



3 SCREW PUMP MSH-X



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

特長

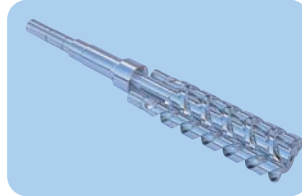
Feature

MSH-Xシリーズは、一般用電動横形高圧3軸ねじポンプです。MSH-XAは、軸封箱がオイルクエンチング式です。MSH-XNは、クエンチングの部品が付きません。

MSH-X series is motor driven horizontal high pressure 3 screw pumps. MSH-XA is fitted oil quenching system in the shaft seal box.

MSH-XN is not fitted oil quenching system.

■ **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150℃です。

■ **Temperature** : Maximum handling oil temperature is 150℃.

■ **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。

■ **Bearing** : Internal bearing is self-lubricated by pumping liquid which is suitable to serve lubricant fluids.

■ **軸封** : メカニカルシール式が標準です。軸封箱にオイルクエンチングを設けます。

■ **Shaft Seal** : The mechanical seal is our standard. Oil quenching is provided in the shaft seal box.

■ **フランジ** : 吸込みJIS10K、吐出しJIS210Kです。

■ **Frang** : Suction is JIS10K. Discharge is JIS210K.

■ **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、軸継手端面で0.1mm以下です。

■ **Centering** : If connecting the pump with the motor, the 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.

■ **耐圧試験** : 計画仕様圧力の2~1.5倍が標準です。

■ **Hydraulic Test** : Twice the value of the designed specification pressure.

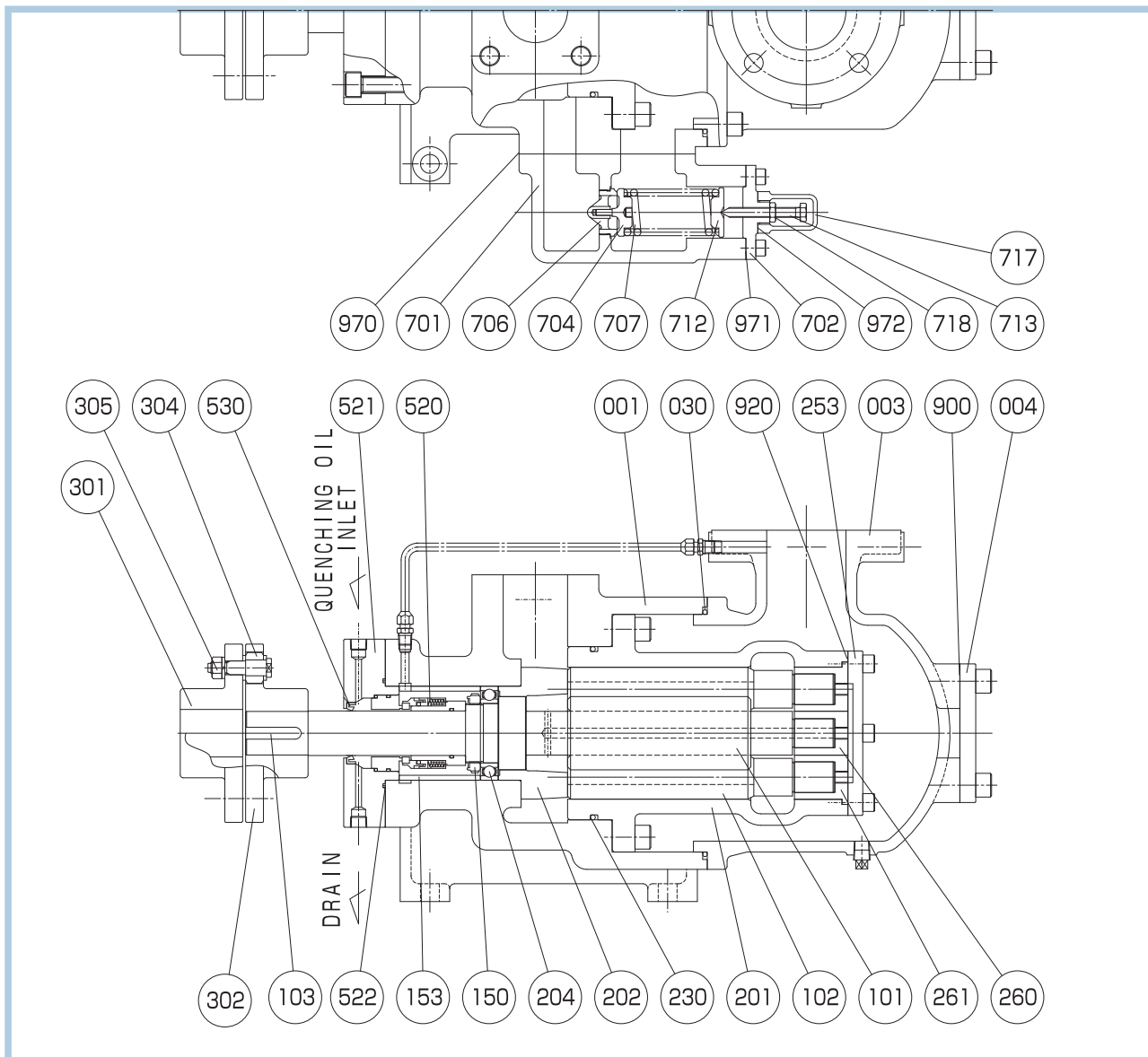
■ **吐出し量** : 吐出し量は、吐出圧力2.50MPa、粘度25.8mm²/sにおける量です。許容吸込圧力範囲は、ポンプ入口において-0.05~0.60MPaです。

■ **Capacity** : The following capacity shows at viscosity of 25.8mm²/s with discharge pressure of 2.50MPa. The allowable suction pressure range is -0.05 to 0.60MPa at the pump suction.

形式 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
MSH - 2XA	50×40	2.5	2
MSH - 3XA		3.5	2.5
MSH - 5XA		4.4	3
MSH - 6XA	65×50	5.5	4.3
MSH-7.5XA		7.4	5.5
MSH-10XA		10	8
MSH-12XA	80×65	12	9.5
MSH-15XA		15	11.5
MSH-20XA		19	15
MSH-30XA	100×80	30	24

構造及び材質

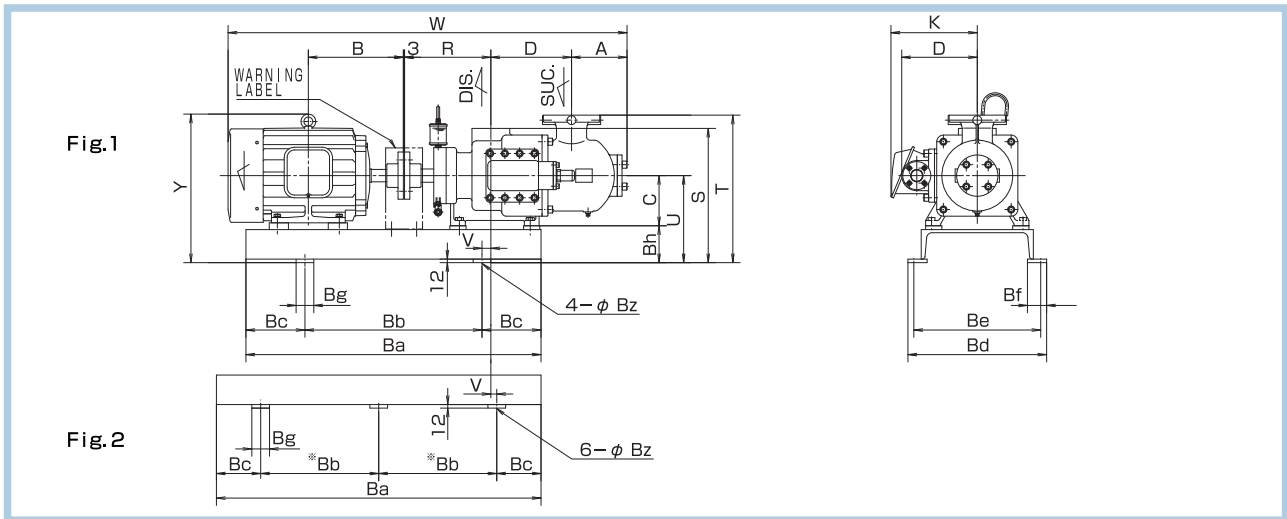
Structure and Material



No.	Name	Material			No.	Name	Material		
		Symbol	Name of Material	Q' ty			Symbol	Name of Material	Q' ty
001	CASING	FCD400	DUCTILE CAST IRON	1	305	COUPLING BOLT & NUT	SS400	MILD STEEL	8
003	SIDE CASE	FC200	CAST IRON	1	520	MECHANICAL SEAL	-	T.C & CARBON	1
004	REAR COVER	SS400	MILD STEEL	1	521	SEAL COVER	FCD400	DUCTILE CAST IRON	1
030	O-RING	FPM	RUBBER	1	522	O-RING	FPM	RUBBER	1
101	POWER ROTOR	S45C	CARBON STEEL	1	530	OIL SEAL	FPM	RUBBER	1
102	IDLER ROTOR	D-5	DUCTILE CAST IRON	2	701	SAFETY VALVE BOX	FC200	CAST IRON	1
103	KEY	S45C	CARBON STEEL	1	702	SAFETY VALVE COVER	FC200	CAST IRON	1
150	BEARING NUT	SS400	MILD STEEL	1	704	SAFETY VALVE	SUS410	STAINLESS STEEL	1
153	DISTANCE RING	STKM18	CARBON STEEL	1	706	SAFETY VALVE SEAT	CAC420	BRONZE	1
201	SLEEVE	FCD400	DUCTILE CAST IRON	1	707	SAFETY VALVE SPRING	SUP6	SPRING STEEL	1
202	BALANCING COVER	CAC603	LEAD BRONZE	1	712	SPRING CARRIER	SS400	MILD STEEL	1
204	BALL BEARING	SUJ2	BEARING STEEL	1	713	ADJUST SCREW	SS400	MILD STEEL	1
230	O-RING	FPM	RUBBER	1	717	SAFETY VALVE CAP	FC200	CAST IRON	1
253	REAR BEARING COVER	FC200	CAST IRON	1	718	LOCK NUT	SS400	MILD STEEL	1
260	REAR BEARING BUSH	CAC603	LEAD BRONZE	1	900	GASKET	-	PAPER	1
261	REAR BEARING BUSH	CAC603	LEAD BRONZE	2	920	GASKET	-	PAPER	1
301	COUPLING	FC200	CAST IRON	1	970	GASKET	-	PAPER	1
302	COUPLING	FC200	CAST IRON	1	971	GASKET	-	PAPER	1
304	COUPLING RING	NBR	RUBBER	8	972	GASKET	-	PAPER	1

寸法

Dimension



形式 Model No.	電動機 Motor	口径 Bore 吸込み・吐出し Suc. x Dis.	寸法 Dimension (mm)																	質量 Weight (kg)							
			A	B	D	K	Q	R	S	T	U	V	W	Y	Ba	Bb	Bc	Bd	Be	Bf	Bg	Bh	Bz	ポンプ Pump	台板 Base	電動機 Motor	
MSH- 2X - 3X - 5X	90L	50×40	168.5		156					345	385	245	35	893	346	700	450	125	325	290	55	50	120	15	62	30	23
	100L		193		161					345	385	245	35	932	384	700	450	125	325	290	55	50	120	15		30	30
	112M		200		180					345	385	245	35	941	399	700	450	125	325	290	55	50	120	15		30	41
	132S		239	185	223		180	240		345	385	245	35	1010	433	700	450	125	390	350	65	60	120	19		33	63
	132M		258		223					345	385	245	60	1049	433	800	500	150	390	350	65	60	120	19		35	75
	160M		323		302					375	415	275	60	1144	458	800	500	150	390	350	65	60	150	19		36	107
160L	345		302					375	415	275	85	1186	458	900	550	175	390	350	65	60	150	19	40	127			
MSH- 6X - 7.5X - 10X	112M	65×50	200		180				420	465	280	10	1045	434	800	500	150	390	350	65	60	130	19	105	36	41	
	132S		239		223				420	465	280	10	1114	468	800	500	150	390	350	65	60	130	19		35	63	
	132M		258		223				420	465	280	10	1153	468	800	500	150	390	350	65	60	130	19		35	75	
	160M		323	230	302		220	270		420	465	280	60	1248	493	1000	600	200	390	350	65	60	130		19	45	107
	160L		345		302					420	465	280	60	1290	493	1000	600	200	390	350	65	60	130		19	45	127
	180M		351.5		330					445	490	305	60	1347	548	1000	600	200	470	430	65	60	155		19	60	160
180L	370.5		340					445	490	305	60	1285	565	1000	600	200	470	430	65	60	155	19	60	207			
MSH- 12X - 15X	132S	80×65	239		223				455	500	295	30	1201	483	1000	600	200	470	430	65	60	125	19	155	60	63	
	132M		258		223				455	500	295	30	1240	483	1000	600	200	470	430	65	60	125	19		60	75	
	160M		323		302				455	500	295	30	1335	500	1000	600	200	470	430	65	60	125	19		60	107	
	160L		345	273.5	302		260	292.5		455	500	295	30	1377	500	1000	600	200	470	430	65	60	125		19	60	127
	180M		351.5		330					465	510	305	30	1434	548	1100	700	200	470	430	65	60	135		19	65	160
	180L		370.5		340					465	510	305	30	1472	565	1100	700	200	470	430	65	60	135		19	65	201
MSH- 20X - 30X	160M	100×80	323		302				485	595	315	30	1415	528	1100	*400	150	470	430	65	60	125	19	200	66	107	
	160L		345		302				485	595	315	30	1457	528	1100	*400	150	470	430	65	60	125	19		66	127	
	180M		351.5	280	330		265	320		485	595	315	30	1514	558	1100	*400	150	470	430	65	60	125		19	66	160
	180L		370.5		340					485	595	315	30	1552	575	1100	*400	150	470	430	65	60	125		19	66	207
	200L		425.5							495	605	325	30	1636	746	1200	*450	150	470	430	65	60	130		19	72	350

※の寸法は図2を参照ください。※Please refer to the dimension of Fig.2.

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