



MAGNATEX® MAXP Series Specifications

Maximum Flow	2000 GPM
Maximum Head	470 FT
Liquid Temperature	-150°F – 800°F
Maximum Power	up to 200 HP
Connections	150lb RF std. or optional 300lb RF ANSI Flanges
Bearing	SiC, SiC-X optional for upset or Dry-run Conditions
Maximum Working Pressure (standard)	285 psig
Impeller	Enclosed
Speeds	up to 3550 rpm
Magnets	Neodymium or Samarium Cobalt for High Temperature
Motor	NEMA or IEC Frame
Secondary Containment	Optional
Steam Jackets	Optional
External Flush	Optional
Re-circulated Flush & Vent	Optional
Vortex Breakers	Optional for Improved Solids Handling
Centerline mounted	Optional

Magnetic Drive Sealless ANSI Process Pumps

MAGNATEX® MAXP Series

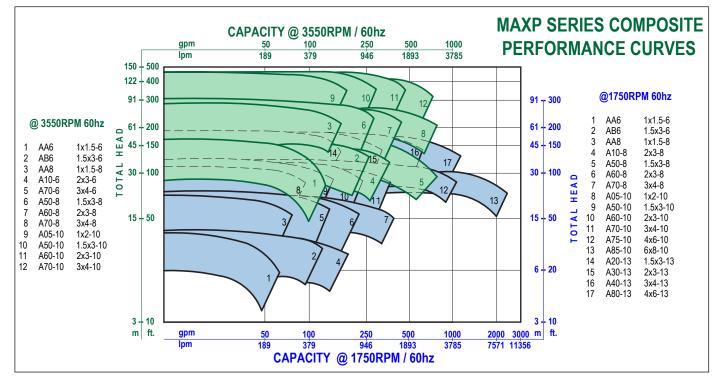
The MAXP Series of pumps has been designed to conform to ANSI B73.3 dimensional standards. The pumps are extremely rugged, which makes them ideal for rigorous duty in the chemical and petrochemical industries.

Magnatex MAXP pumps have the following design features:

- Straddle-mounted inner magnet system with bearings on both sides of the magnet—this design reduces shaft and bearing loads when compared to our competitors' overhung, cantilevered, inner magnet designs
- Slip-fit construction, which allows easy on-site maintenance with no special tools or fixtures required
- Large internal flow paths, which means the pumps can easily handle 1% solids @ 500µ and up to 8% solids @ 100µ. Optional baffle-plated rear casing enables enhanced solids handling capability. Optional proprietary self-cleaning strainer technology enables us to handle even higher solids percentages if necessary
- No expensive mechanical seals; eliminates costly shutdowns and repairs, which helps eliminate "Reportable Release" issues
- Safely handles toxic, noxious, corrosive or hightemperature liquids with increased safety to personnel and the environment
- Special high-temperature construction is available to handle up to 800°F
- Several dual containment systems are available that virtually eliminate any leakage to the environment when handling extremely hazardous chemicals

Materials of Construction:

- 316SS Alloy 20 Monel
- 304SS
 Alloy B & C
 Titanium



ANATOMY OF THE ULTIMATE MAGNETIC DRIVE PUMP

Anti-contact ribs prevent outer magnet from rubbing on the rear casing in the event of external ball bearing failure, to prevent breaching the primary containment barrier

Large internal radial clearance: 0.060" minimum, allows passage of a modest amount of solids in the rear casing area of the pump

> Rugged rear containment shell with Alloy C material between the inner and outer magnets provides high efficiency, greater component strength, enhanced corrosion resistance and positive hermetic sealing

Several optional secondary containment designs are available, if necessary

> Oil-lubricated bearings (easily adaptable to oil mist) or optional greased-for-life bearings provide extra long life because of the minimal load of the outer magnet - no axial loading

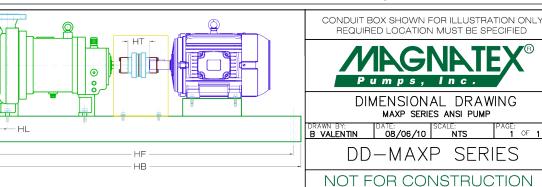
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RIGHT 2010 MAGNATEX PUMPS

Cooling fins and ports on bearing frame allow noncooled operation to 350°F. For higher temperatures optional cooling systems are available

Neodymium or optional Samarium Cobalt magnets for high-temperature operation provide synchronous drive (no slip)

Standard Instrumentation port for detection of primary containment leakage



External flush to rear casing of

the pump from a self-cleaning

strainer or compatible external

source allows handling liquids

with entrained solids

MAGNATEX MAXP SERIES ANSI BASEPLATE DIMENSIONS

NEMA	Baseplate	НА мах.	HB	HT	HD MAX.			HE	HF	HG MAX.	нн	HL	HP	
Frame	No.	TA WAX.			D=5.25 [133]	D=8.25 [210]	D=10 [254]	D=14.5 [368]	nE		IIG MAX.			111
184T	139	15 [381]	39 [991]	3.5 [89]	9 [229]				4.5 [114]	36.5 [927]	3.75 [95]	0.75 [19]	4.5 [114]	1.25 [32]
256T	148	18 [457]	48 [1219]	3.5 [89]	10.5 [267]				6 [152]	45.5 [1156]	4.13 [105]	0.75 [19]	4.5 [114]	1.25 [32]
326TS	153	21 [533]	53 [1346]	3.5 [89]	12.88 [327]				7.5 [191]	50.5 [1283]	4.75 [121]	0.75 [19]	4.5 [114]	1.25 [32]
184T	245	15 [381]	45 [1143]	3.5 [89]		12 [305]	13.75 [349]		4.5 [114]	42.5 [1080]	3.75 [95]	0.75 [19]	4.5 [114]	1.25 [32]
215T	252	18 [457]	52 [1321]	3.5 [89]		12.38 [314]	14.13 [359]		6 [152]	49.5 [1257]	4.13 [105]	0.75 [19]	4.5 [114]	1.25 [32]
286T	258	21 [533]	58 [1473]	3.5 [89]		13 [330]	14.75 [375]		7.5 [191]	55.5 [1410]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
365T	264	21 [533]	64 [1626]	3.5 [89]		13.88 [353]	14.75 [375]		7.5 [191]	61.5 [1562]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
405TS	268	26 [660]	68 [1727]	3.5 [89]		14.88 [378]	14.88 [378]		9.5 [241]	65.5 [1664]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
449TS	280	26 [660]	80 [2032]	3.5 [89]		15.88 [403]	15.88 [403]		9.5 [241]	77.5 [1969]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
286T	368	26 [660]	68 [1727]	5 [127]				19.25 [489]	9.5 [241]	65.5 [1664]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
405T	380	26 [660]	80 [2032]	5 [127]				19.25 [489]	9.5 [241]	77.5 [1096]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
449T	398	26 [660]	98 [2489]	5 [127]				19.25 [489]	9.5 [241]	95.5 [2426]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
	In inches [millimeters]													





Standard RTD well tap and vibration monitoring mounting point for predictive maintenance programs

Fully enclosed impeller with balance holes provides high efficiency and low thrust (no shims or adjustments required)

Inducers available for low NPSH applications

Standard SiC bearing system or optional SiC-X material for potential "upset" or dry running operation

Casing drain allows complete draining of the pump and rear casing

> Inner magnet is "straddle" mounted between bearings (no overhung load), allowing operation across the complete curve without shaft deflection

> > D

HG

HP

- HE

--- HE

ΗА

HC

Single confined gasket is the only "seal" in the pump