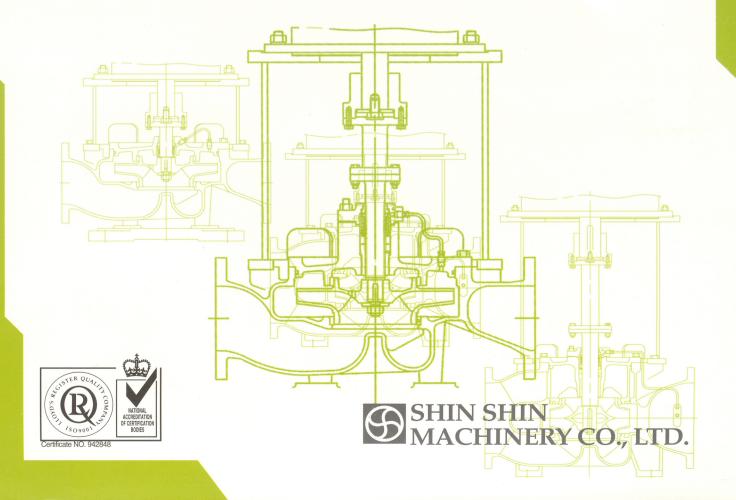
MDC



MDC Series

입형, 단단, 양흡입, 클로즈 카플드 형식

Vertical Single Stage Double Suction **Closed Coupled Type**



맑은 액체용(청수, 해수, 기름) 광범위한 사용영역의 일반용도 펌핑에 사용된다. 일반산업용, 가정용수공급용, 빌딩용, 급수시설, 수처리, 관개 및 선박용 등

Use and applications

For clean fluids(water, sea water, oil etc.) For general purpose pumping in a wide range of services: general industries, domestic water, buildings, waterworks, water treatment, irrigation, marine use(fresh water, cooling water, sanitary, G.S, ballast.)

설계 및 구조적 특징

- 1. 넓은 사용영역에 걸쳐 효율이 높고, 운전이 정숙하며 고장이 적다.
- 2. 펌프 부품의 최대의 호환성
- 3. 플랜지는 KS, JIS 흡입 5kg/cm²,FF 토출 5kg/cm², 또는 10kg/cm²,FF
- 4. 동평형된 임펠러
- 5. 구동기 측에서 보아 우회전
- 6. 임펠러 후방 취출 구조
- 7. 협소한 공간에 사용이 용이하다.
- 8. 유지, 보수가 쉽다.
- 9. 동력은 리지드 카플링으로 전달된다.
- 10. 축 씰링은 M/Seal 또는 Packing 가능하다.

Design and construction features

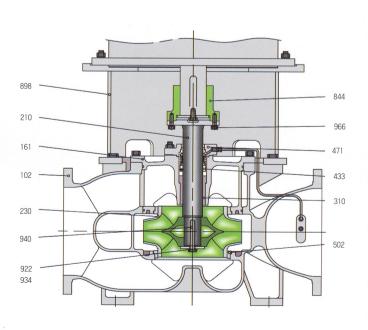
- 1. Good efficiency smooth operations and trouble free operation throughout a wide range of hydraulic coverage.
- 2. Maximum interchangeabilites of pump parts.
- 3. Flange are KS, JIS Suc. 5kg/cm²,FF Dis. 5kg/cm 또는 10kg/cm,FF
- 4. Dynamically balanced impeller.
- 5. Clock-wise(CW) rotation when viewd from the driver end.
- 6. Impeller back pull-out arrangement.
- 7. Available to install on a small space.
- 8. Easy to maintenance.
- 9. Power transmission is performed by a rigid coupling.
- 10. Shaft Sealing by M/Seal or Packing type.

Principal particulars

Item Model		300C	300D	350C	400C	500C				
Rotation		Clockwise when viewed driver end								
Suction Bore	(mm)	300	300	350	400	500				
Discharge Bore	(mm)	300 250		350	400	500				
Stuffing box seal		Gland packing or Mechanical seal								
Weight : GC(BC)	(kg)	440(500)	470(530)	550(600)	630(930)	1830(1930)				
Water filled in casing	(kg)	124	130	150	295	450				

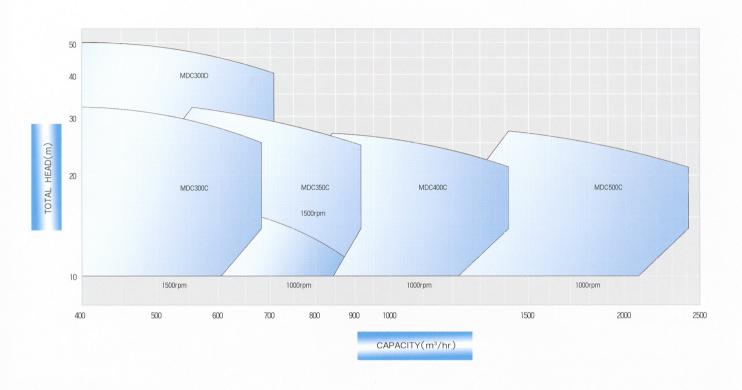
Standard Materials

Part	NAME OF PART	REQ. NO. FOR	CONTRACTOR OF THE PARTY OF THE	OR WATER		OR VATER	
No.		1PUMP	NAME	KS	NAME	KS	
102	Volute Casing	1	Cast Iron	GC200	Bronze	BC6	
161	Casing Cover	1	Cast Iron	GC200	Bronze	BC6	
210	Shaft	1	Stainless Steel	STS304	Stainless Steel	STS304	
230	Impeller	1	Phosphore Bronze	PBC2	Phosphore Bronze	PBC2	
310	Sleeve Bearing	1	PAG	-	PAG	-	
433	Mechanical Seal	1	-	-	-	-	
471	Seal Cover	1	Bronze	BC6	Bronze	BC6	
502	Casing Wear Ring	2	Leaded Tin Bronze	LBC4	Leaded Tin Bronze	LBC4	
844	Coupling	1	Ductile Cast Iron	GCD450	Ductile Cast Iron	GCD450	
866	Coupling Bolt/Nut	3	Cr.Mo Steel	SCM440	Cr.Mo Steel	SCM440	
898	Motor Frame	1	Steel	SS400	Steel	SS400	
922	Impeller Bolt	1	Stainless Steel	STS304	Stainless Steel	STS304	
934	Lock Washer	1	Stainless Steel	STS304	Stainless Steel	STS304	
940	Impeller Key	1	Stainless Steel	STS304	Stainless Steel	STS304	

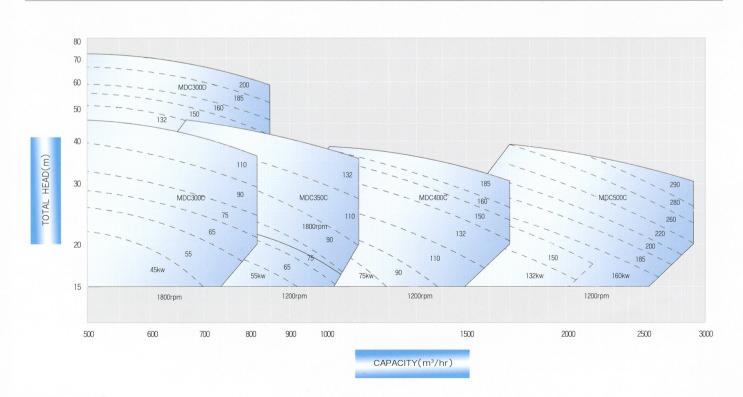


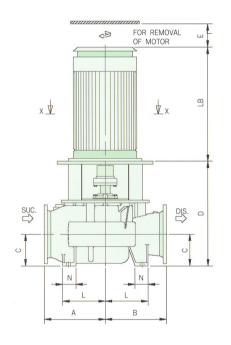
MDC series

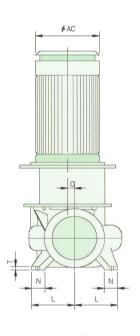
Double Suction 양흡입(50Hz)

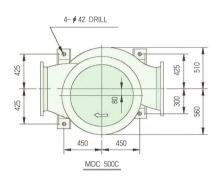


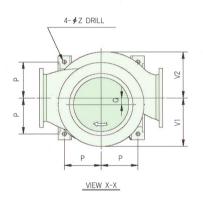
Double Suction 양흡입(60Hz)











Dimensions: mm

Model	Bore			A															
Model	Suc.	Dis.	В		С	D	Е	G	LB	L	N	Р	Т	Z	AC	V1	V2		
MDC 300C	300	300	420	420	250	1220	250	50	985	295	105	250	25	28	570	410	320		
MDC 300D	300	250	450	450	250	1240	250	50	1200	320	110	270	28	28	570	410	320		
MDC 350C	350	350	430	430	- 270	1265	250	50	1070	310	105	265	28	33	570	410	330		
MDC 400C	400	400	550	550	290	1425	250	60	1510	385	120	330	30	33	600	500	430		
MDC 500C	500	500	730	730	380	1675	250	80	1810	-	-	-	35	-	700	530	510		

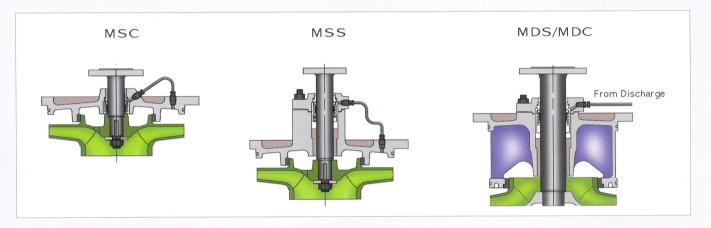
공통자료

Stuffing Box Seal

The stuffing box is fitted with a mechanical seal but gland packing, can be fitted if the customer requires it to eliminate gland adjustment

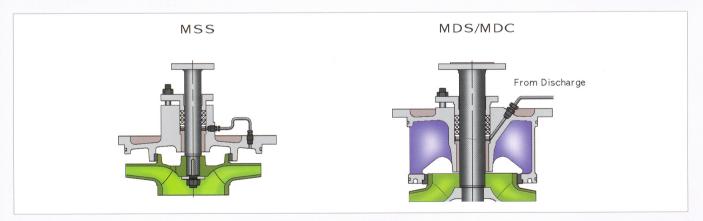
Fitted with mechanical seal

Flushing water is led to the stuffing box from the discharge side, and returned to the suction side in casing after Flushing mechanical seal.



Fitted with gland packing

Sealing water is led to the stuffing box from the discharge side, and most of the water is returned to the suction side in casing, the rest is drained to bilge ater sealing gland packing.



VACUUM PUMP UNIT

When self priming system is required, vacuum pump unit driven by pump motor through clutch is provided. During the pump operation, vacuum pump is stopped automatically by taking off clutch reflected by the pressure of handling water

Motor

The motor for this type of pump must satisfy the following conditions:

Axial thrust

The thrust due to the weight of the rotating element acts downward.

The maximum values are as shown in the following table.

Uuit:kg

Medel	MSS/MSC										MDS/MDC			
Model	100C	100D	125C	125D	150C	150D	200C	200D	250C	300C	300D	350C	400C	
Thrust	34	38	49	58	55	65	70	85	50	80	105	110	125	

Notes

- · The thrust for 500c pumps are variable according to the hydraulic force acting on the impeller.
- · The thrust bearing for the motor must be of the fixed type(below 0.7mm) for up and down directions.
- · The permissible value of elongation of the shaft end due to thermal expansion is to be less than 1mm.

Screw at the motor shaft end (Bolt for fixing is supplied by shin shin)

In order to support the pump rotating element the shaft end must be provided with threaded hole for fitting the motor coupling.

Rectangularity and eccentricity for motor flange

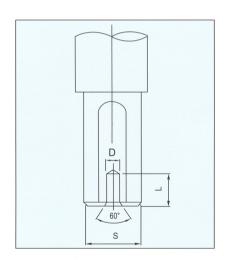
The rectangularity of the flange face relative to the axis and the eccentricity of the flange fitting outside diameter must be less than 0.127mm when read from a dial indicator.

Shaft end deflection

The shaft end deflection must be less than 0.05mm when read from a dial indicator.

Standard Accessories

Discharge pressure gauge Suction compound gauge	1
Gauge board	1
Gauge root valve	2
Sealing pipe 1	set
Vacuum unit(for self priming pump)	set

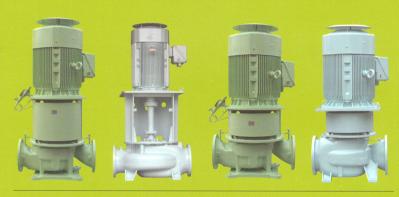


Uuit:mm

Motor Shaft(S)	D	Lmin
~38(7.5KW)	M12	21
~48(22KW)	M16	27
~85(150KW)	M20	33

Standard Spare Parts

- 1 pump set of the following spare is supplide for
- 1 ship.
- Gland packing or mechanical seal
- Coupling bolt & nut
- Bearing bush
- Complete set of rotating element(if required)





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