

**Deep well vertical pumps
Main engine lubricating oil pump**

1. Fields of Application

BEV are vertical multistage centrifugal pumps designed for deep well, ditches and tanks to pump clean liquids without any abrasives or solid particles.

BEV-LO are vertical multistage centrifugal pumps designed for main engine lubrication service.

Such deep well line shaft turbine pumps are often used for irrigation, mainly in areas where no electric power is available (thus the engine driven option) and the water table is at fairly low level.

Other typical applications would be:

- Water supply in urban and rural areas
- Fire fighting sets
- Industry
- Water raising for reservoirs and channels

Check Application sketches in paragraph 15

2. Operating Data

		50 Hz	60 Hz
Capacity, max.	[m ³ /h]	2200	2700
Head, max.	[m]	350	350
Operating temp., max.	[°C]	120	120
Operating temp., min.	[°C]	-10	-10
Operating pressure, max.	[bar]	40	40
Operating speed, max.	[rpm]	3000 (1)	3600 (1)
Max. total pump length	[m]	100 (2)	100 (2)

(1) Max. speed depending on pump size or BEV-LO serie.

(2) Length for speed 1800 rpm

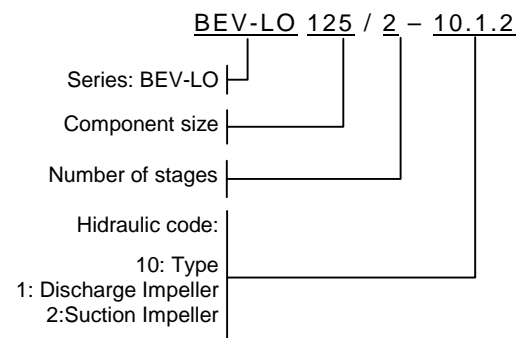
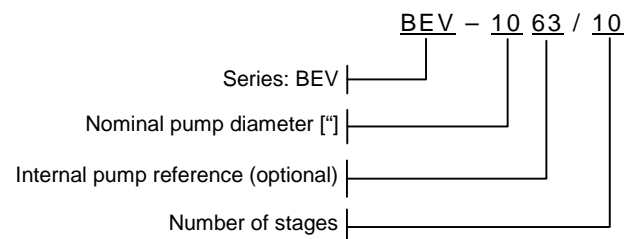
For any specific application beyond these limits, please consult KSB ITUR. All data given in this document are for fully standard construction

3. Design

Radially-split vertical multistage pump casing. Closed impeller with diffuser. Strainer in suction.

Manufactured in nominal diameters of 6"-8"-10"-12"-14"-16"-20"-22".

4. Designation



5. Materials

Denomination	Ref.	Material variant (1)				
		00	01	03	09	21
Suction, discharge casing	106,107	EN-GJL-250	EN-GJL-250	CC491K-GS	A351 GR CF3M	EN-GJL-250
Stage casing, pump bowl	108,11	EN-GJL-250	EN-GJL-250	CC491K-GS	A351 GR CF3M	EN-GJL-250
Pump shaft	210, 211	AISI-431B	AISI-316L	1.4404, 1.4462 or A276 XM-19 (2)		1.4057+QT800 (3)
Intermediate drive shaft	212	C45 or 1.4057+QT800	-----	1.4404, 1.4462 or A276 XM-19 (2)		C45 or 1.4057+QT800
Drive shaft	213	1.4057+QT800	-----	1.4404	1.4404	1.4057+QT800
Discharge head	115	EN-GJL-250(3)	EN-GJL-250 (4)	CC491K-GS	A351 GR CF3M /1.4404 + ST(5)	EN-GJL-250 (4)
Suction strainer	143	1.4404	-----	AISI-316L		
Impeller	230	EN-GJL-250(6)	CC480K-GS	CC480K-GS	A743 GR CF3M	CC480K-GS
Diffuser	171	-----	EN-GJL-250	-----	-----	EN-GJL-250
Wear ring (7)	502	CC493K-GC	1.4138	CC493K-GC	A743 GR CF3M	CC493K-GC
Pump friction bearing bush	545	CC493K-GC(8)	-----	CC493K-GC		
Column friction bearing bush	545	ST + CR(9)	-----	1.4404 + CR(9)		ST + CR(9)
Intermediate piping	712	ST		1.4404	1.4404	ST

(1) Material variants depending on pump type/size/execution:

	00	01	03	09	21
BEV	Not available for pump sizes 6685A and 6685B	-----	Not available for pump sizes 14D, 16D, 20B, 22B	Only available for pump sizes 14D, 16D, 20B,	Available for all pump sizes
BEV-LO	-----	Available for all pump sizes	-----	-----	Available for all pump sizes

(2) Material depending on power to be transmitted and pump size

(3) Material variant for BEV-LO=1.4404

(4) Except for welded discharge head size 12/20 and 16/24. In such case, ST

(5) CF3M for casted discharge head size 10/20. 1.4404 + ST for welded discharge head sizes 12/20 and 16/24

(6) RG5 for pump size 6685A, 6685B

(7) For pump sizes 14D, 16D and 20B and ex.09, material variant is A890 GR 1B/ Wear ring in ex.21 in BEV-LO = ex.01

(8) Except friction bearing bushes located in the discharge casing for pump size 22B. In such case, AISI-316 + GRAF

(9) CR= Neopren or cloropren (if pumped fluid is incompatible, ask KSB ITUR for option with bushes in bronze)

For 50, 60 and 63mm Ø intermediate shafts, rubber instead of CR and besides 1.4404 for stainless execution. For these same shaft dimensions and 16" column size, bush material 1.4404 + GRAF.

Key to Materials

Code	Description	Other equivalents
EN-GJL-250	Grey cast iron	EN 1561: JL1040 (Former GG-25)
ST	Carbon steel	F-111
C45	Tempering steel	F-114
1.4401	Chrome nickel molybdenum	AISI-316
1.4404	Hot rolled chrome nickel molybdenum	AISI-316L
1.4462	Stainless steel	AISI-329
1.4138	Corrosion resistant steel casting	SEW-410
1.4057+QT800	Chrome nickel steel	AISI-431B
A351 GR CF3M	Casted chrome nickel molybdenum steel	CF3M
A890 GR 1B	Austenitic stainless steel (0,07% C, Cu)	CD4MCUN
A276 XM-19, 1.3964	High strength stainless steel	NITRONIC 50HS
CC491K-GC	Bronze	RG-5
CC493K-GC	Bronze	RG-7
CC480K-GS	Bronze	SN-10

6. Components
6.1 Shaft Seal

BEV: Mechanical seal and Packing

BEV-LO: Mechanical seal

6.2 Drive

IEC frame electric motor IM V1 (3011) or internal combustion engine.

6.3 Bearings / Lubrication

Pump shaft and the intermediate transmission shafts rotate on friction bearing bushes lubricated by the pumped liquid.

Drive and gear head shafts (in case of internal combustion engine) rotate on bearings lubricated with oil or grease, depending on coupling system size.

6.4 Coupling

Flexible coupling with electrical motor and cardan joints in case of internal combustion engine.

Coupling Guard: Transparent plastic protections are supplied as standard. Metallic protections can be supplied as option.

6.5 Base Plate

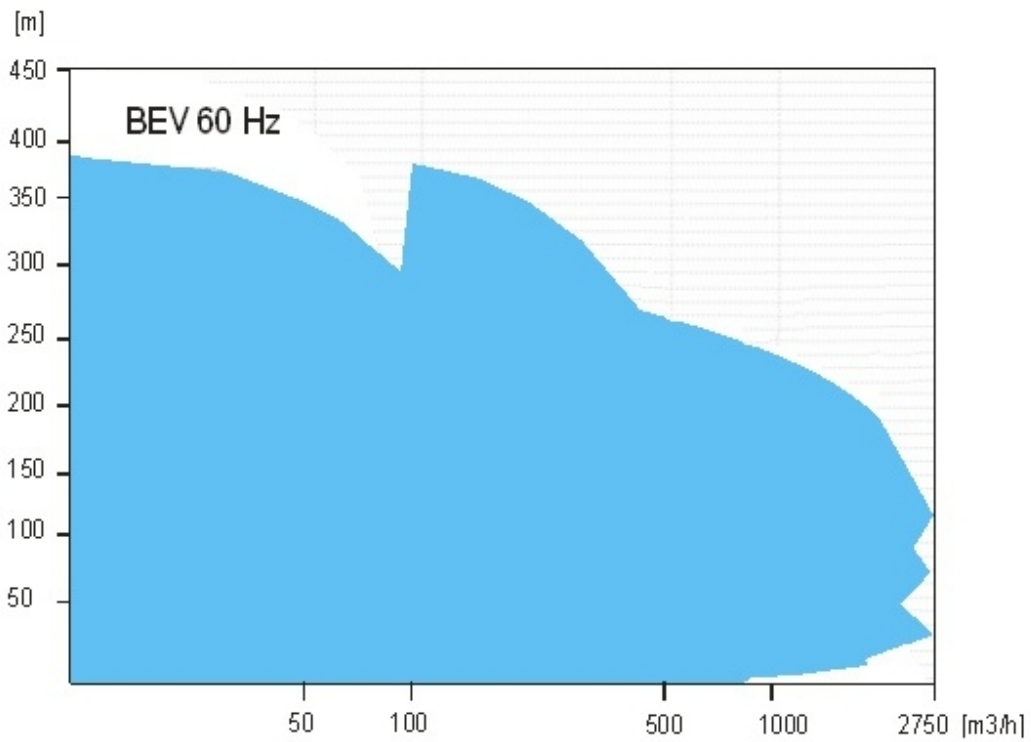
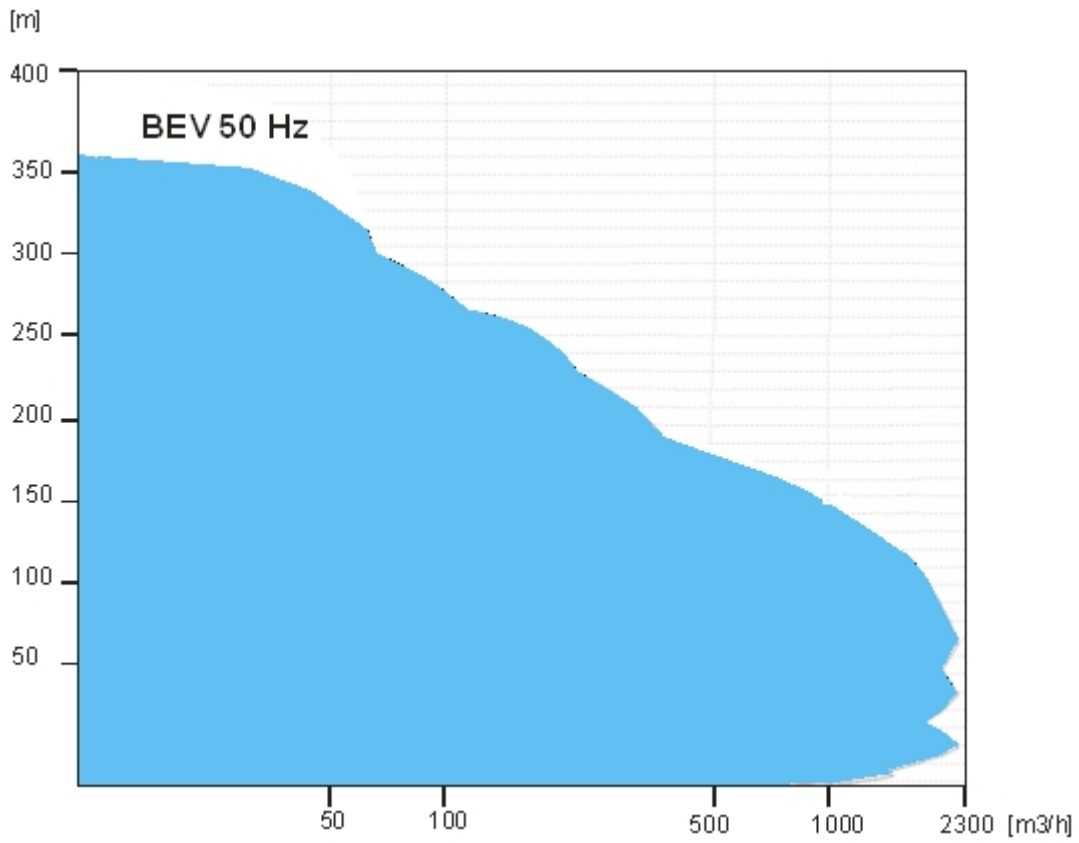
Standard base plate is rectangular shaped, and non-sealing design.

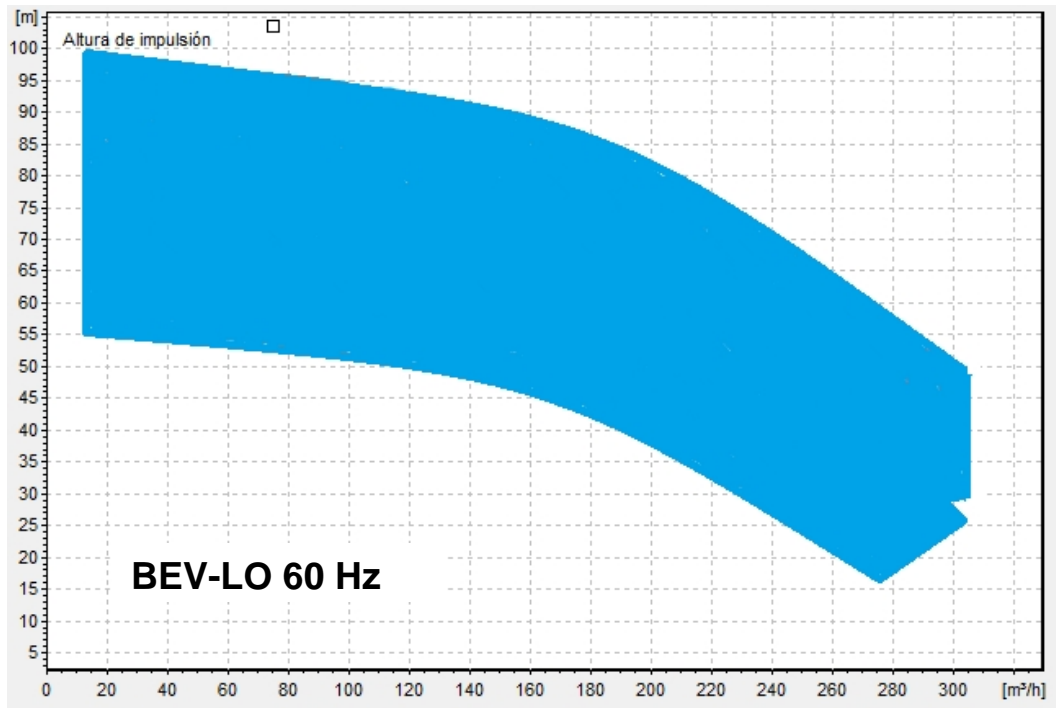
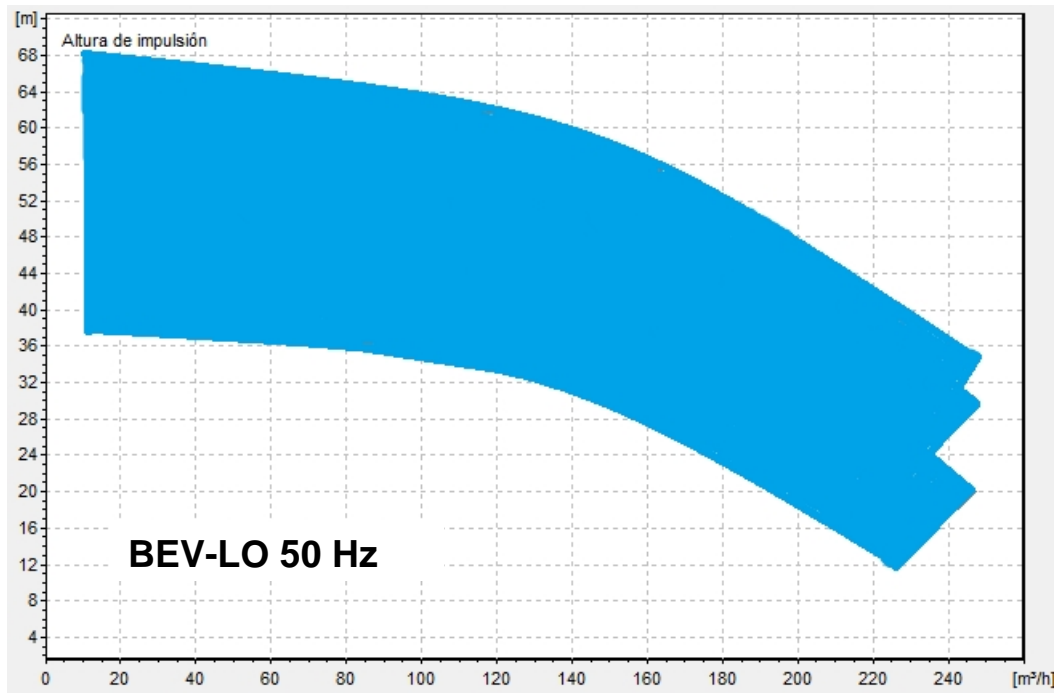
7. Certification - ATEX

Certified quality management according to ISO-9001.

BEV series can be supplied as ATEX (2014/34/EU) compliant.

8. Range Charts





9. Benefits at a Glance

BEV

Diverse driving systems

By engine coupled thanks to right angle gear drive
By electric motor with solid or hollow shaft (special design)

High quality parts

Oversized ball bearings and friction bearing bushes

Bearing lubrication

By pumped fluid (internal circulation)

Strainer to avoid blockage and prevent flow induced suction problems

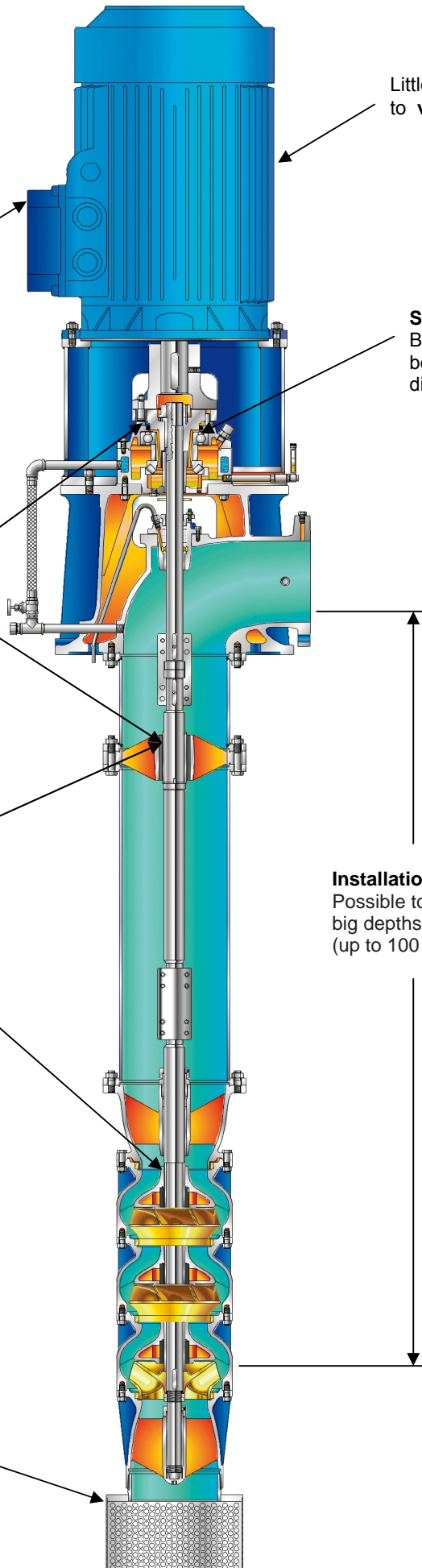
Little space required thanks to **vertical design**

Shaft support

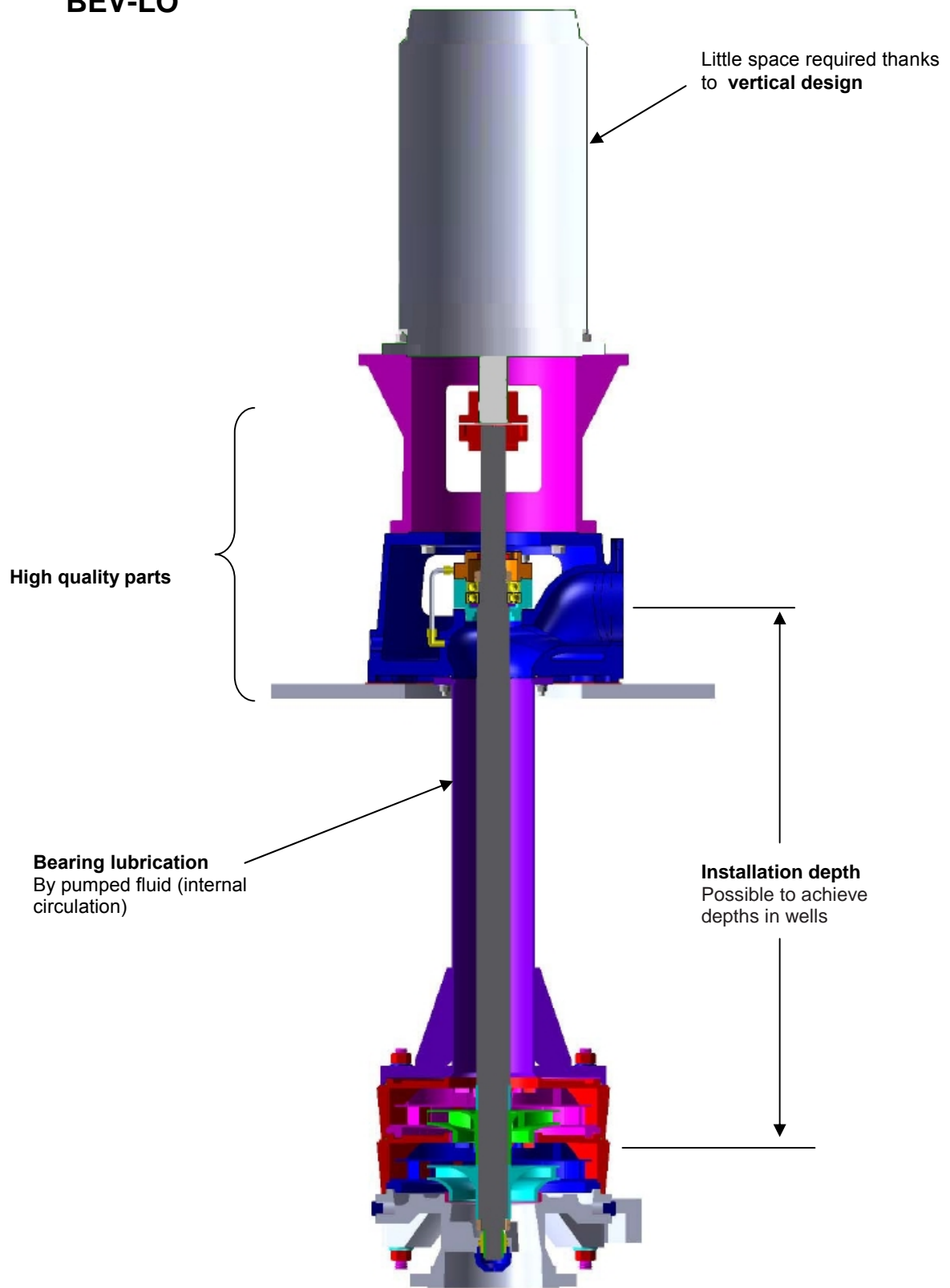
By oversized ball bearings placed upon the discharge head

Installation depth

Possible to achieve big depths in wells (up to 100 m)



BEV-LO



10. Technical data

		PUMP SIZE										
Units		6685 A	6685 B	6356	6456	8050	8056	8300	8400	1063	1066	1226
General												
Impeller outlet width	[mm]	4,5	6	16	21	19	12	29	30	28		
Impeller eye section	[cm ²]	14,3		41,9	76,1		30,0	117,4		110,3		
Max. & min. Impeller Ø	[mm]	Check individual curve										
Axial clearance	[mm]	7		9,5	14		11	14				
Maximum number of stages (1)		12		32	29		32	24		15		
Thrust constant	[N/m]	54		53	56	59	44		122		87	
Moments of inertia WD2 (2)	[kg*m ²]	0,019	0,032	0,009	0,035	0,036	0,016		0,100	0,104	0,260	
Min. submergence	[mm]	365		485	475				650		752	
Maximum speed	[rpm]	3600/3000						1800/1500				
Pump shaft												
Pump shaft Ø		7/8"		1"	1 3/16"		1"	1 1/2"		1 11/16"		
P/n value (1)	[kW/rpm]	0,042		0,066	0,110		0,066	0,226		0,332		
Pump bearing												
Friction bearing bush		00/016/03 00/022/02		00/025/04 01/025/01 04/025/01	00/030/07(3) 00/030/12 01/030/01 02/030/01	00/025/08(3) 00/025/10 01/025/02 04/025/02	00/038/01(3) 00/038/03 01/038/01 02/038/01	00/043/01(3) 00/043/03 01/043/01 02/043/01				
Bearing lubrication		Product lubricated										

(1) For AISI-431 B shaft material. Consult KSB ITUR for P/n value of other shaft materials.

(2) For pump with 1 stage

(3) Pumps with just 1 stage are not provided with this reference

		PUMP SIZE									
Units		1280	1286	1486	14D	16D	20B		22B	BEV-LO	
General											
Impeller outlet width	[mm]	45			49	55	48		52	20	
Impeller eye section	[cm ²]	207	207,7	266	261,3	327,4		460	679,3	---	
Max. & min. Impeller Ø	[mm]	Check individual curve									
Axial clearance	[mm]	12,7		23	5	8	15		NA		
Maximum number of stages (1)		11		10	10	8	6		3	2	
Thrust constant	[N/m]	227	197	233	26	34		41	52	NA	
Moments of inertia WD2 (2)	[kg*m ²]	0,364	0,368	0,552	0,370	0,680		1,800	4,800	1,18	
Min. submergence	[mm]	1040		1170	900	950		1160	1000	360	
Maximum speed	[rpm]	1800/1500 (3)									
Pump shaft (Ref.211)											
Pump shaft Ø		1 11/16"		1 15/16"	50	60	50	50	60	63	50
P/n Drive rating (1)	[kW/rpm]	0,332		0,516	0,380	0,656	0,380	0,380	0,656	0,766	0,380
Pump bearing											
Friction bearing bush		00/049/01(4) 00/049/02 01/049/01 02/049/01		00/055/01(4) 00/055/02 01/055/01 02/055/02	00/040/03 00/060/03 00/060/06	00/045/03 00/060/03 00/070/01	00/052/01 00/060/02 00/088/01		00/052/02 00/100/01 T-405044	NA	
Bearing lubrication		Product lubricated									

(1) For AISI-431 B shaft material. Consult KSB ITUR for P/n value of other shaft materials.

(2) For pump with 1 stage

(3) 1500 rpm for pump with coupling system AE-400

(4) Pumps with just 1 stage are not provided with this reference

WEAR RING DEPENDING ON PUMP SIZE/MATERIAL VARIANT														
Material variant														
	21	03	00	21	03	00	21	09	00	21	09	01 ⁽¹⁾	21	
Pump size	6685A, 6685B		6356, 6456, 1063, 1066, 1226, 1280, 1286, 1486, 8300, 8400 8050, 8056			14D, 16D, 20B			22B			125/2-10.1 ⁽²⁾ , 125/2-10.1.2 ⁽²⁾ , 125/2-10.2 ⁽²⁾		
Ref.	Denomination		No		No		No		No		No		No	
502	Wear ring		-----	-----	-----	x1	-----	x1	x1	x1	x2	x2	x2	x1 x1

(1) Material variant only available for BEV-LO

(2) BEV-LO pump sizes

Only for BEV pump series:

INTERMEDIATE DRIVE SHAFT (column shaft) Ref 212		
Shaft Ø	Max. P/n value (1)	Max. axial thrust
Threaded ["]	[kW/rpm]	[kg]
7/8"	0,0162	1500
1"	0,0254	1800
1 1/4"	0,0512	2200
1 1/2"	0,0868	4500
1 11/16"	0,1275	5200
1 15/16 "	0,1985	6800
Keyed shaft (2) [mm]		
50	0,1607	10000
60	0,2276	14000
63	0,3242	15600

(1) For F-114 shaft material. Consult KSB ITUR for P/n values for other shaft materials.

(2) For keyed shafts, same Ø as pump shaft should be used

Only for BEV pump series:

COUPLING SYSTEM FOR ELECTRIC MOTOR DRIVEN PUMP									
		Units	10E-10 L/2	10E-40 H/2	16½ E-125 H/2	20E-300 H/4	AE-370	AE-400	
3450 rpm	Max. power	[kW]	18	55	220	NA	NA	NA	
	Max. axial thrust	[kg]	436	920	1300	NA	NA	NA	
2900 rpm	Max. power	[kW]	15	55	200	NA	NA	NA	
	Max. axial thrust	[kg]	450	1000	1550	NA	NA	NA	
1750 rpm	Max. power	[kW]	8,8	53	110	300	228	NA	
	Max. axial thrust	[kg]	480	1280	1900	4000	3400	NA	
1450 rpm	Max. power	[kW]	7,5	45	92	250	200	450	
	Max. axial thrust	[kg]	500	1280	2000	4200	3600	5100	
Bearings	Shaft Ø (1)		7/8"	1"	1 1/4"	1 1/2"	1 15/16"	60	70
	Bearing		7211 + 6013 RS C3	7311 + 6213 RS C3	7214 + 6214 RS C3	7316 + 6219 C3	29320 + 6222 C3	31314 + 6218 C3	2 x 7322 + 6226 C3
Lubrication	Type		Oil bath				Grease		
	Quantity	[cm ³]	200	250	300	500	52	166	
	Quality		ISO VG 46				NA	NA	
	N > 3000 [rpm]		ISO VG 68				ISO VG 46	NA	
	2000 < n > 3000 [rpm]		ISO VG 68				ISO VG 46	NA	
	1500 < n > 2000 [rpm]		ISO VG 100				ISO VG 68	K2K	
Cooling jacket			No			Yes (by pumped medium)			

(1) Common with discharge head's shaft. Also known as drive shaft (Ref. 213)

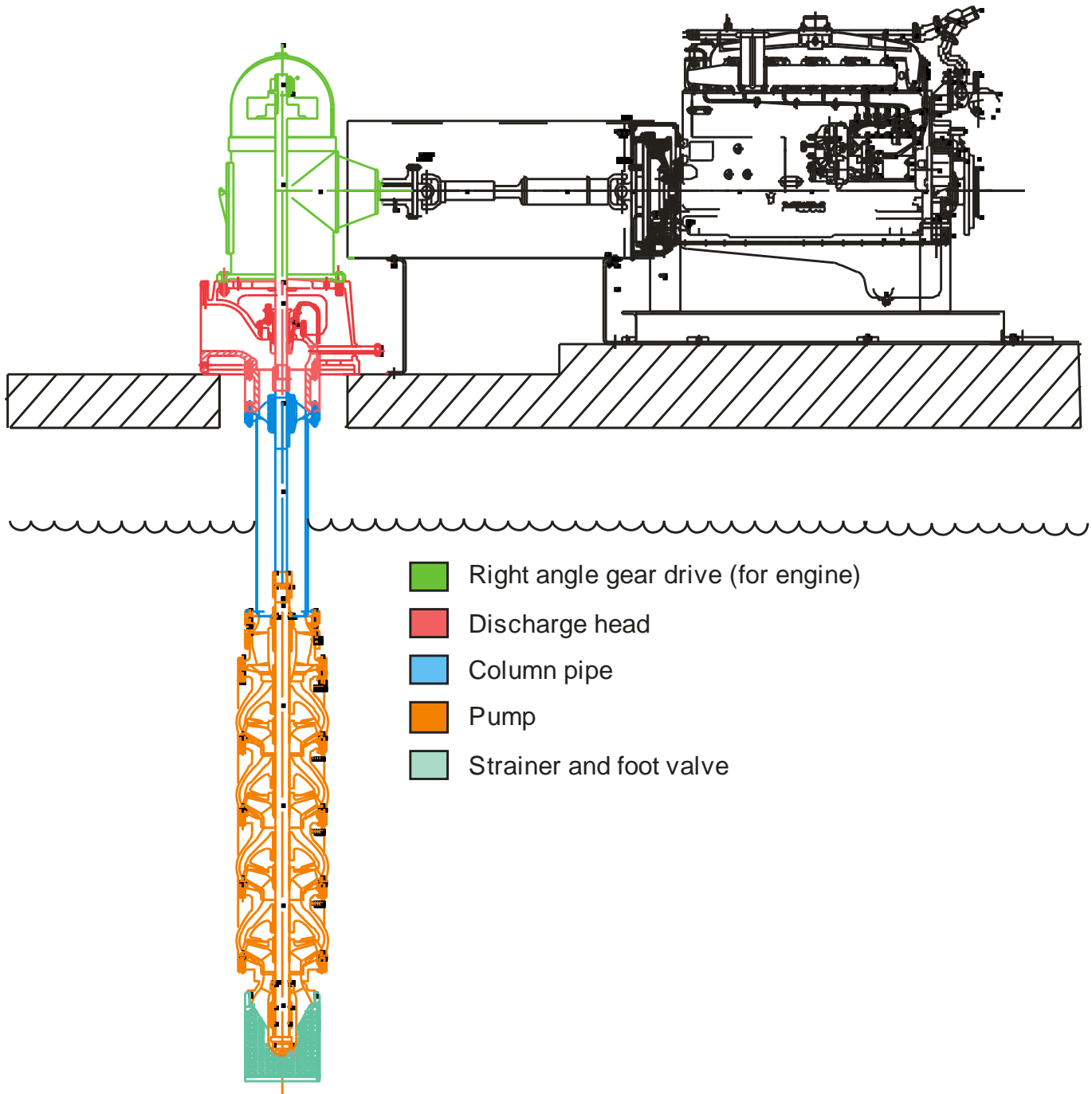
Only for BEV pump series:
RIGHT ANGLE GEAR DRIVE FOR ENGINE DRIVEN PUMP

GEAR HEAD SIZE	PUMP SPEED [rpm]	MAX P [kW]	DOWNTHRUST AXIAL CAPACITY (kg)				SPEED RATIO (engine : pump)													
			S TYPE		SL TYPE		1:1	11:10	6:5	5:4	4:3	3:2	7:4	2:1	5:2	10:11	5:6	4:5	3:4	2:3
			MIN	MAX	MIN	MAX	ENGINE SPEED [rpm]													
S030	720	11,6	429	1257	0	500	720		864		960	1080					600		540	480
S030	870	13,4	401	1173	0	480	870		1044		1160	1305					725		653	579
S030	960	14,3	388	1136	0	465	960		1152		1280	1440					800		720	639
S030	1160	16	362	1071	0	444	1160	NA	1392	NA	1547	1740	NA	NA	NA	NA	966	NA	870	773
S030	1460	19	345	987	0	409	1460		1752		1947	2190					1216		1095	972
S030	1550	20,2	328	959	0	399	1550		1860		2067	2325					1291		1163	1032
S030	1650	21,1	321	940	0	392	1650		1980		2200	2475					1374		1238	1099
S030	1760	22	318	931	0	386	1760		2112		2347	2640					1466		1320	1172
S040A	720	15,3	613	2452	0	750	720		864		960	1080	1260	1440	1800		600		540	480
S040A	870	17,6	572	2288	0	720	870		1044		1160	1305	1523	1740	2175		725		653	579
S040A	960	18,8	554	2216	0	710	960		1152		1280	1440	1680	1920	2400		800		720	639
S040A	1160	22	517	2088	0	679	1160	NA	1392	NA	1547	1740	2030	2320	2900	NA	966	NA	870	773
S040A	1460	26	479	1925	0	626	1460		1752		1947	2190	2555	2920	3650		1216		1095	972
S040A	1550	26,6	468	1870	0	610	1550		1860		2067	2325	2713	3100	3875		1291		1163	1032
S040A	1650	27,8	459	1834	0	605	1650		1980		2200	2475	2888	3300	4125		1374		1238	1099
S040A	1760	29	454	1816	0	590	1760		2112		2347	2640	3080	3520	4400		1466		1320	1172
S060A	720	23,3	767	3125	0	1010	720	792	864	900	960	1080	1260	1440	1800	654	600	576	540	480
S060A	870	26,8	716	2917	0	970	870	957	1044	1088	1160	1305	1523	1740	2175	791	725	696	653	579
S060A	960	29	676	2825	0	942	960	1056	1152	1200	1280	1440	1680	1920	2400	873	800	768	720	639
S060A	1160	33	646	2663	0	888	1160	1276	1392	1450	1547	1740	2030	2320	2900	1054	966	928	870	773
S060A	1460	39	604	2454	0	818	1460	1606	1752	1825	1947	2190	2555	2920	3650	1327	1216	1168	1095	972
S060A	1550	40,4	585	2384	0	800	1550	1705	1860	1938	2067	2325	2713	3100	3875	1409	1291	1240	1163	1032
S060A	1650	42,2	574	2338	0	785	1650	1815	1980	2063	2200	2475	2888	3300	4125	1500	1374	1320	1238	1099
S060A	1760	44	568	2315	0	772	1760	1936	2112	2200	2347	2640	3080	3520	4400	1600	1466	1408	1320	1172
S100A	720	39,2	1073	3800	0	1860	720	792	864	900	960	1080	1260	1440	1800	654	600	576	540	480
S100A	870	45,1	1002	3547	0	1800	870	957	1044	1088	1160	1305	1523	1740	2175	791	725	696	653	579
S100A	960	48	947	3434	0	1772	960	1056	1152	1200	1280	1440	1680	1920	2400	873	800	768	720	639
S100A	1160	55	904	3237	0	1671	1160	1276	1392	1450	1547	1740	2030	2320	2900	1054	966	928	870	773
S100A	1460	65	843	2984	0	1540	1460	1606	1752	1825	1947	2190	2555	2920	3650	1327	1216	1168	1095	972
S100A	1550	68	819	2899	0	1510	1550	1705	1860	1938	2067	2325	2713	3100	3875	1409	1291	1240	1163	1032
S100A	1650	71	803	2843	0	1480	1650	1815	1980	2063	2200	2475	2888	3300	4125	1500	1374	1320	1238	1099
S100A	1760	74	795	2815	0	1453	1760	1936	2112	2200	2347	2640	3080	3520	4400	1600	1466	1408	1320	1172
S125A	720	48,7	1285	4107	0	2400	720	792	864	900	960	1080				654	600	576	540	480
S125A	870	56,1	1230	3833	0	2320	870	957	1044	1088	1160	1305				791	725	696	653	579
S125A	960	60	1214	3711	0	2271	960	1056	1152	1200	1280	1440				873	800	768	720	639
S125A	1160	68	1165	3498	0	2141	1160	1276	1392	1450	1547	1740	NA	NA	NA	1054	966	928	870	773
S125A	1460	81	1084	3224	0	1973	1460	1606	1752	1825	1947	2190				1327	1216	1168	1095	972
S125A	1550	84,6	1060	3133	0	1940	1550	1705	1860	1938	2067	2325				1409	1291	1240	1163	1032
S125A	1650	88,3	1035	3072	0	1900	1650	1815	1980	2063	2200	2475				1500	1374	1320	1238	1099
S125A	1760	92	1022	3042	0	1861	1760	1936	2112	2200	2347	2640				1600	1466	1408	1320	1172
S150A	720	59	1618	5026	0	3065	720	792	864		960	1080		1440	1800	654	600	576	540	
S150A	870	67,1	1530	4691	0	2870	870	957	1044		1160	1305		1740	2175	791	725	696	653	
S150A	960	72	1468	4542	0	2769	960	1056	1152		1280	1440		1920	2400	873	800	768	720	
S150A	1160	82	1401	4281	0	2611	1160	1276	1392	NA	1547	1740	NA	2320	2900	1054	966	928	870	NA
S150A	1460	97	1300	3946	0	2406	1460	1606	1752		1947	2190		2920	3650	1327	1216	1168	1095	
S150A	1550	101,2	1270	3835	0	2350	1550	1705	1860		2067	2325		3100	3875	1409	1291	1240	1163	
S150A	1650	105,6	1250	3760	0	2300	1650	1815	1980		2200	2475		3300	4125	1500	1374	1320	1238	
S150A	1760	110	1226	3723	0	2270	1760	1936	2112		2347	2640		3520	4400	1600	1466	1408	1320	
S200	720	79	1618	7032	0	3065	720	792	864	900	960	1080	1260	1440	1800	654	600	576		480
S200	870	89,6	1520	6570	0	2870	870	957	1044	1088	1160	1305	1523	1740	2175	791	725	696		579
S200	960	96	1461	6388	0	2769	960	1056	1152	1200	1280	1440	1680	1920	2400	873	800	768		639
S200	1160	110	1395	5997	0	2611	1160	1276	1392	1450	1547	1740	2030	2320	2900	1054	966	928		773
S200	1460	129	1300	5557	0	2406	1460	1606	1752	1825	1947	2190	2555	2920	3650	1327	1216	1168	NA	972
S200	1550	135,2	1270	5377	0	2350	1550	1705	1860	1938	2067	2325	2713	3100	3875	1409	1291	1240		1032
S200	1650	141,1	1250	5273	0	2300	1650	1815	1980	2063	2200	2475	2888	3300	4125	1500	1374	1320		1099
S200	1760	147	1226	5221	0	2270	1760	1936	2112	2200	2347	2640	3080	3520	4400	1600	1466	1408		1172

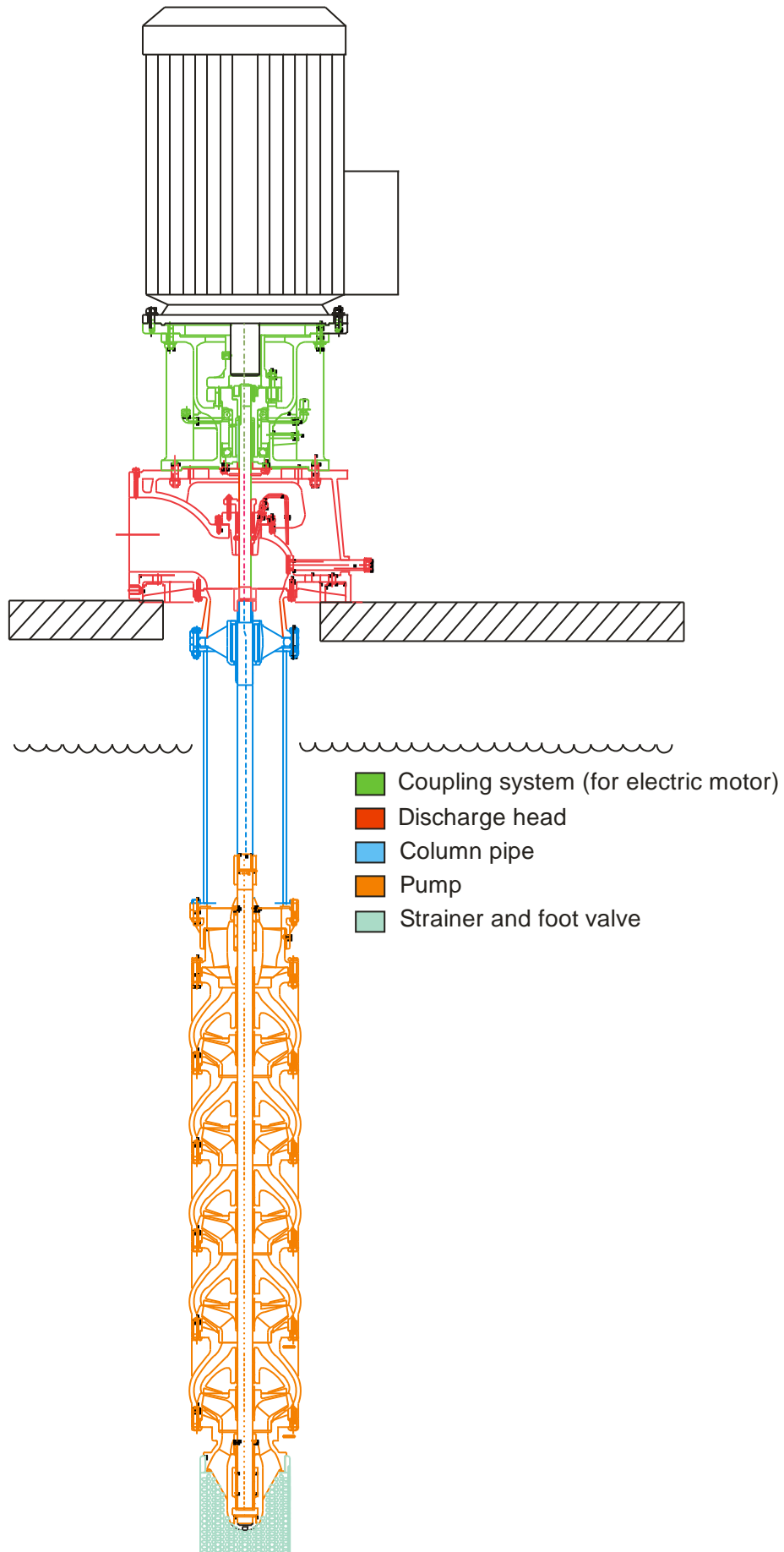
Only for BEV pump series:

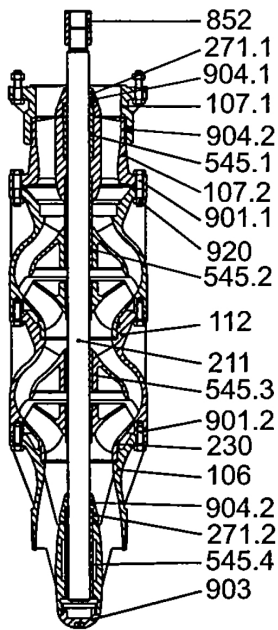
RIGHT ANGLE GEAR DRIVE FOR ENGINE DRIVEN PUMP																				
GEAR HEAD SIZE	PUMP SPEEP [rpm]	MAX P [kW]	DOWNTHRUST AXIAL CAPACITY (kg)				SPEED RATIO (engine-pump)													
			S TYPE		SL TYPE		1:1	11:10	6:5	5:4	4:3	3:2	7:4	2:1	5:2	10:11	5:6	4:5	3:4	2:3
			MIN	MAX	MIN	MAX	DIESEL ENGINE SPEED [rpm]													
S250	720	99	0	7945	NA	720	792	864	900	960	1080	NA	1440	1800	654	NA	576	NA	480	
S250	870	112,2	0	7436		870	957	1044	1088	1160	1305		1740	2175	791		696		579	
S250	960	121	0	7200		960	1056	1152	1200	1280	1440		1920	2400	873		768		639	
S250	1160	138	0	6787		1160	1276	1392	1450	1547	1740		2320	2900	1054		928		773	
S250	1460	161	0	6256		1460	1606	1752	1825	1947	2190		2920	3650	1327		1168		972	
S250	1550	169,2	0	6079		1550	1705	1860	1938	2067	2325		3100	3875	1409		1240		1032	
S250	1650	176,6	0	5961		1650	1815	1980	2063	2200	2475		3300	4125	1500		1320		1099	
S250	1760	184	0	5902		1760	1936	2112	2200	2347	2640		3520	4400	1600		1408		1172	
S300	720	119	0	7968	NA	720	792	864	900	960	1080	NA	1440	1800	654	NA	576	NA	480	
S300	870	134,8	0	7436		870	957	1044	1088	1160	1305		1740	2175	791		696		579	
S300	960	143	0	7200		960	1056	1152	1200	1280	1440		1920	2400	873		768		639	
S300	1160	165	0	6787		1160	1276	1392	1450	1547	1740		2320	2900	1054		928		773	
S300	1460	194	0	6256		1460	1606	1752	1825	1947	2190		2920	3650	1327		1168		972	
S300	1550	203,3	0	6079		1550	1705	1860	1938	2067	2325		3100	3875	1409		1240		1032	
S300	1650	212,1	0	5961		1650	1815	1980	2063	2200	2475		3300	4125	1500		1320		1099	
S300	1760	221	0	5902		1760	1936	2112	2200	2347	2640		3520	4400	1600		1408		1172	
S350	720	138	0	7968	NA	720	792	864	900	960	1080	NA	1440	1800	654	NA	576	NA	480	
S350	870	156,7	0	7436		870	957	1044	1088	1160	1305		1740	2175	791		696		579	
S350	960	168	0	7200		960	1056	1152	1200	1280	1440		1920	2400	873		768		639	
S350	1160	192	0	6787		1160	1276	1392	1450	1547	1740		2320	2900	1054		928		773	
S350	1460	226	0	6256		1460	1606	1752	1825	1947	2190		2920	3650	1327		1168		972	
S350	1550	236,4	0	6079		1550	1705	1860	1938	2067	2325		3100	3875	1409		1240		1032	
S350	1650	246,7	0	5961		1650	1815	1980	2063	2200	2475		3300	4125	1500		1320		1099	
S350	1760	257	0	5902		1760	1936	2112	2200	2347	2640		3520	4400	1600		1408		1172	
S450A	720	177	2102	11645	0	3677	720	792	864	960	1080	1260	1440	1800	654	600	540	480		
S450A	870	201,9	1960	10868	0	3450	870	957	1044	1160	1305	1523	1740	2175	791	725	653	579		
S450A	960	216	1895	10524	0	3323	960	1056	1152	1280	1440	1680	1920	2400	873	800	720	639		
S450A	1160	247	1806	9920	0	3133	1160	1276	1392	1547	1740	2030	2320	2900	1054	966	870	773		
S450A	1460	290	1686	9144	0	2887	1460	1606	1752	1947	2190	2555	2920	3650	1327	1216	1095	972		
S450A	1550	304,5	1640	8884	0	2820	1550	1705	1860	2067	2325	2713	3100	3875	1409	1291	1163	1032		
S450A	1650	317,7	1610	8712	0	2780	1650	1815	1980	2200	2475	2888	3300	4125	1500	1374	1238	1099		
S450A	1760	331	1589	8626	0	2724	1760	1936	2112	2347	2640	3080	3520	4400	1600	1466	1320	1172		
S500A	720	196	2517	12871	0	3677	720	792	864	960	1080	1260	1440	1800	654	600	540	480		
S500A	870	224,4	2390	12012	0	3450	870	957	1044	1160	1305	1523	1740	2175	791	725	653	579		
S500A	960	240	2272	11631	0	3323	960	1056	1152	1280	1440	1680	1920	2400	873	800	720	639		
S500A	1160	274	2170	10964	0	3133	1160	1276	1392	1547	1740	2030	2320	2900	1054	966	870	773		
S500A	1460	323	2023	10106	0	2887	1460	1606	1752	1947	2190	2555	2920	3650	1327	1216	1095	972		
S500A	1550	338,5	1970	9820	0	2820	1550	1705	1860	2067	2325	2713	3100	3875	1409	1291	1163	1032		
S500A	1650	353,2	1940	9629	0	2780	1650	1815	1980	2200	2475	2888	3300	4125	1500	1374	1238	1099		
S500A	1760	368	1907	9534	0	2724	1760	1936	2112	2347	2640	3080	3520	4400	1600	1466	1320	1172		
S600A	720	236	2697	16548	0	4903	720	792	864	960	1080	1260	1440	1800	654	600	540	480		
S600A	870	269	2550	15445	0	4630	870	957	1044	1160	1305	1523	1740	2175	791	725	653	579		
S600A	960	289	2435	14955	0	4431	960	1056	1152	1280	1440	1680	1920	2400	873	800	720	639		
S600A	1160	329	2325	14097	0	4177	1160	1276	1392	1547	1740	2030	2320	2900	1054	966	870	773		
S600A	1460	387	2167	12993	0	3850	1460	1606	1752	1947	2190	2555	2920	3650	1327	1216	1095	972		
S600A	1550	405,7	2115	12625	0	3750	1550	1705	1860	2067	2325	2713	3100	3875	1409	1291	1163	1032		
S600A	1650	423,3	2080	12380	0	3680	1650	1815	1980	2200	2475	2888	3300	4125	1500	1374	1238	1099		
S600A	1760	441	2043	12258	0	3632	1760	1936	2112	2347	2640	3080	3520	4400	1600	1466	1320	1172		
S750A	720	295	2996	16548	0	4903	720	792	864	960	1080	1260	1440	1800	654	600	540	480		
S750A	870	337	2804	15445	0	4576	870	957	1044	1088	1160	1305	1523	1740	2175	791	725	653	579	
S750A	960	361	2708	14955	0	4431	960	1056	1152	1200	1280	1440	1680	1920	2400	873	800	720	639	
S750A	1160	412	2586	14097	0	4177	1160	1276	1392	1450	1547	1740	2030	2320	2900	1054	928	773	773	
S750A	1460	484	2408	12993	0	3850	1460	1606	1752	1825	1947	2190	2555	2920	3650	1327	1168	972	972	
S750A	1550	506,9	2350	12625	0	3750	1550	1705	1860	1938	2067	2325	2713	3100	3875	1409	1240	1032	1032	
S750A	1650	528,9	2310	12380	0	3680	1650	1815	1980	2063	2200	2475	2888	3300	4125	1500	1320	1099	1099	
S750A	1760	551	2270	12258	0	3632	1760	1936	2112	2200	2347	2640	3080	3520	4400	1600	1408	1172	1172	
S1000G	720	393	2996	16548	0	4903	720	792	864	960	1080	1260	1440	1800	654	600	540	480		
S1000G	870	449	2804	15445	0	4576	870	957	1044	1160	1305	1523	1740	2175	791	725	653	579		
S1000G	960	481	2708	14955	0	4431	960	1056	1152	1280	1440	1680	1920	2400	873	800	720	639		
S1000G	1160	549	2586	14097	0	4177	1160	1276	1392	1547	1740	2030	2320	2900	1054	928	773	773		
S1000G	1460	645	2408	12993	0	3850	1460	1606	1752	1947	2190	2555	2920	3650	1327	1216	1095	972	972	
S1000G	1550	676,2	2350	12625	0	3750	1550	1705	1860	2067	2325	2713	3100	3875	1409	1240	1032	1032	1032	
S1000G	1650	705,6	2305	12380	0	3680	1650	1815	1980	2200	2475	2888	3300	4125	1500	1320	1099	1099	1099	
S1000G	1760	735	2270	12258	0	3632	1760	1936	2112	2347	2640	3080	3520	4400	1600	1408	1172	1172	1172	

11. Cross section drawings
 Engine driven BEV pump

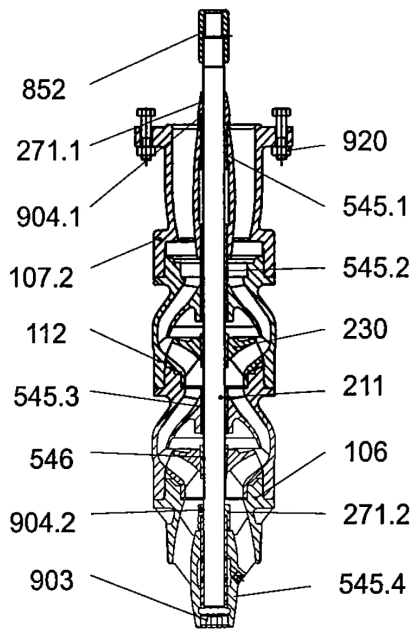


Electric motor driven BEV pump

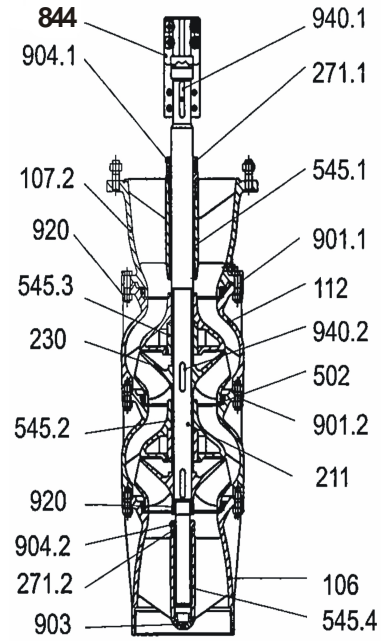


11.1 BEV Pump


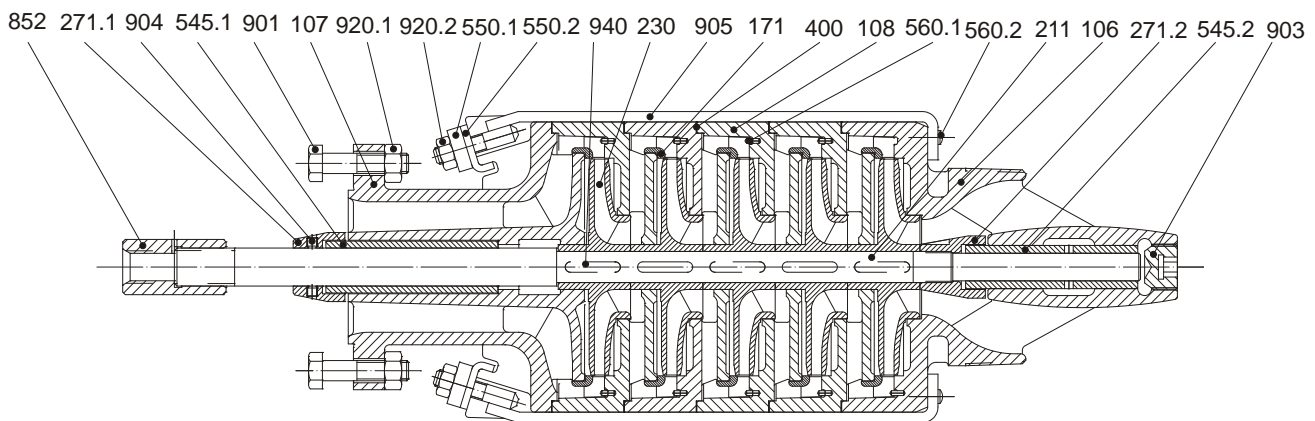
PUMP SIZE
8000
1063, 1066
1226, 1280, 1286
1486



PUMP SIZE
6056
8050, 8056



PUMP SIZE
14
16
20
22

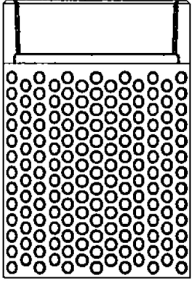
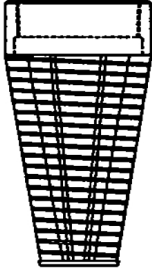
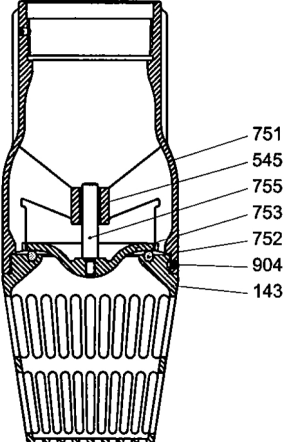
6685 PUMP SIZE


Ref.	Denomination
106	Suction casing
107	Discharge casing
108	Stage casing
112	Pump bowl
171	Diffuser
211	Pump shaft
230	Impeller
271	Sand guard
400	Gasket
502	Wear ring
545	Friction bearing bush

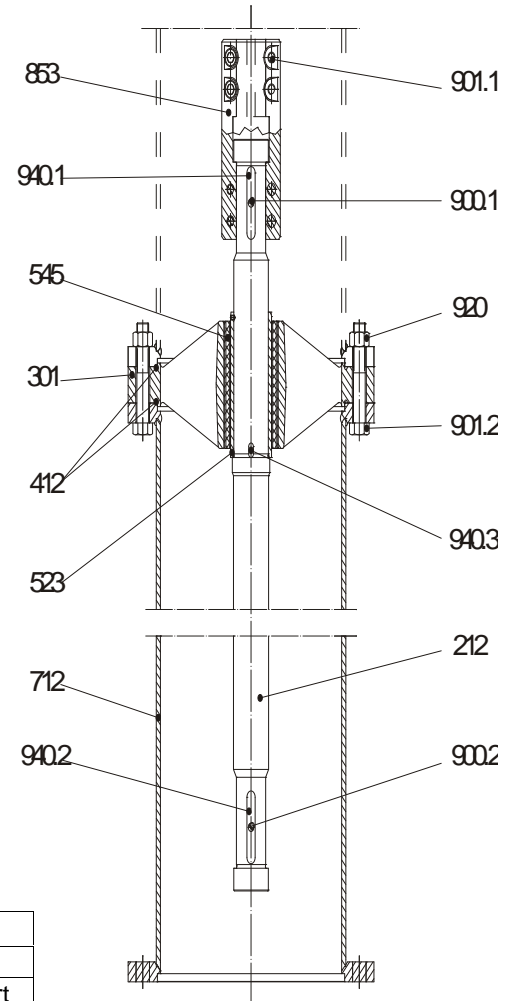
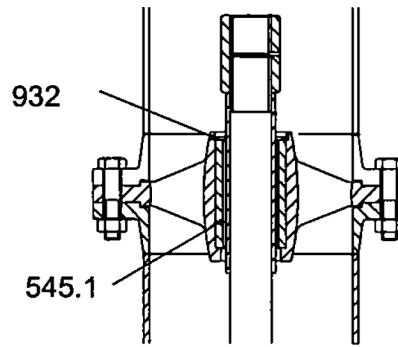
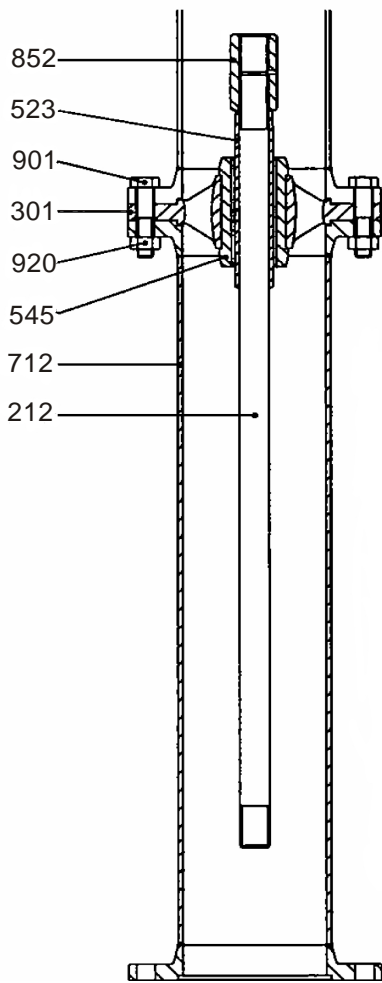
Ref.	Denomination
546	Conical sleeve
550	Washer
560	Pin
852	Threaded coupling
901	Hexagonal head screw
903	Plug
904	Setscrew
905	Tie bolt
920	Nut
940	Key

11.2 Strainer and foot valve (BEV series)

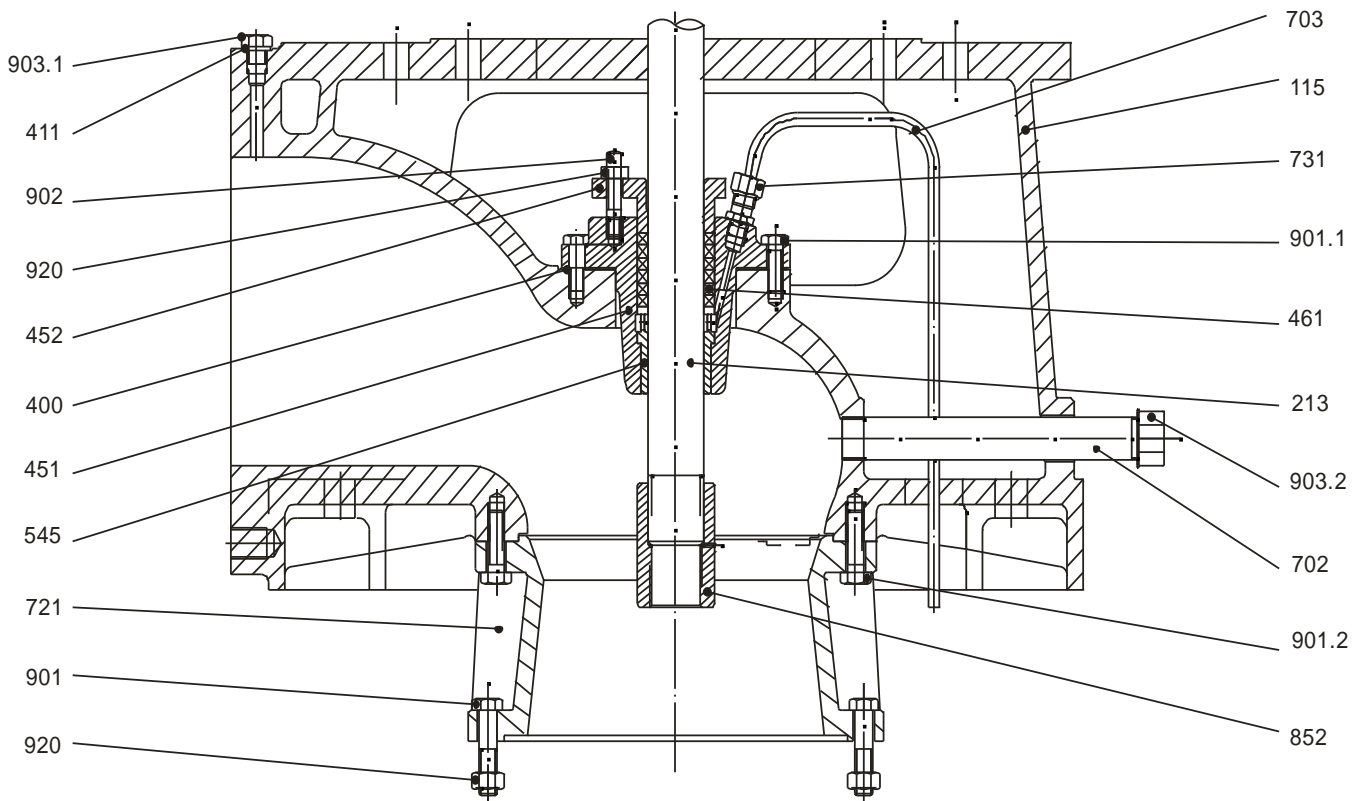
Strainer types

Standard strainer	Conic strainer	Strainer with foot valve																
		 <table border="1" data-bbox="938 775 1275 1032"> <thead> <tr> <th>Ref.</th> <th>Denomination</th> </tr> </thead> <tbody> <tr> <td>143</td> <td>Suction Strainer</td> </tr> <tr> <td>545</td> <td>Friction bearing bush</td> </tr> <tr> <td>751</td> <td>Valve body</td> </tr> <tr> <td>752</td> <td>Valve seat</td> </tr> <tr> <td>753</td> <td>Valve shutter</td> </tr> <tr> <td>755</td> <td>Valve pin</td> </tr> <tr> <td>904</td> <td>Setscrew</td> </tr> </tbody> </table>	Ref.	Denomination	143	Suction Strainer	545	Friction bearing bush	751	Valve body	752	Valve seat	753	Valve shutter	755	Valve pin	904	Setscrew
Ref.	Denomination																	
143	Suction Strainer																	
545	Friction bearing bush																	
751	Valve body																	
752	Valve seat																	
753	Valve shutter																	
755	Valve pin																	
904	Setscrew																	

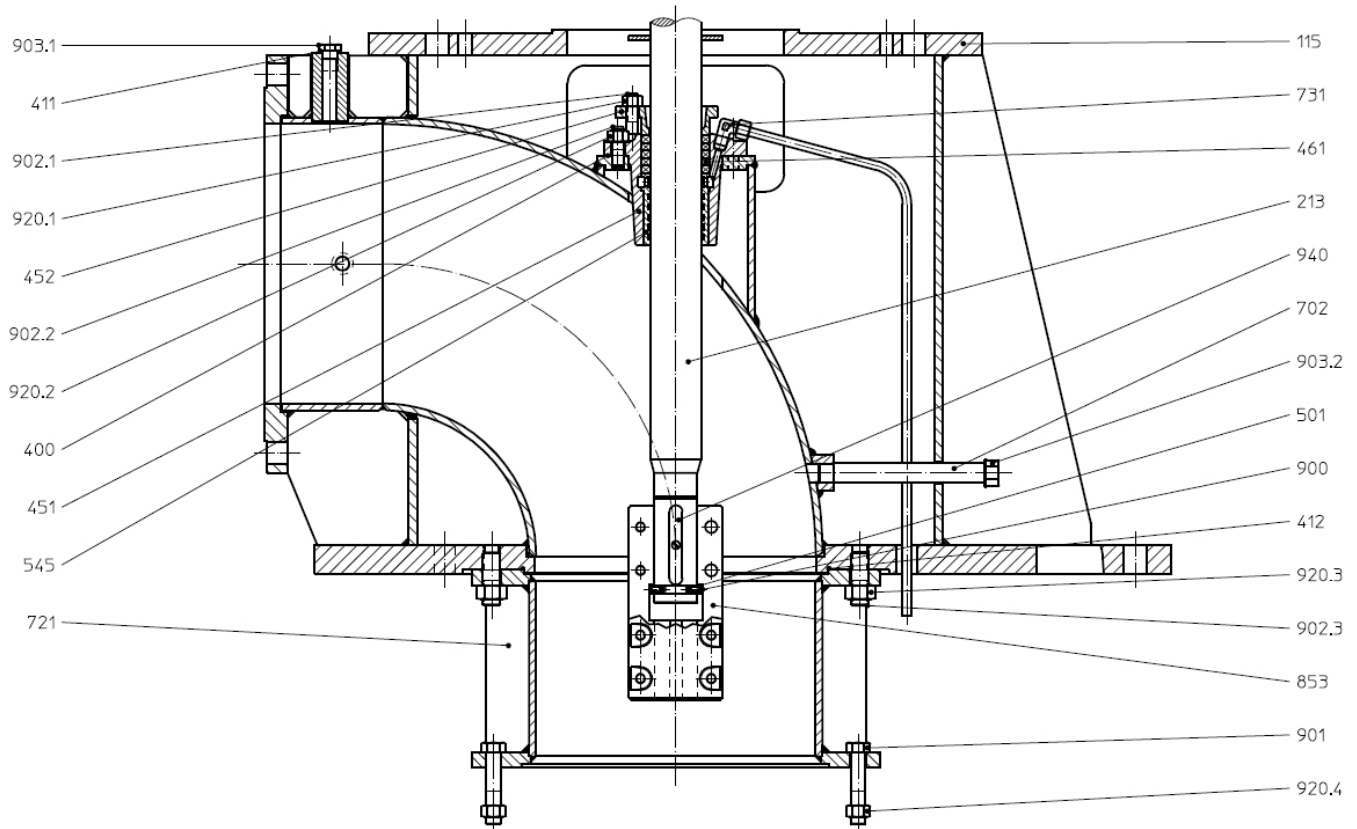
11.3 Column pipe (Bev series)
 \varnothing shaft 1"

 $1" < \varnothing$ shaft $1 \frac{15}{16}"$
 \varnothing shaft $> 1 \frac{15}{16}"$


Ref.	Denomination
212	Intermediate drive shaft
301	Intermediate bearing support
412	O-ring
523	Shaft wearing sleeve
545	Friction bearing bush
712	Intermediate pipe
852	Threaded coupling
853	Axial split coupling
900	Screw
901	Hexagonal head screw
920	Nut
932	Circlip
940	Key

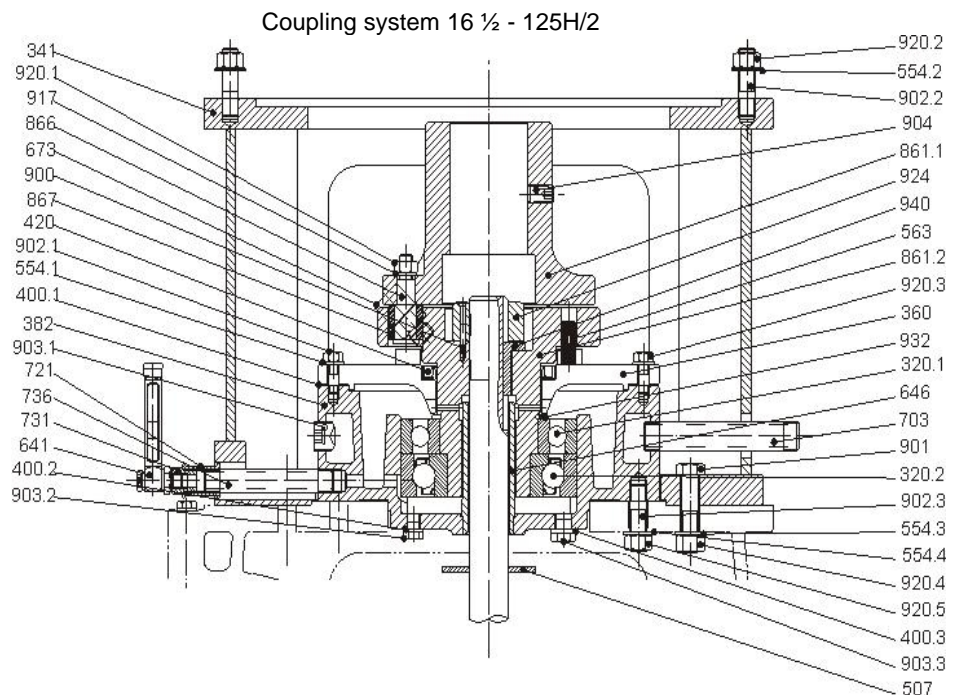
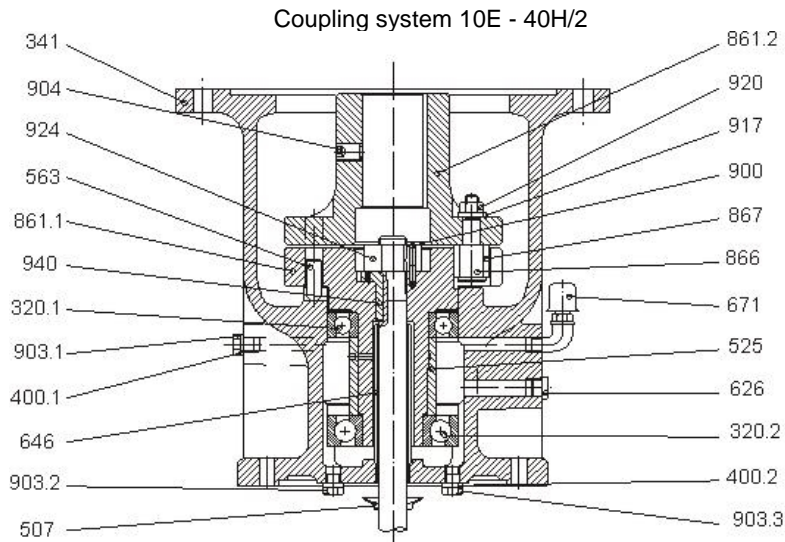
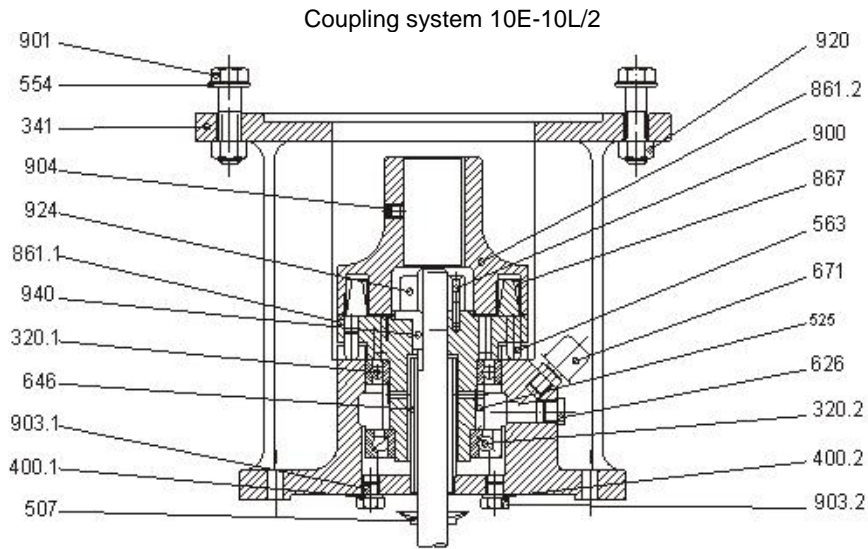
11.4 Discharge head (BEV series)


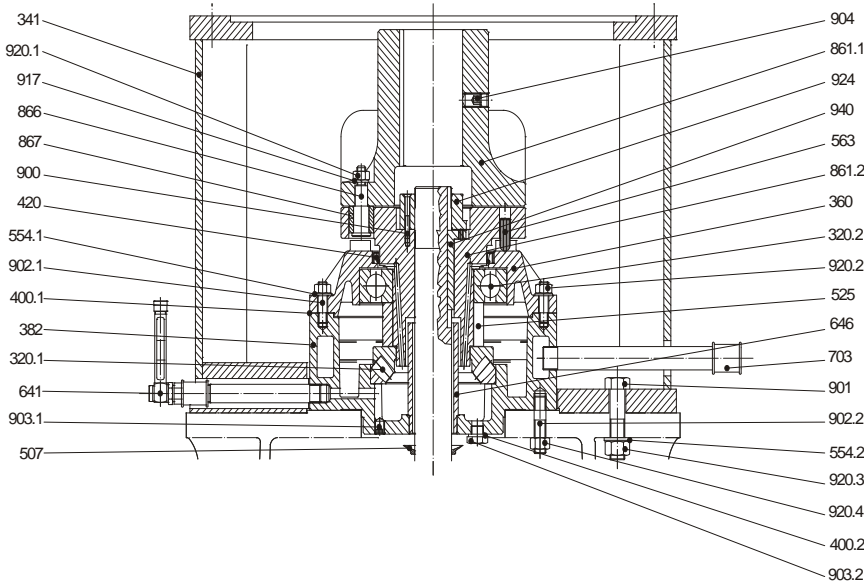
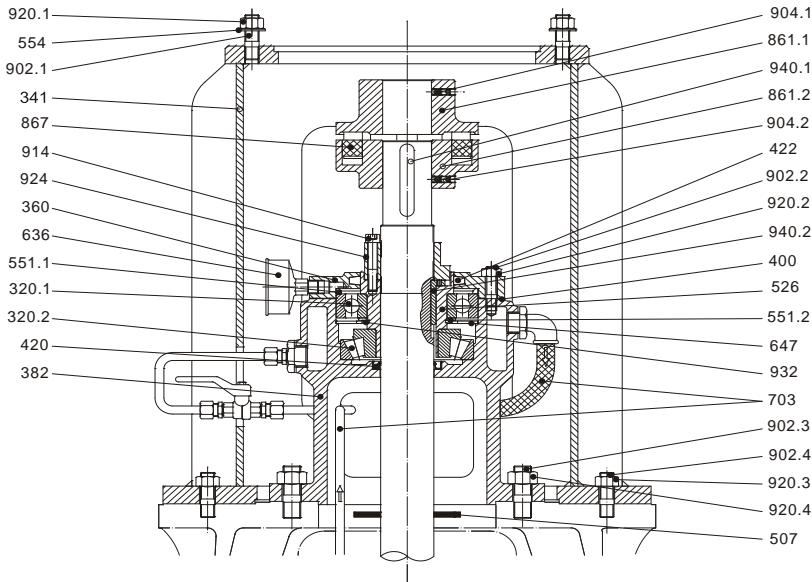
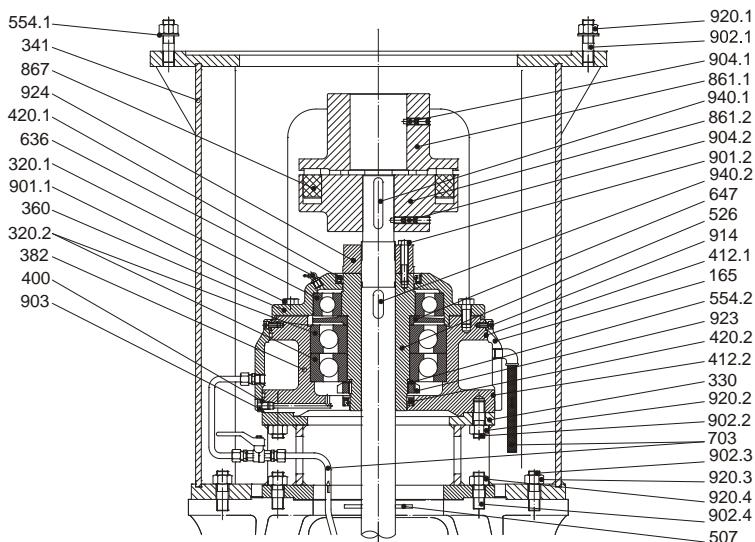
Ref.	Denomination
115	Discharge head
213	Drive shaft
400	O-ring
411	Circular gasket
451	Packing box
452	Packing gland
461	Packing
545	Friction bearing bush
702	Priming pipe
703	Cooling pipe
721	Adapter piece
731	Racord
852	Threaded coupling
901	Hexagonal head screw
902	Bolt
903	Plug
904	Setscrew
920	Nut

11.5 Welded discharge head (BEV series)


Ref.	Denomination
115	Discharge head
213	Drive shaft
400	Gasket
411	Circular gasket
412	O-ring
451	Packing box
452	Packing gland
461	Packing
501	Split ring
545	Friction bearing bush
702	Priming pipe
721	Adapter piece
731	Racord
853	Axial split coupling
900	Screw
901	Hexagonal head screw
902	Bolt
903	Plug
920	Nut
940	Key

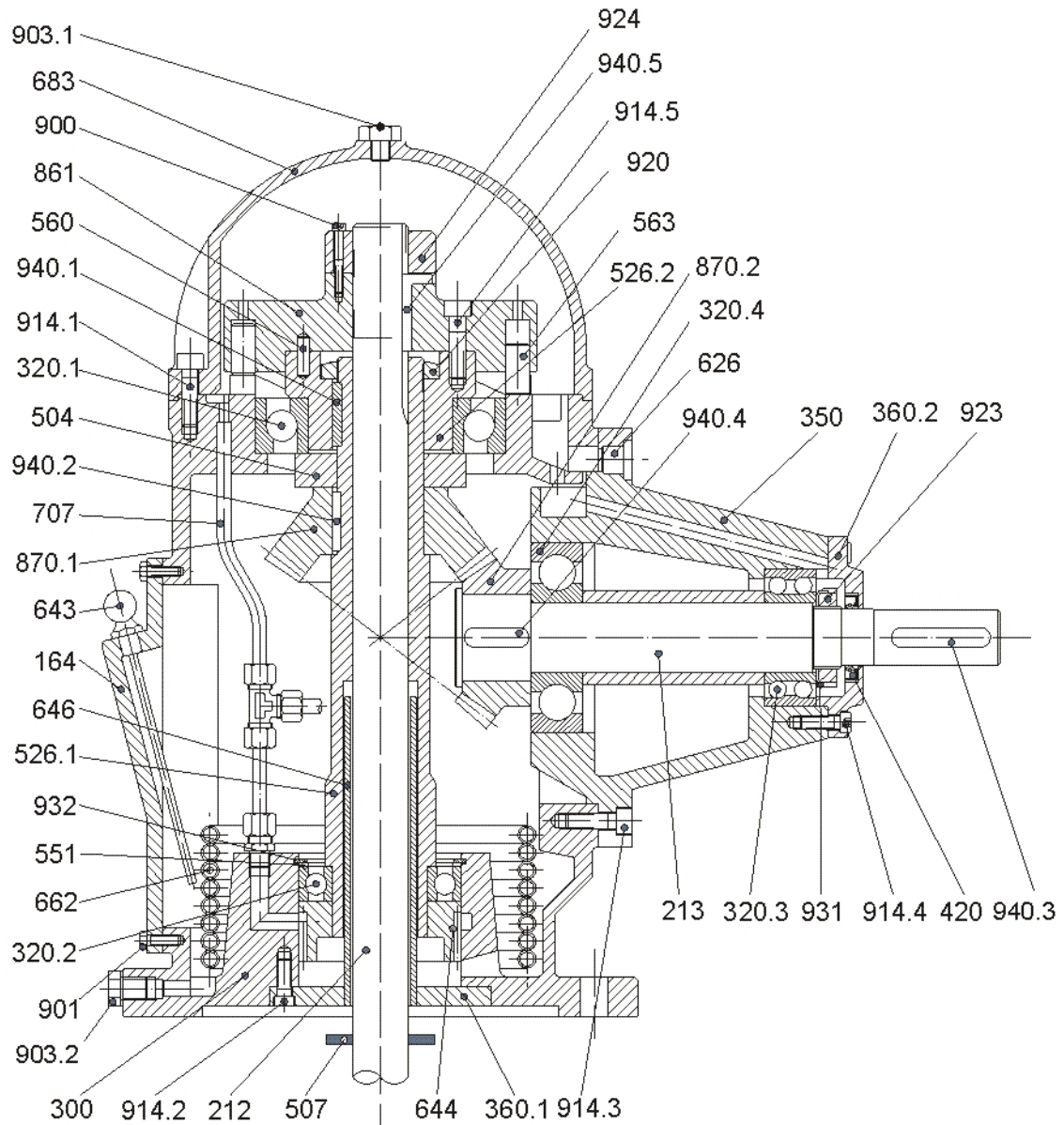
11.6 Coupling system (for electric motor driven BEV pumps)



Coupling system 20E - 300H/4

Coupling system AE - 370

Coupling system AE - 400


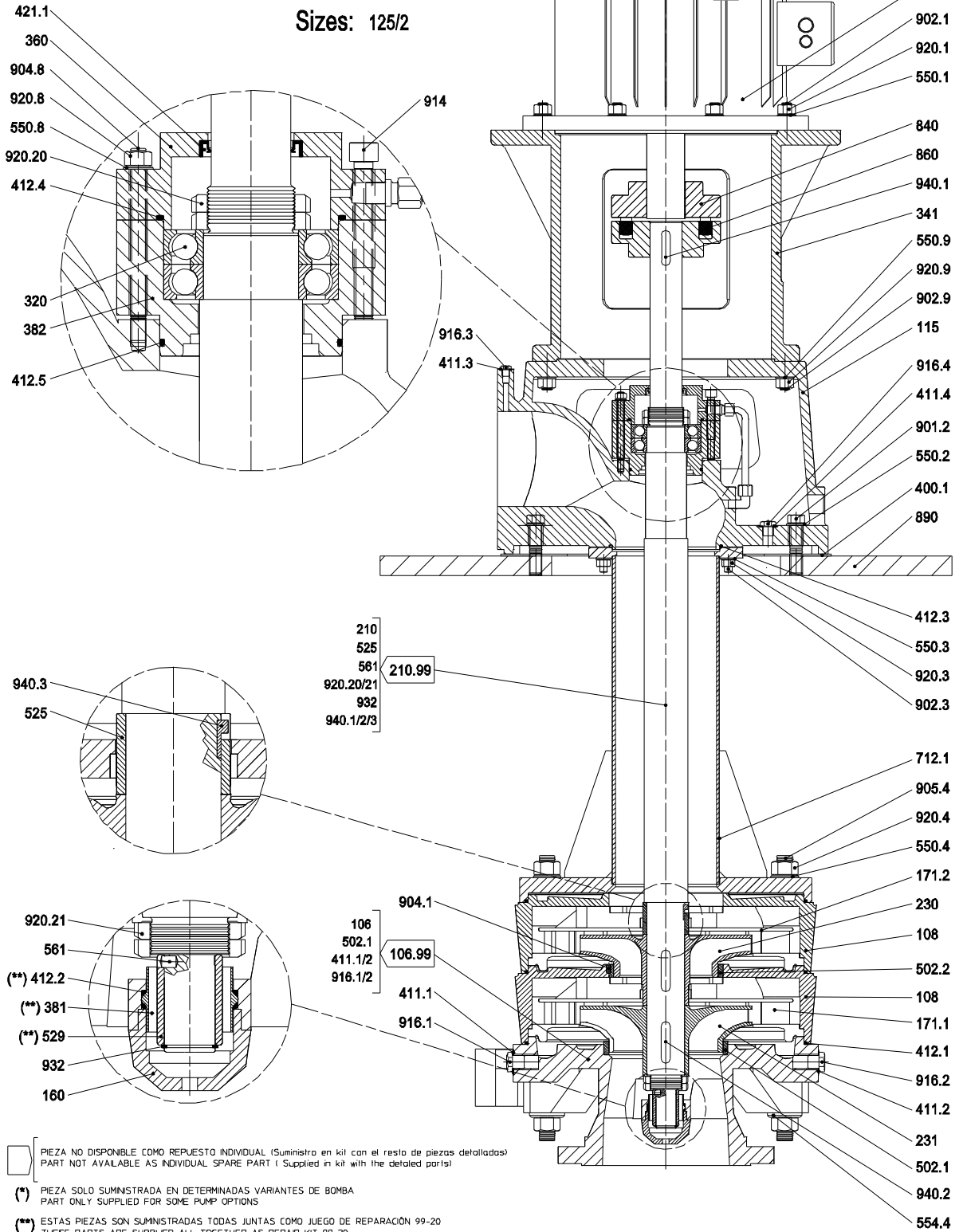
Ref.	Denomination
165	Cooling chamber cover
320	Bearing
330	Support
341	Pedestal
360	Bearing cover
382	Bearing support
400	Gasket
412	O-ring
420	Lip seal
507	Deflector protection
525	Spacer sleeve
526	Centring sleeve
551	Spacer washer
554	Flat washer
563	Bolt
626	Sight
636	Grease nipple
641	Oil level tube
646	Oil retaining sleeve
647	Grease regulator
671	Vacuum breaker cup
673	Vent Strainer
703	Cooling pipe
721	Adapter piece
731	Racord
736	Lenghtening
861	Half coupling
866	Coupling pin
867	Coupling flexible
900	Screw
901	Hexagonal head screw
902	Bolt
903	Plug
904	Setscrew
914	Allen screw
917	Grower washer
920	Nut
923	Bearing nut
924	Regulation nut
932	Circlip
940	Key

11.7 Right angle gear drive (for engine driven BEV pumps)



Ref	Denomination
164	Inspection cover
212	Intermediate drive shaft
213	Drive shaft
300	Support
320	Bearing
350	Bearing housing
360	Bearing cover
420	Lip seal
504	Spacer ring
507	Deflector protection
526	Centring sleeve
551	Spacer washer
560	Pin
563	Bolt
626	Sight
643	Oil dipstick
644	Oil ring

Ref	Denomination
646	Oil retaining sleeve
662	Coil
683	Cap
707	Lubrication pipe
861	Half coupling
870	Gear
900	Screw
901	Hexagonal head screw
903	Plug
914	Allen screw
920	Nut
923	Bearing nut
924	Regulation nut
931	Safety washer
932	Circlip
940	Key

11.8 Series BEV-LO
Serie: BEV-LO
Sizes: 125/2


PIEZA NO DISPONIBLE COMO REPUESTO INDIVIDUAL (Suministra en kit con el resto de piezas detalladas)
 PART NOT AVAILABLE AS INDIVIDUAL SPARE PART (Supplied in kit with the detailed parts)

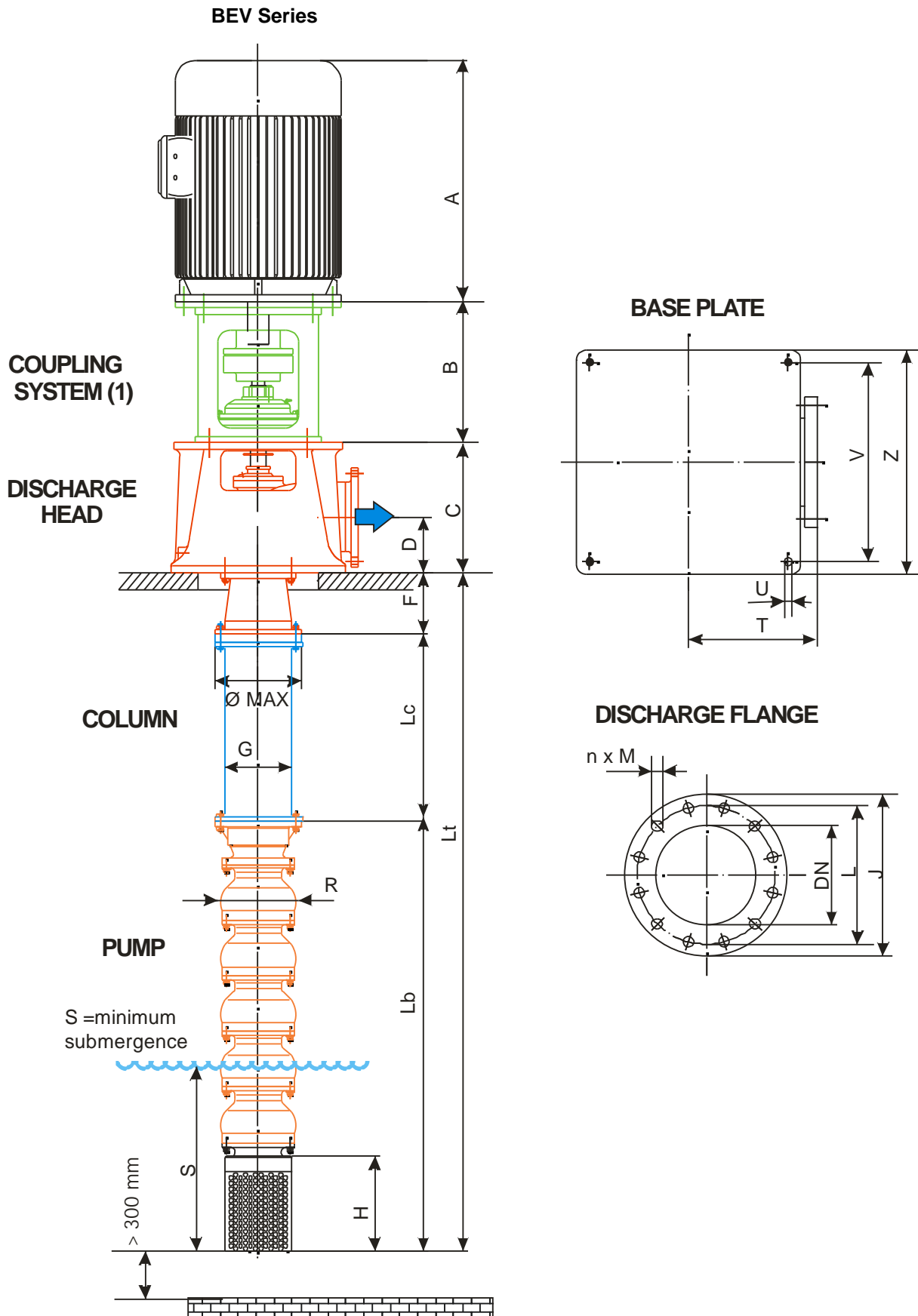
(*) PIEZA SOLO SUMNISTRADA EN DETERMINADAS VARIANTES DE BOMBA
 PART ONLY SUPPLIED FOR SOME PUMP OPTIONS

(***) ESTAS PIEZAS SON SUMNISTRADAS TODAS JUNTAS COMO JUEGO DE REPARACIÓN 99-20
 THESE PARTS ARE SUPPLIED ALL TOGETHER AS REPAIR KIT 99-20

Ref.	Denomination
106	Suction casing
108	Stage casing
115	Discharge casing
160	Cover
171	Diffuser
210	Shaft
230	Impeller
231	Impeller suction stage
320	Angular contact ball bearing
341	Motor stool
360	Bearing cover
381	Bearing cartridge
382	Bearing carrier
400	Gasket
411	Joint ring
412	O-ring
421	Lip seal
484	Spring plate
502	Casing wear ring

Ref.	Denomination
525	Spacer sleeve
529	Bearing sleeve
550	Washer
554	Washer
561	Grooved pin
712	Support column
800	Motor
840	Coupling
860	Flexible element
890	Baseplate
901	Hexagon head screw
902	Stud
904	Grub screw
905	Tie bolt
914	Hex socket screw
916	Plug
920	Lock nut
932	Circlip
940	Parallel key

12. Dimensions



(1) In case of engine driven pump , there is no coupling system but a right angle gear drive

DISCHARGE HEAD AND BASE PLATE DIMENSIONS													
DISCHARGE HEAD SIZE	DISCHARGE FLANGE						F	C	D	T	U	V	Z
	DN (1) Flange	PN	n	M	L	J							
3/10	80	40	8	M-16	160	200	130	230	108	200	18	300	350
4/10	100	16	8	M-16	180	220	107	253	125	200	18	300	350
5/12	125	16	8	M-16	210	254	130	260	135	220	18	350	420
6/16½	150	16	8	M-20	240	286	118	304	150	265	22	410	510
8/16½	200	16	12	M-20	295	340	98	354	180	310	23	468	568
10/20	250	16	12	M-24	335	405	125	520	225	400	23	620	700
12/20	300	16	12	M-24	410	460	295	650	295	465	32	700	800
16/24	400	16	16	M-27	525	580	294	750	430	570	32	900	1000

(1) Consult KSB ITUR for ANSI flange option

All dimensions in [mm]

BELOW BASE PLATE DIMENSIONS										
PUMP SIZE	R	Ø MAX (1)	S	H	Max. stage nr.	Lb min (for 1 stage)	Lb max (for max.nr. of stages)	Lc (column length)	Lt (total length)	Lt (total length)
6685A	190	190	380	250	12	472	934	305 610 915 1220 1525 1830 2135 2440 2745 3050	Lb + Lc x Column Nr.(5) + F	100 (7)
6685B	190		380		12	472	934			
6356	147		160		495	32 (2)	585			
6456	147	242	475	32 (2)	472	1816				
8300	190	190	475	32 (3)	584	5017				
8400	190	242	475	32 (3)	584	5017				
8050	197	280	476	230	29 (4)	653	5805			
8056	197		476		29 (5)	653	5805			
1063	241		650		24	786	5754			
1066	241	400	650	252	24	786	5754			
1226	288		755	285	15	800	4132			
1280	298		1040	477	11	1060	3680			
1286	298		1040		11	1061	3681			
1486	356		1185		10	1186	4291			
14D	400		565	900	220	10	1025			
16D	400			950		8 (5)	1090	2980		
20B	565	1160		350	6 (5)	1491	3166			
22B	565	1000			3	1430	2230			

(1) Maximum considering biggest column and discharge head size

All dimensions in [mm] (except Lt)

(2) For 2900 [rpm], 22 stages max.

(3) For 2900 [rpm], 12 stages max.

(4) For 2900 [rpm], 10 stages max.

(5) For shaft in AISI-431B or NITRONIC 50HS. Consult KSB ITUR for other shaft materials

(6) Considering all columns of equal length

(7) Length for speed 1800. For speed >1800 [rpm] max. length 60 m

ELECTRIC DRIVEN PUMPS									
COLUMN			PUMP SIZE	IEC MOTOR FRAME	MAX. DRIVE RATING	COUPLING SYSTEM SIZE	B	A (2)	DISCHARGE HEAD SIZE
G	External Flange Ø	Column shaft Ø (1)			P2 / n [kW / rpm]				
3"	142	7/8"	BEV-6685 BEV-6356 BEV-8300	90	0,0052	10E-10L/2	285	281	3/10
				100				312	
				112				333	
				132				373	
			160	478	0,0310	10E-40H/2	365	373	
			132	478					
			160	602					
			180						
4"	188	7/8"	BEV-6456 BEV-8400	90	0,0052	10E-10L/2	285	281	3/10 4/10 5/12
				100				312	
				112				333	
				132				373	
		160	478	0,0310	10E-40H/2	365	373		
		132	478						
		160	602						
		180		0,0310	10E-40H/2	365	660		
		200	666						
		225		0,0310	10E-40H/2	365	747	5/12	
250		0,0310	10E-40H/2	365	747	6/16½			
5"	192	7/8"	BEV-8050 BEV-8056	90	0,0052	10E-10L/2	285	281	4/10 5/12
				100				312	
				112				333	
				132				373	
		160	478	0,0310	10E-40H/2	365	373		
		132	478						
		160	602						
		180		0,0310	10E-40H/2	365	660		
		200	666						
		225		0,0310	10E-40H/2	365	666	5/12	
6"	242	1"	BEV-8050 BEV-8056	90	0,0052	10E-10L/2	285	281	5/12 6/16½ 8/16½
				100				312	
				112				333	
				132				373	
		160	478	0,0310	10E-40H/2	365	373		
		132	478						
		160	602						
		180		0,0310	10E-40H/2	365	660		
		200	666						
		225		0,0310	10E-40H/2	365	747	6/16½ 8/16½	
		250		0,0690	16½E-125H/2	365	747		
		280		0,0690	16½E-125H/2	365	820		
		315		0,0690	16½E-125H/2	365	1092	8/16½	
		315-2		0,1724	20E-300H/4	450	1092		

(1) Check P/n for column shaft selection

All dimensions in [mm], except same shaft values

(2) Dimension depends on motor manufacturer

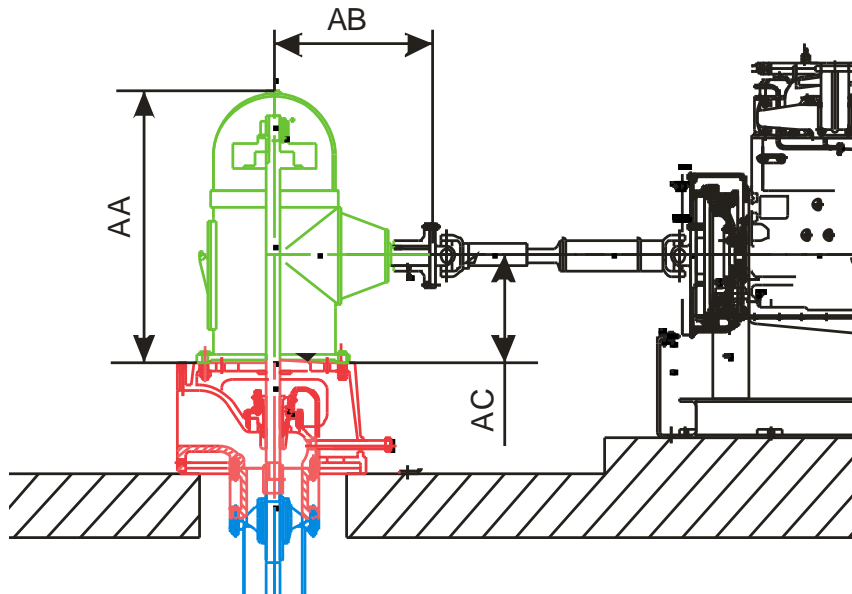
ELECTRIC DRIVEN PUMPS												
COLUMN			PUMP SIZE	IEC MOTOR FRAME	MAX. DRIVE RATING	COUPLING SYSTEM SIZE	B	A (2)	DISCHARGE HEAD SIZE			
G	External Flange Ø	Column shaft Ø (1)			P2 / n [kW / rpm]							
8"	290	1 1/4" 1 1/2" 1 11/16 1 15/16	BEV-1063	90	0,0052	10E-10L/2	285	281	8/16½ 10/20			
				100				312				
				112				333				
				132				373				
				160				478				
			BEV-1066	132	0,0310	10E-40H/2	365	373				
				160				478				
				180				602				
				200				660				
			BEV-1280	225	0,0690	16½E-125H/2	365	747				
				250				820				
			BEV-1286	280	0,1724	20E-300H/4	450	1092				
				315				1465				
			BEV-1486	355	0,1724	20E-300H/4	450	1092				
								1465				
10"	343	1 1/4" 1 1/2" 1 11/16 1 15/16	BEV-1280	90	0,0052	10E-10L/2	285	281	8/16½ 10/20			
				100				312				
				112				333				
				132				373				
				160				478				
			BEV-1286	160	0,0310	10E-40H/2	365	478				
				180				602				
				200				660				
				225				666				
			BEV-1486	250	0,0690	16½E-125H/2	365	747				
				280				820				
			BEV-1486	315	0,1724	20E-300H/4	450	1092				
				355				1465				
			BEV-14D	160	0,0310	10E-40H/2	285	478		10/20		
				180				602				
200	660											
225	666											
BEV-16D												
12"	420	50 60	BEV-14D	250	0,1379	AE-370	670	747	10/20 12/20			
				280				820				
				315				1092				
				355				1465				
				BEV-16D								
BEV-16D	355	0,3103	AE-400	790	1465	12/20						
	400				1625							
	400				1625							
16"	565	50 60	BEV-14D	250	0,1379	AE-370	670	747	16/24			
				280				820				
				315				1092				
			BEV-16D	355				0,3103		AE-400	790	1465
				355								1465
				400								1625

(1) Check P/n for column shaft selection

All dimensions in [mm], except same shaft values

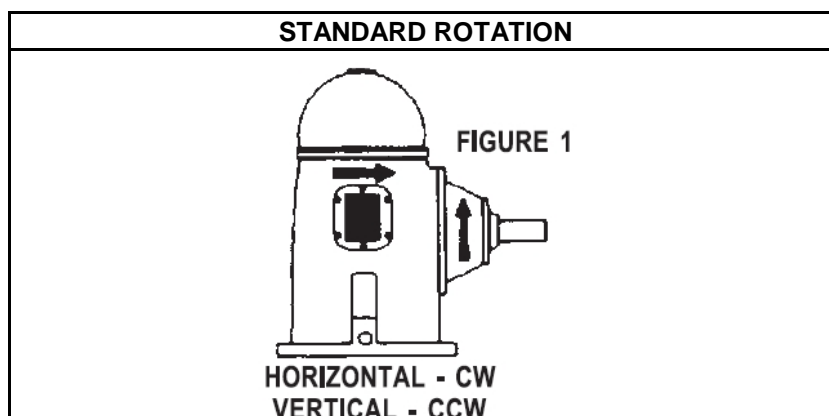
(2) Dimension depends on motor manufacturer

ENGINE DRIVEN BEV PUMPS



RIGHT ANGLE GEAR DRIVE DIMENSIONS				
GEAR DRIVE SIZE	AA		AB	AC
	Type S	Type SL		
S030	414	414	277	172
S040A	553	553	397	216
S060A	713	713	420	293
S100A	713	744	426	293
S125A	744	744	426	293
S150A	748	748	477	293
S200A	882	882	528	350
S250	882	NA	569	350
S300	882		569	350
S350	1100		569	350
S450A	1100	1090	648	407
S500A	1100	1090	648	407
S600A	1100	1090	648	407
S750A	1271	1220	680	458
S1000G	1582	1582	937	534

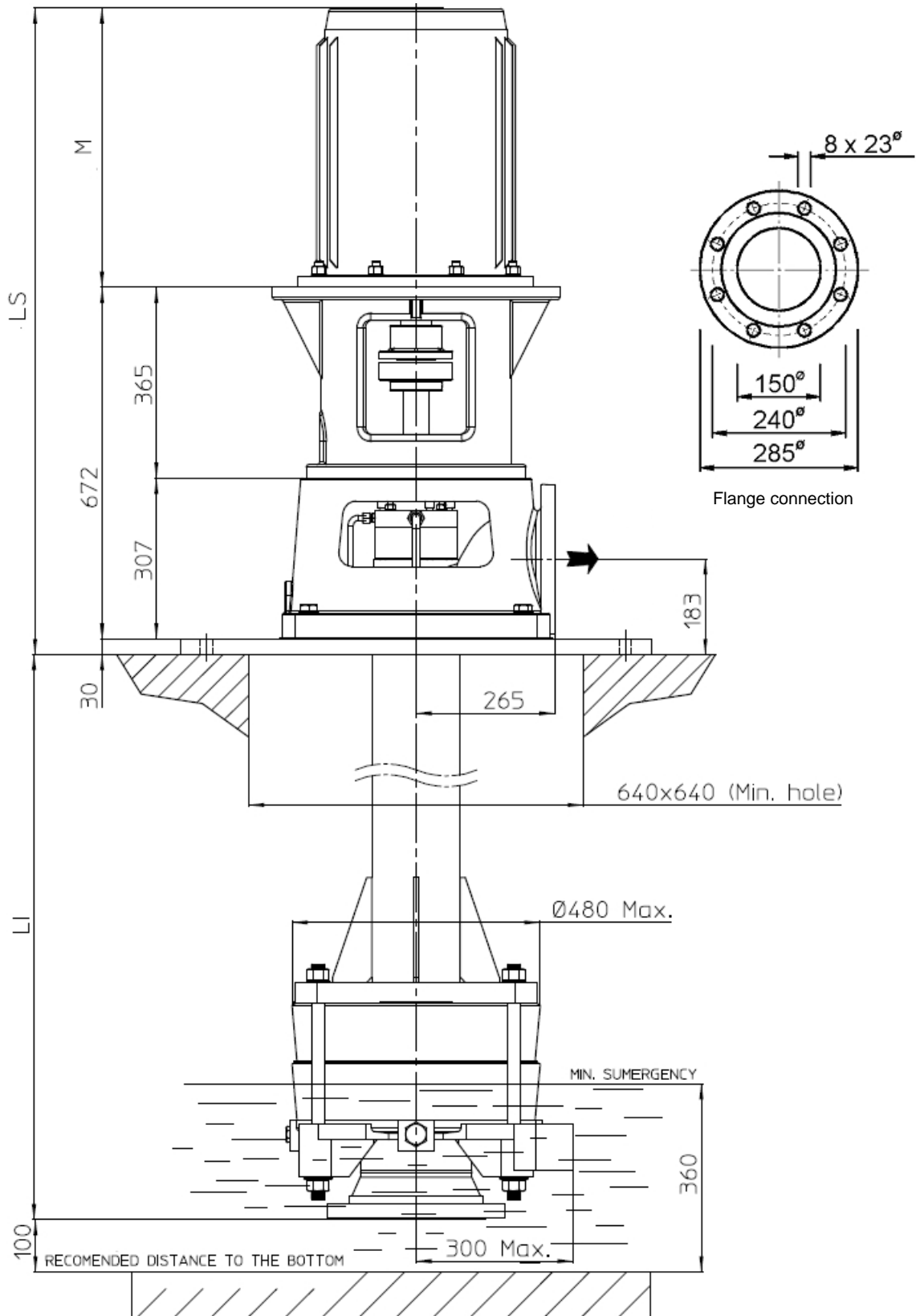
All dimensions in [mm]

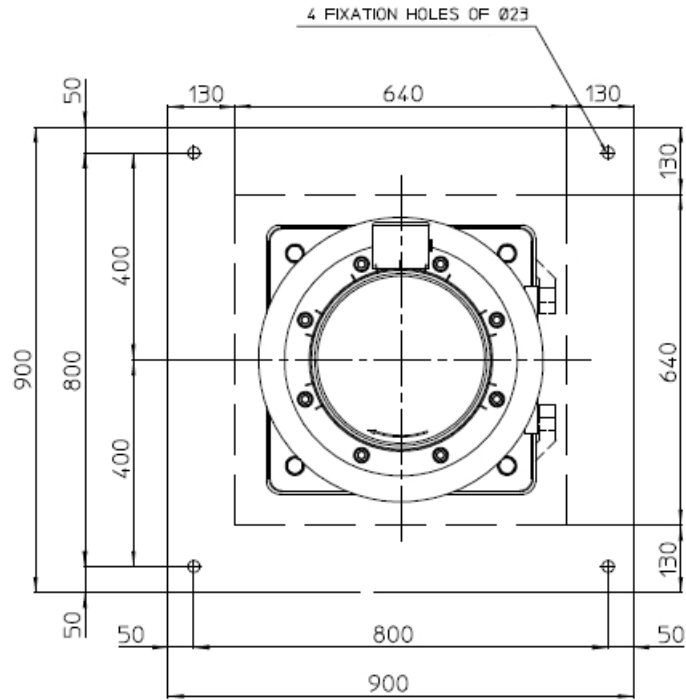


ENGINE DRIVEN PUMP COMBINATIONS									
PUMP SIZE	COLUMN	DISCHARGE HEAD	RIGHT ANGLE GEAR DRIVE SIZE						
6685A	3"	3/10	S030	S040A					
6685B	3"	3/10	S030	S040A					
6056	3"	3/10	S030	S040A					
8000	3"	3/10	S030	S040A					
6685A	3"	4/10	S030	S040A	S060A	S100A			
6685B	3"	4/10	S030	S040A	S060A	S100A			
6056	3"	4/10	S030	S040A	S060A	S100A			
8000	3"	4/10	S030	S040A	S060A	S100A			
6056	4"	3/10	S030	S040A					
8000	4"	3/10	S030	S040A					
8050	4"	3/10	S030	S040A					
8056	4"	3/10	S030	S040A					
6056	4"	4/10	S030	S040A	S060A	S100A			
8000	4"	4/10	S030	S040A	S060A	S100A			
8050	4"	4/10	S030	S040A	S060A	S100A			
8056	4"	4/10	S030	S040A	S060A	S100A			
6056	4"	5/12	S030	S040A	S060A	S100A			
8000	4"	5/12	S030	S040A	S060A	S100A			
8050	4"	5/12	S030	S040A	S060A	S100A			
8056	4"	5/12	S030	S040A	S060A	S100A			
8050	5"	4/10	S030	S040A	S060A	S100A	S125A	S150A	
8056	5"	4/10	S030	S040A	S060A	S100A	S125A	S150A	
1063	5"	4/10	S030	S040A	S060A	S100A	S125A	S150A	
1066	5"	4/10	S030	S040A	S060A	S100A	S125A	S150A	
8050	5"	5/12	S030	S040A	S060A	S100A	S125A	S150A	
8056	5"	5/12	S030	S040A	S060A	S100A	S125A	S150A	
1063	5"	5/12	S030	S040A	S060A	S100A	S125A	S150A	
1066	5"	5/12	S030	S040A	S060A	S100A	S125A	S150A	
8050	6"	5/12	S030	S040A	S060A	S100A	S125A	S150A	
8056	6"	5/12	S030	S040A	S060A	S100A	S125A	S150A	
1063	6"	5/12	S030	S040A	S060A	S100A	S125A	S150A	
1066	6"	5/12	S030	S040A	S060A	S100A	S125A	S150A	
1226	6"	5/12	S030	S040A	S060A	S100A	S125A	S150A	
8050	6"	6/16½	S030	S040A	S060A	S100A	S125A	S150A	
8056	6"	6/16½	S030	S040A	S060A	S100A	S125A	S150A	
1063	6"	6/16½	S030	S040A	S060A	S100A	S125A	S150A	
1066	6"	6/16½	S030	S040A	S060A	S100A	S125A	S150A	
1226	6"	6/16½	S030	S040A	S060A	S100A	S125A	S150A	
8050	6"	8/16½	S030	S040A	S060A	S100A	S125A	S150A	S200 S250
8056	6"	8/16½	S030	S040A	S060A	S100A	S125A	S150A	S200 S250
1063	6"	8/16½	S030	S040A	S060A	S100A	S125A	S150A	S200 S250
1066	6"	8/16½	S030	S040A	S060A	S100A	S125A	S150A	S200 S250
1226	6"	8/16½	S030	S040A	S060A	S100A	S125A	S150A	S200 S250

ENGINE DRIVEN PUMP COMBINATIONS														
PUMP SIZE	COLUMN	DISCHARGE HEAD	RIGHT ANGLE GEAR DRIVE SIZE											
			1063	8"	8/16½	S030	S040A	S060A	S100A	S125A	S150A	S200	S250	
1066	8"	8/16½	S030	S040A	S060A	S100A	S125A	S150A	S200	S250				
1226	8"	8/16½	S030	S040A	S060A	S100A	S125A	S150A	S200	S250				
1280	8"	8/16½	S030	S040A	S060A	S100A	S125A	S150A	S200	S250				
1286	8"	8/16½	S030	S040A	S060A	S100A	S125A	S150A	S200	S250				
1486	8"	8/16½	S030	S040A	S060A	S100A	S125A	S150A	S200	S250				
1063	8"	10/20	S030	S040A	S060A	S100A	S125A	S150A	S200	S250				
1066	8"	10/20	S030	S040A	S060A	S100A	S125A	S150A	S200	S250				
1226	8"	10/20	S030	S040A	S060A	S100A	S125A	S150A	S200	S250				
1280	8"	10/20	S030	S040A	S060A	S100A	S125A	S150A	S200	S250				
1286	8"	10/20	S030	S040A	S060A	S100A	S125A	S150A	S200	S250				
1486	8"	10/20	S030	S040A	S060A	S100A	S125A	S150A	S200	S250				
1280	10"	8/16½	S030	S040A	S060A	S100A	S100A	S125A	S150A	S200	S250			
1286	10"	8/16½	S030	S040A	S060A	S100A	S100A	S125A	S150A	S200	S250			
1486	10"	8/16½	S030	S040A	S060A	S100A	S100A	S125A	S150A	S200	S250			
1280	10"	10/20	S030	S040A	S060A	S100A	S100A	S125A	S150A	S200	S250			
1286	10"	10/20	S030	S040A	S060A	S100A	S100A	S125A	S150A	S200	S250			
1486	10"	10/20	S030	S040A	S060A	S100A	S100A	S125A	S150A	S200	S250			
14D	10"	10/20	S030	S040A	S060A	S100A	S125A	S150A	S200	S250	S300	S350		
16D	10"	10/20	S030	S040A	S060A	S100A	S125A	S150A	S200	S250	S300	S350		
14D	12"	10/20	S100A	S125A	S150A	S200	S250	S300	S350	S450A				
16D	12"	10/20	S100A	S125A	S150A	S200	S250	S300	S350	S450A				
14D	12"	12/20	S100A	S125A	S150A	S200	S250	S300	S350	S450A				
16D	12"	12/20	S100A	S125A	S150A	S200	S250	S300	S350	S450A				
14D	16"	16/24	S100A	S125A	S150A	S200	S250	S300	S350	S450A	S500A	S600A	S750A	S1000G
16D	16"	16/24	S100A	S125A	S150A	S200	S250	S300	S350	S450A	S500A	S600A	S750A	S1000G
20B	16"	16/24	S100A	S125A	S150A	S200	S250	S300	S350	S450A	S500A	S600A	S750A	S1000G
22B	16"	16/24	S100A	S125A	S150A	S200	S250	S300	S350	S450A	S500A	S600A	S750A	S1000G

BEV-LO Series





OPTIONS: PUMP UPPER LENGHT

MOTOR SIZE	LS [mm]	M [mm]
225M/S	1448	746
250M	1527	825
280S	1522	820
280M	1633	931

OPTIONS: PUMP LOWER LENGHT

DENM.CODE	LI [mm]
BEV-LO-1000	1000
BEV-LO-1200	1200
BEV-LO-1400	1400
BEV-LO-1600	1600
BEV-LO-1800	1800
BEV-LO-2000	2000
BEV-LO-2200	2200
BEV-LO-2400	2400

13. Coating

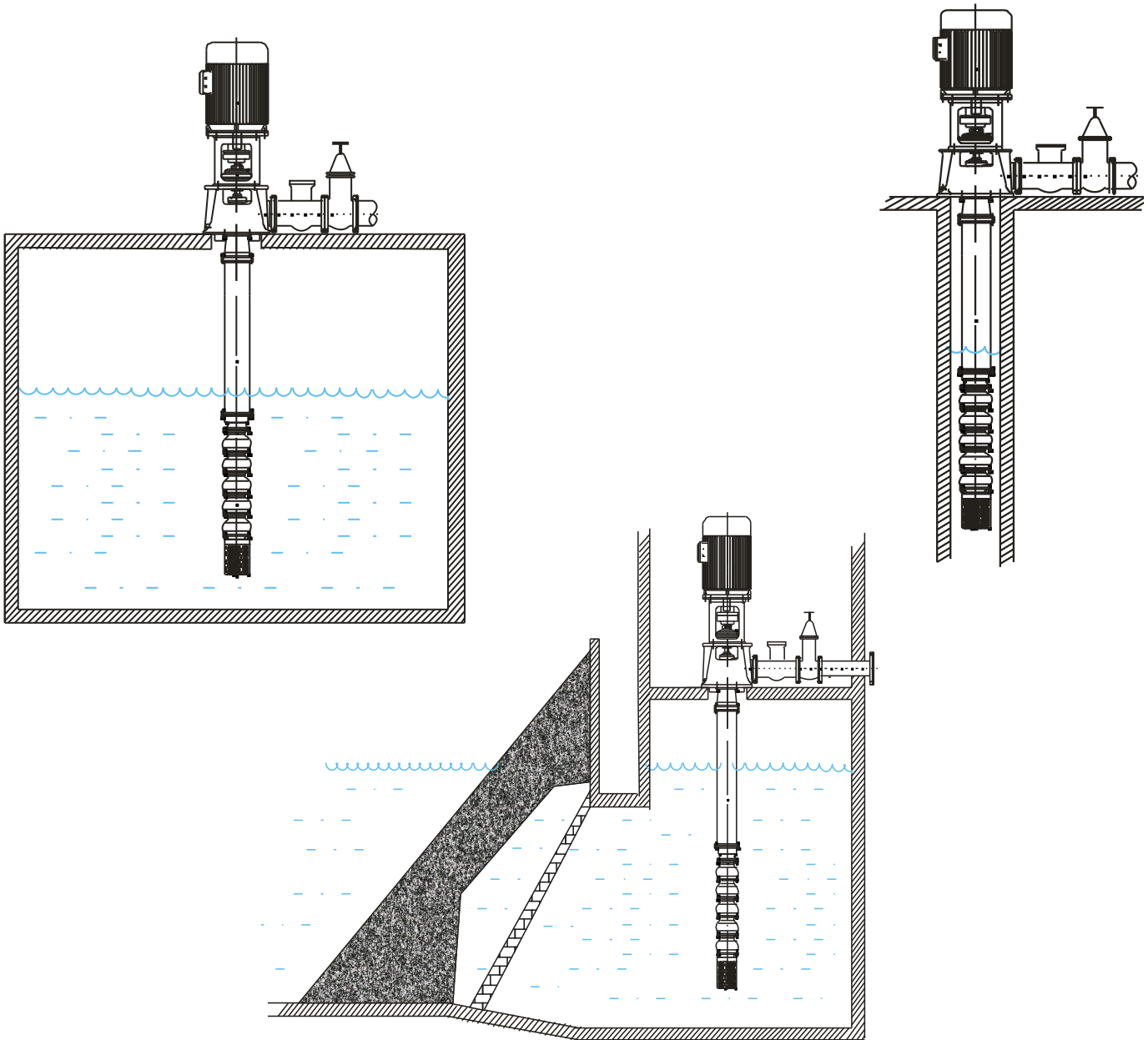
Single coat of 40 microns thickness water basis enamel with finish colour blue RAL 5002. Painted surface maximum temperature 70 °C. According to E1 painting procedure. Other coatings upon request.

14. Recommended spare parts stock for two years continuous operation

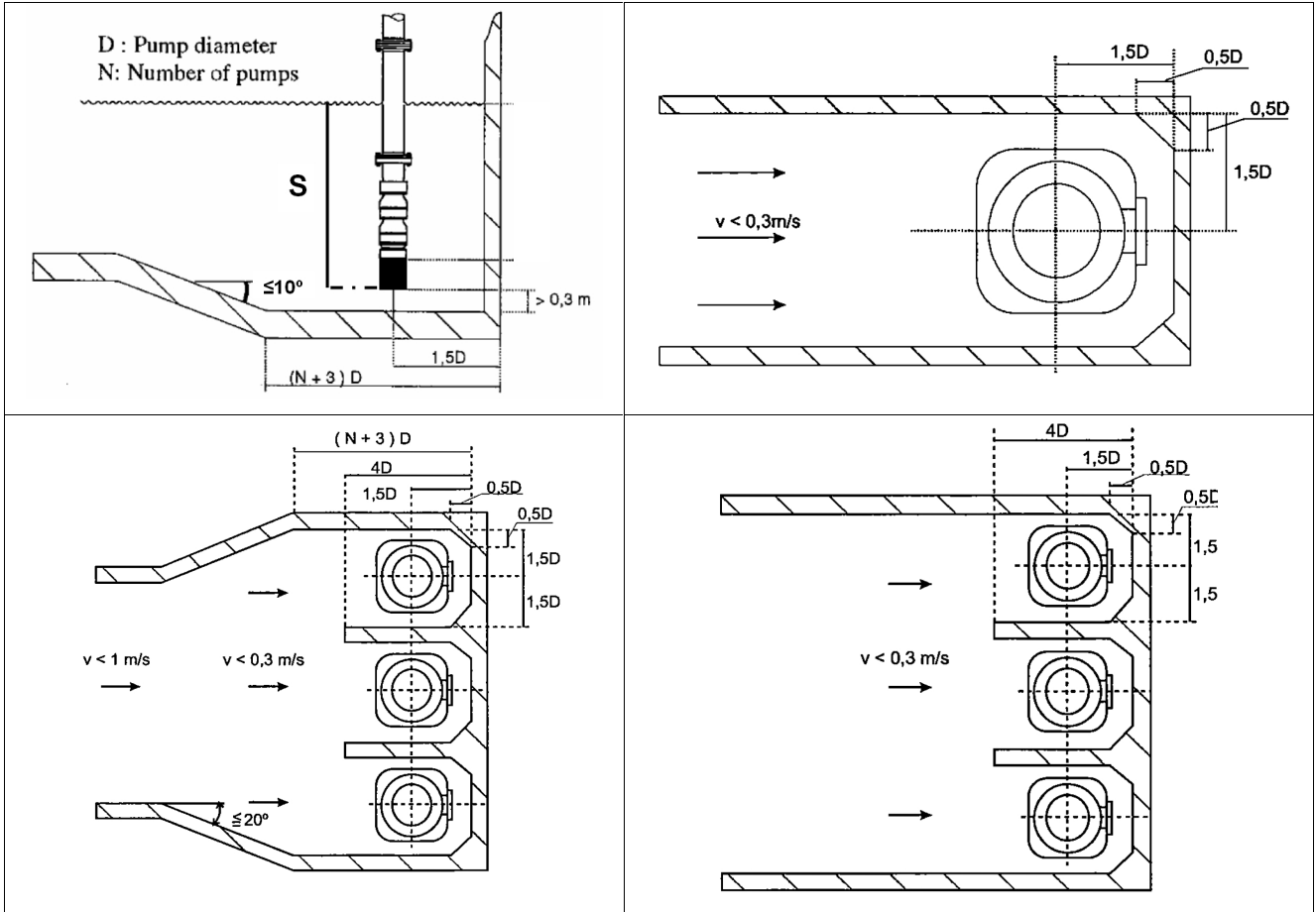
BEV								
Ref.	Denomination	Number of pumps (including stand-by pumps)						
		1-2	3	4	5	6-7	8-9	10 and more
---	Joints (set)	2	3	4	5	6	7	90%
461	Packing	2	3	4	5	6	7	90%
320	Bearing (set)	1	1	2	2	2	3	30%
502	Wear ring	1	1	2	2	2	3	30%
507	Deflector protection	1	1	2	2	2	3	30%
922	Impeller nut	1	1	2	2	2	3	30%
932	Circlip (set)	1	1	2	2	2	3	30%
940	Keys (set)	1	1	2	2	3	4	50%
211	Pump shaft	1	1	2	2	2	3	30%
212	Intermediate drive shaft (set)	1	1	2	2	2	3	30%
230	Impeller	1	1	2	2	2	3	30%

BEV-LO								
Ref.	Denomination	Number of pumps (including stand-by pumps)						
		1-2	3	4	5	6-7	8-9	10 and more
---	Joints (set)	2	3	4	5	6	7	90%
320	Bearing (set)	1	1	2	2	2	3	30%
381	Bearing cartridge	1	1	2	2	2	3	30%
421	Seal (set)	1	1	2	2	2	3	30%
502	Wear ring	1	1	2	2	2	3	30%
525	Spacer sleeve	1	1	2	2	2	3	30%
529	Bearing bush	1	1	2	2	2	3	30%
561	Grooved pin	1	1	2	2	2	3	30%
507	Deflector protection	1	1	2	2	2	3	30%
922	Impeller nut	1	1	2	2	2	3	30%
932	Circlip (set)	1	1	2	2	2	3	30%
940	Keys (set)	1	1	2	2	3	4	50%
211	Pump shaft	1	1	2	2	2	3	30%
230	Impeller	1	1	2	2	2	3	30%
231	Suction impeller	1	1	2	2	2	3	30%
840	Coupling	1	1	2	2	2	3	30%

15. Application sketches



Some diagrams of the layout of the pumps and the capture construction are indicated below.





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