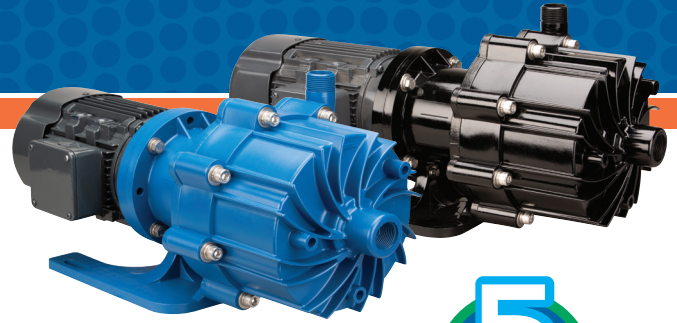




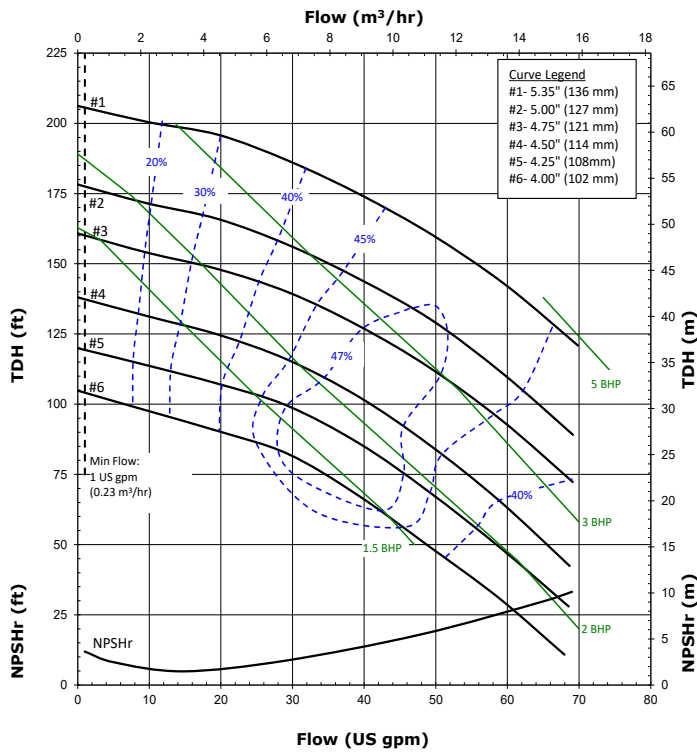
MSDB SERIES

MODEL MSDB2



5
YEAR
WARRANTY

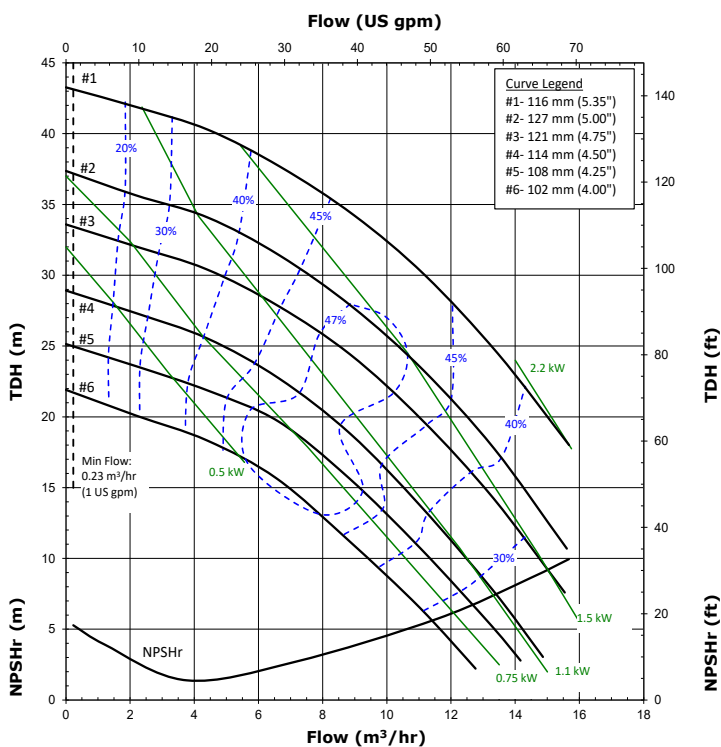
MSDB2 PERFORMANCE 3450 RPM



FEATURES & CAPABILITIES

- Two stage magnetic drive centrifugal pump
- Five-year warranty
- Extended run dry ability (with carbon bushing)
- Easy set, measurement-free drive
- Polypropylene/ PPS or PVDF/ PPS construction
- Powerful neodymium magnets
- Close-coupled design
- 1" Threaded (NPT or BSP), or flange connections
- Vertical installation with IEC motor
- Back pullout design
- Mounts to NEMA and IEC motor frames
- Pump outer drive shall conform to ISO 1940 G2.5 balancing
- CE certified/ATEX available
- Working pressure up to 135 PSI (9.3 bar)
- Specific gravity over 1.8
- Viscosity up to 150 cP
- Polypropylene/ PPS – 180° F (82° C)
- PVDF/ PPS – 220° F (104° C)

MSDB2 PERFORMANCE 2900 RPM



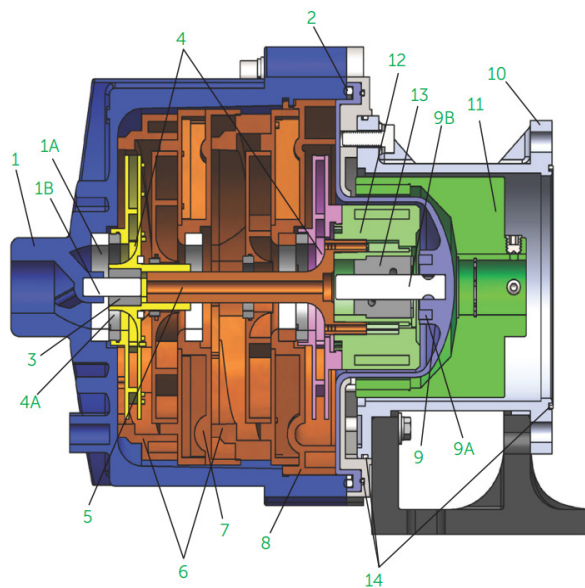
APPLICATIONS

- Chemical processing
- Plating
- Water and wastewater
- Electronics
- Pharmaceuticals
- Wet scrubber
- Spray applications
- Filtration

MSDB SERIES

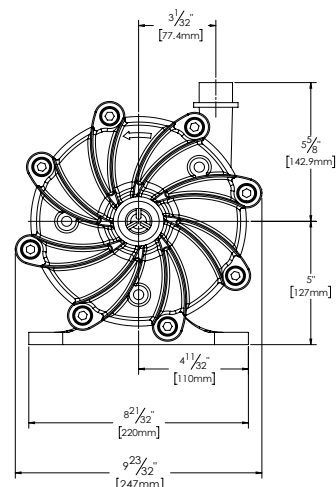
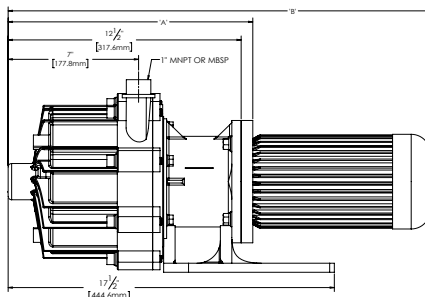
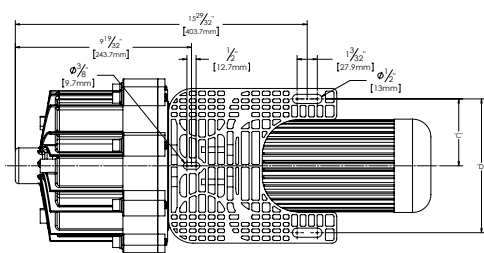
SPECIFICATIONS

Description	Polypropylene	PVDF
1 MSDB Housing	Glass-fiber reinforced polypropylene (GF PP)	Carbon-fiber reinforced PVDF (CF PVDF)
1A Housing Thrust Ring	High-purity alumina ceramic or silicon carbide (SiC)	
1B Housing Shaft	High-purity alumina ceramic or silicon carbide (SiC)	
2 Housing O-ring	FKM, EPDM, Simriz®, or Kalrez	
3 Impeller Bushing	Carbon, glass-filled PTFE, alumina ceramic, or silicon carbide (SiC)	
4 Impellers	Polyphenylene (PPS)	
4A Impeller Thrust Ring	GF molybdenum disulfide filled PTFE, or silicon carbide (SiC)	
5 Pump Shaft	Polyphenylene (PPS)	
6 Diffuser	Polyphenylene (PPS)	
7 Middle Housing	Polyphenylene (PPS)	
8 Inner Volute	Polyphenylene (PPS)	
9 Barrier	GF Polypropylene	CF PVDF
9A Barrier Thrust Ring	High-purity alumina ceramic	
9B Bushing	High-purity alumina ceramic or silicon carbide (SiC)	
10 Motor Adapter	GF Polypropylene	
11 Outer Drive Hub	Nickel-plated neodymium iron boron magnets/steel	
12 Impeller Drive	Epoxy-coated neodymium iron boron magnets encapsulated in:	
	unfilled polypropylene	unfilled PVDF
13 Impeller Drive Bushing	Carbon, glass-filled PTFE, or silicon carbide (SiC)	
14 Vapor Protection O-rings	Buna N	



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DIMENSIONS



Motor Frame	A	B†	C	D	lbs. [kg] PP	lbs. [kg] PDVF
NEMA 56C FR.	12-1/2" [31.75 cm]	23-11/16" [60.17 cm]	3-3/4" [9.5 cm]	7-1/2" [19.1 cm]	30 [13.6]	33 [15]
NEMA 143/5 TC FR.	12-1/2" [31.75 cm]	23-21/32" [60.09 cm]	3-3/4" [9.5 cm]	7-1/2" [19.1 cm]	30 [13.6]	33 [15]
NEMA 182/4TC FR.	13-3/8" [33.97 cm]	27-9/32" [69.29 cm]	3-3/4" [9.5 cm]	7-1/2" [19.1 cm]	30 [13.6]	33 [15]
IEC 80 FR. B5/B14	13-1/8" [33.34 cm]	23-3/16" [58.9 cm]	3-3/4" [9.5 cm]	7-1/2" [19.1 cm]	30 [13.6]	33 [15]
IEC 90 FR. B5/14	13-1/8" [33.34 cm]	23-3/8" [59.4 cm]	3-3/4" [9.5 cm]	7-1/2" [19.1 cm]	30 [13.6]	33 [15]
IEC 100 FR. B5/B14	13-3/16" [33.5 cm]	24-7/8" [63.2 cm]	3-5/32" [8.0 cm]	6-10/32" [16.0 cm]	30 [13.6]	33 [15]
IEC 112 FR. B5/B14	13-3/16" [33.5 cm]	25-3/8" [64.5 cm]	3-3/4" [9.5 cm]	7-1/2" [19.1 cm]	30 [13.6]	33 [15]

Note: Contact factory for dimensions on flanged models. *For B5 weight, add 3 lbs. to 80/90 B14 frame weight and 6 lbs. to 100/112 B14 frame weight.
†Varies with motor manufacturer.



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