



VM-U Series

Vertical multistage pump with 316 SS impellers and an IEC motor

Description



- Vertical multistage offline pump, flanged, with monobloc construction.
- Suitable for pressure booster sets, sprinkler irrigation systems, water transfer, and many other water applications.
- Equipped with a high-efficiency IE3 motor, rigid coupling, 2RS ball bearings, and a mechanical bellows seal with independent direction of rotation. EN12756 compliant.
- Impellers made of 316 SS for complete corrosion and scale-free operation. The impellers are equipped with drive cores. Pump casing in 304 SS.
- Very quiet operation thanks to a four-point guided shaft.

Materials

Suction base casing	GG-25 Grey cast iron
Discharge casing	GG-25 Grey cast iron
Pump casing	304 Stainless steel
Impellers	316 Stainless steel
Mechanical seal	Carbon-ceramic friction faces, NBR elastomers, and other metal parts in 304 stainless steel
Bearings	Sealed deep-groove ball bearings with lifetime lubrication (2RS)

Technical data

Motor	Single-phase or three-phase, according to IEC 60034 standard
Efficiency	- IE3 for power ratings > 1 HP - IE1 if the power rating < 1 HP - Can be supplied up to IE5
Tension	- Single-phase 230 V for some models - Three-phase 230/400 V or 400/690 V, depending on the model and power
Poles	2
Level of protection	IP55
Insulation	F Class

Usage limits

Flow rate range	Up to 22000 l/h
Pressure range	Up to 14 bar depending on the model
Max. working pressure	16 bar
Max. operating temperature	60°C
Max. suction head	7 m

Connections

Models	Suction	Discharge
VM-U 10	1 ½"	1 ¼"
VM-U 16	1 ½"	1 ½"
VM-U 20	2"	1 ½"



Pump characteristics and performance.

VM-U 10

VM-U 10 models	Power	Tension	Current draw		Suction head (m - bar)																
					15	20	25	30	35	40	45	50	60	70	80	90	100	110	120	130	140
	HP	V	A		1,5	2	2,5	3	3,5	4	4,5	5	6	7	8	9	10	11	12	13	14
VM-U 10/4	1,5	230	6,8	Flow rate (m³/h)	10,5	9,8	9	8,2	7,1	6	4,5	2									
230/400		4,1/2,35																			
VM-U 10/5	2	230	9,15		11	10,5	10	9,2	8,6	8	7	6,2	4,1								
230/400		5,41/3,11																			
VM-U 10/6	3	230/400	7,63/4,38			10,8	10,2	9,7	9,2	8,7	8	7,7	6,5	4,5							
VM-U 10/7	3	230/400	7,63/4,38			11,2	10,7	10,1	9,5	9,2	8,7	8,2	7,5	6	4,5	1,5					
VM-U 10/8	4	230/400	10,1/5,8			11,5	10,9	10,4	10	9,7	9,3	9	8,2	7,4	6,2	4,5	3				
VM-U 10/9	4	230/400	10,1/5,8				11,2	10,5	10,2	10	9,5	9,2	8,7	8	7,1	6	5	3	1		
VM-U 10/12	5,5	230/400	13,7/7,65				11,5	10,9	10,7	10,5	10	9,5	9,1	8,5	8	7,2	6	5,2	4	1,5	
VM-U 10/13	5,5	230/400	13,7/7,65					11	10,7	10,4	10,2	10	9,6	9	8,4	8	7	6,3	5,6	4,5	1,5

VM-U 16

VM-U 16 models	Power	Tension	Current draw		Suction head (m - bar)															
					10	15	20	25	30	35	40	45	50	60	70	80	90	100	115	117
	HP	V	A		1	1,5	2	2,5	3	3,5	4	4,5	5	6	7	8	9	10	11,5	11,7
VM-U 16/8N	4	230/400	10,1/5,8	Flow rate (m³/h)		16	15,5	15	14,4	13,7	13	12,3	11,6	10	8	4				
VM-U 16/11N	5,5	230/400	13,7/7,65				16,3	15,9	15,5	15	14,5	14	13,6	12,5	11	9,3	9	7	5	4

- The impellers for the VM-U 16 models are made of Noryl (GFN2).

VM-U 20

Models VM-U 20	Power	Tension	Current draw		Suction head (m - bar)																
					5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	110	120
	HP	V	A		0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	6	7	8	9	10	11	12
VM-U 20/6	4	230/400	10,1/5,8	Flow rate (m³/h)		21,7	20	18,2	16,7	15,3	13,6	11,9	9,7	7,4	2						
VM-U 20/8	5,5	230/400	13,7/7,65			21,7	20,7	19,7	18,7	17,6	16,5	15,4	14,1	12,9	9,8	5,3	2				
VM-U 20/11	7,5	400/690	10,1/6,97			21,7	21,5	21,2	20,7	20,2	19,5	19	18,4	17,9	16,7	15	13,6	11,3	9	5,6	1

- The impellers for the VM-U 20 models can also be manufactured in Noryl (GFN2).



Dimensions

Models	Overall dimensions								
	A	B	C	D	ØE	ØK	F	DNA	DNI
VM-U 10									
VM-U 10/4	37	190	227	670,3	188	11	166	1 ½"	1 ¼"
VM-U 10/5		215	252	720,3					
VM-U 10/6		240	277	770,3					
VM-U 10/7		265	302	795,3					
VM-U 10/8		290	327	836,3					
VM-U 10/9		315	352	861,3					
VM-U 10/12		390	427	961,3					
VM-U 10/13		415	452	986,3					
VM-U 16									
VM-U 16/8N	37	419,5	456,5	965,8	188	11	166	1 ½"	1 ½"
VM-U 16/11N		543,5	580,5	1114,8					
VM-U 20									
VM-U 20/6	37	378,5	415,5	924,8	188	11	166	2"	1 ½"
VM-U 20/8		419,5	456,5	990,8					
VM-U 20/11		543,5	580,5	1114,8					

