

Volute pumps

M

TERAL



50Hz



TERAL INC.

Applications

- General water supply for buildings, condominiums, etc.
- Circulation of cold/warm water
- Conveyance of industrial water
- Conveyance and distribution of tap water
- Irrigation of paddies and fields
- Water sprinkling
- Other uses

Features

- ① Energy-saving pump with a Top Runner efficiency (equivalent to IE3) motor.
- ② High performance through the adoption of volute structure (special vortex chamber).
- ③ We offer reliability with our many years of manufacturing experience.
- ④ Best suited for various devices for high-pressure washing and high-pressure transfer.
- ⑤ Compatible mounting dimensions with conventional pumps. (Different in some model types)

Description of types

M 100 - 4 - 5 18 A H - e

①

②

③

④

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⑦

⑧

③No. of stages

④Frequency 5 : 50Hz

6 : 60Hz

⑤Output

⑥In-house symbol

⑦Performance code None : Standard

H : According to customer specified point

⑧Equipped with a Top Runner motor (equivalent to IE3)

* Please note that some of the devices in the photo may differ from actual devices in coating color, etc.



Standard specifications • Special specifications

— : Not available

Pumping liquid	Liquid quality	Fresh water	
	Liquid temperature	0 ~ 80℃	
Total suction head (in case of 20℃)		— 6m If the pump is used with the total suction head of 10 m or less, the total suction head should not exceed 60% of the total head.	
Allowable positive pressure		$\left(\frac{1.37\text{MPa} - \text{total suction head}}{102} \right)$ or 0.29MPa, whichever is lower	
Specifications		Standard specifications	Special specifications
Structure	Impeller	Closed	—
	Shaft seal	Gland packing	—
	Shaft sleeve	CAC406 : Nominal dia. 40,50,65, 5 stage or more Nominal dia. 80, 3 stage or more Nominal dia. 100 or more, all stages	SUS304 : Nominal dia. 40,50,65, 5 stage or more Nominal dia. 80, 3 stage or more Nominal dia. 100 or more, all stages
	Bearing	See supplementary table.	—
	Gland drain	Drain hole	Cock
	Casing drain	Plug	Cock
	Coupling guard	TERAL standard	Sealed coupling guard
	Flywheel	—	3kgf·m ² : all models 5kgf·m ² : 5.5kW or more 8kgf·m ² : Bore 65, 11kW or more
Material	Impeller	See supplementary table.	CAC902 : Nominal dia. 40,50
	Shaft	See supplementary table.	SUS304
	Casing	FC200	—
	Others	—	Total iron Suction port reverse direction No common base
Motor	Efficiency	Standard efficiency (equivalent to IE1) ...0.4kW Top Runner efficiency (equivalent to IE3) ...0.75kW or more	—
	Starting method	Direct-on-Line start 7.5kW or less Star-delta start 11kW or more	—
	Type	Totally enclosed fan-cooled indoor type	Totally enclosed fan-cooled outdoor type
	Power source	3-phase/200V	3-phase/400V : 11kW or more
	Synchronous rotation speed	1500min ⁻¹	—
Piping connection		See supplementary table.	—
Painting	Paint color	7.5BG5/1.5	Specified color for outer surface
	Painting type	TERAL standard painting	Salt-resistant paint Heavy-duty salt-resistant paint Japan Sewage Works Agency specifications

*Please note that in case of special specifications, the assembly drawing, etc., may differ from the standard drawing.

Standard accessories

Common base	1
Companion flange (packing, bolt, and nut included)	2 sets
Priming funnel (cock included)	1
Coupling	1 set
Coupling guard	1

*Standard accessories are included in the product components.

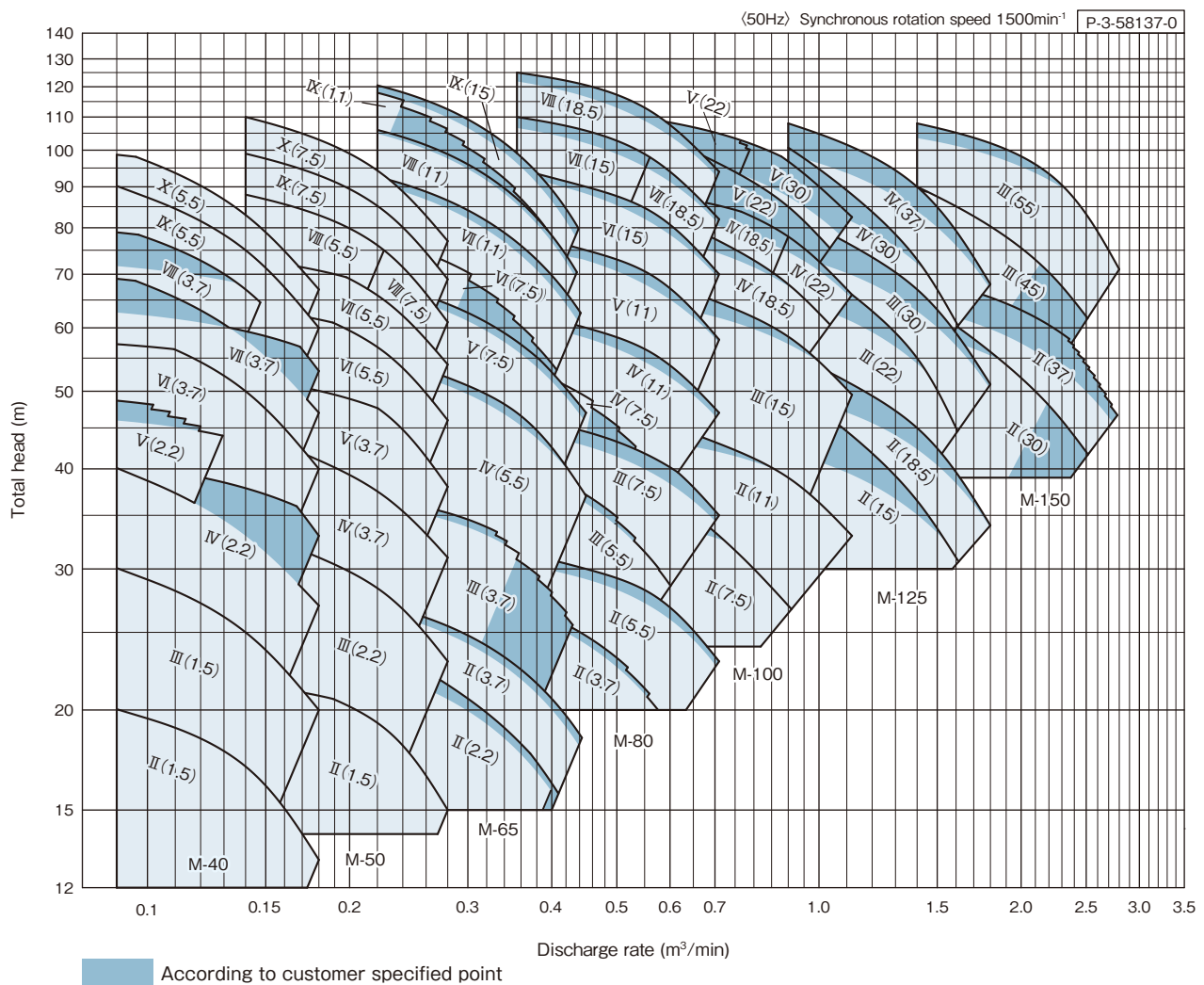
Special accessories

Foot valve
Suction cover
Sluice valve, check valve
Pressure gauge, compound gauge (cock and piping included)
Control panel
Vibration isolator
Vibration isolation joint
Anchor bolt

■ Supplementary table

Nominal dia. mm	No. of stages	Bearing		Material		Piping connection		
		Suction side	Discharge side	Impeller	Shaft			
40	~ 4	Sealed ball bearing		SUS304	SUS403	JIS10K thin type		
50	~ 4							
65	~ 4			CAC902				
80	~ 3							
40	5, 6	Duplex open ball bearing	Open ball bearing	SUS304	S45C (Shaft sleeve : CAC406)	Suction side : JIS10K thin type Discharge side : JIS10K Standard type		
50	5, 6							
65	5, 6			CAC902				
100	2							
40	7 ~	Duplex angular bearing					SUS304	
50	7 ~							
65	5 ~							
80	4 ~							
100	3 ~						CAC902	
125	All							
150	All							

■ Selection chart



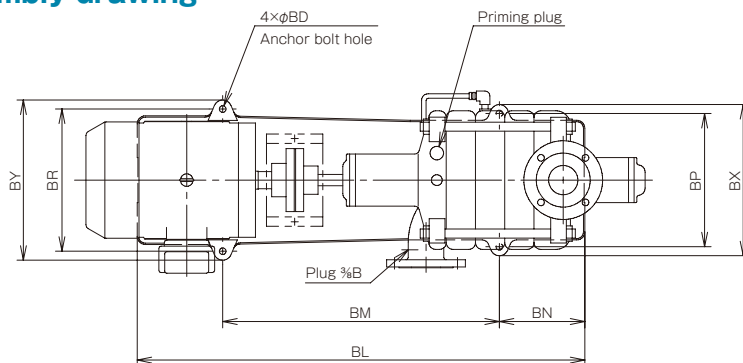
■ Specification table

Nominal diameter mm	Type	Number of stages	Output kW	Specifications	
				Discharge rate m ³ /min	Total head m
40	M40-2-51.5-e	2	1.5	0.14	17.0
	M40-3-51.5-e	3	1.5	0.14	25.0
	M40-4-52.2-e	4	2.2	0.14	33.0
	M40-4-52.2H-e			-	-
	M40-5-52.2-e	5	2.2	0.12	42.0
	M40-5-52.2H-e			-	-
	M40-6-53.7-e	6	3.7	0.14	50.0
	M40-7-53.7-e	7	3.7	0.14	55.3
	M40-7-53.7H-e			-	-
	M40-8-53.7-e	8	3.7	0.14	63.4
	M40-8-53.7H-e			-	-
	M40-9-55.5-e	9	5.5	0.14	75.0
	M40-10-55.5-e	10	5.5	0.14	83.0
50	M50-2-51.5-e	2	1.5	0.225	19.0
	M50-3-52.2-e	3	2.2	0.225	28.0
	M50-4-53.7-e	4	3.7	0.225	37.0
	M50-5-53.7-e	5	3.7	0.225	45.0
	M50-6-55.5-e	6	5.5	0.225	56.0
	M50-7-55.5-e	7	5.5	0.225	62.9
	M50-8-55.5-e	8	5.5	0.225	75.0
	M50-8-57.5-e	8	7.5	0.28	61.0
	M50-9-57.5-e	9	7.5	0.225	84.0
	M50-10-57.5-e	10	7.5	0.225	93.0
65	M65-2-52.2-e	2	2.2	0.34	19.0
	M65-2-52.2H-e			-	-
	M65-2-53.7-e	2	3.7	0.355	21.3
	M65-2-53.7H-e			-	-
	M65-3-53.7-e	3	3.7	0.30	34.3
	M65-3-53.7H-e			-	-
	M65-4-55.5-e	4	5.5	0.355	47.0
	M65-4-55.5H-e			-	-
	M65-5-57.5-e	5	7.5	0.355	58.0
	M65-5-57.5H-e			-	-
	M65-6-57.5-e	6	7.5	0.28	70.2
	M65-6-57.5H-e			-	-
	M65-7-511-e	7	11	0.355	72.3
	M65-7-511H-e			-	-
	M65-8-511-e	8	11	0.355	83.0
	M65-8-511H-e			-	-
	M65-9-511-e	9	11	0.225	113
	M65-9-511H-e			-	-
	M65-9-515-e	9	15	0.40	83.7
	M65-9-515H-e			-	-
80	M80-2-53.7-e	2	3.7	0.50	21.9
	M80-2-53.7H-e			-	-
	M80-2-55.5-e	2	5.5	0.56	28.0
	M80-2-55.5H-e			-	-
	M80-3-55.5-e	3	5.5	0.56	29.9
	M80-3-55.5H-e			-	-
	M80-3-57.5-e	3	7.5	0.56	38.4
	M80-3-57.5H-e			-	-
	M80-4-57.5-e	4	7.5	0.44	48.2
	M80-4-57.5H-e			-	-
	M80-4-511-e	4	11	0.56	56.0
	M80-4-511H-e			-	-
	M80-5-511-e	5	11	0.56	70.0
	M80-5-511H-e			-	-
	M80-6-515-e	6	15	0.56	84.0
	M80-6-515H-e			-	-
	M80-7-515-e	7	15	0.56	98.0
	M80-7-515H-e			-	-
	M80-7-518-e	7	18.5	0.71	82.0
	M80-7-518H-e			-	-
	M80-8-518-e	8	18.5	0.56	112
	M80-8-518H-e			-	-

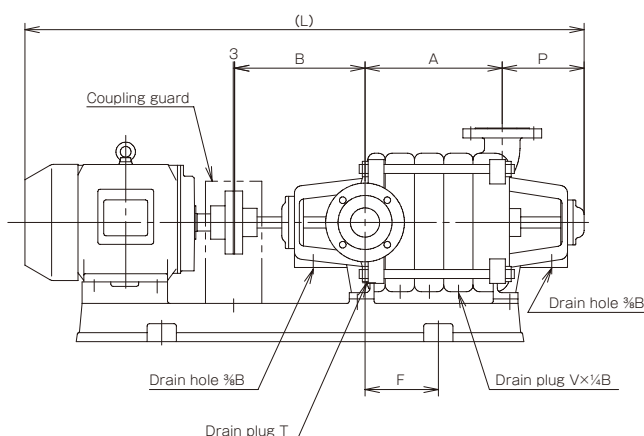
Nominal diameter mm	Type	Number of stages	Output kW	Specifications	
				Discharge rate m ³ /min	Total head m
100	M100-2-57.5-e	2	7.5	0.80	30.0
	M100-2-57.5H-e			-	-
	M100-2-511-e	2	11	0.90	39.0
	M100-2-511H-e			-	-
	M100-3-515-e	3	15	0.90	58.5
	M100-3-515H-e			-	-
	M100-4-518A-e	4	18.5	0.90	68.0
	M100-4-518AH-e			-	-
	M100-4-518B-e	4	18.5	0.80	75.5
	M100-4-518BH-e			-	-
	M100-4-522-e	4	22	1.0	68.5
	M100-4-522H-e			-	-
	M100-5-522AH-e	5	22	-	-
	M100-5-522B-e	5	22	0.70	92.7
	M100-5-522BH-e			-	-
125	M100-5-530-e	5	30	1.0	80.0
	M100-5-530H-e			-	-
	M125-2-515-e	2	15	1.4	34.0
	M125-2-515H-e			-	-
	M125-2-518-e	2	18.5	1.4	41.0
	M125-2-518H-e			-	-
	M125-3-522-e	3	22	1.4	51.7
	M125-3-522H-e			-	-
	M125-3-530-e	3	30	1.4	61.0
	M125-3-530H-e			-	-
	M125-4-530-e	4	30	1.4	69.1
	M125-4-530H-e			-	-
	M125-4-537-e	4	37	1.4	81.3
	M125-4-537H-e			-	-
150	M150-2-530-e	2	30	2.0	50.8
	M150-2-530H-e			-	-
	M150-2-537-e	2	37	2.25	52.3
	M150-2-537H-e			-	-
	M150-3-545-e	3	45	2.0	81.6
	M150-3-545H-e			-	-
	M150-3-555-e	3	55	2.25	86.0
	M150-3-555H-e			-	-

Note) The specification for the types with "H-e" at the end will depend on the required specific point.

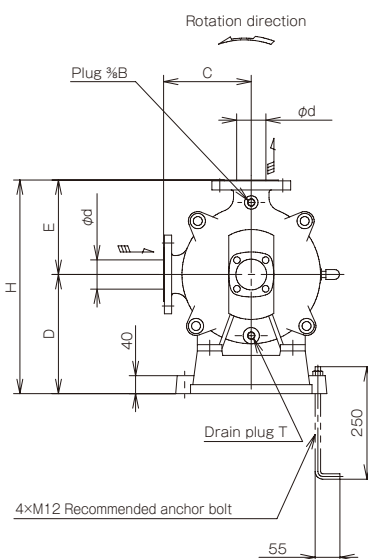
■ Assembly drawing



Flange dimensions: JIS 10K thin type or equivalent



Note) Total length dimension, approximate mass and terminal box position may be slightly different depending on motor manufacturer.



■ Dimensions

(Unit: mm)

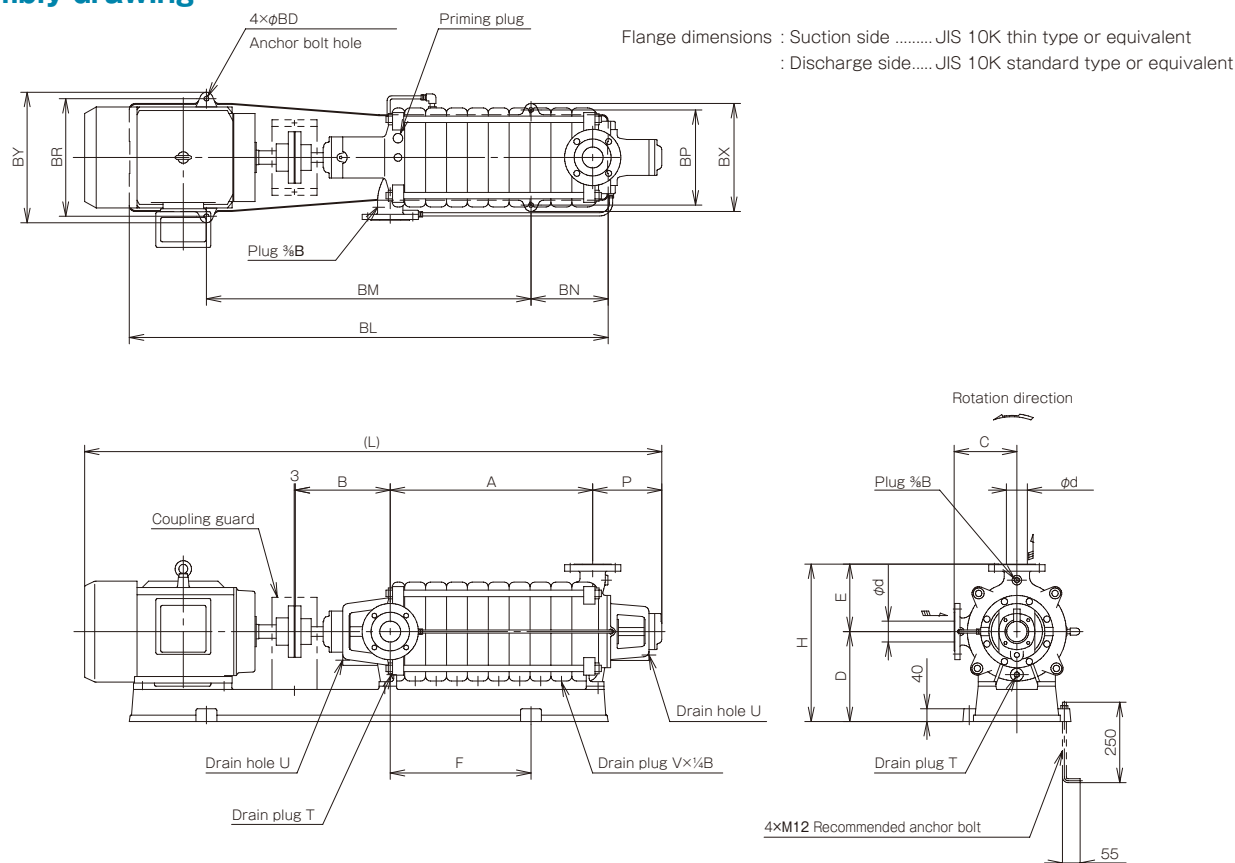
Nominal diameter d	Type	Output kW	Pump / Motor											Common base								Approx. mass kg
			A	B	C	D	E	F	H	L	P	T	V	BD	BL	BM	BN	BP	BR	BX	BY	
40	M40-2-51.5-e	1.5	122	231	175	210	195	54	405	835	167	1/4B	1	16	696	426	135	256	236	296	276	93
	M40-3-51.5-e	1.5	175	231	175	210	195	77	405	888	167	1/4B	2	16	749	419	165	256	236	296	276	105
	M40-4-52.2(H)-e	2.2	228	231	175	210	195	138	405	995	167	1/4B	3	16	825	511	157	256	256	296	296	124
50	M50-2-51.5-e	1.5	122	231	175	210	195	54	405	835	167	1/4B	1	16	696	426	135	256	236	296	276	92
	M50-3-52.2-e	2.2	175	231	175	210	195	112	405	942	167	1/4B	2	16	772	512	130	256	256	296	296	117
	M50-4-53.7-e	3.7	228	231	175	210	195	135	405	1010	167	1/4B	3	16	852	532	160	256	284	296	324	143
65	M65-2-52.2(H)-e	2.2	175	253	195	245	210	65	455	979	182	3/8B	1	15	780	436	160	296	256	336	296	142
	M65-2-53.7(H)-e	3.7	175	253	195	265	210	55	475	994	182	3/8B	1	15	800	430	170	296	286	336	326	153
	M65-3-53.7(H)-e	3.7	240	265	195	245	210	128	455	1071	182	3/8B	2	15	860	516	160	296	286	336	326	168
	M65-4-55.5(H)-e	5.5	305	290	195	265	210	163	475	1231	182	3/8B	3	15	995	615	190	296	316	336	356	229
80	M80-2-53.7(H)-e	3.7	195	287	210	255	230	72	485	1048	182	3/8B	1	15	833	513	160	296	286	336	326	155
	M80-2-55.5(H)-e	5.5	195	287	210	265	230	62	495	1118	182	3/8B	1	15	872	532	170	296	316	336	356	193
	M80-3-55.5(H)-e	5.5	265	287	210	265	230	124	495	1187	182	3/8B	2	15	936	586	175	290	310	330	350	209
	M80-3-57.5(H)-e	7.5	265	287	210	265	230	112	495	1225	182	3/8B	2	15	981	601	190	296	316	336	356	216

*Mounting dimension is compatible with M type (product equipped with totally enclosed fan-cooled IE1 motor). In addition, the motor frame No. is the same, so it is possible to replace with a top runner (equivalent to IE3) motor. However, pay attention to the following. The rotation speed of the motor increases because of its characteristics.

Therefore, adjust the flow rate and use the product so that the current should not exceed the rated current.

*For products equipped with a drip-proof protected motor, there are some types which also require a common base because the frame No. may be different when only the motor is replaced.

Assembly drawing



Note) Total length dimension, approximate mass and terminal box position may be slightly different depending on motor manufacturer.

Dimensions

(Unit: mm)

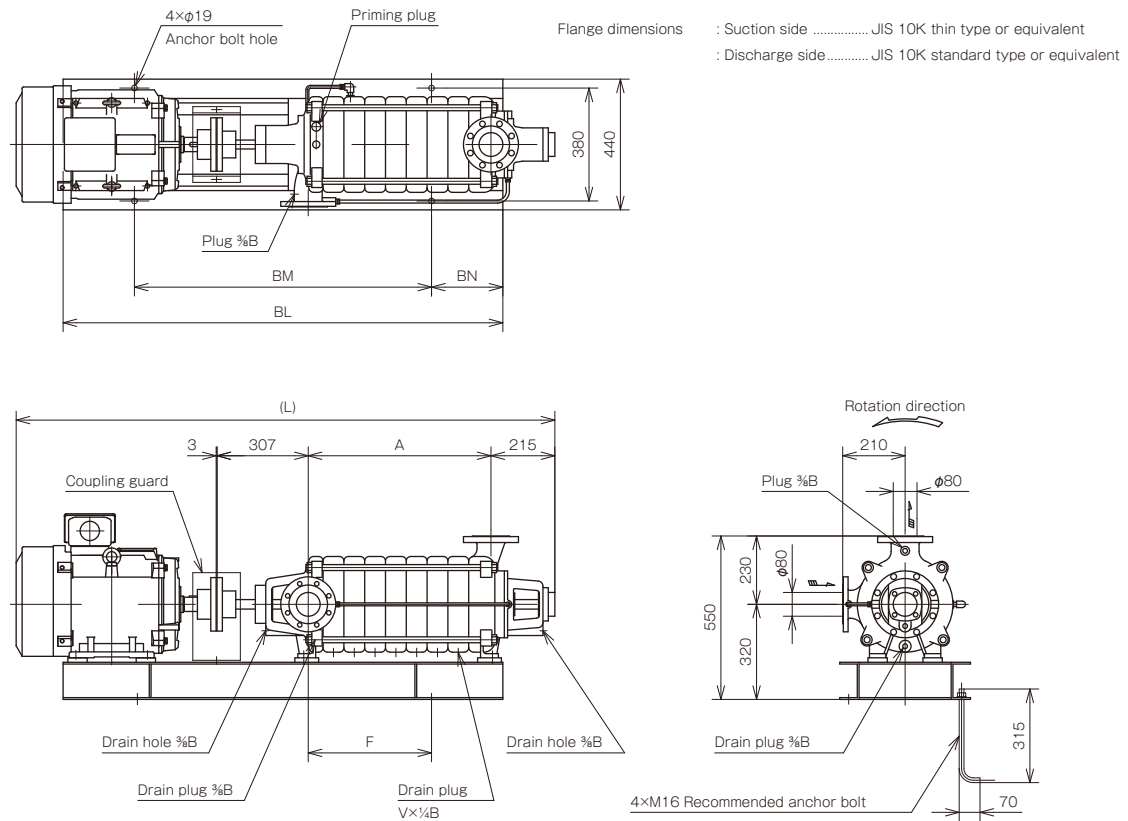
Nominal diameter d	Type	Output kW	Pump / Motor												Common base								Approx mass kg
			A	B	C	D	E	F	H	L	P	T	U	V	BD	BL	BM	BN	BP	BR	BX	BY	
40	M40-5-52.2(H)-e	2.2	281	249	175	210	195	191	405	1110	211	¼B	¼B	4	16	900	564	157	256	256	296	296	144
	M40-6-53.7-e	3.7	334	249	175	210	195	241	405	1178	211	¼B	¼B	5	16	959	639	160	256	286	296	326	170
	M40-7-53.7(H)-e	3.7	387	282	175	220	195	284	415	1264	211	¼B	¼B	6	15	1044	704	170	256	286	296	326	184
	M40-8-53.7(H)-e	3.7	440	282	175	220	195	337	415	1317	211	¼B	¼B	7	15	1097	757	170	256	286	296	326	199
	M40-9-55.5-e	5.5	493	274	175	235	195	370	430	1432	211	¼B	¼B	8	15	1190	810	190	256	316	296	356	248
	M40-10-55.5-e	5.5	546	282	175	235	195	423	430	1493	211	¼B	¼B	9	15	1240	860	190	256	316	296	356	257
50	M50-5-53.7-e	3.7	281	249	175	210	195	188	405	1125	211	¼B	¼B	4	16	905	585	160	256	284	296	324	160
	M50-6-55.5-e	5.5	334	249	175	210	195	241	405	1248	211	¼B	¼B	5	16	995	675	160	256	306	296	346	207
	M50-7-55.5-e	5.5	387	282	175	250	195	284	445	1334	211	¼B	¼B	6	15	1083	743	170	256	316	296	356	225
	M50-8-55.5-e	5.5	440	282	175	250	195	312	445	1387	211	¼B	¼B	7	15	1136	746	195	256	316	296	356	230
	M50-8-57.5-e	7.5	440	282	175	250	195	297	445	1425	211	¼B	¼B	7	15	1174	754	210	256	316	296	356	238
	M50-9-57.5-e	7.5	493	274	175	260	195	340	455	1470	211	¼B	¼B	8	15	1230	790	220	256	316	296	356	251
	M50-10-57.5-e	7.5	546	282	175	235	195	373	430	1531	211	¼B	¼B	9	15	1280	800	240	256	316	296	356	256
65	M65-5-57.5(H)-e	7.5	370	296	195	275	210	223	485	1372	215	⅜B	⅜B	4	15	1099	709	195	296	316	336	356	264
	M65-6-57.5(H)-e	7.5	435	296	195	275	210	288	485	1438	215	⅜B	⅜B	5	15	1164	774	195	296	316	336	356	280
	M65-7-511(H)-e	11	500	296	195	275	210	338	485	1658	215	⅜B	⅜B	6	15	1314	894	210	296	366	336	406	385
	M65-8-511(H)-e	11	565	296	195	285	210	393	495	1723	215	⅜B	⅜B	7	15	1379	939	220	296	366	336	406	410
	M65-9-511(H)-e	11	630	296	195	280	210	438	490	1788	215	⅜B	⅜B	8	15	1444	964	240	296	366	336	406	428
	M65-9-515(H)-e	15	630	296	195	280	210	438	490	1818	215	⅜B	⅜B	8	15	1490	1010	240	296	366	336	406	442
80	M80-4-57.5(H)-e	7.5	335	293	210	265	230	182	495	1335	215	⅜B	⅜B	3	15	1051	671	190	296	316	336	356	256
	M80-4-511(H)-e	11	335	293	210	265	230	182	495	1490	215	⅜B	⅜B	3	15	1136	756	190	296	366	336	406	338
	M80-5-511(H)-e	11	405	293	210	275	230	244	505	1560	215	⅜B	⅜B	4	15	1200	831	195	290	360	330	400	372
	M80-6-515(H)-e	15	475	307	210	285	230	302	515	1674	215	⅜B	⅜B	5	15	1335	915	210	296	366	336	406	401
	M80-7-515(H)-e	15	545	307	210	280	230	344	510	1744	215	⅜B	⅜B	6	16	1410	930	240	300	380	344	424	420

*Mounting dimension is compatible with M type (product equipped with totally enclosed fan-cooled IE1 motor). In addition, the motor frame No. is the same, so it is possible to replace with a top runner (equivalent to IE3) motor. However, pay attention to the following. The rotation speed of the motor increases because of its characteristics.

Therefore, adjust the flow rate and use the product so that the current should not exceed the rated current.

*For products equipped with a drip-proof protected motor, there are some types which also require a common base because the frame No. may be different when only the motor is replaced.

■ Assembly drawing



Note) Total length dimension, approximate mass and terminal box position may be slightly different depending on motor manufacturer.

■ Dimensions

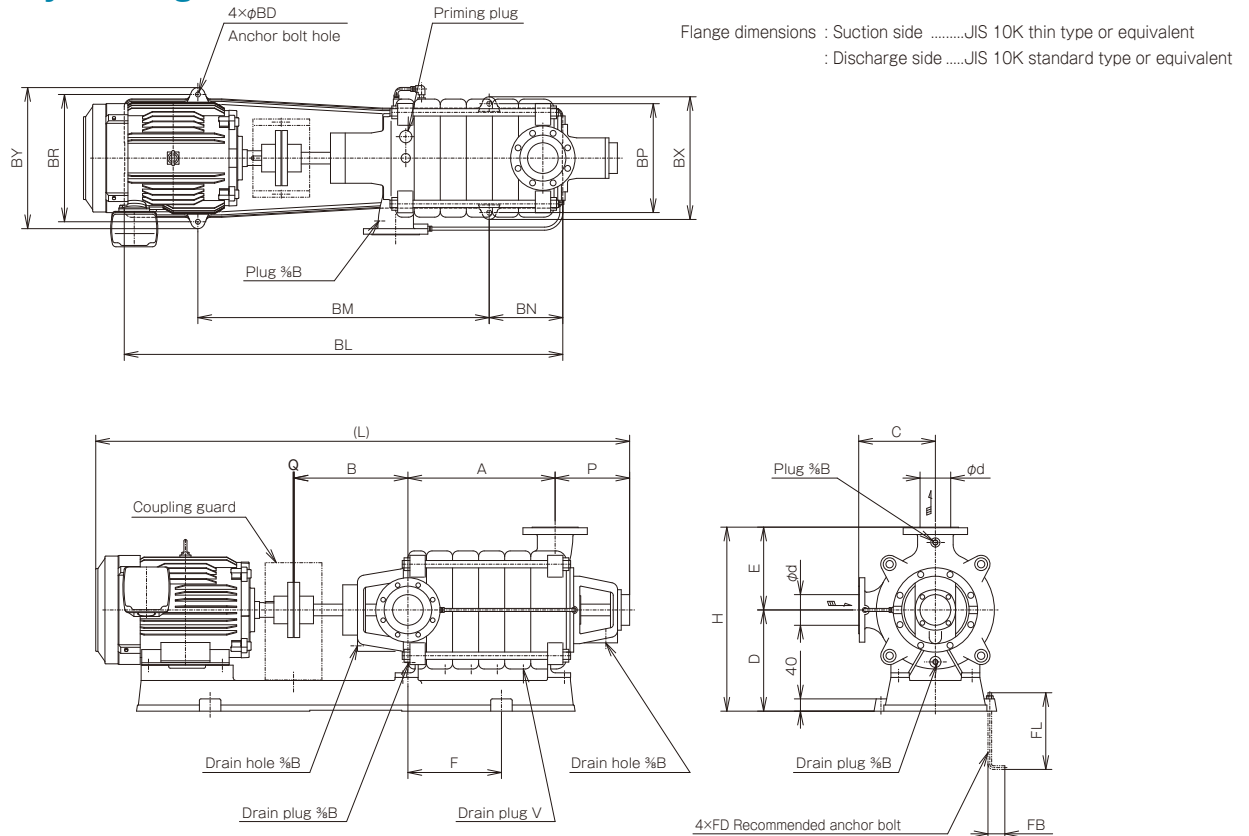
(Unit: mm)

Nominal diameter	Type	Output kW	Pump / Motor				Common base			Approx. mass kg
			A	F	L	V	BL	BM	BN	
80	M80-7-518(H)-e	18.5	545	335	1743	6	1410	910	250	468
	M80-8-518(H)-e	18.5	615	415	1813	7	1480	1000	240	491

*Mounting dimension is compatible with M model (product equipped with totally enclosed fan-cooled IE1 motor). In addition, the motor frame number is the same, so it is possible to replace with a top runner (equivalent to IE3) motor. However, please keep the following in mind. The number of revolutions will increase because of the characteristics of the motor, which may cause the flow rate to exceed the rated current value.

*For products equipped with a drip-proof protected motor, there are some types which also require a common base because the frame No. may be different when only the motor is replaced.

Assembly drawing



Dimensions

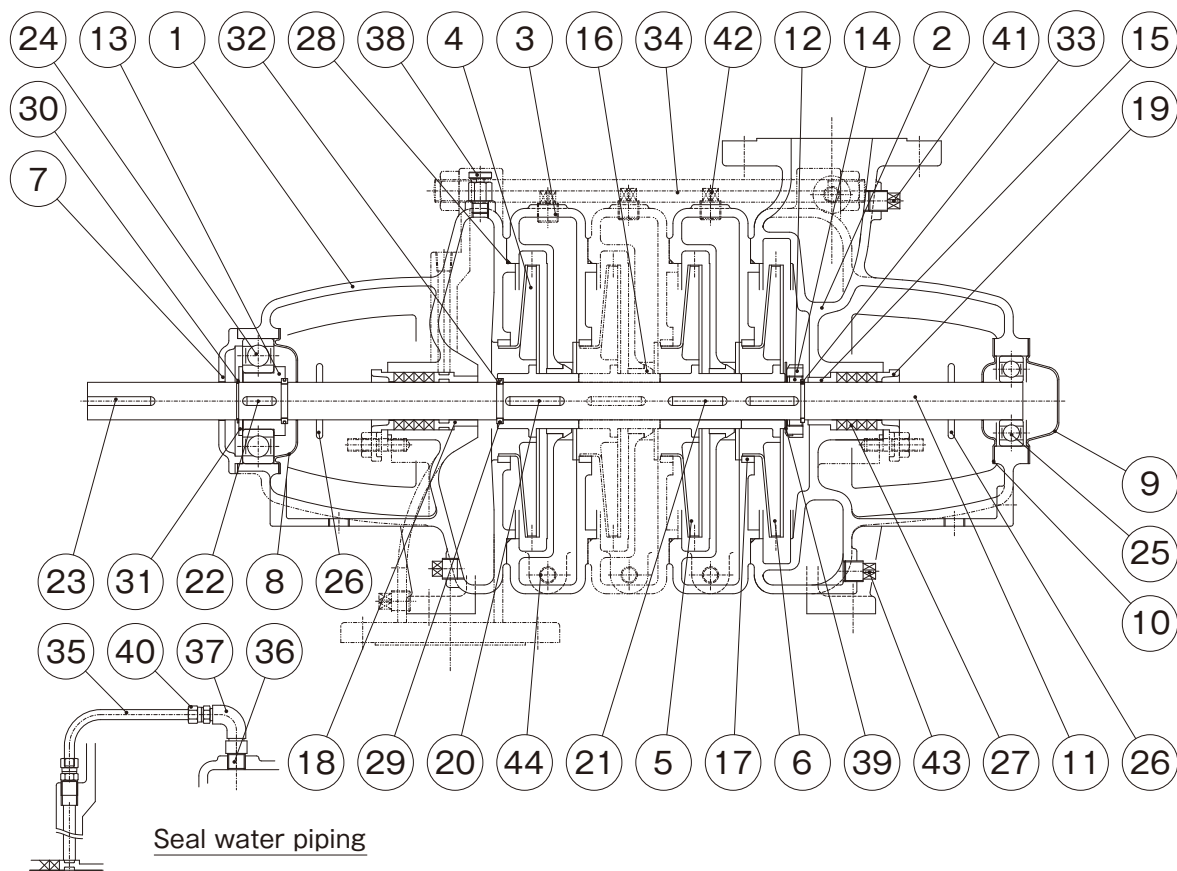
Nominal diameter φ	Type	Output kW	Pump / Motor											Common base								Anchor bolt			Approx. mass kg
			A	B	C	D	E	F	H	L	P	Q	V	BD	BL	BM	BN	BP	BR	BX	BY	FB	FD	FL	
100	M100-2-57.5(H)-e	7.5	225	347	250	300	270	98	570	1306	243	3	1× $\frac{1}{2}$ B	18	1022	642	190	346	316	396	366	55	M12	250	294
	M100-2-511(H)-e	11	225	347	250	300	270	98	570	1461	243	3	1× $\frac{1}{2}$ B	18	1125	727	190	346	376	396	426	55	M12	250	360
	M100-3-515(H)-e	15	310	364	250	310	270	178	580	1593	243	3	2× $\frac{1}{2}$ B	18	1253	863	195	346	366	396	416	55	M12	250	424
	M100-4-518A(H)-e	18.5	395	366	250	330	270	243	600	1680	243	3	3× $\frac{1}{2}$ B	16	1360	892	220	355	415	400	460	55	M12	250	502
	M100-4-518B(H)-e	18.5	395	366	250	330	270	243	600	1680	243	3	3× $\frac{1}{2}$ B	16	1360	892	220	355	415	400	460	55	M12	250	502
	M100-4-522(H)-e	22	395	366	250	330	270	243	600	1680	243	3	3× $\frac{1}{2}$ B	16	1360	892	220	355	415	400	460	55	M12	250	511
	M100-5-522AH-e	22	480	371	250	330	270	305	600	1770	243	3	4× $\frac{1}{2}$ B	16	1430	950	240	355	415	400	460	55	M12	250	554
	M100-5-522B(H)-e	22	480	371	250	330	270	305	600	1770	243	3	4× $\frac{1}{2}$ B	16	1430	950	240	355	415	400	460	55	M12	250	554
125	M100-5-530(H)-e	30	480	371	250	330	270	305	600	1809	243	4	4× $\frac{1}{2}$ B	16	1470	990	240	355	415	400	460	55	M12	250	568
	M125-2-515(H)-e	15	260	351	280	345	300	150	645	1545	257	3	1× $\frac{1}{2}$ B	20	1220	830	195	360	386	410	436	70	M16	315	441
	M125-2-518(H)-e	18.5	260	351	280	345	300	150	645	1544	257	3	1× $\frac{1}{2}$ B	20	1220	830	195	360	425	410	475	70	M16	315	476
	M125-3-522(H)-e	22	360	348	280	345	300	225	645	1641	257	3	2× $\frac{1}{2}$ B	20	1320	880	220	360	425	410	475	70	M16	315	549
	M125-3-530(H)-e	30	360	348	280	345	300	175	645	1680	257	4	2× $\frac{1}{2}$ B	20	1360	820	270	360	425	410	475	70	M16	315	561
	M125-4-530(H)-e	30	460	357	280	345	300	275	645	1789	257	4	3× $\frac{1}{2}$ B	20	1460	920	270	360	420	410	470	70	M16	315	603
150	M125-4-537(H)-e	37	460	357	280	360	300	180	660	1950	257	4	3× $\frac{1}{2}$ B	20	1560	900	370	360	470	416	526	70	M16	315	706
	M150-2-530(H)-e	30	310	367	315	410	350	187	760	1692	300	4	1× $\frac{1}{2}$ B	20	1310	900	205	420	425	470	475	70	M16	315	635
	M150-2-537(H)-e	37	310	367	315	410	350	152	760	1853	300	4	1× $\frac{1}{2}$ B	24	1380	900	240	420	470	480	530	90	M20	400	726
	M150-3-545(H)-e	45	425	415	315	410	350	237	760	2016	300	4	2× $\frac{1}{2}$ B	24	1540	1000	270	420	470	480	530	90	M20	400	834
	M150-3-555(H)-e	55	425	415	315	410	350	222	760	2025	300	4	2× $\frac{1}{2}$ B	20	1570	1000	285	420	520	480	580	70	M16	315	946

*Mounting dimension is compatible with M model (product equipped with totally enclosed fan-cooled IE1 motor). In addition, the motor frame number is the same, so it is possible to replace with a top runner (equivalent to IE3) motor. However, please keep the following in mind. The number of revolutions will increase because of the characteristics of the motor, which may cause the flow rate to exceed the rated current value.

*For products equipped with a drip-proof protected motor, there are some types which also require a common base because the frame No. may be different when only the motor is replaced.

■ Example of sectional drawing

● Nominal diameter 40mm (2 to 4-stage) ● Nominal diameter 50mm (2 to 4-stage)



■ Parts list

No.	Part name	Qty	Material
1	Suction casing	1	FC200
2	Discharge casing	1	FC200
3	Intermediate casing	n-1	FC200
4	First stage impeller	1	SUS304
5	Impeller	n-2	SUS304
6	Final stage impeller	1	SUS304
7	Bearing cover	1	FC200
8	Bearing cover	1	SS400
9	Bearing cover	1	SS400
10	Bearing cover	1	SS400
11	Main shaft	1	SUS403
12	Spacer	1	CAC406
13	Bearing holder	1	FC200
14	Impeller nut	1	SUS304
15	Packing bushing	1	CAC406
16	Intermediate bushing	n-1	CAC406
17	Liner ring	n	CAC406
18	Lantern ring	1	CAC406
19	Packing retainer	2	CAC406
20	Key	n-1	SUS304
21	Key	1	SUS304
22	Key	1	S45C

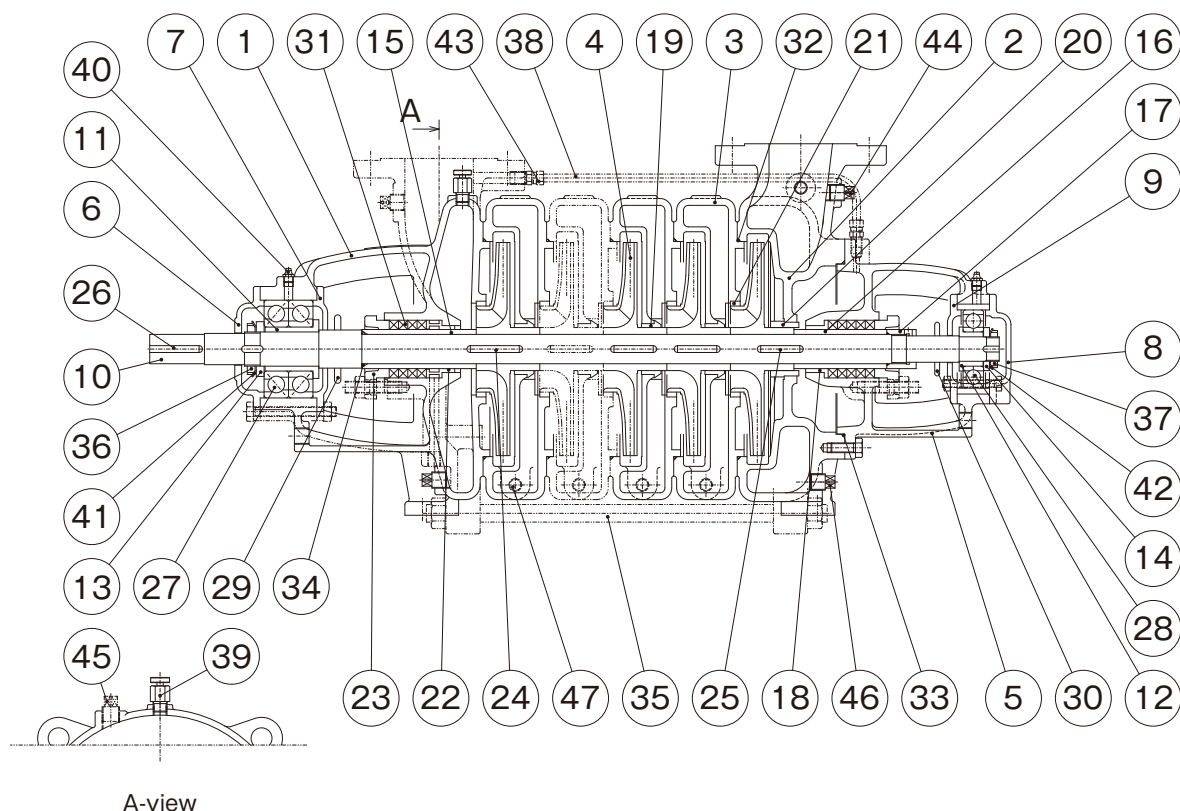
n: Number of stages

No.	Part name	Qty	Material
23	Key	1	S45C
24	Ball bearing	1	SUJ2
25	Ball bearing	1	SUJ2
26	Deflector	2	CR
27	Gland packing	9	-
28	O-ring	n	NBR
29	O-ring	2	NBR
30	Retaining ring	1	SUP3
31	Supporter ring	1	SK3
32	Split ring	2	SUS304
33	Split ring	1	SUS304
34	Through bolt	4	SS400
35	Sealing pipe	1	SUS304
36	Nipple	1	SS400
37	Elbow	1	FCMB
38	Air vent plug	2	C3604
39	Washer	1	SUS304
40	Conduit joint	2	S45C
41	Plug	2	SWCH
42	Plug	n-1	SWCH
43	Drain plug	2	SWCH
44	Drain plug	n-1	SWCH

*The materials in the table above may be equivalents.

■ Example of sectional drawing

●Nominal diameter 100mm (3-stage or more) ●Nominal diameter 125mm, 150mm



■ Parts list

n: Number of stages

No.	Part name	Qty	Material
1	Suction casing	1	FC200
2	Discharge casing	1	FC200
3	Intermediate casing	n-1	FC200
4	Impeller	n	CAC902
5	Bearing case	1	FC200
6	Bearing cover	1	FC200
7	Bearing cover	1	FC200
8	Bearing cover	1	FC200
9	Bearing cover	1	FC200
10	Main shaft	1	S45C
11	Bearing holder	1	FC200
12	Bearing holder	1	FC200
13	Bearing collar	1	SS400
14	Bearing collar	1	SS400
15	Shaft sleeve	1	CAC406
16	Shaft sleeve	1	CAC406
17	Sleeve nut	1	CAC406
18	Packing bushing	1	CAC406
19	Intermediate bushing	n-1	CAC406
20	Discharge bushing	1	CAC406
21	Liner ring	n	CAC406
22	Lantern ring	1	CAC406
23	Packing retainer	2	CAC406
24	Key	1	S45C

No.	Part name	Qty	Material
25	Key	n-1	S45C
26	Key	1	S45C
27	Angular bearing	1	SUJ2
28	Ball bearing	1	SUJ2
29	Deflector	1	CR
30	Deflector	1	CR
31	Gland packing	9	-
32	O-ring	n	NBR
33	O-ring	1	NBR
34	O-ring	2	NBR
35	Through bolt	4	SS400
36	Bearing nut	1	SS400
37	Bearing nut	1	SS400
38	Balance pipe	1	SUS304
39	Air vent plug	2	C3604
40	Grease nipple	2	C3604
41	Bearing washer	1	SS400
42	Bearing washer	1	SS400
43	Conduit joint	2	S45C
44	Plug	2	SWCH
45	Plug	1	SWCH
46	Drain plug	2	SWCH
47	Drain plug	n-1	SWCH

*The materials in the table above may be equivalents.

This image shows a full page of a notebook or memo pad. At the very top left, the word "MEMO" is printed in a large, bold, black sans-serif font. A solid horizontal line runs across the entire width of the page just below the title. The rest of the page is filled with horizontal ruling lines. Each ruling unit consists of a solid grey line followed by two dashed grey lines, creating a pattern of wide, open spaces for writing. This pattern repeats down to the bottom edge of the page.



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