and drainage(especially for water delivery of high-rising buildings, pressure increasing water supply and fire control water).

Features

Type MV、MVR vertical multi-stage centrifugal pump features high head, Rational design, excellent performance, compact structure, little space and low noise level. It is designed according to a varieties of need to rotate 90°、180°、270°; Reliable operation and easy of installation, maintenance and handling.

Structure instruction

- MV、MVR Pump is Vertical Multi-Stage and Multi-Section Type. Suction branch, intermediate stage and discharge branch are connected with through rod. The spacer is served the function of seal.
- Axial stress is borne by thrust ball bearing between each branch and the bearing is lubricated by engine oil.
- Shaft seal is adopted by mechanical seal.

The material of main parts

- Suction branch, intermediate stage, discharge branch and guide vane all are adopted cast iron.
- The impeller is adopted cast iron or cast copper.
- Shaft is adopted quality carbon steel.

型号说明 Type description

MV(R) 100-100-120/6

表示泵级数 即叶轮个数 i=6

The number of stage of the pump(the no. of impeller)

表示泵全扬程 单位 “m” 即H=120m

The whole head of the pump

表示泵流量 单位 “m³/h” 即Q=100m³/h

Capacity

表示泵进口直径 单位 “mm” 即Dg=100m

The diameter of the water intake of the pump

MV表示立式多级离心泵

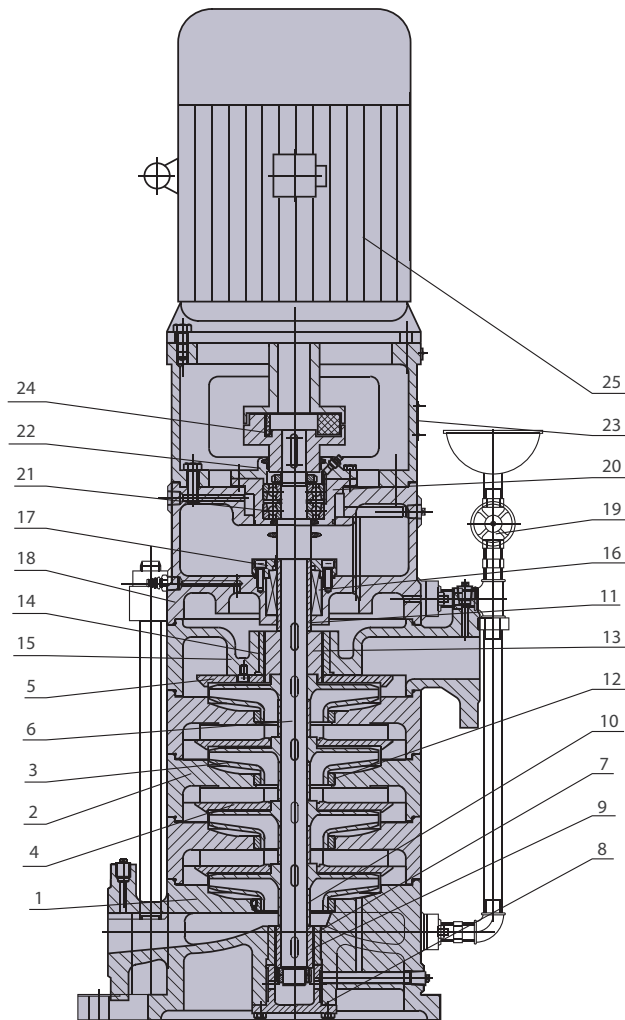
MV-Vertical multi-stage centrifugal pump

MVR表示立式多级热水泵

MVR-Vertical multi-stage centrifugal hot-water pump



结构简图 Construction

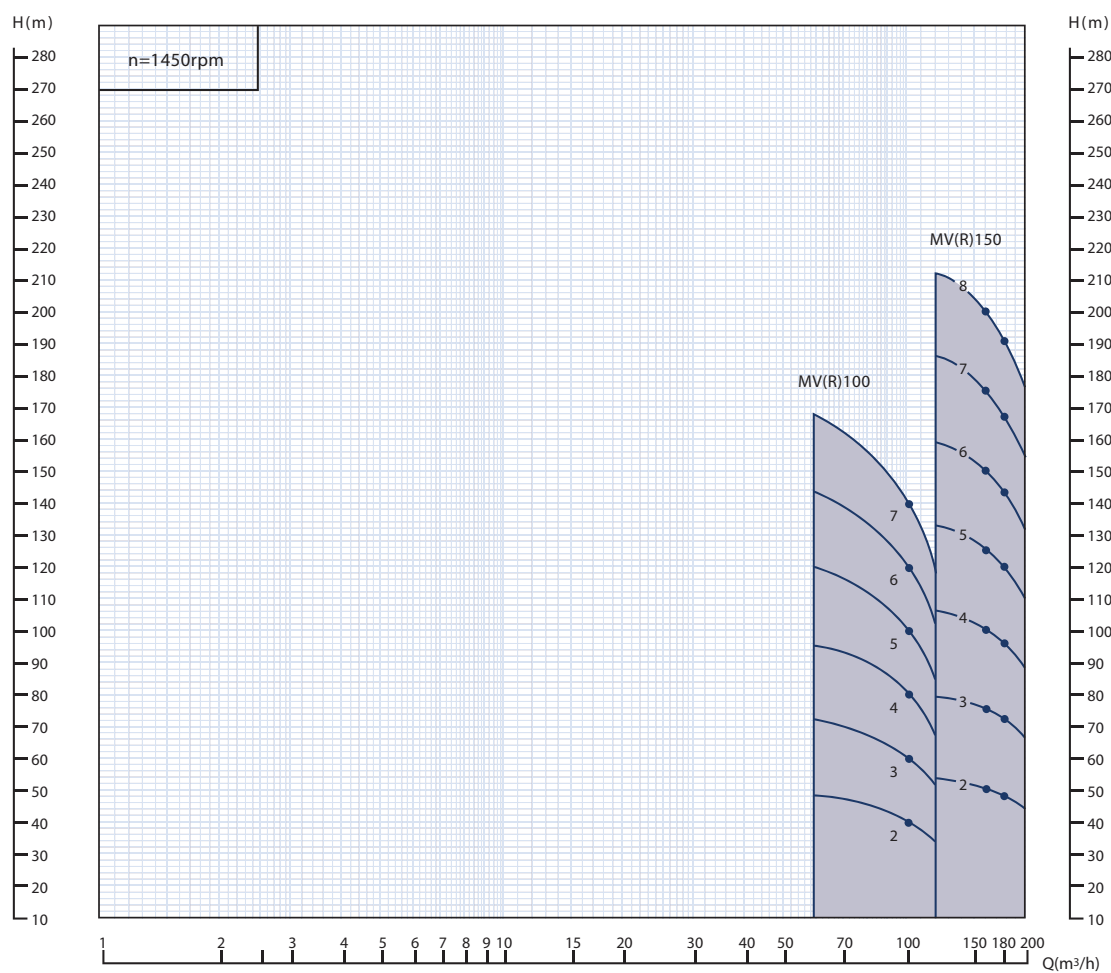


NO.	名称	Name	材质	NO.	名称	Name	材质
			Material				Material
1	进水段	Suction Branch	FC200	14	平衡鼓套	Sleeve Of Balance Drum	FC200
2	中段	Intermediate Stages	FC200	15	出水段	Discharge Branch	FC200
3	叶轮	Impeller	FC200	16	机械密封	Mechanical Seal	
4	导叶	Guide Vane	FC200	17	机械密封压盖	Mechanical Seal Cover	FC200
5	后导叶	Back Guide Vane	FC200	18	支座	Abutment	FC200
6	轴	Shaft	S45C	19	平衡管部件	Balancing Pipe	
7	轴瓦	Bush		20	轴承盒	Bearing Box	FC200
8	轴瓦压盖	Bush Cover		21	轴承	Bearing	
9	轴套	Shaft Sleeve	S45C	22	轴承压盖	Bearing Cover	FC200
10	轴套	Shaft Sleeve	FC200	23	电机座	Motor Base	FC250
11	轴套	Shaft Sleeve	SUS420J2	24	联轴器部件	Coupling	
12	密封环	Sealing Ring	FC200	25	电动机	Motor	
13	平衡鼓	Balance Drum	S45C				

注：不同机型结构略有不同。
Different model has a little difference.



型谱图 Performance chart

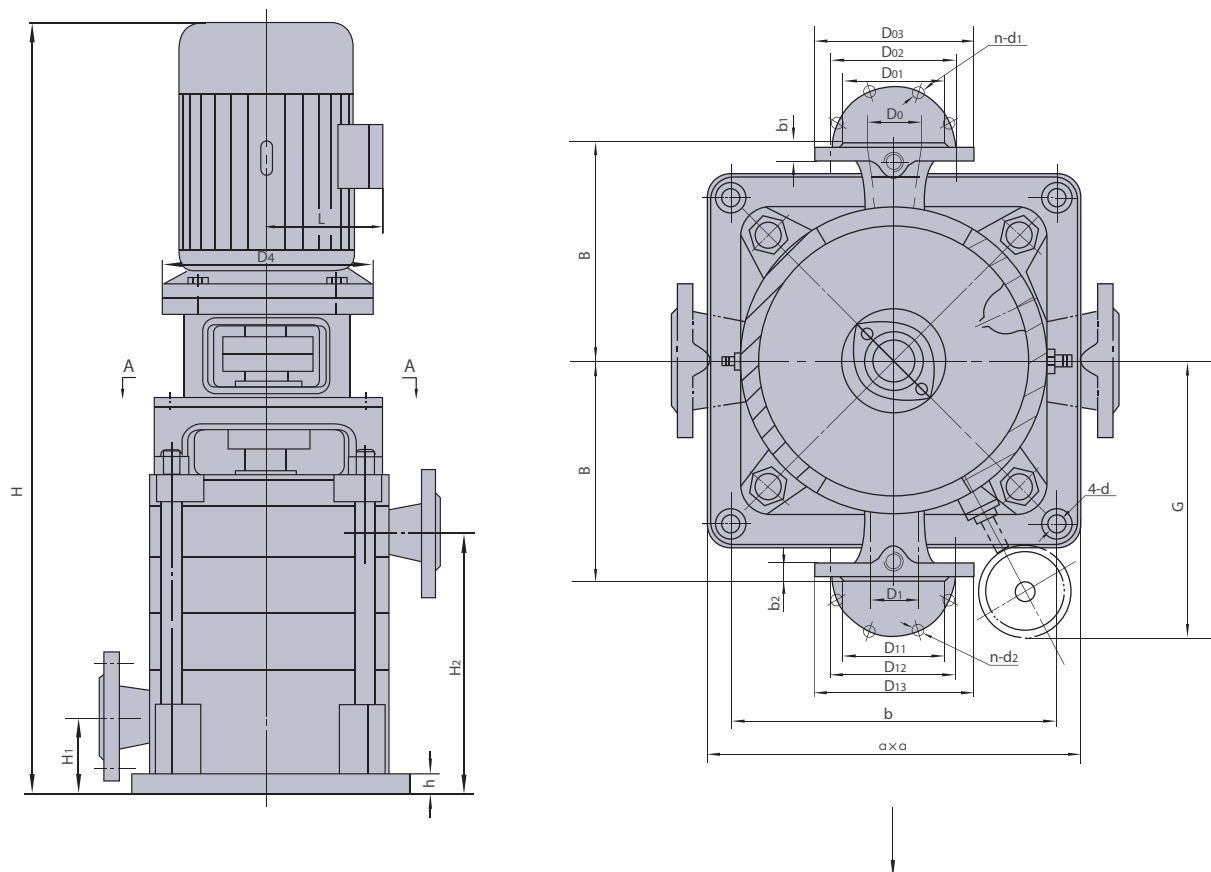


性能参数 Performance parameters

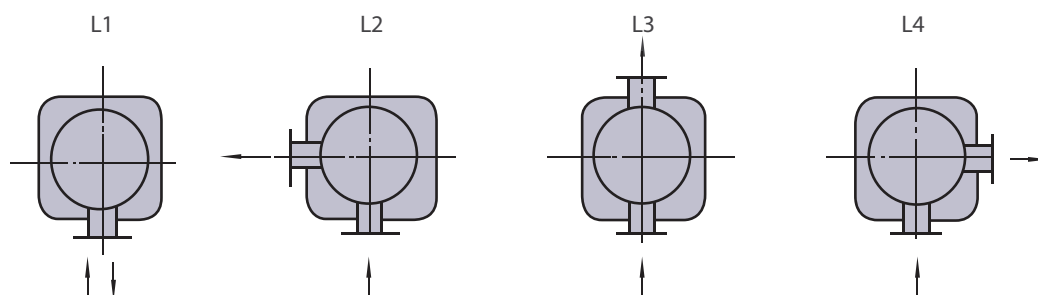
泵型号 Pump model	流量 Capacity (m ³ /h)	总扬程 Head (m)	转速 Speed (r/min)	电机功率 Motor power (kW)	泵效率 Eff. (%)	必需汽蚀余量 (NPSH) _r (m)	重量 Weight (kg)
MV(R)100-100-40/2	60 100 120	48 40 34	1450	18.5	67 72 65	2.5 3.0 3.5	64
MV(R)100-100-60/3	60 100 120	72 60 51	1450	30	67 72 65	2.5 3.0 3.5	711
MV(R)100-100-80/4	60 100 120	96 80 68	1450	37	67 72 65	2.5 3.0 3.5	723
MV(R)100-100-100/5	60 100 120	120 100 85	1450	45	67 72 65	2.5 3.0 3.5	835
MV(R)100-100-120/6	60 100 120	144 120 102	1450	55	67 72 65	2.5 3.0 3.5	1031
MV(R)150-180-50/2	160 180 200	52.6 50 47	1450	37	75.5 76 74.4	3.5	1210
MV(R)150-180-75/3	160 180 200	78.9 75 70.5	1450	55	75.5 76 74.4	3.5	1436
MV(R)150-180-100/4	160 180 200	106 100 94	1450	75	75.5 76 74.4	3.5	1700
MV(R)150-180-125/5	160 180 200	131.5 125 117.5	1450	90	75.5 76 74.4	3.5	1914
MV(R)150-180-150/6	160 180 200	157.8 150 141	1450	110	75.5 76 74.4	3.5	2258
MV(R)150-180-175/7	160 180 200	184.1 175 164.5	1450	132	75.5 76 74.4	3.5	2500
MV(R)150-180-200/8	160 180 200	210.4 200 188	1450	160	75.5 76 74.4	3.5	2692



外形及安装尺寸 Installation dimensions



泵进出口安装型式图



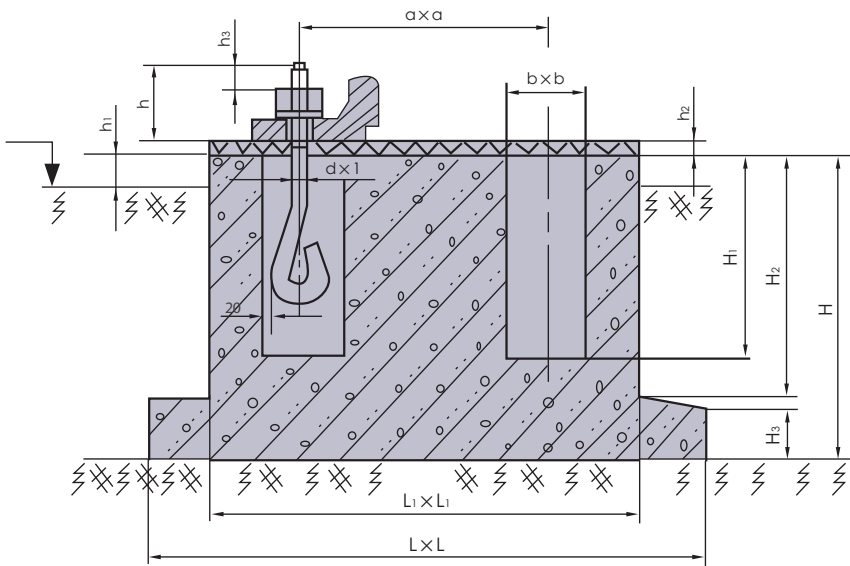
外形及安装尺寸 Installation dimensions

单位: (mm)

型号 Type	H	H ₁	H ₂	a	B	b	$\frac{D_1}{D_0}$	$\frac{D_{11}}{D_{01}}$	$\frac{D_{12}}{D_{02}}$	$\frac{D_{13}}{D_{03}}$	D ₄		G	4-dL	h	b ₁	b ₂	$\frac{n-d_1}{n-d_2}$
MV(R)100-100-40/2	1500	130	423	460	280	410	$\frac{\Phi 100}{\Phi 100}$	Φ158	$\frac{\Phi 180}{\Phi 180}$	$\frac{\Phi 200}{\Phi 200}$	Φ350	285	300	Φ24	50	24	24	$\frac{8-\Phi 17.5}{8-M16}$
MV(R)100-100-60/3	1723	130	526	460	280	410	$\frac{\Phi 100}{\Phi 100}$	Φ158	$\frac{\Phi 180}{\Phi 180}$	$\frac{\Phi 200}{\Phi 200}$	Φ400	310	300	Φ24	50	24	24	$\frac{8-\Phi 17.5}{8-M16}$
MV(R)100-100-80/4	1886	130	629	460	280	410	$\frac{\Phi 100}{\Phi 100}$	Φ158	$\frac{\Phi 180}{\Phi 180}$	$\frac{\Phi 200}{\Phi 200}$			300	Φ24	50	24	24	$\frac{8-\Phi 17.5}{8-M16}$
MV(R)100-100-100/5	2014	130	732	460	280	410	$\frac{\Phi 100}{\Phi 100}$	Φ158	$\frac{\Phi 180}{\Phi 180}$	$\frac{\Phi 200}{\Phi 200}$	Φ450	345	300	Φ24	50	24	24	$\frac{8-\Phi 17.5}{8-M16}$
MV(R)100-100-120/6	2217	130	835	460	280	410	$\frac{\Phi 100}{\Phi 100}$	Φ158	$\frac{\Phi 180}{\Phi 180}$	$\frac{\Phi 200}{\Phi 200}$	Φ550	385	300	Φ24	50	24	24	$\frac{8-\Phi 17.5}{8-M16}$
MV(R)150-180-50/2	1776	160	490	615	365	550	$\frac{\Phi 125}{\Phi 150}$	$\frac{\Phi 184}{\Phi 212}$	$\frac{\Phi 220}{\Phi 240}$	$\frac{\Phi 270}{\Phi 285}$	Φ450	345	493	Φ24	95	26	30	$\frac{8-\Phi 26}{8-\Phi 22}$
MV(R)150-180-75/3	2125	160	520	615	365	550	$\frac{\Phi 125}{\Phi 150}$	$\frac{\Phi 184}{\Phi 212}$	$\frac{\Phi 220}{\Phi 240}$	$\frac{\Phi 270}{\Phi 285}$	Φ550	385	493	Φ24	95	26	30	$\frac{8-\Phi 26}{8-\Phi 22}$
MV(R)150-180-100/4	2340	160	750	615	365	550	$\frac{\Phi 125}{\Phi 150}$	$\frac{\Phi 184}{\Phi 212}$	$\frac{\Phi 220}{\Phi 240}$	$\frac{\Phi 270}{\Phi 285}$	Φ550	410	493	Φ24	95	26	30	$\frac{8-\Phi 26}{8-\Phi 22}$
MV(R)150-180-125/5	2520	160	880	615	365	550	$\frac{\Phi 125}{\Phi 150}$	$\frac{\Phi 184}{\Phi 212}$	$\frac{\Phi 220}{\Phi 240}$	$\frac{\Phi 270}{\Phi 285}$	Φ550	410	493	Φ24	95	26	30	$\frac{8-\Phi 26}{8-\Phi 22}$
MV(R)150-180-150/6	2860	160	1010	615	365	550	$\frac{\Phi 125}{\Phi 150}$	$\frac{\Phi 184}{\Phi 212}$	$\frac{\Phi 220}{\Phi 240}$	$\frac{\Phi 270}{\Phi 285}$	Φ660	530	493	Φ24	95	26	30	$\frac{8-\Phi 26}{8-\Phi 22}$
MV(R)150-180-175/7	3040	160	1140	615	365	550	$\frac{\Phi 125}{\Phi 150}$	$\frac{\Phi 184}{\Phi 212}$	$\frac{\Phi 220}{\Phi 240}$	$\frac{\Phi 270}{\Phi 285}$	Φ660	530	493	Φ24	95	26	30	$\frac{8-\Phi 26}{8-\Phi 22}$
MV(R)150-180-200/8	3170	160	1260	615	365	550	$\frac{\Phi 125}{\Phi 150}$	$\frac{\Phi 184}{\Phi 212}$	$\frac{\Phi 220}{\Phi 240}$	$\frac{\Phi 270}{\Phi 285}$	Φ660	530	493	Φ24	95	26	30	$\frac{8-\Phi 26}{8-\Phi 22}$



基础尺寸对照片(供参考)



表一

单位:(mm)

代号 型号	尺寸	a	b	L	L ₁	H	H ₁	H ₂	H ₃	h	h ₁	h ₂	d×l	h ₃
MV(R)100-100-20		410	120	1000	800	900	750	815	80	70	50	50	M20×750	~12
MV(R)100-100-35		502	120	1100	850	1100	750	645	80	100	50	50	M24×750	~15
MV(R)100-72-20		480	120	1100	850	1100	750	645	80	100	50	50	M20×750	~15
MV(R)150-160-25		550	120	1400	950	1400	800	915	100	120	50	50	M20×750	~15

基础说明：该泵的基础可分为整体式用混凝土浇注，也可用砖砌成。用整体制时，尺寸可参考表一，混凝土标号150，水泥可用400号普通水泥。黄沙必须是不含泥土和其他杂质的纯净粗沙，石子为坚实的卵石或碎石。水泥的混合比一般为1:2:5。即为1份水泥、2份沙子、5份石子。在灌水泥时，在靠近地面和高出地面的部分应放有木模框，依基础尺寸做。

表一中的h₁h₂尺寸，可根据实际情况给定，二次灌浆的材料标号应比基础材料高一倍。如果浇注厚度大于50毫米时，采用细石混凝土，小于50毫米时采用1:2水泥砂浆，h₂尺寸不能小于30毫米，机组安装就位后的现场浇灌，施工时必须浇捣密实均匀与原混凝土结合良好。根据使用况可放置垫板，但不可超过30毫米，层面与底座紧贴不留空隙。地脚螺栓可选用GB799-88；3.6级。



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400-657-9066

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