



AHREUK

PUMPS CATALOG



Introduction of Company

AHREUK which was established 1965 and consistently led the sector of pump manufacturing is now developing into domestic and overseas global enterprise through endless challenge and innovation on the basis of upgraded technical capability.

Being recognized as specialized brand among pump industries of this country, we are now focusing on the growth by manufacturing and supplying various pumps from the one for large scale plant industry to the one for agriculture and irrigation, city water and drain, and chemical industry.

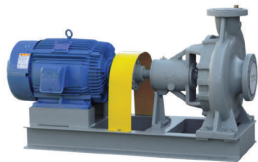
In order to manufacture and supply perfect products on the basis of accumulated technology and abundant know-how, strict selection of raw materials and intensive quality control are conducted and the best products are supplied with excellent workmanship, and thorough customer service.

We will take off again for new growth on the basis of technical innovation, customer-centered management, and the challenging spirit for a better future with advanced creative management. Your attention and encouragement are appreciated and our field of service will be rapidly expanded on the basis of trust and confidence together with customers.

CEO : JooHan Kim



Contents



ARCO-N
Single Suction Volute Pump



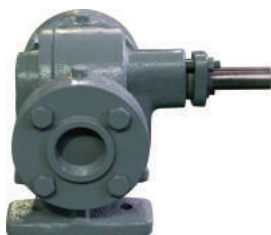
ARL
In-line Pump



ARPP / ARNS
Vertical Drain Pump



ARNW
Westco Pump



ARG
Helical Gear Pump



ARMDV
Multi Stage Volute Pump



ARWL
Vortex Pump



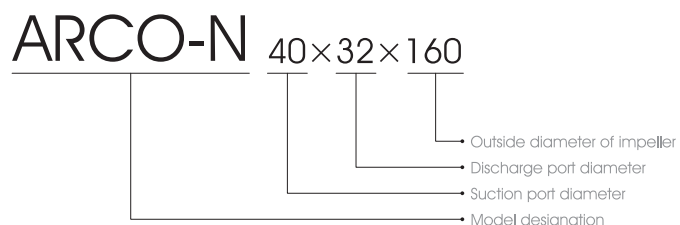
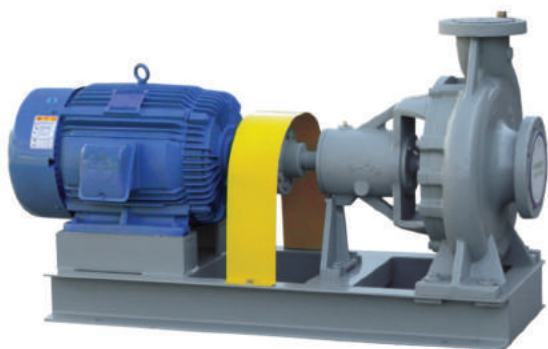
ARLPM
Direct Volute Pump



ARVS
Vertical Drain Pump

04	ARCO-N	Single suction volute pump
06	ARCO-O	Single suction volute pump
08	ARMDV	Multi-stage volute pump
10	ARL	In-line pump
11	ARSP	Self-suction type pump for industry
12	ARSV	Direct-coupled volute pump
13	ARDSP	Direct-coupled self-suction type pump for agricultural water
15	ARMP	Direct-coupled self-suction type pump
16	ARWL	Vortex pump
18	ARPP/ARNS	Vertical type PVC pump / Vertical type Stainless steel pump
19	ARLPM	Stainless steel direct-coupled volute pump
20	ARNW/ARW	Wesco pump
22	ARVS	Vertical type drain pump
23	ARG	Gear pump
24	AREP/ARCE	Engine pump / Submersible cutter pump
27	ARBS	Submersible drain pump
29	ARGR	Submersible pulverizing type pump
30	ARVT	Submersible vortex pump for sewage
31	ARTV	Drain pump for civil work

ARCO-N Single Suction Volute Pump



※ Material : GC200, SSC13, SSC14, HASTELLOY.and so forth

Maximum flow rate range (m ³ /min)	0.1~11	Rotational direction	CW
Maximum lift (m)	~80	Maximum suction lift (m)	-6~-7m
Operation temperature range (°C)	~90°C	Flange dimension	KS 10kg/cm ²
Allowable injection pressure (kg/cm ² G)	10K	Flange location	END / TOP

◆ Features

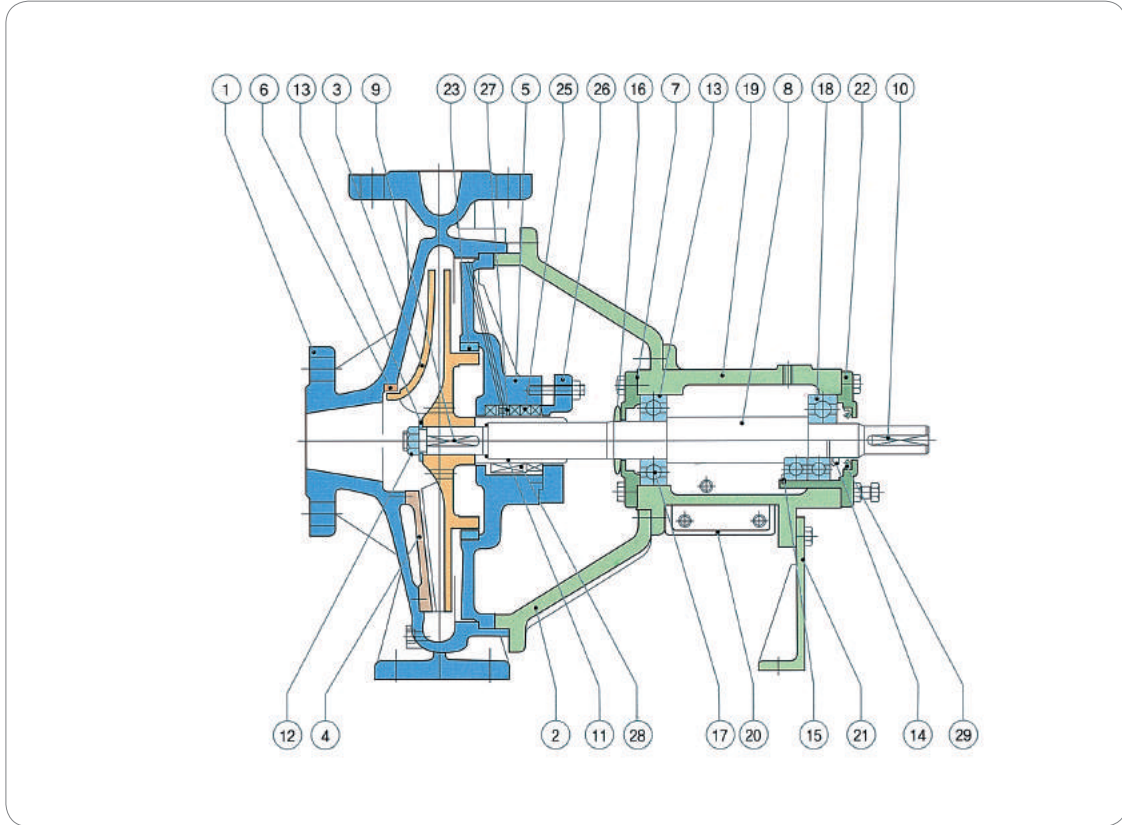
- Design is carried out so as to have easy maintenance without disassembling the suction and discharge piping.
- Design is conducted in such a way that the air comes out of itself without air vent, and as balanced forces are received, alignment becomes excellent, therefore, the life of product is extended and piping installation is simple.
- The product is designed in such a way that the cooling jacket can be attached for operation when the temperature of water is high, and as the installing size of gland packing and mechanical seal is designed to be identical with each other, replacement can be conducted with minimum cost.
- As the product is designed so that closed or opened impeller can be used, either of them can be selected in accordance with the application.
- The product is designed so that external flushing or self-flushing can be conducted when the temperature of liquid is high or when the number of rotation is 3550 rpm, therefore, the life of bearing is extended and as such, very economical operation can be accomplished.
- Compared to the products of other manufacturers, ARCO PUMP which is based on special design has wide operation range with high efficiency and is very economical as its power loss is small.

◆ Applications

- For general industry • For chemical industry • For household water • For water supply facilities and buildings • For water treatment • For cooling and heating circulation • For irrigation and ship • For sprinkler • For sanitation • For agricultural water

ARCO-N Single Suction Volute Pump

◆ Sectional Drawing



Standard

Part No.	Name of Part	Materials
01	Casing	GC200
02	Bracket	GC200
03	Impeller	GC200
04	Side Plate (In the case of the open type of impeller)	GC200
05	Stuffing Box	GC200
06	Wear Ring	BC6
07	Gasket	RUBBER
08	Shaft	SM45C
09	Impeller key	SM55C
10	Coupling key	SM55C
11	Sleeve	BC6
12	Impeller Nut	SM45C
13	Imp. Washer	SM45C
14	Bearing Nut	SM45C

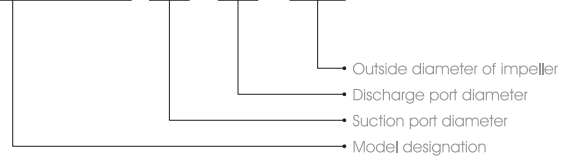
Standard

Part No.	Name of Part	Materials
15	Snap Ring	SM25C
16	Deflector	RUBBER
17	Ball Bearing (In)	STEEL
18	Ball Bearing (Out)	STEEL
19	Bearing Housing	GC200
20	Water Jacket (Optional specification)	GC200
21	Support	GC200
22	Bearing Cover	GC200
23	Wearing	BC6
25	Gland Packing	Carbonized fiber, TEFLON
26	Gland	GC200
27	Lantern Ring	BC6
28	Mechanical Seal	SIC/CARBON
29	Oil Seal (Optional specification)	RUBBER

ARCO-O Single suction volute Pump



ARCO-O 40×32×160



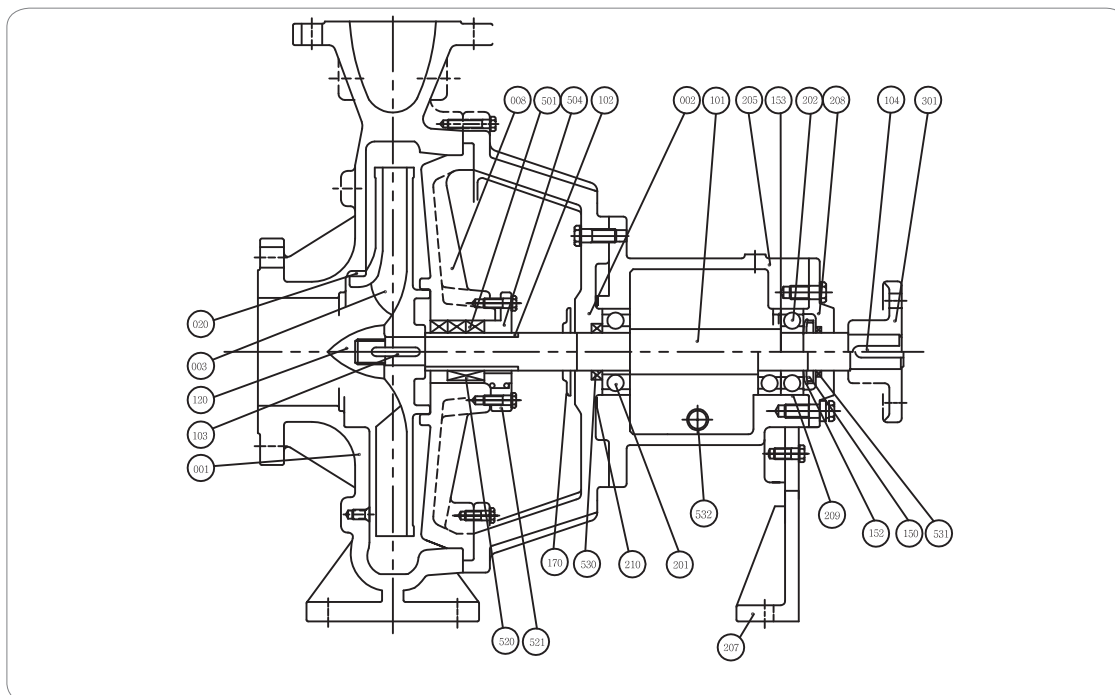
※ Material : GC200, SSC13, SSC14, HASTELLOY.and so forth

◆ Sectional Drawing

PUMP FEATURE	CUSTOMER BENEFITS
FOOT MOUNTED & BACK PULLOUT DESIGN	Design is carried out so as to have easy maintenance without disassembling the discharge and suction piping.
VERTICAL CENTERLINE DISCHARGE	Design is conducted in such a way that the air comes out of itself without air vent, and as balanced forces are received, alignment becomes excellent, therefore, the life of product is extended and piping installation is simple.
VERSATILE STUFFING BOXES	The product is designed in such a way that the cooling jacket can be attached for operation when the temperature of water is high, and as the installing size of gland packing and mechanical seal is designed to be identical with each other, replacement can be conducted with minimum cost.
CHOICE OF IMPELLER	As the product is designed so that closed or opened impeller can be used, either of them can be selected in accordance with the application.
WATER COLLED BEARING HOUSHING	The product is designed so that external flushing or self-flushing can be conducted when the temperature of liquid is high or when the number of rotation is 3550 rpm, therefore, the life of bearing is extended and as such, very economical operation can be accomplished
HIGH EFFICIENCY IMPELLER	Compared to the products of other manufacturers, ARCO PUMP which is based on special design has wide operation range with high efficiency and is very economical as its power loss is small.

MATERIALS OF CONSTRUCTION			
PUMP PART	CLASS	CLASS	CLASS
BRACKET	CAST IRON	CAST IRON	CAST IRON
	GC200	GC200	GC200
CASING	CAST IRON	CAST STEEL	CAST STEEL
	GC200, Optional specification(GCD450)	SSC13, Optional specification(SSC14,SSC16)	SC410
IMPELLER	CAST IRON	CAST STEEL	CAST STEEL
	GC200	SSC13, Optional specification(SSC14,SSC16)	SC410
MECHANICAL SEAL	BODY	STS304, Optional specification(STS316,HASTEELLOY-C)	
	SEAL RING	SIC/CARBON, Optional specification(SIC/SIC,TC/TC)	
	PACKING	VITON, Optional specification(EPDM,TEFLON)	
PACKING	Carbonized fiber or TEFLON/GRAPHITE impregnation		
BEARING HOUSHING	CAST IRON	CAST IRON	CAST IRON
	GC200	GC200	GC200
SHAFT	CARBON STEEL	STAINLESS STEEL	CARBON STEEL
	SM45C	STS304, Optional specification(STS316,STS316L)	SM45C
SLEEVE (Optional specification)	BC6,STS304	STS304, Optional specification(STS316,STS316L)	BC6, STS304
STUFFING BOX	CAST IRON	CAST STEEL	CAST STEEL
	GC200, Optional specification(GCD450)	STS304, Optional specification(STS316,STS316L)	SC410
GLAND	CAST IRON	CAST STEEL	CAST STEEL
	GC200, Optional specification(GCD450)	STS304, Optional specification(STS316,STS316L)	SC410

◆ Sectional Drawing



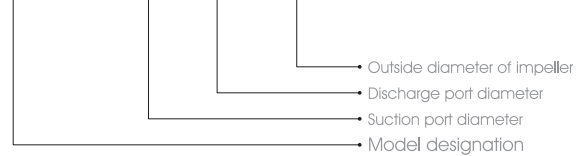
Part No.	Name of Part	Materials
01	Casing	GC200
02	Bracket	GC200
03	Impeller	GC200
08	Stuffing Box	GC200
20	Wearing Ring	
101	Shaft	SM45C
102	Sleeve	STS304
103	Impeller Key	SM45C
104	Coupling Key	SM45C
120	Impeller Nut	SM45C
150	Bearing Nut	SM45C
152	Bearing Washer	SM45C
153	Snap Ring	STEEL
170	Flinger	RUBBER

Part No.	Name of Part	Materials
201	Ball Bearing (IN)	STB
202	Ball Bearing (OUT)	STB
205	Bearing Housing	GC200
207	BGR Support Foot	GC200
208	Bearing Cover	GC200
209	O-Ring	RUBBER
210	O-Ring	RUBBER
301	Gland Packing	GC200
501	Gland Packing	
504	Gland Packing	
520	Mechanical Seal	SIC/CB
521	Mech, Seal Cover	GC200
530	Oil Seal	VITON
531	Oil Seal	VITON

ARMDV Multi Stage Volute Pump



ARMDV 65×50 - 4stage



※ Material : GCD450,SSC13,SSC14, HASTELLOY

Maximum flow rate range (m ³ /min)	0.1~4.0	Rotational direction	CW
Maximum lift (m)	20~200	Maximum suction lift (m)	-6~-7m
Operation temperature range (°C)	~90°C	Flange dimension	KS 10kg/cm ²
Allowable injection pressure (kg/cm ² G)	10K or 16K	Flange location	END / TOP

◆ Features

- Unlike turbine pump, multi-stage volute pump does not have any guide vane, therefore, its performance is excellent, and suction casing, discharge casing and intermediate casing are connected with 4 tension bolts, and the connecting section of each casing is sealed with gasket and axial thrust force is completely prevented by attaching balance disk, and in the case of the product with more than 3 stages, two units of bearings are used for preventing the axial thrust force additionally so that its life is further extended.
- Its performance is more excellent than other similar pumps due to the unique design, precise machining, and excellent quality control, and strict balancing, sturdy structure, and low price are the characteristics of this product.

◆ Applications

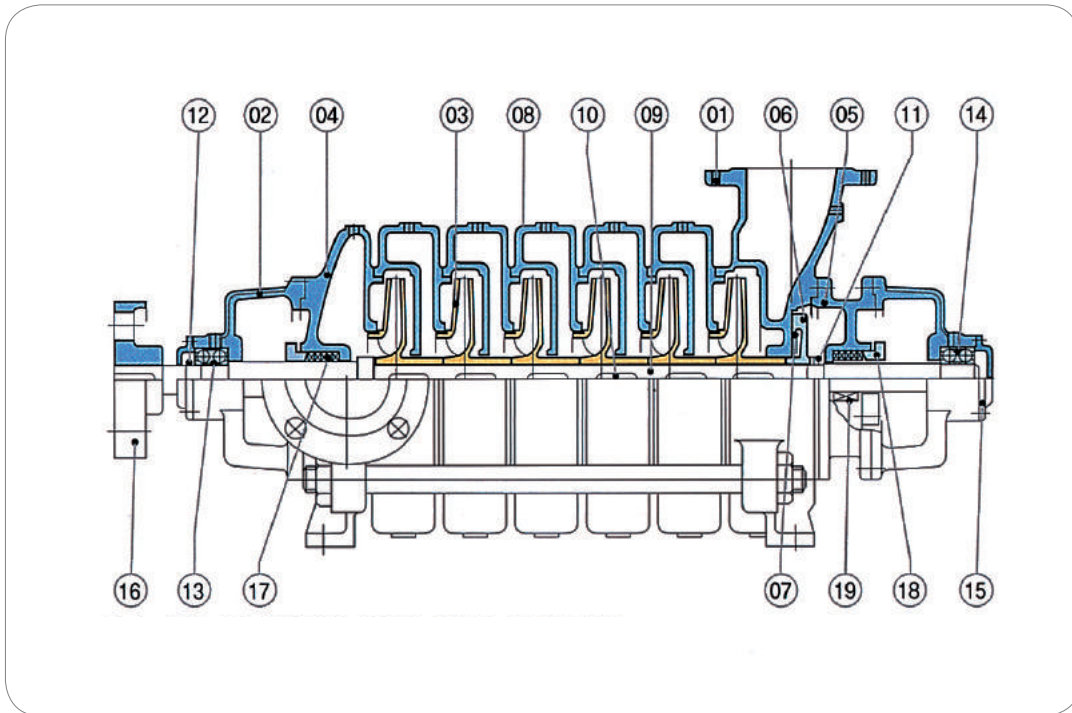
- For general industry • For water supply facilities and building fire prevention • For sprinkler • For cooling and heating circulation • For chemical industry
- For water supplying to high rise building

Model	Size		Capacity m ³ /min	Head / Power						
	Suc.	Dis.		2Stage	3Stage	4Stage	5Stage	6Stage	7Stage	8Stage
ARMDV-50	50	50	0.25	30 / 3	45 / 5	60 / 7.5	75 / 10	90 / 10	105 / 15	115 / 15
ARMDV-65	65	50	0.4	34 / 7.5	51 / 10	68 / 15	85 / 15	102 / 20	119 / 25	136 / 30
ARMDV-80	80	65	0.6	40 / 10	60 / 15	80 / 20	100 / 25	120 / 30	140 / 40	
ARMDV-100	100	80	1.1	48 / 20	72 / 30	96 / 40	120 / 50	144 / 60		
ARMDV-125	125	100	1.5	56 / 40	84 / 60	112 / 75	140 / 100	168 / 125		
ARMDV-150	150	150	2.5	64 / 60	96 / 100	128 / 125	160 / 150			
ARMTV-150	150	125	3.0	95 / 125	140 / 175	180 / 268				

Unit:mm

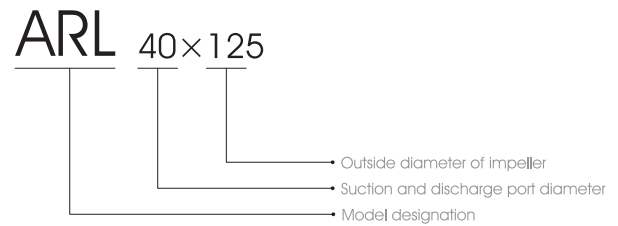
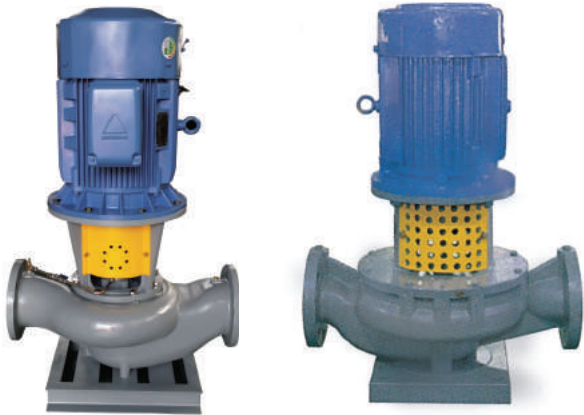
ARMDV Multi Stage Volute Pump

◆ Sectional Drawing



Part No.	Name of Part	Materials
01	Discharge Casing	GC200
02	Bracket	GC200
03	Impeller	GC200
04	Suction Casing	GC200
05	Stuffing Box	GC200
06	Balance Disk	GC200
07	Plate	BC6
08	Guide Casing	GC200
09	Shaft	SM45C
10	Impeller Key	SM55C
11	Impeller Nut	SM55C
12	Bearing Nut	SM45C
13	Ball Bearing	STEEL
14	Ball Bearing	STEEL
15	Bearing Cover	GC200
16	Coupling	GC200
17	Gland Packing	Carbonized fiber , TEFLON
18	Gland	GC200
19	Mechanical Seal	SIC/CARBON

ARL Inline Pump



※ Material :GC 200,STS304

Maximum flow rate range (m ³ /min)	0.1~7	Rotational direction	CW
Maximum lift (m)	4~55	Flange dimension	KS 10kg/cm ²
Operation temperature range (°C)	~90°C	Flange location	SIDE / SIDE
Allowable injection pressure (kg/cm ² G)	10K or 16K		

◆ Features

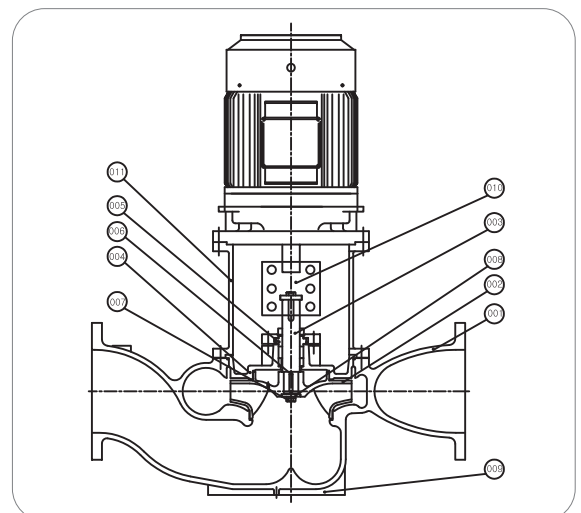
- Can be installed at narrow space and maintenance is simple.
- As this is a pulling up structure, maintenance is easy without disassembling of piping.
- As mechanical seal is installed, there is no water leakage.
- Compatibility of product is excellent.
- Vibration proofing stand is not required.

◆ Applications

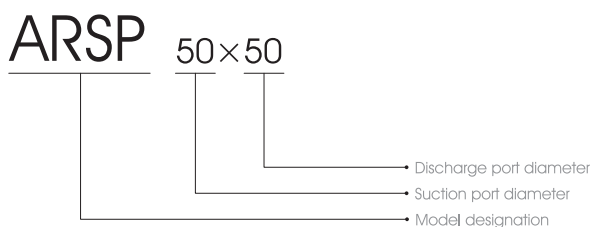
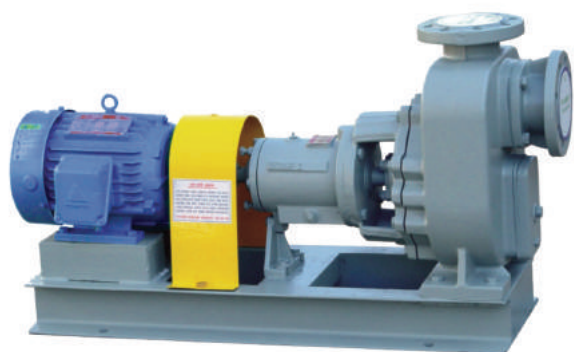
- For water supplying to building • For pressurized water supply device • For cold and hot water circulation
- For agricultural and industrial water circulation and general commercial water processing, and so forth

◆ Sectional Drawing

PART NO.	MOMENCLATURE	MAT'L
001	CASING	GC200
002	IMPELLER	BC6
003	SHAFT	STS304
004	STUFFING BOX	GC200
005	MECHANICAL SEAL	SIC/CARBON
006	IMPELLER KEY	STS304
007	IMPELLER NUT	STS304
008	IMPELLER WASHER	STS304
009	BASE PLATE	GC200
010	COUPLING	AL
011	BRACKET	SS400



ARSP Self Priming Pump



Maximum flow rate range (m ³ /min)	0.1~2.5	Rotational direction	CW
Maximum lift (m)	13~18	Flange dimension	KS 10kg/cm ²
Operation temperature range (°C)	~90°C	Flange location	END / TOP
Allowable injection pressure (kg/cm ² G)	10K	Number of rotation (RPM)	1750

◆ Features

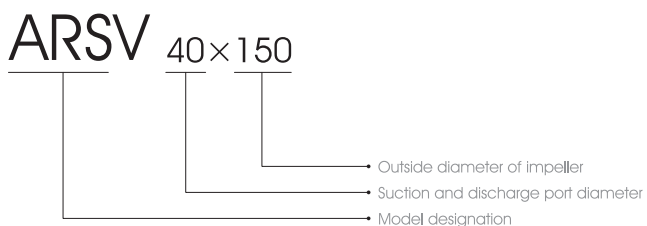
- As check valve is installed at the suction side of pump, water needs not to be flooded at the suction pipe.
- Casing is constructed with unique design and impeller is designed with open or semi-open type with which passing of sludge is facilitated.
- Casing inspection cover is attached so that the sewage in the casing can be removed.

◆ Applications

- For agriculture and industry
- For waste water treatment
- For chemical industry
- For water service and drain
- For civil work

Model	Size		Capacity	Head	Power
	Suc.	Dis.	m ³ /min	m	HP
50 X 50 -19	50	50	0.25	13	3
65 X 65 -19	65	65	0.4	13	5
80 X 80 -22	80	80	0.6	18	7.5
100 X 100 -22	100	100	1.0	18	10
125 X 125 -22	125	125	1.5	18	15

ARSV Direct Single Suction Volute Pump



◆ Features

- As this product is manufactured with small and light weight type, handling is easy.
- As its structure is simple, installation and maintenance are easy.
- As it is manufactured with integrated type pump and motor, the efficiency of pump is high and power consumption is low.

◆ Applications

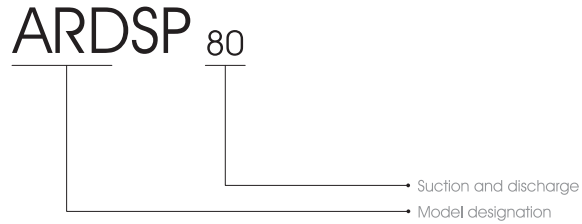
- For the lifting and draining the water from building
- For cooling and heating circulation
- For the cooling tower of building

◆ Standard specification

Model: ARSV

Model	Suction mm	Discharge mm	Capacity m ³ /min	Head m	Power kW(HP)	Voltage V	r.p.m
ARSV 40 - 150L	40	40	0.15	10	0.75(1)	220/380	1750
ARSV 50 - 150L	50	50	0.25	10	1.5(2)	220/380	
ARSV 50 - 180L	50	50	0.25	14	2.2(3)	220/380	
ARSV 50 - 200L	50	50	0.25	20	3.7(5)	220/380	
ARSV 65 - 180L	65	65	0.4	13	2.2(3)	220/380	
ARSV 65 - 200L	65	65	0.4	20	3.7(5)	220/380	
ARSV 80 - 180L	80	80	0.6	12	2.2(3)	220/380	
ARSV 80 - 200L	80	80	0.6	16	3.7(5)	220/380	

ARDSP Direct Self - Priming Pump



◆ Features

- Foot valve is internally installed.
- As this is self-suction type, once it is operated, self-suction is accomplished with the door of pump casing only without foot valve from the next operation.
- In the case single phase, as MP condenser is attached, normal function can be accomplished even at low voltage.
- As motor and pump are directly coupled, idling due to slip is prevented.
- As the motor is specially and exclusively designed for pump, its performance and efficiency are high.
- As it is a mobile type, installation location can be changed for pumping.
- As the structure is simple and light weighted, disassembling and assembling are easy, and required installation area is small.

◆ Applications

- For pumping and draining of building
- For draining of civil and architectural work
- For agriculture
- For cooling and heating circulation

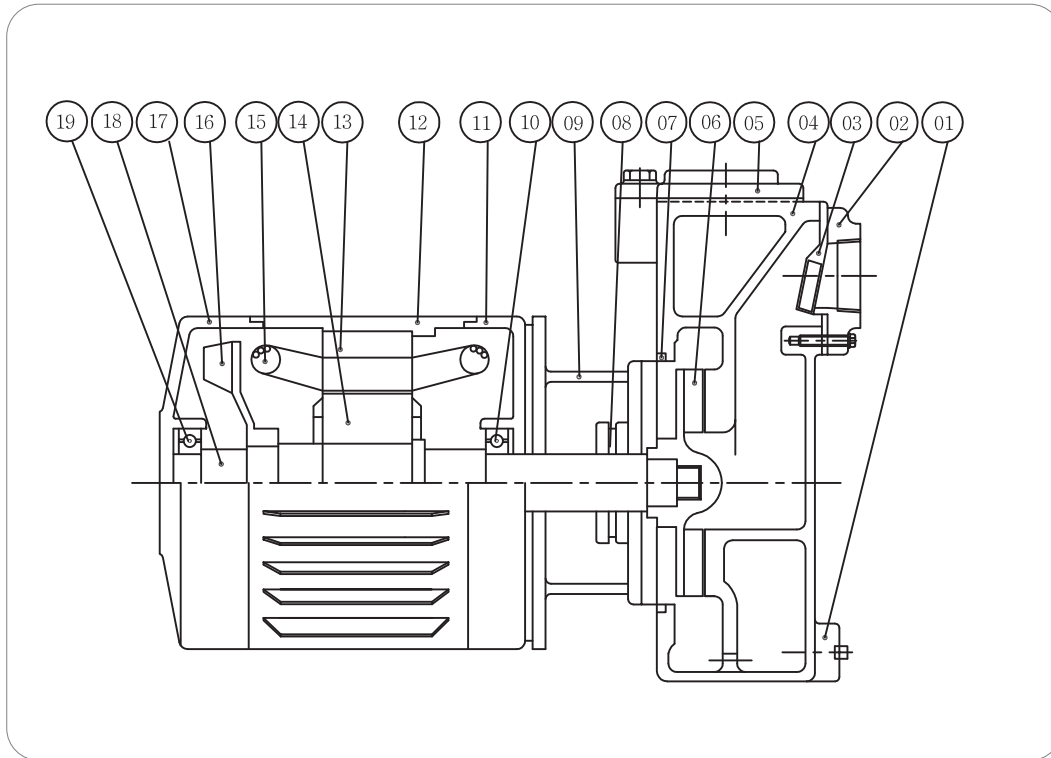
◆ Standard specification

Model : ARDSP

Model	Suction mm	Discharge mm	Capacity m ³ /min	Head m	Power kW(HP)	Voltage V	r.p.m	Remarks
ARDSP - 80	80	80	0.4-0.6	8.5-6	2.2(3)	220/380	1750	
ARDSP - 80	80	80	0.4-0.6	10-8	3.7(5)	220/380		
ARDSP - 80	80	80	0.4-0.6	8.5-6	2.2(3)	220		

ARDSP Direct Self-Priming Pump

◆ Sectional Drawing



PART NO.	MOMENCLATURE	MAT'L	Q'TY
01	HOSE CAT	GC200	2
02	SUCTION FLANGE	GC200	1
03	SUCTION VALVE	GC200	1
04	CASING	GC200	1
05	DISCHARGE FLANGE	GC200	1
06	IMPELLER	GC200	1
07	O-RING	RUBBER	1
08	M/C SEAL	F-10	1
09	HOLDER	GC200	1
10	BALL BEARING		1
11	MOTOR COVER		1
12	FRAME		
13	STATOR CORE	RM10	1
14	ROTOR CORE	RM10	1
15	COIL		1
16	FAN	AL	1
17	MOTOR COVER	GC200	1
18	SHAFT	STS304	1
19	BALL BEARING		1

ARMP Direct Self - Priming



◆ Features

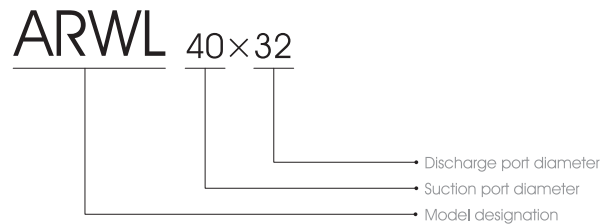
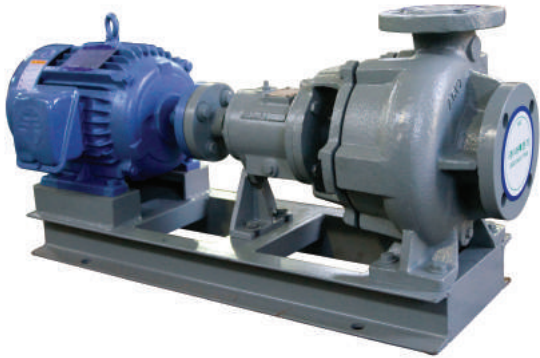
- Foot valve is internally installed.
- As MP condenser is attached, normal function can be accomplished even at low voltage.
- As this is self-suction type, once it is operated, self-suction is accomplished with the water in the pump casing only without supplementation of outside water from the next operation.
- As motor and pump are directly coupled, idling due to slip is prevented.
- As the motor is specially and exclusively designed for pump, its performance and efficiency are high.
- As it is a mobile type, installation location can be changed for pumping.
- As the structure is simple and light weighted, disassembling and assembling are easy, and required installation area is small.

◆ Applications

- For pumping and draining of building
- For draining of civil and architectural work
- For agriculture and irrigation, drain, and miscellaneous water
- For cooling and heating circulation

Model : ARMP

Model	Size		Capacity ℓ /h(max)	Head m(max)	Power HP	Voltage V	r.p.m	Remark
	Suc.	Dis.						
ARMP 420S	40	40	10,000	15	1/2	220V	3450	Single phase (Condenser induction motor)
ARMP 420T	40	40	10,000	15	1/2	220V/380V		Three-phase
ARMP 750S	50	50	15,000	18	1	220V		Single phase (Condenser induction motor)
ARMP 750T	50	50	15,000	18	1	220V/380V		Three-phase
ARMP 750S	40	40	10,000	30	1	220V		Single phase (Condenser induction motor)
ARMP 750T	40	40	10,000	30	1	220V/380V		Three-phase
ARMP 1500T	50	50	18,000	40	2	220V/380V		Three-phase
ARMP 1500S	50	50	18,000	40	2	220V		Single phase (Condenser induction motor)
ARMP 2200S	50	50	22,000	40	3	220V		Single phase (Condenser induction motor)
ARMP 2200T	50	50	22,000	40	3	220V/380V		Three-phase
ARMP 3700T	50	50	24,000	40	5	220V/380V		Three-phase



Maximum flow rate range (m ³ /min)	0.1~3.2	Rotational direction	CW
Maximum lift (m)	7.5~19	Flange dimension	KS 10kg/cm ²
Operation temperature range (°C)	~90°C	Flange location	END / TOP
Allowable injection pressure (kg/cm ² G)	10K	Number of rotation (RPM)	1750

◆ Features

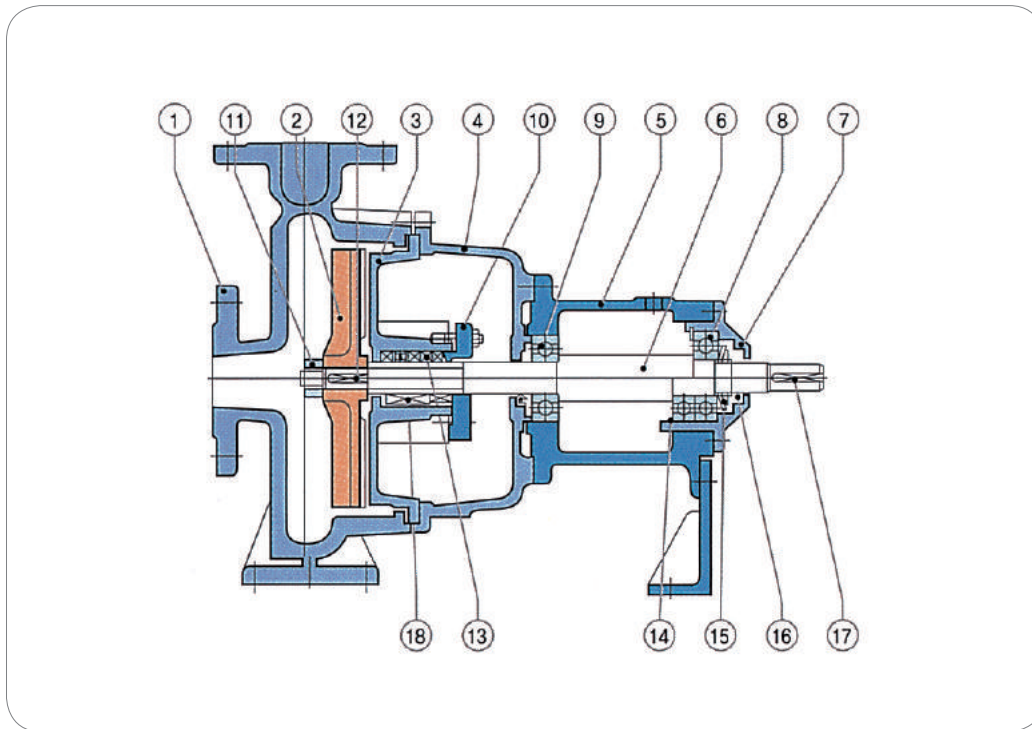
• Principle: In the case of general pump, as shown in the figure, the space between casing and impeller is around $S_2/B_2=0.1-0.5\text{mm}$ which is not so great, however, in the case of vortex pump, impeller is retreated to the rear of casing ($S_2/B_2=2.3$, $2Dd=0.1$), therefore, solid material or general sludge is discharged outside without any stopping nor passing through the impeller in accordance with the principle of whirlpool within the casing only.

◆ Applications

• For transferring solid material (less than 90% of port diameter) • For sewage and waste water treatment • For pulp and paper manufacturing industry • For agriculture and fisheries • For textile and chemical • For transferring night soil • For transferring other sludge

Model	Size		Capacity m ³ /min	Head m	Power HP
	Suc.	Dis.			
50 X 50 -19	50	50	0.25	13	3
65 X 65 -19	65	65	0.4	13	5
80 X 80 -22	80	80	0.6	18	7.5
100 X 100 -22	100	100	1.0	18	10
125 X 125 -22	125	125	1.5	18	15

◆ Sectional Drawing

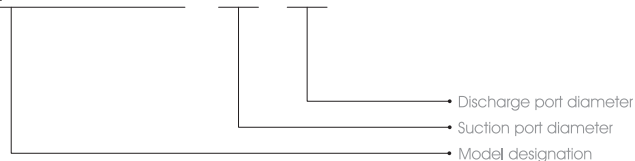


Part No.	Name of Part	Materials
01	Casing	GC200
02	Impeller	GC200
03	Stuffing Box	GC200
04	Adapter	GC200
05	Bearing Houshing	GC200
06	Shaft	SM45C
07	Bearing Cover	GC200
08	Bearing	STEEL
09	Bearing	STEEL
10	Gland	GC200
11	Impeller Nut	SM45C
12	Impeller Key	SM55C
13	Packing	Carbonized fiber , TEFLON
14	Snap Ring	SM25C
15	Bearing Nut	SM45C
16	Oil-Seal	RUBBER
17	Coupling Key	SM45C

ARPP / ARNS Vertical Drain Pump



ARPP / ARNS 32×25



※ Material : GC200,SSC13,SSC14

Standard Material

Maximum flow rate range (m ³ /min)	50~350	Rotational direction	Moter V : CW
Maximum lift (m)	8~13	Flange dimension	KS 10kg/cm ²
Operation temperature range (°C)	~90°C	Flange location	END / SIDE
Allowable injection pressure (kg/cm ² G)	10K	Number of rotation (RPM)	1750 / 3450

◆ Features

- It can withstand various chemicals (acid, alkali) in order to transfer the liquids which cannot be pumped by general cast iron pump.

◆ Applications

- For the spray pump for etching

1,750 rpm

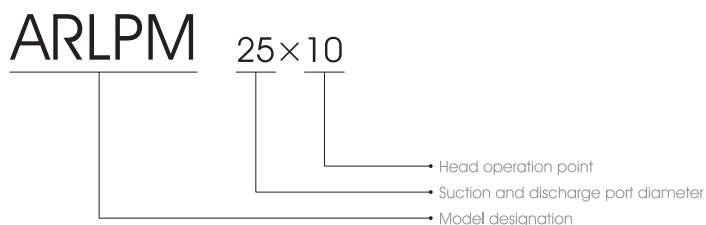
Model	Size		Capacity Liter/min	Head m	Power HP
	Suc.	Dis.			
ARNS 40 - 16V	40	32	130	10	2
ARNS 50 - 11V	50	40	250	13	3
ARNS 65 - 11V	65	50	350	13	5

1. Flow rate and lift are based on fresh water.
2. Motor power is based on the specific gravity of liquid 1.25.
3. As this is manufactured without mechanical seal, the burden of maintenance cost is lessened.
4. In addition to the above specification, other items can be manufactured in accordance with order.

3,450 rpm

Model	Size		Capacity Liter/min	Head m	Power HP
	Suc.	Dis.			
ARPP 25 - 7V	25	25	50	8	1
ARPP 40 - 10V	40	40	130	10	2
ARPP 50 - 11V	50	50	250	13	3
ARPP 65 - 11V	65	65	350	13	5

ARLPM Direct Volute Pump



※ Material :SSC13,STS304,GC300

Maximum flow rate range (m ³ /min)	~0.08	Rotational direction	CW
Maximum lift (m)	7~25	Flange dimension	KS 10kg/cm ²
Operation temperature range (°C)	~90°C	Flange location	END / TOP
Allowable injection pressure (kg/cm ² G)	10K	Number of rotation (RPM)	3500

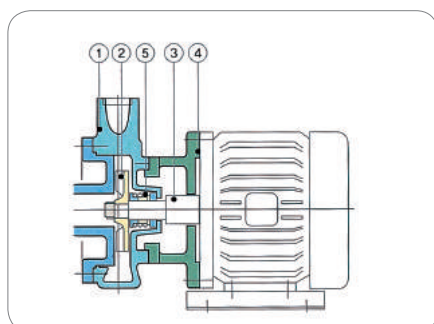
◆ Features

- As this has semi-open type impeller, there is no stopping.
- As standardized parts are used, maintenance is facilitated.
- As it is direct-coupled type, installation location can be changed, and required installation area is small.

◆ Applications

- For transferring various chemicals (sodium hydroxide, M/C, hydrochloric acid, and so forth)
- For various washing devices

◆ Sectional Drawing



Part No.	Name of Part	Materials
01	Casing	SSC 13
02	Impeller	SSC 13
03	Shaft	STS304
04	Bracket	GC200
05	Mechanical Seal	SIC/SIC

ARNW / ARW Westco Pump



ARNW / ARW 40×32×160

- Outside diameter of impeller
- Discharge port diameter
- Suction port diameter
- Model designation



Maximum flow rate range (m ³ /min)	0.04~0.18
Maximum lift (m)	25~80
Operation temperature range (°C)	~120°C
Allowable injection pressure (kg/cm ² G)	10K
Rotational direction	CW
Flange dimension	KS 10kg/cm ²
Flange location	SIDE / TOP

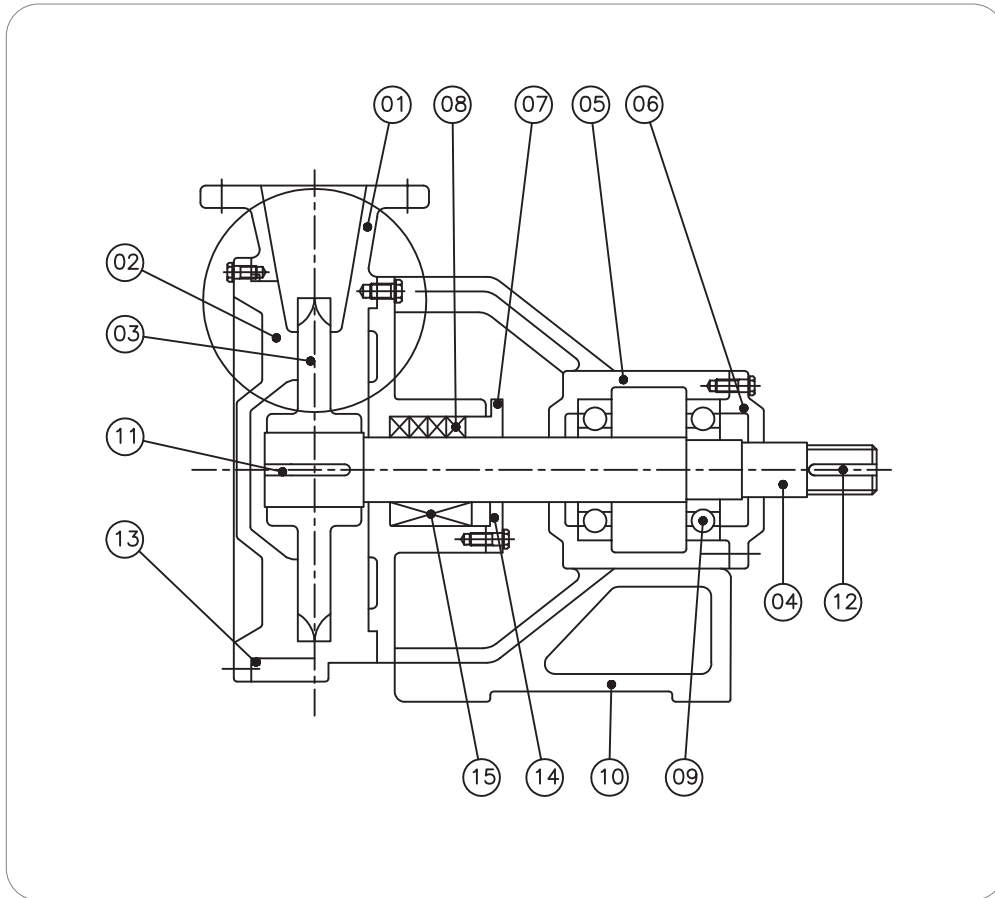
◆ Features

- This product is especially appropriate for the water supplying to boiler.
- As this is small size, installation and maintenance are easy and operation range is wide enough compared to other pumps.
- As water supplying can be conducted up to 90°C of water temperature (within 1m of suction lift), utilization of jet pump is not required.
- It produces high pressure with single stage and the price is inexpensive.

◆ Applications

- For water supplying to boiler • For transferring oils • For hydrant • For various industries and general water supplying

Model	Size		Capacity	Head	Power
	Suc.	Dis.	m ³ / min	m	HP
ARNW 40	40	40	0.07	60	5
			0.06	80	
			0.05	90	
ARNW 50	50	50	0.1	80	10
			0.09	100	
			0.08	120	15
			0.06	140	
			0.04	160	



PART NO.	MOMENCLATURE	MAT'L	Q'TY
01	Casing	GC200	1
02	Casing Cover	GC200	1
03	Impeller	BC6	1
04	Shaft	STS304	1
05	Bearing Housing	GC200	1
06	Bearing Cover	GC200	1
07	Gland Packing	GC200	1
08	Packing	COTTON	
09	Ball Bearing		2
10	Support Foot		1
11	Impeller Key	SM45C	1
12	Coupling Key	SM45C	1
13	O-Ring	RUBBER	1
14	Seal Cover	GC200	1
15	Mechanical Seal		1

ARVS Vertical Sump Pump



ARVS 50

Discharge port diameter
Model designation

Maximum flow rate range (m ³ /min)	0.04~0.18	Rotational direction	Motor V : CW
Maximum lift (m)	13~23	Maximum suction lift (m)	KS 10kg/cm ²
Operation temperature range (°C)	~90°C	Flange dimension	BOTTOM / TOP
Allowable injection pressure (kg/cm ² G)	10K	Flange location	1750

◆ Features

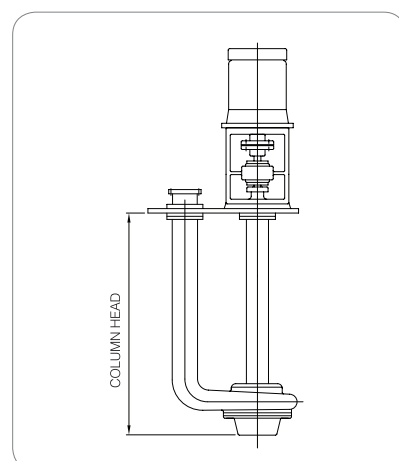
- With specially designed impeller, pumping can be conducted without stopping by solid materials.
- Since this is manufactured as vertical type, required installation area is small and operation is facilitated.
- When the depth of sump is excessively deep, vibration of pump is minimized by connecting intermediate coupling and inserting the intermediate bearing metal in accordance with one shaft concept.

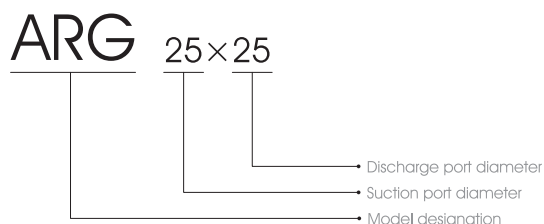
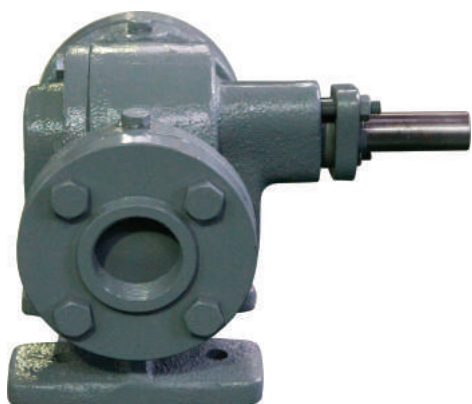
◆ Applications

- For the septic tank of building • For draining sewage and night soil • For condensed water • For various other chemical industries

Model	Size		Capacity m ³ /min	Head m	Power HP
	Suc.	Dis.			
50 x 50 - 19	50	50	0.25	13	2
- 22				18	3
65 x 65 - 19	65	65	0.4	13	5
-22				18	
80 x 80 - 22	80	100	0.6	18	7.5
-25				23	
100 x 100 -22	100	125	1.0	18	10
-25				23	
125 x 125 - 22	125	50	1.5	18	15
-25				23	
150 x 150 - 22	150	50	2.5	18	20
-25				23	

◆ Outline Drawing





Maximum flow rate range (m ³ /min)	15~900
Maximum lift (m)	30~60
Operation temperature range (°C)	~120°C
Allowable injection pressure (kg/cm ² G)	10K
Rotational direction	CW
Maximum suction lift (m)	KS 10kg/cm ²
Flange dimension	SIDE / SIDE

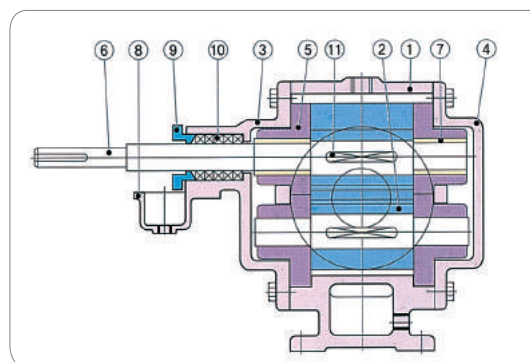
◆ Features

- As gears are polished, the noise is almost eliminated compared to the previous gear pumps.
- Discharge pressure can be raised regardless of the number of rotation.
- As structure is simple, repair and maintenance are facilitated, and axial thrust force is completely prevented by adopting double helical gear.

◆ Applications

- For transferring oil • For transferring lubricant • For food industry
- For chemical industry • For transferring paint

◆ Sectional Drawing



Part No.	Name of Part	Materials
01	Casing	GC200
02	Helical Gear	SM45C
03	Side Cover	GC200
04	Side Cover	GC200
05	Side Plate	GC200
06	Driven Shaft	SM45C
07	Bearing Metal	BC6 or CARBON
08	Oil Pan Optional specification	GC200
09	Packing	Carbonized fiber, TEFLON
10	Gland	GC200
11	Gear Key	SM55C

Model	Size		Capacity Liter/min	Head m	Power HP	r.p.m
	Suc.	Dis.				
ARG 25	25	25	15	40	1/2	400
			30	50	1	750
			45	50	2	1150
ARG 40	40	40	50	50	2	600
			70	40	2	850
			100	50	3	1150
ARG 50	50	50	120	40	3	750
			150	60	5	900
			200	40	5	1200
ARG 65	65	65	220	30	5	900
			250	60	7.5	1050
			270	50	7.5	1200
ARG 80	80	80	350	40	7.5	630
			400	30	7.5	650
			450	35	10.5	800
			550	40	15.5	980
ARG 100	100	100	600	35	15	650
			700	30	20	750
			800	40	20	850
			900	40	20	950

AREP Engine Pump

◆ Use

- For hydrant, sprinkler, seawater, and various purposes where electric power is not available

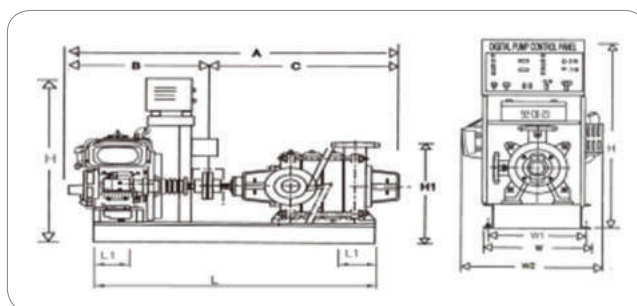
◆ Features

- External appearance is magnificent.
- As cover is attached to engine, the engine is protected and external impact is alleviated.
- As batteries are attached to the top and side section, their exchange is facilitated.
- This product can stably be transported with ease.

Outline drawing of cultivator engine



◆ Outline Drawing



Unit : mm

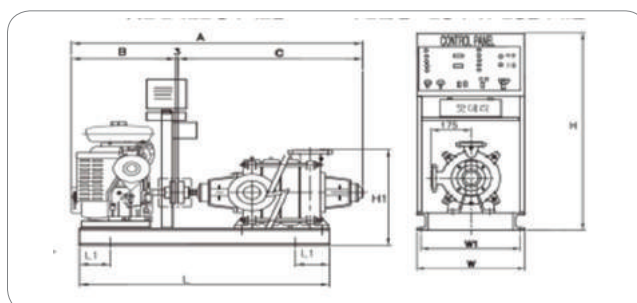
Model	Port diameter Suction discharge	Number of stage	Power HP	SEP Outline dimensions										Fuel	capacity pump	weight engine	weight other weight
				A	B	C	L	L1	H	H1	W	W1	W2				
AREP 50	50x50	2	5(10)	1195	560	635	1000	150	1120	520	430	395	790	11	57	125	64
		3	5(10)	1255	560	695	1000	150	1120	520	430	395	790	11	68	125	65
		4	7.5(10)	1315	560	755	1100	150	1120	520	430	395	790	11	79	125	67
		5	10(10)	1406	560	846	1100	150	1120	520	430	395	790	11	92	125	67
AREP 65	65x55	2	7.5(10)	1214	560	654	950	150	1120	570	430	395	790	11	76	125	64
		3	10(10)	1282	560	722	1000	150	1120	570	430	395	790	11	89	125	65
AREP 80	80x65	2	10(10)	1260	560	700	1000	150	1120	585	430	395	790	11	111	125	65

() is based on the power of cultivator engine. When other engine or pump is selected, the dimensions can be changed.

Outline drawing of gasoline engine



◆ Outline Drawing



Unit : mm

Model	Port diameter Suction discharge	Number of stage	Power HP	SEP Outline dimensions										Fuel	capacity pump	weight engine	weight other weight
				A	B	C	L	L1	H	H1	W	W1					
AREP 50	50x50	2	5(7)	1115	480	635	730	100	1120	465	430	380	8.2	57	34	61	
		3	5(7)	1175	480	695	810	100	1120	465	430	380	8.2	68	34	62	
		4	7.5(8)	1235	480	755	870	100	1120	465	430	380	8.2	79	33	63	

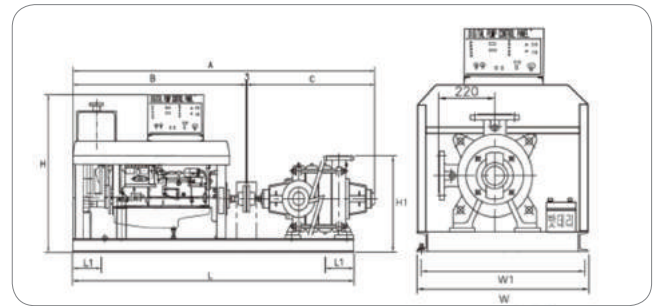
() is based on the power of Hyundai engine. When other engine or pump is selected, the dimensions can be changed.

AREP Engine Pump

Basic type



◆ Outline Drawing



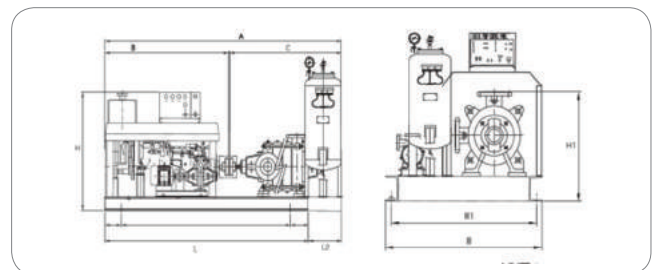
Model	Port diameter Suction discharge	Number of stage	Power HP	SEP Outline dimensions										Size of fuel container (mm)	Fuel	capacity pump	weight engine	weight other weight
				A	B	C	L	L1	L2	H	H1	W	W1					
AREP 50	50x50	6	15(28)	1836	930	906	1600	250	1100	1350	550	720	670	280x300x420	30	103	210	169
		4	15(28)	1720	930	790	1150	250	1050	1350	565	720	670	280x300x420	30	104	210	168
AREP 65	65x50	5	20(28)	1818	930	890	1650	250	1150	1350	565	720	670	280x300x420	30	117	210	170
		6	20(28)	1886	930	956	1700	250	1200	1350	565	720	670	280x300x420	30	130	210	171
		3	15(28)	1710	930	780	1550	250	1050	1350	575	720	670	280x300x420	30	146	210	168
AREP 80	80x65	4	20(28)	1874	930	944	1650	250	1150	1350	575	720	670	280x300x420	30	184	210	170
		5	25(28)	1954	930	1024	1700	200	650	1350	575	720	670	280x300x420	30	220	210	171
		6	30(42)	2034	930	1104	1800	200	700	1350	575	720	670	280x300x420	30	256	210	172
AREP 100	100x80	2	20(28)	1731	930	801	1550	250	1050	1350	590	720	670	280x300x420	30	167	210	170
		3	30(42)	1863	930	933	1650	250	1150	1350	590	720	670	280x300x420	30	195	210	170
		4	40(42)	1953	930	1023	1750	200	675	1350	615	750	685	280x300x420	30	223	210	190
AREP 125	125x100	5	50(60)	2043	970	1113	1850	200	725	1450	615	750	685	280x300x420	30	251	218	192
		2	40(42)	1901	930	971	1700	200	625	1350	560	720	670	280x300x420	30	225	210	170
		3	60(82)	2110	1140	1070	1950	220	775	1450	700	750	685	300x350x440	40	317	334	204
AREP 150	150x150	4	75(82)	2309	1140	1169	2050	200	825	1450	700	750	685	300x350x440	40	409	334	205
		2	75(82)	2182	1140	1042	1950	200	775	1240	725	750	685	300x350x440	40	283	334	203
		3	125(130)	2678	1520	1158	2450	200	1025	1240	790	850	775	350x400x450	60	377	580	255
		4	150(180)	2794	1520	1274	2550	200	1075	1240	790	850	775	350x400x450	60	470	590	260

() is based on the power of Hyundai engine. When other engine or pump is selected, the dimensions can be changed.

Integrated type



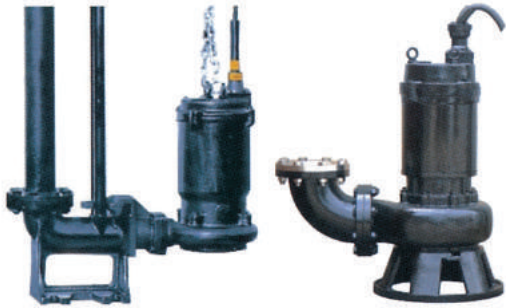
◆ Outline Drawing



Model	Port diameter Suction discharge	Number of stage	Power HP	SEP Outline dimensions										Size of fuel container (mm)	Fuel	capacity pump	weight engine	weight other weight	
				A	B	C	L	L1	L2	L3	H	H1	W						W1
AREP 50	50x50	5	10(28)	1776	930	846	1600	250	1100	350	1350	550	1100	1050	280x300x420	30	92	210	172
		6	15(28)	1836	930	906	1600	250	1100	350	1350	550	1100	1050	280x300x420	30	103	210	172
AREP 65	65x50	3	10(28)	1652	930	722	1450	250	950	350	1350	565	1100	1050	280x300x420	30	89	210	170
		4	20(28)	1720	930	790	1550	250	1050	350	1350	565	1100	1050	280x300x420	30	104	210	171
		5	20(28)	1818	930	890	1650	250	1150	350	1350	565	1100	1050	280x300x420	30	117	210	173
AREP 80	80x65	6	10(28)	1886	930	956	1700	250	1200	350	1350	565	1100	1050	280x300x420	30	130	210	174
		2	10(28)	1630	930	700	1450	250	950	350	1350	575	1100	1050	280x300x420	30	111	210	170
		3	15(28)	1710	930	780	1550	250	1050	350	1350	575	1100	1050	280x300x420	30	146	210	171
AREP 100	100x80	4	20(28)	1874	930	944	1650	250	1150	350	1350	575	1100	1050	280x300x420	30	184	210	173
		5	25(28)	1954	930	1024	1700	200	650	350	1350	575	1100	1050	280x300x420	30	220	210	174
		6	60(42)	2034	930	1104	1800	200	700	350	1350	575	1100	1050	280x300x420	30	256	210	175
AREP 125	125x100	2	20(28)	1731	930	801	1550	250	1050	350	1350	590	1100	1050	280x300x420	30	167	210	173
		3	30(42)	1863	930	933	1650	250	1150	350	1350	590	1100	1050	280x300x420	30	195	210	173
		4	40(42)	1953	930	1023	1750	200	675	350	1350	615	1100	1050	280x300x420	30	223	210	193
AREP 150	150x150	5	50(60)	2043	970	1113	1850	200	725	350	1450	615	1100	1050	280x300x420	30	251	218	195
		2	40(42)	1901	930	971	1700	200	650	350	1350	560	1100	1050	280x300x420	30	225	210	173
		3	60(82)	2110	1140	1070	1950	200	778	350	1450	700	1100	1050	300x350x440	40	317	334	209
AREP 150	150x150	4	75(82)	2309	1140	1169	2050	200	825	350	1450	700	1100	1050	300x350x440	40	409	334	210
		2	75(82)	2182	1140	1042	1950	200	775	350	1240	725	1100	1050	300x350x440	40	283	334	208
		3	125(130)	2678	1520	1158	2450	200	1025	350	1240	790			350x400x450	60	377	580	260
		4	150(180)	2794	1520	1274	2550	200	1075	350	1240	790			350x400x450	60	471	590	265

() is based on the power of Hyundai engine. When other engine or pump is selected, the dimensions can be changed.

ARCE Submersible Cutter Pump



◆ Features

- Provided with strong “torque” of motor as a special specification
- Utilization of non-clogging impeller. Minimization of stopping due to foreign material

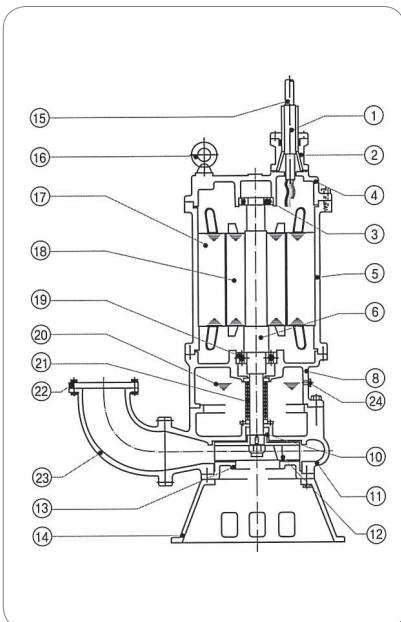
◆ Applications

- For combined treatment plant, and dirty water and sewage treatment plant
- For incinerating place, water purification plant, and sewage treatment plant
- For the sewage of barn
- For miscellaneous drains of factory, hospital, building, and so forth
- For transferring other various waters with solid materials and sludge

◆ Standard specification

Model	Size(mm)	Q(m ³ /min)	Head(m)	Out Put(kW)	RPM	Weight(kg)	
8 ARCE-A	50	0.21	8.0	0.75	3500	45	
8 ARCE-B							49
15 ARCE	80	0.50		11.0	5	1750	70
22 ARCE			110				
37 ARCE	100	0.65	13.0	3.7	1750	127	
55 ARCE							180
75 ARCE							215
110 ARCE							270
150 ARCE							300

◆ Sectional Drawing



No.	Name of Part	Materials
01	Cab Tyre Cable	
02	Stuffing Box	
03	Upper Bearing	STB2
04	Motor Bracket	GC200
05	Motor Frame	GC200
06	Motor Shaft	STS410
08	Bearing Housing	GC200
10	Oil Seal	N.B.R
11	Pump Casing	GC200
12	Impeller	GCD500
13	Suction Cover	GCD500
14	Stand	GCD200
15	Protected	N.B.R
16	Eye Bolt	SS400
17	Stator	S-60
18	Rotor	S-60
19	Lower Bearing	STB2
20	Oil	TURBINE OIL
21	Mechanical Seal	SIC/SIC
22	Flange	SS400
23	Elbow	GC200
24	Oil Bolt	SS400

ARBS Waster Water & Effluent Pump

◆ Features

- This product is for high lift for which automatic attaching/detaching device is applied.
- As non-pressure system for which water pressure is not applied is adopted, durability of this product is excellent.

◆ Applications

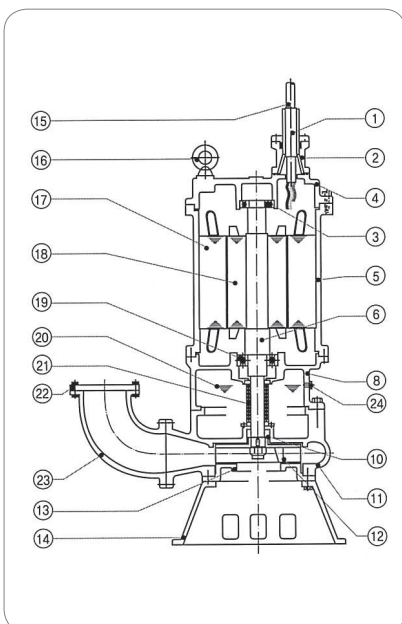
- For draining the sewage of industrial plant, building, and factory
- For draining the sewage of subway station, and pit
- For draining the sewage of combined treatment plant, and underground shopping center
- For draining the sewage of other high lift places
- For draining the discharge of septic tank and urinal



◆ Standard specification

Model	Size(mm)	Q(m ³ /min)	Head(m)	Out Put(kW)	RPM	Weight(kg)
8 ARBS	50	0.16	12	0.75	3500	45
15 ARBS		0.25	15	1.5		60
22 ARBS	80	0.30	20	2.2		65
37 ARBS				3.7		85
55 ARBS	100	0.80	25	5.5		130
75 ARBS				7.5		140
110 ARBS				11.0		180
150 ARBS		1.20	40	15.0		220

◆ Sectional Drawing



No.	Name of Part	Materials
01	Cab Tyre Cable	
02	Stuffing Box	
03	Upper Bearing	STB2
04	Motor Bracket	GC200
05	Motor Frame	GC200
06	Motor Shaft	STS410
08	Bearing Housing	GC200
10	Oil Seal	N.B.R
11	Pump Casing	GC200
12	Impeller	GCD500
13	Suction Cover	GCD500

No.	Name of Part	Materials
14	Stand	GCD500
15	Protected	N.B.R
16	Eye Bolt	SS400
17	Stator	S-60
18	Rotor	S-60
19	Lower Bearing	STB2
20	Oil	TURBINE OIL
21	Mechanical Seal	SIC/SIC
22	Flange	SS400
23	Elbow	SS400
24	Oil Bolt	SS400



◆ Features

- A crushing type impeller manufactured with special chrome alloy steel is installed, string, cloth, vinyl, and so forth are crushed for transferring.
- Various shapes of crushing blades are applied in accordance with the sewage to be crushed.
- Double crushing function can be added separately.

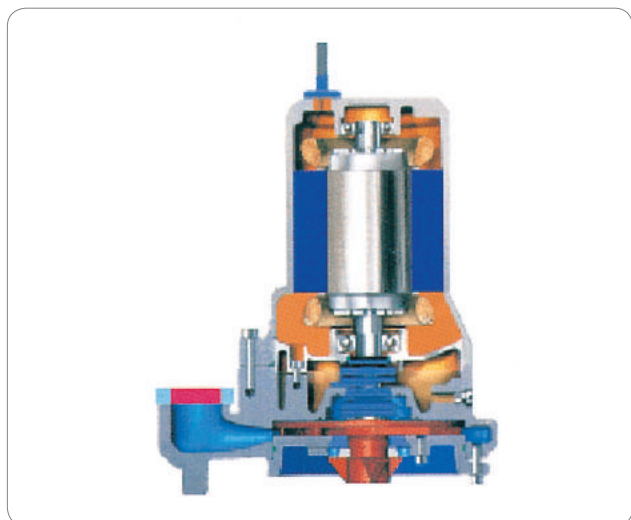
◆ Applications

- Applications
- For transferring the sewage and waste water from housing complex and others to sewage treatment plant
- For transferring sewage and waste water, septic tank facilities, excretions of livestock, and so forth

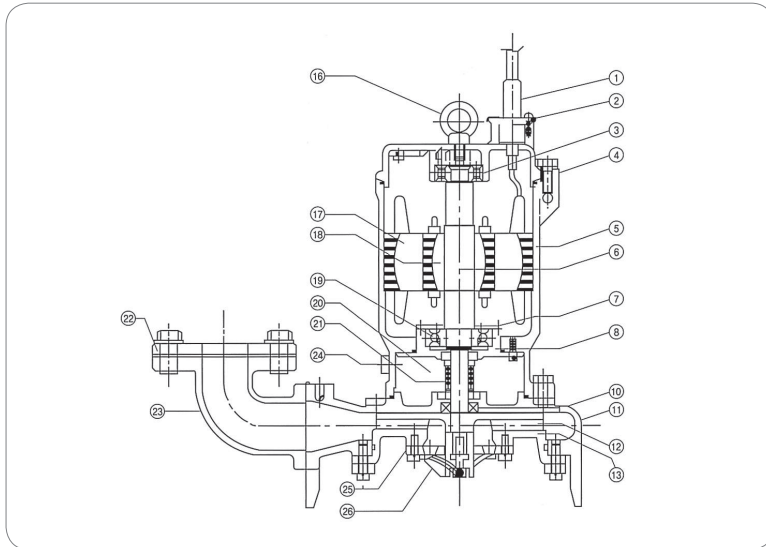
◆ Standard specification

Model	Size(mm)	Q(m ³ /min)	Head(m)	Power(kW)	RPM	Weight(kg)
50 ARGR 0.75 4T	50	0.1	10	0.75	1800	58
50 ARGR 1.5 4T		0.1	14	1.5	1800	60
50 ARGR 2.2 4T		0.15	19	2.2	3600	70
50 ARGR 3.7 4T		0.2	22	3.7	3600	85
80 ARGR 5.5 2T	80	0.25	27	5.5	3600	130
80 ARGR 7.5 2T		0.3	32	7.5	3600	160
80 ARGR 11 2T		0.35	40	11.0	3600	180
80 ARGR 15 2T		0.4	44	15.0	3600	220
80 ARGR 2.2 4T	100	0.5	8	2.2	1800	110
100 ARGR 3.7 4T		0.65	8	3.7	1800	127
100 ARGR 5.5 4T		0.7	11	5.5	1800	180
100 ARGR 7.5 4T		0.8	13	7.5	1800	210

◆ Sectional Drawing

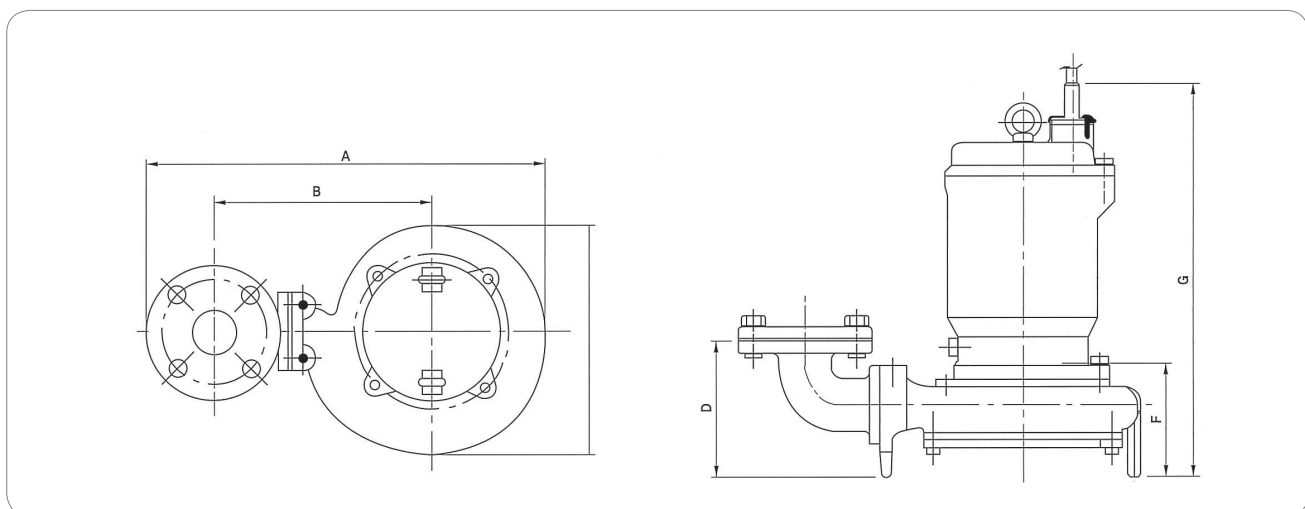


◆ Sectional Drawing



No.	Name of Part	Materials
01	Cab Type Cable	
02	Gland	STS304
03	Upper Bearing	STB2
04	Motor Bracket	GC200
05	Motor Frame	GC200
06	Motor Shaft	STS410
07	Bearing Cover	SS400
08	Bearing Housing	GC200
10	Oil Seal	N.B.R
11	Pump Casing	GC200
12	Impeller	SSC13
13	Suction Cover	GC200
16	Eye Bolt	STS304
17	Stator	S-60
18	Rotor	S-60
19	Lower Bearing	STB2
20	Turbine Oil	#T-46
21	Mechanical Seal	SIC/SIC
22	Flange	SS400
23	Elbow	GC200
24	Oil Bolt	SS400
25	Plate	H-CR24
26	Cutter Fan	H-CR24

◆ Outline Drawing



ARVT Submersible Vortex Pump



◆ Features

- As a sewage pump with special open type impeller, foreign materials such as solid material or fibroid material and so forth are not clogged or wound.
- By combining the automatic attaching/detaching function, maintenance work can easily be conducted.

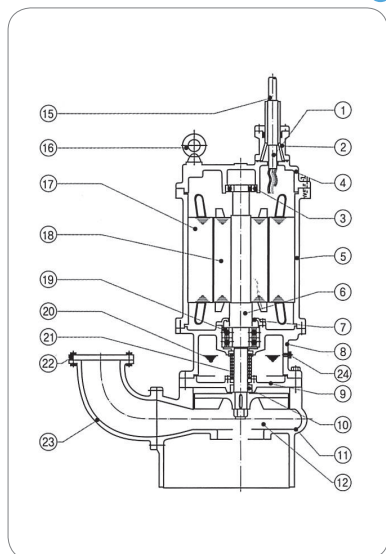
◆ Applications

- For transferring septic tank sewage and sludge
- For transferring night soil, pulp, and solid material
- For transferring miscellaneous drains of hospital, hotel, restaurant, building, and so forth
- For transferring miscellaneous drains of slaughterhouse, and chicken slaughterhouse
- For transferring the collective sewage

◆ Standard specification

Model	Size(mm)	Q(m ³ /min)	Head(m)	Out Put(kW)	RPM	Weight(kg)
8 ARVT	50	0.15	8	0.75	3500	45
15 ARVT		0.21	10	1.5		60
22 ARVT		0.30	15	2.2		70
37 ARVT		0.40	18	3.7		85
55 ARVT	100	0.56	20	5.5		95
75 ARVT		0.60	22	7.5		160
110 ARVT		0.65	25	11.0		180
150 ARVT		0.80	30	15.0		220

◆ Sectional Drawing



No.	Name of Part	Materials
01	Cab Tyre Cable	
02	Stuffing Box	GC200
03	Upper Bearing	STB2
04	Motor Bracket	GC200
05	Motor Frame	GC200
06	Motor Shaft	STS410
07	Bearing Cover	GC200
08	Bearing Housing	GC200
09	Water Chamber	N.B.R
10	Oil Seal	N.B.R
11	Pump Casing	GC200

No.	Name of Part	Materials
12	Impeller	GCD500
15	Protected	N.B.R
16	Eye Bolt	SS400
17	Stator	S-60
18	Rotor	S-60
19	Lower Bearing	STB2
20	Oil	TURBINE OIL
21	Mechanical Seal	SIC/SIC
22	Flange	SS400
23	Elbow	GC200
24	Oil Bolt	SS400

ARTV Drain Pump For Civil Engineering Site Pump



◆ Features

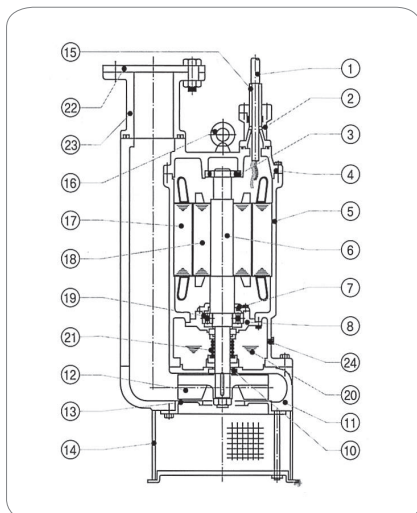
- The sealing capability which is more than 3 times of the existing product is displayed by utilizing the best quality mechanical seal.
- Those products with the capacity of 5.5kW or above are manufactured with non-pressure design.

◆ Applications

- For draining the water from civil and architectural work
- For draining the water from subway construction work
- For emergency draining as a mobile device
- For supplying and draining the water from industrial site and underground water of building
- For draining the water from water service and drain construction work
- For draining the water from tunnel construction work
- For draining
- For supplying the water to the decorative fountain and cascade
- For manufacturing the wheel washing equipment

Model	Size(mm)	Q(m ³ /min)	Head(m)	Power(kW)	Weight(kg)
15 ARTV	50	0.25	16.0	1.5	60
22 ARTV		0.30	20.0	2.2	65
15L-ARTV	80	0.50	8.00	1.5	60
22L-ARTV		0.60	10.0	2.2	65
37ARTV		0.50	20.0	3.7	79
55ARTV		0.60	25.0	5.5	89
37L-ARTV	100	1.00	10.0	3.7	79
55L-ARTV		1.00	15.0	5.5	89
75ARTV		0.80	30.0	7.5	156
110ARTV		1.00	35.0	11.0	174
150ARTV		1.20	40.0	15.0	200
75L-ARTV		1.60	15.0	7.5	156
110L-ARTV	150	1.70	20.0	11.0	174
150L-ARTV		2.50	20.0	15.0	200

◆ Sectional Drawing



No.	Name of Part	Materials
01	Cab Tyre Cable	
02	Stuffing Box	GC200
03	Upper Bearing	STB2
04	Motor Bracket	GC200
05	Motor Frame	GC200
06	Motor Shaft	STS410
07	Bearing Cover	GC200
08	Bearing Housing	GC200
09	Oil Seal	N.B.R
10	Pump Casing	GC200
11	Impeller	GCD500
12	Pump Casing	GC200

No.	Name of Part	Materials
13	Suction Cover	GCD500
14	Strainer	SS400
15	Protected	N.B.R
16	Eye Bolt	SS400
17	Stator	S-60
18	Rotor	S-60
19	Lower Bearing	STB2
20	Oil	TURBINE OIL
21	Mechanical Seal	SIC/SIC
22	Flange	SS400
23	Flange Coupling	GC200
24	Oil Bolt	SS400



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