

Centrifugal Pumps

Finish Thompson - DB Series Magnetic Drive Pumps

FTI's DB Series magnetic drive pumps are the product of advanced engineering CFD design software and superior magnetic flux technology. Using powerful neodymium magnetic technology, the DB sealless mag drive pumps are an ideal replacement for mechanical sealed pumps in corrosive duty applications.

Features:

- Engineered for performance with state of the art software
- Runs dry for hours without damage
- Best efficiency double of any pump in its class
- Sealless design improves reliability with no seal maintenance to perform or seal leaks
- Magnetic drive pump
- Polypropylene or PVDF corrosion resistant construction
- Horizontal or vertical (with IEC motor only) installation
- High specific gravity handling - over 1.8
- *Threaded (NPT or BSP), flanged or union connections

DB Specifications

- Up to 70% operating efficiency
- High working pressure up to 90 psi/6.2 bar
- Maximum viscosity:
 - Up to 150 cP
- Maximum temperature:
 - Polypropylene - 180 °F (82 °C)
 - PVDF - 220 °F (104 °C)

DB Applications

- Chemical processes
- Wastewater treatment
- OEM equipment supply
- Fume scrubbing
- Paper mills
- Pharmaceutical
- Metal plating/working
- Electronics manufacturing
- DI & high purity water
- Mining
- Printing
- Chillers



Model	Max Flow (GPM)	Max Head (ft)	Suction/Discharge	Impeller Diameter	RPM (60Hz)	HP Requirement*
DB3	15	21	1 x 1/2	2.3	3450	1/8
DB4	18	29	1 x 1/2	2.7	3450	1/4
DB5	19.5	35	1 x 1/2	3	3450	1/4
DB5.5	30	31	1 x 3/4	3	3450	1/2
DB6	31-40	21-32	1 x 1	2.5-3	3450	1/4-1/3
DB6H	31-42	31-54	1 x 1	3.12-3.88	3450	1/4-1/2
DB7	49-70	24-34	1-1/2 x 1-1/2	2.75-3.18	3450	1/4-1/2
DB8	42-61	25-46	1-1/2 x 1	2.88-3.63	3450	1/3-3/4
DB9	46	67	1 x 1	4.18	3450	1/2-3/4
DB10	67-95	28-52	1-1/2 x 1-1/2	3-3.75	3450	1/3-1
DB11	78-116	42-74	2 x 1-1/2	3.63-4.63	3450	3/4-2
DB15	112-136	63-98	2 x 1-1/2	2.3	3450	1.5-3
DB22	136-203	67-184	2 x 2 or 3 x 2	4.5-7.25	3450	3-10

Finish Thompson - SP Series Self-Priming Magnetic Drive Pumps

FTI's SP Series Magnetic Drive Self-Priming Pumps are the product of advanced engineering CFD design software and superior magnetic flux technology. The SP Series combines deep-lift capabilities and lightning-fast priming with the advantages of neodymium magnetic drive technology and corrosion resistant polypropylene and PVDF to handle the most difficult applications with no seal replacement, no leaks and the capability to run-dry without damage.

Features:

- Big on power - short on energy consumption
 - Deep-lift capabilities (up to 25'/7.6m)
 - Lightning-fast priming (18'/5.5m in 90 seconds)
 - Ease of operation
 - No seal replacement and no leaks
 - Corrosion-resistant materials handle the most difficult applications
- *Threaded (NPT or BSP), flanged or union connections

SP Specifications

- Up to 70% operating efficiency
- High working pressure up to 90 psi/6.2 bar
- Maximum viscosity:
 - Up to 50 cP
- Maximum temperature:
 - Polypropylene - 180 °F (82 °C)
 - PVDF - 220 °F (104 °C)

SP Specifications

- SP retains fluid for re-priming when shut off without a check valve
- SP lifts up to 25' (7.6m)
- SP primes up to 18' (5.5m) in 90 seconds

SP Applications

- Sumps
- Underground storage tanks
- Rail cars and tanker trucks
- Over-the-wall applications
- Double containment tanks
- Piping systems that tend to have trapped or entrained air



Model	Max Flow (GPM)	Max Head (ft)	Suction/Discharge	Impeller Diameter	RPM (60Hz)	HP Requirement*
SP10	38-53	25-63	1 x 1	3-4.18	3450	1/3-1.5
SP11	78-104	40-68	1-1/2 x 1-1/2	3.63-4.63	3450	1-2
SP15	99-120	59-90	1-1/2 x 1-1/2	4.25-5.13	3450	2-3
SP22	160-230	73-142	2 x 2 or 3 x 2	5-6.5	3450	5-10

Centrifugal Pumps

Finish Thompson - MSDB Series Multi-stage Magnetic Drive Pumps

FTI's MSDB Series magnetic drive multi-stage pumps are ideal for high head, low flow applications like spray, filtration and chemical delivery. Based on proven DB11/15 platform, the MSDB produces much higher heads at lower flows allowing the use of a smaller, less expensive pump.

Features:

- Heads up to 300 feet, Minimum flow rate is 1 gpm
- Maximum working pressure up to 135 PSI and High specific gravity handling - over 1.8
- Horizontal or vertical (with IEC motor only) installation
- Sealless design improves reliability with no seal maintenance to perform or seal leaks
- High power neodymium magnetic drive system handles high specific gravity fluids
- Two stage versions contain two impellers, three stage versions contain three impellers
- Engineered for corrosive fluids with polypropylene/Ryton® construction or PVDF/Ryton® construction
- Compact close-coupled design

*Threaded (NPT or BSP) or flanged



MSDB Specifications

- Up to 47% operating efficiency
- High working pressure up to 135 psi/9.3 bar
- Maximum viscosity:
 - Up to 150 cP
- Maximum temperature:
 - Polypropylene/Ryton® (MSDB) - 180 °F (82 °C)
 - PVDF/Ryton® (MSDB) - 220 °F (104 °C)

MSDB Applications

- Spray applications like rinse, acid etch, product application, ball spray head tank cleaning
- Filtration
- DI/conditioned/RO/ultrafiltration water systems
- Wet scrubbers
- Chemical delivery systems
- Small diameter piping systems

Model	Max Flow (GPM)	Max Head (ft)	Suction/Discharge	Impeller Diameter	RPM (60Hz)	HP Requirement*
MSDB2	67-70	100-205	1 x 1	4-5.35	3450	2-5
MSDB3	66-69	150-306	1 x 1	4-5.35	3450	3-7.5

*Horsepower based on 1.0 SG

Finish Thompson - UC Series ANSI Dimensional Mag Drive Pumps

Engineered for extreme reliability in the most extreme chemical processing applications, UC Series is a heavy duty, magnetically driven, ANSI dimensional pump. It features exterior components constructed from tough ductile iron with a pure ETFE lining and no wetted metallic parts for superior corrosion resistance. With available 18 models UC Series pumps offer a tremendous hydraulic range to handle the widest range of applications.

Features:

- Meets ANSI/ASME B73.1m & 73.3 dimensional requirements for foot and flange for easy installation
- Single piece, snap fit impeller, allows impeller to be replaced if damaged without having to purchase inner drive magnet
- Silicon carbide, Dri-Coat silicon carbide or carbon bushing options for application flexibility
- High strength neodymium iron boron magnets to transfer maximum power reliably
- Wide hydraulic coverage from 1 gpm to 1,450 gpm, heads to 492 feet
- Temperatures to 250° F/121° C
- Viscosity to 200 cP
- Gas engine options for remote or emergency applications



Model	Suction x Discharge x Maximum Impeller Ø	ANSI Dimension Designator	Flow Range @ 60 Hz (GPM)	Max Head (ft)	Power Range (HP)*
UC1516	1-1/2" x 1" x 6"	AA	5-167	180	1.7-8.8
UC1516L	1-1/2" x 1" x 6"	AA	1-41	180	1.8-4.6
UC1518	1-1/2" x 1" x 8"	AA	5-181	330	3.6-21.4
UC1518L	1-1/2" x 1" x 8"	AA	1-38	330	3.6-8.8
UC2110	2" x 1" x 10"	A05	15-201	492	5.6-40.2
UC2110L	2" x 1" x 10"	A05	15-83	450	5.3-29.9
UC3110	3" x 1" x 10"	--	15-201	492	5.6-40.2
UC3156	3" x 1-1/2" x 6"	AB	5-320	161	2.4-13.1
UC3158	3" x 1-1/2" x 8"	A50	20-445	280	5.7-34.3
UC326	3" x 2" x 6"	AC	5-450	167	2.6-17.6
UC326H	3" x 2" x 6"	A10	5-450	167	2.6-17.6
UC328	3" x 2" x 8"	A60	20-445	280	5.7-34.3
UC3210	3" x 2" x 10"	A60	15-640	480	10-100
UC436L	4" x 3" x 6"	--	5-440	167	3-30
UC436	4" x 3" x 6"	--	20-670	190	11.7-26.3
UC438	4" x 3" x 8"	A70	20-825	290	6.9-55.1
UC4310H	4" x 3" x 10"	A70	75-1,050	118	4-27.1
UC6410	6" x 4" x 10"	A80	75-1,450	112	7.9-34.7

*Power at smallest to largest impeller diameter on 1.0 specific gravity