

IWAKI Magnetic drive turbine pumps MDT series



Compact size but high pressure of 0.35MPa

MDT Series is plastics made magnetic drive turbine pump. Small flow and high head. Small size but high pressure up to 0.35MPa is available.

No leakage seal-less construction makes it most suitable for being incorporated in equipments such as laser and X ray system cooling and temperature control system etc.

Seal-less construction

Thanks to magnet drive seal-less construction, no liquid leaks and no shaft-seal replacement is required.

High pressure/high vacuum

Small size but high pressure up to 0.35MPa is available. It can be used for negative pressure of suction side because it makes suction pressure up to 8.00kPa.

Non-metal construction

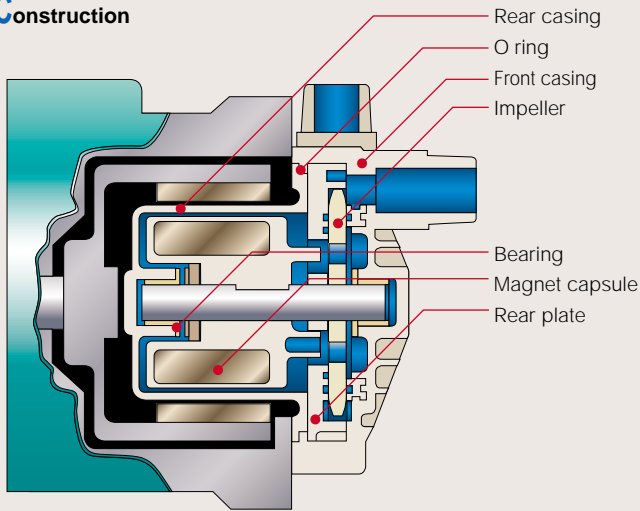
Wet-ends are corrosion resistant materials such as PPS, PEEK, ceramic, carbon. It can handle various chemicals such as acid and alkaline solutions because no metal is used.

Compact design

Ideal for incorporation in equipment and apparatus because it is small size and compact design.



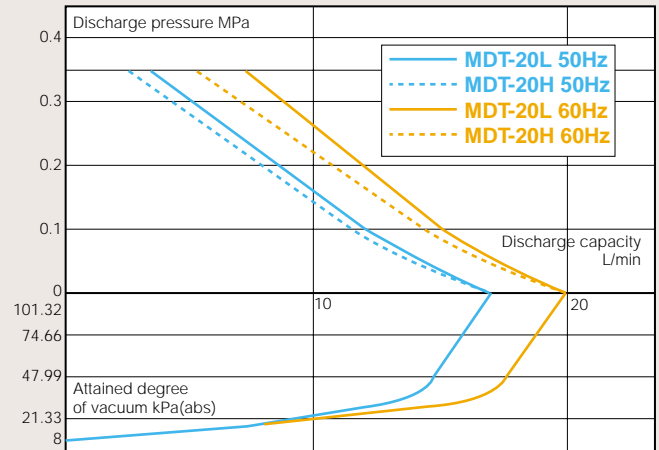
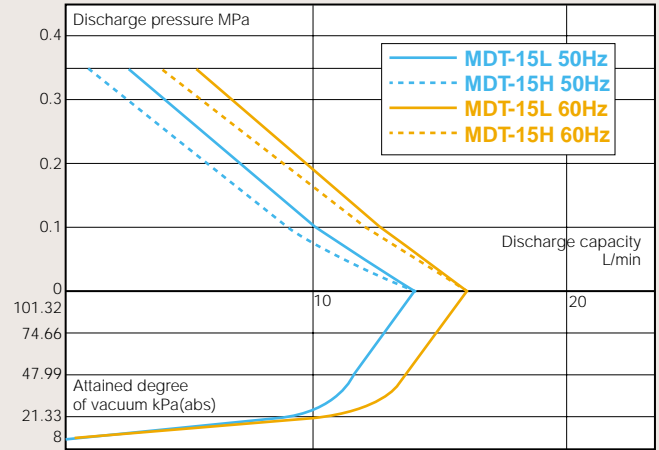
Construction



Wet end materials

Part name	Material
Front casing	GFRPPS, CFRPPS
Thrust	
Rear casing	GFRPPS
Rear plate	GFRPPS
Impeller	CFRPEEK
Magnet capsule	GFRPPS, CFRPPS, Alminaceramic
Spindle	
O ring	EPDM
Bearing	Carbon or siliconized graphite

Performance curves



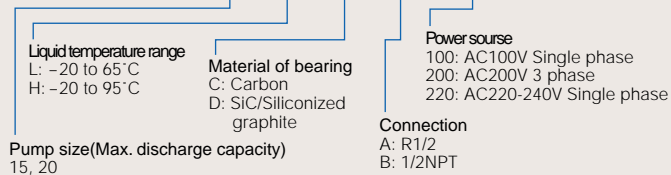
Specifications

Model	Connection Suction/discharge	Max. capacity L/min	Max. pressure MPa	Attained degree of vacuum kPa(abs)	Liquid temperature range °C	Motor	Mass kg
MDT-15L	R1/2 or 1/2NPT	14/16	0.35	8.00	-20 to 65	AC100V/220V 180/220W Single phase or AC200V 180/220W 3 phase	6.3
MDT-15H				9.33	-20 to 95		
MDT-20L		17/20		8.00	-20 to 65		
MDT-20H				8.00	-20 to 95		

Note1: Ask us for liquid below 0 °C temperature. Note2: Max. permissible liquid viscosity is 2mPa.s. Ask us for more viscous liquid. Note3: Slurries containing liquid can not be handled. Note4: Above mentioned performance is pumping clear water at ambient temp. (25°C). Performance may change depending on liquid characteristics and temperature. Ask us for details.

Pump identification

MDT - 15 L C A 100



Dimensions in mm

