WARRENDER
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SEAL-LESS
ZERO (0)
EMISSIONS
PUMPS

Non-Metallic Seal-less
Mag-Drive Pumps

MAGDRIVE PUMPS™

SOLID PP & PVDF
Thermoplastic Pumps
Centrifugal, Turbine & Self-Priming

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CORROSION PROOF SEAL-LESS MAG-DRIVE PUMPS

Warrender Pumps - Mag-Drives Built to Survive Long After Others Fail

WMCH & WMT machined billet thermoplastic and fluoroplastic pump casings and components provide optimal resistance to corrosive chemicals.

Non-metallic materials are subjected to rates of swelling and permeation that challenges molded designs with thin wall construction. Glass reinforcement alters the chemical resistance, leading to permeation, degradation and “wicking”.

This exclusive manufacturing method has led to the industry’s most comprehensive range of non-metallic mag-drive pumps.

ZERO LEAKAGE - ZERO CORROSION

WMCH Thermoplastic Centrifugal

WMT Turbine Pump

The industry’s most comprehensive range of mag-drive pumps.

WARRENDER, LTD. specializes in highly engineered seal-less magnetically coupled process pumps. Industries worldwide have applied this extensive program to safely meet corrosive process requirements with Zero (0) emissions.

All WARRENDER, LTD. seal-less pumps are designed to comply with the EPA Clean Air Act governing “Hazardous Air Pollutants

For over 50 years, Warrender, Ltd. has solved the most challenging process applications with leading edge pump technologies.

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WMCH Series

Complete range of non-metallic mag-drive process pumps

Series

• WMCH	End Suction Centrifugal
• WMCH -SP	Centrifugal Self Primer
• WMT	Regenerative Turbine
• WMT-SP	Regenerative Turbine Self-Primer
• WMP	Rotary Vane

Materials of Consturction:

PP-Polypropylene or PVDF-Polyvinylidene Fluoride

Series WMCH

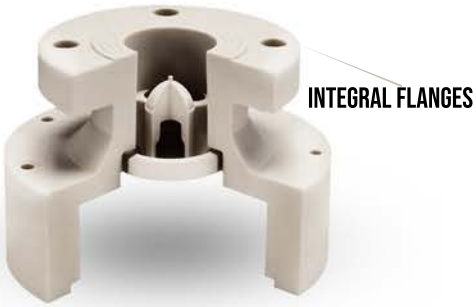
- Pump casings & internal components:
- Glass-Free Polypropylene (PP) or Polyvinylidene Fluoride (PVDF)
- Exclusive Heavy-Duty Rear Thrust Bearing
- Shaft & Casing Wear Ring: Silicon Carbide
- Internal Bearings: SIC or PTFE-C
- Casing O-Ring: EPDM, Viton or FEP

Options

- Externally flushed rear cavity for slurries
- Heavy duty rear thrust bearing
- Dual containment shell
- Self-priming design for top unloading

CNC Machined construction

WARRENDER non-metallic designs are uniquely constructed from *Simona® Polypropylene (PP) or Polyvinylidene Fluoride (PVDF). Rugged pump casings and impeller assemblies are machined from solid extruded bar and block material. CNC machined construction provides distinctive advantages over molded or lined configurations. Typical casing wall thicknesses for molded pumps are only 1/8” - 1/4”; failures often result from chemical attack, thermal expansion and pipe stress. Lined pumps have a mere .90” - .120” lining thickness and the added risk of casing failures caused by separation permeation or external corrosion. Solid thermoplastic pump casings feature wall thicknesses of 1/2” to 1-1/2” for optimal chemical resistance and durability.



* Technical specifications available upon request

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WMCH Series

Centrifugal Pumps

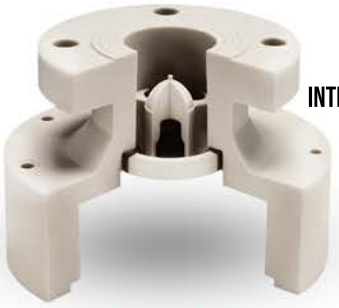
WMCH pumps are fabricated from SOLID extruded Simona® PP or PVDF thermoplastics to resist internal or external corrosion. Heavy walled, CNC machined construction provides resistance to permeation and migration of corrosive, and aggressive liquids. WMCH pumps avoid deformation and degradation, with lesser designs, even in the most severe applications.

Technical Features

Rear Cartridge

- Exclusive SOLID machined PP or PVDF casings and impeller components for maximum chemical resistance
- Robust casing wall thicknesses
- Solid thermoplastic casings withstand external corrosion
- Integral raised face flanges (no threaded adapters) for positive sealing and zero leakage
- Oversized, Casing wear rings & thrust bearings
- Modular impeller allows for varying hydraulic performances
- Compact, high torque magnetic coupling with reduced mass
- Zero leakage, magnetic coupling circumvents constant EPA monitoring
- Standardized NEMA or IEC motors
- Simplified maintenance, with registered fits, requires no special tools or settings

Commercial Benefits



INTEGRAL FLANGES

Solid Billet Machined Casing

- Eliminates costly and complex mechanical seal systems
- Avoidance of mechanical seals that cause production downtime
- Zero leakage, magnetic coupling circumvents constant EPA monitoring and potential fines from excessive emissions associated with mechanical seals
- Efficient hydraulic design minimizes power consumption
- Magnetic coupling prevents the introduction of unwanted air into the process for higher production yields
- Positive sealing with integral flanged ports eliminates the chance of emissions from plastic threads
- Simplified maintenance, with registered fits, requires no special tools or settings
- SOLID thermoplastic casings never corrode (internally or externally)
- Premium machined Simona® thermoplastics provide higher resistance to chemical and temperature degradation than molded or composite materials
- Standard NEMA motor frame allows for low cost, fast replacements in the field

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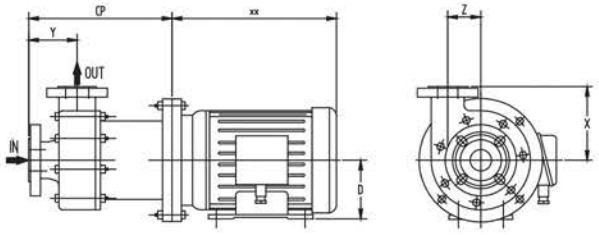
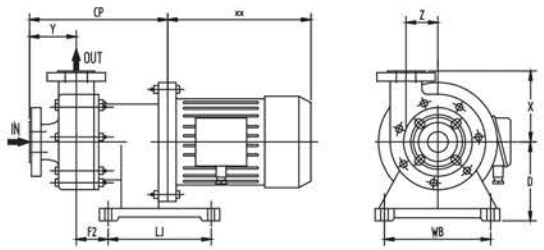
WMCH Dimensions & Specifications

WMCH with Foot Mounted Motor



WMCH with Pedestal Mounted Motor

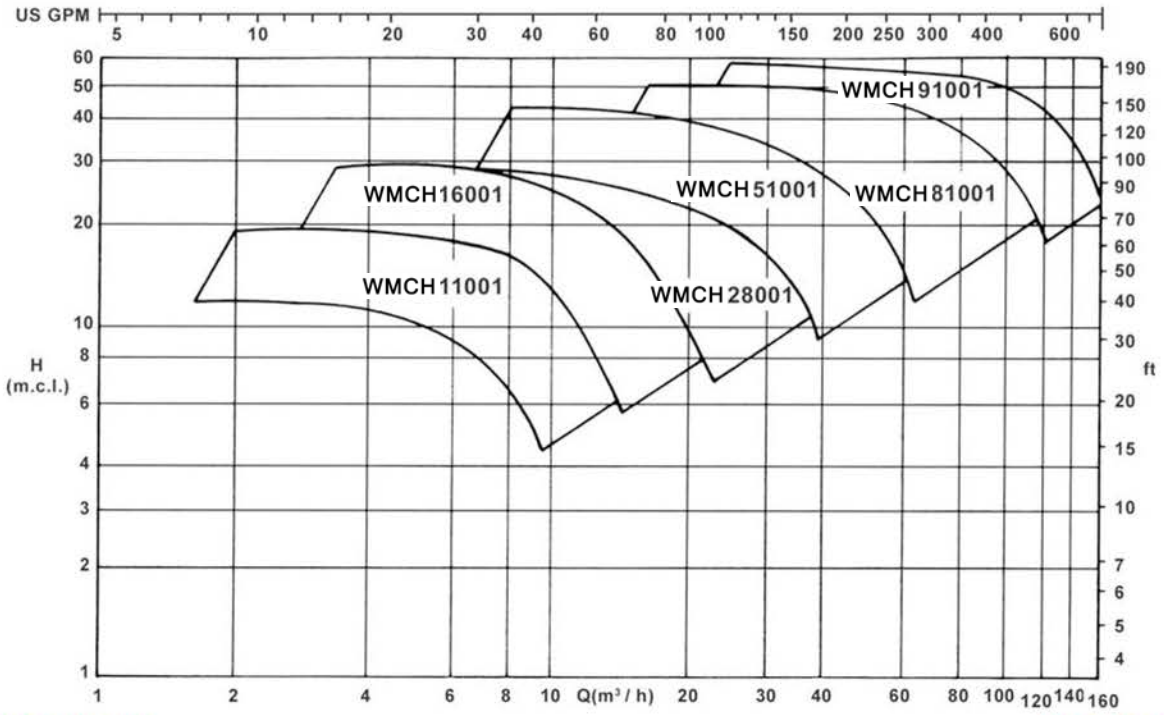


WMCH Dimensions (dimensions in inches)

MODEL NO.	IMPELLER	SUCTION	DISCHARGE	D	X	y	Z	CP	F2	LJ	WB
		FLANGE	FLANGE								
WMCH11001	4	1.5" 150# RF ANSI	1" 150# RF ANSI	3.5	5.04	2.99	2.09	9.25	N/A	N/A	N/A
WMCH16001	4.5	2" 150# RF ANSI	1.5" 150# RF ANSI	3.54	5.87	2.76	2.28	9.37	N/A	N/A	N/A
WMCH28001	4.5	2" 150# RF ANSI	1.5" 150# RF ANSI	3.5	5.87	3.31	2.48	10.03	N/A	N/A	N/A
WMCH51001	6	2.5" / 3" 150# RF ANSI	2" 150# RF ANSI	6.89	6.73	4.06	2.87	12.64	2.39	9.84	8.66
WMCH 81001	6.5	4" 150# RF ANSI	3" 150# RF ANSI	7.87	7.44	4.76	3.23	14.49	2.87	1.42	9.84
WMCH 91001	7	4" 150# RF ANSI	3" 150# RF ANSI	7.87	8.94	5.08	4.02	14.92	2.99	11.42	9.84

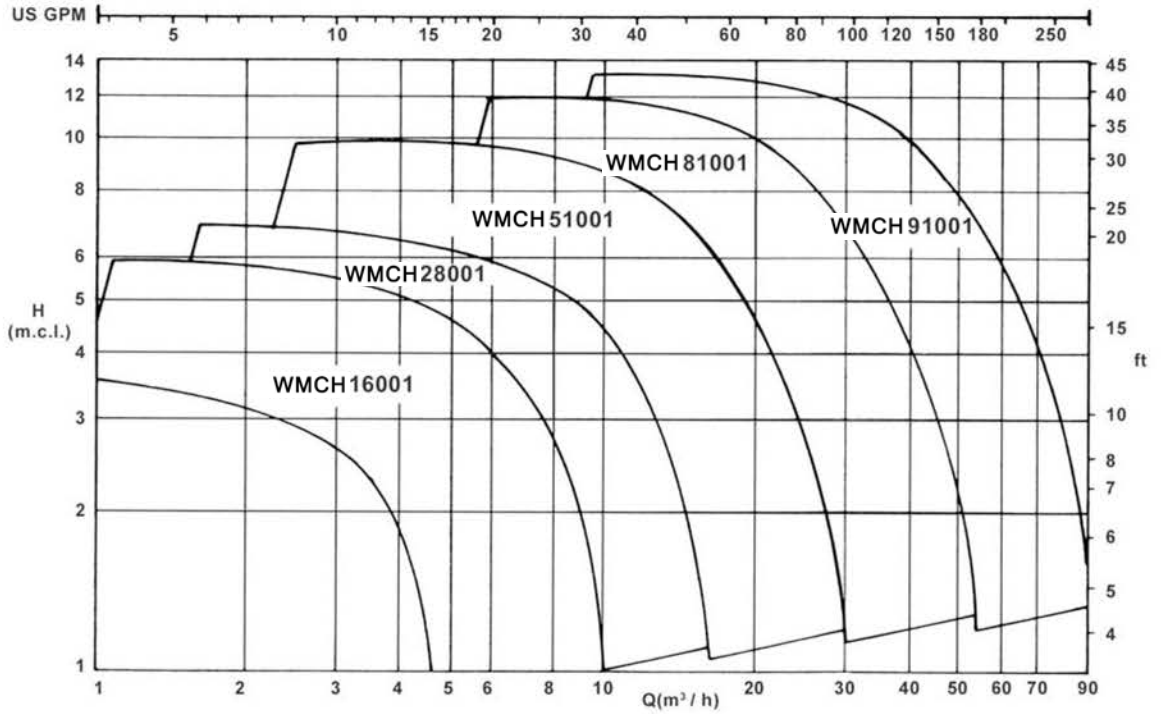
MODEL NO.	PORT SIZES	MAXFLOW-GPM	MAXTDH-FT	MATERIALS	MAX(PSIG)	MOTOR	PUMP FRAME	WT(LBS)
PP/ TEFC	SUCT/ DISCH	3500/1750 RPM	3500/1750 RPM	PUMP, O-RNG	STD/DUAL CF	(HP)	NEMA SIZE	
WMCH11001-P2T1	1.25" x 1" FNPT	50/ 25	65'/ 18'	PP, EPDM	110	1	56-C	9
WMCH11001-P2F1	1.5" x 1" FLANGE	50/ 25	65' / 18'	PP, EPDM	110	1	56-C	9
WMCH16001-P2T1	1.5" x 1.25" FNPT	75/ 40	90'/ 28'	PP, EPDM	110	2	143/5-TC	13
WMCH16001-P2T1	2" x 1.5" FLANGE	75/ 40	90'/ 28'	PP, EPDM	110	2	143/5-TC	13
WMCH28001-P2F1	2" x 1.5" FLANGE	120/ 70	85'/ 29'	PP, EPDM	110/ 150	3 or5	182/4-TC	60
WMCH51001-P2F1	2.5" / 3" x 2" FLANGE	180/ 100	140'/ 38'	PP, EPDM	110/ 150	5 or 7.5	182/4-TC, 213/5-TC	94
WMCH81001-P2F1	4" x 3" FLANGE	400/ 200	160'/ 40'	PP, EPDM	110/ 150	15 or20	213/5-TC, 254/6-TC	101
WMCH91001-P2F1	4" x 3" FLANGE	550/ 250	180'/ 44'	PP, EPDM	110/ 150	25 or30	284/6-TSC	104
MODEL NO.	PORT SIZES	MAXFLOW-GPM	MAXTDH-FT	MATERIALS	MAX(PSIG)	MOTOR	PUMP FRAME	WT(LBS)
PVDF/ TEFC	SUCT/ DISCH	3500/1750 RPM	3500/1750 RPM	PUMP, O-RNG	STD/DUAL CF	(HP)	NEMA SIZE	
WMCH11001-V2T1	1.25" x 1" FNPT	50/ 25	65'/ 18'	PVDF, VITON	110	1	56-C	10
WMCH11001-V2F1	1.5" x 1" FLANGE	50/ 25	65'/ 18'	PVDF, VITON	110	1	56-C	11
WMCH16001-V2T1	1.5" x 1.25" FNPT	75/ 40	90'/ 28'	PVDF, VITON	110	2	143/5-TC	15
WMCH16001-V2F1	2" x 1.5" FLANGE	75/ 40	90'/ 28'	PVDF, VITON	110	2	143/5-TC	16
WMCH28001-V2F1	2" x 1.5" FLANGE	120/ 70	85'/ 29'	PVDF, VITON	110/ 150	3 or5	182/4-TC	63
WMCH51001-V2F1	2.5" / 3" x 2" FLANGE	180/ 100	140'/ 38'	PVDF, VITON	110/ 150	5 or 7.5	182/4-TC, 213/5-TC	101
WMCH81001-V2F1	4" x 3" FLANGE	400/ 200	160'/ 40'	PVDF, VITON	110/ 150	15 or20	213/5-TC, 254/6-TC	109
WMCH91001-V2F1	4" x 3" FLANGE	550/ 250	180'/ 44'	PVDF, VITON	110/ 150	25 or30	284/6-TSC	112

3500 RPM (60 Hz)



1750 RPM (60 Hz)

WMCH Series



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WMCH Series

Internal Magnet
Encapsulated, high torque rare-earth magnets provide synchronous performance.

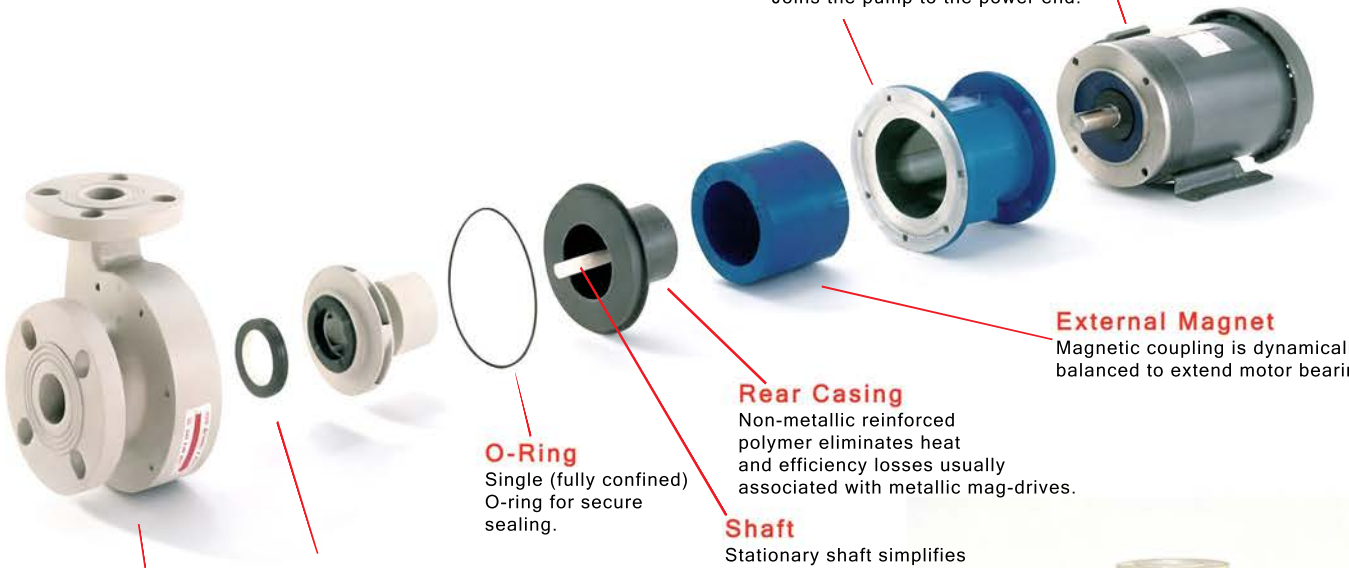
Sleeve Bearings
Two-piece design available in SIC or PTFE-C to suit application.

Impeller Thrust Bearing
Oversized to accommodate residual axial thrust loads.

Impeller
Modular to allow interchangeability with impeller & magnet.

Driver
Standardized, compact close-coupled motor.

Bracket
Joins the pump to the power end.



External Magnet
Magnetic coupling is dynamically balanced to extend motor bearing life.

Rear Casing
Non-metallic reinforced polymer eliminates heat and efficiency losses usually associated with metallic mag-drives.

O-Ring
Single (fully confined) O-ring for secure sealing.

Shaft
Stationary shaft simplifies the design and is made from pure silicon carbide.

Thrust Bearing
Provides stable, oversized axial thrust surface for impeller assembly.

Casing
Machined from solid billet PP or PVDF with integral flanges for proper sealing.

Self-Priming Model WMCSP offers the same benefits with the addition of a self-contained, self-priming pump casing. WMCSP pumps provide smooth, continuous leak proof operation where lap unloading is required.

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WMC-SP Series

Centrifugal Self-Primer Pumps

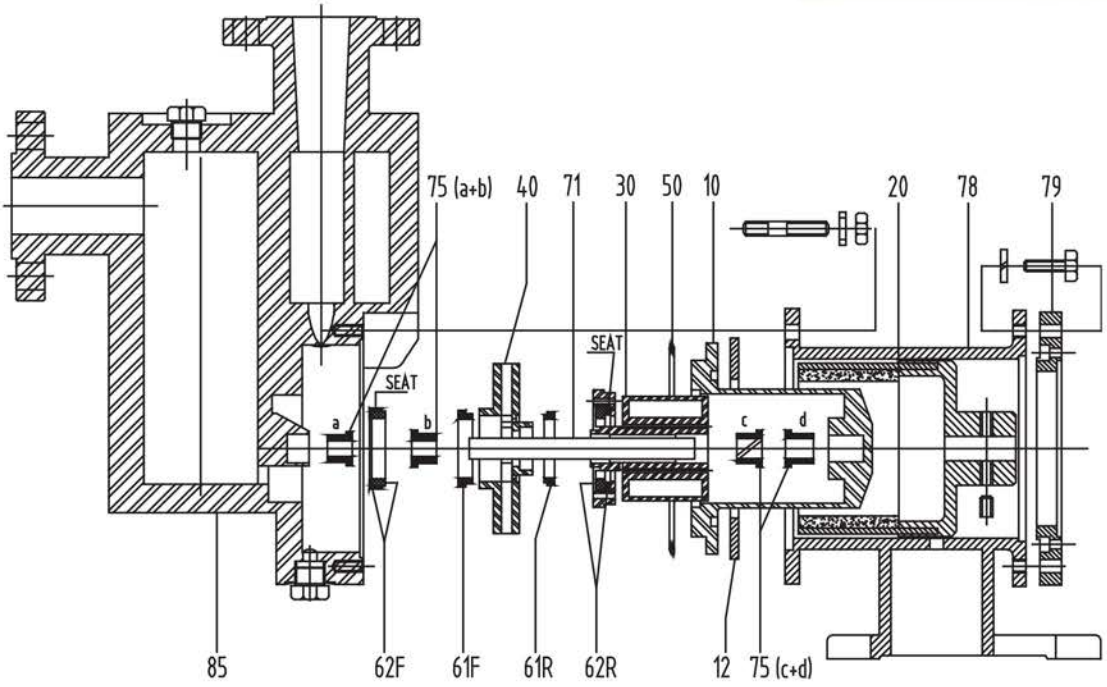
The same basic features of WMCH pumps apply to the WMC-SP Series design with the addition of a self-contained, self-priming pump casing. WMC-SP pumps provide smooth continuous leak-proof operation where top unloading is specified.

Materials of Construction

- Pump Casing & Internal Components: Polypropylene or PVDF
- Shaft & Casing Wear Ring: Silicon Carbide or PTFE-C
- Internal Bearings: Silicon Carbide or PTFE-C
- Casing O-Ring: EPDM, Viton or FEP

Performances

- Flows to 250 GPM (60 m3/h)
- Heads to 130 FT (35 m)
- System pressures to 110 PSIG (8 bar)
- Maximum Temperatures to: 230 °F (110°C)



PARTS LIST	
10	Rear Casing
20	External Magnet
30	Internal Magnet
40	Impeller
50	O-ring
61F	PTFEC Front Thrust Brg.
61R	PTFEC Rear Thrust Brg.
62F	CERAMIC Front Thrust Brg.
62R	CERAMIC Rear Thrust Brg.
71	CERAMIC shaft / ring
75	PTFEC Bearings (4)
80	Kit Spares
85	Pump Head
88	Rear Wet End (kit + rear casing)
90	Wet End
78	Bracket

NOTE: bearings and other wearing parts are shown in black.

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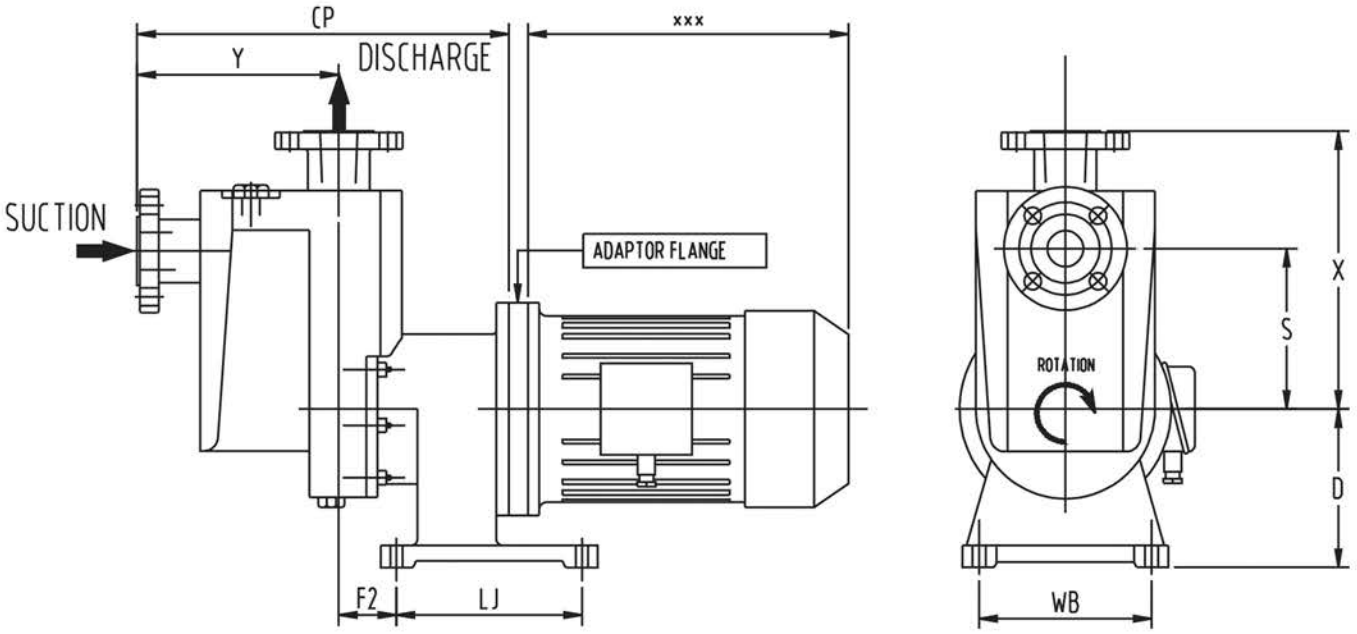
WMCSP Dimensions & Specifications



WMCSP Dimensions (Dimensions in Inches)

MODEL NO.	IMPELLER	SUCTION FLANGE	DISCHARGE FLANGE	D	X	y	s	CP	F2	LJ	WB
WMC-SP 27501	4.75"	1.5" 150# RF ANSI	1.5" 150# RF ANSI	5.35	12	8.43	6.69	15.667	2.6	7.6	6.1
WMC-SP 50501	5.625"	2" 150# RF ANSI	2" 150# RF ANSI	6.89	14.88	10.59	9.17	19.177	2.32	9.84	8.66
WMC-SP 80501	6.375"	3" 150# RF ANSI	3" 150# RF ANSI	7.87	14.72	12.83	9.94	20.822	2.87	11.42	9.84

WMCSP Specifications (Dimensions in Inches)

MODEL NO. PP/TEFC	PORT SIZES SUCT /DISCH	PERFORMANCES GPM / TDH (MAX)	MATERIALS PUMP, O-RING	MAX(PSIG) STD/DUAL CF	MAX TEMP (DEG F)	POWER (HP)	PUMP FRAME NEMASIZE	WT(LBS) PUMP END
WMSCP 27501-P2F1	1.5" x 1.5" FLANGE	80 / 80'	PP, EPDM	110/ 150	140	3 or 5	182/4-TC	85
WMSCP 50501-P2F1	2" x 2" FLANGE	140 / 105'	PP, EPDM	110 / 150	140	5 or7.5	182/4-TC, 213/5TC	115
WMSCP 80501-P2F1	3" x 3" FLANGE	250 / 120'	PP, EPDM	110/ 150	140	10 or 15	213/5-TC	125
WMSCP 27501-F2F1	1.5" x 1.5" FLANGE	80 / 80'	PP/PVDF, EPDM	110/ 150	180	3 or 5	182/4-TC	85
WMSCP 50501-F2F1	2" x 2" FLANGE	140 / 105'	PP/PVDF, EPDM	110 / 150	180	5 or7.5	182/4-TC, 213/5TC	115
WMSCP 80501-F2F1	3" x 3" FLANGE	250 / 120'	PP/PVDF, EPDM	110/ 150	180	10 or 15	213/5-TC	125

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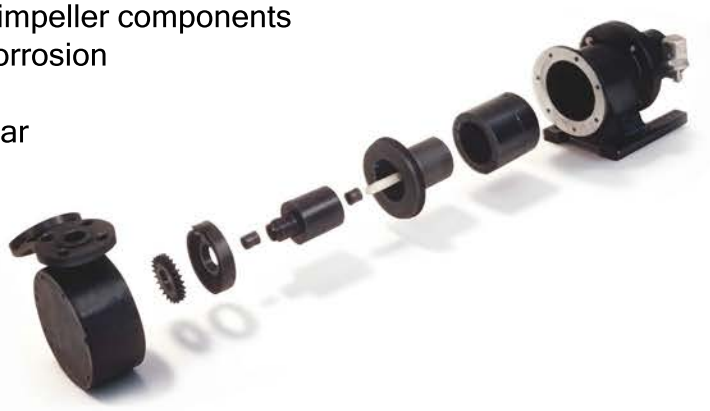
WMT Series

Regenerative Turbine Pumps

Ideally suited to low flow applications, WMT regenerative turbine pumps avoid oversized centrifugal designs, that require flow by-passing and excessive horsepower. WMT non-metallic turbine designs have excellent chemical resistance and extremely low wear characteristics. Variation in head calculations have minimal effect on the flow of a turbine pump. Also, turbine pumps can be throttled to a required duty point without by-passing.

Features

- Exclusive solid machined PP or PVDF casings and impeller components
- Heavy casing wall thicknesses withstand external corrosion
- Oversized, silicon carbide shafts
- Self-balancing impeller eliminates thrust bearing wear
- Handles up to 20% entrained gas, resists cavitation
- Separate impeller minimizes maintenance costs
- Direct starting, standard NEMA motors



Materials of Construction

- Pump Casings & Internal Components: Glass-Free PP or PVDF
- Casing O-ring: EPDM, Viton or FEP
- Internal Bearings: PTFE-C
- Shaft: Silicon Carbide

MT pedestal pump

Performance

- Flows to 60 GPM (14 m3/h)
- Heads to 180 FT (50 m)
- System pressures to 110 PSIG (8 bar)
- Temperatures to: 230°F (110°C)

Options

- Dual containment shell

MT self-balancing impellers eliminale axial thrust loads.

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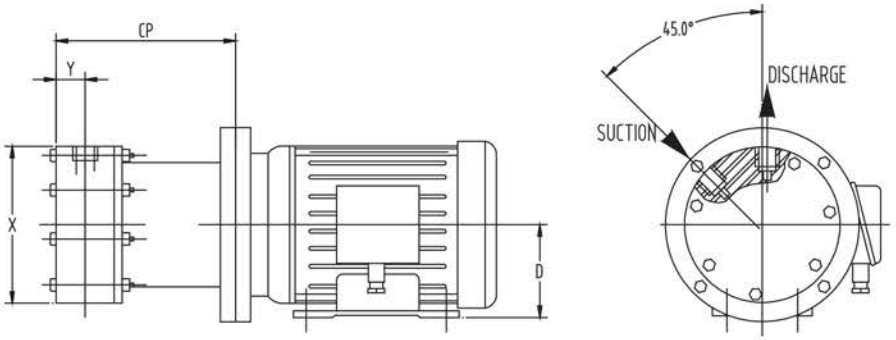
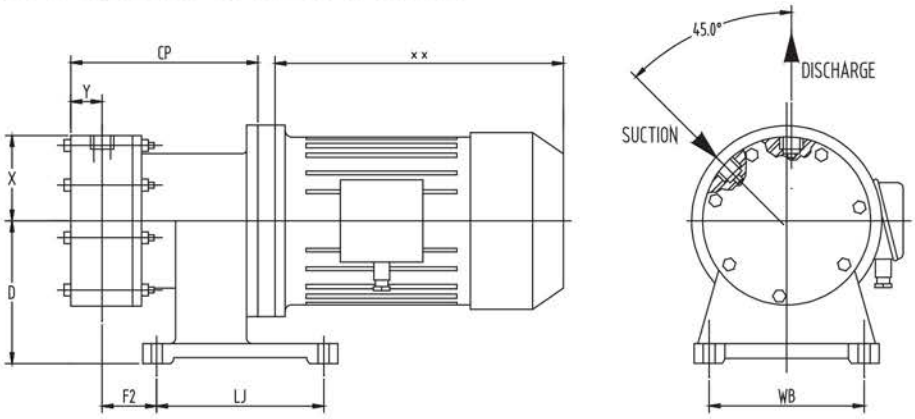
WMT Dimensions

WMT with Foot Mounted Motor



WMT with Pedestal Mounted Motor

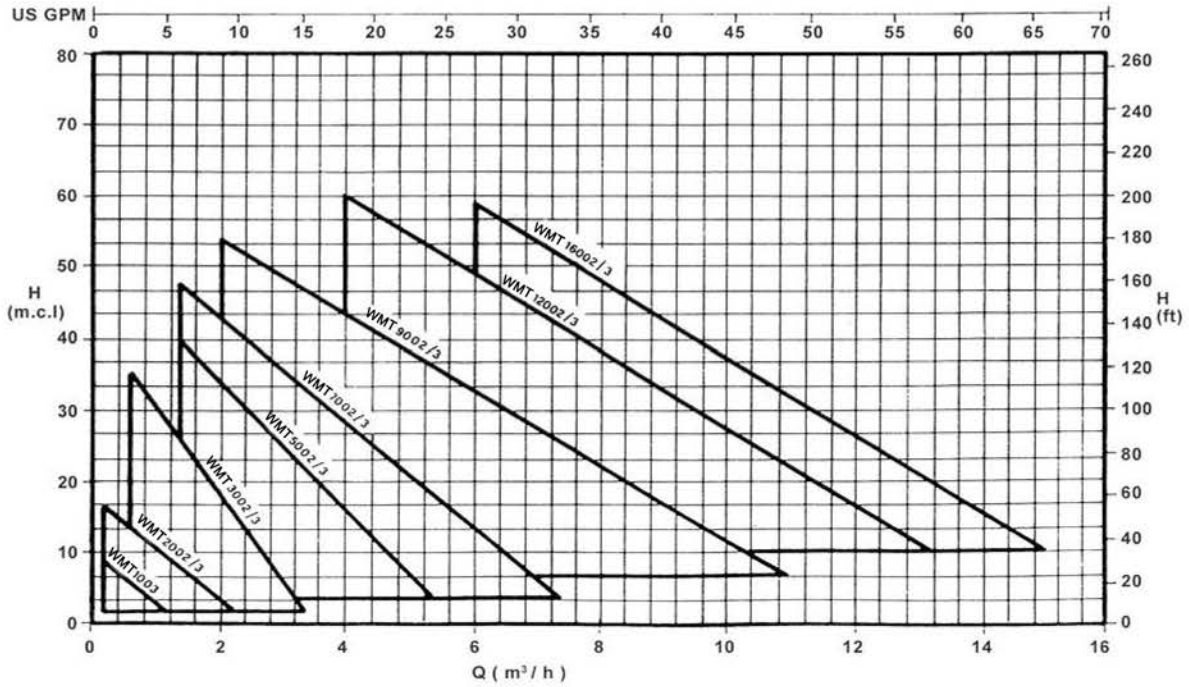


MODEL NO.	SUCTION		DISCHARGE		D	X	y	CP	F2	LJ	WB
	NPT	FLANGE	NPT	FLANGE							
WMT3003	3/4"	3/4" 150# RF ANSI	3/4"	3/4" 150# RF ANSI	3.50	5.51	1.22	7.60	N/A	N/A	N/A
WMT5002	1"	1" 150# RF ANSI	1"	1" 150# RF ANSI	3.50	6.30	1.42	8.23	N/A	N/A	N/A
WMT5003	1"	1" 150# RF ANSI	1"	1" 150# RF ANSI	3.50	6.30	1.42	8.23	N/A	N/A	N/A
WMT7002	1"	1" 150# RF ANSI	1"	1" 150# RF ANSI	3.50	6.30	1.42	9.06	N/A	N/A	N/A
WMT7003	1"	1" 150# RF ANSI	1"	1" 150# RF ANSI	3.50	7.48	1.57	9.21	N/A	N/A	N/A
WMT9002	1"	1" 150# RF ANSI	1"	1" 150# RF ANSI	3.50	7.48	1.57	9.21	N/A	N/A	N/A
WMT9003	1"	1" 150# RF ANSI	1"	1" 150# RF ANSI	5.35	7.48	1.57	9.72	2.87	7.59	4.70
WMT16002	1.25"	1.25" 150# RF ANSI	1.25"	1.25" 150# RF ANSI	7.87	9.82	1.73	9.65	2.80	11.40	9.82
WMT16003	1.25"	1/25" 150# RF ANSI	1.25"	1.25" 150# RF ANSI	7.87	9.82	1.73	9.65	2.80	11.40	9.82

WMT Specifications

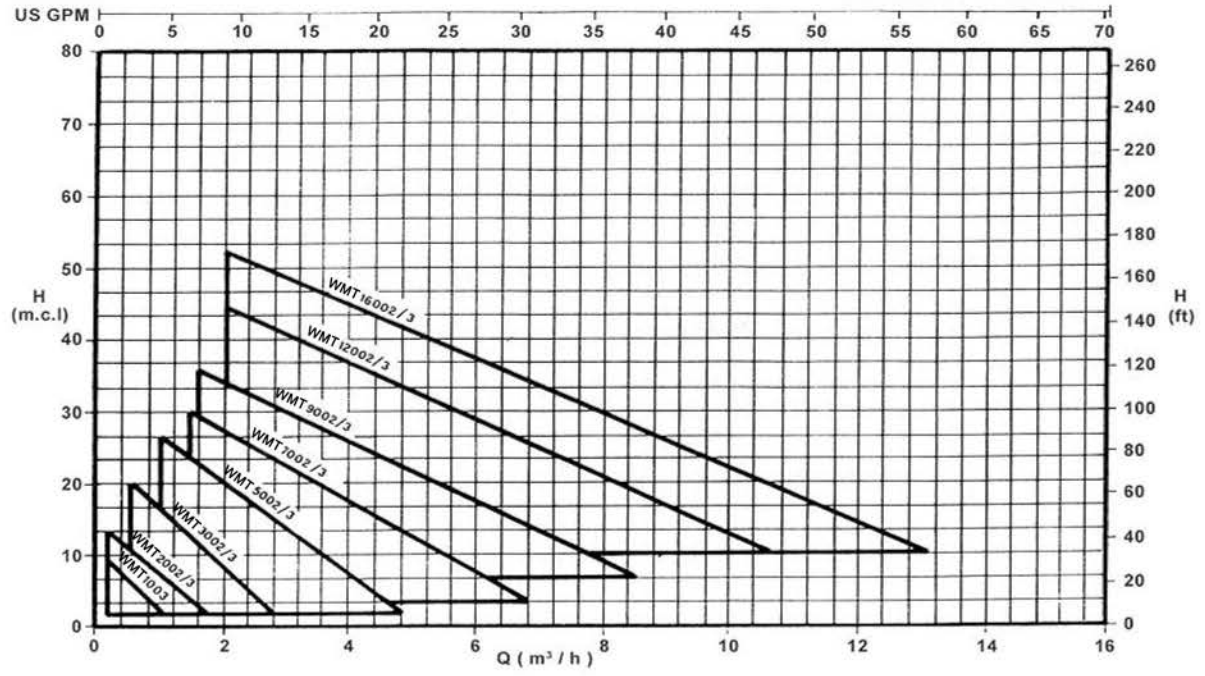
MODEL NO. PP /TEFC	PORT SIZES SUCT /DISCH	PERFORMANCES GPMrTDH **(MAX)**	MATERIALS PUMP, O-RING	MAX(PSIG) STD/DUAL CF	MAXTEMP(F) PP/PVDF RWE	POWER (HP)	PUMP FRAME TYPE	WT(LBS) PUMP END
WMT3003-P2T1	3/4" x 3/4" FNPT	15/ 110'	PP, EPDM	110	140/ 180	3/4 or 1 HP	56-C	8
WMT3003-P2F1	3/4" x 3/4" FLANGE	15/ 110'	PP, EPDM	110	140/ 180	3/4 or 1 HP	56-C	9
WMT5002-P2T1	1" x 1" FNPT	221112'	PP, EPDM	110	140/ 180	1 or 1-1/2 HP	56-C	8
WMT5002-P2F1	1" x 1" FLANGE	221112'	PP, EPDM	110	140/ 180	1 orl-1/2 HP	56-C	9
WMT5003-P2T1	1" x 1" FNPT	25/ 130'	PP, EPDM	110	140/ 180	1-1/2orHP	143/5-TC	11
WMT5003-P2F1	1" x 1" FLANGE	251130'	PP, EPDM	110	1401180	1-1/2orHP	143/5-TC	12
WMT7002-P2T1	1" x 1" FNPT	30/ 125'	PP, EPDM	110	140/180	2or3 HP	143/5-TC	11
WMT7002-P2F1	1" x 1" FLANGE	30/ 125'	PP, EPDM	110	140/ 180	2or3 HP	143/5-TC	12
WMT7003-P2T1	1" x 1" FNPT	31 / 160'	PP, EPDM	110/150	140/ 180	3or5 HP	182/4-TC	61
WMT7003-P2F1	1" x 1" FLANGE	31 / 160'	PP, EPDM	110/150	140/ 180	3or5 HP	182/4-TC	62
WMT9002-P2T1	1" x 1" FNPT	45/ 160'	PP, EPDM	110/150	140/180	5or7-1/2 HP	182/4-TC	61
WMT9002-P2F1	1" x 1" FLANGE	45/ 160'	PP, EPDM	110/150	1401180	5or7-1/2 HP	182/4-TC	62
WMT16002-P2T1	1.25" x 1.25" FNPT	60/ 180'	PP, EPDM	110/150	140/ 180	10or15HP	213/5, 254/6-TC	93
WMT16002-P2F1	1.25" x 1.25" FLANGE	60/ 180'	PP, EPDM	110/150	140/ 180	10or15HP	213/5, 254/6-TC	94
MODEL NO. PVDF /TEFC	PORT SIZES SUCT/DISCH	PERFORMANCES GPMrTDH **(MAX)**	MATERIALS PUMP, O-RING	MAX(PSIG) STD/DUAL CF	MAX TEMP (F) PVDF	POWER (HP)	PUMP FRAME SIZE	WT(LBS) PUMP END
WMT2002-V1T1	1/2" x 1/2" FNPT	9/ 37'	PVDF, VITON	110	180	1/3HP	A-63	12w/motor
WMT2002-V1Fl	1/2" x 1/2" FLANGE	9/ 37'	PVDF, VITON	110	180	1/3HP	A-63	12w/motor
WMT2003-V1T1	1/2" x 1/2" FNPT	9/ 47'	PVDF, VITON	110	180	1/3 or 1/2 HP	56-C	9
WMT2003-V1Fl	1/2" x 1/2" FLANGE	9/47'	PVDF, VITON	110	180	1/3 or 1/2 HP	56-C	10
WMT3002-V1T1	3/4" x 3/4" FNPT	13/60'	PVDF, VITON	110	180	1/2HP	56-C	9
WMT3002-V1Fl	3/4" x 3/4" FLANGE	13/60'	PVDF, VITON	110	180	1/2HP	56-C	10
WMT3003-V2T1	3/4" x 3/4" FNPT	15/ 110'	PVDF, VITON	110	180	3/4 or 1 HP	56-C	9
WMT3003-V2F1	3/4" x 3/4" FLANGE	151110'	PVDF, VITON	110	180	3/4 or 1 HP	56-C	10
WMT5002-V2T1	1" x 1" FNPT	22/ 112'	PVDF, VITON	110	180	1 orl-1/2 HP	56-C	9
WMT5002-V2F1	1" x 1" FLANGE	22/ 112'	PVDF, VITON	110	180	1 orl-1/2 HP	56-C	10
WMT5003-V2T1	1" x 1" FNPT	25/ 130'	PVDF, VITON	110	180	1-1/2orHP	143/5-TC	12
WMT5003-V2F1	1" x 1" FLANGE	25/ 130'	PVDF, VITON	110	180	1-1/2orHP	143/5-TC	13
WMT7002-V2T1	1" x 1" FNPT	30/ 125'	PVDF, VITON	110	180	2or3 HP	143/5-TC	12
WMT7002-V2F1	1" x 1" FLANGE	30/ 125'	PVDF, VITON	110	180	2or3 HP	143/5-TC	13
WMT7003-V2T1	1" x 1" FNPT	31 / 160'	PVDF, VITON	110/150	180	3or5 HP	182/4-TC	66
WMT7003-V2F1	1" x 1" FLANGE	31 / 160'	PVDF, VITON	110/150	180	3or5 HP	182/4-TC	68
WMT9002-V2T1	1" x 1" FNPT	45/ 160'	PVDF, VITON	110/150	180	5or7-1/2 HP	182/4-TC	66
WMT9002-V2F1	1" x 1" FLANGE	45/ 160'	PVDF, VITON	110/150	180	5or7-1/2 HP	182/4-TC	68
WMT16002-V2T1	1.25" x 1.25" FNPT	60/ 180'	PVDF, VITON	110/150	180	10or15HP	213/5, 254/6-TC	100
WMT16002-V2F1	1.25" x 1.25" FLANGE	60/ 180'	PVDF, VITON	110/150	180	10or15HP	213/5, 254/6-TC	102

3500 RPM (60 Hz)



2900 RPM (50 Hz)

WMT Series



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WMT Series

Stationary Shaft Design for WMT Models 7003 or larger

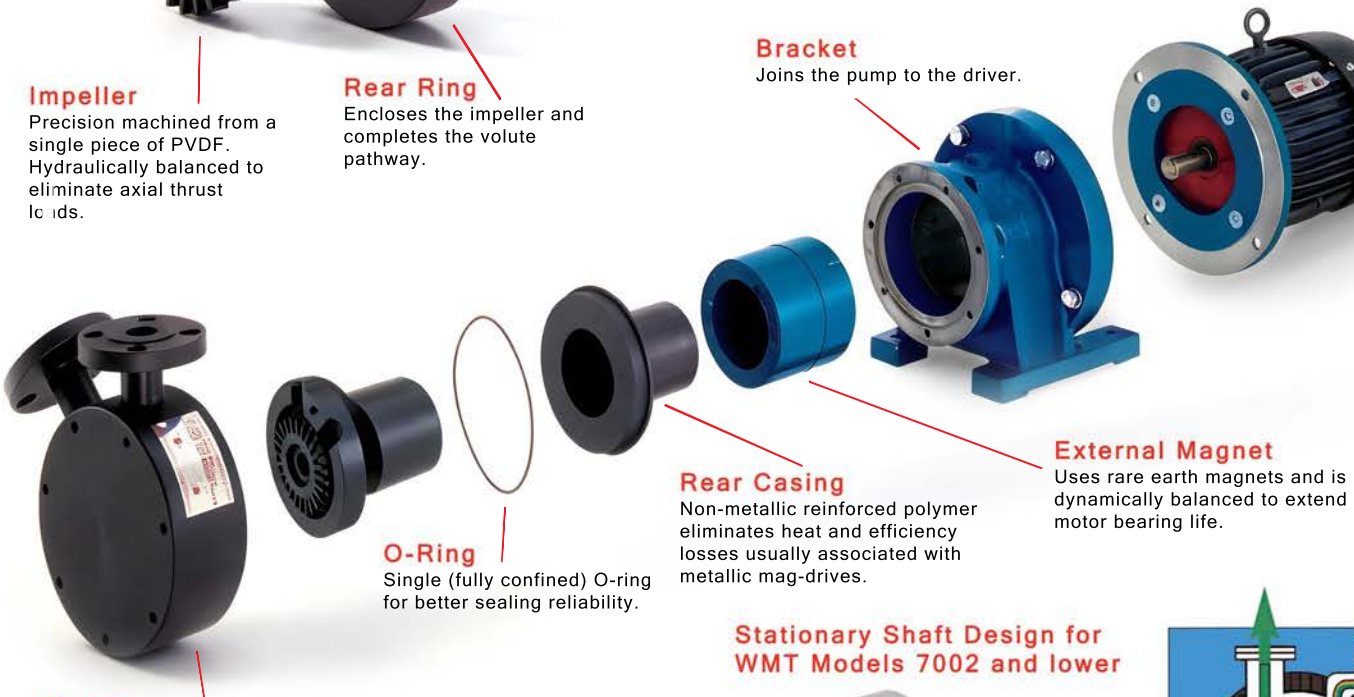
Shaft
Made from Silicon Carbide.

Impeller
Precision machined from a single piece of PVDF. Hydraulically balanced to eliminate axial thrust loads.

Rear Ring
Encloses the impeller and completes the volute pathway.

Driver
Standard motor is utilized for simple close coupled mounting.

Bracket
Joins the pump to the driver.



External Magnet
Uses rare earth magnets and is dynamically balanced to extend motor bearing life.

Rear Casing
Non-metallic reinforced polymer eliminates heat and efficiency losses usually associated with metallic mag-drives.

O-Ring
Single (fully confined) O-ring for better sealing reliability.

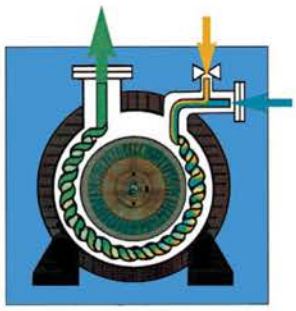
Casing
Machined from solid block PP or PVDF with optional raised face flanges for superior performance.

Stationary Shaft Design for WMT Models 7002 and lower

Internal Magnet Assembly & Shaft
Fully encapsulated, rare earth magnets have exceptional torque capability to provide slip-free synchronized performance. The 2 piece shaft is made from 99.7% pure alumina (ceramic).

Impeller
Precision machined from a single piece of PVDF. Hydraulically balanced to eliminates axial thrust loads.

Rear Ring
Encloses the impeller and completes the volute pathway.



Using a Regenerative Turbine as a mixer
Feed two different liquids (or a liquid and gas) into the suction side of the pump. the rotary impeller motion quickly and efficiently mixes the two substances together. The turbine's strong stirring capabilities eliminate the need to use a static mixer or diffusion pipe.

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WMT-SP Series

Regenerative Turbine Self-Primer Pumps

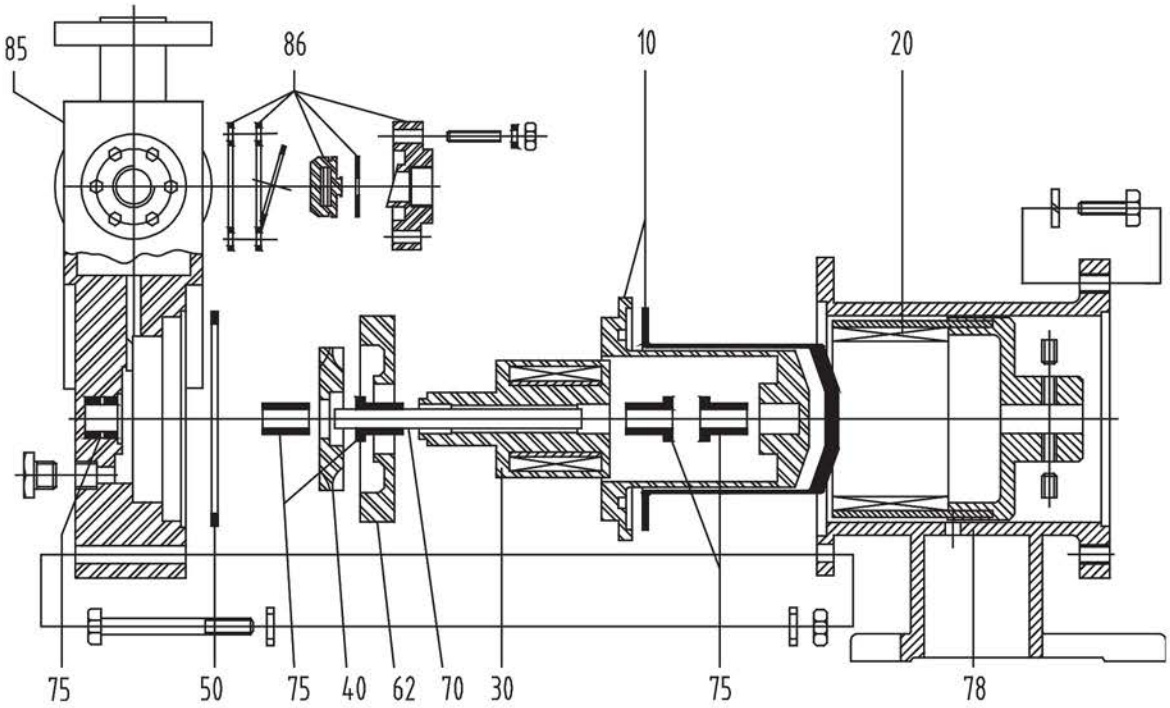
The same basic features of WMT pumps apply to the WMT-SP pumps provide smooth continuous leak-proof operation where top unloading is required.

Performances

- Flows to 60 GPM (14 m^3/h)
- Heads to 180 FT (50 m)
- System pressures to 110 PSIG (8 bar)
- Temperatures to: 230°F (110°C)

Options

- Dual containment shell



PARTS LIST	
10	Rear Casing
20	External Magnet
30	Internal Magnet
40	Impeller
50	O-ring
62	Rear Ring
70	Shaft
75	Bearings
78	Bracket
85	Pump Head
86	Check Valve + Gasket set
88	Rear Wet End (kit + rear casing)
90	Wet End

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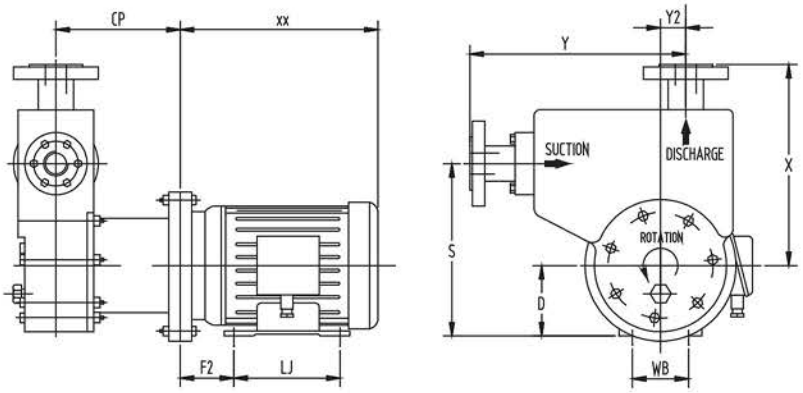
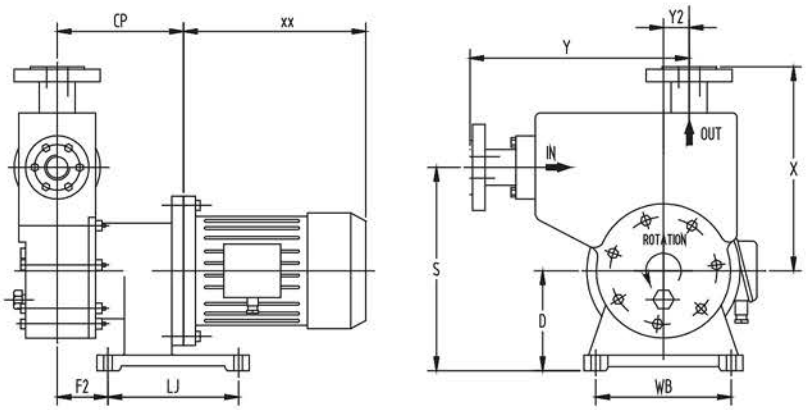
WMT-SP Dimensions & Specifications

WMTSP with Foot Mounted Motor



WMTSP with Pedestal Mounted Motor

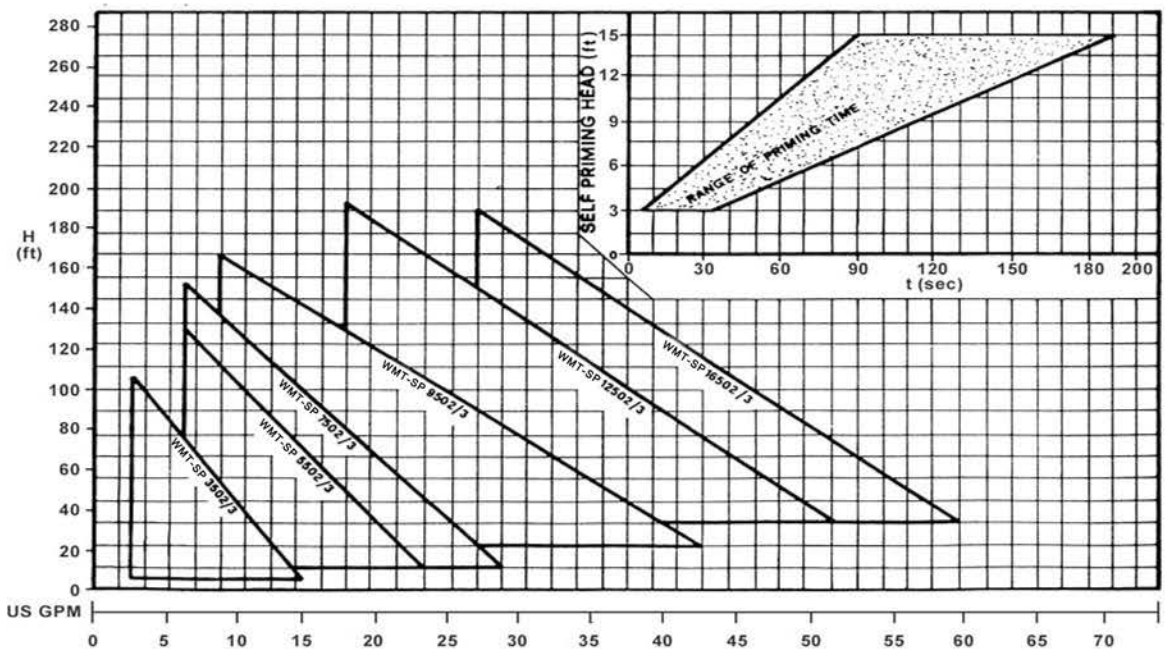


MODEL NO.	SUCTION		DISCHARGE		D	S	X	y	Y2	CP	F2	LJ	WB
	NPT	FLANGE	NPT	FLANGE									
WMTSP 3503	*314"*		*314"*		2.79	7.04	6.69	6.77	0.66	5.66	NIA	NIA	NIA
WMTSP 5503	1"		1"		3.14	7.40	6.69	6.77	0.66	6.18	NIA	NIA	NIA
WMTSP 7503	1"		1"		5.35	11.33	8.93	8.22	0.25	7.51	2.87	7.59	6.10
WMTSP 9502	1"		1"		5.35	11.33	8.93	8.22	0.25	7.51	2.87	7.59	6.10
WMTSP 16502	1-114"		1-114"		7.87	14.56	10.23	10.03	0.86	9.64	2.79	11.41	9.84
WMTSP 2503		112" 150# RF ANSI		112" 150# RF ANSI	2.50	6.75	8.25	7.87	0.62	4.75	NIA	NIA	NIA
WMTSP 3503		*314"* 150# RF ANSI		*314"* 150# RF ANSI	2.79	7.04	8.50	8.58	0.66	5.66	NIA	NIA	NIA
WMTSP 5503		1" 150# RF ANSI		1" 150# RF ANSI	3.14	7.40	8.50	8.58	0.66	6.18	NIA	NIA	NIA
WMTSP 7503		1" 150# RF ANSI		1" 150# RF ANSI	5.35	11.33	10.74	10.03	0.25	7.51	2.87	7.59	6.10
WMTSP 9502		1" 150# RF ANSI		1" 150# RF ANSI	5.35	11.33	10.74	10.03	0.25	7.51	2.87	7.59	6.10
WMTSP 16502		1.25" 150# RF ANSI		1.25" 150# RF ANSI	7.87	14.56	12.40	12.12	0.86	9.64	2.79	11.41	9.84

MODEL NO. PP / TEFC	PORT SIZES SUCT / DISCH	PERFORMANCES GPM/TDH (MAX)	MATERIALS PUMP, O-RING	MAX (PSIG) STD/DUAL CF	MAX TEMP (F) PP/PVDF RWE	POWER (HP)	PUMP FRAME NEMA SIZE	WT (LBS.) PUMP END
WMTSP2503-P1T1	1/2" x 1/2" FNPT	9 / 47'	PP, EPDM	110	140 / 180	1/3 or 1/2 HP	56-C	10
WMTSP2503-P1F1	1/2" x 1/2" FLANGE	9 / 47'	PP/ EPDM	110	140 / 180	1/3 or 1/2 HP	56-C	10
WMTSP3503-P2T1	3/4" x 3/4" FNPT	15 / 110'	PP/ EPDM	110	140 / 180	3/4 or 1 HP	56-C	10
WMTSP3503-P2F1	3/4" x 3/4" FLANGE	15 / 110'	PP/ EPDM	110	140 / 180	3/4 or 1 HP	56-C	11
WMTSP5503-P2T1	1" x 1" FNPT	25 / 130'	PP/ EPDM	110	140 / 180	1-1/2 or 2 HP	143/5-TC	13
WMTSP5503-P2F1	1" x 1" FLANGE	25 / 130'	PP/ EPDM	110	140 / 180	1-1/2 or 2 HP	143/5-TC	14
WMTSP7503-P2T1	1" x 1" FNPT	31 / 160'	PP/ EPDM	110 / 150	140 / 180	3 or 5 HP	182/4-TC	70
WMTSP7503-P2F1	1" x 1" FLANGE	31 / 160'	PP/ EPDM	110 / 150	140 / 180	3 or 5 HP	182/4-TC	70
WMTSP9502-P2T1	1" x 1" FNPT	45 / 160'	PP/ EPDM	110 / 150	140 / 180	5 or 7-1/2 HP	182/4-TC	70
WMTSP9502-P2F1	1" x 1" FLANGE	45 / 160'	PP/ EPDM	110 / 150	140 / 180	5 or 7-1/2 HP	182/4-TC	70
WMTSP16502-P2T1	1.25" x 1.25" FNPT	60 / 160'	PP/ EPDM	110 / 150	140 / 180	10 or 15 HP	213/5, 254/6-TC	105
WMTSP16502-P2F1	1.25" x 1.25" FLANGE	60 / 160'	PP/ EPDM	110 / 150	140 / 180	10 or 15 HP	213/5, 254/6-TC	105

MODEL NO. PVDF / TEFC	PORT SIZES SUCT / DISCH	PERFORMANCES GPM/TDH (MAX)	MATERIALS PUMP, O-RING	MAX (PSIG) STD/DUAL CF	MAX TEMP (F) PVDF	POWER (HP)	PUMP FRAME NEMA SIZE	WT (LBS) PUMP END
WMTSP2503-V1T1	1/2" x 1/2" FNPT	9 / 47'	PVDF, VITON	110	180	1/3 or 1/2 HP	56-C	14
WMTSP2503-V1F1	1/2" x 1/2" FLANGE	9 / 47'	PVDF/ VITON	110	180	1/3 or 1/2 HP	56-C	15
WMTSP3503-V2T1	3/4" x 3/4" FNPT	15 / 110'	PVDF/ VITON	110	180	3/4 or 1 HP	56-C	14
WMTSP3503-V2F1	3/4" x 3/4" FLANGE	15 / 110'	PVDF/ VITON	110	180	3/4 or 1 HP	56-C	15
WMTSP5503-V2T1	1" x 1" FNPT	25 / 130'	PVDF/ VITON	110	180	1-1/2 or 2 HP	143/5-TC	17
WMTSP5503-V2F1	1" x 1" FLANGE	25 / 130'	PVDF/ VITON	110	180	1-1/2 or 2 HP	143/5-TC	18
WMTSP7503-V2T1	1" x 1" FNPT	31 / 160'	PVDF/ VITON	110 / 150	180	3 or 5 HP	182/4-TC	76
WMTSP7503-V2F1	1" x 1" FLANGE	31 / 160'	PVDF/ VITON	110 / 150	180	3 or 5 HP	182/4-TC	77
WMTSP9502-V2T1	1" x 1" FNPT	45 / 160'	PVDF/ VITON	110 / 150	180	5 or 7-1/2 HP	182/4-TC	76
WMTSP9502-V2F1	1" x 1" FLANGE	45 / 160'	PVDF/ VITON	110 / 150	180	5 or 7-1/2 HP	182/4-TC	77
WMTSP16502-V2T1	1" x 1" FNPT	60 / 160'	PVDF/ VITON	110 / 150	180	10 or 15 HP	213/5, 254/6-TC	121
WMTSP16502-V2F1	1" x 1" FLANGE	60 / 160'	PVDF/ VITON	110 / 150	180	10 or 15 HP	213/5, 254/6-TC	123
WMTSP16503-V2T1	1.25" x 1.25" FNPT	60 / 160'	PVDF/ VITON	110 / 150	180	10 or 15 HP	213/5, 254/6-TC	121
WMTSP16503-V2F1	1.25" x 1.25" FLANGE	60 / 160'	PVDF/ VITON	110 / 150	180	10 or 15 HP	213/5, 254/6-TC	123

3500 RPM (60 Hz)



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Data Sheet

WARRENDER SEAL-LESS MAG-DRIVE PUMP DATA SHEET

Application

When Needed:
☐Immediate ☐1 Week ☐1 Month ☐3-6 Months ☐Future

Date: _____
Distributor: _____
Location: _____
Contact: _____
Phone: _____
Fax: _____
Customer: _____
Location: _____
Quantity: _____ Item / Tag No.: _____
Fluid / Concentration: _____

	Design	Max.	Min.
Capacity (GPM)			
Suc. Press (PSIG)			
Dis. Press (PSIG)			
TDH (ft)			
Temp. (deg. °F)			
Spec. Gravity			
pH			
Viscosity (cPs)			
Vapor Press. (PSIA)			
Specific Heat			
Tank Volume (gal.)			
NPSH (ft)			
Suction Lift (ft)			

Suggested Pump Selection:

☐Centrifugal ☐Turbine ☐Self-Priming ☐Rotary Vane
Pump Model#:_____ Pump Material:_____

Current Pump

Manufacturer: _____
Model Number: _____
Impeller Dia: _____
Material: _____
Suc. Port Dia: _____
Dis. Port Dia: _____
Sys. Pipe Size: _____
HP / RPM: _____
Particles Present ? ☐Yes ☐No ☐Unknown
If Yes, Particle Size: _____ % by Volume: _____
Particle Hardness: _____

Pump Design:

☐ANSI ☐Non-ANSI ☐Self-Primer

Material: ☐Alloy ☐Non-Metallic

Ports: ☐NPT ☐Flanged

O-Ring / Gasket Material: _____

Motor: ☐TEFC ☐Chem Duty
☐Explosion Proof ☐Other
Could pump run dry ? ☐Yes ☐No
Could pump be Dead-Headed ? ☐Yes ☐No

Mounting Configuration:

☐ Bearing Frame for Base Mounting
☐ Close Coupled

Options:

☐ LINEMAN Power Monitor (req. for warranty)
☐ Base Plate
☐ Base Plate
☐ Casing Drain

Notes:

Fax this sheet to: Warrender, Ltd. 847-247-8680

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