



## VACUUM ASSISTANT DEWATERING PUMPS



## Engine Driven Dewatering Pump With Vacuum Assisted Priming System

- Pump Fit With Double Cartridge Seals
- Shaft - PH17-4.
- Vacuum Assistant Priming System.
- Sae Coupling With Bearing Isolator

Size : 4" - 24"  
Semi Open Impeller

Our Vacuum Assisted Dewatering Pumps 4", 6" & 8" Are Coupled With Air Cooled Kirloskar Engine And 12" With Volvo Eicher Water Cooled Engine.

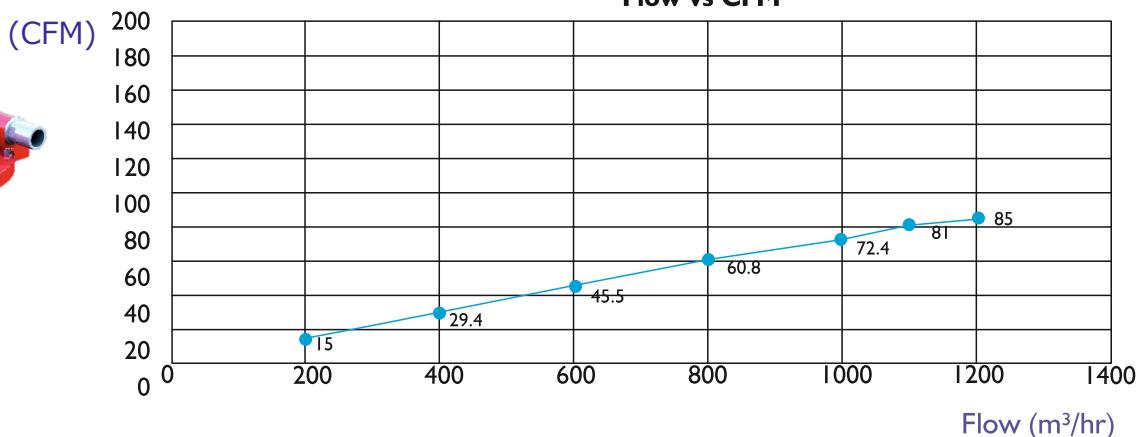


Skid Mounted +  
Trolley Mounted

### Materials of Construction

STANDARDS	MATERIAL	STANDARDS	MATERIAL
Priming	60 - 120 CFM	Front Wear Plate	SG 500/7
Tee Piece	SG 500/7	Rear Back Plate	SG 500/7
Air & Water Separator	SG 500/7	Pump Shaft	SS - PS17-4
Pump Casing (Volute)	SG Iron 500/7	Mechanical Seal	SIC - Viton
Back Plate	SG 500/7	Bearing Housing	SG 500/7
Bell housing to engine	SG 500/7	Couplings	SAE 1,2,3
Bell housing to Volute	SG 500/7	Non return valve	Cast Iron
Impeller	SS 316		

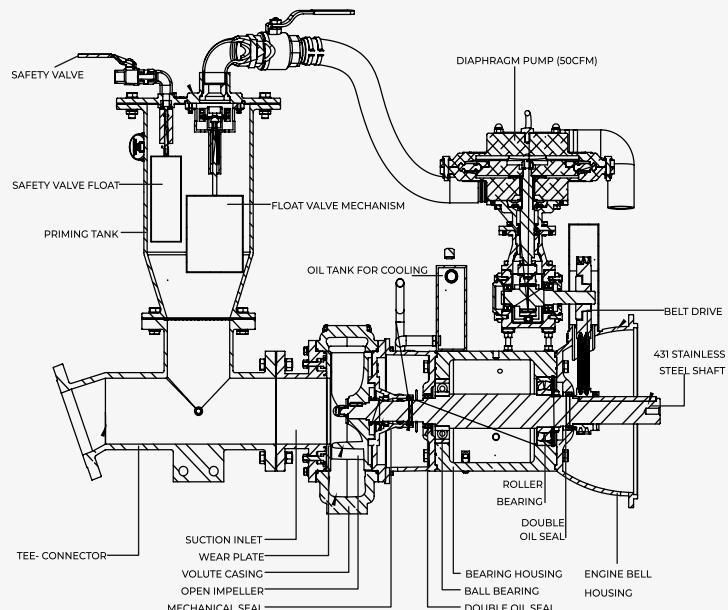
## Diaphragm Pump for Vacuum System



1. Check that the pump-set is level
2. Check oil in:
  - Engine
  - Pump bearing housing
  - Priming pump
  - Mechanical seal cooling reservoir
3. If water cooled engine, check coolant level
4. Check fuel level
5. Check battery water level, leads and make sure that the isolator switch is on
6. Make sure that emergency stop button is not engaged
7. Make sure that small priming valve on the side of priming tank is closed
8. Make sure that the main priming valve on the top of priming tank is open
9. Make sure that the safety valve on the top of the priming tank is always open
10. Physically check the engine and pump for oil and water leaks
11. Make sure that the discharge valve is half open
12. Make sure that the inlet pipework is clear and away from obstacles
13. Make sure the area around the pump is safe i.e. clear of debris and other personnel
14. Start engine
15. Set the engine speed for required duty point
16. Throttle the discharge valve for correct duty point.

**Do not:**

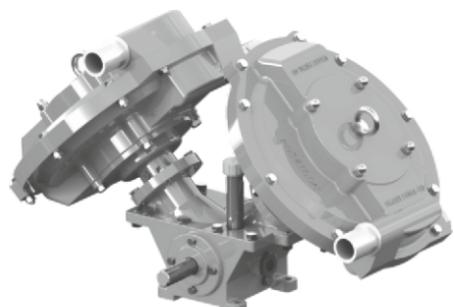
- Run pump with closed discharge valve for any length of time
- Run the pump outside of its operating limits



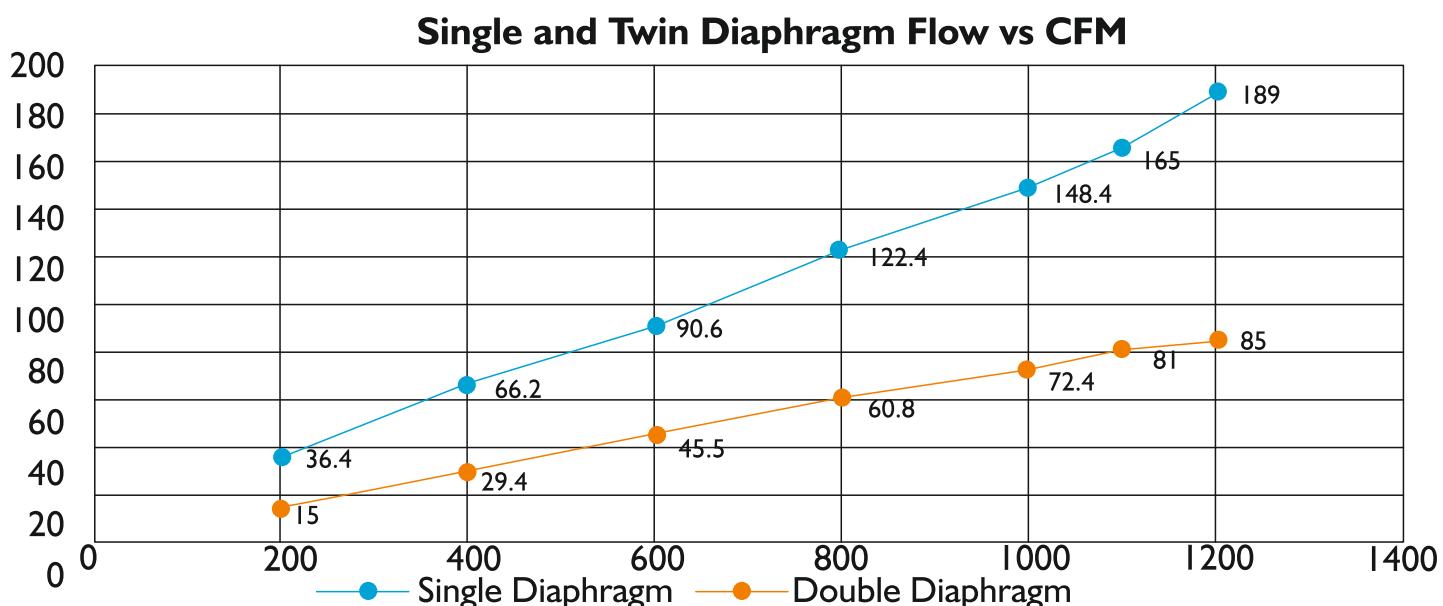
# VACUUM ASSISTED DIAPHRAGM PUMP



Single Diaphragm



Twin Diaphragm



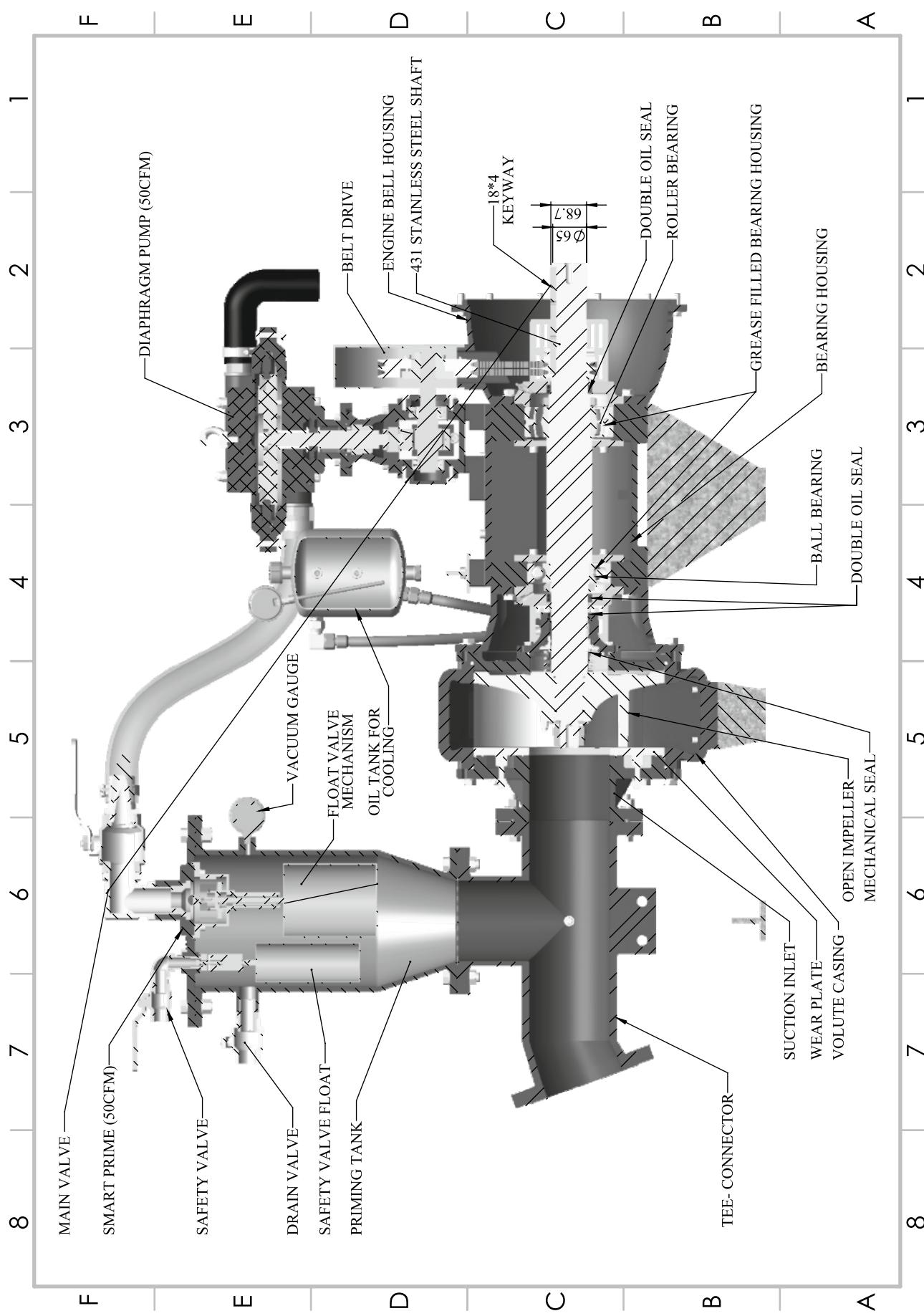
## Priming times 60 cfm

Pipe internal diameter mm	Area m <sup>2</sup>	60cfm Volume pumps m <sup>3</sup> /sec	Pipe fluid speed m/sec	time for priming in seconds									
				10m	20m	30m	40m	50m	60m	100m	200m	300m	
80	0.005029	0.02359	4.691193	2.13	4.26	6.39	8.53	10.66	12.79	21.32	42.63	63.95	
100	0.007857	0.02359	3.002364	3.33	6.66	9.99	13.32	16.65	19.98	33.31	66.61	99.92	
150	0.017679	0.02359	1.334384	7.49	14.99	22.48	29.98	37.47	44.96	74.94	149.88	224.82	
200	0.031429	0.02359	0.750591	13.32	26.65	39.97	53.29	66.61	79.94	133.23	266.46	399.69	

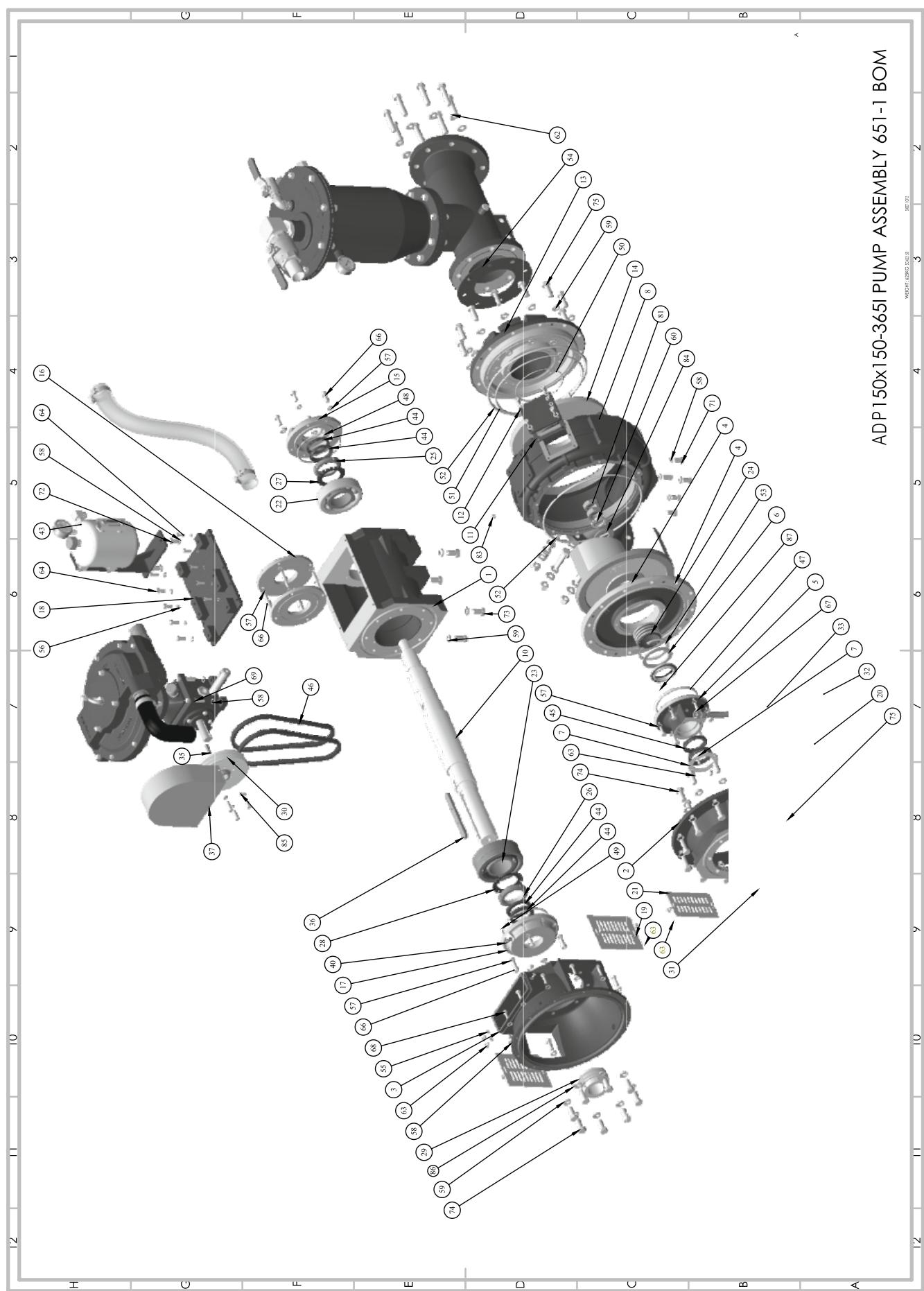
## Priming times 120 cfm

Pipe internal diameter mm	Area m <sup>2</sup>	60cfm Volume pumps m <sup>3</sup> /sec	Pipe fluid speed m/sec	time for priming in seconds									
				10m	20m	30m	40m	50m	60m	100m	200m	300m	
80	0.005029	0.04718	9.382386	1.07	2.13	3.20	4.26	5.33	6.39	10.66	21.32	31.97	
100	0.007857	0.04718	6.004727	1.67	3.33	5.00	6.66	8.33	9.99	16.65	33.31	49.96	
150	0.017679	0.04718	2.668768	3.75	7.49	11.24	14.99	18.74	22.48	37.47	74.94	112.41	
200	0.031429	0.04718	1.501182	6.66	13.32	19.98	26.65	33.31	39.97	66.61	133.23	199.84	

## ADP SERIES EXPLODED VIEW (WET END)



# ADP SERIES EXPLODED VIEW



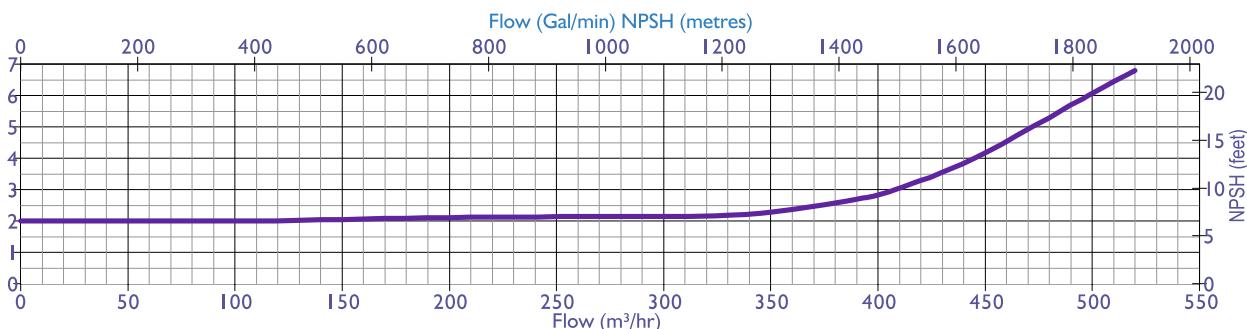
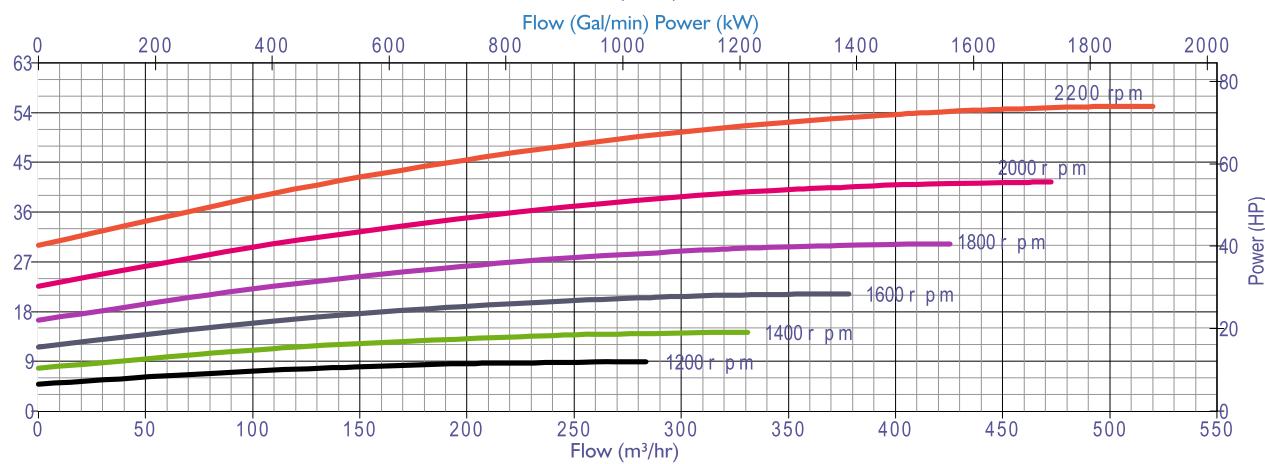
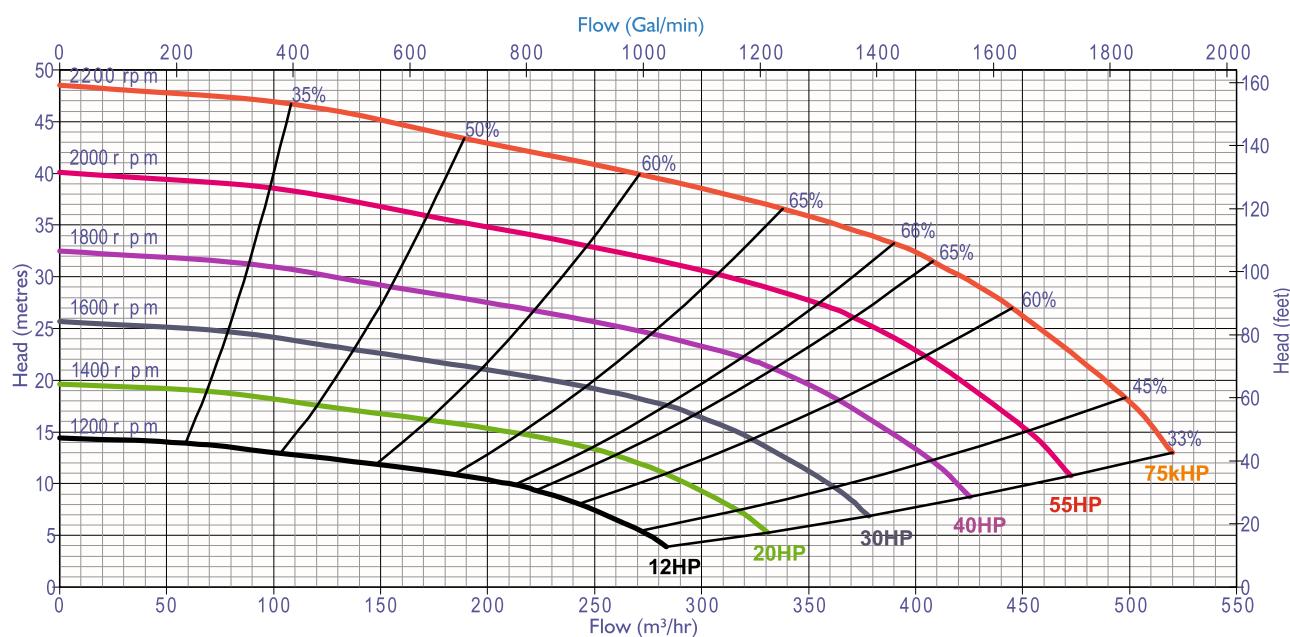
# ADP Series

**ALGO**  
PUMPS | MOTORS | DRIVES

	ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	Default/QT Y.
K	1	401-IHP	BEARING HOUSING	SGI500/7	1
K	2	460 IHP-M	PUMP SIDE BELL HOUSING	SGI500/7	1
J	3	420 IHP-M	BELL HOUSING FOR ENGINE SIDE.	SGI500/7	1
J	4	455-M	BACK PLATE FOR VOLUTE CASING	SGI500/7	1
J	5	470 DR M	Mechanical seal housing	SGI500/7	1
J	6	SHIM70	FLAT WASHER FOR MECHANICAL SEAL	SS304	1
J	7	470-1	OIL SEAL LOCK RING	MILD STEEL	1
J	8	901BS-M	LP-SERIES VOLUTE CASING	SGI500/7	1
J	9	971-M	IMPELLER 6" PUMP	SS316L	1
H	10	949	PUMP (DRY RUNNING) SHAFT	SS431	1
H	11	995	INSPECTION COVER GASKET	NBR	1
H	12	986-M	INSPECTION COVER FOR LP-SERIES 6" PUMP	SGI500/7	1
G	13	916 BS-M	6" SUCTIN INLET	SGI500/7	1
G	14	931-M	WEAR PLATE	SS316L	1
G	15	401-1-M	BEARING COVER	FG260	1
G	16	401-2-M	BEARING COVER	FG260	2
G	17	401-4-M	BEARING FRONT COVER	FG260	1
F	18	401-5	BEARING HOUSING PLATE WITH STAND	SGI500/7	1
F	19	420-1	MESH FOR ENGINE BELL HOUSING	SS304	2
F	20	460-1	MESH FOR PUMP SIDE BELL HOUSING	SS304	1
F	21	460-2	MESH FOR PUMP SIDE BELL HOUSING	SS304	1
F	22	6315	RADIAL BALL BEARING		1
F	23	22316-E1	ROLLER BEARING		1
F	24	D70-MS	DIA. 70mm MECHANICAL SEAL		1
F	25	KM15	LOCK NUT	MS/EN8	1
F	26	KM16	LOCK NUT	MS/EN8	1
F	27	MB15A	LOCK WASHER		1
F	28	MB16A	LOCK WASHER		1
F	29	101	SHAFT PULLEY	En-8	1
F	30	103	DIAPHRAGM PULLEY	EN-8	1
F	31	SLINGER70	DIA. 70mm WATER SLINGER	NYLON	1
E	32	SH0.5" X 500 (651)	OIL HOSE 500MM LONG WITHOUT BEND BOTH SIDE BSP1/2" NUT	SS 304	1
E	33	SH0.5" X 600 (651)	OIL HOSE 600MM LONG WITHOUT BEND BOTH SIDE BSP1/2" NUT	SS 304	1
E	34	FH-050	FLEX HOSE-50mm		1
E	35	KS6.3X6.3X35	DIAPHARM PUMP KEY	KEY STEEL	1
E	36	KS18X11X204	ENGINE SHAFT KEY	KEY STEEL	1
D	37	483	PRIMING PUMP PULLY GUARD (WITH 420IHP BELL HOUSING) PART NO. 483	SS304	1
D	38	HC63-68-MS	HOSE CLAMPS 2"	SS304	2
D	39	BSP 1/2" HCS	ADAPTOR 1/2" BSP	SS304	2
D	40	114"NPT	GREASE NIPPLE FOR LUBRICATION	ZP-BLUE	2
D	41	SMARTPRIME50	SINGLE CAM DIAPHRAGM PUMP POSEIDON		1
D	42	PRIME150	PRIMING TANK 150		1
D	43	491-1	3LTR MECHANICAL SEAL COOLING OIL TANK		1
E	44	TC12898	70 X 88 X 8mm BACK OIL SEAL	VITON	4
E	45	TC12595	70 X 85 X 8mm BACK OIL SEAL	VITON	2
E	46	AX39	BELT-AX39		2
E	47	BS360	O-RING 148.59*5.33mm	VITON	1
E	48	BS164	O-RING 158.42*2.62mm	VITON	1
E	49	BS165	O-RING 164.77*2.62mm	VITON	1
E	50	BS261	O-RING 171*3.53mm		1
E	51	O-RING 325X3.53	O-RING 325*3.53mm	VITON	1
E	52	BS457	O-RING 355*7mm	VITON	2
E	53	J110	CIRCLIP 110*4		1
E	54	GK6"	6" GASKET		1
D	55	SW-6	SPRING WASHER M6	ZP-BLUE	4
D	56	SW-8	SPRING WASHER M8	ZP-BLUE	11
D	57	SW-10	SPRING WASHER M10	ZP-BLUE	30
D	58	SW-12	SPRING WASHER M12	ZP-BLUE	22
D	59	SW-16	SPRING WASHER M16	ZP-BLUE	44
D	60	NL36SS	NORD LOCK WASHER	SS	1
D	61	FW-10	FLAT WASHER M10	ZP-BLUE	4
D	62	FW-16	FLAT WASHER M16	ZP-BLUE	32
D	63	HHB6 X12	HEX HEAD BOLT M6*12	ZP-BLUE	16
D	64	HSHB8 X 25	HEX SOCKET HEAD BOLT M8*25	ZP-BLUE	10
D	65	HSH10X25	HEX SOCKET HEAD BOLT M10*25	ZP-BLUE	4
C	66	HSB10X 1 X 30	HEX SOCKET HEAD BOLT M10*1*30	BLACK	16
C	67	HHB10 X 30	HEX HEAD BOLT M10*30	ZP-BLUE	6
C	68	HHB10 X 35	HEX HEAD BOLT M10*35	ZP-BLUE	12
C	69	HHB12X1.5 X 40	HEX HEAD BOLT M12*1.5*40	ZP-BLUE	4
C	70	HHB10 X 55 X 26	HEX HEAD BOLT M10*55	ZP-BLUE	4
C	71	HHB12 X 25	HEX HEAD BOLT M12*25	ZP-BLUE	4
C	72	HHB12X1.5 X 25	HEX HEAD BOLT M12*1.5*25	ZP-BLUE	2
C	73	HHB16X1.5X30	HEX HEAD BOLT M16*1.5*30	BLACK	4
C	74	HHB16X1.5X40	HEX HEAD BOLT M16*1.5*40	BLACK	16
C	75	HHB16 X 50	HEX HEAD BOLT M16*50	ZP-BLUE	24
C	76	HHB16 X 80	HEX HEAD BOLT M16*80	ZP-BLUE	16
C	77	ST8 X 40	STUD M8*40	ZP-BLUE	1
B	78	N8	NUT M8	ZP-BLUE	1
B	79	N-10	NUT M10	ZP-BLUE	4
B	80	N16	NUT M16	ZP-BLUE	16
B	81	HN36X2 SS304	IMPELLER NUT M30	SS304	2
B	82	BSP1/2"	DRAIN PLUG 1/2" BSP	ZP-BLUE	1
B	83	BSP1/4"	DRAIN PLUG 1/4" BSP	ZP-BLUE	1
B	84	FW36 SS304	IMPELLER WASHER M30	SS 304	1
B	85	GS6 X 8	GURB SCREW M6*8	SS304	1
B	86	GS10 X 10	GURB SCREW M10*10	SS304	1
B	87	D4 X 10	DOWEL PIN 4*10		1

Pump Type:	Engine Rating (kW/HP):	Model Number	Total Head (m):
De-watering (surface)	55Kw - 2200 rpm	LP 150 x 150 - 282	48
Pump Serial Number:	Max impeller dia	Type of impeller	Max. Discharge (m3/hr):
LP 150 x 150 - 000702	282	3 vane semi open impeller	500
Delivery Size (inch):	Suction size	Impeller Dia	Speed Range(rpm)
150mm	150mm	282mm	1500 to 2200 rpm
Number of Stages in Pump:	Efficiency	Max. solid handling	Method of coupling
I	64%	75mm or 3 inches	SAE 3/10

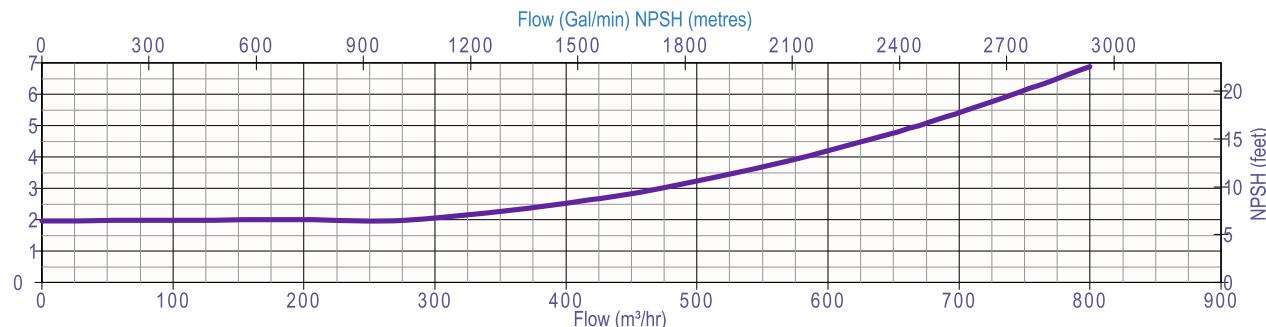
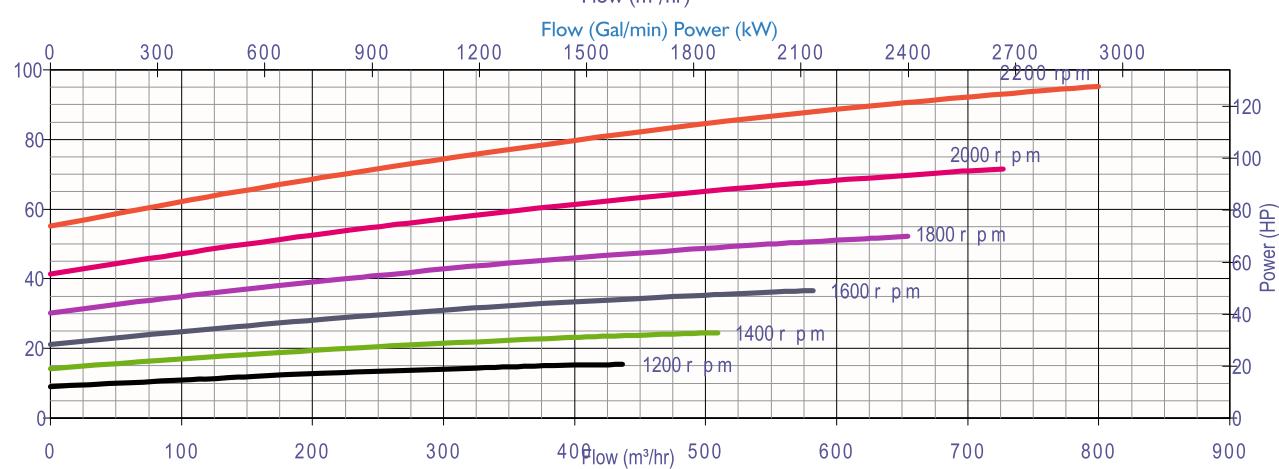
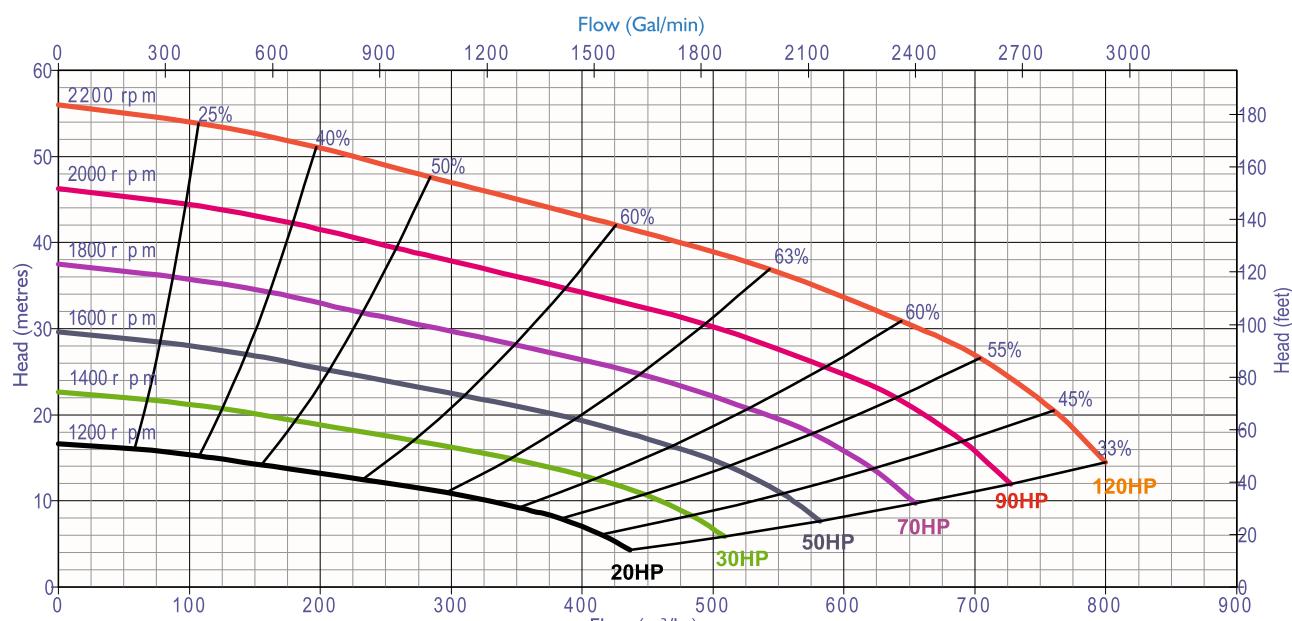
### PERFORMANCE CURVE



Specifications subject to change without notice

Pump Type:	Engine Rating (kW/HP):	Model Number:	Total Head (m):
De-watering (surface)	110Kw - 2200 rpm	LP 200 x 200 - 295	55
Pump Serial Number:	Max impeller dia	Type of impeller	Max. Discharge (m3/hr):
LP 200 x 200 - 000702	295mm	3 vane semi open impeller	800
Delivery Size (inch):	Suction size	Impeller Dia	Speed Range(rpm)
200mm	200mm	295mm	1500 to 2200 rpm
Number of Stages in Pump:	Efficiency	Max. solid handling	Method of coupling
I	62%	75mm or 3 inches	SAE 3/10

### PERFORMANCE CURVE



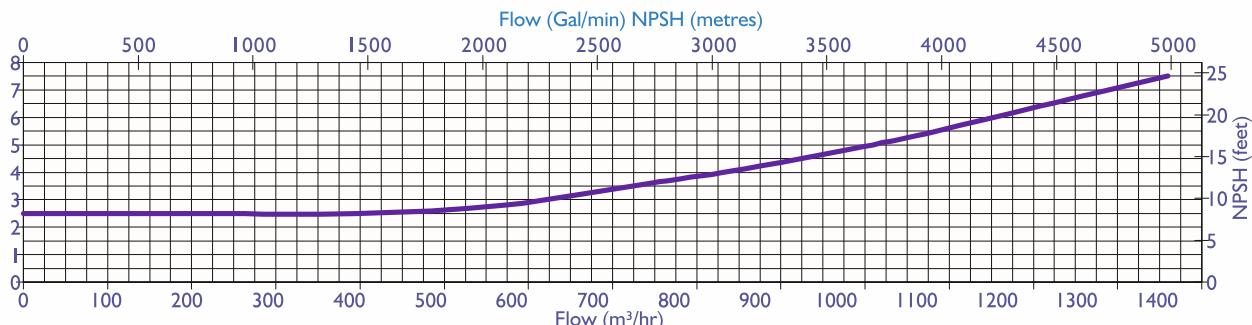
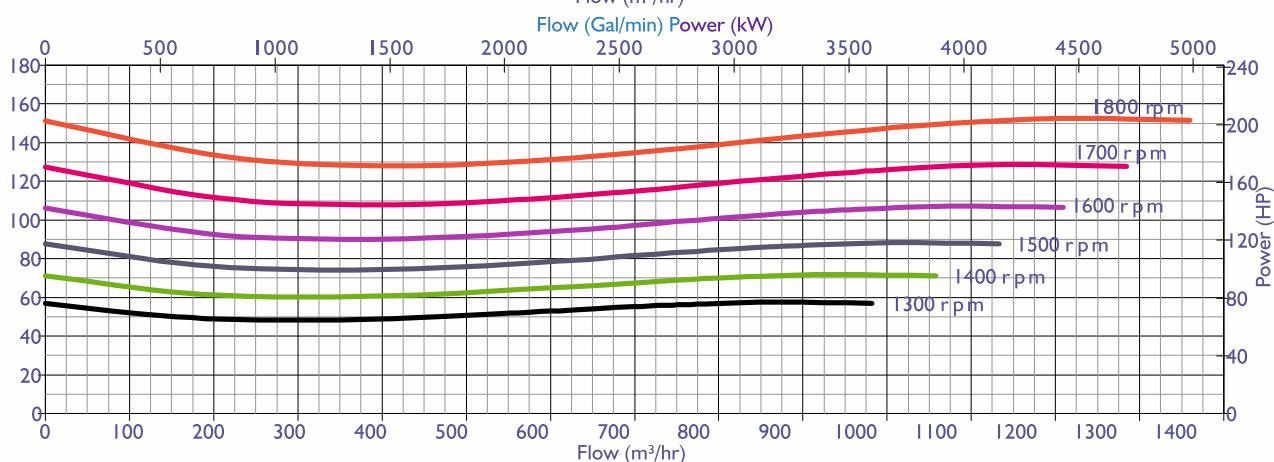
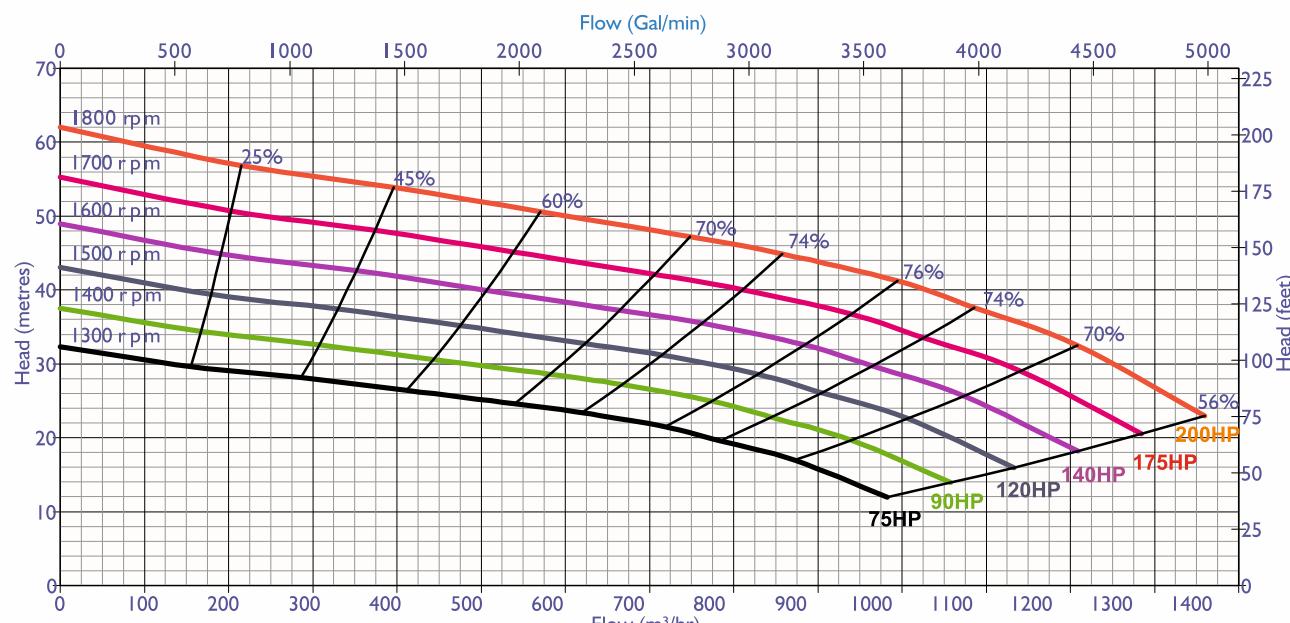
Specifications subject to change without notice

# Model : ADP-300/359

## 12" Dewatering Pumps With Priming System

Pump Type:	Engine Rating (kW/HP):	Model Number:	Total Head (m):
De-watering (surface)	160Kw - 1800 rpm	ADP 300 x 300 - 359	62
Pump Serial Number:	Max impeller dia	Type of impeller	Max. Discharge (m3/hr):
ADP 300 x 300 - 000702	359mm	3 vane semi open impeller	1400
Delivery Size (inch):	Suction size	Impeller Dia	Speed Range(rpm)
300mm	300mm	359mm	1500 to 1800 rpm
Number of Stages in Pump:	Efficiency	Max. solid handling	Method of coupling
I	75%	100mm or 4 inches	SAE 3/10

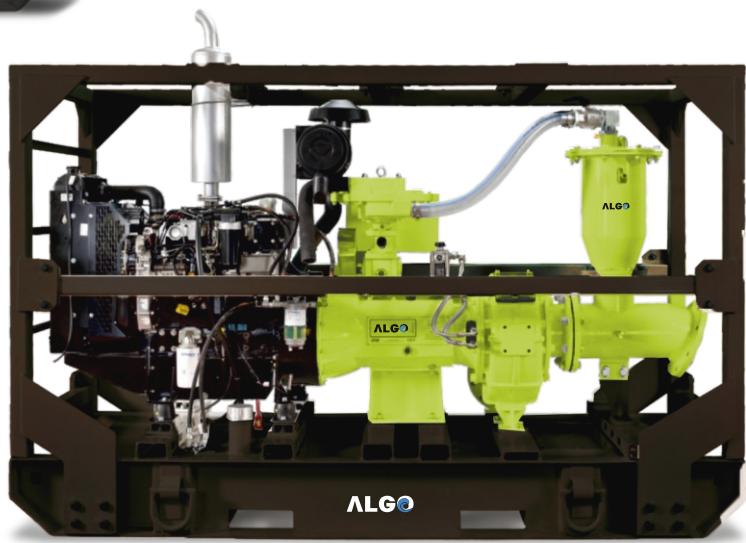
### PERFORMANCE CURVE



Specifications subject to change without notice



All pumps can be supplied with optional sound and weather covers for the engine only or for the whole pump-set.

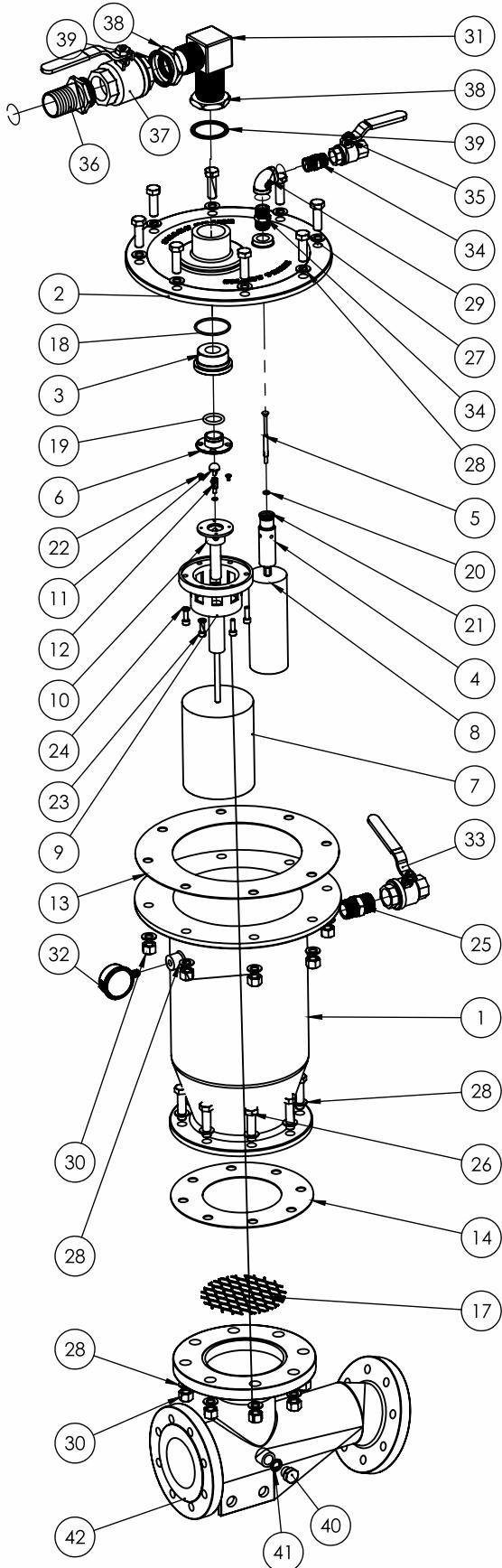


Algo pumps can be mounted on a variety of base types and coupled to a large range of different engine makes and models.



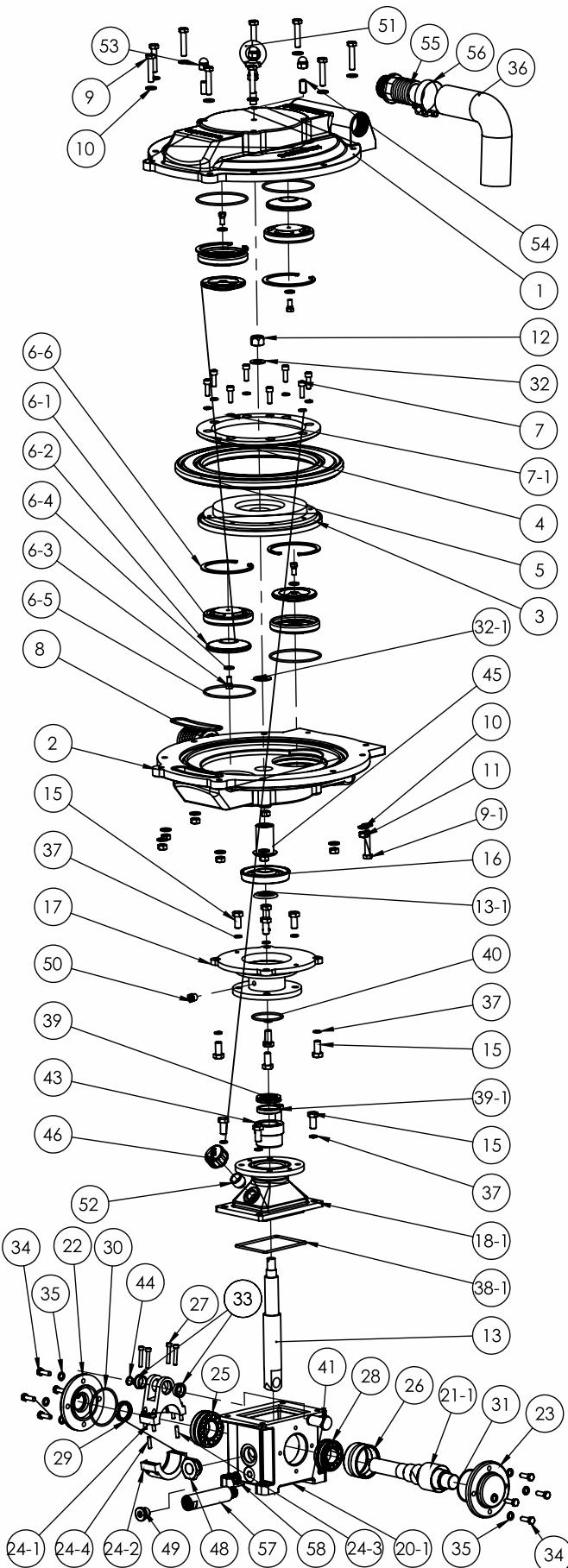
All pump types can be trailer mounted, in either a heavy duty road or site trailer configuration

# PRIMING CHAMBER (AIR & WATER SEPERATOR)



SL.NO	PART NO.	DESCRIPTION	MATERIAL	QTY
1	PRIME50TANK-1	PRIMING TANK	SGI500/7	1
2	PRIME50TANK-2	TOP FLANGE	SGI500/7	1
3	PRIME50TANK-3	MAIN VALVE INSERT	SS304	1
4	PRIME50TANK-4	SAFETY VALVE BODY	SS304	1
5	PRIME50TANK-5	SAFETY VALVE	SS304	1
6	PRIME50TANK-6	VALVE BODY	SS304	1
7	PRIME50TANK-7	MAIN FLOAT	SS304	1
8	PRIME50TANK-8	SAFETY FLOAT	SS304	1
9	PRIME50TANK-9	LARGE VALVE HOUSING	SS304	1
10	PRIME50TANK-10	SMALL VALVE HOUSING	SS304	1
11	PRIME50TANK-11	SMALL VALVE RUBBER WITH SCREW ON THREAD	SS304	1
12	PRIME50TANK-12	MAIN FLOAT EXTENSION	SS304	1
13	PRIME50TANK-13	PRIMING TANK TOP FLANGE GASKET	RUBBER	1
14	PRIME50TANK-14	PRIMING TANK BOTTOM FLANGE GASKET	SS304	1
17	PRIME50TANK-17	STAINLESS STEEL MESH GRATE 166mm DIAMETERx2mm THICK	SS304	1
18	PRIME50TANK-18	O-RING - BS230 (63.5*3.53)	NBR	1
19	PRIME50TANK-19	O-RING - (28*6)	NBR	1
20	PRIME50TANK-20	O-RING - BS109 (7.94*2.62)	NBR	1
21	PRIME50TANK-21	O-RING - BS213 (23.81*3.53)	NBR	1
22	M5X10-SS304	M5 COUNTERSUNK SCREW X 10mm LONG	SS304	4
23	BCH8X25-SS304	CAP HEAD SCREWS	SS304	6
24	SW8-SS304	M8 SPRING WASHER	SS304	6
25	1" SHC	1" HEX EXTENSION CONNECTOR	SS304	1
26	BHH16X60	M16 BOLTx60mm LONG	ZINC BLUE	8
27	BHH16X50	M16 BOLTx50mm LONG	ZINC BLUE	8
28	FW16-G	M16 FLAT WASHER	ZINC BLUE	32
29	3/4" BSP	3/4" BSP ELBOW	SS304	1
30	N16-G	M16 NUT	ZINC BLUE	16
31	MFE-2"	2" BSP M&F ELBOW	SS304	1
32	1/4" VACUUM GAUGE	VACUUM GAUGE	A79	1
33	1""BSP BALL VALVE	1" BALL VALVE	SS304	1
34	3/4" SHC	3/4" HEX EXTENSION CONNECTOR	SS304	2
35	3/4"VALVE	3/4" BSP BALL VALVE	SS304	1
36	2"NPL	2" BSP NIPPLE	En8 Zinc Blue	1
37	2" VALVE	2" BSP BALL VALVE	SS304	1
38	2"-N	2" BSP NUT	ZINC BLUE	2
39	2" RW	2" RUBBER INSERT WASHER	ZINC BLUE	2
40	BHH 1/2"	DRAIN CAP - 1/2" BSP	ZINC BLUE	1
41	GS1/2"	GASKET 1/2' RUBBER INSERT		1
42		T-CONNECTOR		
42-1	TDR100-BL	TEE CONNECTOR 100mm	SGI500/7	1
42-2	TDR125-BL	TEE CONNECTOR 125mm	SGI500/7	1
42-3	TDR150-BL	TEE CONNECTOR 150mm	SGI500/7	1
42-4	TDR200-BL	TEE CONNECTOR 200mm	SGI500/7	1
42-5	TDR250-BL	TEE CONNECTOR 250mm	SGI500/7	1
42-6	TDR300-BL	TEE CONNECTOR 300mm	SGI500/7	1

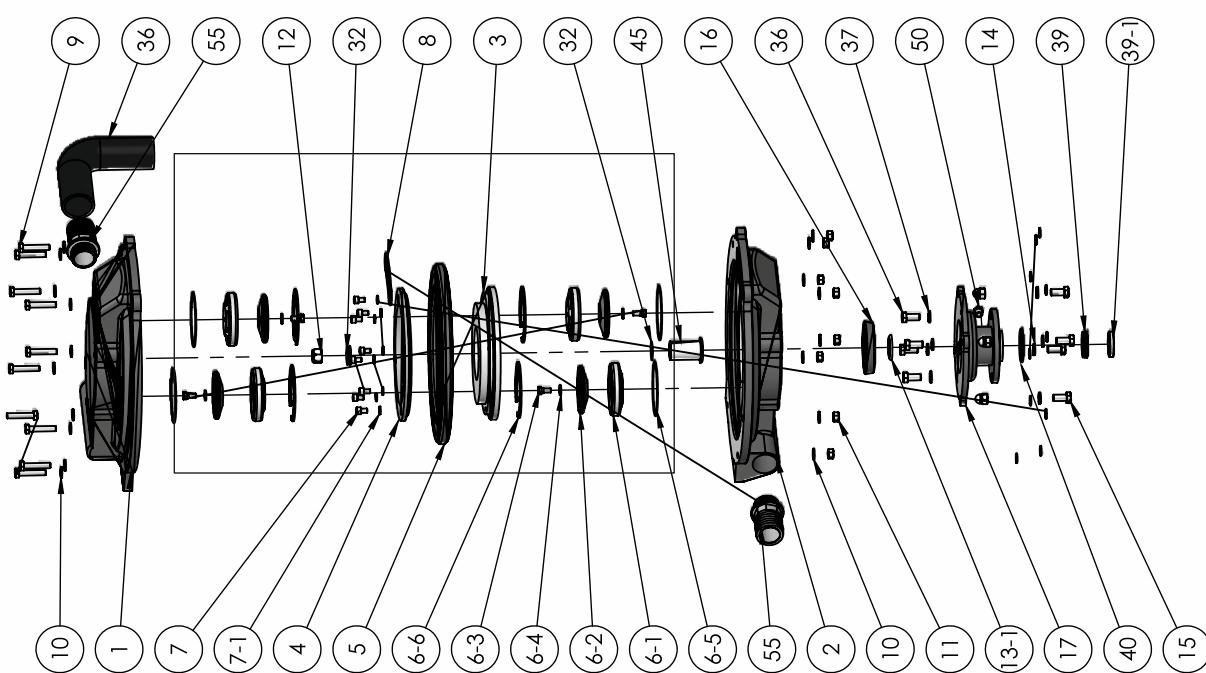
# DIAPHRAGM PUMP (50 CFM)



SL.No.	PART NUMBER	DESCRIPTION	MATERIAL	QTY
1	PRIME50-1	UPPER BODY CASING	ALUMINIUM	1
2	PRIME50-2	LOWER BODY CASING	ALUMINIUM	1
3	PRIME50-3	MAIN DIAPHRAGM DISC	ALUMINIUM	1
4	PRIME50-4	DIAPHRAGM LOCKING RING	ALUMINIUM	1
5	PRIME50-5	MAIN DIAPHRAGM	BUTA N RUBBER	1
6	PRIME50-6	VALVE ASSEMBLY		4
6-1	PRIME50-6-1	VALVE BODY	ALUMINIUM	4
6-2	PRIME50-6-2	VALVE RUBBER	BUTA N RUBBER	4
6-3	PRIME50-6-3	SUPPORT BOLT-M8X10/14	SS-304	4
6-4	PRIME50-6-4	SUPPORT FLAT WASHER- 10.5*20*2	304 STAINLESS STEEL	4
6-5	BS 045	O-RING - 101.34*1.78 (BS 045)	BUTA N RUBBER	4
6-6	J100	INTERNAL CIRCLIP	SPRING STEEL	4
7	BCH18x25-304SS	CAP HEAD BOLTS	SS-304	8
7-1	SW8-304SS	SPRING WASHER-M8	SS-304	8
8	BS 239	O-RING - 92*3.53 (BS 239)	BUTA N RUBBER	1
9	BHH10x50	CASING BOLT-M10X50	ZINC BLUE	8
9-1	BHH10x40	CASING BOLT-M10X40	ZINC BLUE	2
10	FW10	CASING FLAT WASHER(FW10)	ZINC BLUE	18
10-1	SW10	CASING SPRING WASHER(SW10)	ZINC BLUE	10
11	N10	CASING NUT(N10)	ZINC BLUE	8
12	HN10	PREVAILING TORQUE M16 NUT	ZINC BLUE	1
13	PRIME50-13	UPPER SHAFT	16MnCr5/20MnCr5	1
13-1	PRIME50-13A	UPPER SHAFT WASHER	SS 304	1
15	BHH12x25	BOLT-M12X25	ZINC BLUE	12
16	PRIME50-16	UPPER SHAFT SEALING RUBBER	BUTA N RUBBER	1
17	PRIME50-17	SHAFT HOUSING	CS En-SGS-500/7	1
18	PRIME50-18	CONNECTION HOUSING SINGLE UNIT ON SINGLE BASE	CS En-SGS-500/7	1
20-1	PRIME50-20-1	BEARING HOUSING-SINGLE CAM SHAFT	CS En-SGS-500/7	1
21-1	PRIME50-21-1	CAM SHAFT-SINGLE CAM SHAFT	16MnCr5/20MnCr5	1
22	PRIME50-22	FRONT BEARING COVER	CS En-SGS-500/7	1
23	PRIME50-23	BACK BEARING COVER	CS En-SGS-500/7	1
24	PRIME50-24	CONROD ASSEMBLY		1
24-1	PRIME50-24-1	UPPER BODY CASING	SS304	1
24-2	PRIME50-24-2	LOWER BODY CASING	SS304	1
24-3	PRIME50-24-3	DOWEL PIN 6x25	En-31	2
25	22207-E1	FRONT SHAFT BEARING	Spherical roller bearing	1
26	FAG NK55/35	CAM SHAFT BEARING	Needle roller bearing	1
27	BCH6X30	CAP HEAD SCREW M6X30	Unbreakable black finish	4
28	22206-E1	BACK SHAFT BEARING	Spherical roller bearing	1
29	TC12487	LIP SEAL - 40*30*7	BUTA N RUBBER	1
30	BS 149	O-RING FOR FRONT COVER-71.12*2.62	BUTA N RUBBER	1
31	BS 143	O-RING FOR BACK COVER - 61.91*2.62 (BS 143)	BUTA N RUBBER	1
32	PRIME50-32	SHAFT SLEEVE WASHER-35*20*2	SS 304	1
32-1	PRIME50-32-1	TORQUE NUT WASHER-30*16.5*2	SS 304	1
33	PRIME50-33	CONNECTING ROD BUSH	BRONZE	2
34	BHH8x25-ZP	COVER BOLT-M8X25	ZINC BLUE	8
35	SW8-ZP	SPRING WASHER (SW8)	ZINC BLUE	12
36	PRIME50-36	RUBBER HOSE	RUBBER	1
37	SW12-ZP	SPRING WASHER(SW12)	ZINC BLUE	12
38-1	BS 157	O-RING FOR CONNECTION HOUSING COVER-SINGLE CAM-119.06*2.62(BS157)	BUTA N RUBBER	1
39		U-SEAL - 48*35*8	BUTA N RUBBER	1
39-1	PRIME50-39-1	U-SEAL LOCKING RING 48*38*8mm	En-8	1
40	BS 139	O-RING FOR CONNECTION HOUSING COVER - 55.25*2.62 (BS139)	BUTA N RUBBER	1
41	PRIME50-41	GUDGEON PIN	16MnCr5/20MnCr5	1
43	PRIME50-43	2" BSP WEAR BUSH	BRONZE	1
44	A20	EXTERNAL CIRCLIP 20mmX 1.5mm	SPRING STEEL	1
45	PRIME50-45	UPPER SHAFT SLEEVE	16MnCr5/20MnCr5	1
46	PRIME50-46	BREATHER CAP - 1/2"BSP		1
48	SG-98	OIL SIGHT GLASS-1"BSP	70411	1
49	BHH 1/2"-ZP	SOCKET HEAD OIL DRAIN CAP - 1/2"BSP WITH RUBBER GASKET INSERT TYPE	ZINC BLUE	1
50	P 15-B	PNEUMATIC SILENCER-1/4"	BRASS	1
51	PRIME50-51	EYE BOLT M12	ZINC BLUE	1
52	PRIME50-52 M	EXTENSION FOR BREATHER CAP	SS304	1
53	DN12	DOMED NUT M12	En-31	4
54	PRIME50-54	M12*25mm GURB SCREW	ZINC BLUE	4
55	PRIME50-55	M45*1.5mm Inlet/outlet Nipple	ZINC BLUE	2
56	PRIME50-56	HOSE CLAMP	SS	1
57	PRIME50-57	OIL DRAIN EXTENSION	EN8	1
58	PRIME50-58	1/2" GASKET METAL & RUBBER MOLDED		1

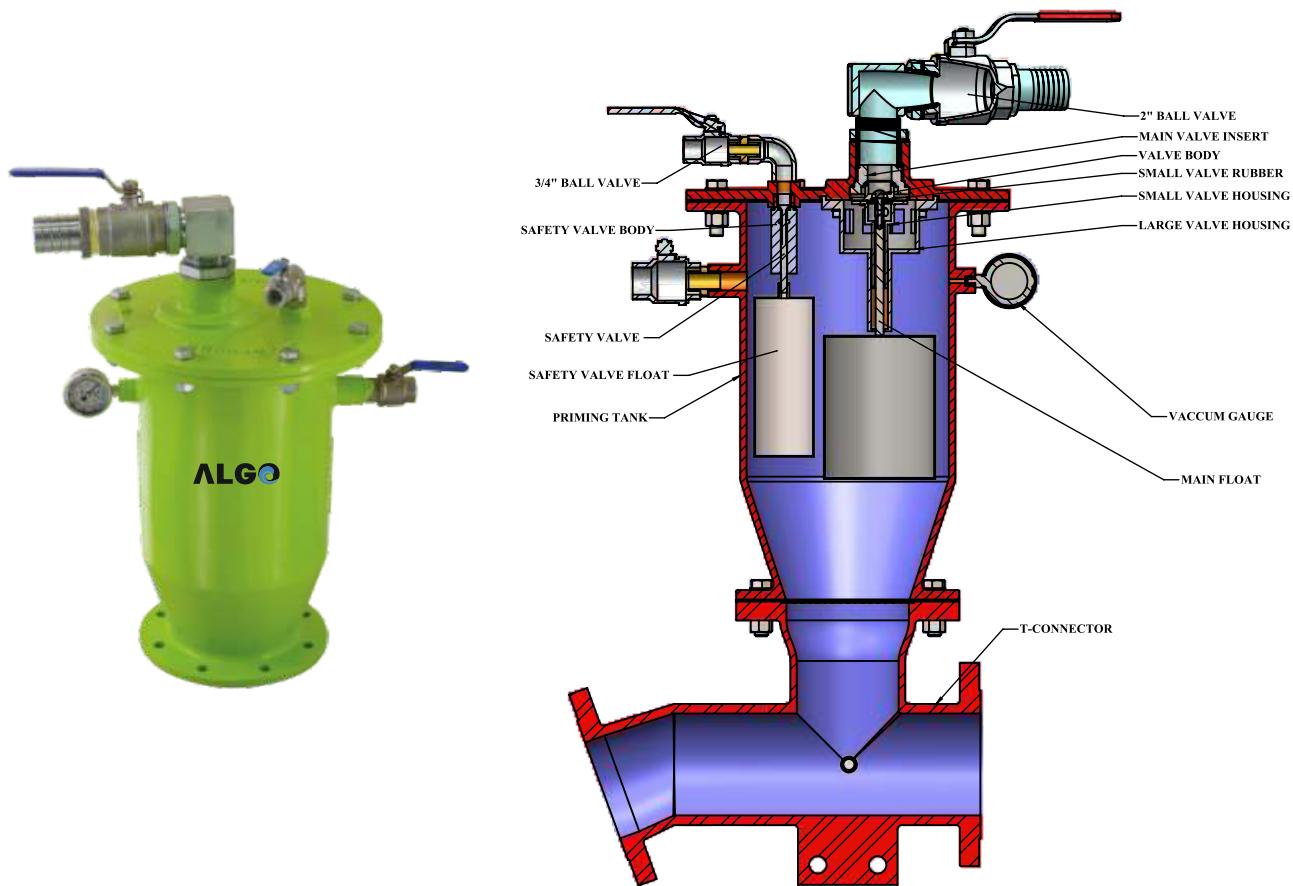
# DIAPHRAGM PUMP (50 CFM)

ITEM NUMBER	PART NUMBER	DESCRIPTION	MATERIAL	QTY
1	PRIME50-1	UPPER BODY CASING	LM-6	2
2	PRIME50-2	LOWER BODY CASING	LM-6	2
3	PRIME50-3	MAIN DIAPHRAGM DISC	LM-6	2
4	PRIME50-4	DIAPHRAGM LOCKING RING	LM-6	2
5	PRIME50-5	MAIN DIAPHRAGM	NEOPRANE 45	2
6	PRIME50-6	VALVE ASSEMBLY	NEOPRANE 45	8
6-1	PRIME50-6-1	VALVE BODY	LM-6	8
6-2	PRIME50-6-2	VALVE RUBBER	NEOPRANE 45	8
6-3	PRIME50-6-3	SUPPORT BOLT-M8X15	SS304	8
6-4	PRIME50-6-4	SUPPORT FLAT WASHER 10.2*20*2	SS304	8
6-5	BS 045	O-RING - 101.34*1.78 (BS 045)	NBR	8
6-6	J100	INTERNAL CIRCLIP		8
7	BCH8x2.5-304SS	CAP HEAD BOLTS	SS304	16
7-1	SW8-304SS	SPRING WASHER M8	SS304	16
8	BS 239	O-RING -92*5.53 (BS 239)	NBR	2
9	BHH10x50	CASING BOLT-M10X50	ZP	20
10	FW10	CASING FLAT WASHER(FW10)	ZP	40
10-1	SW10	CASING SPRING WASHER(SW10)	ZP	40
11	HN10	CASING NUT(N10)	ZP	20
12	CN16	PREVAILING TORQUE M6 NUT	ZP	2
13-1	PRIME50-13A	UPPER SHAFT WASHER	16MnCr5/20MnCr5	2
14	SW12-304SS	SPRING WASHER(SW12)	SS304	8
15	BHH12x25	BOLT-M12X25	ZP	8
16	PRIME50-16	UPPER SHAFT SEALING RUBBER	NEOPRANE 45	2
17	PRIME50-17	SHAFT HOUSING	SG1500/7	2
32	PRIME50-32	SHAFT SLEEVE WASHER - 35*20*2	SS304	4
36	PRIME50-36	RUBBER HOSE	RUBBER	2
39	TC12520	LIP SEAL -48x35x8	NBR	2
39-1	PRIME50-39-1	SHAFT HOUSING SEAL RING	En-8	2
2		48*38*8mm		
37		O-RING FOR CONNECTION HOUSING COVER - 36.82*2.62 (BS 140)	NBR	2
45	PRIME50-45	UPPER SHAFT SLEEVE	16MnCr5/20MnCr5	2
50	P15-B	AIR SILENCER - 1/4"		2
55	PRIME50-55	M45*1.5mm Inlet/Outlet Nipple	En-8 ZP	4
56	PRIME50-56	HOSE CLAMP		2



# Priming Chamber

## Air & Water Separator Exploded View



### PRIMING TIME FOR DOUBLE DIAPHRAGM PUMP

Pipe internal diameter mm	Area m2	60cfm volume pumps m3/sec	Pipe fluid speed m/sec	time for priming in seconds									
				10m	20m	30m	40m	50m	60m	100m	200m	300m	
80	0.005029	0.02359	4.691193	2.13	4.26	6.39	8.53	10.66	12.79	21.32	42.63	63.95	
100	0.007857	0.02359	3.002364	3.33	6.66	9.99	13.32	16.65	19.98	33.31	66.61	99.92	
150	0.017679	0.02359	1.334384	7.49	14.99	22.48	29.98	37.47	44.96	74.94	149.88	224.82	
200	0.031429	0.02359	0.750591	13.32	26.65	39.97	53.29	66.61	79.94	133.23	266.46	399.69	

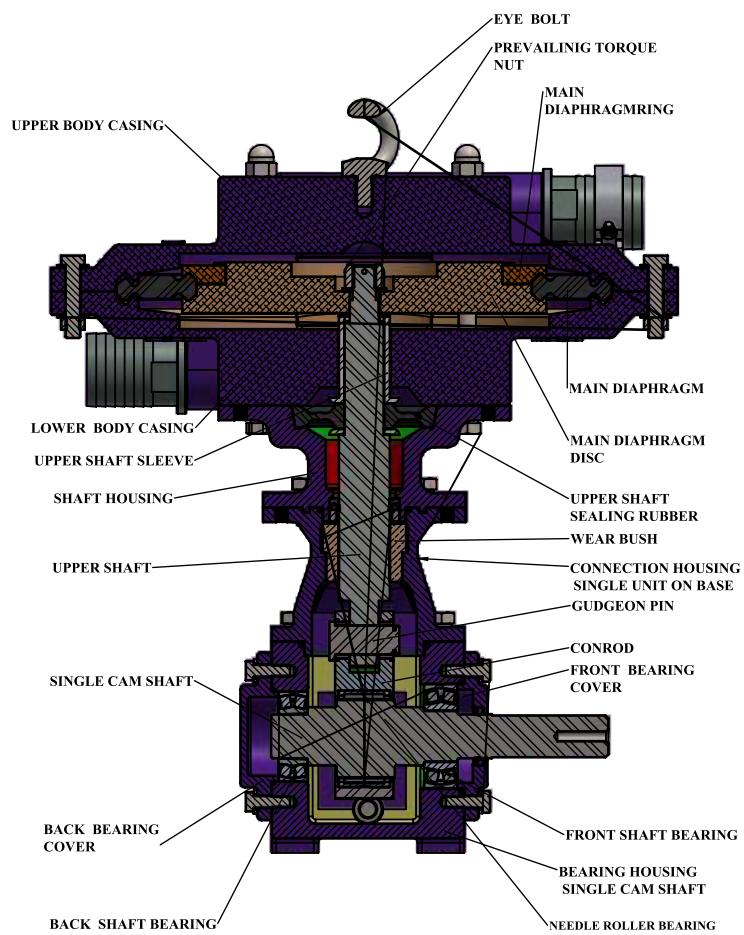
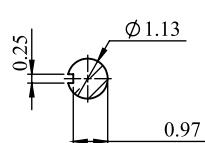
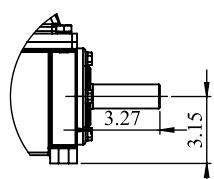
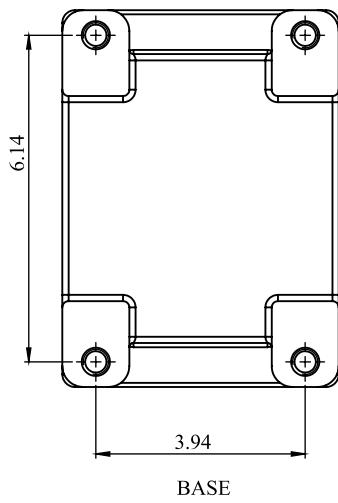
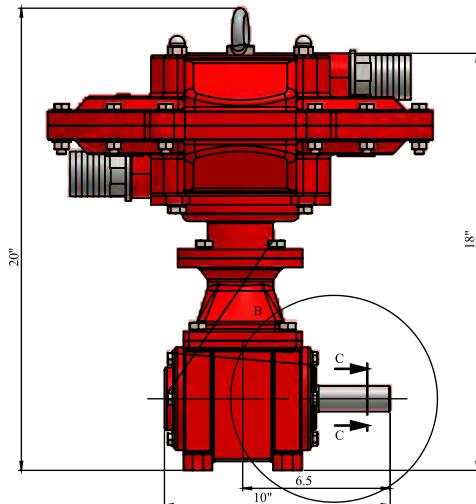
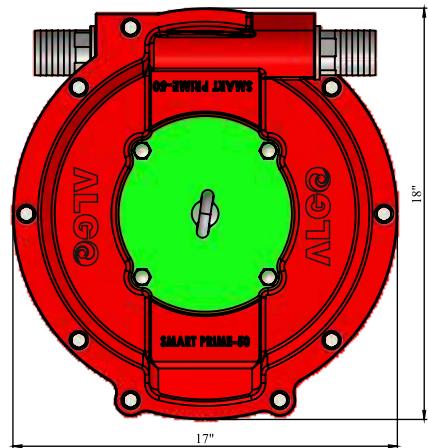
### PRIMING TIME FOR SINGLE DIAPHRAGM PUMP

Pipe internal diameter mm	Area m2	120cfm volume pumps m3/sec	Pipe fluid speed m/sec	time for priming in seconds									
				10m	20m	30m	40m	50m	60m	100m	200m	300m	
80	0.005029	0.04718	9.382386	1.07	2.13	3.20	4.26	5.33	6.39	10.66	21.32	31.97	
100	0.007857	0.04718	6.004727	1.67	3.33	5.00	6.66	8.33	9.99	16.65	33.31	49.96	
150	0.017679	0.04718	2.668768	3.75	7.49	11.24	14.99	18.74	22.48	37.47	74.94	112.41	
200	0.031429	0.04718	1.501182	6.66	13.32	19.98	19.98	33.31	39.97	66.61	133.23	199.84	

In view of continuous improvements in our design and process, The information, dimensions and specifications given herein are subject to change without notice.

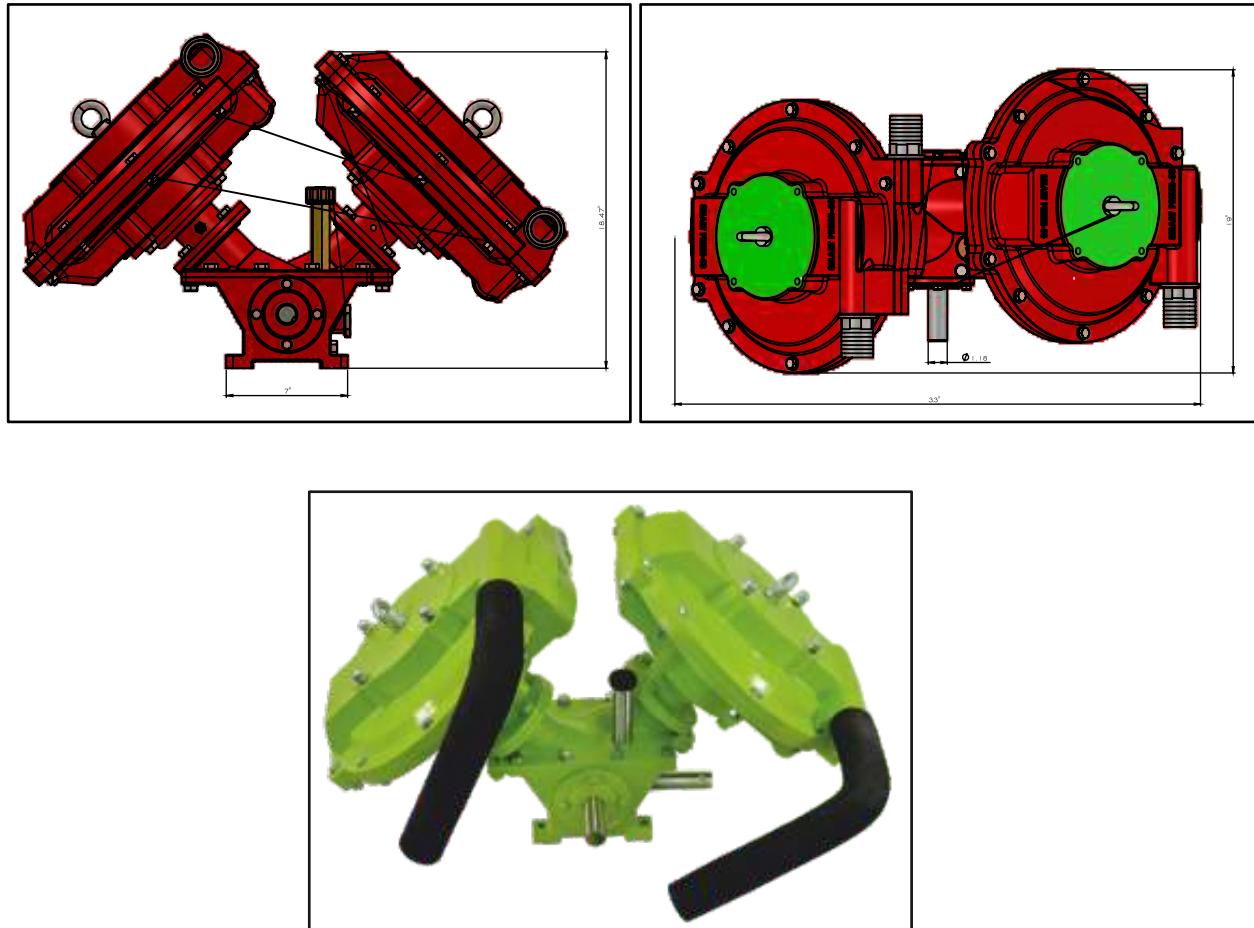
# Single Diaphragm Pump

## Exploded View, Dimensions & Weight

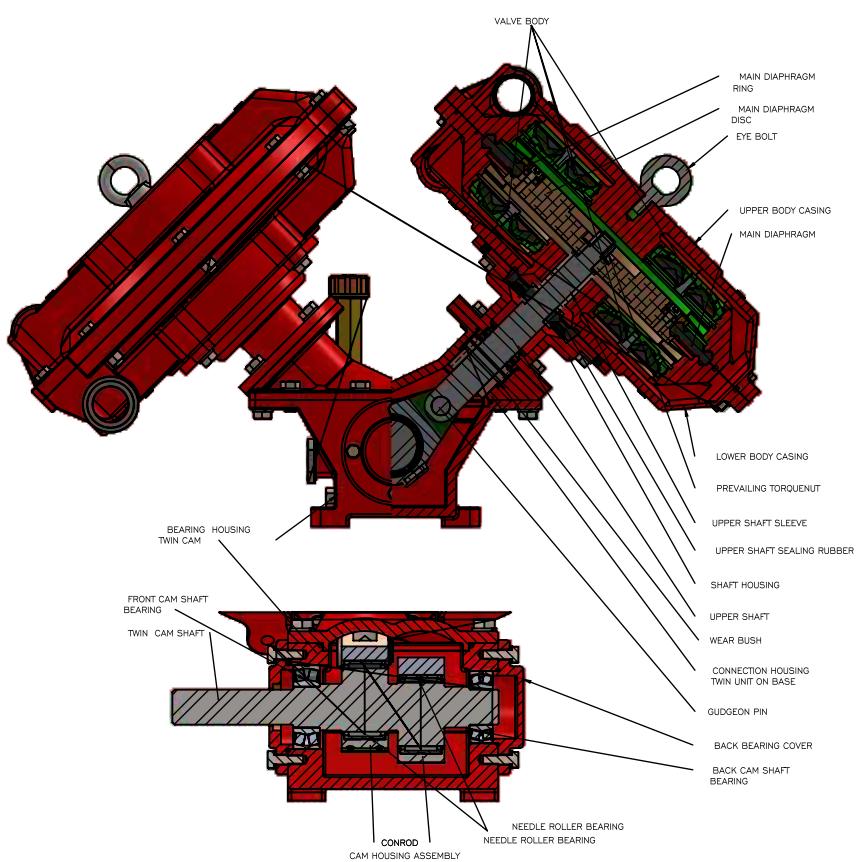


# Double Diaphragm Pump

## Exploded View & Dimensions



SMART PRIME-DOUBLE



# Vaccum Assited Priming System for Splitcase Pumps

The heart of the priming system is the priming vacuum pump. The ALGO diaphragm vacuum pump is specifically designed for priming large electrically and diesel driven water pumps.

The ALGO is diaphragm pump available in 50 and 100cfm configurations. Where the priming pump is used with large electrically driven water pumps, the priming pump is powered by its own single phase electrical motor (1.5Kw 4pole for the 50cfm pump and 2.2 Kw for the 100cfm pump). For diesel driven water pumps, the Smartprime™ vacuum pump is usually driven directly by the diesel engine.

The other major part of the priming system, is the priming tank. The priming tank and the priming vacuum pump can be used to automatically prime a number of "different" end suction centrifugal, or split case pumps at the same time.

The tank is fitted with 3 electrical probes (common, high water level and low water level) to automate the priming system.

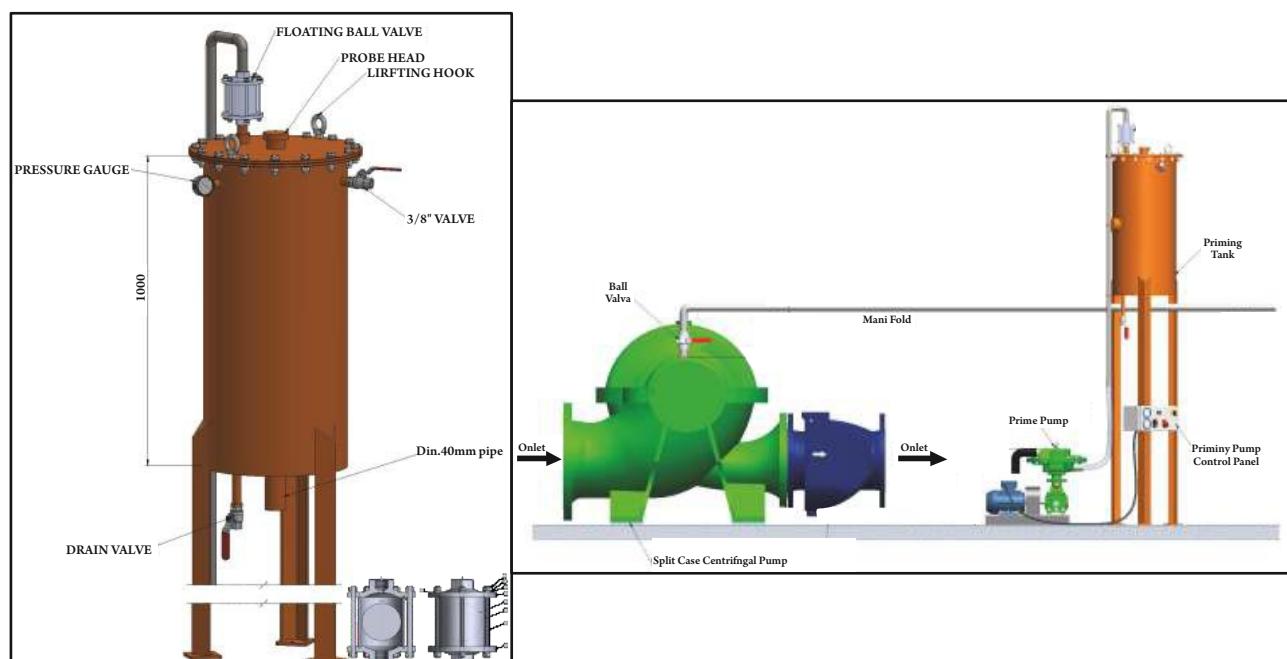
The bottom of the priming tank is usually place around 250mm above the highest pump priming point in the pumping station. This ensures that all water pump mechanical seals are adequately flooded before the water pumps are started.

The tank is fitted with an internal bafe to allow the water entering the tank to reduce the entry speed and calm the water in the tank.

The top of the priming tank will be fitted with a floating ball valve. The "ball" in the valve is a wooden, rubber coated, ball that will float in water. The purpose of the floating ball valve is two fold:

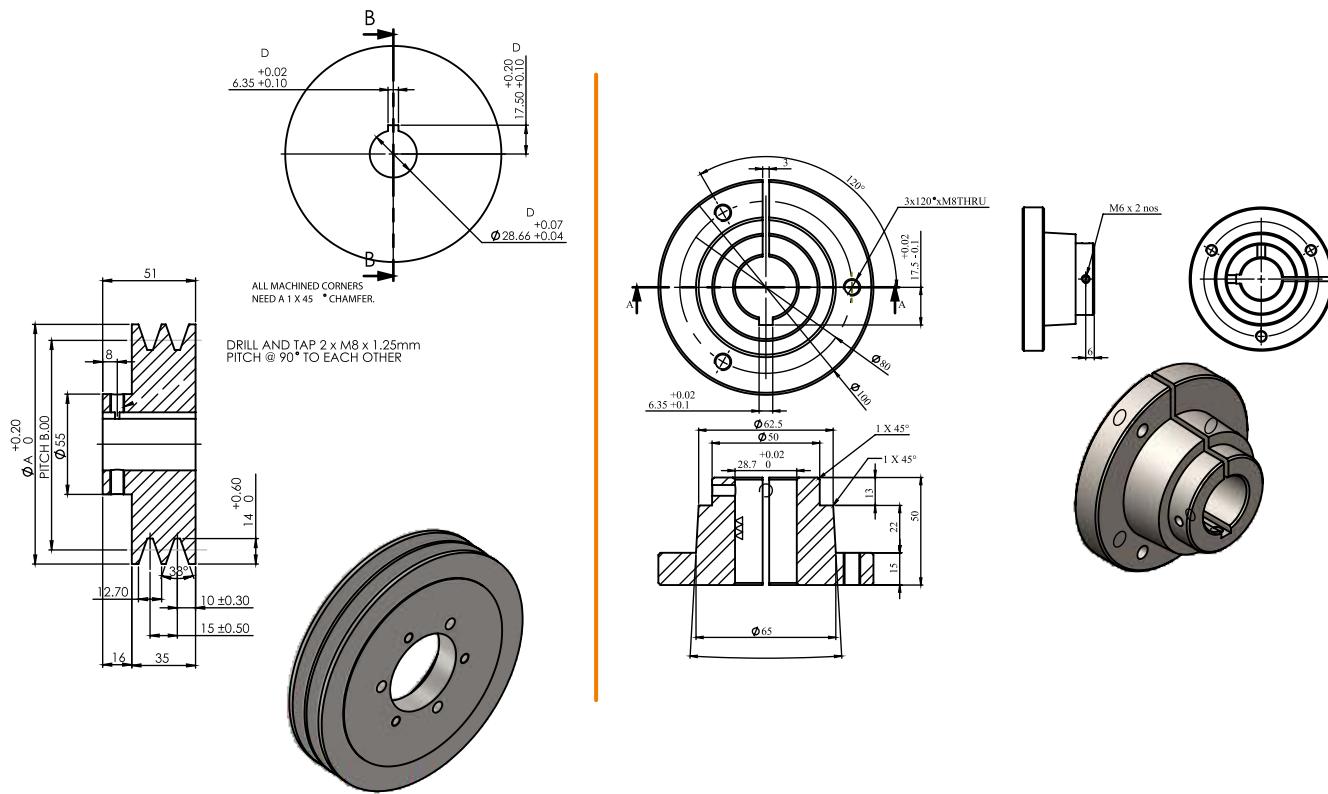
Firstly when the system is primed, the ball will fall to the lowest position and will maintain the vacuum in the tank (even if the vacuum pump leaks air back into the system).

Secondly, if the probes fail to switch off the priming pump, than the ball would float to the top of the valve and seals the outlet preventing any priming water to enter the vacuum priming pump



# Shaft Pulley

## for Diaphragm Pumps



PART NUMBER	PITCH "B"	OD "A"	ENGINE SPEED	
			ACTUAL	NOMINAL
PULLEY-2A 103-30	103.4	109.9	1200	1200
PULLEY-2A 110-30	110.3	116.8	1320	1300
PULLEY-2A 103-30	117.2	123.7	1400	1400
PULLEY-2A 103-30	124.1	130.6	1490	1500
PULLEY-2A 103-30	131.00	137.5	1572	1600
PULLEY-2A 103-30	144.8	151.3	1738	1700
PULLEY-2A 103-30	151.7	158.2	1820	1800
PULLEY-2A 103-30	158.6	165.1	1900	1900
PULLEY-2A 103-30	165.5	172.0	1986	2000

\* SELECT PULLEY SIZE BASED ON ENGINE SPEED.

# Rubber flapper check algo

To enable the full system to operate, the pump needs to be able to prime the water system. To that end it requires the discharge of the pump to be temporarily closed so that a vacuum can be applied to draw the water up to the pump.

To do this a high quality VAG™ spring assisted Rubber Flapper Swing Check Valve is used. The unit is fitted with a corrosion free rubber lined disc.



## TROUBLESHOOTING

Several problems and solutions are presented below to assist you in troubleshooting the algo assembly in an efficient manner.

### • Leakage at Bottom Actuator

Remove line pressure and exercise actuator. If leak persists, replace seals in actuator, see the Backflow Actuator Seal Replacement Procedure on page 4.

### • Leakage at Flanges

Tighten bolts, replace gasket.

### • Algo Leaks when closed

Inspect disc for damage and replace. inspect metal seating surface; clean if necessary.

### • Algo does not open

Check for obstruction in algo; see Disassembly procedure on page 4. Operating pressure may be less than cracking pressure if less than 0.5 psig; review Application with factory.

## DISASSEMBLY

The algo can be disassembled without removing it from the pipeline. Or for convenience, the algo can be removed from the line. All work on the algo should be performed by a skilled mechanic with proper tools and a power hoist for larger algo. Disassembly may be required to inspect the disc for wear or the algo for deposits.

### WARNING:

The line must be drained before removing the cover or pressure may be released causing bodily harm.

## RE-ASSEMBLY

All parts must be cleaned. Gasket surfaces should be cleaned with a stiff wire brush in the direction of the serrations or machine marks. Worn parts, gaskets and seals should be replaced during reassembly.

1. Lay disc (3) over seat with beaded seating surface directed down toward machined seat.
2. Lay cover gasket (5) and cover (2) over bolt holes and disc hinge.
3. Insert lubricated bolts (4) noting that the bolts in the hinge area are longer than the other cover bolts.
4. Cover bolts should be torqued to the following specifications during assembly.

Size	Torque (FT-LBS)
3/8"	25
1/2"	60
5/8"	120
3/4"	200
7/8"	200
1"	300

TABLE #2 Algo Cover Bolt Torques

## PARTS AND SERVICE

Parts and service are available from your local representative or the factory. Make note of the Algo Size, Series No. and Serial No. located on the Algo nameplate and contact:

# Mounting instructions for flywheel couplings

**ALGO**  
PUMPS | MOTORS | DRIVES

## Type AC-T...F2 with taper bush

### How to mount the taper bush

1. The outer taper of the taper bush and the bore with the inner taper of the element hub shall show bright metal and must be free of grease prior to mounting. Preservatives shall be removed completely.
2. Insert the taper bush into the element hub and line up all connecting bores. Make sure that half threaded bores coincide with half plain bores (Fig. 1).
3. Screw in lightly greased or oiled assembly screws. Do not tighten the screws yet (Fig. 2).
4. Slide the element hub with inserted taper bush onto the cleaned shaft with Keyway and put it into the mounting Position L<sub>x</sub> (Fig. 3).
5. Tighten the screws uniformly to the tightening torque M<sub>A2</sub> specified in table 2 using a torque wrench.
6. The screws can be retightened again by tapping against the taper bush with a hammer using an intermediate plate. Repeat, if necessary.

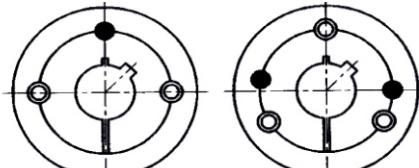


Fig. 1  
No. 2012  
2517  
3030  
No. 3535  
4040  
4535/4545  
5040



Fig. 2

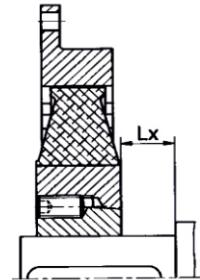


Fig. 3

### Tightening torques for mounting the taper bush

Table 2

Coupling size	AC-T 2,3	AC-T 2,6 AC-T 3	AC-T 4	AC-T 5	AC-T 6	AC-T 6,5 AC-T 7	AC-T 8 AC-T 9
Taper bush No.	2012	2517	3030	3535	4040	4535 4545	2012
B.S.W. screw size *)	7/16 x 22	1/2 x 25	5/8 x 32	1/2 x 38	5/8 x 45	3/4 x 50	7/8 x 57
Tightening torque M <sub>A2</sub> [Nm]	31	49	92	115	172	195	271
Width across flats SW [mm]	6	6	8	10	12	14	14

\*) No. 2012/2517/3030 set screw  
No. 3535/4040/4535/4545/5040 cap screw

### How to remove the element hub with taper bush

1. Loosen and remove all screws. Depending on the taper bush size, screw either 1 or 2 greased screws into the half pulling-off thread(s) of the taper bush (Fig. 4).
2. Tighten the screws uniformly until the taper bush is loose in the element hub.
3. As soon as the taper bush is loose, the element hub can be pulled off the shaft together with the taper bush.

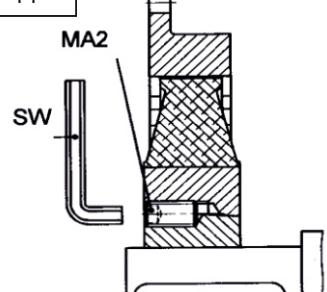
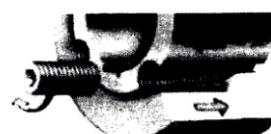


Fig. 4

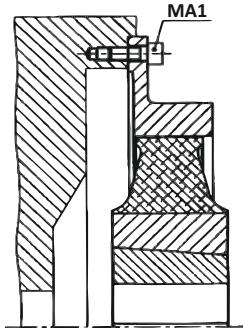


# Tightening torques for flywheel couplings

All bolts and screws must be tightened to the specified torques during assembly in order to ensure a reliable torque transmission. Prior to putting the machinery into operation, all bolts and screws of the coupling must be checked for proper fit.

**Table 1**

Tightening torques for the bolted flange connection to the engine flywheel (grade 8.8)



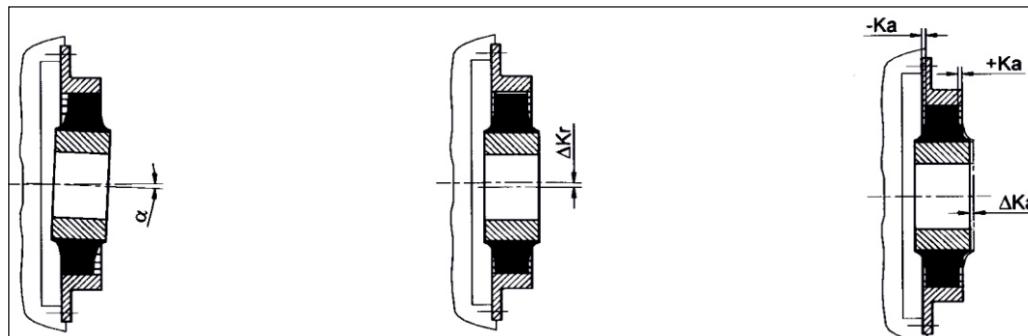
SAE flywheel flange	6 1/2	7 1/2	8	10	11 1/2	14	16	18	21	24
Metric bolts	M8		M10			M12		M16		M20
Tightening torque M <sub>A1</sub> [Nm]	25			50			85		210	
Imperial size bolts	5/16 - 18			5/8 - 16			1/2 - 13		5/8 - 11	
Tightening torque M <sub>A1</sub> [Nm]	24			42			102		203	

Note: The aluminum flanges of the coupling sizes AC 2,3 - AC 10D have to be mounted only with bolts of grade 8.8. Alternative bolts of grade 10.9 with suitable washer and the corresponding tightening torque can be used (if needed please reconsult us).

## Permissible shaft displacement

The permissibility of major shaft displacements depends on a number of factors such as coupling size, shore hardness of the rubber element, operating speed and torque load of the coupling. The following reference values refer to an operating speed of  $\approx 1500$  rpm.

Precise alignment of the shaft orientation prevents premature wear of rubber element.



ARCUSAFLEX coupling size	2,3	2,6	3	4	5	6	6,5	7	8 8D	9 9D	10 10D	11 11D	11,6 12 12D
Permissible radial displacement $\Delta Kr$ [mm]	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.5	1.5	1.5	1.5
Permissible angular displacement $\alpha$ [°]	0.5°	0.5°	0.5°	0.5°	0.5°	0.4°	0.4°	0.4°	0.4°	0.3°	0.3°	0.3°	0.3°
Permissible axial displacement $\Delta Ka$ [mm]*)	±3	±4	±7	±6	±5	±7	±4	±10	±7	±4	±3	±4	±3

Larger displacements of short duration, as they may occur when starting and stopping the diesel engine, are permissible. The maximum displacements must not occur simultaneous.

\*) At types AC...F2K and AC...TK the axial fitting length L<sub>f</sub> of the coupling should always offer a plus tolerance within the possible tolerance range in order to reach max. axial movability of the dismantled coupling element.

## Safety precautions

It is the customer's and user's responsibility to provide proper guards over rotating machinery and to observe the national and international safety rules and laws.

Check all bolted connections for proper fit preferably after the test run.

# ESD Series

## Non Clog Self Priming Centrifugal Pumps



### Specification

Power	1 to 125 HP
Speed	650 to 2900rpm
Version	3Ph-380V, 50Hz
Duty	S1 ( Continuous )
Protection	IP68
Head Range	4 to 62m
Flow Range	41 to 21248lpm

### Materials of Construction

Pump Casing	Cast Iron
Impeller	Ductile Iron
Shaft	40 Cr Alloy Steel
Shaft sleeve	40 Cr Alloy Steel
Seal	Gland Packing / Mechanical seal
Replaceable wear plate	Carbon Steel
Removable cover plate	Cast Iron
Seal plate	Cast Iron

### Applications

Industrial & Sewage applications  
Municipal Sewage Water  
Construction, Mining and Industrial  
Dewatering  
Portable Dewatering

### Operating Conditions

Max. Liquid Temp.	40°C
Suction lift	7.6 mtr
Solid Handling Capacity	76.2mm

### Open Double Channel Impeller

Impeller Type	Open Double Channel Impeller					
Model	ESD-50D	ESD-80D	ESD-100D	ESD-150D	ESD-200D	ESD-250D
Pump Size	2"x 2"	3"x 3"	4"x 4"	6"x 6"	8"x 8"	10"x 10"
Head Range (m)	4-36	2-35	2-36	2-33	4-34	3-39
Flow Range (lpm)	120-780	41-1760	250-2705	200-5478	664-9960	913-12948
Speed (rpm)	1150-2900	650 - 2150	650-1950	650-1550	650-1350	650-1450
Power Range (HP)	1-10	1-20	1-30	2-40	7.5 - 75	10-100
Solid Passage (mm)	44.45	63.5	76.2	76.2	76.2	76.2
Max. Suction Lift (m)	7.6	7.6	7.6	7.6	7	6.7

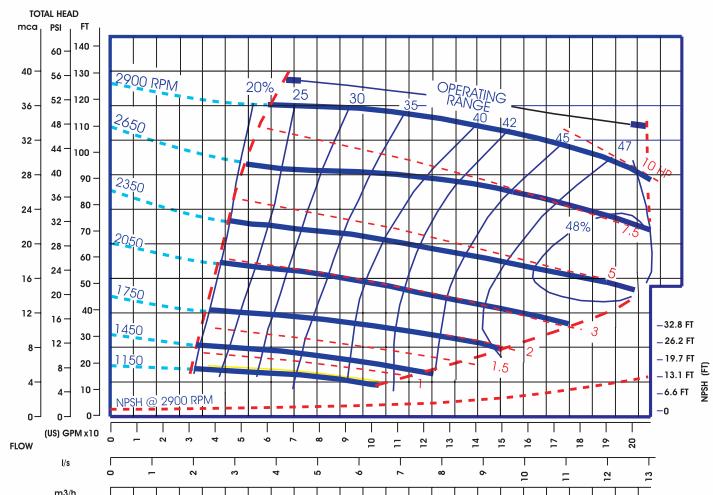
# ESD Series

## Performance Curve

**ALGO**  
PUMPS | MOTORS | DRIVES

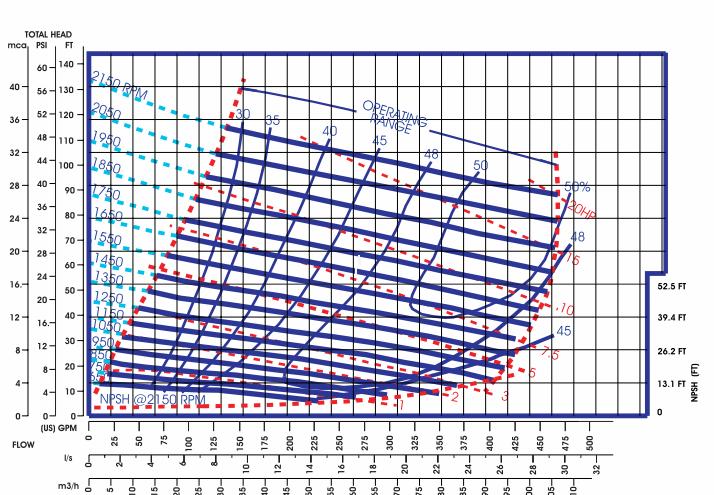
**ESD-50D**

PERFORMANCE CURVE 2"X2"



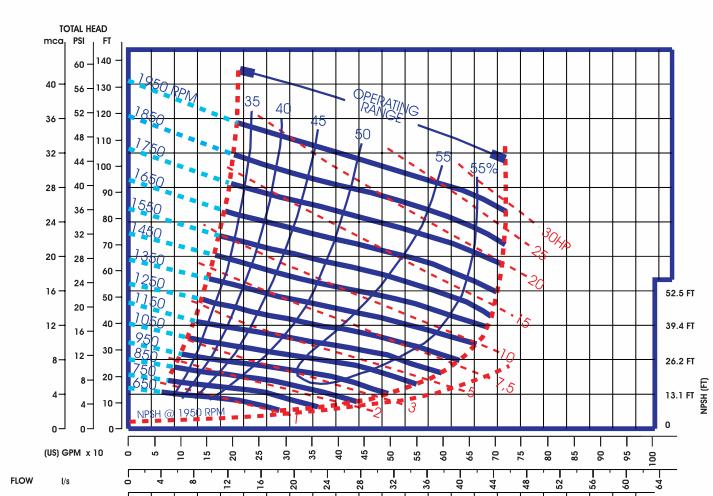
**ESD-80D**

PERFORMANCE CURVE 3"X3"



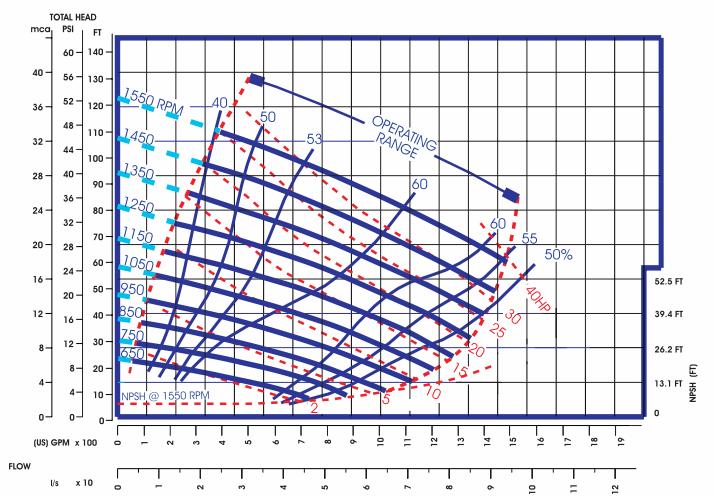
**ESD-100D**

PERFORMANCE CURVE 4"X4"



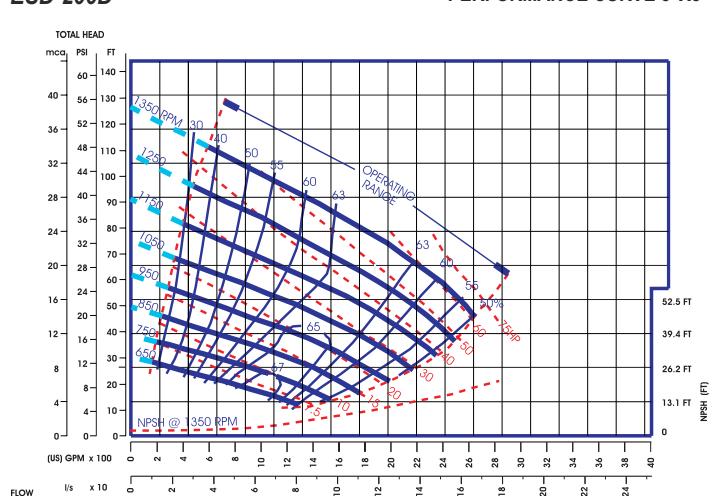
**ESD-150D**

PERFORMANCE CURVE 6"X6"



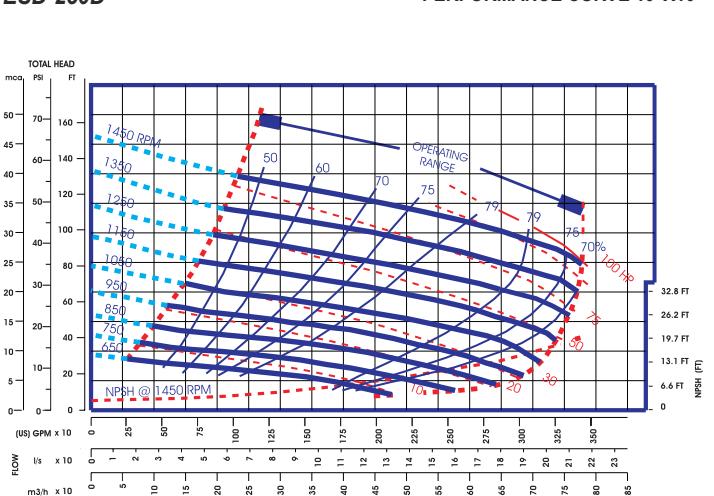
**ESD-200D**

PERFORMANCE CURVE 8"X8"



**ESD-250D**

PERFORMANCE CURVE 10"X10"



# Hercula Series

## High Head Submersible De-Watering Pumps



### Additional Protection

1. Temperature Sensor
2. Moisture Sensor - Mechanical Seal
3. 4 Bearing System

**75kW - 90kW - 50 / 60Hz**

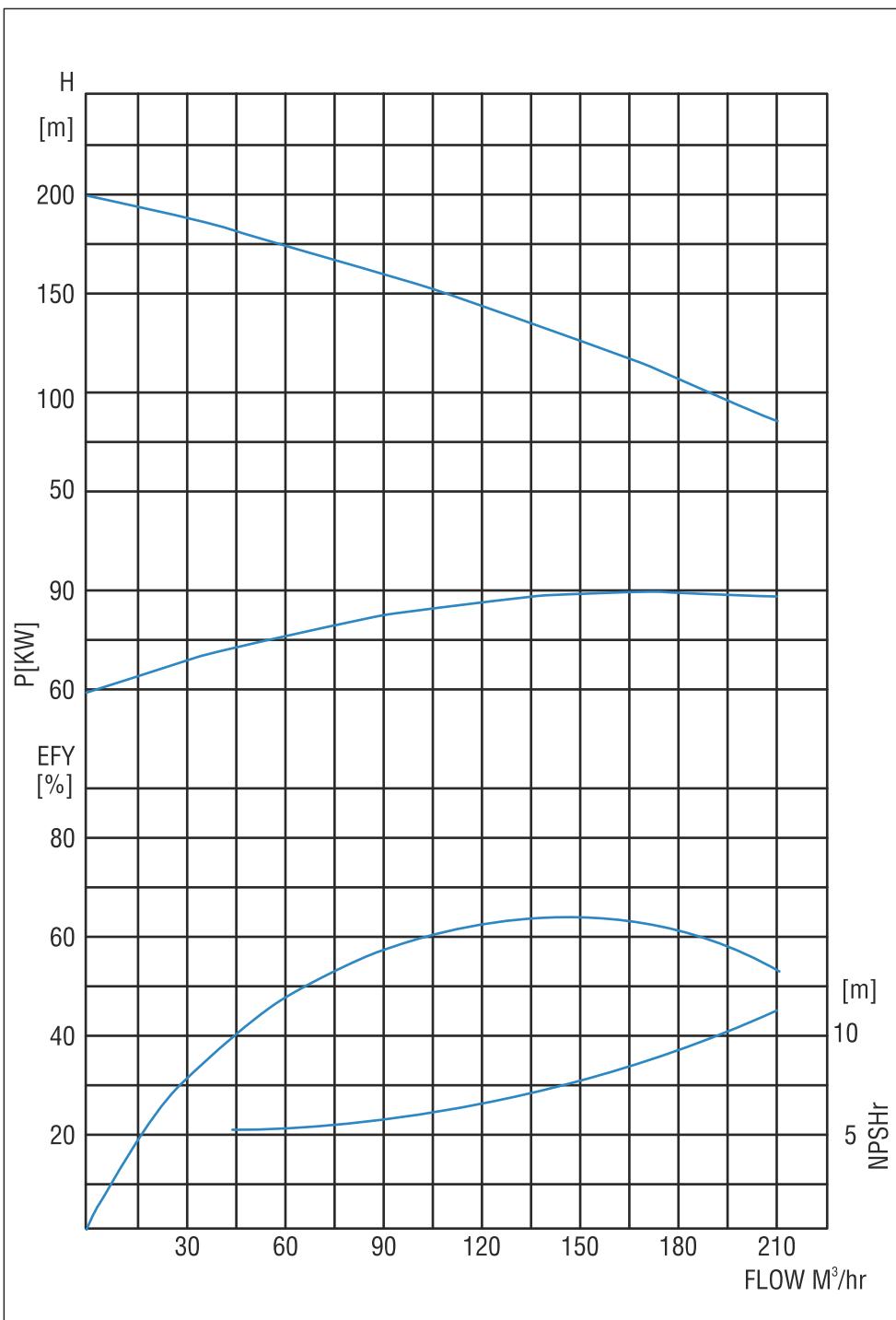
### Control Panel

1. ABB VFD based system
2. Temperature relay for auto cut off
3. Warrick moisture sensor cum relay

### Material of Construction

1. All wet parts SG 500/7
2. Impeller 316L
3. Dual class winding
4. HO7RNF
5. 6 wire data cable
6. Twin Mechanical Seal (Tungsten Carbide)
7. Stainless Steel Mesh
8. Cable length 10 mtr (35mm x 4) for DOL  
Twin cable optional for star delta





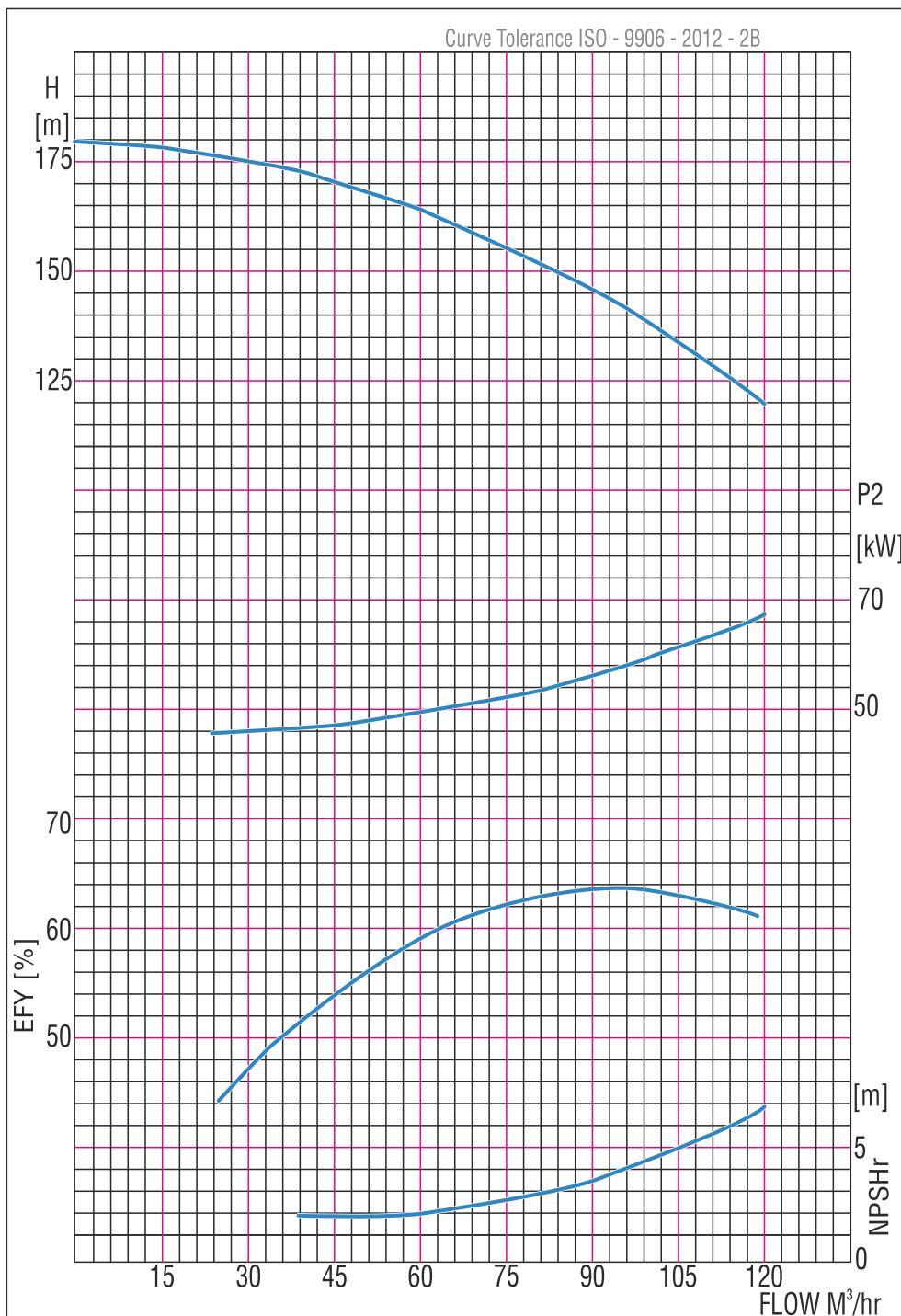
## HERCULA3906

1. Max head 200 mtr
2. Max flow 210 M<sup>3</sup>/hr
3. Duty Point head 133 mtr
4. Duty Point flow 144 M<sup>3</sup>/hr

Pump Type:	HERCULA	Motor Type:	Water Cooled
Model No:	P3906	Maximum Depth	25 Mtr.
Number of Poles:	2	Total Head (m):	198
No. of Stages:	2	Discharge (m <sup>3</sup> /hr):	210
Motor Rating (kW/HP) P2:	90kW	Ph Value	4
Voltage (V):	415	Delivery Size (mm):	6"
Phase:	3	Outside Temp (deg):	40°C
Maximum Current (A)	172A	Water Temp (deg):	40°C
Rated Speed (rpm):	2950	Power Factor	0.911
Frequency (Hz):	50Hz	Efficiency	87%
		Maximum Weight	1075 Kg

Curve Tolerance ISO - 9906 - 2012 - 2B

# Hercula Series



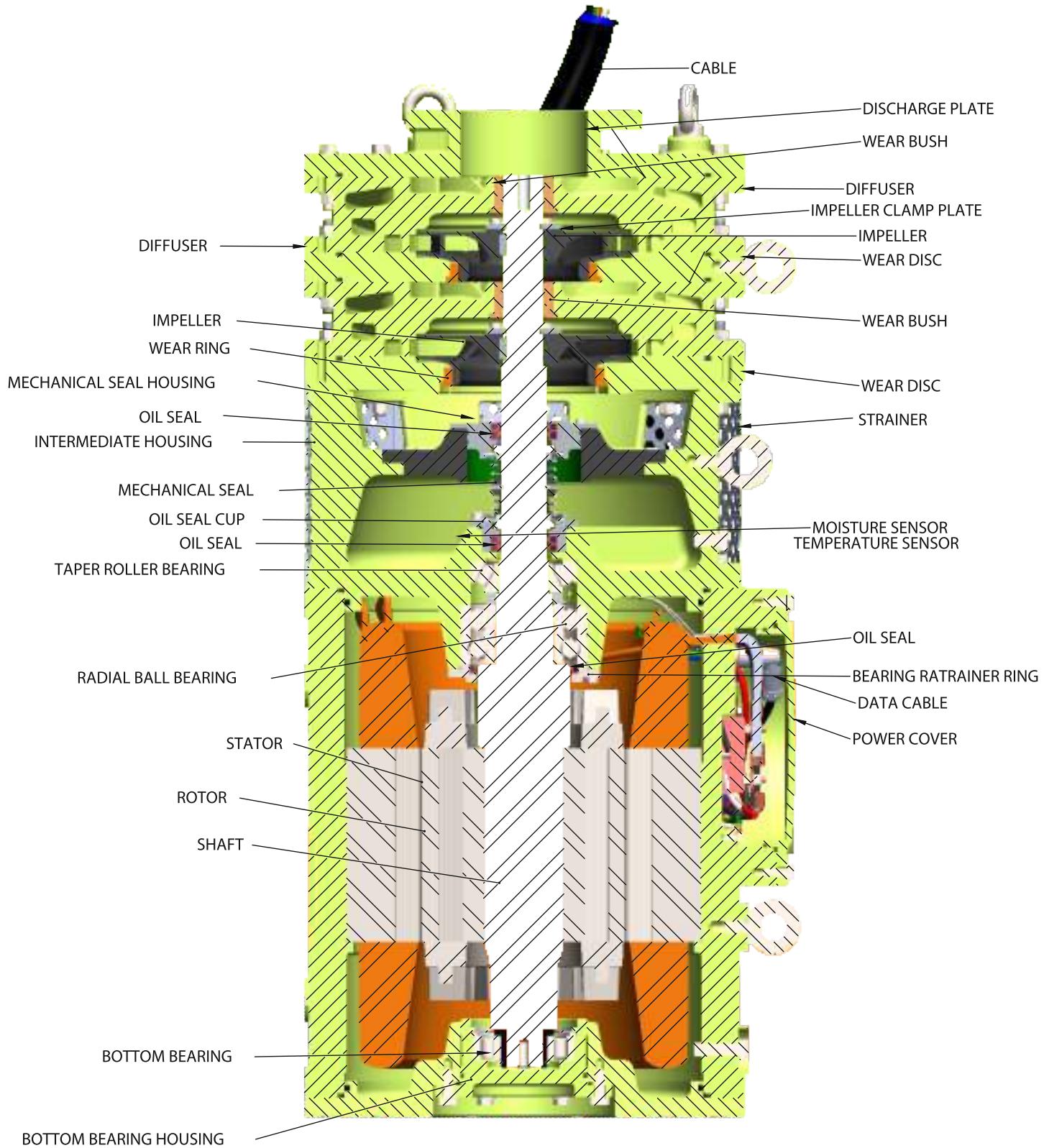
## HERCULA 3754

1. Max head 175 mtr
2. Max flow 120 M<sup>3</sup>/hr
3. Duty Point head 150 mtr
4. Duty Point flow 80 M<sup>3</sup>/hr

Pump Type:	HERCULA	Motor Type:	Water Cooled
Model No:	P3754	Maximum Depth	25 Mtr.
Number of Poles:	2	Total Head (m):	175
No. of Stages:	2	Discharge (m3/hr):	120
Motor Rating (kW/HP) P2:	75 kW	Ph Value	4
Voltage (V):	415	Delivery Size (mm):	4
Phase:	3	Outside Temp (deg):	40oC
Maximum Current (A)	122AMPS	Water Temp (deg):	40oC
Rated Speed (rpm):	2950	Power Factor	0.911
Frequency (Hz):	50Hz	Efficiency	87%
		Maximum Weight	975Kg

Curve Tolerance ISO - 9906 - 2012 - 2B

## HERCULA



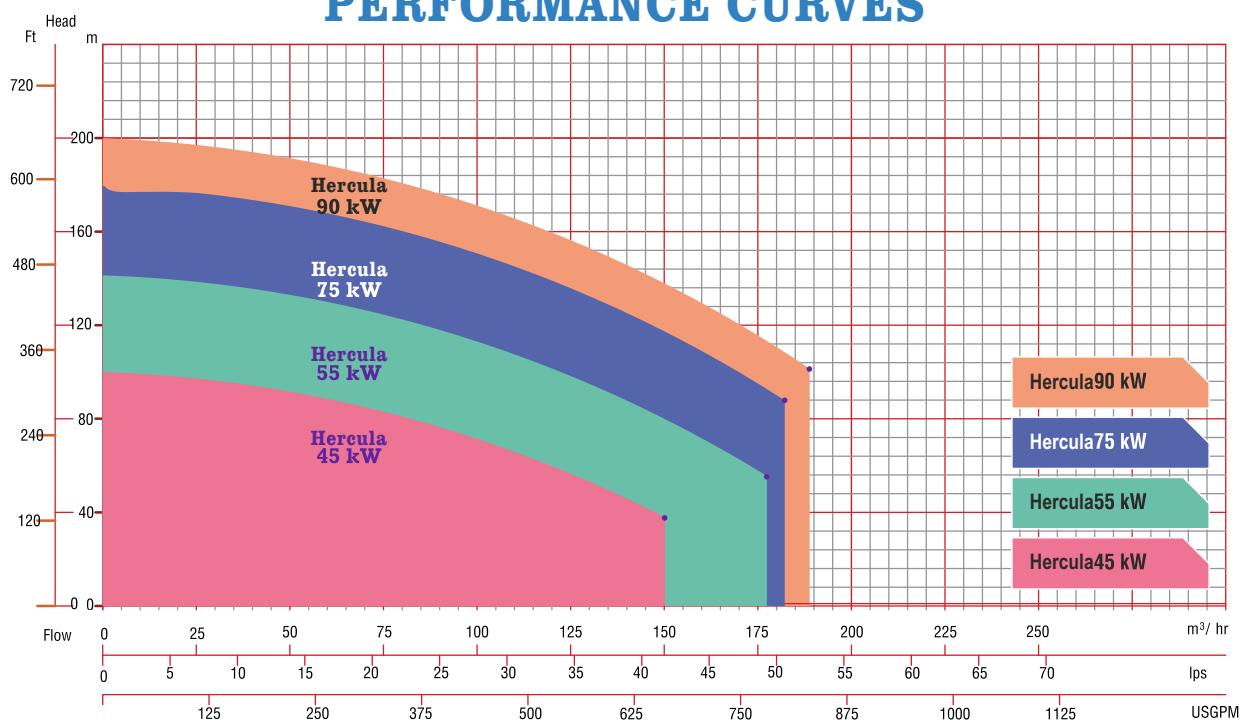
# Hercula Series

**ALGO**  
PUMPS | MOTORS | DRIVES

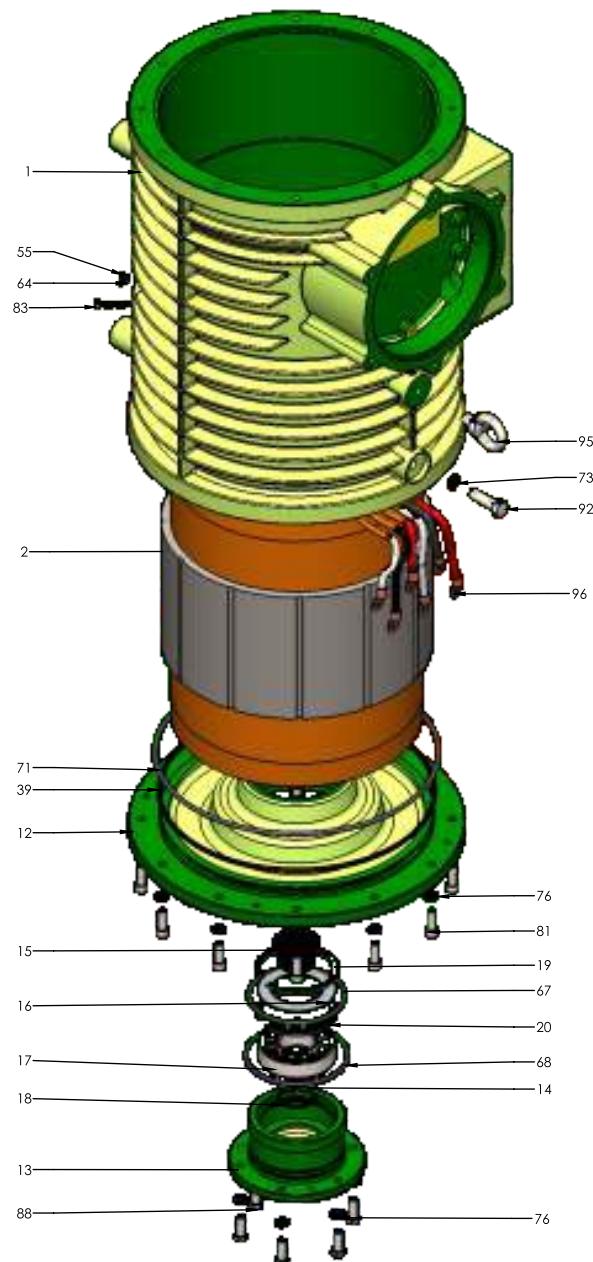
380v/400v/415v/440v/500v/525v/550v/1000v



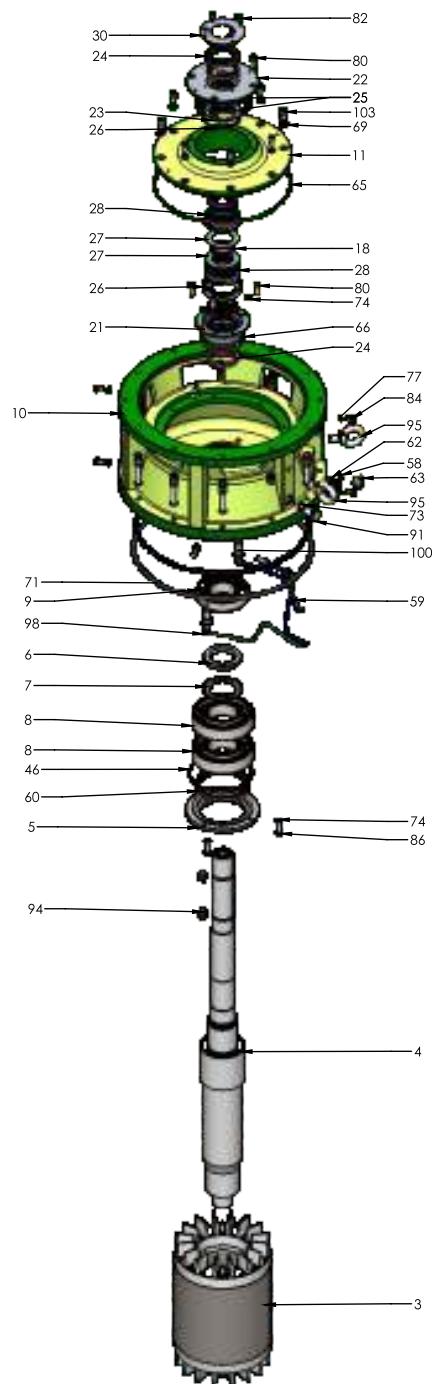
## PERFORMANCE CURVES



## EXPLODED VIEW ELECTRICAL MOTOR SECTION

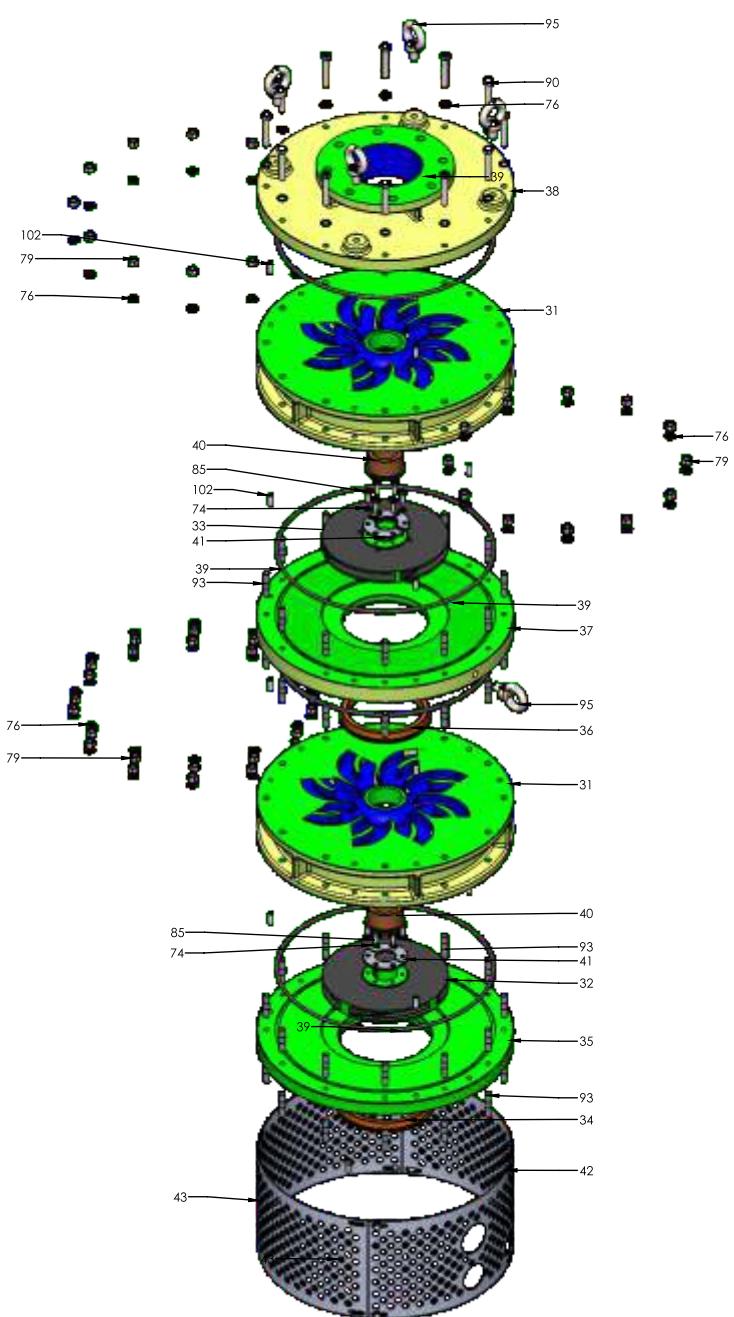


## EXPLODED VIEW ELECTRICAL MOTOR SECTION

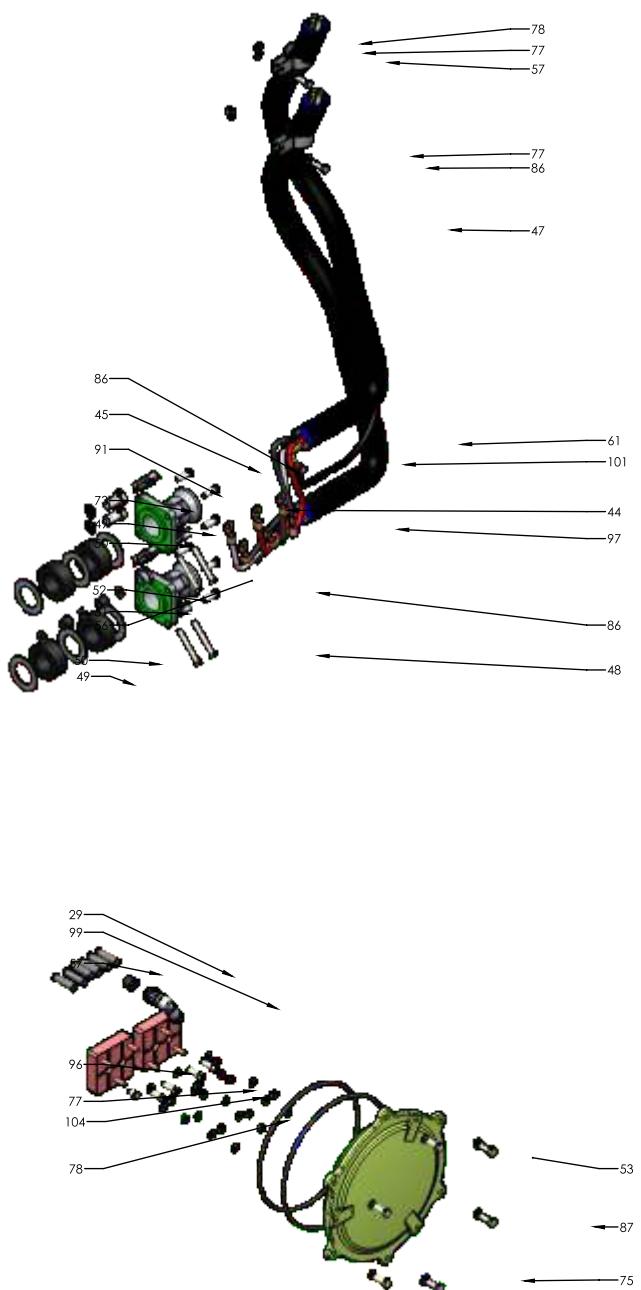


380v/400v/415v/440v/500v/525v/550v/1000v

## HYDRAULIC SECTION

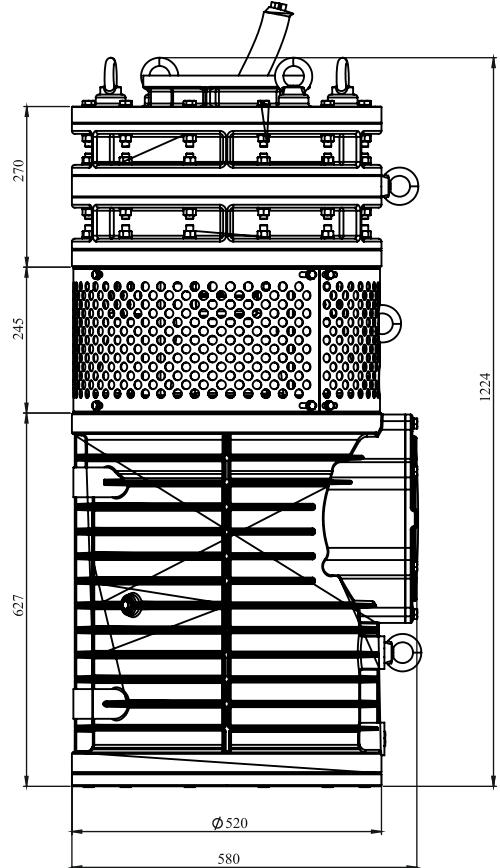
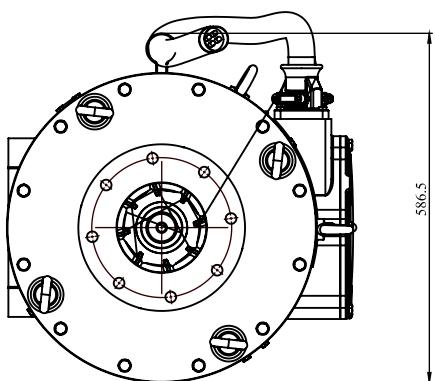


## CABLE ASSEMBLY

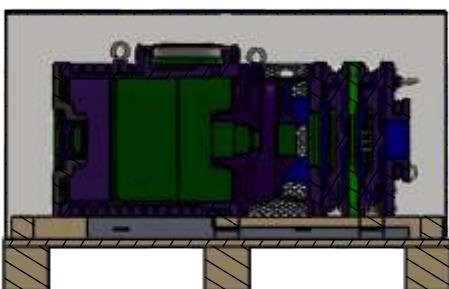
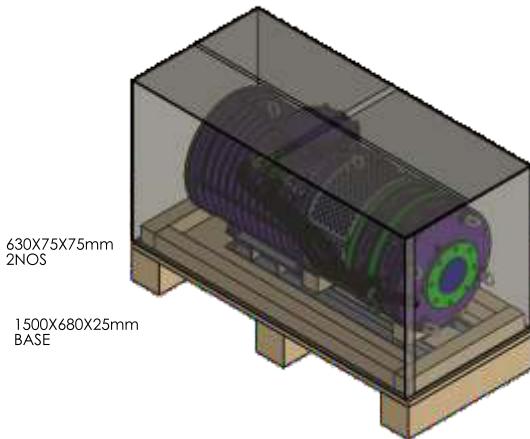
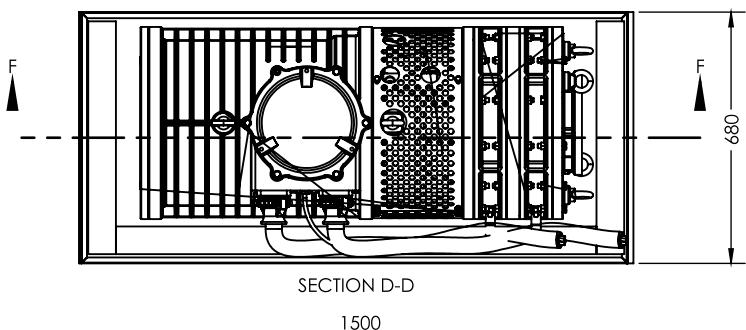


# Hercula Series

## DIMENSIONS



## PACKING INFORMATION



## BILL OF MATERIALS

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1	RB90001-M	MOTOR HOUSING	SG1500/7	1
2	RB90002	Stator 420x240x230mm	ASTM A36	1
3	RB90003	Rotor 240x95x230mm	ASTM A36	1
4	RB90004-T	90kW Diffuser SHAFT	SS 431	1
5	RB90005	BEARING RETRAINER RING	SG1500/7	1
6	KM14	LOCK NUT	MILD STEEL	1
7	NB14	LOCK WASHER	MILD STEEL	1
8	A314	RADIAL BALL BEARING	SKF/FAG/NTN	2
9	7FC60	TAPPER ROLLER BEARING	SKF/FAG/NTN	1
10	RB90006-M	INTERMEDIATE HOUSING	SG1500/7	1
11	RB90015-M	OIL PLATE	SG1500/7	1
12	RB90007-M	BACK PLATE FOR DIFFUSER	SG1500/7	1
13	RB90008-M	BEARING HOUSING FOR BACK PLATE	SG1500/7	1
14	RB90009	WASHER 55*45*2mm	SS 304	1
15	RB90010	BEARING BUSH	SKD11	1
16	RB90011	BEARING SPACER SHIM D81*D124*2mm	SS 304	1
17	NU 311 EC	RADIAL CYLINDRICAL ROLLER BEARING	SKF/FAG/NTN	1
18	A55*2	EXTERNAL CIRCLIP ( 55*2mm)	SPRING STEEL	2
19	J125	INTERNAL CIRCLIP - ( 125 * 4mm)	SPRING STEEL	1
20	J120	INTERNAL CIRCLIP ( 120*4mm)	SPRING STEEL	1
21	RB90012-I	INTERMEDIATE OIL AND MECHANICAL SEAL HOUSING	SS 304	1
22	RB90013-M	TOP OIL PLATE AND MECHANICAL SEAL HOUSING	SS 304	1
23	SLD937020	MECHANICAL SEAL WASHER RING D55 ( Ø58*Ø90*2mm)	SS 304	2
24	P00607	OIL SEAL 55x80x10mm	VITON	4
25	BS160	O-RING ( 133.02*2.62mm)	NBR	2
26	J90	INTERNAL CIRCLIP ( 90*3)	SPRING STEEL	2
27	SHM 55	MECHANICAL SEAL WASHER ( Ø55.5*Ø81*2mm )	SS 304	2
28	55mm Bellow	DIA.55MM Bellow TYPE MECHANICAL SEAL	EPDM	2
29	RB90047	WINDING WIRE RUBBER BUSH	NBR	1
30	RB90016	SLINGER PLATE	SS 304	1
31	RB90017-M	DIFFUSER CASING	SG1500/7	2
32	RB90018-M	1ST STAGE IMPELLER FOR DIFFUSER PUMP	CFMB	1
33	RB90019-M	2ND STAGE IMPELLER FOR DIFFUSER PUMP	CFMB	1
34	RB90020	WEAR RING STAGE 1	SS 316L	1
35	RB90021-M	SUCTION COVER PLATE	SG1500/7	1
36	RB90022	WEAR RING STAGE 2	SS 316L	1
37	RB90023-M	DIFFUSER COVER	SG1500/7	1
38	RB90024-M	DELIVERY COVER	SG1500/7	1
39	BS443	O-RING ( 430.66*6.99mm)	NBR	6
40	RB90026	SHAFT WEAR BUSH	BRONZE	2
41	RB90027	IMPELLER CLAMP PLATE	SS 304	4
42	RB90028-1	STRAINER	SS304	1
43	RB90028-2	STRAINER	SS304	1
44	RB90029-M	POWER CORD GLAND	SS 304	2
45	RB90030-M	CABLE CLAMP	SS 304	4
46	BS258	O-RING ( 152.07*2.62)	NBR	1
47	50mm sq.	Cable 3x50mm sq. 3E+1p 145A (44mm OD)	HO7RN-F	2
48	HHB8 x 70 x 22	HEX HEAD BOLT M8*70*22mm	SS316	4
49	RB90033	FLAT WASHER 45 X 69.4 X 2	SS 304	6
50	RB90034	RUBBER BUSH 42 X 70 X 26	NBR	4
51	RB90035	WASHER 20X9.6X2	SS 304	3
52	RB90036	RUBBER 20.5X9.5X16	NBR	2
53	RB90038-M	POWER CHAMBER COVER	SG1500/7	1
54	RB90040	CABLE CLIP	SS304	2
55	SLD937023	STATOR LOCK BOLT RING	SS 304	1
56	RB90043	DATA CABLE NUT	SS 304	1
57	DATA CABLE RUBBER	RUBBER BUSH	NBR	6
58	M24 DW	M24 DOWTY WAHER	SS316	1
59	PT100	temperature sensor	CABLE	1
60	P13845	110x130x10mm Oil Seal	VITON	1
61	7x1.5mm sq. DC	7*1.5MM Sq. DATA CABLE	HO7RN-F	1
62	NP114" BSP	1/4 bsp GREASE NOB	BRASS	1
63	RB90031	GREASE COVER CAP M24*12mm	SS 304	1

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
64	BS109	O-RING ( 7.59*2.62mm)	NBR	1
65	BS279	O-RING ( 329.79*3.53mm)	NBR	1
66	BS242	O-RING ( 101.19*3.53mm)	NBR	1
67	BS358	O-RING ( 142.24*5.33mm)	NBR	1
68	BS361	O-RING ( 151.77*5.33mm)	NBR	1
69	FW-10	FLAT WASHER M10	SS316	8
70	BS378	O-RING ( 266.07*5.33mm)	NBR	1
71	BS462	O-RING ( 417.96*6.99mm)	NBR	2
72	BS377	O-RING ( 253.37*5.33mm)	NBR	1
73	M16 DW	M16 DOWTY WASHER	SS316	4
74	SW-8	SPRING WASHER M8	SS316	20
75	SW-10	SPRING WASHER M10	SS316	6
76	SW-12	SPRING WASHER M12	SS316	102
77	FW8	FLAT WASHER M8	SS316	29
78	N8	NUT M8	SS316	14
79	N12	NUT M12	SS316	60
80	SHB8*25	SOCKET HEAD BOLT M8*25mm	SS316	8
81	SHB12 x 35	SOCKET HEAD BOLT M12*35mm	SS316	12
82	HHB8 x12	HEX HEAD BOLT M6*12mm	SS316	5
83	HHB8*45	HEX HEAD BOLT M8*45mm	SS316	1
84	HHB8*16	HEX HEAD BOLT M8*16mm	SS316	14
85	HHB8*25	HEX HEAD BOLT M8*25mm	SS316	12
86	HHB8*30	HEX HEAD BOLT M8*30mm	SS316	14
87	HHB10 x 30	HEX HEAD BOLT M10*30mm	SS316	6
88	HHB12 x 35	HEX HEAD BOLT M12*35mm	SS316	6
89	HHB12 x 55	HEX HEAD BOLT M12*55mm	SS316	12
90	HHB12 x 70	HEX HEAD BOLT M12*70mm	SS316	12
91	HHB16 x 30	HEX HEAD BOLT M16*30mm	SS316	3
92	HHB16 x 55	HEX HEAD BOLT M16*55mm	SS316	1
93	ST12X55	STUD SCREW M12X55mm	SS316	48
94	KS14X9X30	IMPELLER KEY 14*9*30mm	SS316	2
95	EB16	EYE BOLT M16	SS316	8
96	HERCULA 90T	TERMINAL CONNECTOR 2114	TERMINAL BLOCK	2
97	Sq.75 mm LUG	Sq.75mm lug M10 hole	COPPER	12
98	ZCTS203	1 sq mm CABLE LUG	COPPER	2
99	7300500000	DATA CABLE CONNECTOR	DATA CABLE	1
100	3H1B00203	WARRICK MOISTURE SENSOR	SENSOR	2
101	25 sq mm. Lug with wire	25sq mm E10	COPPER	2
102	DOWEL PIN	DOWEL PIN 10X25mm	SS316	12
103	SHB10*16	SOCKET HEAD BOLT M10*16mm	SS316	8
104	SHB8*30	SOCKET HEAD BOLT M8*30mm	SS316	4

# BloRa Series

## Slow Speed Non Clog Sewage Pumpset

### Specification

Power	: 2.2 to 18.5 kW / 3 to 25 HP
Speed	: 1450 rpm
Version	: 3PH, 380 - 415V - 50Hz
Insulation Class	: F/H Class Winding
Protection Class	: IP 68
Duty Rating	: S1 / S3
Head	: UP to 30m
Flow	: 280m³/h / 4680 lpm (max)
Soft Solid Handling Capacity	: UP to 80 mm
Sealing	: Mechanical seal carbon - ceramic



### Applications

Sewage  
 Handling treated effluents with Slurries and Solids  
 Transfer of suspended solid  
 Muddy water  
 Pumping of Sludge  
 Pumping of waste, strom & raw water

### Area of Application

Steel, Cement, Textile, Pharma, Chemical & Pesticide Industries  
 ETP, STP & Power Plants  
 Water Treatment Plant  
 Construction  
 Biogas Plant  
 Commercial buildings  
 Municipal waste water systems

### Special features

- ◆ Double mechanical seal.
- ◆ Inbuilt thermal protection.
- ◆ Moisture protection ( optional on request )
- ◆ Cutter / Agitator ( optional on request )

### Materials of Construction

- ◆ Pump Casing : Cast Iron.
- ◆ Impeller : Cast Iron.
- ◆ Motor body : SS / Cast Iron.
- ◆ Shaft : Stainless steel.
- ◆ Cable : PVC Double sheathed

\*Optional MOC like SS 304 / SS 316 / Alloy 20

Duplex also available on request.

### Performance Table

Model	kW	HP	DEL. SIZE (mm)	SOLID PASSAGE (mm)	Discharge in lpm	HEAD IN METER										SHUT-OFF HEAD	
						4	7	9	12	15	17	19	21	23	25	27	
BloRa - 30FT	2.2	3	80	35		1100	850	550	170	-	-	-	-	-	-	-	13
BloRa - 50GT	3.7	5	100	40		2050	1560	1200	680	200	-	-	-	-	-	-	16
BloRa - 75GT	5.5	7.5	100	50		2300	1870	1585	1100	500	-	-	-	-	-	-	17
BloRa - 100GT	7.5	10	100	60		3100	2830	2500	1950	1400	840	415	-	-	-	-	20
BloRa - 150GT	11	15	100	70		3500	3200	3000	2770	2050	1600	1000	450	-	-	-	22
BloRa - 200GT	15	20	100	80		-	4000	3750	3300	2600	2170	1700	1150	830	415	-	26
BloRa - 250HT	18.5	25	125	80		-	4680	4300	3900	3335	2700	2370	1850	1500	1200	750	29

In view of continuous improvements in our design and process, The information, dimensions and specifications given herein are subject to change without notice.

# Blora - D

## Submersible dewatering Pumps

### Specification

Power	: 0.75 to 26 kW / 1 to 35 HP
Speed	: 2800 rpm
Version	: 3PH, 380 - 415V - 50Hz
Insulation Class	: F/H Class Winding
Protection Class	: IP 68
Duty Rating	: S1 / S3
Head	: UP to 60m
Flow	: 396m³/h / 6600 lpm (max)
Soft Solid Handling Capacity	: UP to 100 mm
Mechanical seal	: Carbon - ceramic / sic - sic



### Applications

- ◆ To remove excess groundwater or surface water from mines, pits, excavations and tunnels.
- ◆ To transfer suspended solids.
- ◆ To drain flooded streets, structures, and tunnels.
- ◆ Irrigation.

### Area of Application

Industries  
Sites  
Mining Dewatering

### Special features

- ◆ Double mechanical seal.
- ◆ Inbuilt thermal protection.
- ◆ Moisture protection ( optional on request )

### Materials of Construction

- ◆ Pump Casing : Cast Iron.
- ◆ Impeller : Cast Iron.
- ◆ Motor body : SS / Cast Iron.
- ◆ Shaft : Stainless steel.
- ◆ Cable : PVC Double sheathed

\*Optional MOC like SS 304 / SS 316 / Alloy 20

Duplex also available on request.

### Performance Table

Model	kW	HP	DEL. SIZE (mm)	SOLID PASSAGE (mm)		HEAD IN METER												SHUT-OFF HEAD
						4	6	8	10	12	14	16	18	20	22	24		
BloRaD - 12/C10	0.75	1	40	3	Discharge in lpm	250	200	180	120	-	-	-	-	-	-	-	12	
BloRaD - 16/D15	1.1	1.5	50	5		350	310	270	220	110	60	-	-	-	-	-	15	
BloRaD - 20/D20	1.5	2	50	5		410	380	330	290	200	110	30	-	-	-	-	17	
BloRaD - 30/F30	2.2	3	80	8		820	770	710	600	540	450	300	150	30	-	-	21	
BloRaD - 48/F50	3.7	5	80	8		1050	980	900	800	680	550	475	320	250	120	-	25	

Model	kW	HP	DEL. SIZE (mm)	SOLID PASSAGE (mm)		HEAD IN METER										SHUT-OFF HEAD	
						4	6	10	14	18	20	24	28	32	36	40	
BloRaD - 54/G50	3.7	5	100	12	Discharge in lpm	1200	1110	900	660	400	320	70	-	-	-	-	25
BloRaD - 60/G75	5.5	7.5	100	12		1500	1320	1020	840	620	510	260	-	-	-	-	27
BloRaD - 78/G100	7.5	10	100	12		1850	1700	1520	1300	900	770	460	90	-	-	-	30
BloRaD - 130/I150	11	15	150	12		3700	3350	2600	2200	1700	1550	910	290	30	-	-	33
BloRaD - 150/I200	15	20	150	12		4550	3990	3000	2620	2050	1800	1250	580	100	-	-	34
BloRaD - 200/I250	18.5	25	150	12		5900	5450	4650	3300	2800	2600	2100	1300	700	220	-	38
BloRaD - 250/I350	26	35	150	12		6600	6100	5250	4310	3780	3200	2600	1890	1350	890	220	42

Model	kW	HP	DEL. SIZE (mm)	SOLID PASSAGE (mm)		HEAD IN METER										SHUT-OFF HEAD	
						4	10	20	30	40	50	60	65	70	80	90	100
BloRaD - 48/G150	11	15	100	12		1200	1050	900	750	600	400	200	0	-	-	-	-

# Sendra - H Series

## High Speed Non Clog Sewage Pumpset

### Specification

Power	: 0.37 to 18.5 kW / 0.5 to 25 HP
Speed	: 2800 rpm
Version	: 3PH, 380 - 415V - 50Hz/1Ph-230V-50Hz
Insulation Class	: F/H Class Winding
Protection Class	: IP 48
Duty Rating	: S1 / S3
Head	: UP to 48m
Flow	: 180m³/h / 3000 lpm (max)
Soft Solid Handling Capacity	: UP to 60 mm
Mechanical seal	: Carbon - ceramic / sic - sic



### Applications

**Sewage**  
 Handling treated effluents with Slurries and Solids  
**Storm water**  
**Muddy water**  
**Pumping of Sludge**

### Area of Application

**Industries**  
**ETP, STP & Power Plants**  
**Water Treatment Plant**  
**Construction**  
**Biogas Plant**  
**Commercial buildings**

### Special features

- ◆ Double mechanical seal.
- ◆ Inbuilt thermal protection.
- ◆ Moisture protection ( optional on request )
- ◆ Cutter / Agitator ( optional on request )

### Materials of Construction

- ◆ Pump Casing : Cast Iron.
- ◆ Impeller : Cast Iron.
- ◆ Motor body : SS / Cast Iron.
- ◆ Shaft : Stainless steel.
- ◆ Cable : PVC Double sheathed

\*Optional MOC like SS 304 / SS 316 / Alloy 20

Duplex also available on request.

### Performance Table

Model	kW	HP	DEL. SIZE (mm)	SOLID PASSAGE (mm)	Discharge in lpm	HEAD IN METER												SHUT-OFF HEAD	
						4	6	8	10	12	14	16	18	20	22	24	26	28	
SVH - 6/C03	0.37	0.5	40	10		210	150	75	-	-	-	-	-	-	-	-	-	-	10
SVH - 10C07	0.75	1	40	10		250	200	150	100	-	-	-	-	-	-	-	-	-	12
SVH - 12/D11	1.1	1.5	50	12		400	350	250	200	100	-	-	-	-	-	-	-	-	14
SVH - 15/D15	1.5	2	50	15		450	400	350	300	250	150	-	-	-	-	-	-	-	16
SVH - 24/F22	2.2	3	80	20		850	650	616	580	500	480	400	300	150	-	-	-	-	22
SVH - 30/F37	3.7	5	80	25		1070	1010	900	810	720	630	510	405	310	190	100	-	-	25
SVH - 36/G37	3.7	5	100	30		1300	1250	1100	1000	900	750	650	500	400	200	100	-	-	25
SVH-54/G55	5.5	7.5	100	30		1775	1700	1600	1500	1300	1100	900	700	600	500	400	200	-	28
SVH-80/G75	7.5	10	100	35		2095	2020	1900	1800	1700	1600	1350	1150	1050	850	600	400	300	30

Model	kW	HP	DEL. SIZE (mm)	SOLID PASSAGE (mm)	Discharge in lpm	HEAD IN METER												SHUT-OFF HEAD	
						6	12	18	21	24	30	33	36	38	42	45	48	50	
SVH - 17/D22	2.2	3	50	20		500	420	280	200	150	-	-	-	-	-	-	-	-	28
SVH - 30D/37	3.7	5	50	30		800	670	590	500	330	100	50	-	-	-	-	-	-	35
SVH - 30/D55	5.5	7.5	50	30		-	840	700	580	425	250	170	90	50	-	-	-	-	40
SVH - 36/D75	7.5	10	50	30		-	1000	800	690	600	500	450	350	290	170	90	-	-	47
SVH - 50/D110	11	15	50	30		-	-	-	1050	930	850	750	600	450	370	250	170	100	53
SVH - 66/G110	11	15	100	35		2000	1800	1500	1250	1100	850	700	400	150	-	-	-	-	40
SVH - 99/G150	15	20	100	50		2600	2300	2100	1850	1670	1250	1000	720	380	180	-	-	-	44
SVH - 130/G185	18.5	25	100/125	60		3000	2700	2500	2200	1910	1600	1300	1070	500	250	120	-	-	48

# Jawa Series

## Waste Water Pumps With Cutter

### Specification

Power	1 to 7.5 HP
Speed	2900 rpm
Version	1Ph 230V, 50Hz 3Ph 380V, 50Hz
Duty	S1 ( Continuous )
Protection	IP68
Insulation Class	F
Head Range	6 to 27 m
Flow Range	30 to 1693 lpm



### Operating Conditions

Max. Liquid Temp.	50°C
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### Materials of Construction

Pump Casing	Cast Iron
Motor Housing	SS / CI
Impeller	High Chrome
Shaft	SS / Carbon Steel
Cutter Blade	SS
Mechanical Seal	Graphite - Silicon Carbide
Cable	8 mtr H07RNF

### Applications

Waste Water treatment plant  
Medical waste disposal  
Industrial waste disposal

### Performance Table

Model	HP	kW	Outlet Size(mm)		Head in meter									
					6	8	10	12	14	16	18	21	24	27
SC-06/D03	0.5	0.37	50	Discharge In lpm	133	50								
SC-10/D07	1	0.75	50		240	175	120	30						
SC-12/D11	1.5	1.1	50		280	230	165	115						
SC-15/D15	2	1.5	50			340	280	215	130					
SC-25/F22	3	2.2	80			751	680	597	514	415	348	150		
SC-45/F30	4	3	80			796	733	647	547	440	350	150		
SC-65/F37	5	3.7	80				1180	1130	1012	921	796	531	300	
SC-65/G40	5.5	4	100				1411	1170	1080	970	830	581	332	
SC-65/G55	7.5	5.5	100				1495	1411	1261	1130	996	747	415	
SC-A0/G75	10	7.5	100					1693	1593	1394	1195	896	597	332

\* Model name ends with S - 1Ph & T - 3 Ph

# Ronda Series

## Submersible Slurry Pumps

### Specification

Power	0.5 to 30HP
Speed	1450 RPM
Version	1Ph - 230V 3Ph - 380V
Duty	S1 ( Continuous )
Insulation Class	F
Head Range	5 to 30m
Flow Range	50 to 5644 lpm



### Operating Conditions

Max. Liquid Temp	40°C
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### Materials of Construction

Pump Casing	Cast Iron
Motor Body	Cast Iron
Impeller	High Chrome Alloy
Shaft	SS304/ SS410
Seal	Sic-Sic / Sic-Sic

### Applications

Construction
Mines & Quarries
Sewage treatment plants

### Performance Table

Model	HP	kW	Outlet Size (mm)	Solid Size (mm)	Discharge in lpm	Head in meter													
						5	6	7	8	10	12	14	16	20	22	24	26	28	30
RONDA-05	0.5	0.37	50	7		130	120	110	100	50									
RONDA-10	1	0.75	50	7		220	210	200	190	160	120	100	50						
RONDA-55	5.5	4	80	30		1490	1360	1330	1195	996	660								
RONDA-80	8	6	100	30			1990	1820	1660	1490	1160	830							
RONDA-120	12	9	150	30				2820	2660	2407	2160	1826	1494						
RONDA-200	20	15	200	30					5310	4980	4650	3984	3320	1660					
RONDA-300	30	22	200	30						5644	5480	5310	4980	4650	3984	3650	3320	2660	1990
																		1330	

# ESAM Series

## End Suction Centrifugal Pumps



### Specification

Power	upto 250HP
Speed	2900/1450/970/720rpm
Head Range	Upto 45 mtr
Flow Range	Upto 59760lpm



### Applications

Water supply  
Irrigation  
Pressure boosting  
Fire protection  
Heating and air conditioning systems  
Circulation and transfer of clean, chemically non-aggressive water and liquids  
General industrial services  
Water supply to swimming pool, fountains.  
Dewatering  
Pumping sea water  
Sugar Industry

### Material of Construction

Model	Type - C	Type - B	Type - S
Volute Casting	C.L	C.L	SS 304
Stuffing box	C.L	C.L	SS 304
Gland	C.L	C.L	SS 304
Suction Cover	C.L	C.L	SS 304
Impeller	C.L	BRONZE	SS 304
Pump Shaft	BS 970 En-8	BS 970 En-8	SS 304/316
Shaft Sleeve	SS 410	SS 410	SS 410
Lantern Ring		BS 970 En-8	
Gland Packing		TIGA	
Fasteners		BS 970 En-8	
C.L : IS 210 FG 200		BRONZE: IS 318Gr.2	
AISI 410 : Bar stock Stainless Steel ASTM A.743 Type 410			

# AHS Series

## Horizontal Splitcase Pumps

### Specification

Power	3 to 3000kW
Speed	2900/1450/960/740 rpm
Protection	IP 55 / IP 54
Insulation Class	F / B
Head Range	7 to 200m
Flow Range	22 to 30000m <sup>3</sup> /h
Outlet Size	Upto 900mm



### Operating Conditions

Max. Ambuient Temp	50°C
Max. Liquid Temp	200°C
Permissible Pressure	5 Mpa

### Material of Construction

Casing	Cast Iron
Impeller	Cast Iron / SS 304 / Bronze
Shaft	EN8 / SS 304 / SS 420
Shaft Sleeve	SS 304 / SS 420
Seal	Gland Packing / Mechanical Seal

### Applications

Industrial Water Supply	Washing systems
HVAC System	Cooling Tower
Bolier Feed	

# Enduction Motors



## Specification

Type	: Squirrel Cage Induction Motor - IE2 & IE3
Power Range	: 0.5HP to 3.0HP ( 1ph, 230V ,50Hz ) : 0.5HP to 425HP ( 3ph ,380-415V ,50Hz )
Frame Size	: 63 to 355L
Speed	: 2900 / 1450 / 960 / 740 rpm
Version	: 1ph - CSR / CSCR : 3ph - DOL / SD
Insulation Class	: "B" / "F" Class
Protection	: IP 44 / IP 55
Duty	: S1 Continuous
Mounting	: Foot (B3) / Flange ( B5 ) / Face ( B14 ) / Foot cum Flange ( B35 ) / Foot cum face ( B34 )
Direction of Rotation	: Bi-direction

# IS Series

## In-Line Single Stage Vertical Pumps

### Specification

Power	1.1 to 132kW
Speed	2900 & 1450 rpm
Protection	IP 55 / IP 54
Insulation Class	F / B
Head Range	9 to 83m
Flow Range	8 to 630m <sup>3</sup> /h
Outlet Size	Upto 250mm



### Operating Conditions

Max. Ambient Temp.	40°C
Max. Liquid Temp.	80°C
Permissible Pressure	16 Mpa

### Material of Construction

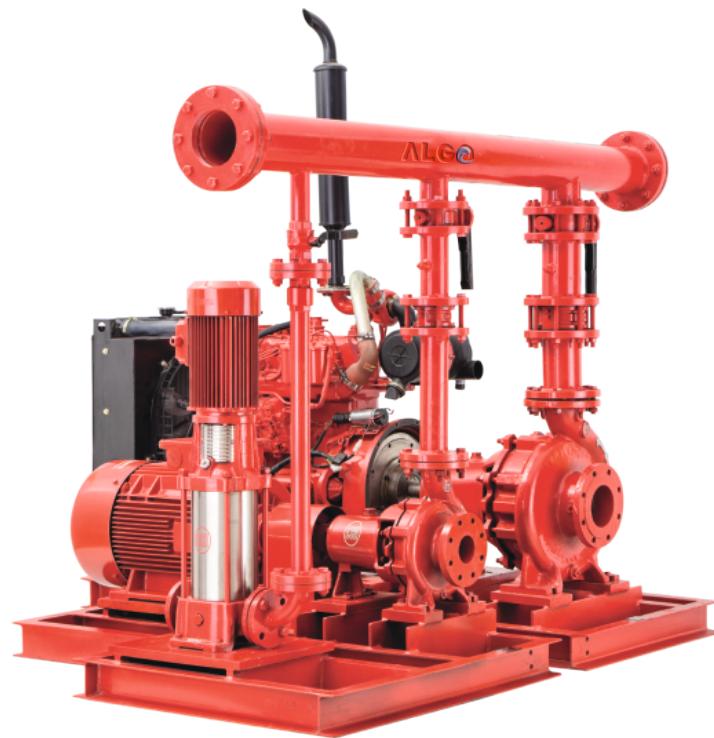
Casing	Cast Iron / SS 304
Impeller	Cast Iron / SS 304 / Bronze
Shaft	EN8 / SS 304 / SS 420
Shaft Sleeve	SS 304 / SS 420
Sealing	Mechanical Seal

### Applications

Industrial Water Supply	Washing systems
HVAC System	Cooling Tower
Bolier Feed	

# AFS Series

## Fire Fighting System



### FIRE FIGHTING SYSTEMS

### AFS SERIES

Specification	ESAR Series	CM Series	AHS Series	BM series
Flow	upto 273 m <sup>3</sup> /hr	338 m <sup>3</sup> /hr	upto 700 m <sup>3</sup> /h	upto 60 m <sup>3</sup> /hr
Head	upto 88 m	55 m	upto 100 m	upto 275 m
Delivery size	upto 150 mm	upto 150 mm	upto 200 mm	upto 100 mm
Speed	1450/2900rpm	1450/2900rpm	960/1450/2900rpm	2900rpm
Max pressure	16 bar	16 bar	16 bar	32 bar
Liquid Temperature	upto 90°C	upto 90°C	upto 90°C	upto 90°C

# Flat Hose

House Of All Type Flexible Hoses & Air Pneumatic Hoses

**ALGO**  
PUMPS | MOTORS | DRIVES

SIZE IN MM	SIZE ID (MM)	STANDARD LENGTH (MTRS.)	WALL THICKNESS (MM)	WORKING PRESSURE BAR	BRUSTING PRESSURE BAR
25MM	26.00 ± .25	60/100	0.80	4.00	11 TO 12
32MM	32.50 ± .25	60/100	0.90	4.00	11 TO 12
38MM	40.00 ± .25	60/100	1.00	4.00	11 TO 12
50MM	52.00 ± .50	60/100	1.10	4.00	11 TO 12
65MM	65.00 ± .65	60/100	1.20	4.00	11 TO 12
75MM	76.50 ± .75	60/100	1.20	4.00	11 TO 12
100MM	102.50 ± 1.00	60/100	1.20	4.00	11 TO 12
150MM	153.50 ± 1.2	60/100	1.50	4.00	11 TO 12
200MM	202.50 ± 1.2	50/100	1.80	3.00	8 TO 9

**ALGO** Flat Hose is a superior replacement to conventional

**COMPOSITION :** RIBLON FLAT HOSE IS COMPOSED OF FLEXIBLE PVC WITH SYNTHETIC YARN REINFORCED TO PROVIDE EXTRA STRENGTH.

**APPLICATION :** As delivery/discharge hose, in agriculture, at construction sites, mines and quarries, marine use in ships, transferring corrosive chemicals and liquids etc.

**Temp Range:** -10 °C Approx. To +70 °C Approx.



FAMILY  
USING



DRIP  
IRRIGATION

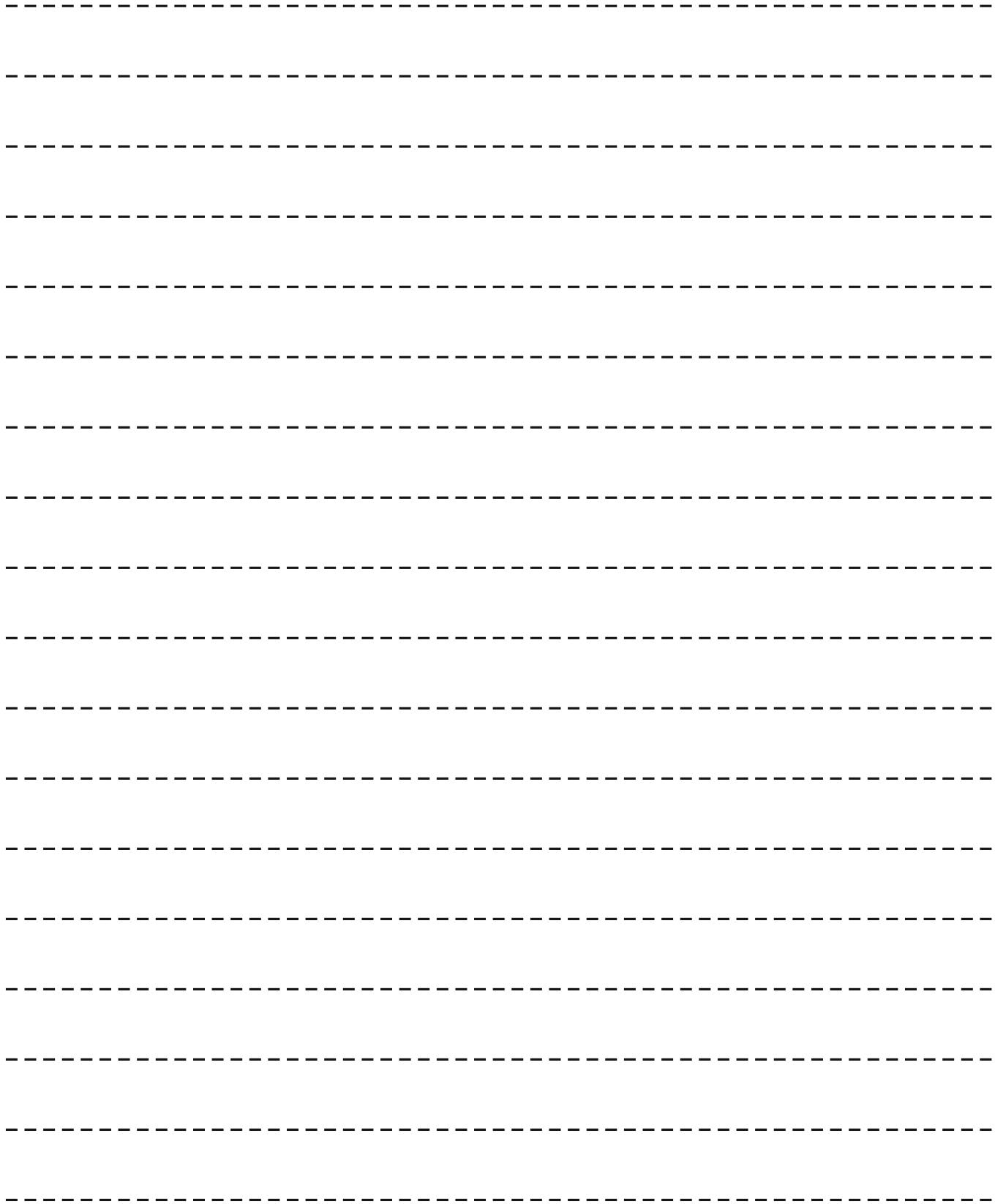


MINING



FIRE HOSE  
USING

## Note





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