

VERTICAL SUMP PUMP

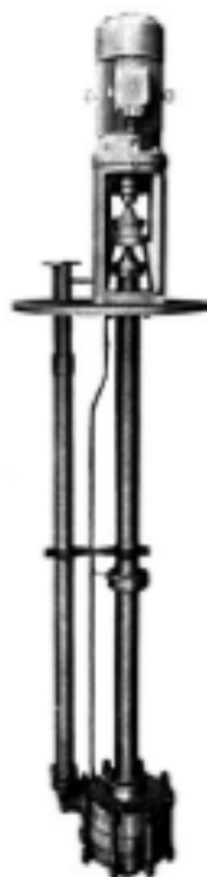
For Process and General Industrial Services

Models VPS / VPSS / VPW

API610

API682

「Model ○○○」in this catalog is our mode code.



【Listed items】

These products may fall under "the goods listed in the Export Trade Control Order of Japan". Export of such products will be required the export license through the Minister of Economy, Trade and Industry.

VERTICAL SUMP PUMP

For Process and General Industrial Services

Models VPS / VPSS / VPW

API610

API682

EBARA MODEL VPS, VPSS and VPW VERTICAL SUMP PUMPS have been widely used in petroleum refineries, for the petrochemical industry, and general industrial services.

Applications

- Petroleum Refineries
- Petrochemical Industries
- General Industrial Services

Ratings

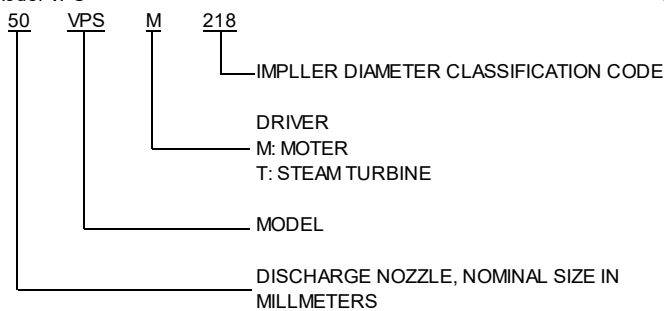
Model	VPS	VPSS	VPW
Capacity	upto 200m ³ /h (880 U.S.gpm)	upto 200m ³ /h (880 U.S.gpm)	upto 200m ³ /h (880 U.S.gpm)
Head	upto 80m (260 ft)	upto 100m (330 ft)	upto 35m (115 ft)
Temperature	-0 degC~+120 degC (32 degF~+250 degF)	-40 degC~+200 degC (-40 degF~+390 degF)	-40 degC~+200 degC (-40 degF~+390 degF)
Flange Rating	ASME Class 150lb as standard Others are also available.	ASME Class 150lb as standard Others are also available.	ASME Class 150lb as standard Others are also available.
Impeller Type	Open or Semi Open	Enclosed	Enclosed

Features

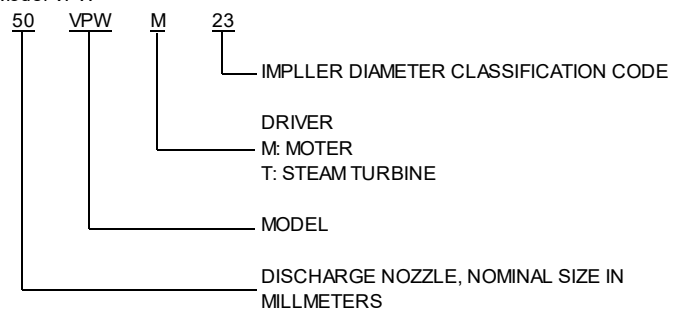
- Vertical, Submerged, Radial Split, Closed Impeller (Model : VPSS, VPW), Semi-Open Impeller (Model : VPS)
- Small installation space, High reliability
- The design is API 610 VS4 sump pump and API 682 specifications.

Designation

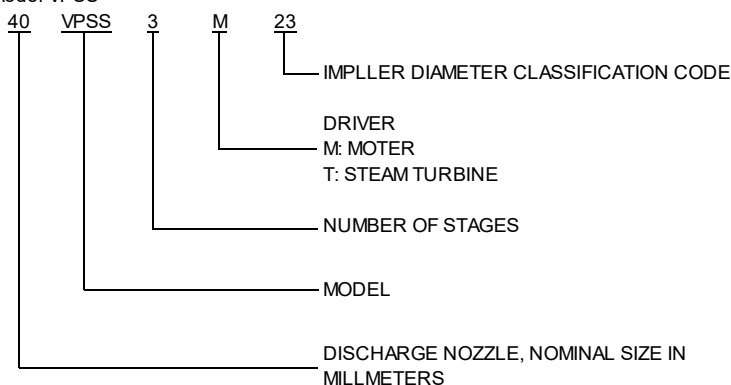
Model VPS



Model VPW

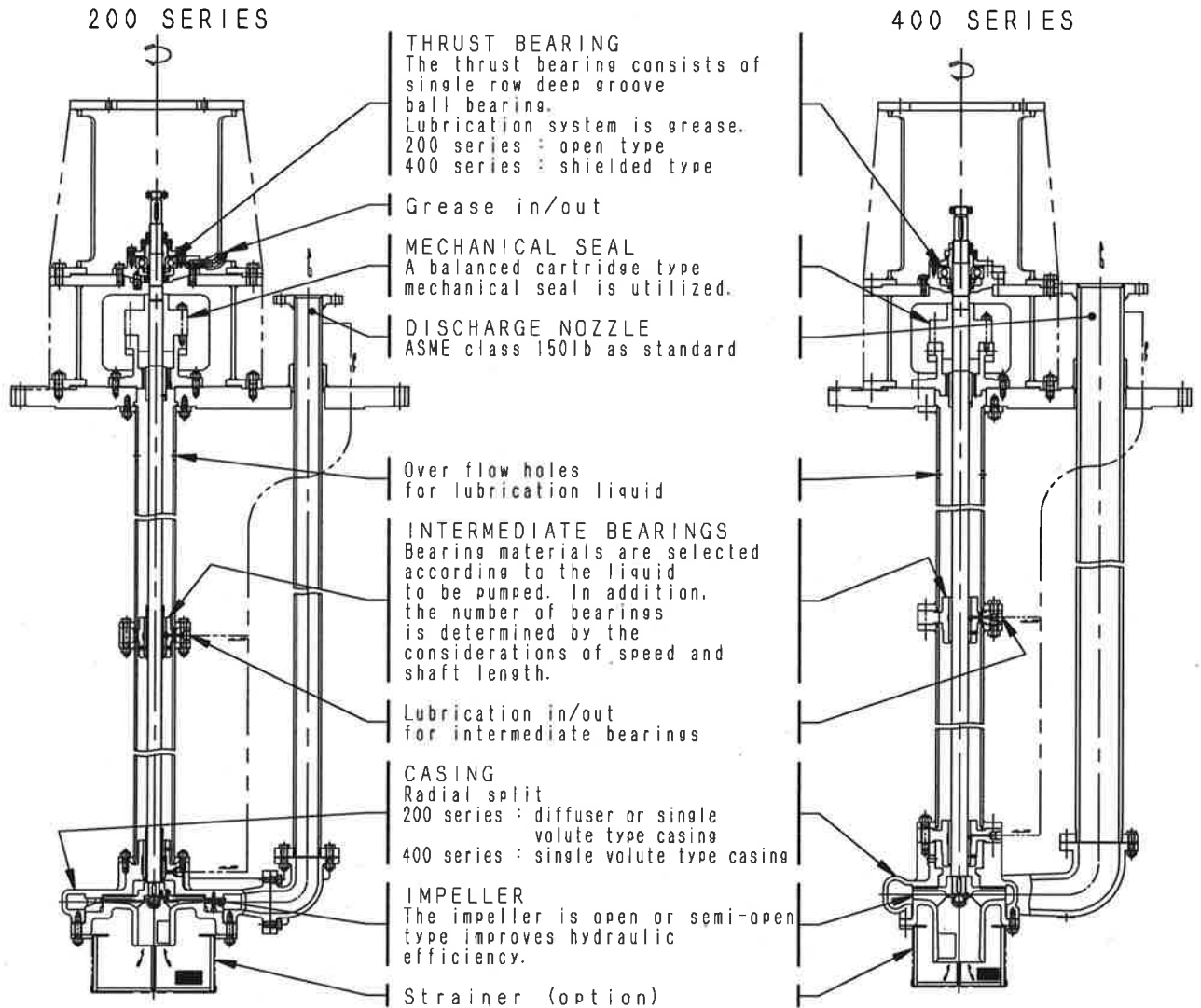


Model VPSS



CONSTRUCTION

[図面管理登録済]



METALLURGY

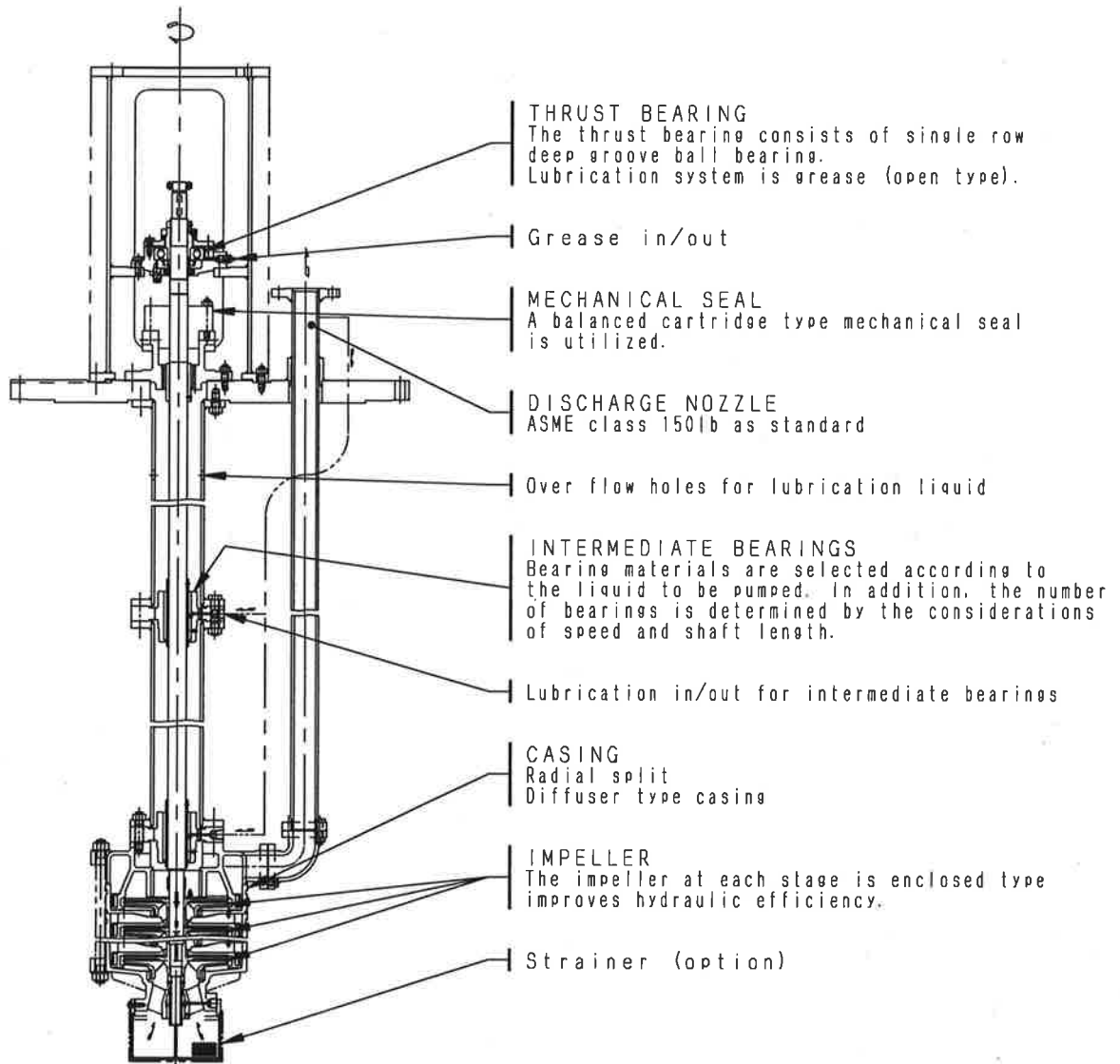
Name of parts	Materials JIS / ASTM eq.			
	Cast iron	Carbon steel	304 stainless steel	316 stainless steel
Casing	FC250 / A278 35	SCPH2 / A216M WCB	SCS13A / A351M CF8	SCS14A / A351M CF8M
Impeller	FC200 / A48 30	SCS1T1 / A743M CA15	SCS13A / A743M CF8	SCS14A / A743M CF8M
Shaft	SUS403 / A276 403	SUS403 / A276 403	SUS304 / A276 304	SUS316 / A276 316
Sleeve for Mechanical seal	SUS316 / A276 316	SUS316 / A276 316	SUS316 / A276 316	SUS316 / A276 316

Note : Other materials supplied on request.

DWG. No.	REV.
S8-1334077	0

CONSTRUCTION

[図面管理登録済]



METALLURGY

Name of parts	Materials JIS / ASTM eq.			
	Cast iron	Carbon steel	304 stainless steel	316 stainless steel
Top / Bottom casing	FC250 / A278 35	SCPH2 / A216M WCB	SCS13A / A351M CF8	SCS14A / A351M CF8M
Intermediate casing	FC250 / A278 35	SFVC2A / A266 2	SUSF304 / A182 F304	SUSF316 / A182 F316
Impeller	FC200 / A48 30	SCS1T1 / A743M CA15	SCS13A / A743M CF8	SCS14A / A743M CF8M
Shaft	SUS403 / A276 403	SUS403 / A276 403	SUS304 / A276 304	SUS316 / A276 316
Case wear ring	FCD400 / A536 Gr60-40-18	SUS420J1 / A276 420	SUS304 / A276 304	SUS316 / A276 316
Impeller wear ring	SUS420J2 / A276 420	SUS420J2 / A276 420	SUS304 / A276 304	SUS316 / A276 316
Sleeve for Mechanical seal	SUS316 / A276 316	SUS316 / A276 316	SUS316 / A276 316	SUS316 / A276 316

Note : Other materials supplied on request.

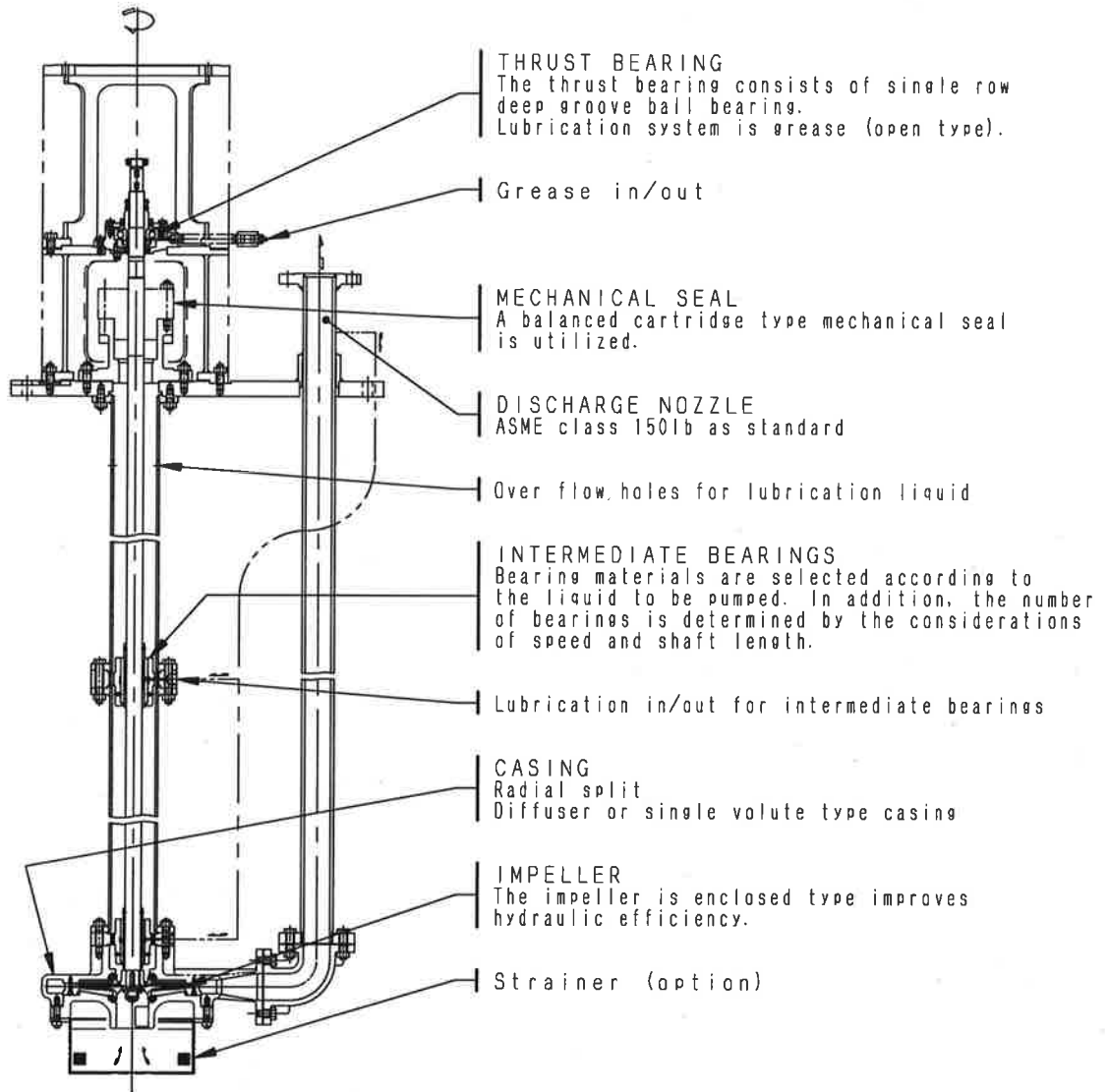
DWG. No.	REV.
S8-1334078	0



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CONSTRUCTION

[図面管理登録済]



METALLURGY

Name of parts	Materials JIS / ASTM eq.			
	Cast iron	Carbon steel	304 stainless steel	316 stainless steel
Casing	FC250 / A278 35	SCPH2 / A216M WCB	SCS13A / A351M CF8	SCS14A / A351M CF8M
Impeller	FC200 / A48 30	SCS1T1 / A743M CA15	SCS13A / A743M CF8	SCS14A / A743M CF8M
Shaft	SUS403 / A276 403	SUS403 / A276 403	SUS304 / A276 304	SUS316 / A276 316
Case wear ring	FCD400 / A536 Gr60-40-18	SUS420J1 / A276 420	SUS304 / A276 304	SUS316 / A276 316
Impeller wear ring	SUS420J2 / A276 420	SUS420J2 / A276 420	SUS304 / A276 304	SUS316 / A276 316
Sleeve for Mechanical seal	SUS316 / A276 316	SUS316 / A276 316	SUS316 / A276 316	SUS316 / A276 316

Note : Other materials supplied on request.

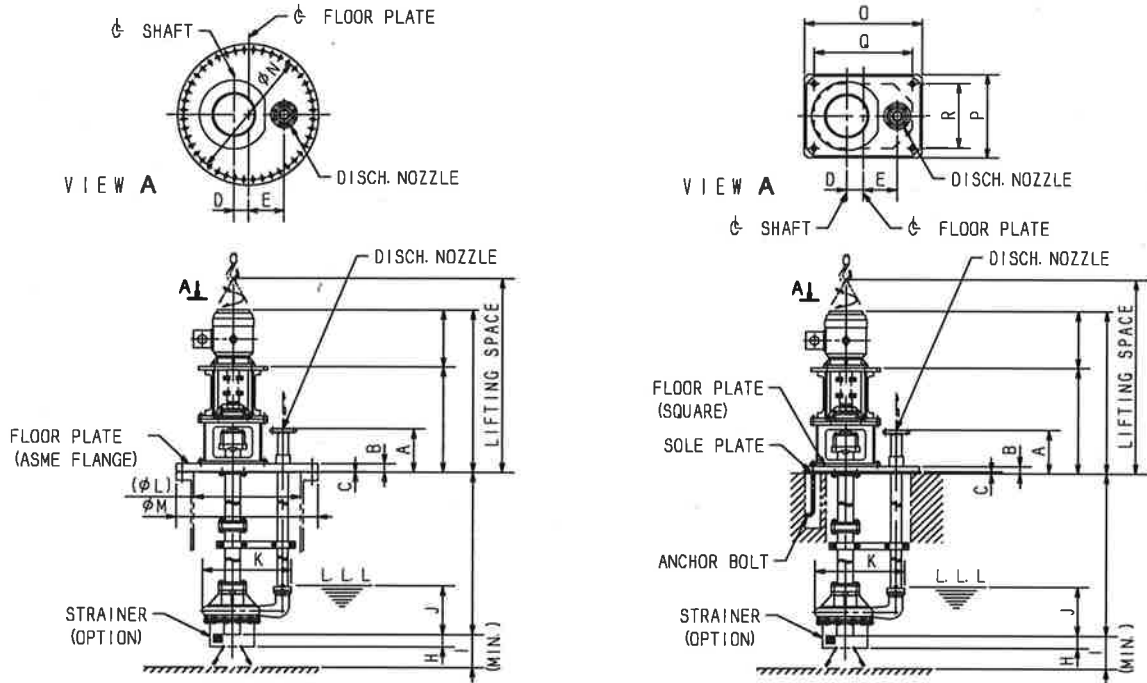
DWG. No.	REV.
S8-1334079	0



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DIMENSIONS

[図面管理登録済]



[FLOOR PLATE : ASME FLANGE TYPE] *DIMENSION B IS INCLUDED DIMENSION C (mm)

PUMP SIZE	A	B	C	D	E	H	I	J	K	L	M	N	FLOOR PLATE
50	218	250	48.1	2	85	205	87	150	300	462	590	815	24° ASME 150LB RF
50	223	250	45	2	120	220	106	150	300	595	730	885	30° ASME 150LB RF
50	222	250	45	2	120	220	106	150	300	595	730	885	30° ASME 150LB RF
50	220	250	45	2	120	220	106	150	300	595	730	885	30° ASME 150LB RF
50	419	250	43.3	2	80	150	74	100	200	400	500	700	20° ASME 150LB RF
50	424	250	48.1	2	75	165	80	120	200	421	590	815	24° ASME 150LB RF
50	427	250	48.1	2	85	205	71	120	250	512	590	815	24° ASME 150LB RF
80	421	250	48.1	2	105	165	87	120	230	504	590	815	24° ASME 150LB RF
80	425	250	48.1	2	110	180	80	120	230	537	590	815	24° ASME 150LB RF
80	429	250	48.1	2	90	200	92	120	230	560	590	815	24° ASME 150LB RF
100	419	250	45	2	120	220	65	150	280	607	730	885	30° ASME 150LB RF
100	423	250	45	2	120	220	60	150	280	620	730	885	30° ASME 150LB RF
100	429	250	45	2	120	220	75	150	280	638	730	885	30° ASME 150LB RF
100	436	250	45	2	107	253	65	150	280	685	730	885	30° ASME 150LB RF
125	423	300	45	2	130	243	67	200	300	673	730	885	30° ASME 150LB RF
125	429	300	45	2	130	243	70	200	300	688	730	885	30° ASME 150LB RF
125	436	300	49.7	2	150	283	65	200	300	779	830	1005	34° ASME 150LB RF
150	423	300	52.9	2	165	255	77	230	320	774	880	1055	36° ASME 150LB RF
150	429	300	52.9	2	165	255	75	230	320	785	880	1055	36° ASME 150LB RF
150	436	300	52.9	2	160	290	70	230	320	846	880	1055	36° ASME 150LB RF

[FLOOR PLATE : SQUARE TYPE] (mm)

PUMP SIZE	A	B	C	D	E	H	I	J	K	Q	P	Q	R	
50	218	260	42	10	70	220	87	150	300	462	760	630	650	520
50	223	260	46	10	80	260	106	150	300	595	820	660	710	550
50	222	260	46	10	80	260	106	150	300	595	820	660	710	550
50	220	260	46	10	80	260	106	150	300	595	820	660	710	550
50	419	260	42	10	83	147	74	100	200	400	555	470	475	390
50	424	260	42	10	75	165	80	120	200	421	580	470	500	390
50	427	260	42	10	95	195	71	120	250	512	670	480	560	370
80	421	260	42	10	105	165	87	120	230	504	630	520	550	440
80	425	260	42	10	105	185	80	120	230	537	685	520	575	410
80	429	260	42	10	90	200	92	120	230	560	710	520	600	410
100	419	260	46	10	120	220	65	150	280	607	820	660	710	550
100	423	260	46	10	120	220	60	150	280	620	820	660	710	550
100	429	260	46	10	120	220	75	150	280	638	820	660	710	550
100	436	260	46	10	107	253	65	150	280	685	860	660	750	550
125	423	310	46	10	130	243	67	200	300	673	870	670	760	560
125	429	310	46	10	130	243	70	200	300	688	870	670	760	560
125	436	310	53	10	150	283	65	200	300	779	1020	780	890	650
150	423	310	53	10	165	255	77	230	320	774	980	720	850	590
150	429	310	53	10	165	255	75	230	320	785	980	720	850	590
150	436	310	53	10	150	300	70	230	320	846	1090	840	960	710

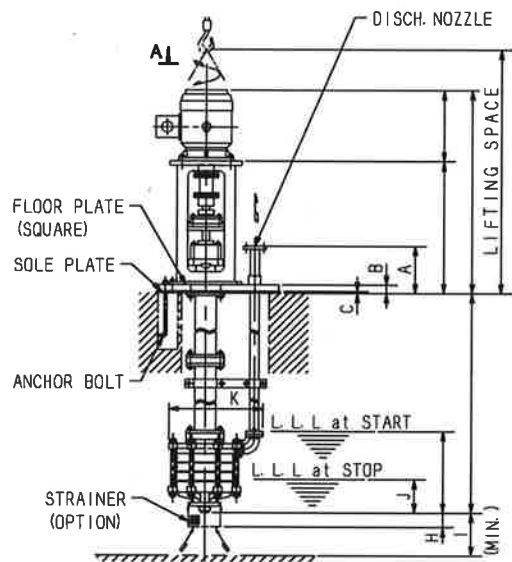
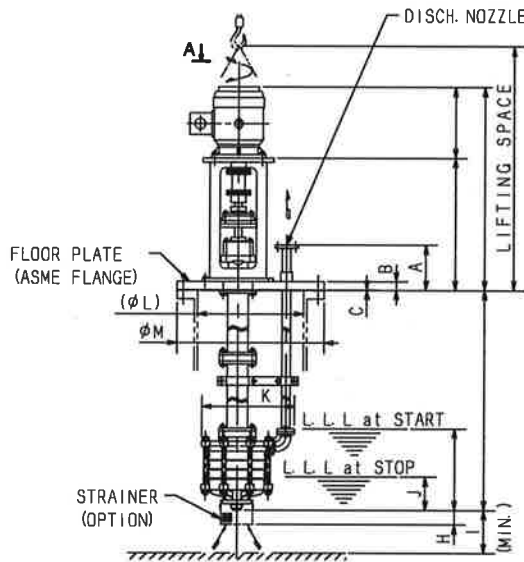
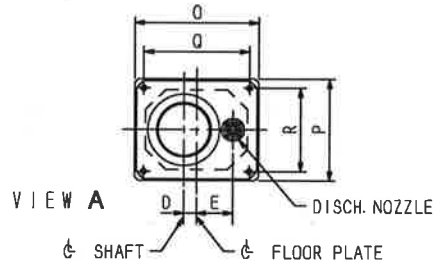
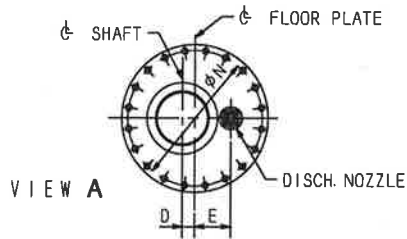
*: DISCHARGE NOZZLE 6"

Notes:
 Dimensions are in mm and for guidance only.
 Certified drawings will be provided in all cases of actual construction.

DWG. No.	REV.
S8-1334080	0

DIMENSIONS

[図面管理登録済]



[FLOOR PLATE : ASME FLANGE TYPE] *DIMENSION B IS INCLUDED DIMENSION C (mm)

PUMP SIZE	A	B	C	D	E	H	I	J	K	L	M	N	FLOOR PLATE	
40	23	250	48.1	2	70	200	80	150	250	500	590	815	749.3	24" ASME 150LB RF
50	23	250	48.1	2	70	210	80	150	260	530	590	815	749.3	24" ASME 150LB RF
80	29	250	45	2	80	220	80	180	300	630	730	885	846.1	30" ASME 150LB RF
100	29	250	45	2	80	220	120	220	350	645	730	885	846.1	30" ASME 150LB RF
* 125	29	300	49.7	2	115	237.7	120	250	400	720	830	1005	957.3	34" ASME 150LB RF

[FLOOR PLATE : SQUARE TYPE] (mm)

PUMP SIZE	A	B	C	D	E	H	I	J	K	Q	P	Q	R	
40	23	260	46	10	70	200	80	150	250	500	680	560	580	460
50	23	260	46	10	70	210	80	150	260	530	700	580	580	460
80	29	260	46	10	80	220	80	180	300	630	820	660	710	550
100	29	260	46	10	80	220	120	220	350	645	820	660	710	550
* 125	29	310	46	10	115	237.7	120	250	400	720	1020	780	890	650

*: DISCHARGE NOZZLE 6"

Notes:
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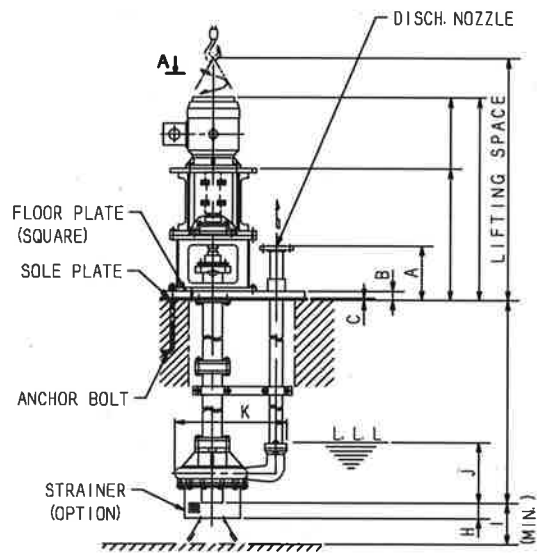
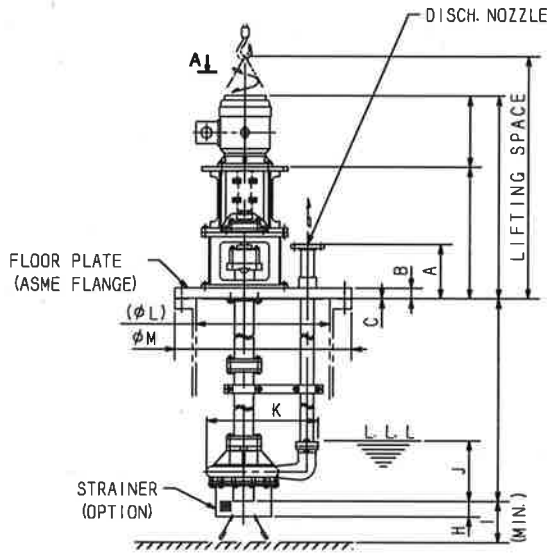
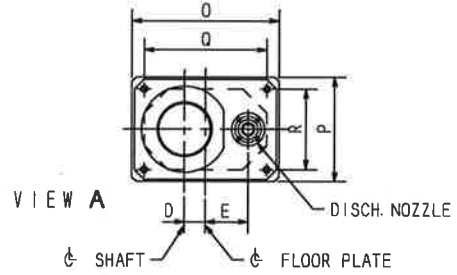
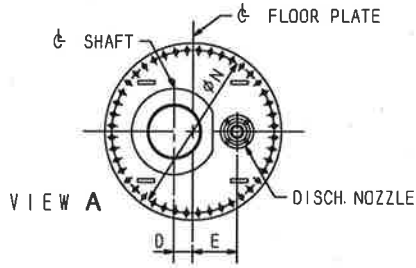
DWG. No.	REV.
S8-1334081	0



EBARA CORPORATION

DIMENSIONS

[図面管理登録済]



[FLOOR PLATE : ASME FLANGE TYPE] *DIMENSION B IS INCLUDED DIMENSION C (mm)

PUMP SIZE	A	B	C	D	E	H	I	J	K	L	M	N	FLOOR PLATE	
40	23	250	48.1	2	65	175	75	120	230	425	590	815	749.3	24" ASME 150LB RF
50	23	250	48.1	2	75	185	75	120	230	450	590	815	749.3	24" ASME 150LB RF
50	29	250	48.1	2	60	200	75	120	230	475	590	815	749.3	24" ASME 150LB RF
50	225	250	45	2	125	280	136	180	300	700	730	885	846.1	30" ASME 150LB RF
50	229	250	45	2	125	280	136	180	300	700	730	885	846.1	30" ASME 150LB RF
80	23	200	48.1	2	75	205	94	120	230	515	590	815	749.3	24" ASME 150LB RF
80	225	250	45	2	125	265	136	180	300	702	730	885	846.1	30" ASME 150LB RF
80	29	250	48.1	2	90	210	94	120	230	560	590	815	749.3	24" ASME 150LB RF
100	23	250	45	2	105	195	75	150	250	560	730	885	846.1	30" ASME 150LB RF
100	29	250	45	2	105	195	75	150	250	590	730	885	846.1	30" ASME 150LB RF

[FLOOR PLATE : SQUARE TYPE] (mm)

PUMP SIZE	A	B	C	D	E	H	I	J	K	O	P	Q	R	
40	23	260	46	10	65	175	75	120	230	425	710	520	600	410
50	23	260	46	10	75	185	75	120	230	450	710	520	600	410
50	29	260	46	10	60	200	75	120	230	475	710	520	600	410
50	225	260	46	10	125	280	136	180	300	700	840	680	710	550
50	229	260	46	10	125	280	136	180	300	700	840	680	710	550
80	23	260	46	10	75	205	94	120	230	515	710	520	600	410
80	225	260	46	10	125	265	136	180	300	702	840	680	710	550
80	29	260	46	10	90	210	94	120	230	560	710	520	600	410
100	23	260	46	10	105	195	75	150	250	560	820	660	710	550
100	29	260	46	10	105	195	75	150	250	590	820	660	710	550

Notes:
 Dimensions are in mm and for guidance only.
 Certified drawings will be provided in all cases of actual construction.

DWG. No.	REV.
S8-1334082	0



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The Products described herein fall under "the goods listed in row 16 of the appended table 1 of the Export Trade Control Order of Japan" , so in case of export of such Products, you need to confirm "use" and "purchaser and/or end-user" and, as case may be, obtain the approval of the Minister of Economy, Trade and Industry. (Please confirm these conditions on your own.) Furthermore, some of the Products fall under row 1-15 of the appended table 1 (listed items). In case of export of these listed items. you are required to obtain the export license from the Minister of Economy, Trade and Industry. For more information, please contact our sales office located near you.

All specifications are subject to change without notice.