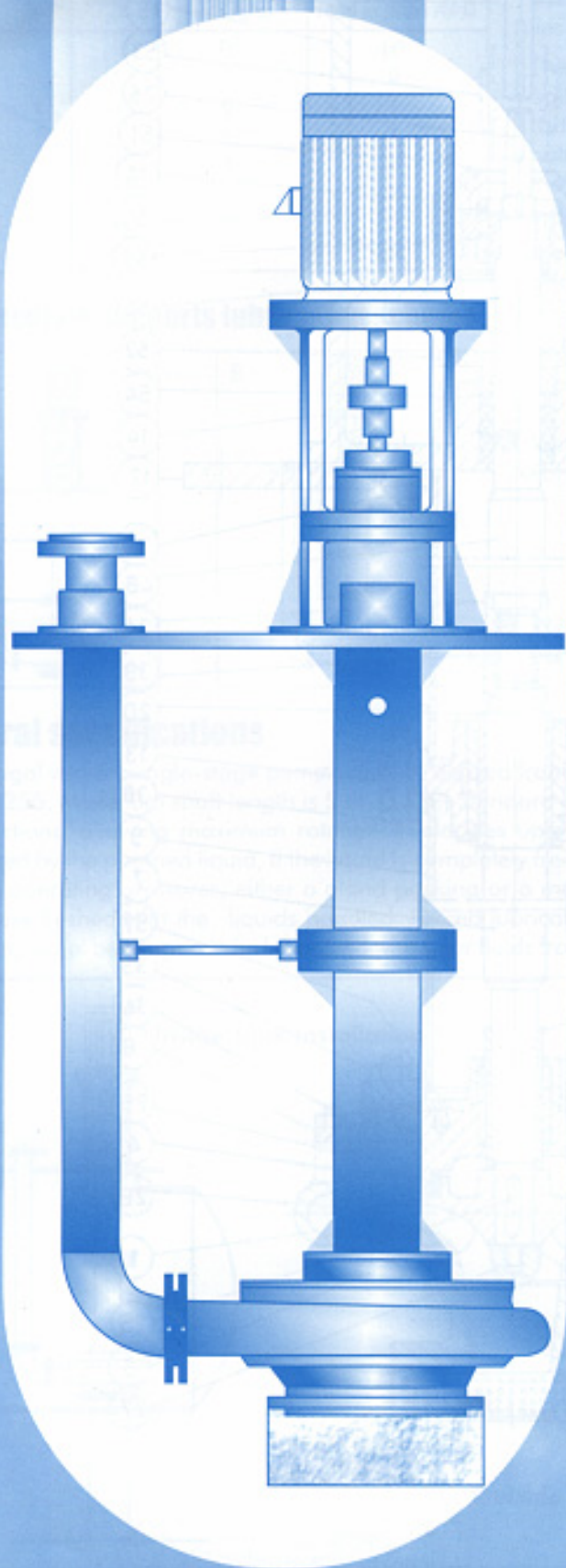




**ACCV
VERTICAL
SUBMERGED
PUMPS**

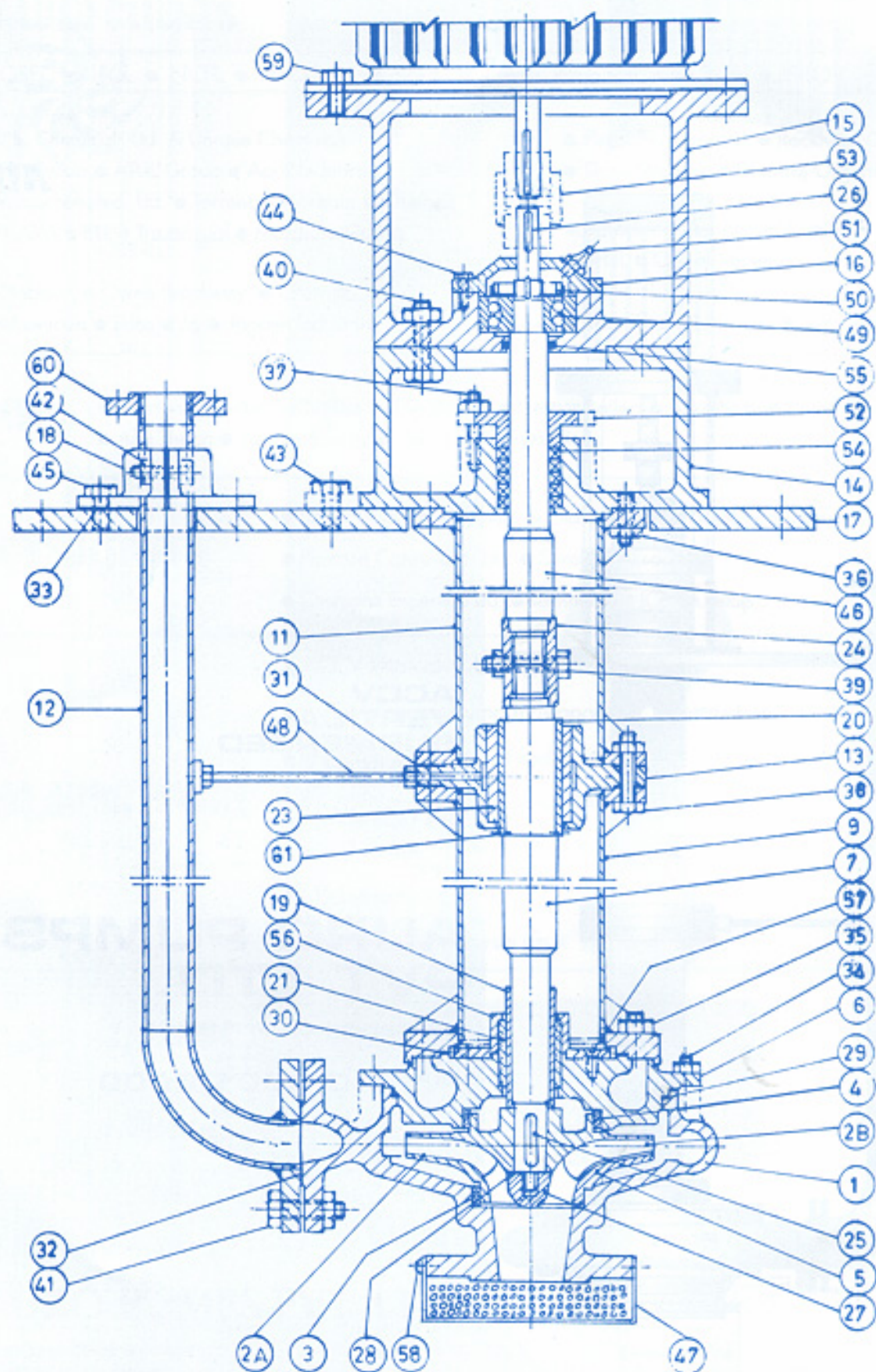
FROM

**AURO PUMPS
PVT. LTD.**

(Established in 1984)

AN ISO 9001-2000

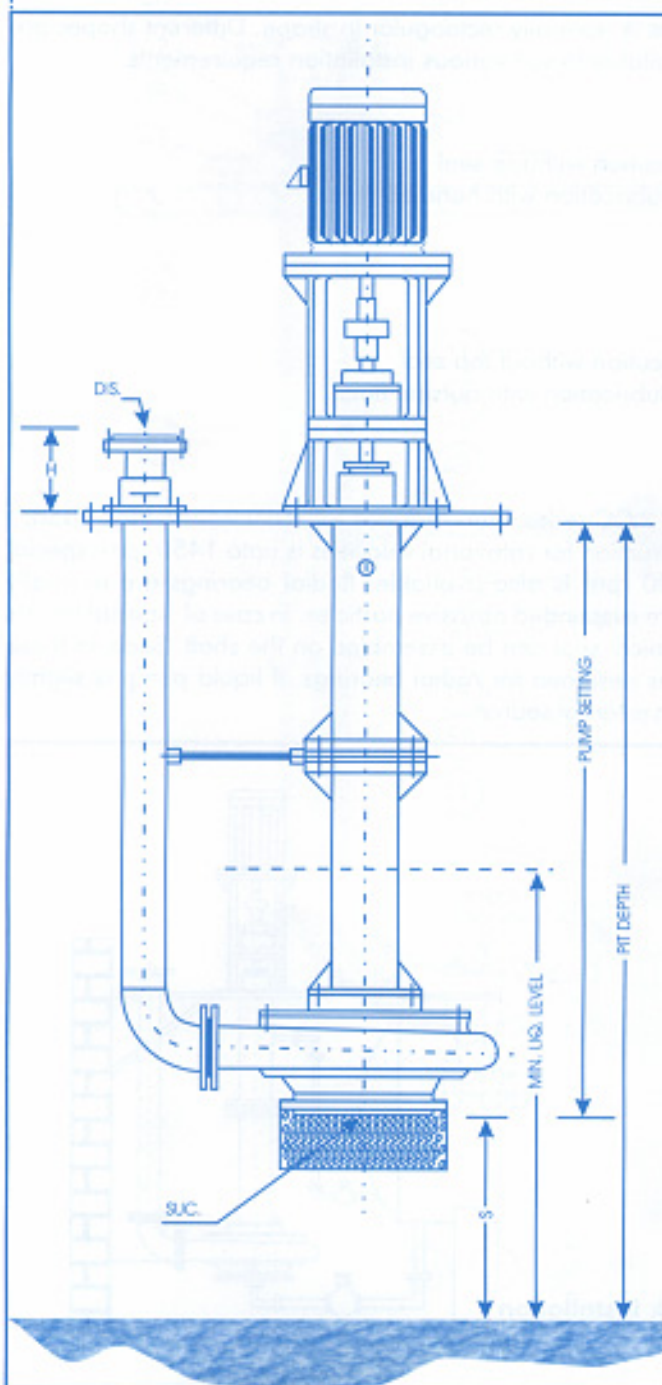
IN TECHNICAL COLLABORATION WITH POMPE VERGANI S.p.A. ITALY



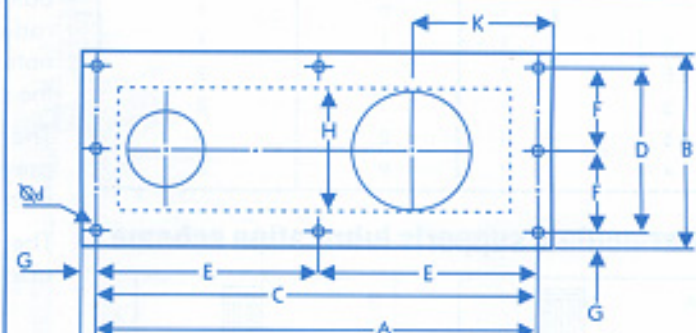
Parts List & Material of Construction

SR. NO.	NO.	PART NAME	MATERIAL						
1	1	CASING	CI	CS	CF-8	CF-8M	A-20	HAST.	
2A	1	IMPELLER (CLOSED)	CI	CS	BR	CF-8	CF-8M	A-20	HAST.
2B	1	IMPELLER (SEMI OPEN)	CI	CS	BR	CF-8	CF-8M	A-20	HAST.
3	1	CASING WEAR RINGS	CI	CS	BR	CF-8	CF-8M	A-20	HAST.
4	1	ST. BOX WEAR RINGS	CI	CS	BR	CF-8	CF-8M	A-20	HAST.
5	1	WEAR PLATE IN CASE OF SEMI OPEN IMPELLER	CI	CS		CF-8	CF-8M	A-20	HAST.
6	1	ST. BOX (IMP SIDE)	CI	CS		CF-8	CF-8M	A-20	HAST.
7	1	IMPELLER SHAFT	EN8	SS410		SS316			
8	*	LINE SHAFT (NOT SHOWN)	EN8	SS410		SS316			
9	1	COLUMN PIPE (LOWER)	MS		CF-8	CF-8M	A-20	HAST.	
10	*	COLUMN PIPE (MIDDLE) (NOT SHOWN)	MS		CF-8	CF-8M	A-20	HAST.	
11	1	COLUMN PIPE (UPPER)	MS		CF-8	CF-8M	A-20	HAST.	
12	1	DELIVERY PIPE	MS		CF-8	CF-8M	A-20	HAST.	
13	*	SPIDER	CI		CF-8	CF-8M	A-20	HAST.	
14	1	ST. BOX (MOTOR SIDE)			CI				
15	1	MOTOR SKIRT			CI				
16	1	BEARING COVER			CI				
17	1	MOUNTING PLATE			MS				
18	PAIR	CLAMP FOR DELIVERY PIPE			CI				
19	1	SHAFT SLEEVE		SS316			A-20	HAST.	
20	*	SPIDER SLEEVE		SS316			A-20	HAST.	
21	1	BRG. BUSH (IMP. SIDE)		GM/GFT/BFT/PTFE					
23	*	BRG. BUSH (SPIDER SIDE)		GM/GFT/BFT/PTFE					
24	*	LINE SHAFT COUPLINGS			SS316		A-20	HAST.	
25	1	KEY FOR IMPELLER	EN8	SS410		SS316			
26	1	KEY FOR COUPLING			EN8				
27	1	IMPELLER LOCK NUT	EN8		CF-8M		A-20	HAST.	
28	1	GASKET, IMP. LOCK NUT	CHAMP.	STYLE39/CHAMP.	STYLE60/PTFE				
29	1	GASKET CASING /ST.BOX	CHAMP.	STYLE39/CHAMP.	STYLE60/PTFE				
30,31	1	GASKET, ST.BOX /COL. PIPE	CHAMP.	STYLE39/CHAMP.	STYLE60/PTFE				
32,33	1	GASKET, DELIVERY PIPE DEL. PIPE CLAMP	CHAMP.	STYLE 39/CHAMP.	STYLE 60/PTFE				
34	8,12,16,20	STUD, NUT, CASING/ST. BOX	HT		SS304	SS316	A-20	HAST.	
35	4,6	STUD, NUT, ST. BOX/COL. PIPE	HT		SS304	SS316	A-20	HAST.	
36	4,6,8	STUD, NUT, COL. PIPE/MOTOR SIDE ST. BOX	HT		SS304	SS316	A-20	HAST.	
37	2	STUD, NUT, GLAND	HT						
38	*	BOLT, NUT, SPIDER	HT		SS304	SS316	A-20	HAST.	
39	*	BOLT, NUT, LINE SHAFT COUPLING	HT		SS304	SS316	A-20	HAST.	
40	4	BOLT, NUT, ST. BOX/MOTOR SKIRT	HT			HT			
41	4,8	BOLT, NUT, CASING/DEL. PIPE	HT		SS304	SS316	A-20	HAST.	
42	2	BOLT, NUT, DEL. PIPE CLAMP				HT			
43,44,45	4	BOLT, MOTOR SIDE ST. BOX BRB. COVER D.P. CLA, FIX				HT			
46	1	HEAD SHAFT	EN8	SS410		SS316			
47,48	1	* STRAINER LUBRICATION OR FLUSH LINE	MS		SS304	SS316			
49,50,51	1	BALL BEARING NUT WASHER GREASE NIPPLE			STEEL				
52,53	1	GLAND FLEXIBLE COUPLING			CI				
54	5	GLAND PACKING			ASBESTOS				
55	1	FELT PACKING			FELT				
56	1	BUSH CLAMP	CI	CS	CF-8	CF-8M	A-20	HAST.	
57,58	4	COUNTER SUNK SCREW CH. HEAD SCREW	HT		SS304	SS316	A-20	HAST.	
59	4,8	BOLT MOTOR SKIRT / MOTOR			HT				
60	1	DISCHARGE FLANGE	MS		CF-8	CF-8M	A-20	HAST.	
61	2	GRUB SCREW	HT		SS304	SS316	A-20	HAST.	
*		QUANTITY DEPENDS ON SUMP DEPTH							

M. PLT. BRG. BKT.	ALL DIMENSIONS IN M.M.											
	A	B	C	D	E	F	G	H	J	K	THK	Ød
T9A	600	450	550	400	---	---	25	350	500	220	12	14
T9	750	450	700	400	---	---	25	350	650	250	12	14
T10	800	500	750	450	375	---	25	400	700	250	16	19
T10A	850	600	790	570	395	---	30	470	720	285	16	19
T11	1200	750	1140	690	570	345	30	620	1070	400	22	24
T13	1600	1000	1530	930	765	465	35	850	1450	500	22	24



Mounting Plate



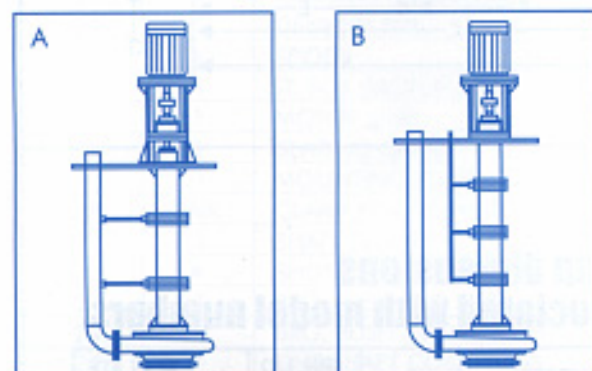
Pump dimensions associated with model numbers

PUMP MODEL	S	MIN. LIQ. LEVEL	H	M. PLATE BRG. BKT.
25 x 25 - 160	120	360	150	T 9 A
50 x 32 - 125	120	360		
40 x 25 - 160	120	360		
40 x 25 - 200	120	360		T 9
50 x 32 - 160	120	360		
65 x 40 - 160	120	360		
65 x 50 - 160	140	440		T 10
50 x 32 - 200	120	360		
65 x 40 - 200	140	440		
65 x 50 - 200	140	440		
80 x 65 - 160	140	440		T 10 A
80 x 65 - 200	160	460		
100 x 80 - 160	160	535		
50 x 32 - 250	160	460	150	T 11
65 x 40 - 250	160	460		
65 x 50 - 250	160	460		
80 x 65 - 315	170	545		
100 x 65 - 315	200	575		
125 x 80 - 315	200	575		
80 x 65 - 250	180	480		
100 x 80 - 250	200	575		
100 x 80 - 200	170	545		
125 x 100 - 200	180	555		
125 x 100 - 315	200	620		
150 x 125 - 315	250	670		
125 x 100 - 250	200	620	150	T 13
150 x 125 - 250	200	620		
200 x 150 - 250	250	730		
200 x 150 - 315	280	760		
250 x 200 - 315	280	880		
125 x 100 - 400	250	670	150	T 13
150 x 125 - 400	250	670		
200 x 150 - 400	280	760		
250 x 200 - 400	280	880		

Supporting scheme

Axis length (m)	Top thrust ball bearing n°	bottom line bearing n°	Intermediate line bearing	
			for n < 1450 RPM	for n from 1450 to 2900 RPM
1	1	1	n°	n°
1.5	1	1	0	0
2	1	1	0	1
2.5	1	1	1	1
3	1	1	1	2
3.5	1	1	2	2
4	1	1	2	3

Intermediate supports lubrication scheme



A Wet execution with top seal
Forced lubrication with handled fluid

B Wet execution without top seal
Forced lubrication with outside fluid

General specifications

Centrifugal vertical single-stage pumps, directly derived from our ACC series in accordance with DIN 24256 (ISO 2858) / DIN 24255. Maximum shaft length is 5 m. (15 ft.) Standard construction for rotational velocities is upto 1450 rpm, special constructions, allowing maximum rotational velocities upto 2900 rpm is also available. Radial bearings are normally lubricated by the pumped liquid, if the liquid is completely free from suspended abrasive particles. In case of special liquids or high operating pressures, either a gland packing or a mechanical seal can be assembled on the shaft. Seals in these cases; are flushed with the liquids handled. Forced lubrication is designed for radial bearings. If liquid pump is slightly abrasive, radial bearings can be lubricated with clear fluids from an external source.

Design

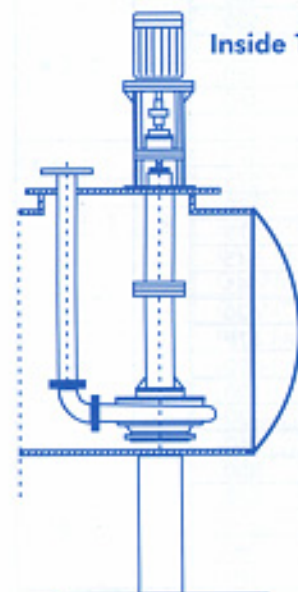
The pumps are centrifugal, single-stage; with downward axial suction. Radial discharge is free for connections to the pipes as it is directly flanged to the discharge pipe, whose upper flange lies in a horizontal plane above the plate.

The shaft is supported on its upper end by a grease lubricated ball bearing. Lateral support of the shaft is obtained through radial bearings made from various anti-friction materials (GFT, natural & synthetic rubbers, Bronze); selected in accordance to the specifications of the fluids handled.

The simplest construction consists of a packing ring which prevents loss of grease from the bearing housing; and vapour & odour leakage from the tank.

The plate is normally rectangular in shape. Different shapes are also available to suit various installation requirements.

Inside Tank Installation



Outside Tank Installation

