



3 SCREW PUMP

MST-H



特長

Feature

MST-Hシリーズは、一般用電動縦形中圧3軸ねじポンプです。本ポンプは、クロスヘッド形ディーゼル機関専用のクロスヘッド潤滑油ポンプです。

MST-H series is motor driven vertical medium pressure 3 screw pumps. THIS pump is a CROSSHEAD LUBE OIL PUMP specialized for the crosshead type diesel engine.

- **ねじ**：1本の主ねじとこれに油圧駆動される2本の従ねじの三軸のねじで構成されています。



- This pump is composed of two idler rotors meshed with a power rotor which are cased in a sleeve. The idler rotors are driven by the liquid pressure.

仕様

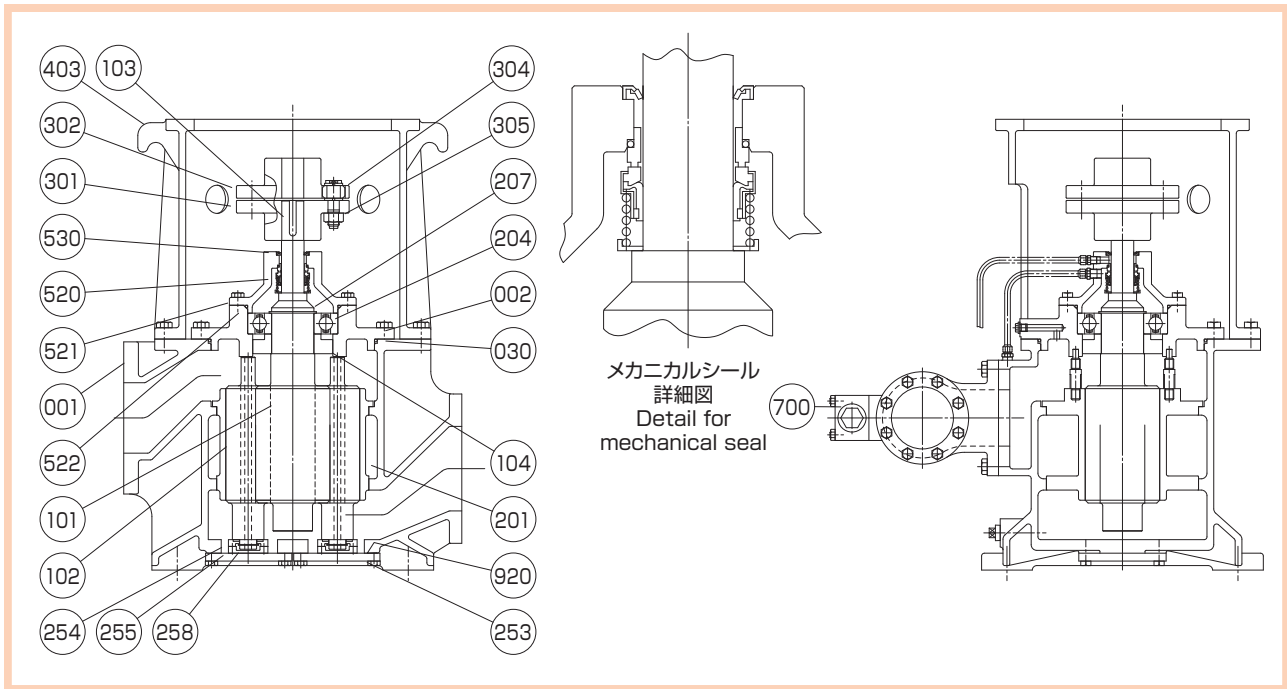
Specification

- **温度**：取扱い油温は、最高80℃です。
- **軸受**：内装軸受式で揚液による自己潤滑方式のため、潤滑性を有する液に適します。
- **軸封**：メカニカルシール式が標準です。
- **フランジ**：吸込みJIS5K、吐出しJIS16Kです。
- **軸芯**：ポンプと電動機との軸継手の芯振れの許容範囲は、回転速度2000~500min⁻¹において軸継手側面で0.1mm以下、軸継手端で0.1mm以下です。
- **耐圧試験**：計画仕様圧力の2倍が標準です。最高3.20MPaです。
- **吐出し量**：吐出し量は、全圧力1.20MPa、粘度25.8mm²/sにおける量です。許容吸込圧力範囲は、ポンプ入口において-0.05~0.50MPaです。
- **Temperature**：Maximum handling oil temperature is 80℃.
- **Bearing**：Internal bearing is self-lubricated by pumping liquid which is suitable to serve lubricant fluids.
- **Shaft Seal**：The mechanical seal is our standard.
- **Frang**：Both suction is JIS5K and discharge is JIS16K.
- **Centering**：If connecting the pump with the motor, the standard allowable alignment value at the rate of 2000~500min⁻¹ at the shaft coupling side surface should be under 0.1mm and at the shaft coupling end surface should be under 0.1mm.
- **Hydraulic Test**：Twice the value of the designed specification pressure with a maximum value of 3.20MPa.
- **Capacity**：The following capacity shows at viscosity of 25.8mm²/s with total pressure of 1.20MPa. The allowable suction pressure range is -0.05~0.50MPa at the pump suction.

型式 Model No.	口径 Bore(mm) 吸込み×吐出し Suc.×Dis.	吐出し量 Capacity(m ³ /h)	
		1800min ⁻¹	1500min ⁻¹
MST- 30HT	150×125	25	20
MST- 40HT		35	30
MST- 50HT		50	40
MST- 65HT	150×125	60	50
MST- 80HT		75	60
MST- 90HT		85	70
MST- 100HT	200×150	95	75
MST- 110HT		105	85
MST- 120HT		120	95
MST- 135HT	250×200	130	105
MST- 150HT		145	115
MST- 165HT		160	125

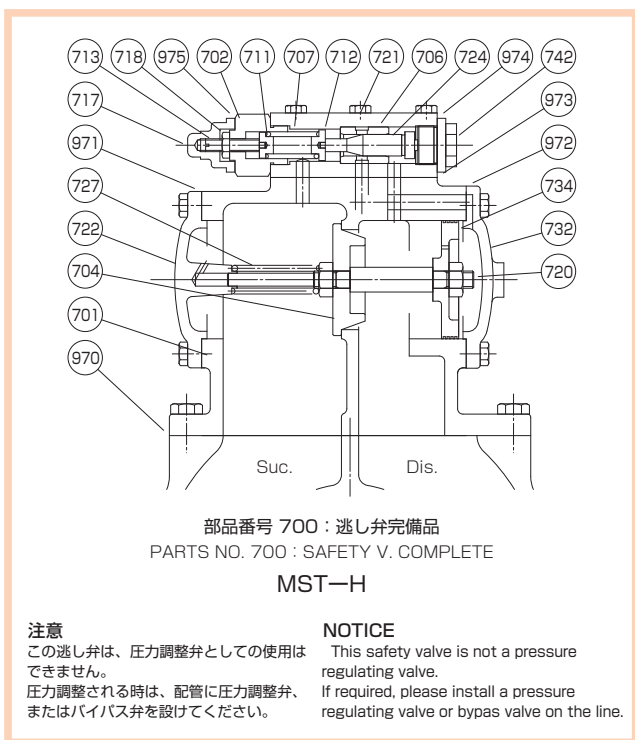
構造及び材質

Structure and Material



No.	Name	Material		Q'ty
		Symbol	Name of Material	
001	Casing	FC200	Cast iron	1
002	Casing cover	FC200	Cast iron	1
030	O-ring	NBR	Rubber	1
101	Power rotor	S45C	Carbon steel	1
102	Idler rotor	D-5	Ductile cast iron	2
103	Key	S45C	Carbon steel	1
104	Balancing piston	S45C	Carbon steel	1
201	Sleeve	FC200	Cast iron	1
204	Ball bearing	SUJ2	Bearing steel	1
207	Retaining ring	SK5	Carbon tool steel	1
253	Bearing cover	SS400	Mild steel	2
254	Thrust bearing	CAC603	Lead bronze	2
255	Bearing seat	SS400	Mild steel	2

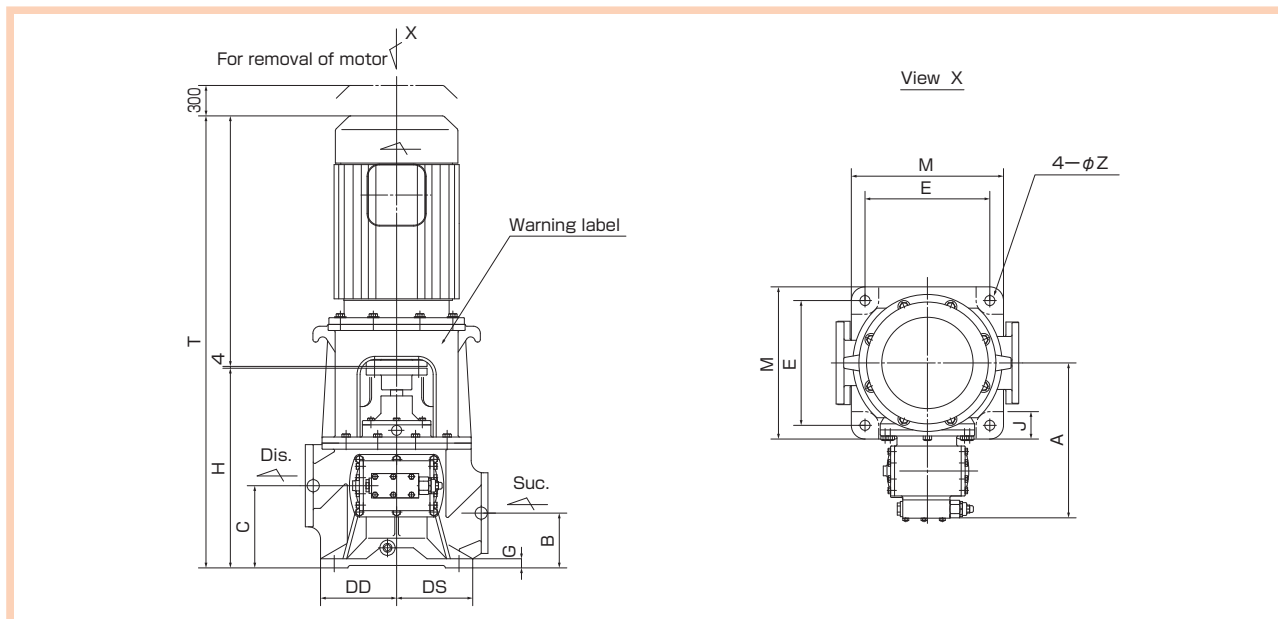
No.	Name	Material		Q'ty
		Symbol	Name of Material	
258	Retaining ring	SK5	Carbon tool steel	2
301	Coupling	FC200	Cast iron	1
302	Coupling	FC200	Cast iron	1
304	Coupling ring	NBR	Rubber	8
305	Coupling bolt & nut	SS400	Mild steel	8
403	Frame	FC200	Cast iron	1
520	Mechanical seal	—	Sic & carbon	1
521	Mech. seal cover	FC200	Cast iron	1
522	O-Ring	NBR	Rubber	1
530	Oil seal	NBR	Rubber	1
700	Safety valve complete	—	—	1
920	Gasket	—	Paper	2



No.	Name	Material		Q'ty
		Symbol	Name of Material	
701	Safety valve box	FC200	Cast iron	1
702	Safety valve cover	SS400	Mild steel	1
704	Safety valve	S45C	Carbon steel	1
706	Safety valve seat	CAC402	Bronze	1
707	Safety valve spring	SWPA	Piano wire	1
711	Spring carrier	SS400	Mild steel	1
712	Spring carrier	SS400	Mild steel	1
713	Adjust screw	SS400	Mild steel	1
717	Safety valve cap	FC200	Cast iron	1
718	Lock nut	SS400	Mild steel	1
720	Piston rod	S45C	Carbon steel	1
721	Safety valve box	FC200	Cast iron	1
722	Safety valve cover	FC200	Cast iron	1
724	Safety valve	SUS410	Stainless steel	1
727	Safety valve spring	SWPA	Piano wire	1
732	Safety valve cover	FC200	Cast iron	1
734	Piston valve	S45C	Carbon steel	1
742	Safety valve cover	FC200	Cast iron	1
970	Gasket	—	Paper	1
971	Gasket	—	Paper	1
972	Gasket	—	Paper	1
973	Gasket	—	Paper	1
974	Gasket	—	Paper	2
975	Gasket	—	Paper	1

寸法

Dimension



型式 Model No.	口径 Bore 吸込み×吐出し Suc.×Dis.	寸法 Dimension(mm)											ポンプ質量 Pump Weight (kg)	
		A	B	C	DS	DD	E	G	H	J	M	T		Z
MST- 30HT	150×125	500	180	215	270	270	330	25	571	75	400	1250	33	310
MST- 40HT														
MST- 50HT														
MST- 65HT														
MST- 80HT														
MST- 90HT	150×125	520	180	270	300	300	410	30	656	90	500	1535	33	370
MST- 100HT														
MST- 110HT														
MST- 120HT														
MST- 135HT														
MST- 150HT	250×200	570	250	310	340	350	450	35	786	100	550	1785	33	470
MST- 165HT														

※電動機メーカー及び形番によりT高さ及び質量は異なります。
 Depend on motor manufacturer and model, measurement of T and weight maybe changed.

大晃機械工業株式会社 TAIKO KIKAI INDUSTRIES CO., LTD.

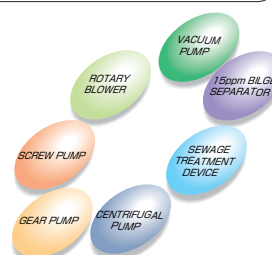
URL <http://www.taiko-kk.com>

- 本 社 ・ 工 場 〒742-1598 山口県熊毛郡田布施町大字下田布施209-1
 TEL: (0820)52-3113~4 FAX: (0820)53-1001 E-mail: business@taiko-kk.com
- 東 京 支 店 〒101-0061 東京都千代田区三崎町3-4-9 水道橋MSビル4階
 TEL: (03) 3221-8551 FAX: (03) 3221-8555 E-mail: tokyo-br@taiko-kk.com
- 大 阪 支 店 〒541-0048 大阪市中央区瓦町3-4-7 KCビル8階
 TEL: (06) 6231-6241 FAX: (06) 6222-3295 E-mail: osaka-br@taiko-kk.com

北京駐在事務所・上海駐在事務所・韓国大晃

- Head Office & Factory 209-1 Shimotabuse, Tabuse-cho, Kumage-gun, Yamaguchi Pref. 742-1598 Japan
 TEL: 81-820-52-3113~4 FAX: 81-820-53-1001 E-mail: business@taiko-kk.com
- Tokyo Branch 4th floor, Suidobashi MS Building, 3-4-9 Misaki-cho, Chiyoda-ku, Tokyo 101-0061 Japan
 TEL: 81-3-3221-8551 FAX: 81-3-3221-8555 E-mail: tokyo-br@taiko-kk.com
- Osaka Branch 8th floor, KC Building, 3-4-7 Kawara-machi, Chuo-ku, Osaka 541-0048 Japan
 TEL: 81-6-6231-6241 FAX: 81-6-6222-3295 E-mail: osaka-br@taiko-kk.com

Beijing Office・Shanghai Office・Taiko Korea



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