

MAGNETIC CENTRIFUGAL PUMP



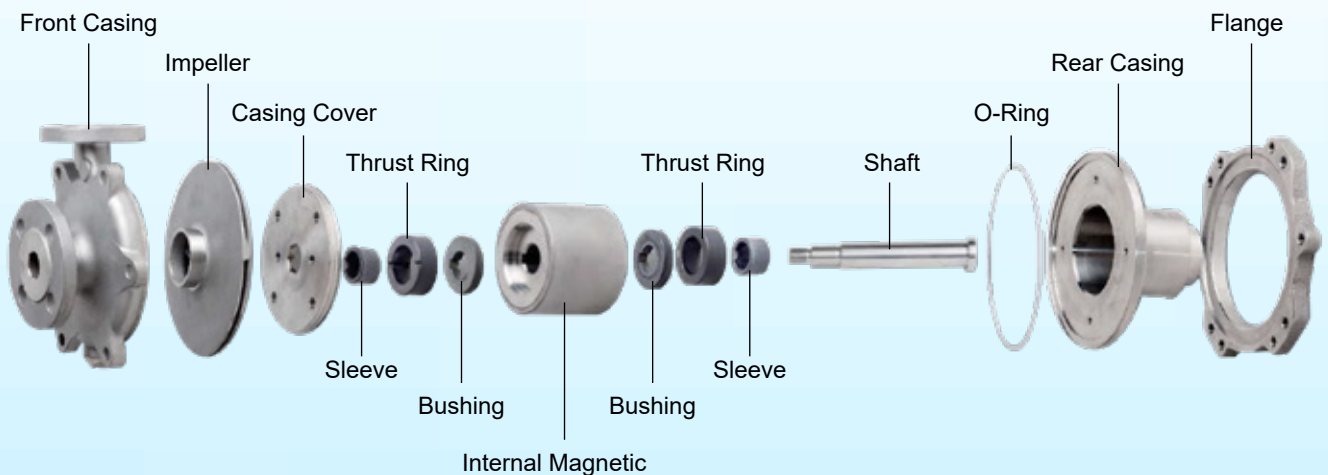
CAVALLI

MSMP SERIES

CLOSE-COUPLE MAGNETIC DRIVEN CENTRIFUGAL PUMP



- No shaft seal is required therefore it is leak-free
- Reliable and safe due to seal-less feature
- Simple and compact design
- Easy maintenance
- Stainless steel
- Pump at high temperature 280°C
- Pump at low temperature -80°C



ORDERING CODES

MSMP-Lxxx-RRLxx-Special code

1: Main Material

L - SS316 / SCS14

2: Model

210
220
221
222
420
421
423
541
542
543
842

3: Bushing

R - SSiC

4: Thrust Ring

R - SSiC

5: Shaft

L - SS316

6: O-Ring

E - EPDM
V - FPM
T - PTFE

7: Density

L - 1.1
M - 1.3
H - 1.5



For liquid with high temperature

MSMH (-30°C ~ +280°C)

- Fin type frame adapter dissipates heat away from pump.
- Rare earth SmCo magnets are used.
- High temperature gasket material is used.



For liquid with low temperature

MSML (-80°C ~ +150°C)

- Nitrogen purge port is provided to prevent moisture from freezing in the frame adapter.
- Rare earth Nd magnets are used.
- Low temperature gasket material is used.

TYPICAL APPLICATIONS

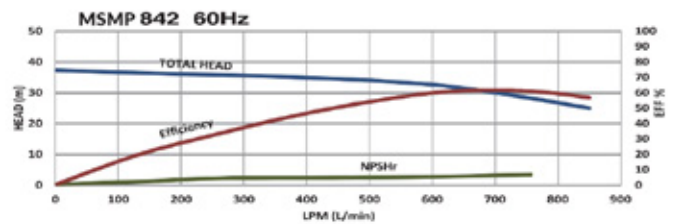
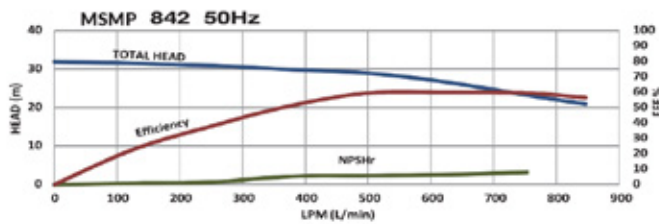
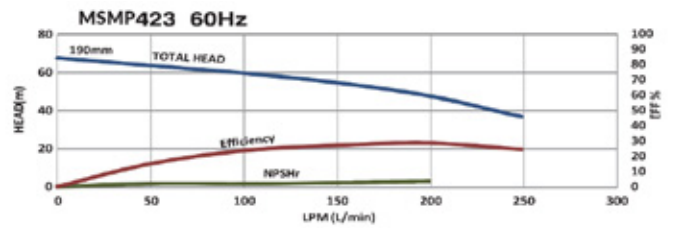
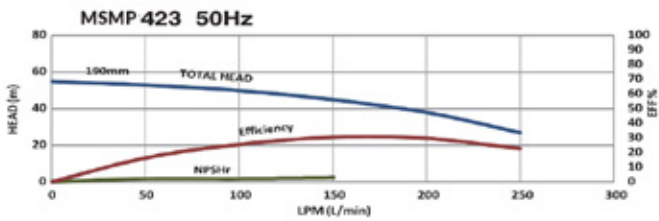
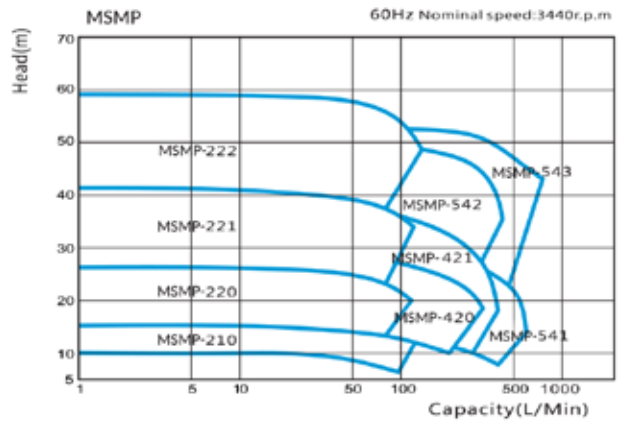
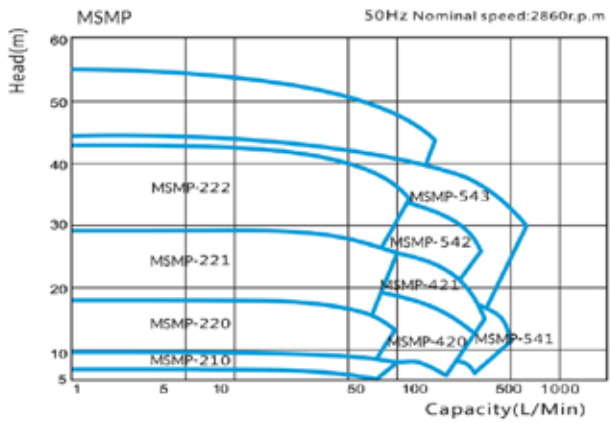
Citric Acid
Acetic Acid
Aceton
Acrylonitrile
Acrylic Acid
Ethylene Oxide
Amyl Acetate
Anhydrous Ammonia
Flourinert (3M)
Butadiene
Hydrofluoric Acid

Chlorosulfonic Acid
Acetaldehyde
Glycol
Ethylene
Ammonium Hydroxide
Benzene
Phenol
Heat Transfer Fluid
Hexane
Phosgene
Pure Water

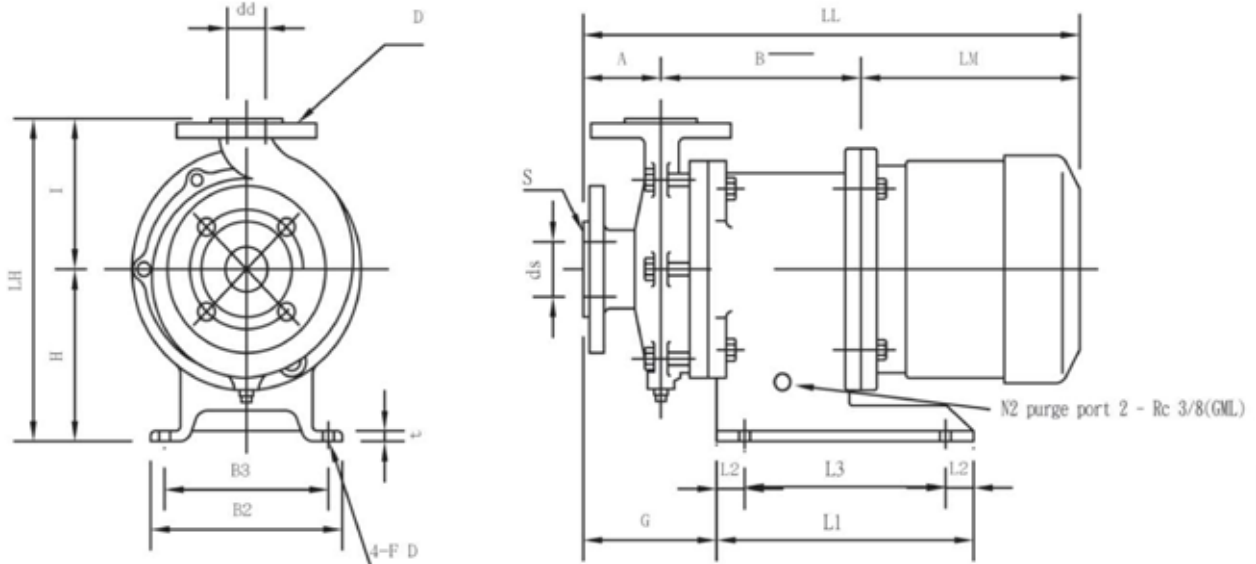
Isopropyl Alcohol
Styrene
Vinyl Chloride
Methacrylates
TDI
Ethanol
Chloroform
Phosphoric Acid
Cyclohexane
Sodium Carbonate
Sodium Chlorate

NaOH
Maleic Acid
H2SO4
Methanol
Toluene
Vinyl Acetate
MDI
DO Monomer
Hot Water
Xylene
Water

PUMP PERFORMANCE CURVE



SERIES INSTALLATION DIMENSIONS



SPECIFICATION TABLE

Dimensions in mm

SIZE	MOTOR		BORE				PUMP & MOTOR DIMENSION							BASE PLATE						WEIGHT APPROX. (kg)														
	FRAME SIZE	OUTPUT(W)	SUCTION		DISCHARGE		A	B	H	I	LH	LM	LL	G	L1	L2	L3	B2	B3	T	FD	PUMP	MOTOR	TOTAL										
			D	SS	DD	D																												
MSMP-210	80M	0.75	25		20		75	170	110	105	215	233	478	125	180	30	120	160	130	12	φ12	22	17	39										
	90L	1.5										275	520									22	24	46										
MSMP-220	80M	0.75	25		20		60	170	110	120	230	233	463	110	180	30	120	160	130	12	φ12	23	17	40										
	90L	1.5							(170)	275	505	23	24									47												
MSMP-221	90L	1.5, 2.2	25		20		65	165	170	130	300	275	505	110	250	30	190	200	160	18	φ12	27	24	51										
	(100L)112M	(2.2), 3.7										326	566									30	46	76										
MSMP-222	90L	1.5, 2.2	25		20		65	165	170	140	310	275	505	110	250	30	190	200	160	18	φ12	29	24	53										
	(100L)112M	(2.2), 3.7										326	566									33	46	79										
	132S	5.5										245	212									352	400	710	125	350	50	250	250	200	φ15	47	68	115
MSMP-420	80M	0.75	40		25		75	170	170	135	305	233	478	125	250	30	190	200	160	18	φ12	29	17	46										
	90L	1.5, 2.2										275	520									29	24	53										
	(100L)112M	(2.2), 3.7										340	595									29	46	75										
MSMP-421	90L	1.5, 2.2	40		25		75	170	170	135	305	275	520	125	250	30	190	200	160	18	φ12	30	24	54										
	(100L)112M	(2.2), 3.7										326	581									34	46	80										
	132S	5.5										250	212									347	400	725	140	350	50	250	250	200	φ15	44	68	112
	90L	2.2										170	170									140	310	275	525	130	250	30	190	200	160	18	φ12	31
MSMP-541	(100L)112M	(2.2), 3.7	50		40		80	170	170	140	310	326	586	130	250	30	190	200	160	18	φ12	35	46	81										
	132S	5.5										250	212									352	400	730	145	350	50	250	250	200	φ15	44	68	112
	90L	2.2										170	170									150	320	275	505	110	250	30	190	200	160	18	φ12	34
MSMP-542	(100L)112M	(2.2), 3.7	50		40		65	165	170	150	320	275	505	110	250	30	190	200	160	18	φ12	38	46	84										
	132S	5.5										245	212									362	400	710	125	350	50	250	250	200	φ15	39	68	117
	90L	2.2										102	234									180	165	345	393	729	125	350	25	300	290	250	18	φ15
MSMP-423	132S	5.5, 7.5	40		25		102	234	180	165	345	393	729	125	350	25	300	290	250	18	φ15	65	68	133										
MSMP-543	132S	5.5, 7.5	50		40		102	234	180	165	345	393	729	125	350	25	300	290	250	18	φ15	65	68	133										
MSMP-842	132S	5.5, 7.5	80		40		102	234	180	165	345	393	729	125	350	25	300	290	250	18	φ15	67	68	135										

*LM, LM dimensions and motor weight may vary depending on motor used.

*The motor size and weight are based on TECO motor.