

## MDE Series



### HIGH PURITY PROCESSING AND TRANSFER NEEDS

Wet End Materials		
	EK	PK
Front casing liner	100% ETFE	100% PFA
Containment shell		
Impeller		
Casing cover		
Inner magnet		
Bearing (inner)	SiC	
Bearing (outer)		
Gasket	PTFE	
O-ring	Kalrez®	

Kalrez® is a registered trademark of DuPont Dow Elastomers L.L.C

MDE is the largest in the Iwaki America chemical process pump line. This series delivers fluid purity protection, corrosion resistance, durability and safety. MDE combines state-of-the-art magnetic drive pump technology with ANSI B73.1 dimensions to make replacement of sealed pumps fast and easy.

MDE is offered in either ETFE for **cost-effective handling of aggressive fluids** or PFA for the **highest level of purity** available in semiconductor or electronics grade applications.

MDE's non-metallic **containment shell cover** eliminates eddy currents and prevents any sparks from occurring in the event of drive magnet contact. This high-strength cover also reinforces the containment shell, providing a second level of pressure containment.

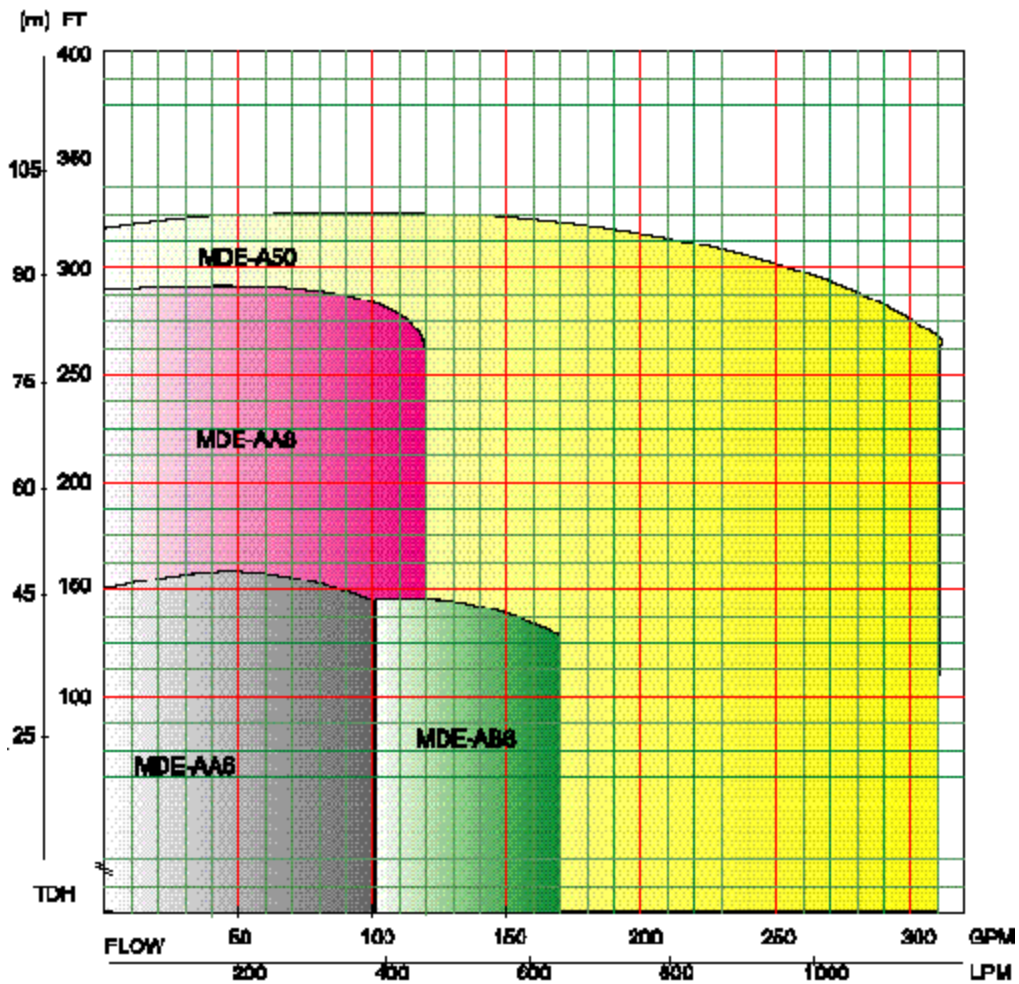
Iwaki America materials deliver higher levels of **durability and safety** - all fluororesin casing parts are housed in coated ductile cast iron for additional ruggedness.

**Simple disassembly and maintenance** - back pull-out construction allows MDE internal parts to be checked or replaced without disturbing piping. Components such as bearings and thrust collars can easily be replaced individually.

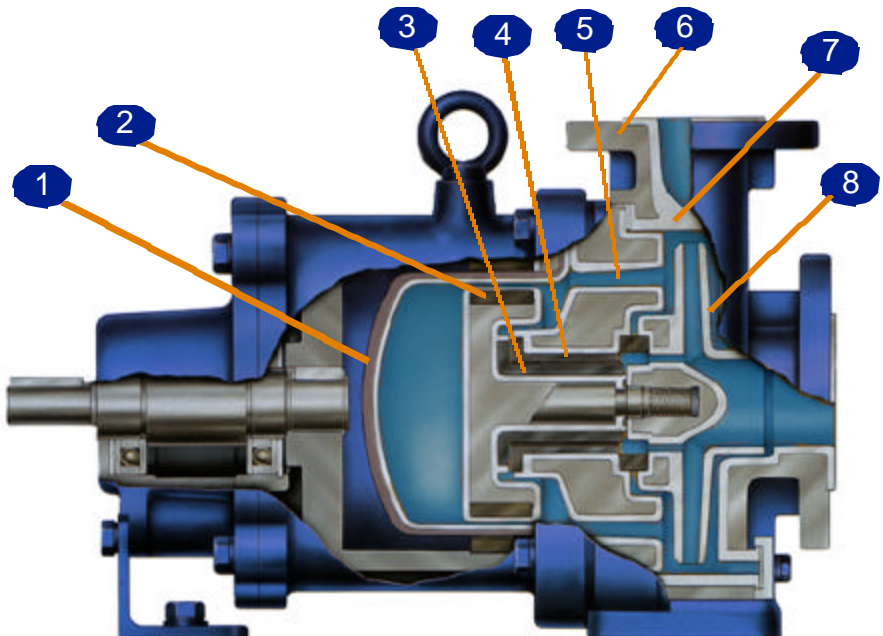
The MDE not only meets, but **exceeds the requirements for smart, sealless pumps**. Proven monitoring options, available at an affordable price, help protect not only your pump, but also your process from unexpected interruptions.



# PERFORMANCE CURVE

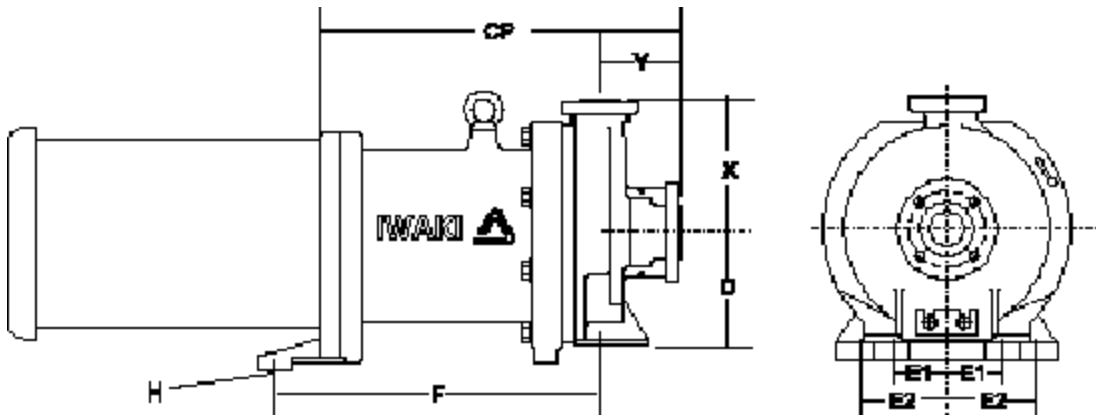


- 1 Containment shell/cover
- 2 Inner magnet
- 3 Inner bearing
- 4 Outer bearing
- 5 Casing cover
- 6 Front casing
- 7 Casing liner
- 8 Impeller



# DIMENSIONS

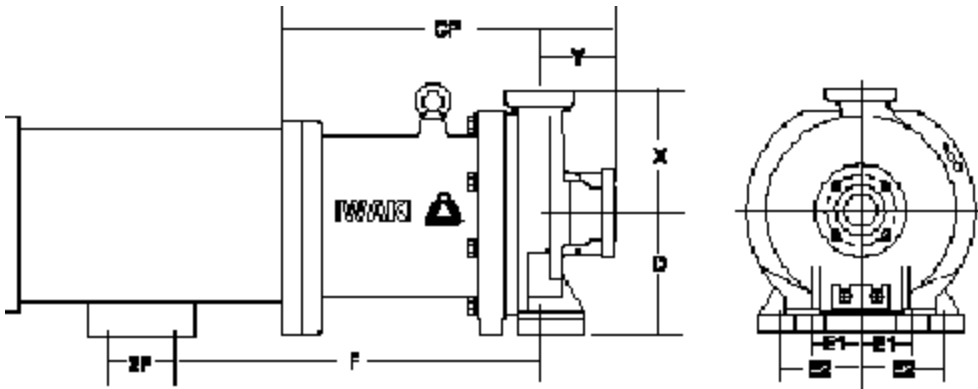
## Close-coupled Mounted Motor Type



**Close Coupled Units (5-15HP) Dimensions in inches (mm)**

Model	Size	X	D	E1	E2	CP	F	H	Y
MDE-AA6	1½ x 1 x 6	6.50 (165.1)	6.28 (159.5)	3.00 (76.0)	4.33 (110.0)	15.09 (383.4)	14.08 (357.6)	0.63 (15.9)	4.00 (101.6)
MDE-AB6	3 x 1½ x 6								
MDE-AA8	1½ x 1 x 8								

**Weight lbs (kg)  
w/outer magnet installed**



HP	MDE-AA6	MDE-AB6	MDE-AA8
5.0	156 (70.9)	159 (72.3)	166 (75.5)
7.5	154 (70.0)	158 (71.8)	168 (76.4)
10.0	156 (70.9)	162 (73.6)	170 (77.3)
15.0	162 (73.6)	169 (76.8)	175 (79.5)
20.0	163 (74.1)	168 (76.4)	174 (79.1)
25.0	165 (75.0)	170 (77.3)	176 (80.0)

## Close Coupled Units (20 HP)

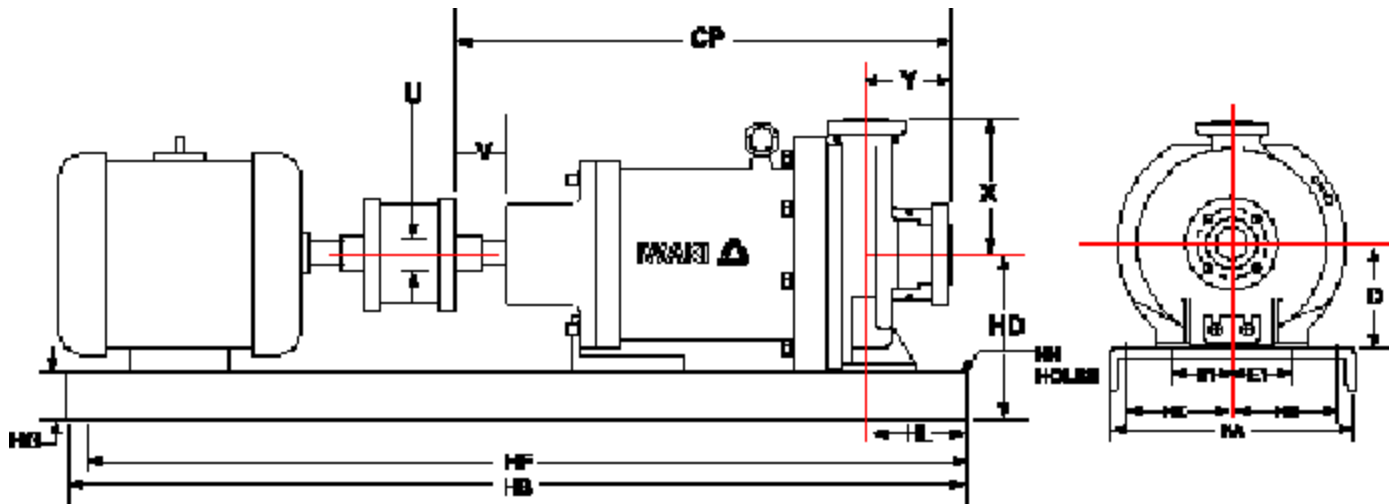
Model	Size	X	D	E1	E2	CP	F	2F	H	Y
MDE-AA6	1½ x 1 x 6	6.50 (165.1)	6.28 (159.5)	3.00 (76.0)	5.00 (127.0)	15.08 (383.0)	15.82 (401.8)	10.00 (254.0)	0.63 (15.9)	4.00 (101.6)
MDE-AB6	3 x 1½ x 6									
MDE-AA8	1½ x 1 x 8									

## Close Coupled Units (25 HP)

Model	Size	X	D	E1	E2	CP	F	2F	H	Y
MDE-AA6	1½ x 1 x 6	6.50 (165.1)	6.28 (159.5)	3.00 (76.0)	5.50 (139.7)	15.55 (394.9)	16.30 (413.9)	9.50 (241.3)	0.63 (15.9)	4.00 (101.6)
MDE-AB6	3 x 1½ x 6									
MDE-AA8	1½ x 1 x 8									

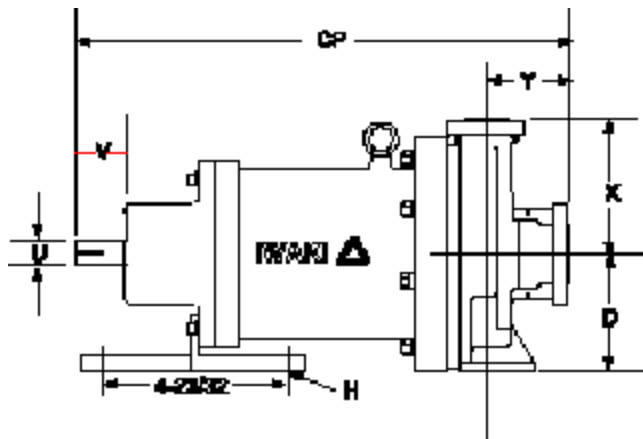
# Dimensions

## Frame Mounted Motor Type



### Dimensions in inches (mm)

Model	Size	X	D	E1	CP	F	H	U	V	Y
MDE-AA6	1½ x 1 x 6	6.50 (165.1)	5.25 (133.4)	3.00 (76.0)	17.50 (444.5)	7.25 (184.2)	0.63 (15.9)	0.875 (22.2)	2.06 (52.4)	4.00 (101.6)
MDE-AB6	3 x 1½ x 6									
MDE-AA8	1½ x 1 x 8									



### Weight lbs (kg)

HP	MDE-AA6	MDE-AB6	MDE-AA8
5.0	133 (60.5)	140 (63.6)	148 (67.3)
7.5	134 (60.9)	141 (64.1)	149 (67.7)
10.0	137 (62.3)	144 (65.5)	151 (68.6)
15.0	140 (63.3)	147 (66.8)	156 (70.9)
20.0	140 (63.3)	147 (66.8)	158 (71.8)
25.0	143 (65.0)	150 (68.2)	160 (72.7)

### Baseplate Mounting Dimensions in inches (mm)

(Baseplate optional)

Baseplate	Max. Motor Frame	HA	HB	HD	HE	HF	HG	HH	HL	HP	Weight lbs (kg)
139	184T	15.00 (381.0)	39.00 (990.6)	9.00 (228.6)	4.50 (114.3)	36.50 (927.1)	3.75 (95.3)	0.75 (19.1)	4.50 (114.3)	1.25 (31.8)	135 (61.2)
148	215T	15.00 (381.0)	48.00 (1219.2)	10.00 (254.0)	6.00 (152.4)	45.50 (1155.7)	3.75 (95.3)	0.75 (19.1)	4.50 (114.3)	1.25 (31.8)	167 (75.7)
148	256T	15.00 (381.0)	48.00 (1219.2)	10.00 (254.0)	6.00 (152.4)	45.50 (1155.7)	3.75 (95.3)	0.75 (19.1)	4.50 (114.3)	1.25 (31.8)	167 (75.7)

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