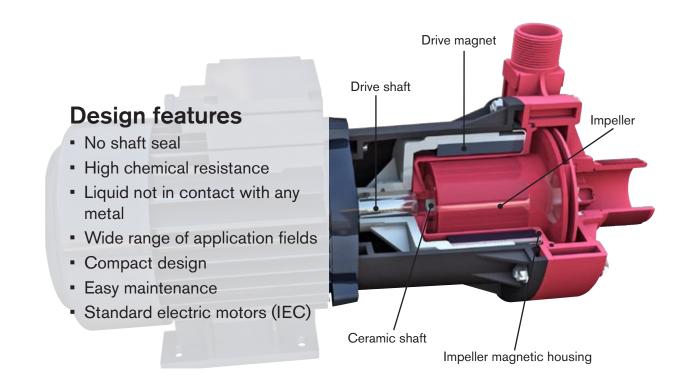


MDR Seal-less Centrifugal Pumps







Operating principle

The drive magnet attached to the drive shaft transfers its torque to the impeller magnet. The impeller then rotates around its ceramic shaft on the impeller body – without any physical contact between the drive shaft and the pump body.

No shaft seal to leak, wear or replace!

Applications

Johnson Pump MDR magnetic drive centrifugal pumps are seal-less and chemically resistant, making them ideal for transporting aggressive, hazardous and valuable liquids.

Surface treatment, water purification and cleaning, photo development, battery production, paper industry, CIP and soap production are just a few of the application areas where MDR excels.

Density

Two different types of impellers are available for maximum density

- -1V for maximum 1.2 kg/dm³
- -1VD for maximum 1.8 kg/dm³

Motors

The pumps are delivered with three-phase standard foot-mounted motors with small IECflanges. For the smaller pumps-MDR45 and MDR75-single phase motors can be provided.

The flange betweeen the motor and pump body is made of PP for improved chemical resistance.

Materials

- All wetted parts are made of non-metallic materials.
- Pump body and magnetic housing are moulded in the plastic materials PP or PVDF. PP (P3) = Fiberglass reinforced Polypropylene

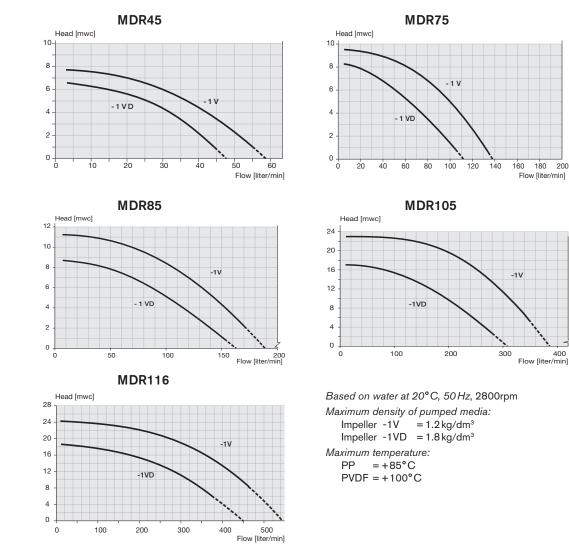
PVDF (P2) = Carbon Filled Polyvinylidene Flouride

- Impeller magnets are fully encapsulated in the plastic impeller of PP or PVDF – for maximum chemical resistance
- Shaft end and thrust washers are made of high quality ceramic, impeller bearings of Rulon[®] – for optimal service life
- Viton[®] O-ring between pump body and magnet housing – resistant to most chemicals
- Other O-ring materials on request

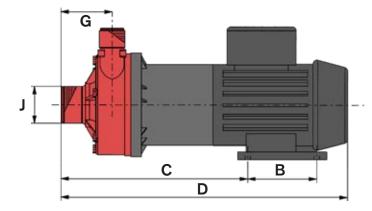


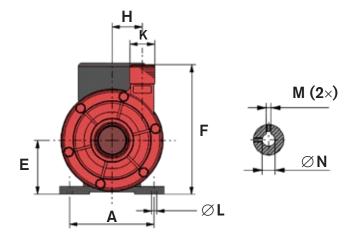
Rulon is a registered trademark of Saint-Gobain Performance Plastics Corporation Viton is a registered trademark of DuPont Performance Elastomers

Capacity curves



Dimensions and weights





	Α	В	С	D	Е	F	G	Н	J	K	L	М	Ν	Weight, kg	
									male	male				Compl pump	Head kit
MDR45P-1V/-VD	90	71	166	272	56	130	44	35	BSP1"	BSP1/2"	5.8	M6	9	4.5	1.2
MDR75P-1V/-VD	100	80	191.5	322	63	141	60	37	BSP1.1/4"	BSP3/4"	7	M5	11	5.8	1.5
MDR85P-1V/-VD	112	90	242	373	71	171	66	40	BSP1.1/2"	BSP1"	7	M5	14	10.3	2.9
MDR105P-1V/-VD	140	100	319.5	490	90	222	93	58.5	BSP2"	BSP1.1/4"	10	M8	24	23.6	7.2
MDR116P-1V/-VD	140	125	319.5	512	90	222	93	58.5	BSP2"	BSP1.1/4"	10	M8	24	26.6	7.2
-															

Dimensions in mm





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