

50 Hz Submersible Pumps Performance Curves Data Booklet



MBH[®]
PUMPS



Since 1969, MBH Pumps owned by Kamania family, manufactures and develops centrifugal pumps for submersible and surface installations. Over the years the Company has diversified its activity from the production of pumps for agricultural applications to Domestic, Industrial, Municipal waste water, Slurry, Water Intake and various other applications.

MBH Pumps is the right partner of every Company around the world because it is able to respond quickly and efficiently to the rapid market trends. The wide range of centrifugal pumps, the well-established experience and the continuous production quality improvement, has earned MBH pumps a well reputed name in the Competitive Market.

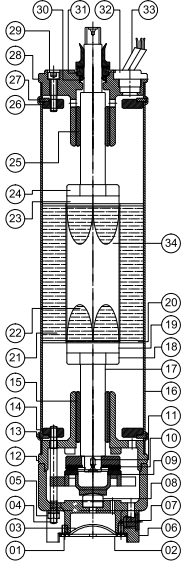
All pumps are manufactured according to international standards and technical specifications of the customer to successfully satisfy many application areas. Technologically innovative products that provide maximum performance with minimum energy consumption, able to provide the highest safety level, maintenance-free and ease of use conditions.



Municipal and Industrial solutions

Product Data	Page No.
V4 SUBMERSIBLE PUMPS (Performance Table, GA Drawing & Curves)	
Cross Section - Motor (Standard & Export)	4 - 5
Cross Section - Small & Big Pumps	6 - 7
Model: RSA-41, RS-41, RT-41	8 - 9
Model: RSA-42, RS-42, RT-42	10 - 11
Model: RSA-43, RS-43, RT-43	12 - 13
Model: RSA-49, RS-49, RT-49	14 - 15
Model: RSA-49A, RS-49A, RT-49A	16 - 17
Model: MS-412, MT-412	18 - 19
Model: MS-418, MT-418	20 - 21
Model: MS-419, MT-419	22 - 23
V6 SUBMERSIBLE PUMPS (Performance Table, GA Drawing & Curves)	
Cross Section - Motor (Standard & Export)	25
Cross Section - Pumps	26 - 27
Model: R-61	28 - 29
Model: R-62	30 - 31
Model: R-62 KS	32 - 33
Model: R-62K	34 - 35
Model: R-63	36 - 37
Model: R-63 KS	38 - 39
Model: R-63K	40 - 41
Model: R-65K	42 - 43
Model: R-65	44 - 45
Model: M-60	46 - 47
Model: M-61	48 - 49
Model: M-62	50 - 51
Model: M-63	52 - 53
Model: M-64	54 - 55
Model: M-65	56 - 57
Model: RHS-62K	58 - 59
Model: RHS-63	60 - 61
Model: RHS-63K	62 - 63
Model: RHS-65K	64 - 65
Model: RHS-65	66 - 67
Model: RHS-66	68 - 69
Model: RHS-67	70 - 71
Model: MHS-62	72 - 73
Model: MHS-64	74 - 75
Model: MHS-65	76 - 77
V8 SUBMERSIBLE PUMPS (Performance Table, GA Drawing & Curves)	
Cross Section - Motor (Standard)	78
Cross Section - Pumps	79
Model: R-81	80 - 81
Model: R-82	82 - 83
Model: R-83	84 - 85
Model: R-84	86 - 87
Model: M-80 T	88 - 89
Model: M-80	90 - 91
Model: M-81	92 - 93
Model: M-82	94 - 95
Model: M-84, M-84A	96 - 97
Model: M-85	98 - 99
Model: M-86	100 - 101
Model: M-80 TS	102 - 103
Model: M-80 S	104 - 105
Model: M-81 S	106 - 107
Model: M-82 S	108 - 109

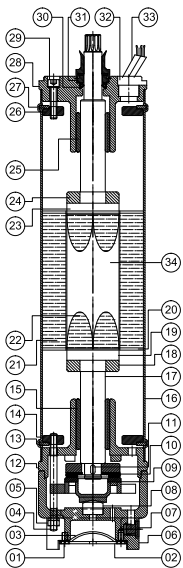
Cross Section - 0.5 HP to 1.5 HP Motor (Standard)



SR.	DESCRIPTION	MATERIAL
1	M5 SCREW FOR BASE COVER	S.S.
2	BASE PLATE	M.S.
3	RUBBER CUP	NITRILE RUBBER
4	LOWER FLANGE STUD	S.S.
5	HEX NUT	S.S.
6	MOTOR BASE	C.I IS- 210 FG 200
7	DRAIN PLUG	BRASS
8	ROCKER SUPPORT	S.S.
9	T.B. SET	C.I. S.S.
10	REVOLVING PLATE	C.I - CARBON
11	REVOLVING PLATE KEY	S.S.
12	LOWER HOUSING	C.I IS- 210 FG 200
13	STATOR CIRCLIP LOWER SIDE	SPRING STEEL
14	LOWER FLANGE	M.S.
15	BUSH LOWER HOUSING	L.T.B - 4
16	STATOR TUBE	S.S.
17	ROTOR SHAFT	S.S.

SR.	DESCRIPTION	MATERIAL
18	BALANCE RING LOWER SIDE	C.I IS-210 FG 200
19	COPPER RING LOWER SIDE	COPPER
20	END LAMINATION	M.S.
21	STATOR STAMPING	CRNO
22	ROTOR STAMPING	CRNO
23	COPPER RING UPPER SIDE	COPPER
24	BALANCE RING UPPER SIDE	C.I IS-210FG200
25	BUSH UPPER HOUSING	L.T.B - 4
26	UPPER FLANGE	M.S.
27	STATOR CIRCLIP UPPER SIDE	SPRING STEEL
28	UPPER HOUSING	C.I IS-210FG200
29	UPPER ALLEN BOLT	S.S.
30	OIL SEAL	NITRILE RUBBER
31	SEAL CAP	S.S.
32	GROMMET PLUG	BRASS
33	CABLE	STANDARD
34	ROTOR COMPLETE	COPPER - ALUMINIUM

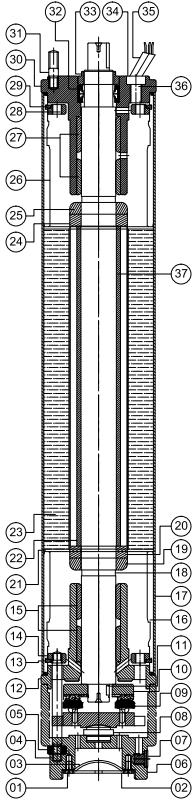
Cross Section - 0.5 HP to 1.5 HP Motor (Export)



SR.	DESCRIPTION	MATERIAL
1	M5 SCREW FOR BASE COVER	S.S.
2	BASE PETE	M.S.
3	RUBBER CUP	NITRILE RUBBER
4	LOWER FLANGE STUD	S.S.
5	HEX NUT	S.S.
6	MOTOR BASE	C.I IS- 210 FG 200
7	DRAIN PLUG	BRASS
8	ROCKER SUPPORT	S.S.
9	T.B. SET	C.I. S.S.
10	REVOLVING PLATE	C.I - CARBON
11	REVOLVING PLATE KEY	S.S.
12	LOWER HOUSING	C.I IS- 210 FG 200
13	STATOR CIRCLIP LOWER SIDE	SPRING STEEL
14	LOWER FLANGE	M.S.
15	BUSH LOWER HOUSING	L.T.B - 4
16	STATOR TUBE	S.S.
17	ROTOR SHAFT	S.S.

SR.	DESCRIPTION	MATERIAL
18	BALANCE RING LOWER SIDE	C.I IS-210FG200
19	COPPER RING LOWER SIDE	COPPER
20	END LAMINATION	M.S.
21	STATOR STAMPING	CRNO
22	ROTOR STAMPING	CRNO
23	COPPER RING UPPER SIDE	COPPER
24	BALANCE RING UPPER SIDE	C.I IS- 210 FG 200
25	BUSH UPPER HOUSING	L.T.B - 4
26	UPPER FLANGE	M.S.
27	STATOR CIRCLIP UPPER SIDE	SPRING STEEL
28	UPPER HOUSING	C.I IS-210FG200
29	UPPER ALLEN BOLT	S.S.
30	OIL SEAL	NITRILE RUBBER
31	SEAL CAP	S.S.
32	GROMMET PLUG	BRASS
33	CABLE	STANDARD
34	ROTOR COMPLETE	COPPER - ALUMINIUM

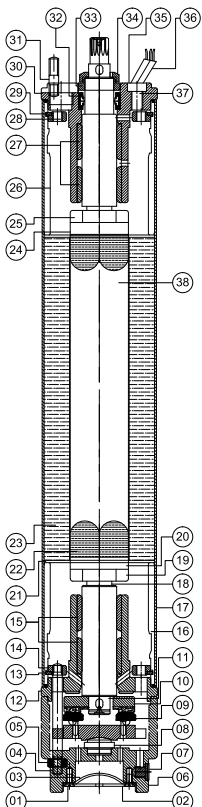
Cross Section - 2 HP to 6 HP Motor (Standard)



SR.	DESCRIPTION	MATERIAL
1	M5 SCREW FOR BASE COVER	S.S.
2	BASE PLATE	M.S.
3	RUBBER CUP	NITRILE RUBBER
4	LOWER FLANGE STUD	S.S.
5	HEX NUT	S.S.
6	MOTOR BASE	C.I IS- 210 FG 200
7	DRAIN PLUG	BRASS
8	ROCKER SUPPORT	S.S.
9	T.B. SET	C.I. S.S.
10	REVOLVING PLATE	C.I - CARBON
11	REVOLVING PLATE KEY	S.S.
12	LOWER HOUSING	C.I IS- 210 FG 200
13	STATOR CIRCLIP LOWER SIDE	SPRING STEEL
14	LOWER FLANGE	M.S.
15	BUSH LOWER HOUSING	L.T.B - 4
16	LOWER COLLAR	M.S
17	STATOR TUBE	S.S.
18	ROTOR SHAFT	S.S.
19	BALANCE RING LOWER SIDE	C.I IS-210FG200

SR.	DESCRIPTION	MATERIAL
20	COPPER RING LOWER SIDE	COPPER
21	END LAMINATION	M.S.
22	ROTOR STAMPING	CRNO
23	STATOR STAMPING	CRNO
24	COPPER RING UPPER SIDE	COPPER
25	BALANCE RING UPPER SIDE	C.I IS-210FG200
26	UPPER COLLAR	M.S.
27	BUSH UPPER HOUSING	L.T.B - 4
28	UPPER FLANGE	M.S
29	STATOR CIRCLIP UPPER SIDE	SPRING STEEL
30	UPPER HOUSING	C.I IS-210FG200
31	UPPER STUD	S.S.
32	OIL SEAL	NITRILE RUBBER
33	SEAL CAP	S.S
34	GROMMET PLUG	BRASS
35	CABLE	STANDARD
36	ALLEN BOLT UPPER HOUSING	S.S.
37	ROTOR COMPLETE	COPPER

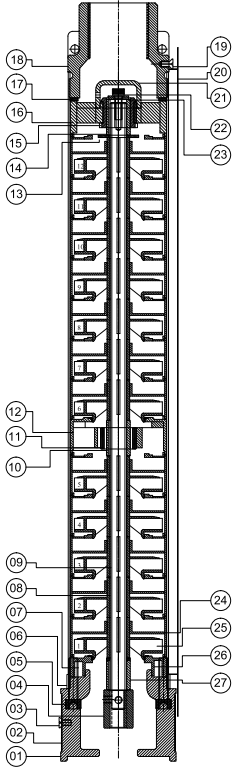
Cross Section - 2 HP to 6 HP Motor (Export)



SR.	DESCRIPTION	MATERIAL
1	M5 SCREW FOR BASE COVER	S.S.
2	BASE PLATE	M.S.
3	RUBBER CUP	NITRILE RUBBER
4	LOWER FLANGE STUD	S.S.
5	HEX NUT	S.S.
6	MOTOR BASE	C.I IS- 210 FG 200
7	DRAIN PLUG	BRASS
8	ROCKER SUPPORT	S.S.
9	T.B. SET	C.I. S.S.
10	REVOLVING PLATE	C.I - CARBON
11	REVOLVING PLATE KEY	S.S.
12	LOWER HOUSING	C.I IS- 210 FG 200
13	STATOR CIRCLIP LOWER SIDE	SPRING STEEL
14	LOWER FLANGE	M.S.
15	BUSH LOWER HOUSING	L.T.B - 4
16	LOWER COLLAR	M.S.
17	STATOR TUBE	S.S.
18	ROTOR SHAFT	S.S.
19	BALANCE RING LOWER SIDE	C.I IS- 210 FG 200

SR.	DESCRIPTION	MATERIAL
20	COPPER RING LOWER SIDE	COPPER
21	END LAMINATION	M.S.
22	ROTOR STAMPING	CRNO
23	STATOR STAMPING	CRNO
24	COPPER RING UPPER SIDE	COPPER
25	BALANCE RING UPPER SIDE	C.I IS- 210 FG 200
26	UPPER COLLAR	M.S.
27	BUSH UPPER HOUSING	L.T.B - 4
28	UPPER FLANGE	M.S.
29	STATOR CIRCLIP UPPER SIDE	SPRING STEEL
30	UPPER HOUSING	C.I IS- 210 FG 200
31	UPPER STUD	S.S.
32	OIL SEAL	NITRILE RUBBER
33	SEAL CAP	S.S.
34	SAND GUARD	BRASS
35	GROMMET PLUG	BRASS
36	CABLE	STANDARD
37	ALLEN BOLT UPPER HOUSING	S.S.
38	ROTOR COMPLETE	COPPER

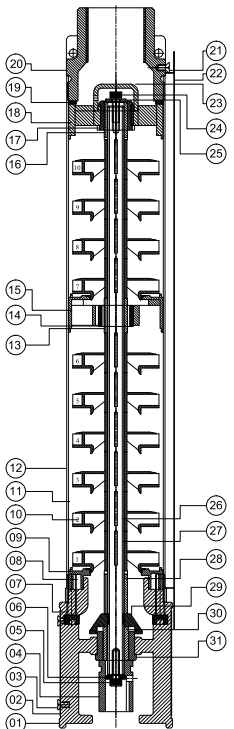
Cross Section - Small Pump R-41 to R-49



SR.	DESCRIPTION	MATERIAL
1	ADAPTOR	C.I IS-210 FG 200
2	ADAPTOR STRAINER	S.S
3	M5 SCREW FOR STRAINER	S.S
4	PUMP COUPLING	S.S. - 410
5	M8 ALLEN BOLT	S.S
6	PUMP OUTER TUBE	S.S
7	M8 SQUARE NUT	S.S.
8	PUMP SHAFT	S.S. - 410
9	PUMP SHAFT KEY	S.S.
10	MIDDLE SLEEVE	S.S.
11	MIDDLE METAL COVER RUBBER BUSH	RUBBER - S.S.
12	MIDDLE D.O.	P.P.
13	WASHER FOR TOP SLEEVE	S.S.
14	TOP SLEEVE	S.S.

SR.	DESCRIPTION	MATERIAL
15	D.O.L. RUBBER BUSH	NITRILE RUBBER
16	D.O.L.	P.P.
17	"O" RING D.O.L. & N.R.V. BODY	NITRILE RUBBER
18	N.R.V BODY	C.I IS- 210 FG 200
19	M5 SCREW FOR CABLE CLIP	S.S.
20	CABLE GUARD	S.S.
21	ADJUSTING CAP FOR D.O.L.	P.P.
22	M6 ALLEN BOLT	S.S.
23	WASHER	S.S.
24	STAGE CASING	P.P.
25	IMPELLER	P.P.
26	ADAPTOR PLATE	P.P.
27	ADAPTOR SLEEVE	S.S.

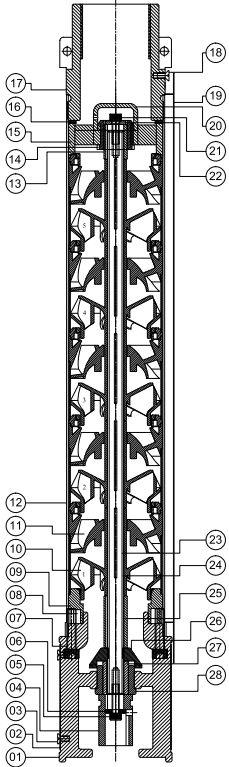
Cross Section - Big Pump R-41 to R-49



SR.	DESCRIPTION	MATERIAL
1	ADAPTOR	C.I IS-210 FG 200
2	ADAPTOR STRAINER	S.S.
3	M5 SCREW FOR STRAINER	S.S
4	PUMP COUPLING	S.S. - 410
5	M6 ALLEN BOLT	S.S.
6	WASHER FOR COUPLING	S.S.
7	M8 ALLEN BOLT	S.S.
8	M8 SQUARE NUT	S.S.
9	ADAPTOR PLATE	P.P.
10	IMPELLER	P.P.
11	STAGE CASING	P.P.
12	PUMP OUTER TUBE	S.S.
13	MIDDLE SLEEVE	S.S.
14	MIDDLE METAL COVER RUBBER BUSH	RUBBER - S.S.
15	MIDDLE D.O.	P.P.
16	TOP SLEEVE	S.S.

SR.	DESCRIPTION	MATERIAL
17	D.O.L. RUBBER BUSH	NITRILE RUBBER
18	D.O.L.	P.P.
19	"O" RING D.O.L. & N.R.V. BODY	NITRILE RUBBER
20	N.R.V. BODY	C.I IS-210 FG 200
21	M5 SCREW FOR CABLE CLIP	S.S.
22	CABLE GUARD	S.S.
23	ADJUSTING CAP FOR D.O.L.	P.P.
24	M6 ALLEN BOLT	S.S.
25	WASHER	S.S.
26	PUMP SHAFT	S.S. - 410
27	PUMP SHAFT KEY	S.S.
28	DISTANCE SLEEVE	S.S.
29	SAND GUARD	NYLON
30	ADAPTOR SLEEVE	S.S.
31	ADAPTOR C.T. BUSH	LTB-4

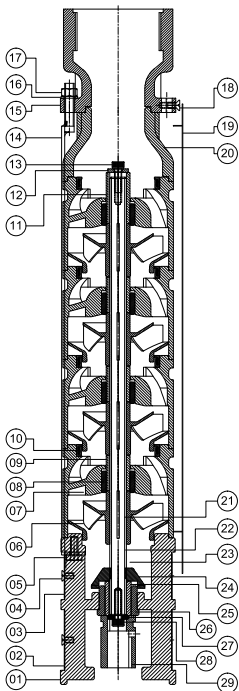
Cross Section - Big Pump M-412 to M-418



SR.	DESCRIPTION	MATERIAL
1	ADAPTOR	C.I IS-210 FG 200
2	ADAPTOR STRAINER	S.S
3	M5 SCREW FOR STRAINER	S.S
4	PUMP COUPLING	S.S. - 410
5	M6 ALLEN BOLT	S.S
6	WASHER FOR COUPLING	S.S
7	M8 ALLEN BOLT	S.S
8	M8 SQUARE NUT	S.S.
9	ADAPTOR PLATE	P.P.
10	IMPELLER	P.P.
11	STAGE CASING	P.P. + S.S.
12	PUMP OUTER TUBE	S.S
13	TOP SLEEVE	S.S.
14	D.O.L. RUBBER BUSH	NITRILE RUBBER

SR.	DESCRIPTION	MATERIAL
15	D.O.L.	P.P.
16	"O" RING D.O.L. & N.R.V. BODY	NITRILE RUBBER
17	N.R.V BODY	C.I IS-210 FG 200
18	M5 SCREW FOR CABLE CLIP	S.S.
19	CABLE GUARD	S.S.
20	ADJUSTING CAP FOR D.O.L.	P.P.
21	M6 ALLEN BOLT	S.S.
22	WASHER FOR SLEEVE	S.S.
23	PUMP SHAFT	S.S. - 410
24	PUMP SHAFT KEY	S.S.
25	DISTANCE SLEEVE	S.S.
26	SAND GUARD	NYLON
27	ADAPTOR SLEEVE	S.S.
28	ADAPTOR C.T. BUSH	LTB-4

Cross Section - Big Pump M-419



SR.	DESCRIPTION	MATERIAL
1	ADAPTOR	C.I IS-210 FG 200
2	ADAPTOR STRAINER 1	S.S.
3	ADAPTOR STRAINER 2	S.S.
4	M5 SCREW FOR STRAINER	S.S.
5	ADAPTOR HEX BOLT FOR T- BOLT	S.S.
6	IMPELLER	P.P.
7	STAGE CASING	C.I IS-210 FG 200
8	STAGE CASING BUSH	LTB-4
9	STAGE CASING SLEEVE	S.S
10	NECK RING	RUBBER -NITRILE
11	TOP SLEEVE	S.S.
12	WASHER FOR SLEEVE	S.S.
13	M6 ALLEN BOLT	S.S.
14	PUMP STUD	S.S.
15	NRV BODY	C.I IS-210 FG 200

SR.	DESCRIPTION	MATERIAL
16	PUMP STUD WASHER	S.S.
17	HEX NUT FOR PUMP STUD	S.S.
18	M5 SCREW FOR CABLE CLIP	S.S.
19	CABLE GUARD	S.S.
20	D.O.L	C.I IS-210 FG 200
21	PUMP SHAFT	S.S. - 410
22	PUMP SHAFT KEY	S.S.
23	DISTANCE SLEEVE	S.S.
24	SAND GUARD	NYLON
25	ADAPTOR SLEEVE	S.S
26	ADAPTOR C.T. BUSH	LTB-4
27	WASHER FOR COUPLING	S.S
28	M6 ALLEN BOLT	S.S
29	PUMP COUPLING	S.S. - 410

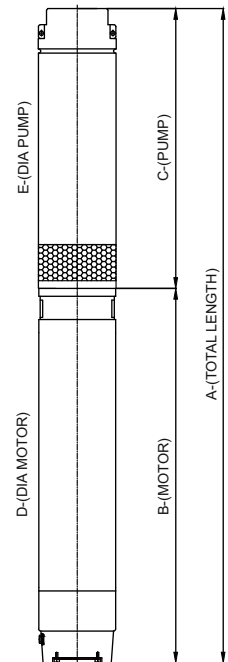
Performance Chart • Model: RSA-41, RS-41, RT-41

Outlet Size 1.5" (38 mm)

MODEL: RSA-41		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	20	35	40	50	55	60	75
6	0.75		40	35	30	28	25	23	14
8	1.00		53	46	40	37	33	30	19
10	1.00		67	58	50	46	41	38	23
12	1.50		80	69	60	55	49	45	28
13	1.50		87	75	65	60	53	49	30
MODEL: RS-41		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	20	35	40	50	55	60	75
6	0.75		40	35	30	28	25	23	14
8	1.00		53	46	40	37	33	30	19
10	1.00		67	58	50	46	41	38	23
12	1.50		80	69	60	55	49	45	28
13	1.50		87	75	65	60	53	49	30
15	2.00		100	86	75	69	62	56	35
17	2.00		113	98	85	78	70	64	40
18	3.00		120	104	90	83	74	68	42
20	3.00		133	115	100	92	82	75	47
22	3.00		147	127	110	101	90	83	51
25	3.00		167	144	125	115	103	94	58
27	5.00		180	155	135	124	111	101	63
30	5.00		200	173	150	138	123	113	70
MODEL: RT-41			DISCHARGE IN LPM						
STG.	H.P.	HEAD IN METERS	20	35	40	50	55	60	75
7	1.0		47	40	35	32	29	26	16
8	1.0		53	46	40	37	33	30	19
10	1.0		67	58	50	46	41	38	23
12	1.5		80	69	60	55	49	45	28
13	1.5		87	75	65	60	53	49	30
15	2.0		100	86	75	69	62	56	35
17	2.0		113	98	85	78	70	64	40
18	3.0		120	104	90	83	74	68	42
20	3.0		133	115	100	92	82	75	47
22	3.0		147	127	110	101	90	83	51
25	3.0		167	144	125	115	103	94	58
28	4.0		186	161	140	129	115	105	65
30	4.0		200	173	150	138	123	113	70

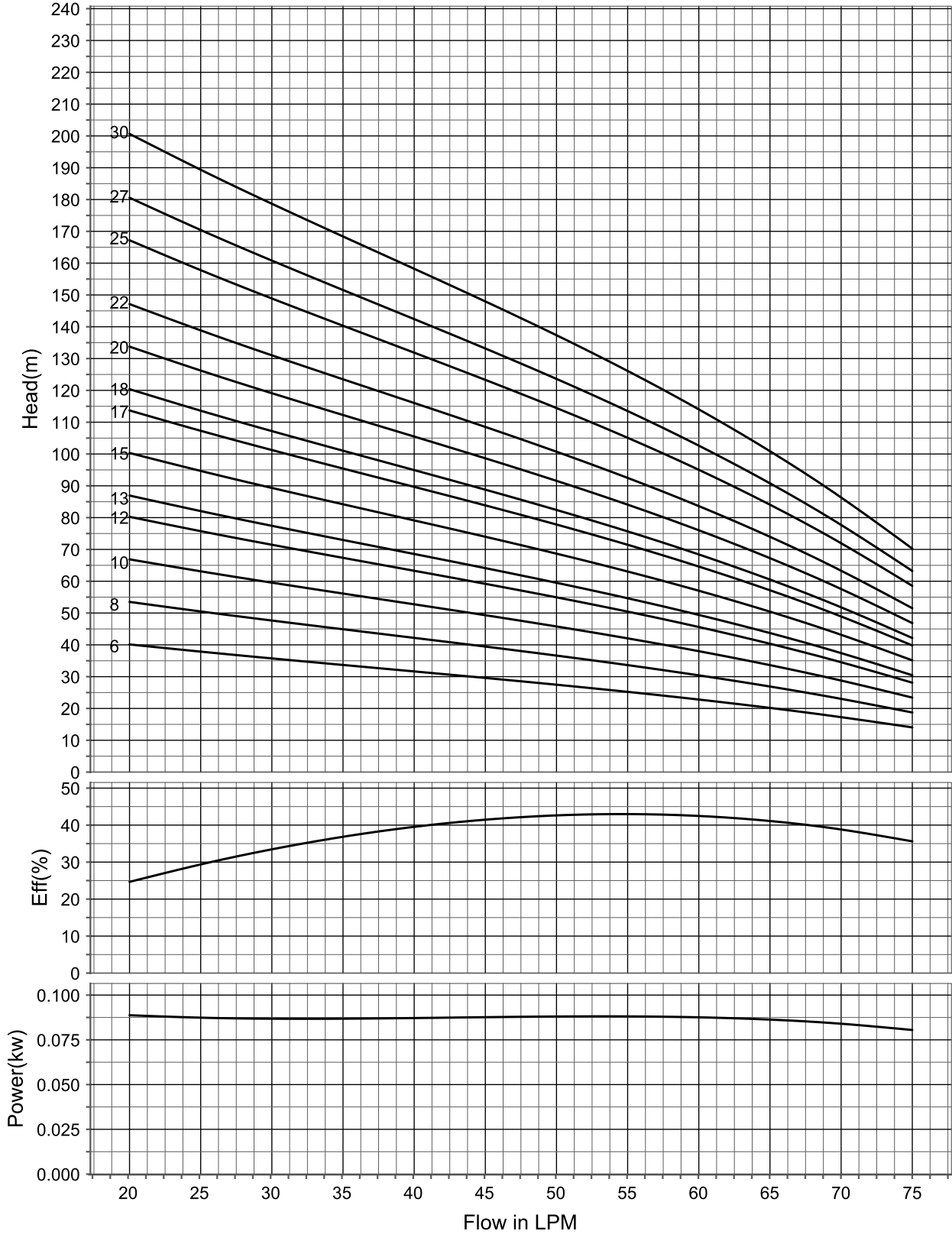
GA Drawing Dimension • Model: RSA-41, RS-41, RT-41

Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
RSA-41	0.75	6	443	358	801	97	97	13	3	16
RSA-41	1	8	458	408	866	97	97	14	4	18
RSA-41	1	10	458	458	916	97	97	14	4	18
RSA-41	1.5	12	498	538	1036	97	97	15	5	20
RSA-41	1.5	13	498	563	1061	97	97	15	5	20
RS-41	0.75	6	443	358	801	97	97	13	3	16
RS-41	1	8	458	408	866	97	97	14	4	18
RS-41	1	10	458	458	916	97	97	14	4	18
RS-41	1.5	12	498	538	1036	97	97	15	5	20
RS-41	1.5	13	498	563	1061	97	97	15	5	20
RS-41	2	15	590	654	1244	97	97	22	6	28
RS-41	2	17	590	704	1294	97	97	22	7	29
RS-41	3	18	705	729	1434	97	97	27	8	35
RS-41	3	20	705	779	1484	97	97	27	9	36
RS-41	3	22	705	859	1564	97	97	27	9	36
RS-41	3	25	705	946	1651	97	97	27	10	37
RS-41	5	27	745	997	1742	97	97	29	11	40
RS-41	5	30	745	1074	1819	97	97	29	12	41
RT-41	1	7	458	383	841	97	97	14	3	17
RT-41	1	8	458	408	866	97	97	14	4	18
RT-41	1	10	458	458	916	97	97	14	4	18
RT-41	1.5	12	498	534	1032	97	97	15	5	20
RT-41	1.5	13	498	563	1061	97	97	15	5	20
RT-41	2	15	590	654	1244	97	97	22	6	28
RT-41	2	17	590	704	1294	97	97	22	7	29
RT-41	3	18	620	729	1349	97	97	27	8	35
RT-41	3	20	620	779	1399	97	97	27	9	36
RT-41	3	22	620	859	1479	97	97	27	10	37
RT-41	3	25	620	946	1566	97	97	27	11	38
RT-41	4	28	670	1023	1693	97	97	25	12	37
RT-41	4	30	670	1074	1744	97	97	25	12	37



All Dimension are in mm		
A	B	C
±20	±10	±10

Performance Curves • Model: RSA-41, RS-41, RT-41



Outlet: 38 mm • Max OD: 98 mm • Min Bore: 100 mm

RSA-41 upto 1.5 HP & upto 13 STG

RS-41 upto 5 HP & upto 30 STG

RT-41 upto 4 HP & upto 30 STG

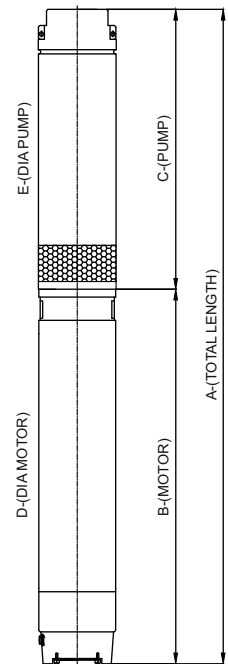
Performance Chart • Model: RSA-42, RS-42, RT-42

Outlet Size 1.5" (38 mm)

MODEL: RSA-42		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	20	40	60	80	100	120	140
6	0.75		35	32	29	26	21	16	8
8	1.00		46	42	39	34	28	21	11
10	1.50		58	53	49	43	35	26	14
11	1.50		64	58	54	47	39	29	15
MODEL: RS-42		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	20	40	60	80	100	120	140
6	0.75		35	32	29	26	21	16	8
8	1.00		46	42	39	34	28	21	11
10	1.50		58	53	49	43	35	26	14
11	1.50		64	58	54	47	39	29	15
12	2.00		70	64	59	52	42	31	17
15	2.00		87	80	74	65	53	39	21
16	3.00		93	85	78	69	56	42	22
18	3.00		104	95	88	77	63	47	25
20	3.00		116	106	98	86	70	52	28
22	5.00		128	117	108	95	77	57	31
25	5.00		145	133	123	108	88	65	35
28	5.00		162	148	137	120	98	73	39
30	5.00		174	159	147	129	105	78	42
MODEL: RT-42			DISCHARGE IN LPM						
STG.	H.P.	HEAD IN METERS	20	40	60	80	100	120	140
7	1.0		41	37	34	30	25	18	10
8	1.0		46	42	39	34	28	21	11
10	1.5		58	53	49	43	35	26	14
11	1.5		64	58	54	47	39	29	15
12	2.0		70	64	59	52	42	31	17
15	2.0		87	80	74	65	53	39	21
16	3.0		93	85	78	69	56	42	22
18	3.0		104	95	88	77	63	47	25
20	3.0		116	106	98	86	70	52	28
22	5.0		128	117	108	95	77	57	31
25	5.0		145	133	123	108	88	65	35
28	5.0		162	148	137	120	98	73	39
30	5.0	174	159	147	129	105	78	42	

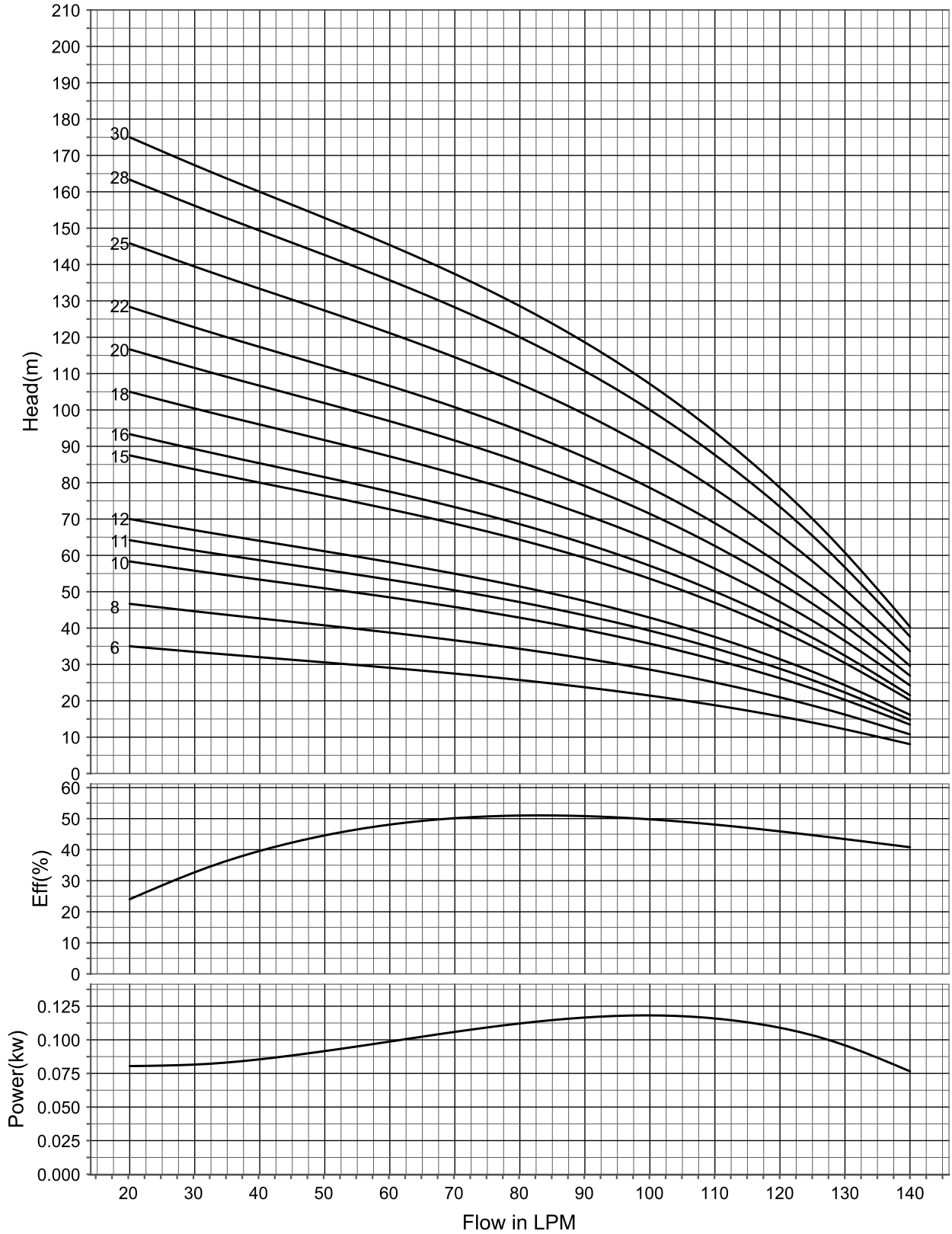
GA Drawing Dimension • Model: RSA-42, RS-42, RT-42

Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
RSA-42	0.75	6	443	412	855	97	97	13	4	17
RSA-42	1	8	458	480	938	97	97	14	5	19
RSA-42	1	10	458	548	1006	97	97	14	5	19
RSA-42	1.5	11	498	583	1081	97	97	15	5	20
RS-42	0.75	6	443	412	855	97	97	13	4	17
RS-42	1	8	458	480	938	97	97	14	5	19
RS-42	1.5	10	498	548	1046	97	97	15	5	20
RS-42	1.5	11	498	583	1081	97	97	15	5	20
RS-42	2	12	678	590	1268	97	97	22	6	28
RS-42	2	15	590	688	1278	97	97	22	6	28
RS-42	3	16	705	824	1529	97	97	27	6	33
RS-42	3	18	705	892	1597	97	97	27	7	34
RS-42	3	20	705	960	1665	97	97	27	7	34
RS-42	5	22	745	1059	1804	97	97	29	8	37
RS-42	5	25	745	1159	1904	97	97	29	9	38
RS-42	5	28	745	1260	2005	97	97	29	9	38
RS-42	5	30	745	1328	2073	97	97	29	10	39
RT-42	1	7	458	446	904	97	97	14	4	18
RT-42	1	8	458	480	938	97	97	14	5	19
RT-42	1.5	10	498	548	1046	97	97	15	5	20
RT-42	1.5	11	498	582	1080	97	97	15	5	20
RT-42	2	12	590	688	1278	97	97	22	6	28
RT-42	2	15	590	790	1380	97	97	22	6	28
RT-42	3	16	620	824	1444	97	97	24	6	30
RT-42	3	18	620	892	1512	97	97	24	7	31
RT-42	3	20	620	960	1580	97	97	24	7	31
RT-42	5	22	705	1059	1764	97	97	27	8	35
RT-42	5	25	705	1158	1863	97	97	27	9	36
RT-42	5	28	705	1260	1965	97	97	27	9	36
RT-42	5	30	705	1328	2033	97	97	27	10	37



All Dimension are in mm		
A	B	C
±20	±10	±10

Performance Curves • Model: RSA-42, RS-42, RT-42



Outlet: 38 mm • Max OD: 98 mm • Min Bore: 100 mm

RSA-42 upto 1.5 HP & upto 11 STG

RS-42 upto 5 HP & upto 30 STG

RT-42 upto 5 HP & upto 30 STG

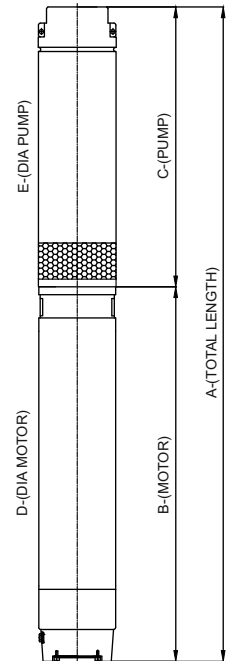
Performance Chart • Model: RSA-43, RS-43, RT-43

Outlet Size 1.5" (38 mm)

MODEL: RSA-43		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	75	90	115	120	130	145	150
6	1.00		33	32	28	27	24	20	17
7	1.50		39	38	33	32	28	24	20
9	1.50		50	49	42	41	36	31	26
MODEL: RS-43		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	75	90	115	120	130	145	150
6	1.00		33	32	28	27	24	20	17
7	1.50		39	38	33	32	28	24	20
9	1.50		50	49	42	41	36	31	26
10	2.00		55	54	47	45	40	34	29
12	3.00		66	65	56	54	48	41	35
15	3.00		83	81	71	68	60	51	44
16	5.00		88	86	75	72	64	54	46
18	5.00		99	97	85	81	72	61	52
20	5.00		110	108	94	90	80	68	58
22	5.00		121	119	103	99	88	75	64
25	5.00		138	135	118	113	100	85	73
MODEL: RT-43		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	75	90	115	120	130	145	150
6	1.0		33	32	28	27	24	20	17
7	1.5		39	38	33	32	28	24	20
9	1.5		50	49	42	41	36	31	26
10	2.0		55	54	47	45	40	34	29
11	2.0		61	59	52	50	44	37	32
12	3.0		66	65	56	54	48	41	35
15	3.0		83	81	71	68	60	51	44
16	4.0		88	86	75	72	64	54	46
18	4.0		99	97	85	81	72	61	52
19	4.0		105	103	89	86	76	65	55
20	5.0		110	108	94	90	80	68	58
22	5.0		121	119	103	99	88	75	64
25	5.0	138	135	118	113	100	85	73	

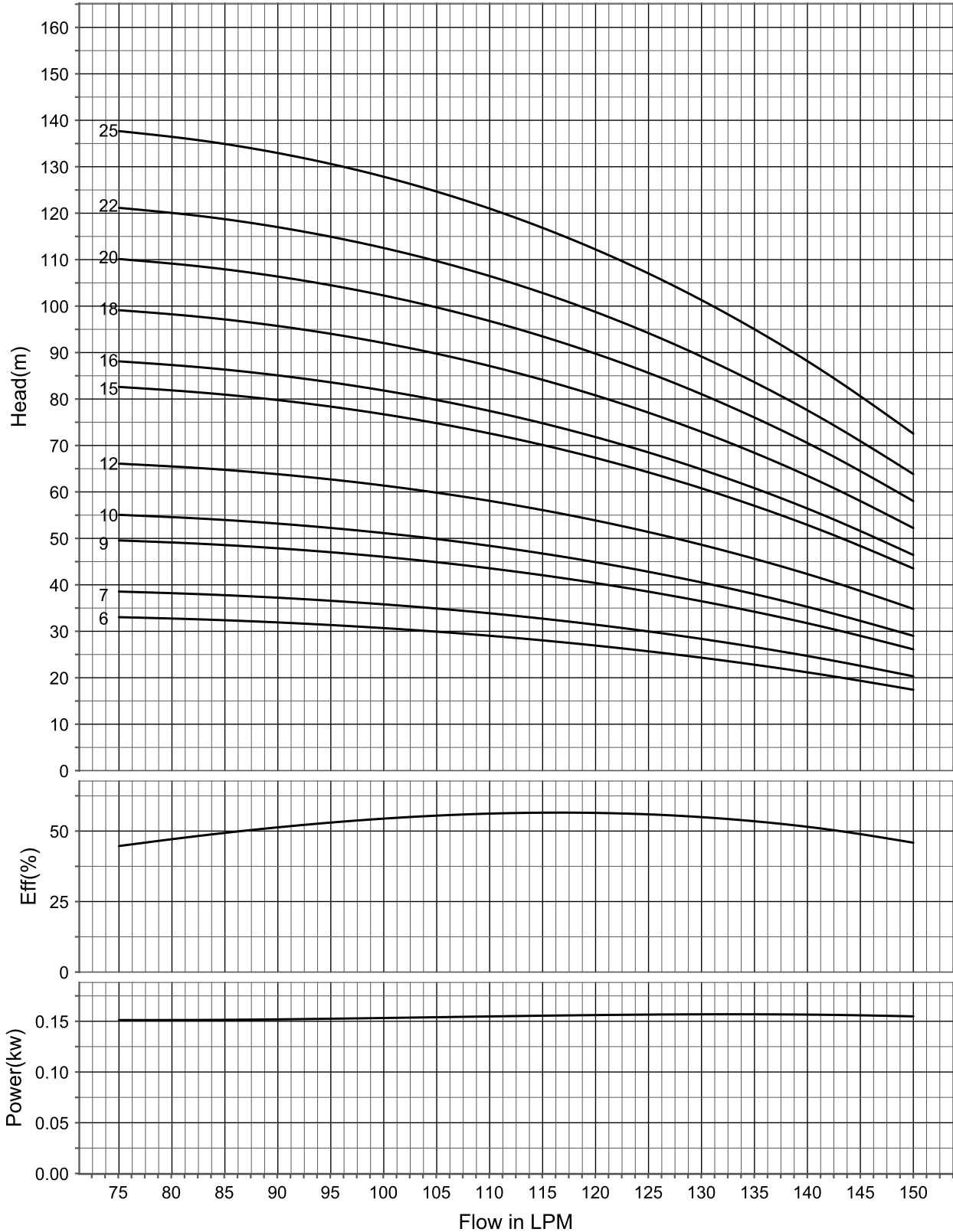
GA Drawing Dimension • Model: RSA-43, RS-43, RT-43

Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
RSA-43	1	6	458	412	870	97	97	14	4	18
RSA-43	1.5	7	498	446	944	97	97	15	4	19
RSA-43	1.5	9	498	541	1039	97	97	15	5	20
RS-43	1	6	458	412	870	97	97	14	4	18
RS-43	1.5	7	498	446	944	97	97	15	4	19
RS-43	1.5	9	498	514	1012	97	97	15	5	20
RS-43	2	10	590	589	1179	97	97	22	5	27
RS-43	3	12	705	688	1393	97	97	27	5	32
RS-43	3	15	705	790	1495	97	97	27	6	33
RS-43	5	16	745	824	1569	97	97	29	6	35
RS-43	5	18	745	892	1637	97	97	29	7	36
RS-43	5	20	745	960	1705	97	97	29	7	36
RS-43	5	22	745	1059	1804	97	97	29	8	37
RS-43	5	25	745	1158	1903	97	97	29	9	38
RT-43	1	6	458	412	870	97	97	14	4	18
RT-43	1.5	7	498	446	944	97	97	15	4	19
RT-43	1.5	9	498	514	1012	97	97	15	5	20
RT-43	2	10	590	589	1179	97	97	22	5	27
RT-43	2	11	590	624	1214	97	97	22	5	27
RT-43	3	12	620	688	1308	97	97	24	5	29
RT-43	3	15	620	790	1410	97	97	24	6	30
RT-43	4	16	670	824	1494	97	97	25	6	31
RT-43	4	18	670	892	1562	97	97	25	7	32
RT-43	4	19	670	926	1596	97	97	25	7	32
RT-43	5	20	705	960	1665	97	97	27	7	34
RT-43	5	22	705	1059	1764	97	97	27	8	35
RT-43	5	25	705	1158	1863	97	97	27	9	36



All Dimension are in mm		
A	B	C
±20	±10	±10

Performance Curves • Model: RSA-43, RS-43, RT-43



Outlet: 38 mm • Max OD: 98 mm • Min Bore: 100 mm

RSA-43 upto 1.5 HP & upto 9 STG

RS-43 upto 5 HP & upto 25 STG

RT-43 upto 5 HP & upto 25 STG

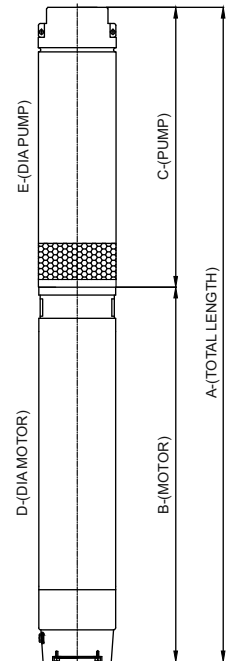
Performance Chart • Model: RSA-49, RS-49, RT-49

Outlet Size 1.25" (32 mm)

MODEL: RSA-49		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	16	23	27	30	38	44	52
5	0.50		30	28	26	24	20	17	14
8	0.50		48	45	42	39	32	27	22
10	0.75		60	56	53	48	40	34	28
11	0.75		66	62	58	53	44	37	31
12	1.00		72	67	63	58	48	41	34
15	1.00		90	84	79	72	60	51	42
16	1.50		96	90	84	77	64	54	45
18	1.50		108	101	95	87	72	61	50
MODEL: RS-49			DISCHARGE IN LPM						
STG.	H.P.	HEAD IN METERS	16	23	27	30	38	44	52
5	0.50		30	28	26	24	20	17	14
8	0.50		48	45	42	39	32	27	22
10	0.75		60	56	53	48	40	34	28
11	0.75		66	62	58	53	44	37	31
12	1.00		72	67	63	58	48	41	34
15	1.00		90	84	79	72	60	51	42
16	1.50		96	90	84	77	64	54	45
18	1.50		108	101	95	87	72	61	50
20	2.00		120	112	105	97	80	68	56
22	2.00		132	123	116	106	88	75	62
25	2.00		150	140	131	121	100	85	70
27	3.00		162	151	142	130	108	92	76
28	3.00		168	157	147	135	112	95	78
30	3.00		180	168	158	145	120	102	84
MODEL: RT-49		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	16	23	27	30	38	44	52
12	1.0		72	67	63	58	48	41	34
15	1.0		90	84	79	72	60	51	42
16	1.5		96	90	84	77	64	54	45
18	1.5		108	101	95	87	72	61	50
20	2.0		120	112	105	97	80	68	56
22	2.0		132	123	116	106	88	75	62
25	2.0		150	140	131	121	100	85	70
27	3.0		162	151	142	130	108	92	76
28	3.0		168	157	147	135	112	95	78
30	3.0		180	168	158	145	120	102	84

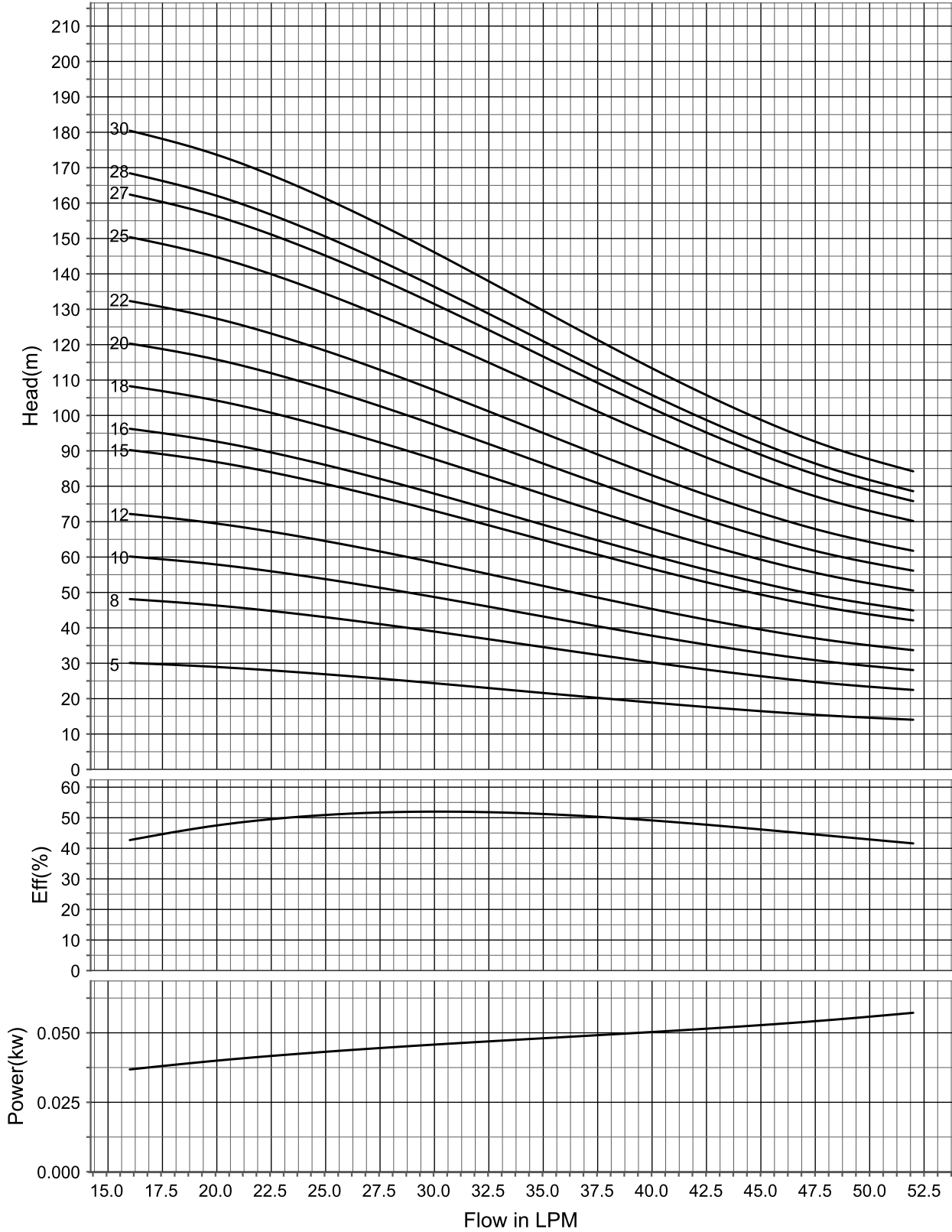
GA Drawing Dimension • Model: RSA-49, RS-49, RT-49

Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
RSA-49	0.5	5	418	323	741	97	97	11	3	14
RSA-49	0.5	8	418	392	810	97	97	11	4	15
RSA-49	0.75	10	443	438	881	97	97	13	4	17
RSA-49	0.75	11	443	461	904	97	97	13	5	18
RSA-49	1	12	458	514	972	97	97	14	5	19
RSA-49	1	15	458	583	1041	97	97	14	6	20
RSA-49	1.5	16	498	606	1104	97	97	15	6	21
RSA-49	1.5	18	498	652	1150	97	97	15	6	21
RS-49	0.5	5	418	323	741	97	97	11	3	14
RS-49	0.5	8	418	392	810	97	97	11	4	15
RS-49	0.75	10	443	438	881	97	97	13	4	17
RS-49	0.75	11	443	461	904	97	97	13	5	18
RS-49	1	12	458	514	972	97	97	14	5	19
RS-49	1	15	458	583	1041	97	97	14	6	20
RS-49	1.5	16	498	606	1104	97	97	15	6	21
RS-49	1.5	18	498	652	1150	97	97	15	6	21
RS-49	2	20	590	739	1329	97	97	22	7	29
RS-49	2	22	590	815	1405	97	97	22	7	29
RS-49	2	25	590	874	1464	97	97	22	8	30
RS-49	3	27	705	919	1624	97	97	27	8	35
RS-49	3	28	705	942	1647	97	97	27	9	36
RS-49	3	30	705	987	1692	97	97	27	10	37
RT-49	1	12	458	514	972	97	97	14	5	19
RT-49	1	15	458	583	1041	97	97	14	6	20
RT-49	1.5	16	498	606	1104	97	97	15	6	21
RT-49	1.5	18	498	652	1150	97	97	15	6	21
RT-49	2	20	590	739	1329	97	97	22	7	29
RT-49	2	22	590	815	1405	97	97	22	7	29
RT-49	2	25	590	874	1464	97	97	22	8	30
RT-49	3	27	620	919	1539	97	97	24	8	32
RT-49	3	28	620	942	1562	97	97	24	9	33
RT-49	3	30	620	987	1607	97	97	24	10	34



All Dimension are in mm		
A	B	C
±20	±10	±10

Performance Curves • Model: RSA-49, RS-49, RT-49



Outlet: 32 mm • Max OD: 98 mm • Min Bore: 100 mm

RSA-49 upto 1.5 HP & upto 18 STG

RS-49 upto 3 HP & upto 30 STG

RT-49 upto 3 HP & upto 30 STG

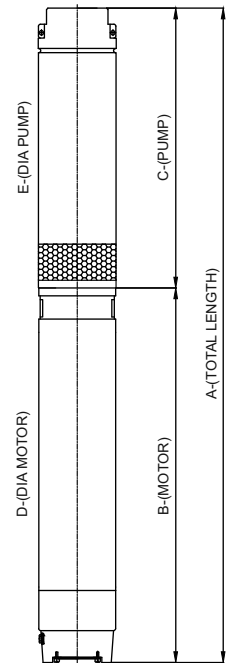
Performance Chart • Model: RSA-49A, RS-49A, RT-49A

Outlet Size 1.25" (32 mm)

MODEL: RSA-49A		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	12	16	22	25	35	40	50
10	0.50		60	57	49	47	39	32	19
11	0.50		65	62	54	52	43	35	21
12	0.75		71	68	59	57	47	38	23
15	0.75		89	85	74	71	58	48	29
16	1.00		95	91	79	76	62	51	30
18	1.00		107	102	89	85	70	57	34
20	1.50		119	113	99	95	78	64	38
22	1.50		131	125	108	104	85	70	42
MODEL: RS-49A			DISCHARGE IN LPM						
STG.	H.P.	HEAD IN METERS	12	16	22	25	35	40	50
10	0.50		60	57	49	47	39	32	19
11	0.50		65	62	54	52	43	35	21
12	0.75		71	68	59	57	47	38	23
15	0.75		89	85	74	71	58	48	29
16	1.00		95	91	79	76	62	51	30
18	1.00		107	102	89	85	70	57	34
20	1.50		119	113	99	95	78	64	38
22	1.50		131	125	108	104	85	70	42
27	2.00		161	153	133	128	105	86	51
MODEL: RT-49A		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN MTRS	12	16	22	25	35	40	50
16	1.0		95	91	79	76	62	51	30
18	1.0		107	102	89	85	70	57	34
20	1.5		119	113	99	95	78	64	38
22	1.5		131	125	108	104	85	70	42
27	2.0		161	153	133	128	105	86	51

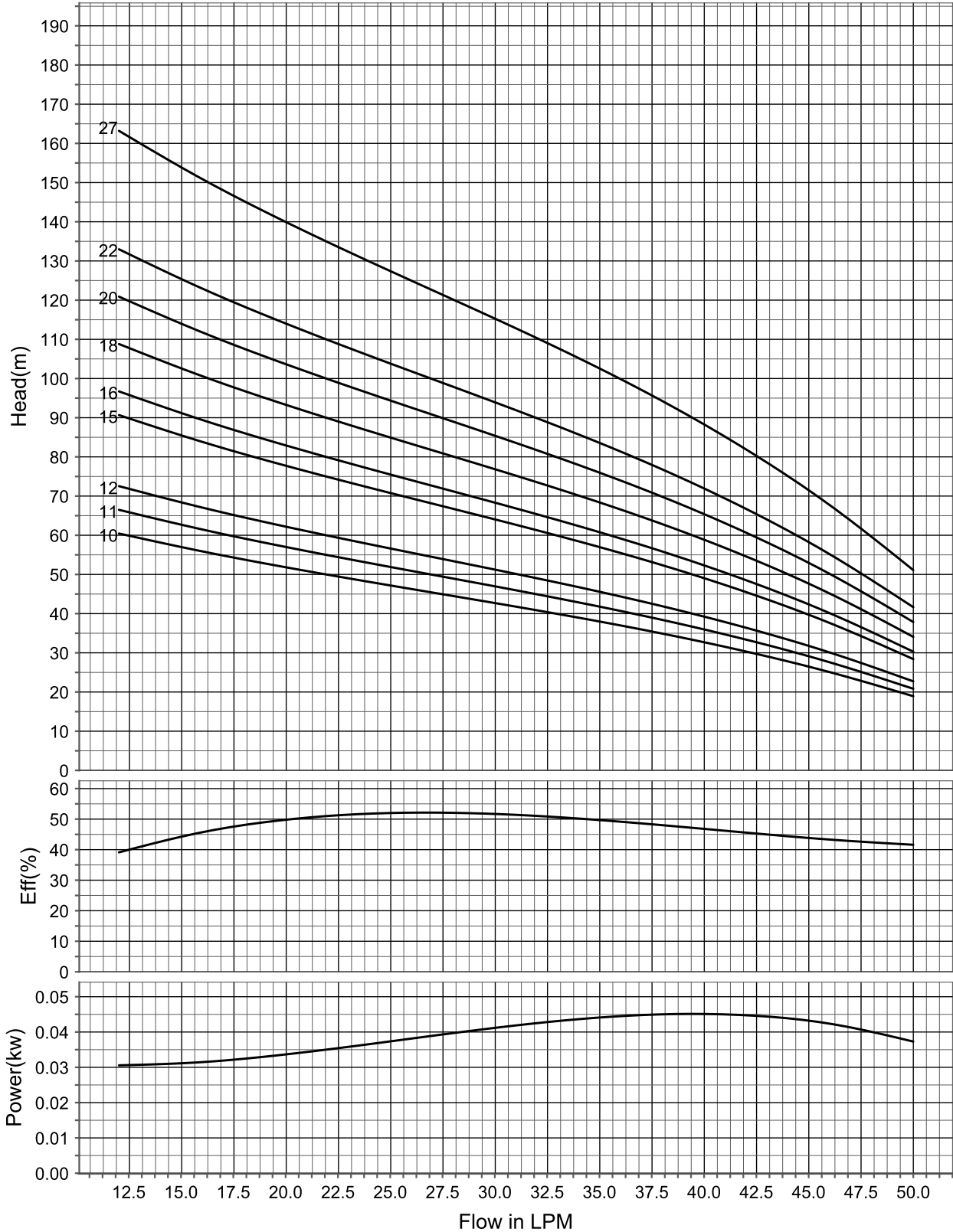
GA Drawing Dimension • Model: RSA-49A, RS-49A, RT-49A

Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
RSA-49A	0.5	10	418	438	856	97	97	11	4	15
RSA-49A	0.5	11	418	461	879	97	97	11	5	16
RSA-49A	0.75	12	443	514	957	97	97	13	5	18
RSA-49A	0.75	15	443	583	1026	97	97	13	6	19
RSA-49A	1	16	458	606	1064	97	97	14	6	20
RSA-49A	1	18	458	652	1110	97	97	14	6	20
RSA-49A	1.5	20	498	698	1196	97	97	15	7	22
RSA-49A	1.5	22	498	744	1242	97	97	15	7	22
RS-49A	0.5	10	418	438	856	97	97	11	4	15
RS-49A	0.5	11	418	461	879	97	97	11	5	16
RS-49A	0.75	12	443	514	957	97	97	13	5	18
RS-49A	0.75	15	443	583	1026	97	97	13	6	19
RS-49A	1	16	458	606	1064	97	97	14	6	20
RS-49A	1	18	458	652	1110	97	97	14	6	20
RS-49A	1.5	20	498	698	1196	97	97	15	7	22
RS-49A	1.5	22	498	774	1272	97	97	15	7	22
RS-49A	2	27	590	919	1509	97	97	22	8	30
RT-49A	1	16	548	606	1154	97	97	14	6	20
RT-49A	1	18	548	652	1200	97	97	14	6	20
RT-49A	1.5	20	498	698	1196	97	97	15	7	22
RT-49A	1.5	22	498	774	1272	97	97	15	7	22
RT-49A	2	27	590	919	1509	97	97	22	8	30



All Dimension are in mm		
A	B	C
±20	±10	±10

Performance Curves • Model: RSA-49A, RS-49A, RT-49A



Outlet: 32 mm • Max OD: 98 mm • Min Bore: 100 mm

RSA-49A upto 1.5 HP & upto 22 STG
RS-49A upto 2 HP & upto 27 STG
RT-49A upto 2 HP & upto 27 STG

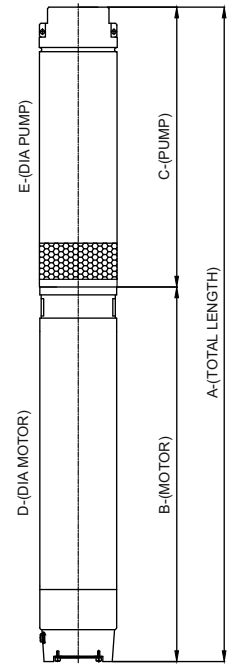
Performance Chart • Model: MS-412, MT-412

Outlet Size 2" (50 mm)

MODEL: MS-412		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	77	99	136	152	186	216	241
6	1.5		29	27	23	21	16	11	6
8	2.0		38	35	31	28	21	14	8
10	3.0		48	44	38	35	27	18	10
12	3.0		57	53	46	42	32	21	12
14	5.0		67	62	54	49	37	25	14
15	5.0		71	66	57	53	40	26	15
16	5.0		76	71	61	56	43	28	16
18	5.0		86	80	69	63	48	32	18
20	5.0		95	88	77	70	53	35	20
MODEL: MT-412		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	77	99	136	152	186	216	241
5	1.5		24	22	19	18	13	9	5
6	1.5		29	27	23	21	16	11	6
8	2.0		38	35	31	28	21	14	8
10	3.0		48	44	38	35	27	18	10
12	3.0		57	53	46	42	32	21	12
14	4.0		67	62	54	49	37	25	14
15	4.0		71	66	57	53	40	26	15
16	4.0		76	71	61	56	43	28	16
18	5.0		86	80	69	63	48	32	18
20	5.0	95	88	77	70	53	35	20	

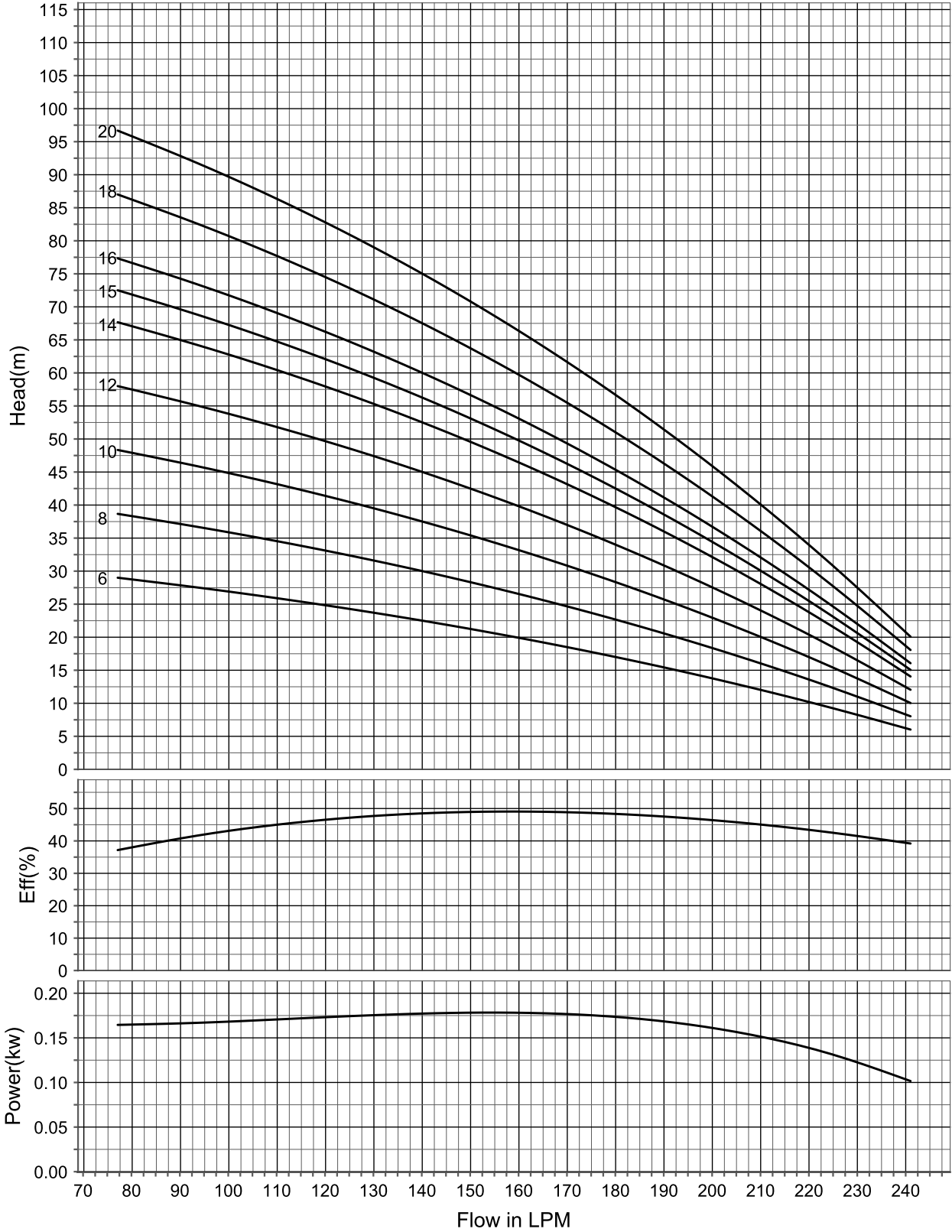
GA Drawing Dimension • Model: MS-412, MT-412

Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
MS-412	1.5	6	498	509	1007	97	97	15	4	19
MS-412	2	8	590	663	1253	97	97	22	5	27
MS-412	3	10	705	769	1474	97	97	27	7	34
MS-412	3	12	705	875	1580	97	97	27	9	36
MS-412	5	14	745	981	1726	97	97	29	10	39
MS-412	5	15	745	1033	1778	97	97	29	11	40
MS-412	5	16	745	1086	1831	97	97	29	12	41
MS-412	5	18	745	1292	2037	97	97	29	13	42
MS-412	5	20	745	1298	2043	97	97	29	15	44
MT-412	1.5	5	498	455	953	97	97	15	4	19
MT-412	1.5	6	498	508	1006	97	97	15	5	20
MT-412	2	8	590	662	1252	97	97	22	5	27
MT-412	3	10	620	768	1388	97	97	24	7	31
MT-412	3	12	620	874	1494	97	97	24	9	32
MT-412	4	14	670	980	1650	97	97	25	10	35
MT-412	4	15	670	1033	1703	97	97	25	11	36
MT-412	4	16	670	1086	1756	97	97	25	12	37
MT-412	5	18	705	1192	1897	97	97	27	13	40
MT-412	5	20	705	1298	2003	97	97	27	15	42



All Dimension are in mm		
A	B	C
±20	±10	±10

Performance Curves • Model: MS-412, MT-412



Outlet: 50 mm • Max OD: 98 mm • Min Bore: 100 mm

MS-412 upto 5 HP & upto 20 STG

MT-412 upto 5 HP & upto 20 STG

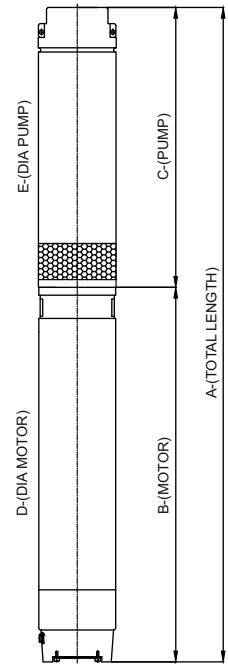
Performance Chart • Model: MS-418, MT-418

Outlet Size 2" (50 mm)

MODEL: MS-418		DISCHARGE IN LPM						
STG.	H.P.	166	200	250	300	350	366	400
5	2.0	23	19	17	12	8	6	4
8	3.0	36	30	27	19	13	9	7
9	3.0	41	34	30	21	15	10	8
10	5.0	45	38	34	24	16	11	9
12	5.0	54	45	41	29	20	14	11
14	5.0	63	53	47	33	23	16	12
MODEL: MT-418		DISCHARGE IN LPM						
STG.	H.P.	166	200	250	300	350	366	400
5	2.0	23	19	17	12	8	6	4
8	3.0	36	30	27	19	13	9	7
9	3.0	41	34	30	21	15	10	8
10	4.0	45	38	34	24	16	11	9
12	4.0	54	45	41	29	20	14	11
14	5.0	63	53	47	33	23	16	12
15	6.0	68	56	51	36	24	17	13
16	6.0	72	60	54	38	26	18	14

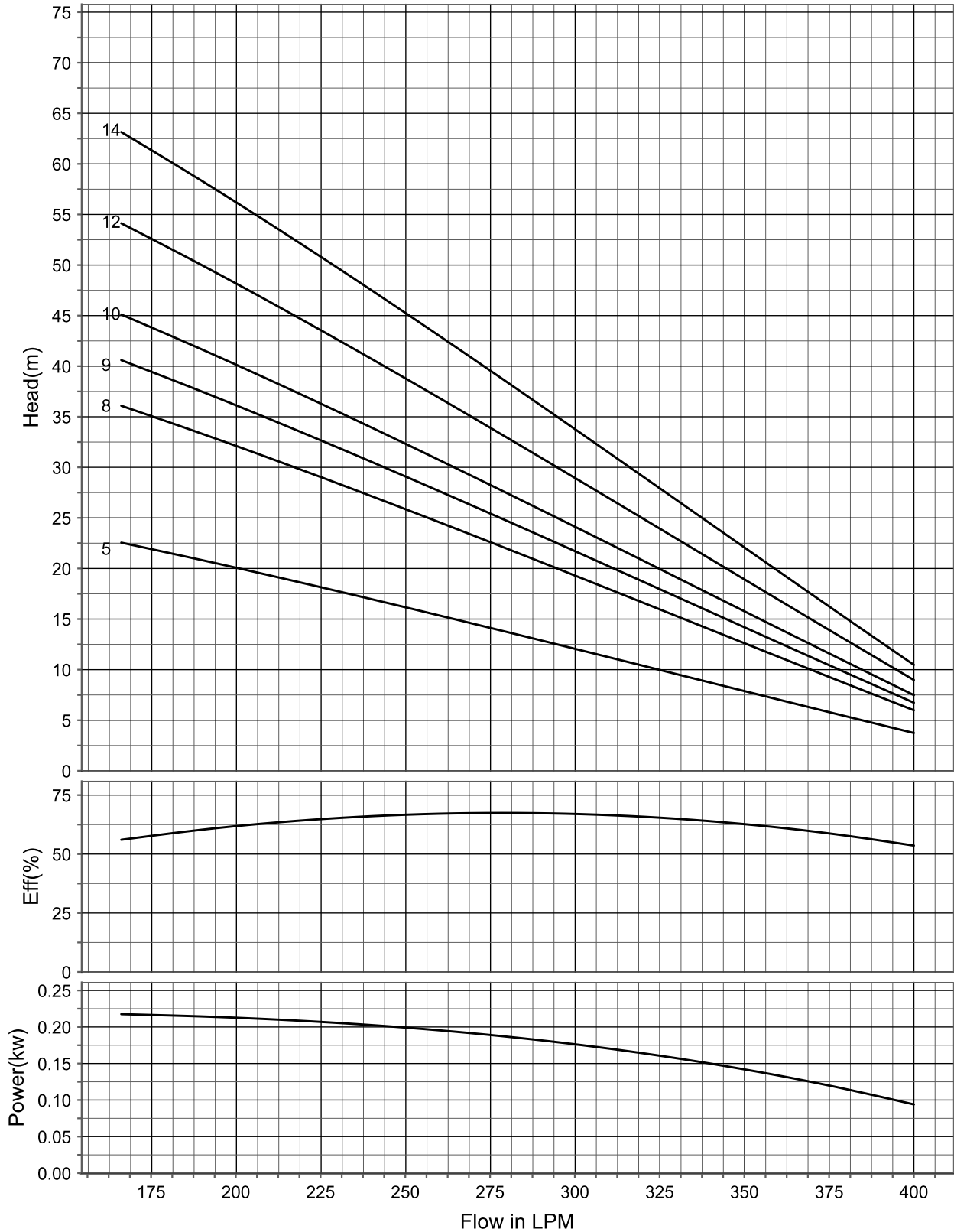
GA Drawing Dimension • Model: MS-418, MT-418

Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
MS-418	2	5	590	622	1212	97	97	22	6	28
MS-418	3	8	705	847	1552	97	97	27	9	36
MS-418	3	9	705	922	1627	97	97	27	9	36
MS-418	5	10	745	997	1742	97	97	29	11	40
MS-418	5	12	745	1147	1892	97	97	29	12	41
MS-418	5	14	745	1297	2042	97	97	29	12	41
MT-418	2	5	590	622	1212	97	97	22	6	28
MT-418	3	8	620	847	1467	97	97	24	9	33
MT-418	3	9	620	922	1542	97	97	24	9	33
MT-418	4	10	670	997	1667	97	97	25	11	36
MT-418	4	12	670	1147	1817	97	97	25	12	37
MT-418	5	14	705	1297	2002	97	97	27	12	39
MT-418	6	15	745	1372	2117	97	97	30	13	43
MT-418	6	16	745	1447	2192	97	97	30	14	44



All Dimension are in mm		
A	B	C
±20	±10	±10

Performance Curves • Model: MS-418, MT-418



Outlet: 50 mm • Max OD: 98 mm • Min Bore: 100 mm

MS-418 upto 5 HP & upto 14 STG

MT-418 upto 6 HP & upto 16 STG

Performance Chart • Model: MS-419, MT-419

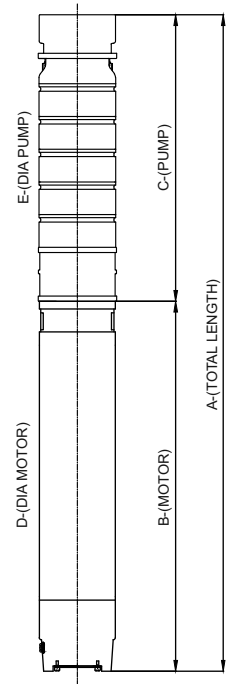
Outlet Size 2.5" (65 mm)

MODEL: MS-419		DISCHARGE IN LPM						
STG.	H.P.	125	200	255	305	350	410	460
4	3.0	20	19	18	15	14	12	11
5	3.0	25	24	22	19	17	15	14
6	3.0	30	29	26	23	20	18	17
7	3.0	35	33	31	26	24	21	19
8	5.0	40	38	35	30	27	24	22
9	5.0	45	43	39	34	30	27	25
10	5.0	50	48	44	38	34	30	28

MODEL: MT-419		DISCHARGE IN LPM						
STG.	H.P.	125	200	255	305	350	410	460
4	3.0	20	19	18	15	14	12	11
5	3.0	25	24	22	19	17	15	14
6	3.0	30	29	26	23	20	18	17
7	3.0	35	33	31	26	24	21	19
8	4.0	40	38	35	30	27	24	22
10	5.0	50	48	44	38	34	30	28

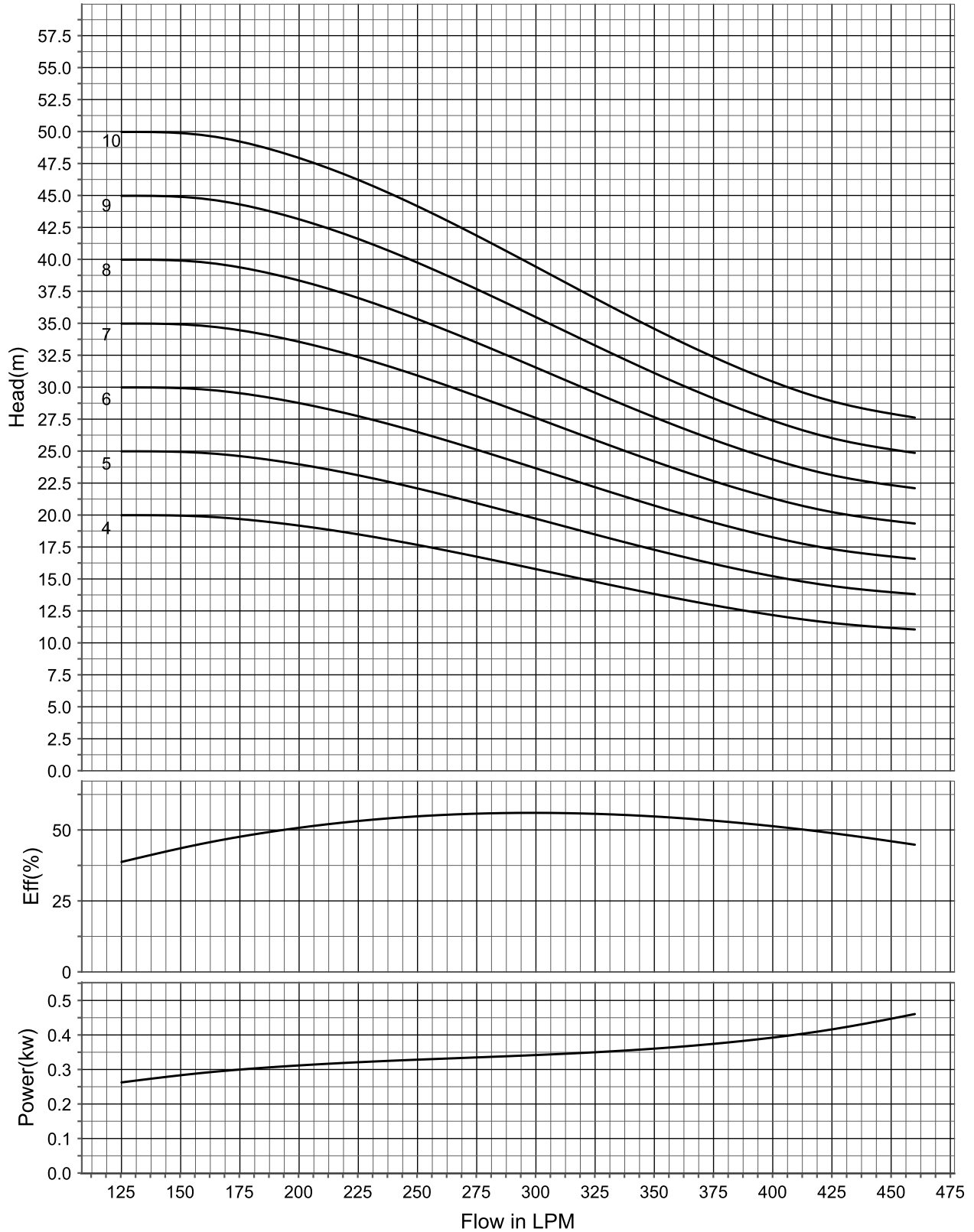
GA Drawing Dimension • Model: MS-419, MT-419

Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
MS-419	3	4	705	569	1274	97	97	27	13	40
MS-419	3	5	705	644	1349	97	97	27	14	41
MS-419	3	6	705	719	1424	97	97	27	14	41
MS-419	3	7	705	794	1499	97	97	27	15	42
MS-419	5	8	745	869	1614	97	97	29	17	46
MS-419	5	9	745	944	1689	97	97	29	18	47
MS-419	5	10	745	1019	1764	97	97	29	19	48
MT-419	3	4	620	569	1189	97	97	24	13	37
MT-419	3	5	620	644	1264	97	97	24	14	38
MT-419	3	6	620	719	1339	97	97	24	14	38
MT-419	3	7	620	794	1414	97	97	24	15	39
MT-419	4	8	670	869	1539	97	97	25	17	42
MT-419	5	9	705	944	1649	97	97	27	18	45



All Dimension are in mm		
A	B	C
±20	±10	±10

Performance Curves • Model: MS-419, MT-419



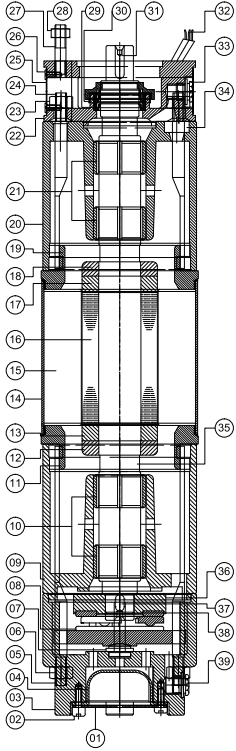
Outlet: 65 mm • Max OD: 98 mm • Min Bore: 100 mm

MS-419 upto 5 HP & upto 10 STG

MT-419 upto 5 HP & upto 10 STG



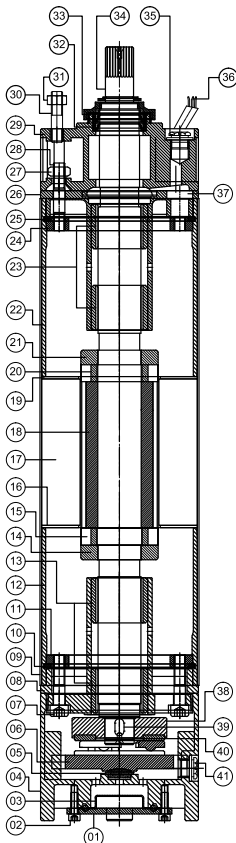
Cross Section - Motor (Standard)



SR.	DESCRIPTION	MATERIAL
1	BASE PLATE	M.S.
2	M5 SCREW BASE PLATE	S.S.
3	MOTOR BASE	C.I IS-210 FG 200
4	RUBBER CUP	NITRILE RUBBER
5	T- BOLT LOWER SIDE	M.S.
6	T- BOLT HEX NUT LOWER SIDE	S.S.
7	ROCKER SUPPORT	S.S.
8	TILTING BEARING	S.S. -C.I
9	LOWER HOUSING	C.I IS-210 FG 200
10	LOWER BEARING BUSH	LTB-4
11	LOWER SIDE STATOR RING	M.S
12	LOWER BALANCE RING	C.I IS-210 FG 200
13	LOWER SIDE COPPER RING	COPPER
14	STATOR TUBE	S.S.
15	STATOR STAMPING	CRNO
16	ROTOR STAMPING	CRNO
17	UPPER SIDE COPPER RING	COPPER
18	UPPER BALANCE RING	C.I IS-210 FG 200
19	UPPER SIDE STATOR RING	M.S.
20	UPPER HOUSING	C.I IS-210 FG 200

SR.	DESCRIPTION	MATERIAL
21	UPPER BEARING BUSH	LTB-4
22	CONNECTING PIECE	CM IS-210 FG 200
23	T- BOLT HEX NUT UPPER SIDE	S.S.
24	T- BOLT UPPER SIDE	M.S.
25	CONNECTING PIECE STRAINER	S.S.
26	M5 SCREW FOR STRAINER	S.S.
27	STUD / WASHER FOR CONNECTING PIECE	S.S.
28	HEX NUT FOR CONNECTING PIECE STUD	S.S.
29	OIL SEAL	STANDARD
30	SAND GUARD	RUBBER -S.S.
31	COUPLING KEY	S.S
32	CABLE	STANDARD
33	DRAIN PLUG	BRASS
34	RUBBER GROMMET	RUBBER
35	ROTOR COMPLETE	
36	REVOLVING PLATE	CARBON - C.I.
37	REVOLVING PLATE KEY	S.S.
38	REVOLVING PLATE CIRCLIP	SPRING STEEL
39	MOTOR BASE DRAIN PLUG	BRASS

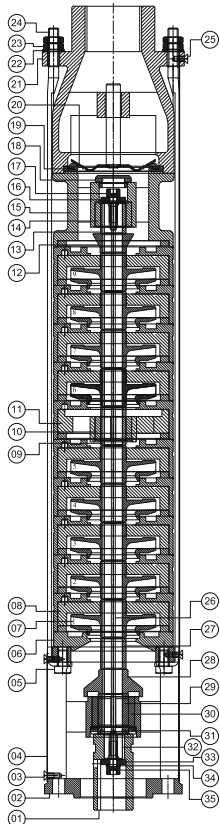
Cross Section - Motor (Export)



SR.	DESCRIPTION	MATERIAL
1	MOTOR BASE COVER	S.S.
2	ALLEN KEY BOLT FOR MOTOR BASE	S.S.
3	RUBBER CUP	NITRILE RUBBER
4	MOTOR BASE	S.S
5	ROCKER SUPPORT	S.S.
6	TILTING BEARING	S.S. - C.I
7	ALLEN KEY BOLT FOR LOWER FLANGE	S.S.
8	LOWER HOUSING	S.S.
9	STATOR TUBE	S.S.
10	STATOR CIRCLIP LOWER	M.S.
11	FLANGE LOWER SIDE	S.S.
12	LOWER SIDE COLLAR	S.S.
13	LOWER BEARING BUSH	LTB-4
14	LOWER BALANCE RING	C.I IS- 210 FG 200
15	LOWER SIDE COPPER RING	COPPER
16	LOWER SIDE END	M.S
17	STATOR STAMPING	CRNO
18	ROTOR STAMPING	CRNO
19	UPPER SIDE END	M.S
20	UPPER SIDE COPPER RING	COPPER
21	UPPER BALANCE RING	C.I IS- 210 FG 200

SR.	DESCRIPTION	MATERIAL
22	UPPER SIDE COLLAR	S.S
23	UPPER BEARING BUSH	LTB-4
24	FLANGE UPPER SIDE	S.S
25	STATOR CIRCLIP UPPER	M.S.
26	UPPER HOUSING	S.S
27	HEX NUT FOR LOWER FLANGE FITTED	S.S.
28	STUD FOR UPPER FLANGE FITTED	S.S.
29	CONNECTING PIECE	S.S.
30	STUD FOR CONNECTING	S.S.
31	STUD FOR CONNECTING PIECE	S.S.
32	OIL SEAL	STANDARD
33	SAND GUARD SEAT	RUBBER -
34	ROTOR COMPLETE - SPLINES	S.S.
35	DRAIN PLUG	BRASS
36	CABLE	STANDARD
37	RUBBER GROMMET	RUBBER
38	REVOLVING PLATE	CARBON -
39	REVOLVING PLATE KEY	S.S.
40	REVOLVING PLATE CIRCLIP	SPRING
41	MOTOR BASE DRAIN PLUG	BRASS

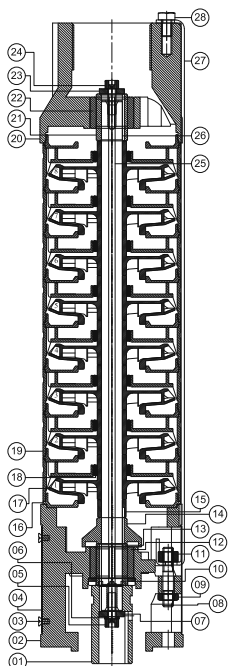
Cross Section - Pump R-61 to R-65



SR.	DESCRIPTION	MATERIAL
1	PUMP COUPLING	S.S. 410
2	ADOPTER	C.I IS-210 FG 200
3	M5 SCREW FOR STRAINER	S.S.
4	SUCTION STRAINER FOR ADOPTER	S.S. - 304
5	M 10 HEX BOLT FOR ADOPTER	M.S.
6	ADOPTER PLATE	C.I IS- 210 FG 200
7	IMPELLER	S.S.
8	STAGE CASING	C.I IS-210 FG 200
9	MIDDLE STAGE SLEEVE	S.S
10	MIDDLE STAGE BEARING BUSH	L.T.B-4
11	GUIDE VANE	NORYL
12	UPPER SAND GUARD	C.I IS-210 FG 200
13	SAND GUARD SLEEVE TOP	S.S.
14	DISCHARGE OUT-LET BEARING BUSH	L.T.B-4
15	DISCHARGE OUT-LET	C.I IS-210 FG 200
16	WASHER FOR TOP SLEEVE	BRASS
17	M8 ALLEN SCREW FOR CPL & WASHER	S.S.
18	ADJUSTING CAP	C.I IS-210 FG 200

SR.	DESCRIPTION	MATERIAL
19	"O" RING FOR N.R.V.	NITRILE RUBBER
20	FLAP WITH STM.	S.S.
21	N.R.V. BODY	C.I IS- 210 FG 200
22	L TYPE BOLT WASHER	S.S.
23	HEX NUT	S.S.
24	L TYPE BOLT	M.S.
25	MS SCREW FOR & CABLE CLIPS	S.S.
26	PUMP SHAFT KEY	S.S. 410
27	SAND GUARD SLEEVE	S.S. 410
28	PUMP SAND GUARD	C.I IS- 210 FG 200
29	ADOPTER SLEEVE	S.S.410
30	ADOPTER BEARING BUSH	L.T.B-4
31	COUNTER THRUST BEARING	L.T.B-4
32	PUMP SHAFT	S.S. 410
33	WASHER FOR COUPLING	S.S. 410
34	SPRING WASHER	M.S.
35	M8 ALLEN SCREW FOR CPL & WASHER	S.S.

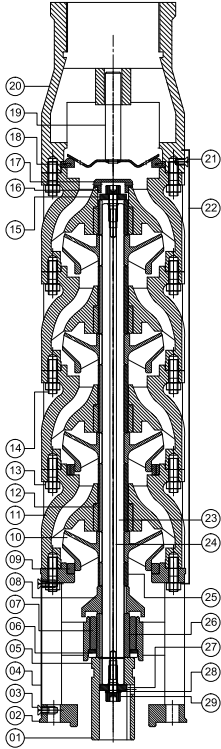
Cross Section - Pump RHS-62K to RHS-67



SR.	DESCRIPTION	MATERIAL
1	PUMP COUPLING	S.S. 410
2	ADOPTER	C.I IS-210 FG 200
3	M5 SCREW FOR STRAINER	S.S.
4	SUCTION STRAINER FOR ADOPTER	S.S. - 304
5	M8 ALLEN SCREW FOR CPL & WASHER	S.S.
6	SPRING WASHER	M.S.
7	WASHER FOR COUPLING	S.S. 410
8	ADOPTER STUD	M.S.
9	HEX NUT	S.S.
10	COUNTER THRUST BEARING	LT.B-4
11	SQUARE NUT	S.S.
12	ADOPTER BEARING BUSH	LT.B-4
13	ADOPTER SLEEVE	S.S. 410
14	PUMP SAND GUARD	C.I IS-210 FG 200

SR.	DESCRIPTION	MATERIAL
15	DISTANCE SLEEVE	S.S.410
16	ADOPTER PLATE	S.S.
17	IMPELLER	S.S.
18	STAGE CASING BUSH	LT.B-4 . NITRILE RUBBER
19	STAGE CASING	S.S.
20	N.R.V. BODY	C.I IS-210 FG 200
21	TOP SLEEVE	S.S. 410
22	N.R.V. BODY BEARING BUSH	LT.B-4
23	WASHER FOR TOP SLEEVE	BRASS
24	M8 ALLEN SCREW FOR CPL & WASHER	S.S.
25	PUMP SHAFT	S.S.410
26	PUMP SHAFT KEY	S.S.
27	PUMP ANGLE	S.S.
28	HEX BOLT	S.S.

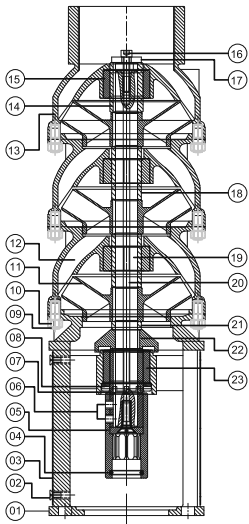
Cross Section - Pump M60 to M65



SR.	DESCRIPTION	MATERIAL
1	PUMP COUPLING	S.S. 410
2	ADOPTER	C.I IS- 210 FG 200
3	M5 SCREW FOR STRAINER	S.S.
4	SUCTION STRAINER FOR ADOPTER	S.S. - 304
5	PUMP COUPLING	S.S. 410
6	COUNTER THRUST BEARING	L.T.B-4
7	ADOPTER BEARING BUSH	L.T.B-4
8	PUMP SAND GUARD	C.I IS-210 FG 200
9	NECK RING	L.T.B-4 - NITRILE RUBBER
10	IMPELLER	S.S
11	STAGE CASING	C.I IS-210 FG 200
12	STAGE CASING BUSH	L.T.B-4 - NITRILE RUBBER
13	HEX NUT	S.S.
14	STUD	S.S.

SR.	DESCRIPTION	MATERIAL
15	WASHER FOR TOP SLEEVE	BRASS
16	M8 ALLEN SCREW FOR CPL & WASHER	S.S.
17	ADJUSTING CAP	C.I IS- 210 FG 200
18	SUPPORTING RING FOR NRV	NITRILE RUBBER
19	NRV FLAP	S.S
20	NRV	C.I IS- 210 FG 200
21	CABLE CLIP & M5 SCREW	S.S.
22	CABLE GUARD	S.S.
23	PUMP SHAFT	S.S.410
24	PUMP SHAFT KEY	S.S.
25	SAND GUARD BASE SLEEVE	S.S.
26	ADOPTER SLEEVE	S.S.410
27	WASHER FOR COUPLING	S.S.410
28	SPRING WASHER	M.S.
29	M8 ALLEN SCREW FOR CPL & WASHER	S.S.

Cross Section - Pump MHS-62 to MHS-65



SR.	DESCRIPTION	MATERIAL
1	ADOPTER	S.S.- 304
2	M5 SCREW FOR STRAINER	S.S.
3	SUCTION STRAINER FOR ADOPTER	S.S.
4	PUMP COUPLING "O" RING	RUBBER
5	PUMP COUPLING	S.S. 410
6	GRUB SCREW	S.S.
7	ADOPTER SLEEVE	S.S.410
8	COUNTER THRUST BEARING	L.T.B-4
9	HEX NUT	S.S.
10	STUD	S.S.
11	IMPELLER	S.S.
12	STAGE CASING	S.S.

SR.	DESCRIPTION	MATERIAL
13	STAGE CASING WITH NRV BODY	S.S.
14	TOP SLEEVE	S.S.
15	BEARING BUSH	L.T.B-4
16	WASHER FOR TOP SLEEVE	BRASS
17	M8 ALLEN SCREW FOR CPL & WASHER	S.S.
18	STAGE SLEEVE	S.S.
19	PUMP SHAFT	S.S.410
20	PUMP SHAFT KEY	S.S.
21	SAND GUARD BASE SLEEVE	S.S.
22	PUMP SAND GUARD	C.I IS-210FG200
23	ADOPTER BEARING BUSH	L.T.B-4

Performance Chart • Model: R-61

Outlet Size 2" (50 mm)

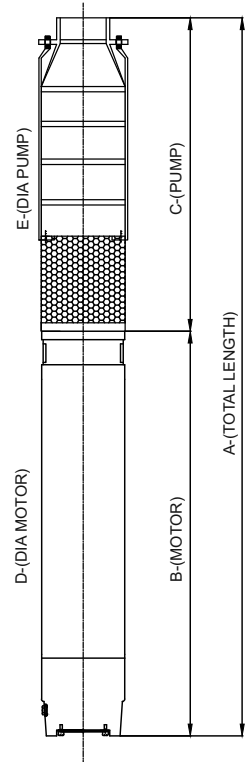
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	28	38	60	72	85	96	106
6	2.0		51	48	45	42	39	36	33
8	3.0		68	64	60	56	52	48	44
10	3.0		85	80	75	70	65	60	55
12	4.0		102	96	90	84	78	72	66
14	4.0		119	112	105	98	91	84	77
15	5.0		128	120	113	105	98	90	83
16	5.0		136	128	120	112	104	96	88
18	6.0		153	144	135	126	117	108	99
20	6.0		170	160	150	140	130	120	110
22	6.0		187	176	165	154	143	132	121
25	7.5		213	200	188	175	163	150	138

All Dimension are in mm

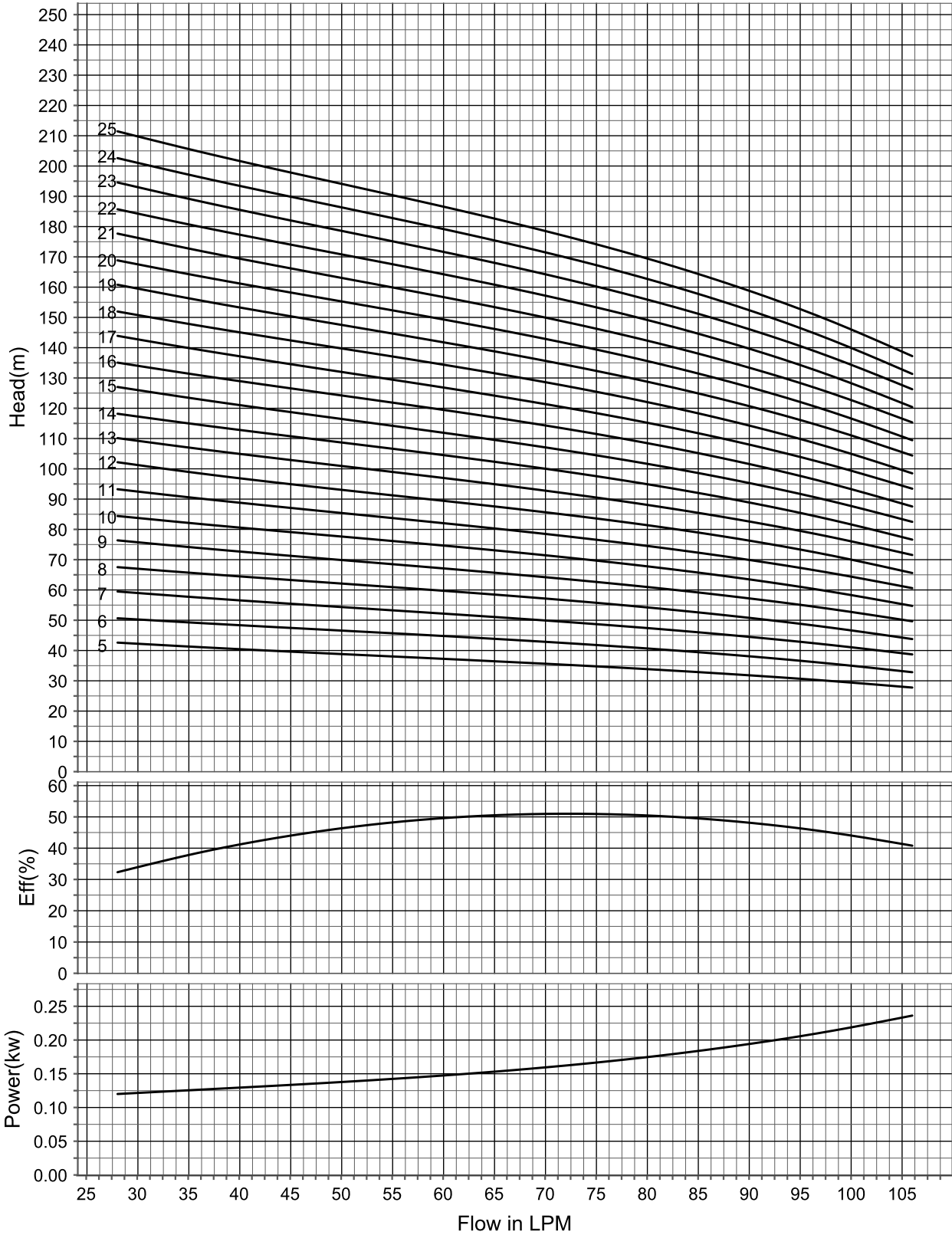
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: R-61

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-61	2.0	6	596	510	1106	142	138	19	39	58
R-61	3.0	8	596	586	1182	142	138	22	39	61
R-61	3.0	10	596	817	1413	142	138	31	39	70
R-61	4.0	12	611	893	1504	142	138	34	41	75
R-61	4.0	14	611	1007	1618	142	138	37	41	78
R-61	5.0	15	631	1045	1676	142	138	40	44	84
R-61	5.0	16	631	1083	1714	142	138	52	44	96
R-61	6.0	18	651	1197	1848	142	138	45	46	91
R-61	6.0	20	651	1273	1924	142	138	50	46	96
R-61	6.0	22	651	1387	2038	142	138	53	46	99
R-61	7.5	25	696	1539	2235	142	138	60	50	110



Performance Curves • Model: R-61



Outlet: 50 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: R-62

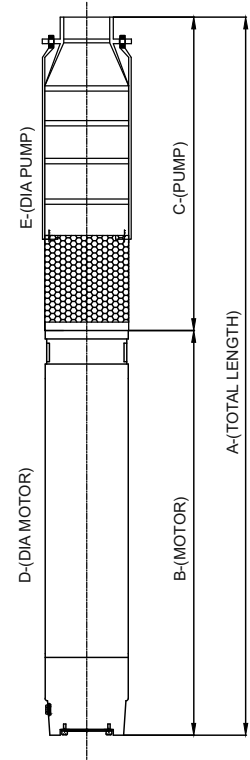
Outlet Size 2" (50 mm)

		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	30	75	100	115	130	140	160
7	3.0		60	56	53	49	46	42	35
9	4.0		77	72	68	63	59	54	45
12	5.0		102	96	90	84	78	72	60
13	6.0		111	104	98	91	85	78	65
14	7.5		119	112	105	98	91	84	70
16	7.5		136	128	120	112	104	96	80
17	10.0		145	136	128	119	111	102	85
18	10.0		153	144	135	126	117	108	90
20	10.0		170	160	150	140	130	120	100
22	10.0		187	176	165	154	143	132	110
25	10.0		213	200	188	175	163	150	125

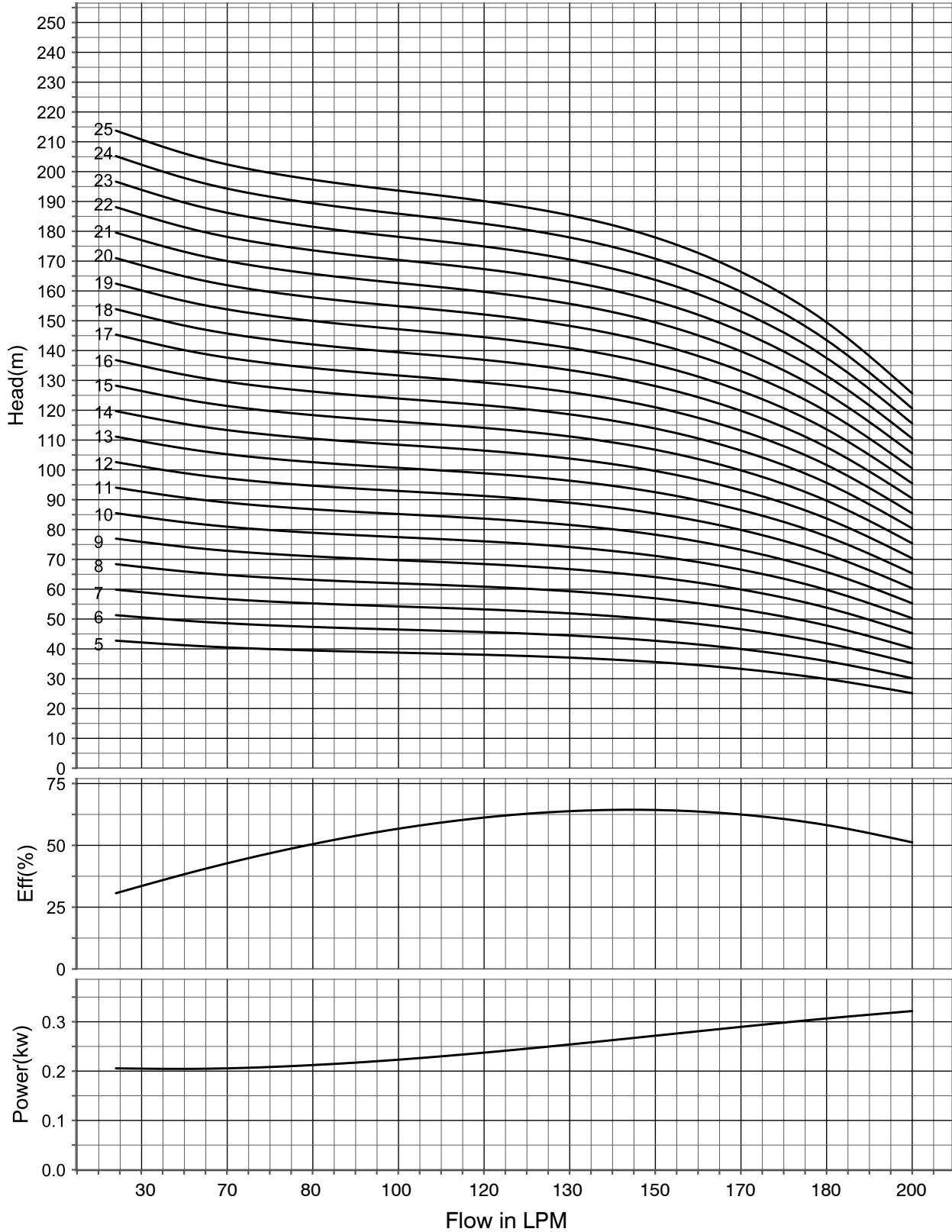
All Dimension are in mm		
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: R-62

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-62	3.0	7	596	548	1144	142	138	20	39	59
R-62	4.0	9	611	779	1390	142	138	29	41	70
R-62	5.0	12	631	893	1524	142	138	34	44	78
R-62	6.0	13	651	969	1620	142	138	37	46	83
R-62	7.5	14	696	1007	1703	142	138	39	50	89
R-62	7.5	16	696	1083	1779	142	138	42	50	92
R-62	10.0	17	751	678	1429	142	138	45	57	102
R-62	10.0	18	751	1197	1948	142	138	47	57	104
R-62	10.0	20	751	1273	2024	142	138	50	57	107
R-62	10.0	22	751	1387	2138	142	138	54	57	110
R-62	10.0	25	751	1539	2290	142	138	60	57	117



Performance Curves • Model: R-62



Outlet: 50 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: R-62 KS

Outlet Size 2" (50 mm)

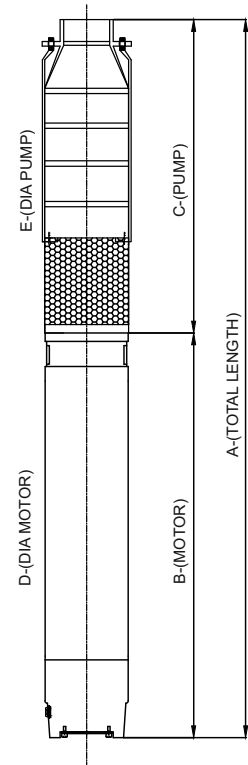
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	60	120	150	170	200	240	270
6	3.0		54	52	46	42	32	22	17
8	4.0		72	70	62	56	42	30	25
9	4.0		81	79	70	63	47	34	29
10	5.0		90	88	77	70	53	38	33
12	6.0		108	105	92	84	63	46	41
13	6.0		117	114	100	91	68	50	45
15	7.5		135	131	116	105	78	58	53
16	7.5		144	140	124	112	82	62	57
18	10.0		162	158	139	126	91	70	65
20	10.0		180	175	154	140	102	78	73
22	10.0		198	193	170	154	116	86	81
25	12.5		225	220	194	175	134	98	93

All Dimension are in mm

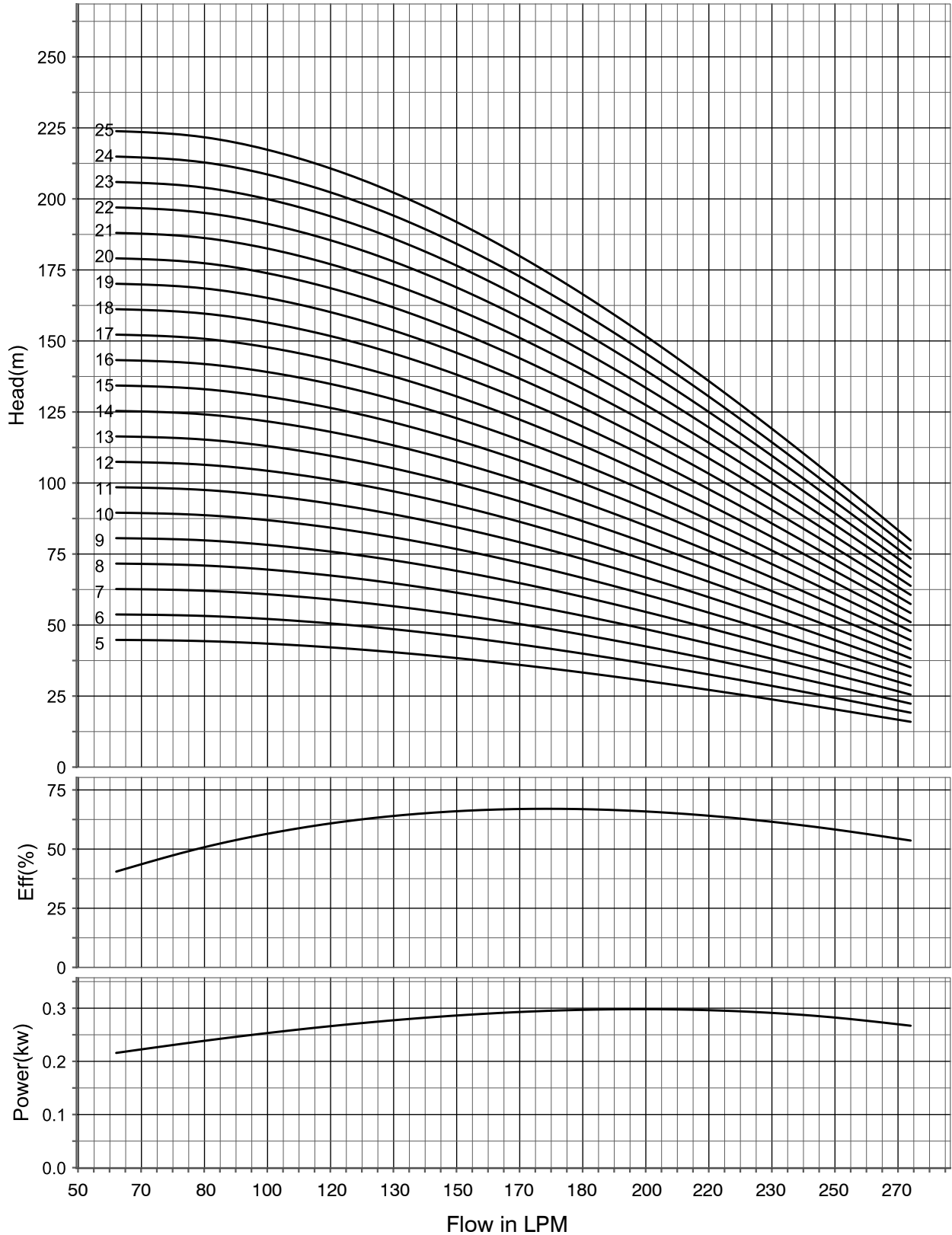
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: R-62 KS

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-62 KS	3.0	6	596	510	1106	142	138	19	39	58
R-62 KS	4.0	8	611	586	1197	142	138	22	41	63
R-62 KS	4.0	9	611	779	1390	142	138	29	41	70
R-62 KS	5.0	10	631	817	1448	142	138	31	44	75
R-62 KS	6.0	12	651	893	1544	142	138	34	46	80
R-62 KS	6.0	13	651	969	1620	142	138	37	46	83
R-62 KS	7.5	15	696	1045	1741	142	138	40	50	90
R-62 KS	7.5	16	696	1083	1779	142	138	42	50	92
R-62 KS	10.0	18	751	1197	1948	142	138	47	57	104
R-62 KS	10.0	20	751	1273	2024	142	138	50	57	107
R-62 KS	10.0	22	751	1387	2138	142	138	53	57	110
R-62 KS	12.5	25	806	1539	2345	142	138	60	65	125



Performance Curves • Model: R-62 KS



Outlet: 50 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: R-62K

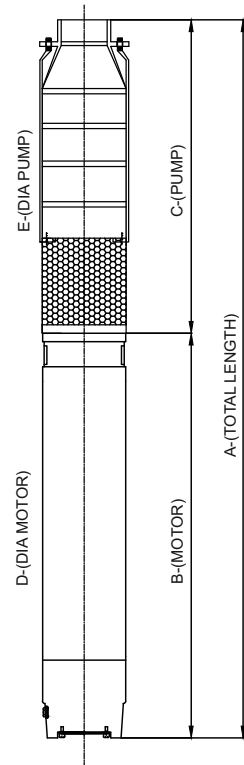
Outlet Size 2.5" (65 mm)

		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	60	120	150	170	200	240	270
6	3.0		54	52	46	42	32	22	17
8	4.0		72	70	62	56	42	30	25
9	4.0		81	79	70	63	47	34	29
10	5.0		90	88	77	70	53	38	33
12	6.0		108	105	92	84	63	46	41
13	6.0		117	114	100	91	68	50	45
15	7.5		135	131	116	105	78	58	53
16	7.5		144	140	124	112	82	62	57
18	10.0		162	158	139	126	91	70	65
20	10.0		180	175	154	140	102	78	73
22	10.0		198	193	170	154	116	86	81
25	12.5		225	220	194	175	134	98	93

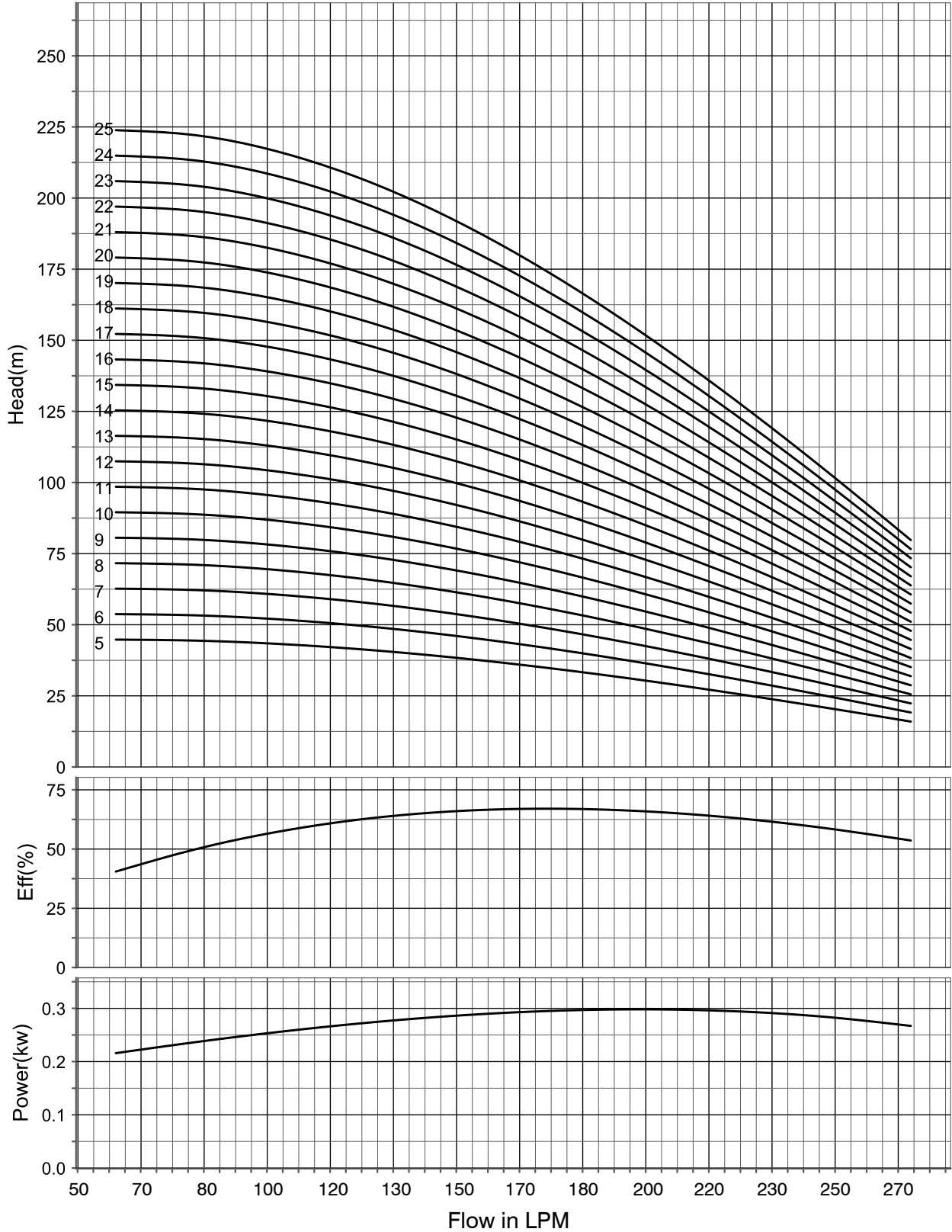
All Dimension are in mm		
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: R-62K

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-62K	3.0	6	596	549	1145	142	141	21	39	60
R-62K	4.0	8	611	639	1250	142	141	25	41	66
R-62K	4.0	9	611	801	1412	142	141	31	41	72
R-62K	5.0	10	631	846	1477	142	141	33	44	77
R-62K	6.0	12	651	936	1587	142	141	37	46	83
R-62K	6.0	13	651	981	1632	142	141	39	46	85
R-62K	7.5	15	696	1071	1767	142	141	43	50	93
R-62K	7.5	16	696	1116	1812	142	141	46	50	96
R-62K	10.0	18	751	1206	1957	142	141	50	57	107
R-62K	10.0	20	751	1296	2047	142	141	54	57	111
R-62K	10.0	22	751	1386	2137	142	141	58	57	115
R-62K	12.5	25	806	1521	2327	142	141	65	65	130



Performance Curves • Model: R-62K



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: R-63

Outlet Size 2" (50 mm)

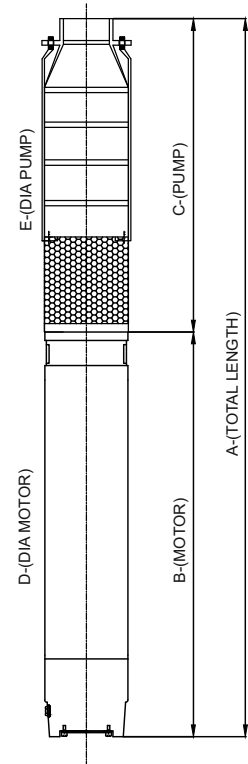
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	100	130	150	180	210	230	250
6	4.0		60	57	54	48	42	36	33
8	5.0		80	76	72	64	56	48	44
10	6.0		100	95	90	80	70	60	55
12	7.5		120	114	108	96	84	72	66
13	7.5		130	124	117	104	91	78	72
15	10.0		150	143	135	120	105	90	83
16	10.0		160	152	144	128	112	96	88
17	10.0		170	162	153	136	119	102	94
18	12.5		180	171	162	144	126	108	99
20	15.0		200	190	180	160	140	120	110
22	15.0		220	209	198	176	154	132	121
25	15.0	250	238	225	200	175	150	138	

All Dimension are in mm

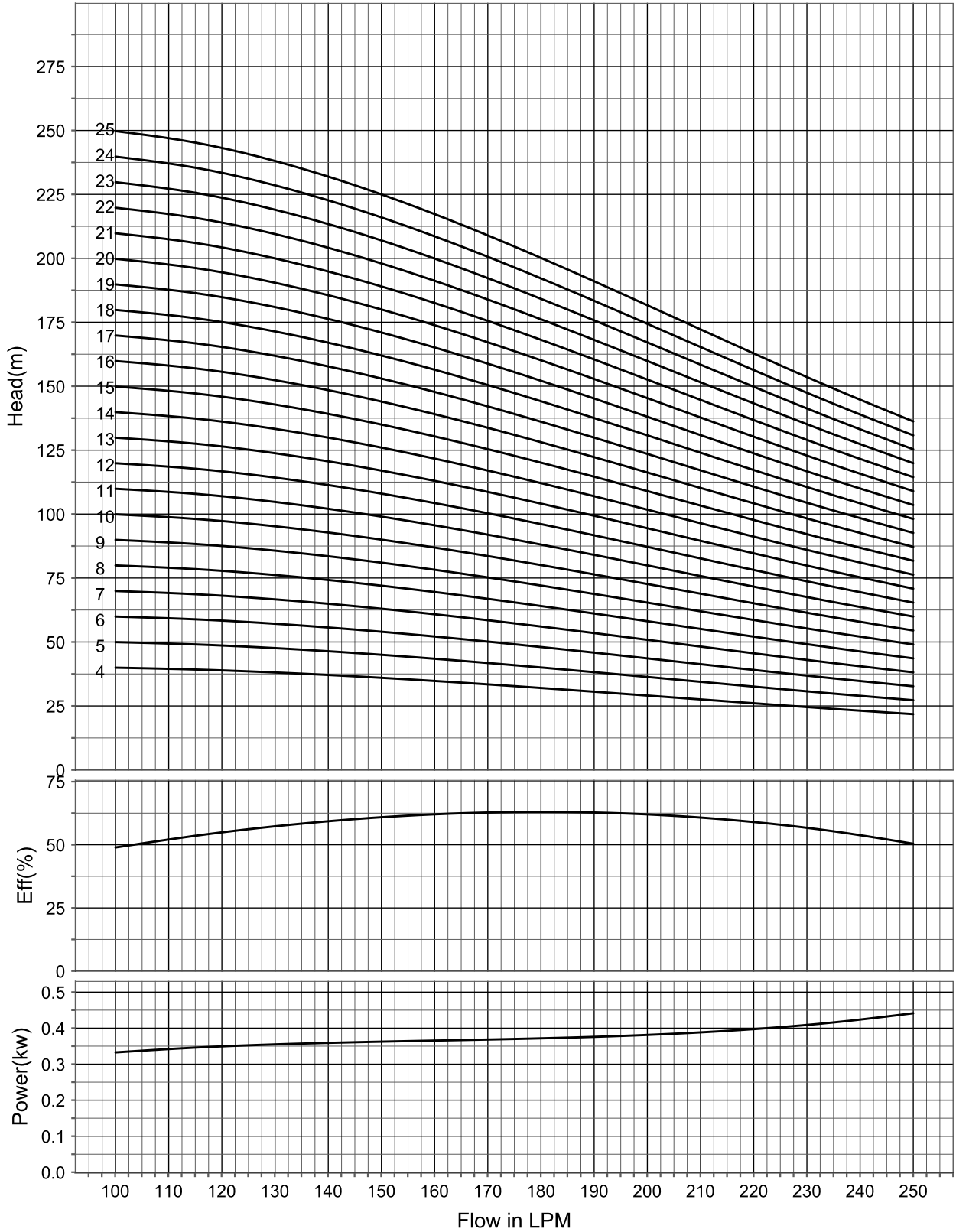
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: R-63

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-63	4.0	6	611	510	1121	142	138	19	41	60
R-63	5.0	8	631	586	1217	142	138	22	44	66
R-63	6.0	10	651	817	1468	142	138	31	46	77
R-63	7.5	12	696	893	1589	142	138	34	50	84
R-63	7.5	13	696	969	1665	142	138	37	50	87
R-63	10.0	15	751	1045	1796	142	138	40	57	97
R-63	10.0	16	751	1083	1834	142	138	42	57	99
R-63	10.0	17	751	678	1429	142	138	45	57	102
R-63	12.5	18	806	1197	2003	142	138	46	65	111
R-63	15.0	20	856	1273	2129	142	138	49	70	119
R-63	15.0	22	856	1387	2243	142	138	52	70	122
R-63	15.0	25	856	1539	2395	142	138	56	70	126



Performance Curves • Model: R-63



Outlet: 50 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: R-63 KS

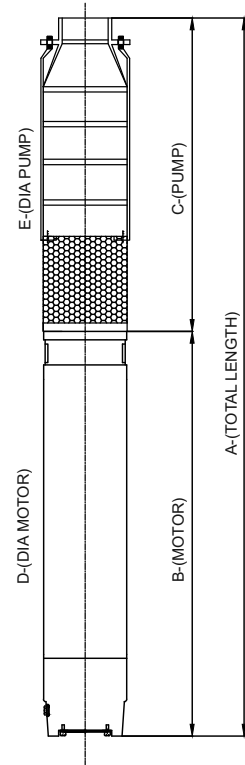
Outlet Size 2" (50 mm)

		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	50	90	130	170	220	275	300
4	3.0		42	40	38	36	32	28	20
5	4.0		53	50	48	45	40	35	25
6	5.0		63	60	57	54	48	42	30
8	6.0		84	80	76	72	64	56	40
10	7.5		105	100	95	90	80	70	50
12	10.0		126	120	114	108	96	84	60
13	10.0		137	130	124	117	104	91	65
15	12.5		158	150	143	135	120	105	75
16	12.5		168	160	152	144	128	112	80
18	15.0		189	180	171	162	144	126	90
20	15.0		210	200	190	180	160	140	100
22	17.5		231	220	209	198	176	154	110
24	20.0	252	240	228	216	192	168	120	
25	22.5	263	250	238	225	200	175	125	

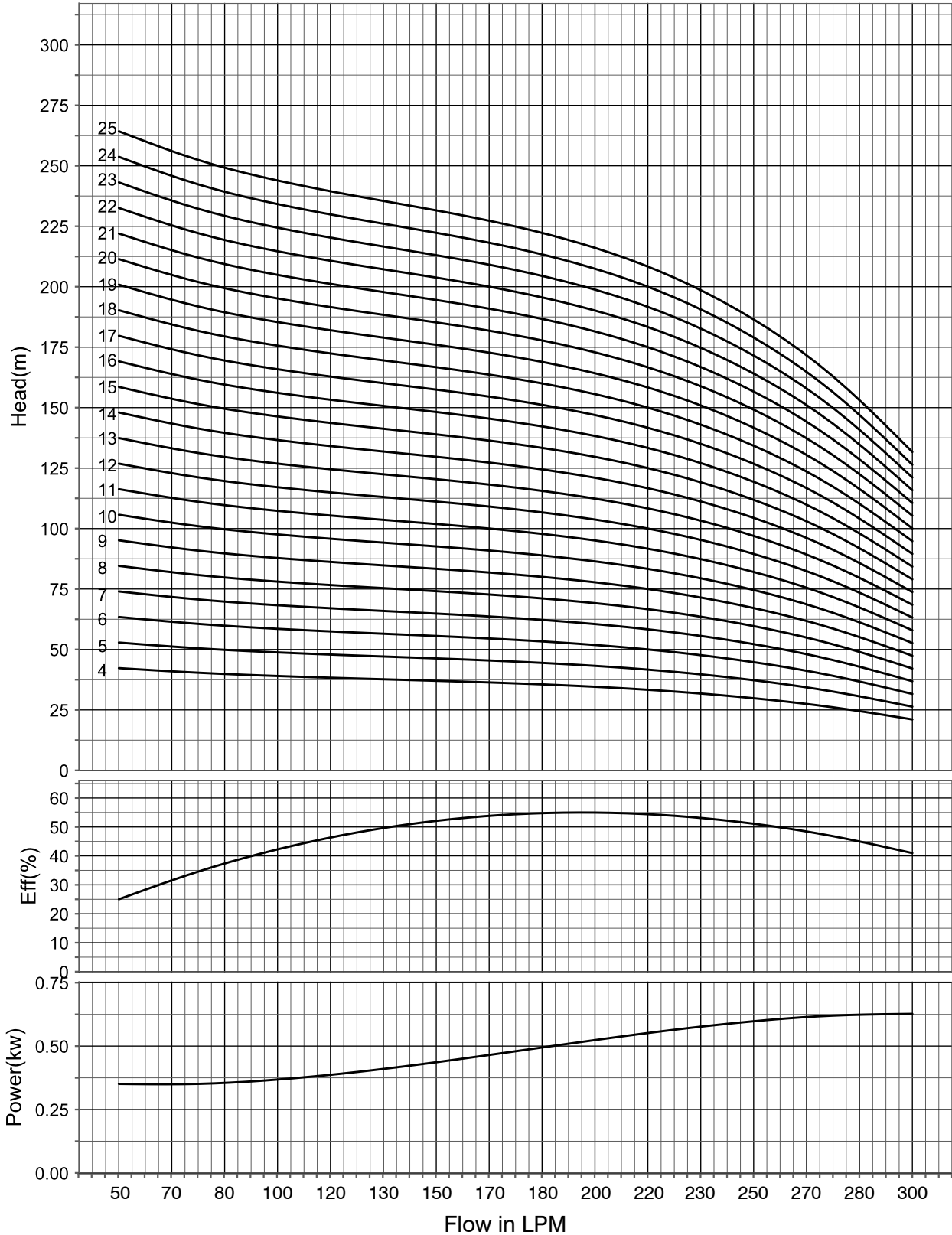
All Dimension are in mm		
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: R-63 KS

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-63 KS	3.0	4	596	434	1030	142	138	16	39	55
R-63 KS	4.0	5	611	472	1083	142	138	17	41	58
R-63 KS	5.0	6	631	510	1141	142	138	19	44	63
R-63 KS	6.0	8	651	586	1237	142	138	22	46	68
R-63 KS	7.5	10	696	817	1513	142	138	31	50	81
R-63 KS	10.0	12	751	893	1644	142	138	34	57	91
R-63 KS	10.0	13	751	969	1720	142	138	37	57	94
R-63 KS	12.5	15	806	1045	1851	142	138	40	65	105
R-63 KS	12.5	16	806	1083	1889	142	138	42	65	107
R-63 KS	15.0	18	856	1197	2053	142	138	47	70	117
R-63 KS	15.0	20	856	1273	2129	142	138	50	70	120
R-63 KS	17.5	22	876	1387	2263	142	138	53	71	124
R-63 KS	20.0	24	926	1464	2390	142	138	56	75	131
R-63 KS	22.5	25	996	1539	2535	142	138	60	79	139



Performance Curves • Model: R-63 KS



Outlet: 50 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: R-63K

Outlet Size 2.5" (65 mm)

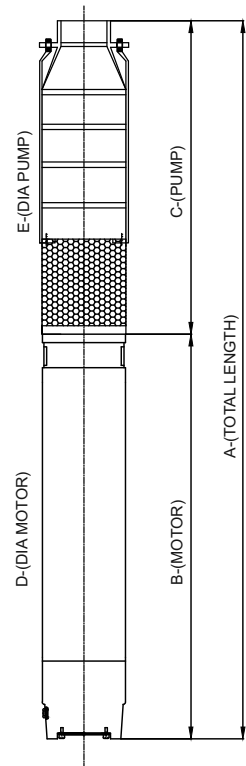
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	50	90	130	170	220	275	300
4	3.0		42	40	38	36	32	28	20
5	4.0		53	50	48	45	40	35	25
6	5.0		63	60	57	54	48	42	30
8	6.0		84	80	76	72	64	56	40
10	7.5		105	100	95	90	80	70	50
12	10.0		126	120	114	108	96	84	60
13	10.0		137	130	124	117	104	91	65
15	12.5		158	150	143	135	120	105	75
16	12.5		168	160	152	144	128	112	80
18	15.0		189	180	171	162	144	126	90
20	15.0		210	200	190	180	160	140	100
22	17.5	231	220	209	198	176	154	110	
24	20.0	252	240	228	216	192	168	120	
25	22.5	263	250	238	225	200	175	125	

All Dimension are in mm

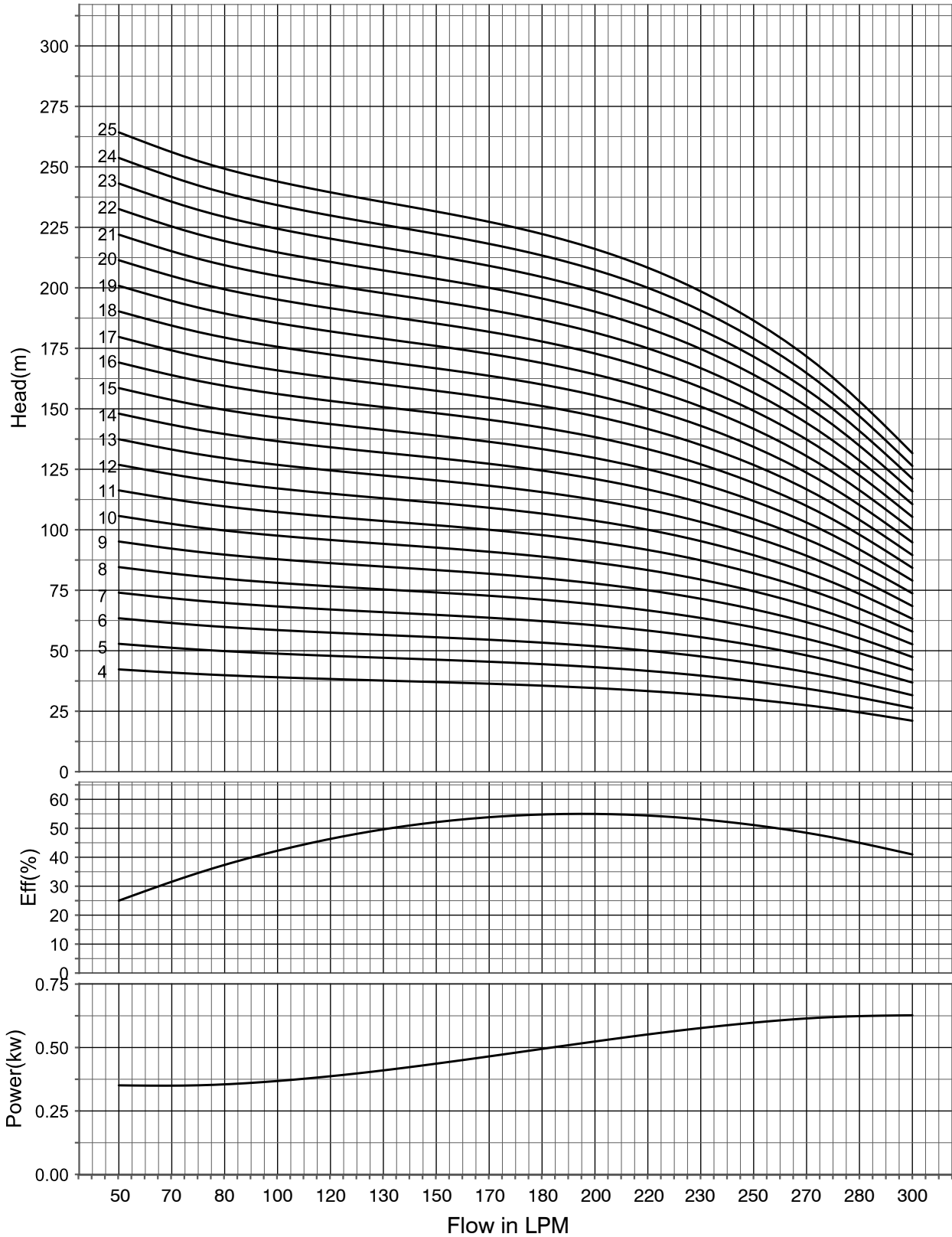
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: R-63K

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-63K	3.0	4	596	459	1055	142	141	21	39	60
R-63K	5.0	6	631	549	1180	142	141	21	44	65
R-63K	6.0	8	651	639	1290	142	141	23	46	69
R-63K	7.5	10	696	846	1542	142	141	33	50	83
R-63K	10.0	12	751	936	1687	142	141	37	57	94
R-63K	10.0	13	751	981	1732	142	141	39	57	96
R-63K	12.5	15	806	1071	1877	142	141	43	65	108
R-63K	12.5	16	806	1116	1922	142	141	46	65	111
R-63K	15.0	18	856	1206	2062	142	141	50	70	120
R-63K	15.0	20	856	1296	2152	142	141	54	70	124
R-63K	17.5	22	876	1386	2262	142	141	58	71	129
R-63K	20.0	24	926	1476	2402	142	141	63	75	138
R-63K	22.5	25	996	1521	2517	142	141	65	79	144



Performance Curves • Model: R-63K



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: R-65K

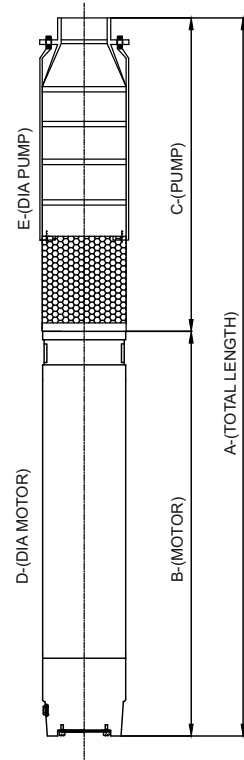
Outlet Size 2.5" (65 mm)

		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	110	185	230	265	300	320	360
3	3.0		32	30	29	27	26	24	21
4	4.0		42	40	38	36	34	32	28
5	5.0		53	50	48	45	43	40	35
6	6.0		63	60	57	54	51	48	42
7	7.5		74	70	67	63	60	56	49
8	7.5		84	80	76	72	68	64	56
10	10.0		105	100	95	90	85	80	70
12	12.5		126	120	114	108	102	96	84
13	12.5		135	128	122	115	109	102	89
14	15.0		147	140	133	126	119	112	98
15	15.0		158	150	143	135	128	120	105
16	17.5		168	160	152	144	136	128	112
17	17.5		179	170	162	153	145	136	119
20	20.0		210	200	190	180	170	160	140
22	22.5		231	220	209	198	187	176	154
23	22.5	242	230	219	207	196	184	161	
25	25.0	261	250	237	225	213	200	175	

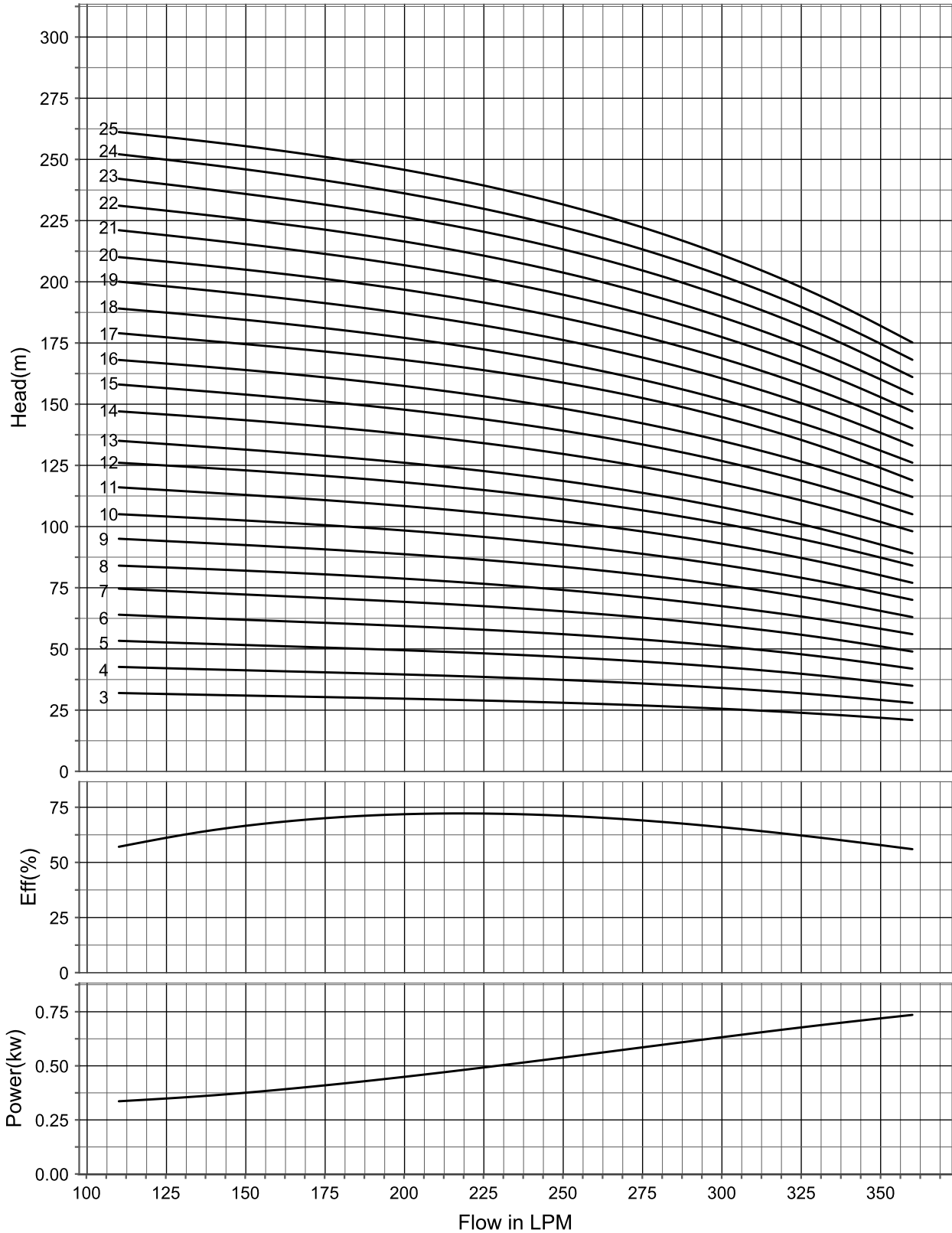
All Dimension are in mm		
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: R-65K

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-65K	3.0	3	596	414	1010	142	141	17	39	56
R-65K	4.0	4	611	459	1070	142	141	19	41	60
R-65K	6.0	6	651	549	1200	142	141	21	46	67
R-65K	7.5	7	696	594	1290	142	141	23	50	73
R-65K	7.5	8	696	639	1335	142	141	25	50	75
R-65K	10.0	10	751	846	1597	142	141	33	57	90
R-65K	12.5	12	806	936	1742	142	141	37	65	102
R-65K	12.5	13	806	981	1787	142	141	39	65	104
R-65K	15.0	14	856	1026	1882	142	141	41	70	111
R-65K	15.0	15	856	1071	1927	142	141	44	70	114
R-65K	17.5	16	876	1116	1992	142	141	46	71	117
R-65K	17.5	17	876	1161	2037	142	141	48	71	119
R-65K	20.0	20	926	1296	2222	142	141	54	75	129
R-65K	22.5	22	996	1386	2382	142	141	58	79	137
R-65K	22.5	23	996	1431	2427	142	141	60	79	139
R-65K	25.0	25	996	1521	2517	142	141	65	85	150



Performance Curves • Model: R-65K



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: R-65

Outlet Size 2.5" (65 mm)

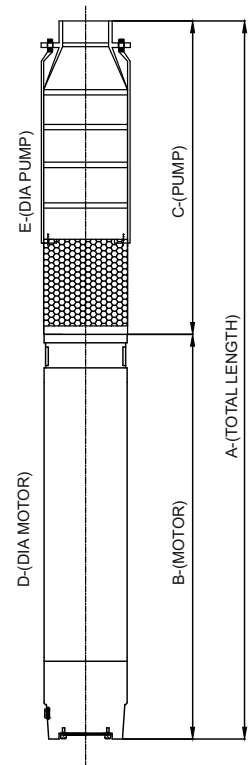
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			150	220	275	300	360	395	435
3	4.0		35	33	32	30	27	24	21
4	5.0		46	44	42	40	36	32	28
5	6.0		58	55	53	50	45	40	35
6	7.5		69	66	63	60	54	48	42
7	10.0		81	77	74	70	63	56	49
8	10.0		92	88	84	80	72	64	56
9	10.0		104	99	95	90	81	72	63
10	12.5		115	110	105	100	90	80	70
11	12.5		127	121	116	110	99	88	77
12	15.0		138	132	126	120	108	96	84
13	15.0		150	143	137	130	117	104	91
14	17.5		161	154	147	140	126	112	98
15	17.5		173	165	158	150	135	120	105
16	20.0		184	176	168	160	144	128	112
18	20.0		208	198	190	180	162	144	126
20	22.5		230	220	210	200	180	160	140
22	25.0		254	242	232	220	198	176	154

All Dimension are in mm

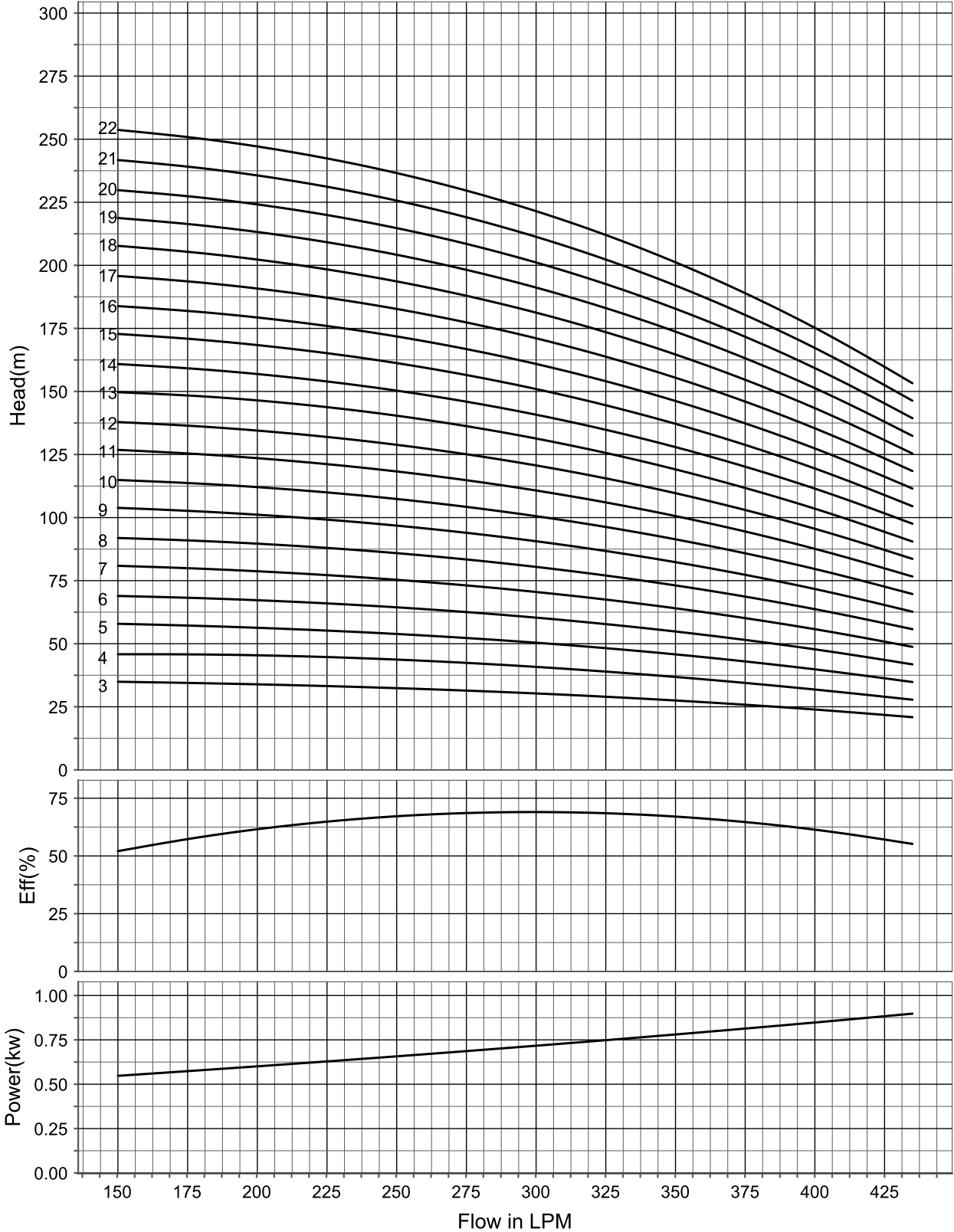
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: R-65

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-65	4.0	3	611	414	1025	142	141	15	41	56
R-65	5.0	4	631	459	1090	142	141	17	44	61
R-65	6.0	5	651	504	1155	142	141	19	46	65
R-65	7.5	6	696	549	1245	142	141	21	50	71
R-65	10.0	7	751	594	1345	142	141	23	57	80
R-65	10.0	8	751	639	1390	142	141	25	57	82
R-65	10.0	9	751	801	1552	142	141	31	57	88
R-65	12.5	10	806	846	1652	142	141	33	65	98
R-65	12.5	11	806	891	1697	142	141	35	65	100
R-65	15.0	12	856	936	1792	142	141	37	70	107
R-65	15.0	13	856	981	1837	142	141	39	70	109
R-65	17.5	14	876	1026	1902	142	141	41	71	112
R-65	17.5	15	876	1071	1947	142	141	44	71	115
R-65	20.0	16	926	1116	2042	142	141	46	75	121
R-65	20.0	18	926	1206	2132	142	141	49	75	124
R-65	22.5	20	996	1296	2292	142	141	54	79	133
R-65	25.0	22	996	1386	2382	142	141	58	85	143



Performance Curves • Model: R-65



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: M-60

Outlet Size 2.5" (65 mm)

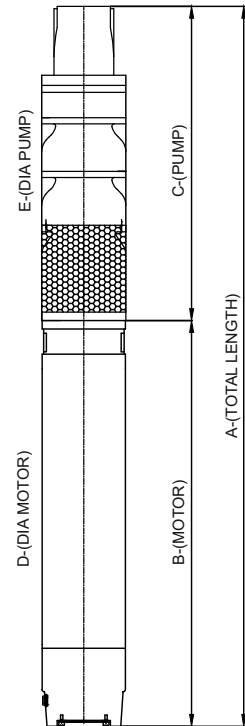
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			200	250	300	400	500	600	700
3	3.0		26	25	24	22	18	13	7
4	4.0		34	33	32	29	24	18	10
5	5.0		43	42	40	36	30	22	12
6	6.0		52	51	48	43	36	26	14
7	7.5		60	59	56	50	42	31	17
8	7.5		69	68	64	58	48	35	19
9	10.0		77	76	72	65	54	40	22
10	10.0		86	84	80	72	60	44	24
11	12.5		95	92	88	79	66	48	26
12	12.5		103	101	96	86	72	53	29
13	12.5		112	109	104	94	78	57	31
14	15.0		120	119	112	101	84	62	34
15	15.0		129	126	120	108	90	66	36
16	15.0		138	134	128	115	96	70	38
17	17.5		146	143	136	122	102	75	41
18	17.5		155	151	144	130	108	79	43
19	20.0		163	160	152	137	114	84	46
20	20.0		172	168	160	144	120	88	48

All Dimension are in mm

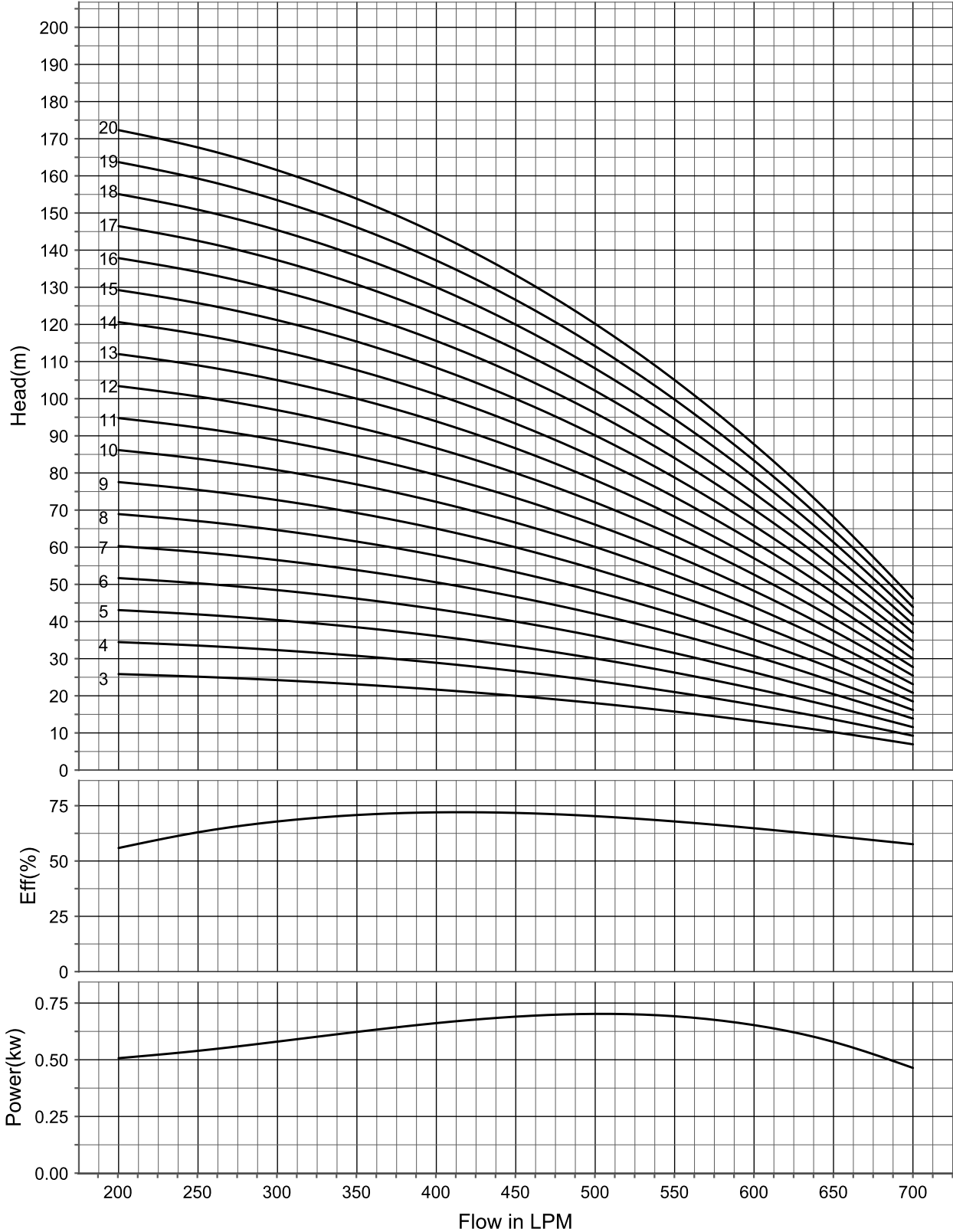
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-60

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-60	3.0	3	596	565	1161	142	138	23	39	62
M-60	4.0	4	611	655	1266	142	138	27	41	68
M-60	5.0	5	631	745	1376	142	138	30	44	74
M-60	6.0	6	651	835	1486	142	138	34	46	80
M-60	7.5	7	696	925	1621	142	138	38	50	88
M-60	7.5	8	696	1070	1766	142	138	48	50	98
M-60	10.0	9	751	1160	1911	142	138	52	57	109
M-60	10.0	10	751	1250	2001	142	138	56	57	113
M-60	12.5	11	806	1340	2146	142	138	61	65	126
M-60	12.5	12	806	1430	2236	142	138	65	65	130
M-60	12.5	13	806	1520	2326	142	138	69	65	134
M-60	15.0	14	856	1610	2466	142	138	74	70	144
M-60	15.0	15	856	1700	2556	142	138	78	70	148
M-60	15.0	16	856	1790	2646	142	138	82	70	152
M-60	17.5	17	876	1880	2756	142	138	87	71	158
M-60	17.5	18	876	1970	2846	142	138	91	71	162
M-60	20.0	19	926	2060	2986	142	138	95	75	170
M-60	20.0	20	926	2152	3078	142	138	100	75	175



Performance Curves • Model: M-60



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: M-61

Outlet Size 2.5" (65 mm)

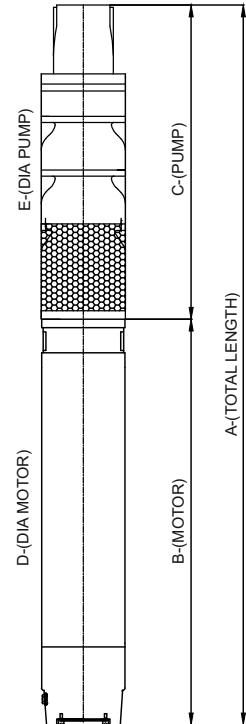
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			250	300	400	500	600	700	800
3	4.0		27	25	24	22	20	15	10
4	5.0		36	34	32	30	26	20	14
5	6.0		44	43	40	37	32	25	17
6	7.5		53	52	49	45	39	31	21
7	10.0		62	60	57	52	45	36	24
8	10.0		71	69	65	60	52	41	27
9	12.5		80	77	73	67	58	46	30
10	12.5		89	86	81	74	65	51	34
11	15.0		98	95	89	82	71	56	38
12	15.0		106	103	97	89	77	61	41
13	15.0		115	112	105	97	84	66	44
14	17.5		124	120	113	104	90	71	48
15	17.5		133	129	121	112	97	76	51
16	20.0		142	137	129	119	103	81	55
17	22.5		150	146	137	126	109	86	58
18	22.5		159	154	145	133	115	91	61

All Dimension are in mm

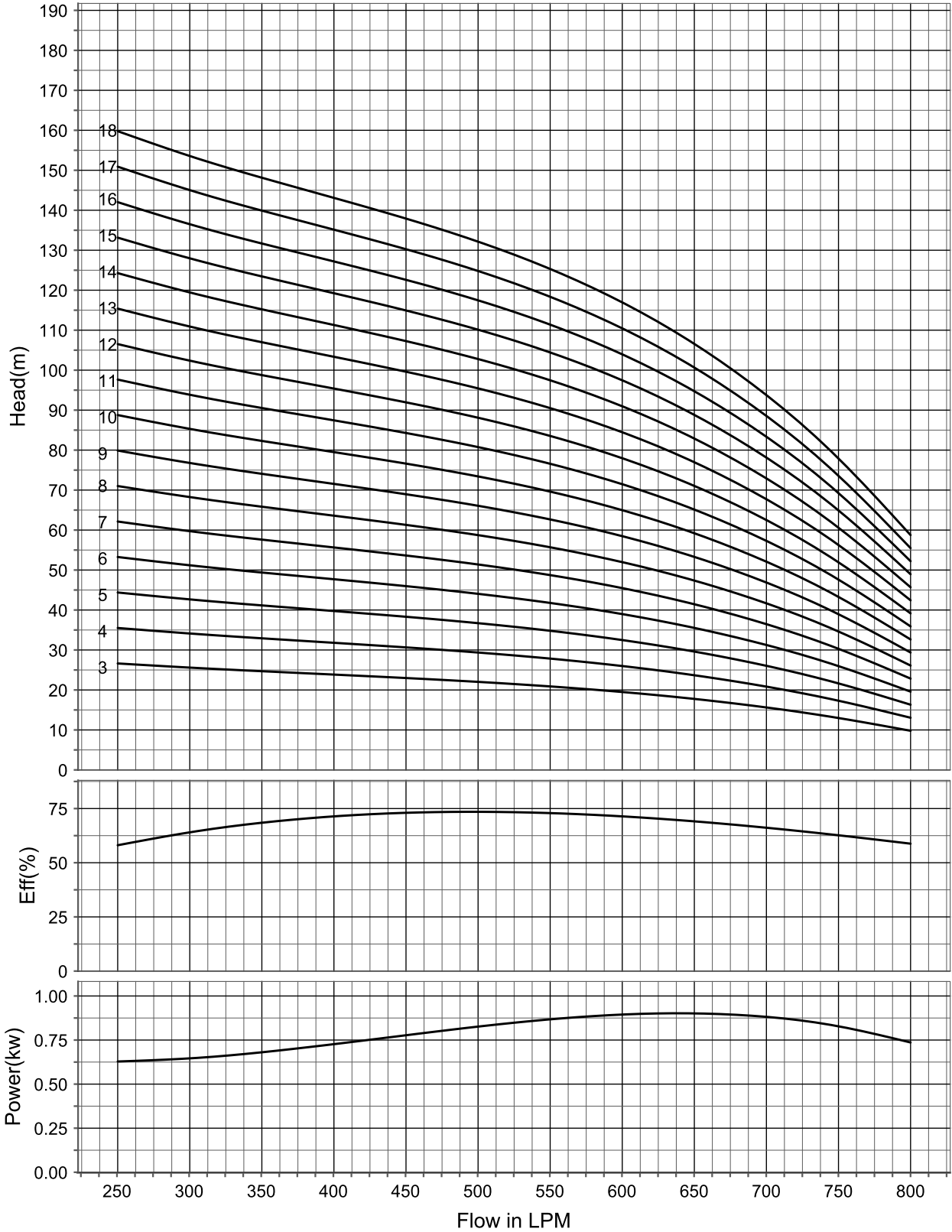
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-61

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-61	4.0	3	611	565	1176	142	138	23	41	64
M-61	5.0	4	631	655	1286	142	138	27	44	71
M-61	6.0	5	651	745	1396	142	138	31	46	77
M-61	7.5	6	696	835	1531	142	138	34	50	84
M-61	10.0	7	751	925	1676	142	138	38	57	95
M-61	10.0	8	751	1070	1821	142	138	48	57	105
M-61	12.5	9	806	1160	1966	142	138	52	65	117
M-61	12.5	10	806	1250	2056	142	138	56	65	121
M-61	15.0	11	856	1340	2196	142	138	61	70	131
M-61	15.0	12	856	1430	2286	142	138	65	70	135
M-61	15.0	13	856	1520	2376	142	138	70	70	140
M-61	17.5	14	876	1610	2486	142	138	74	71	145
M-61	17.5	15	876	1700	2576	142	138	78	71	149
M-61	20.0	16	926	1790	2716	142	138	83	75	158
M-61	22.5	17	996	1880	2876	142	138	87	79	166
M-61	22.5	18	996	1970	2966	142	138	91	79	170



Performance Curves • Model: M-61



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: M-62

Outlet Size 2.5" (65 mm)

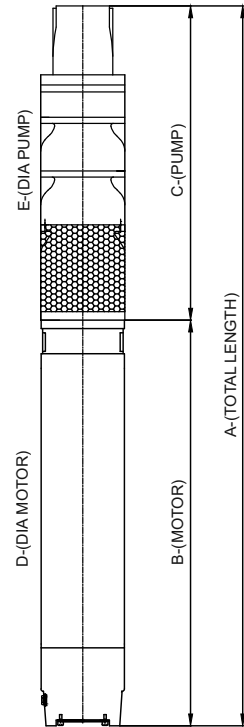
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			300	400	500	600	700	800	900
3	5.0		28	26	24	20	17	13	9
4	6.0		38	35	32	27	23	18	12
5	7.5		47	44	40	34	29	22	14
6	10.0		66	62	55	48	40	31	20
8	12.5		76	70	63	55	46	35	23
9	15.0		85	79	71	62	51	40	26
10	15.0		94	88	79	68	57	44	29
11	15.0		104	97	87	75	63	49	32
12	17.5		113	105	95	82	68	53	35
13	20.0		123	114	103	89	74	57	38
14	20.0		132	123	111	96	80	62	40
15	22.5		141	132	119	103	86	66	43
16	22.5		150	141	127	110	92	70	46
17	25.0		160	150	135	117	97	75	49
18	25.0		170	158	142	124	102	80	52

All Dimension are in mm

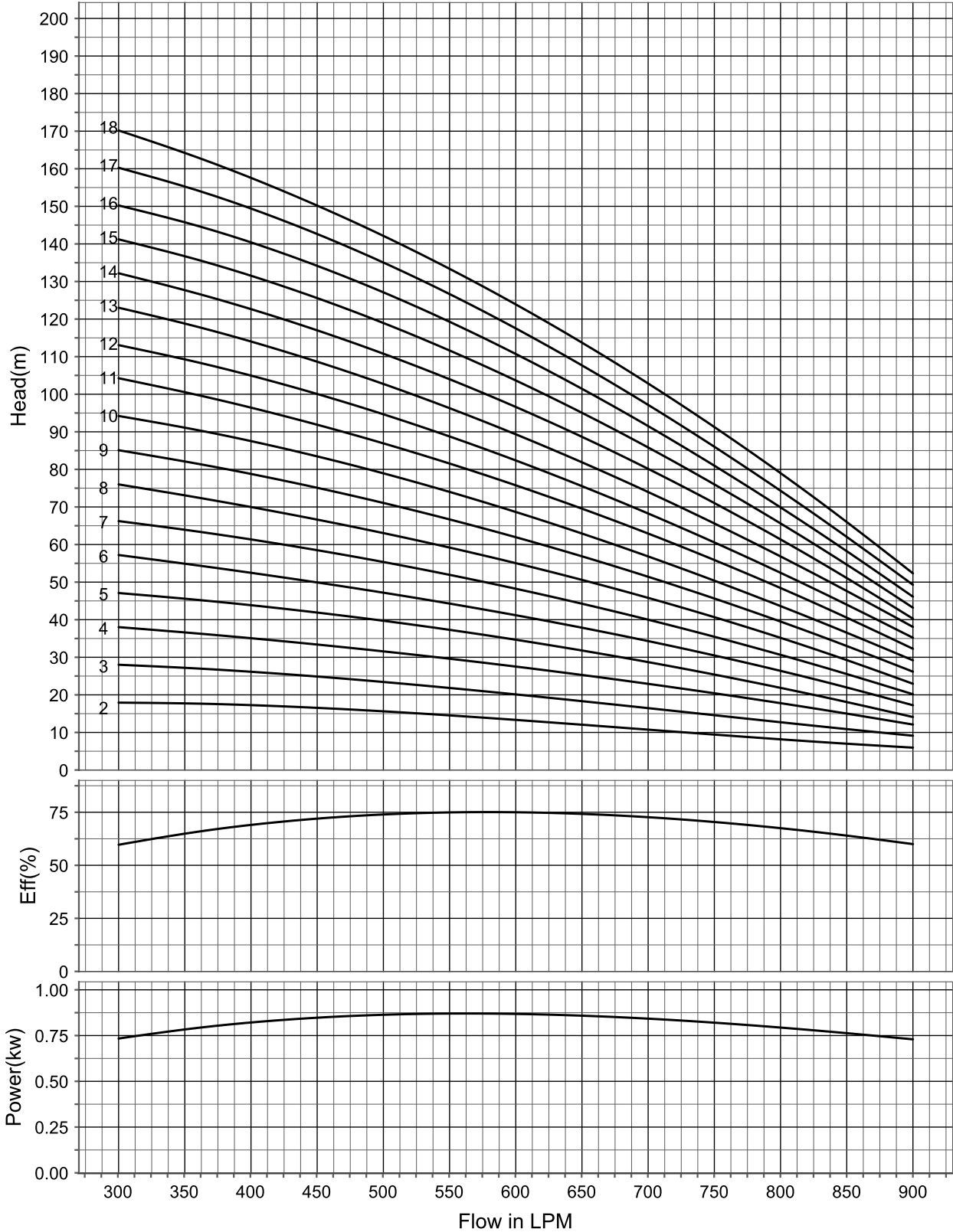
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-62

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-62	5.0	3	631	565	1196	142	138	23	44	67
M-62	6.0	4	651	655	1306	142	138	27	46	73
M-62	7.5	5	696	745	1441	142	138	31	50	81
M-62	10.0	6	751	835	1586	142	138	35	57	92
M-62	12.5	7	806	1070	1876	142	138	39	65	104
M-62	15.0	8	856	1160	2016	142	138	48	70	118
M-62	15.0	9	856	1250	2106	142	138	52	70	122
M-62	15.0	10	856	1340	2196	142	138	57	70	127
M-62	17.5	11	876	1430	2306	142	138	61	71	132
M-62	20.0	12	926	1520	2446	142	138	65	75	140
M-62	20.0	13	926	1610	2536	142	138	70	75	145
M-62	22.5	14	996	1700	2696	142	138	74	79	153
M-62	22.5	15	996	1790	2786	142	138	78	79	157
M-62	25.0	16	996	1880	2876	142	138	83	85	168
M-62	25.0	18	996	1970	2966	142	138	91	84	175



Performance Curves • Model: M-62



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: M-63

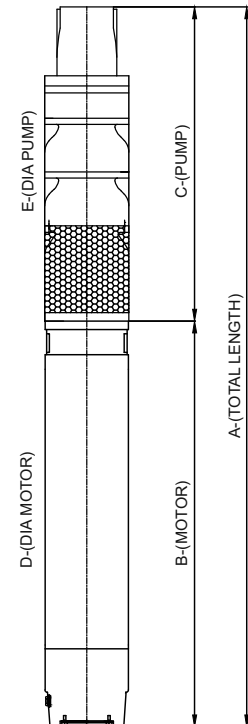
Outlet Size 3" (75 mm)

		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	520	600	680	750	800	850	900
3	5.0		26	24	23	21	20	17	15
4	7.5		34	32	30	28	26	22	20
5	10.0		43	40	38	35	33	28	25
6	10.0		51	48	45	42	39	33	30
7	12.5		60	56	53	49	46	39	35
8	15.0		68	64	60	56	52	44	40
9	15.0		77	72	68	63	59	50	45
10	17.5		85	80	75	70	65	55	50
11	20.0		94	88	83	77	72	61	55
12	20.0		102	96	90	84	78	66	60
13	22.5		111	104	98	91	85	72	65
14	22.5		119	112	105	96	91	77	70
15	25.0		128	120	113	104	98	83	75
16	25.0		136	128	120	112	104	88	80

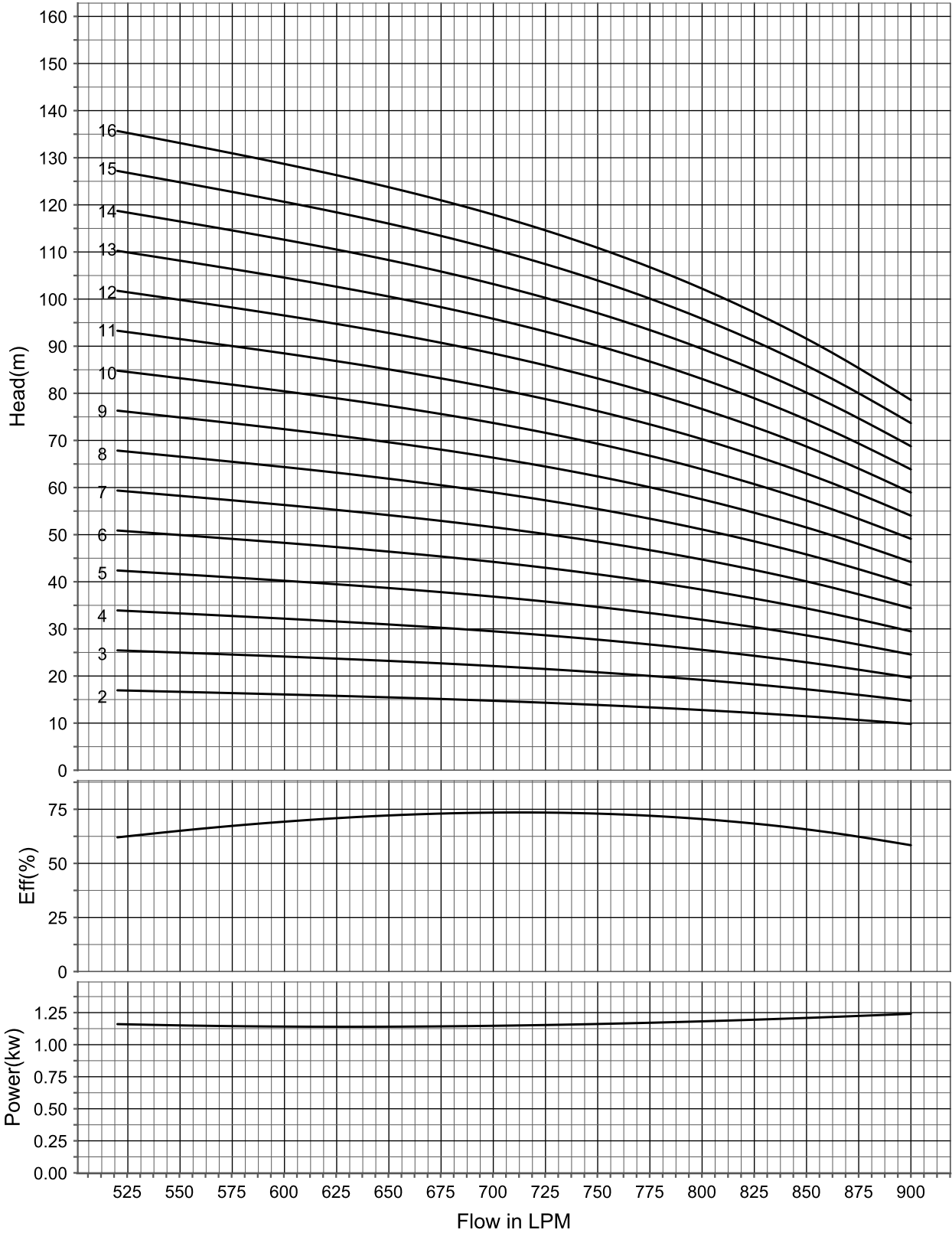
All Dimension are in mm		
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-63

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-63	5.0	3	631	602	1233	142	138	25	44	69
M-63	7.5	4	696	707	1403	142	138	30	50	80
M-63	10.0	5	751	812	1563	142	138	35	57	92
M-63	10.0	6	751	917	1668	142	138	41	57	98
M-63	12.5	7	806	1022	1828	142	138	46	65	111
M-63	15.0	8	856	1182	2038	142	138	63	70	133
M-63	15.0	9	856	1287	2143	142	138	68	70	138
M-63	17.5	10	876	1392	2268	142	138	74	71	145
M-63	20.0	11	926	1497	2423	142	138	79	75	154
M-63	20.0	12	926	1602	2528	142	138	84	75	159
M-63	22.5	13	996	1707	2703	142	138	89	79	168
M-63	22.5	14	996	1812	2808	142	138	94	79	173
M-63	25.0	15	996	1917	2913	142	138	99	85	184
M-63	25.0	16	996	2022	3018	142	138	105	85	190



Performance Curves • Model: M-63



Outlet: 75 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: M-64

Outlet Size 3" (75 mm)

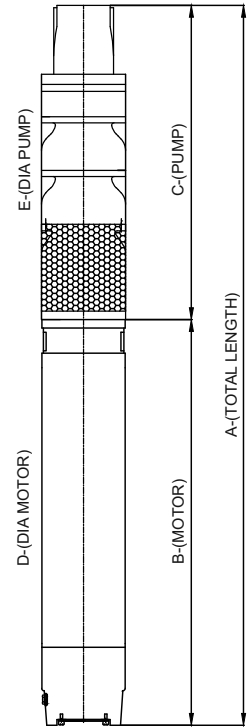
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			600	680	760	850	900	950	1000
3	6.0		26	24	23	21	20	17	15
4	7.5		34	32	30	28	26	22	20
5	10.0		43	40	38	35	33	28	25
6	12.5		51	48	45	42	39	33	30
7	15.0		60	56	53	49	46	39	35
8	15.0		68	64	60	56	52	44	40
9	17.5		77	72	68	63	59	50	45
10	20.0		85	80	75	70	65	55	50
11	22.5		94	88	83	77	72	61	55
12	25.0		102	96	90	84	78	66	60

All Dimension are in mm

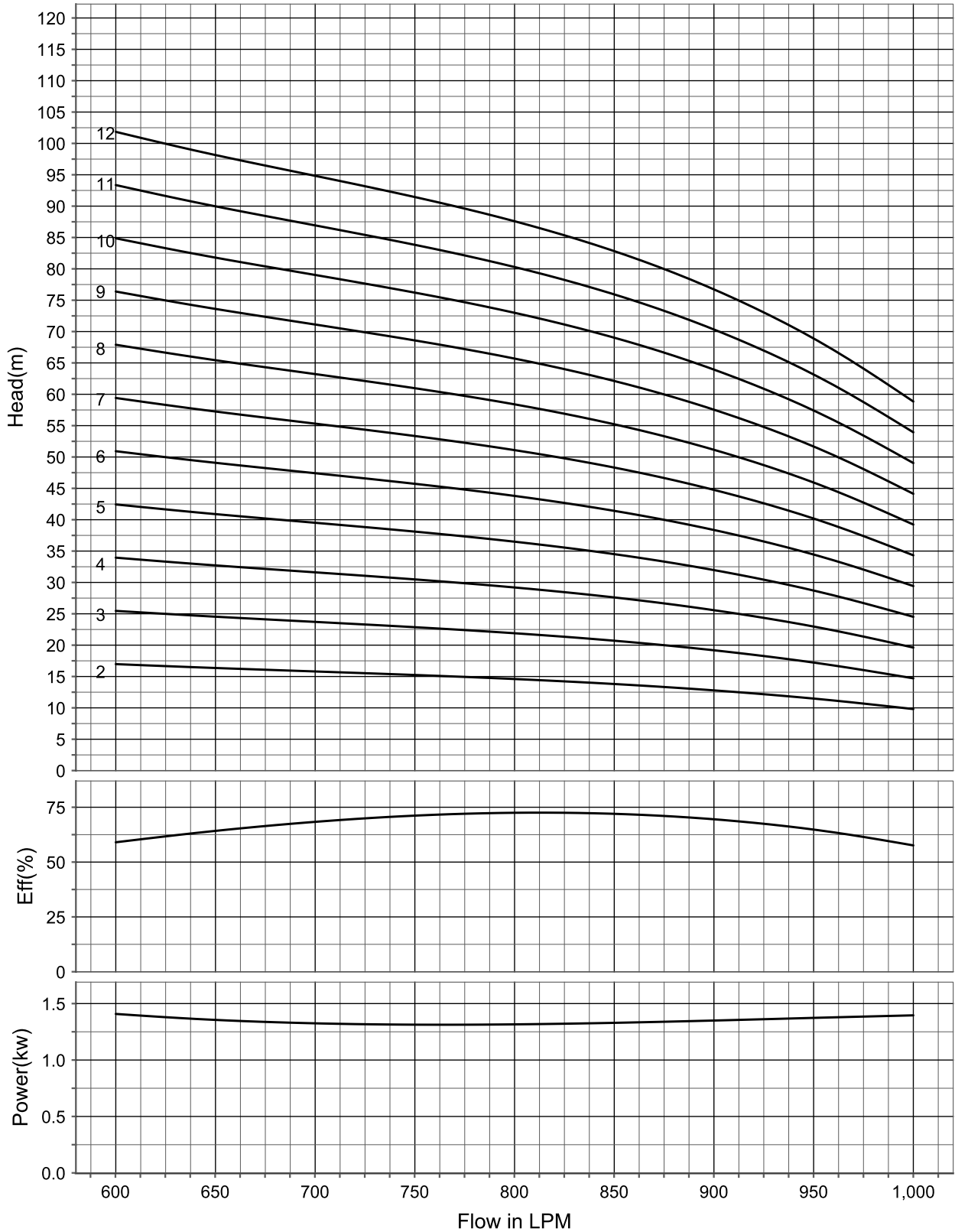
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-64

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-64	6.0	3	651	602	1253	142	138	25	46	71
M-64	7.5	4	696	707	1403	142	138	31	50	81
M-64	10.0	5	751	812	1563	142	138	37	57	94
M-64	12.5	6	806	917	1723	142	138	43	65	108
M-64	15.0	7	856	1022	1878	142	138	50	70	120
M-64	15.0	8	856	1182	2038	142	138	65	70	135
M-64	17.5	9	876	1287	2163	142	138	71	71	142
M-64	20.0	10	926	1392	2318	142	138	77	75	152
M-64	22.5	11	996	1497	2493	142	138	83	79	162
M-64	25.0	12	996	1602	2598	142	138	90	79	169



Performance Curves • Model: M-64



Outlet: 75 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: M-65

Outlet Size 3" (75 mm)

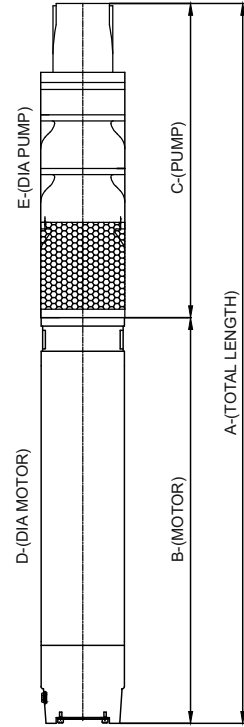
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			630	800	870	950	1020	1100	1200
2	5.0		18	16	15	14	13	12	10
3	7.5		27	24	23	21	20	18	15
4	10.0		36	32	30	28	26	24	20
5	12.5		45	40	38	35	33	30	25
6	15.0		54	48	45	42	39	36	30
7	17.5		63	56	53	49	46	42	35
8	20.0		72	64	60	56	52	48	40
9	22.5		81	72	68	63	59	54	45
10	25.0		90	80	76	70	66	60	50

All Dimension are in mm

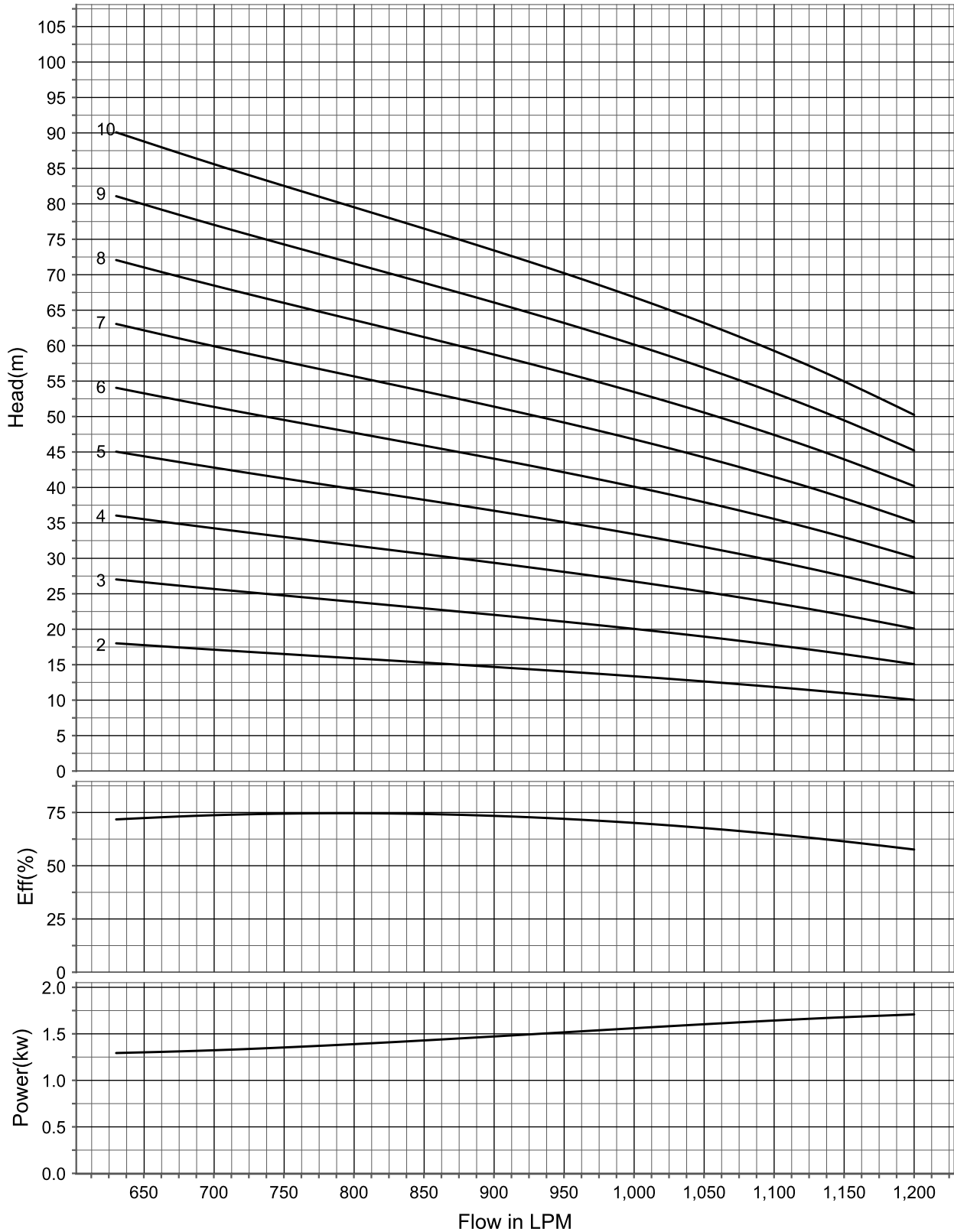
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-65

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-65	5.0	2	631	497	1128	142	138	21	44	65
M-65	7.5	3	696	602	1298	142	138	26	50	76
M-65	10.0	4	751	707	1458	142	138	32	57	89
M-65	12.5	5	806	812	1618	142	138	37	65	102
M-65	15.0	6	856	917	1773	142	138	42	70	112
M-65	17.5	7	876	1022	1898	142	138	48	71	119
M-65	20.0	8	926	1182	2108	142	138	66	75	141
M-65	22.5	9	996	1287	2283	142	138	72	79	151
M-65	25.0	10	996	1392	2388	142	138	77	84	161



Performance Curves • Model: M-65



Outlet: 75 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: RHS-62K

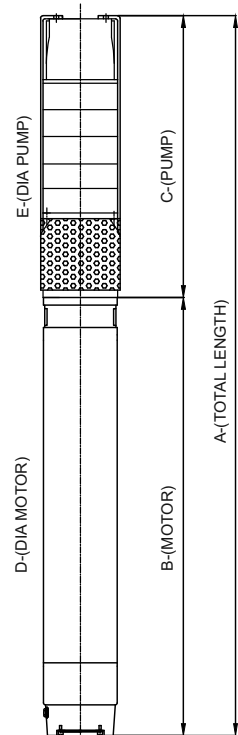
Outlet Size 2.5" (65 mm)

STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			25	95	120	145	160	165	170
6	3.0		76	72	65	58	51	45	38
8	4.0		102	96	86	77	68	60	51
10	5.0		127	120	108	97	85	75	63
12	6.0		152	144	130	116	102	90	76
15	7.5		191	180	162	145	128	113	95
20	10.0		254	240	216	193	170	150	127

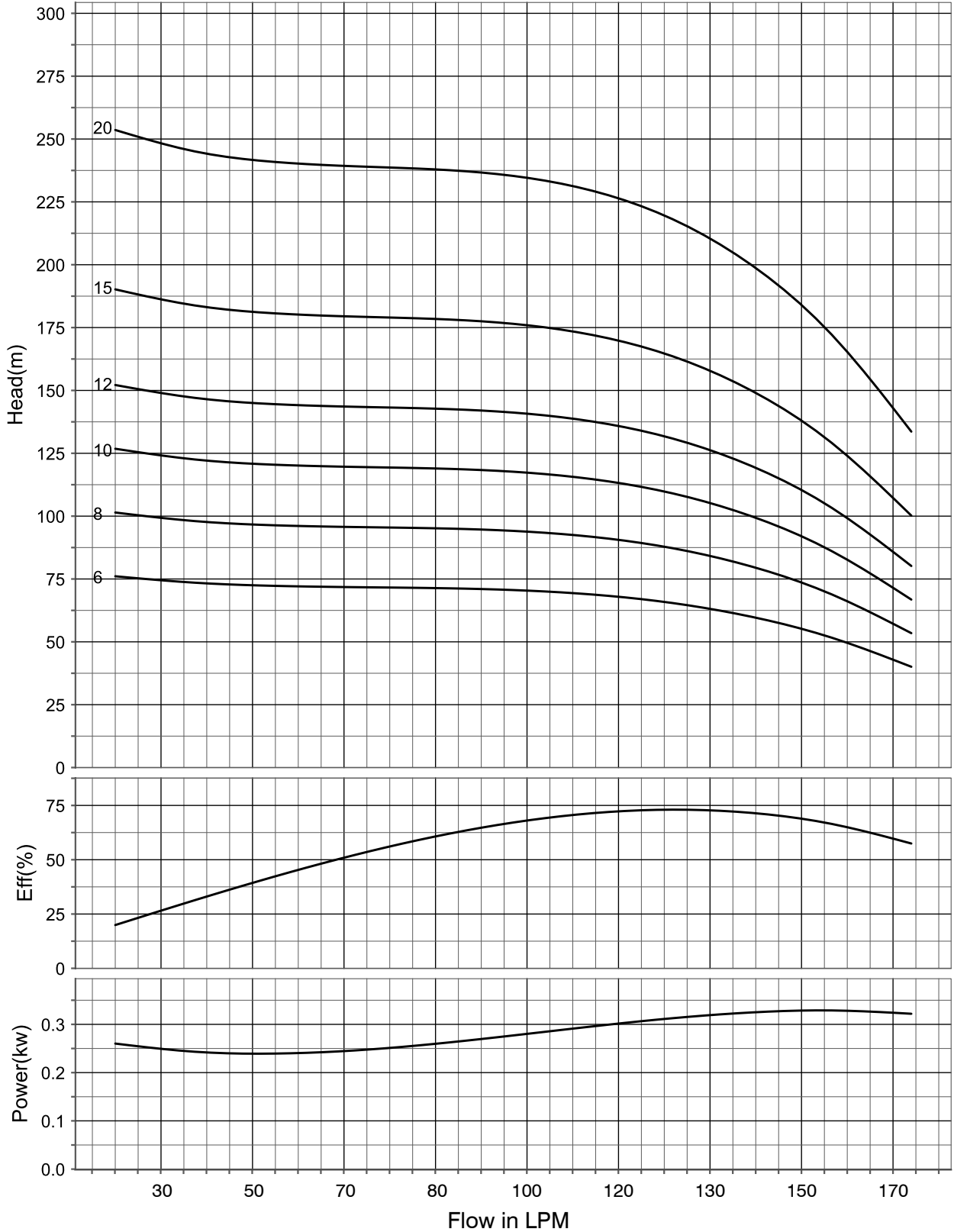
All Dimension are in mm		
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: RHS-62K

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
RHS-62K	3.0	6	596	471	1067	142	143	22	39	61
RHS-62K	4.0	8	611	543	1154	142	143	26	41	67
RHS-62K	5.0	10	631	615	1246	142	143	29	44	73
RHS-62K	6.0	12	651	687	1338	142	143	32	46	78
RHS-62K	7.5	15	696	795	1491	142	143	37	50	87
RHS-62K	10.0	20	751	975	1726	142	143	45	57	102



Performance Curves • Model: RHS-62K



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: RHS-63

Outlet Size 2.5" (65 mm)

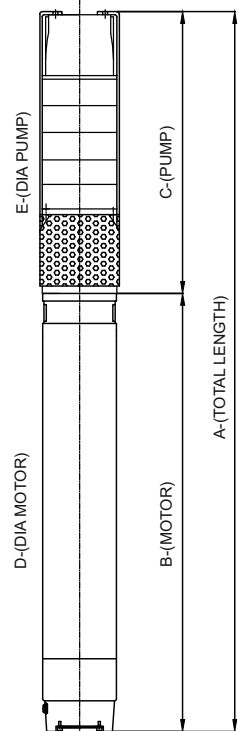
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			30	80	145	165	180	215	240
5	3.0		73	69	60	55	46	37	24
7	4.0		102	97	84	77	64	51	34
8	5.0		116	110	96	88	74	58	38
10	6.0		145	138	120	110	92	73	48
12	7.5		174	166	144	132	110	88	58
16	10.0		232	221	192	176	147	117	77
19	12.5		276	262	228	209	175	139	91
20	15.0		290	276	240	220	184	146	96

All Dimension are in mm

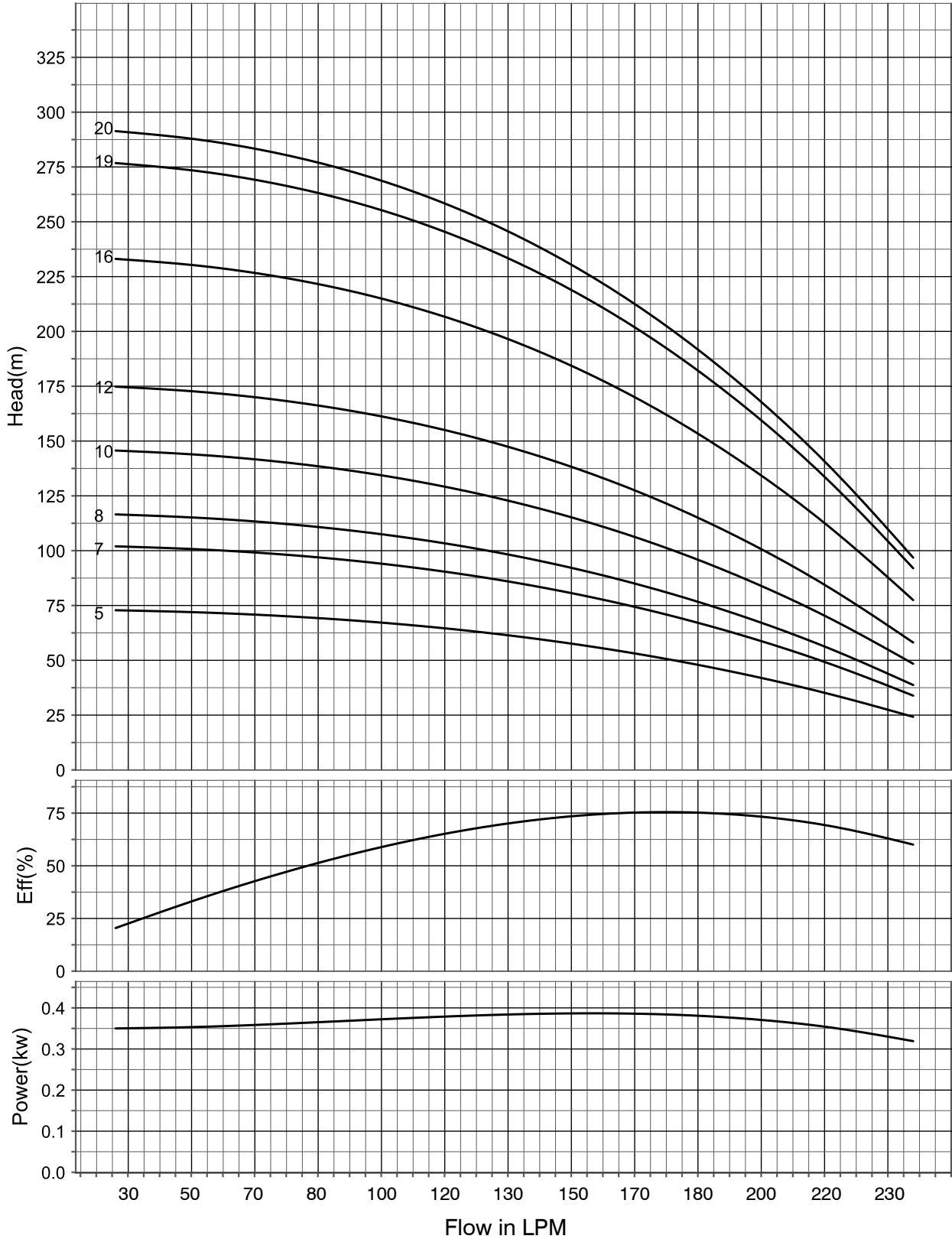
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: RHS-63

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
RHS-63	3.0	5	596	435	1031	142	143	22	39	61
RHS-63	4.0	7	611	507	1118	142	143	25	41	66
RHS-63	5.0	8	631	543	1174	142	143	27	44	71
RHS-63	6.0	10	651	615	1266	142	143	30	46	76
RHS-63	7.5	12	696	687	1383	142	143	33	50	83
RHS-63	10.0	16	751	831	1582	142	143	39	57	96
RHS-63	12.5	19	806	939	1745	142	143	44	65	109
RHS-63	15.0	20	856	975	1831	142	143	46	70	116



Performance Curves • Model: RHS-63



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: RHS-63K

Outlet Size 2.5" (65 mm)

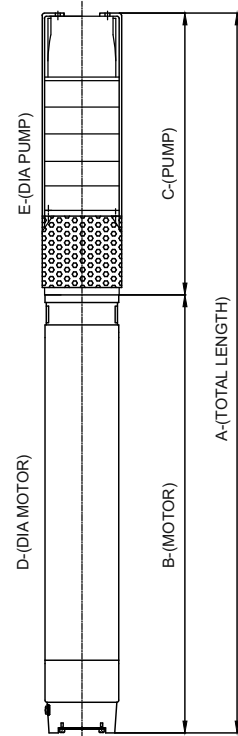
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	25	90	135	170	180	225	245
4	3.0		60	56	53	48	39	26	18
5	4.0		75	70	66	60	49	32	23
6	5.0		89	84	79	72	58	38	28
7	6.0		104	98	92	84	68	45	32
10	7.5		149	140	132	120	97	64	46
12	10.0		179	168	158	144	116	77	55
15	12.5		224	210	198	180	146	96	69
18	15.0		268	252	238	216	175	115	83
21	17.5		313	294	277	252	204	134	97

All Dimension are in mm

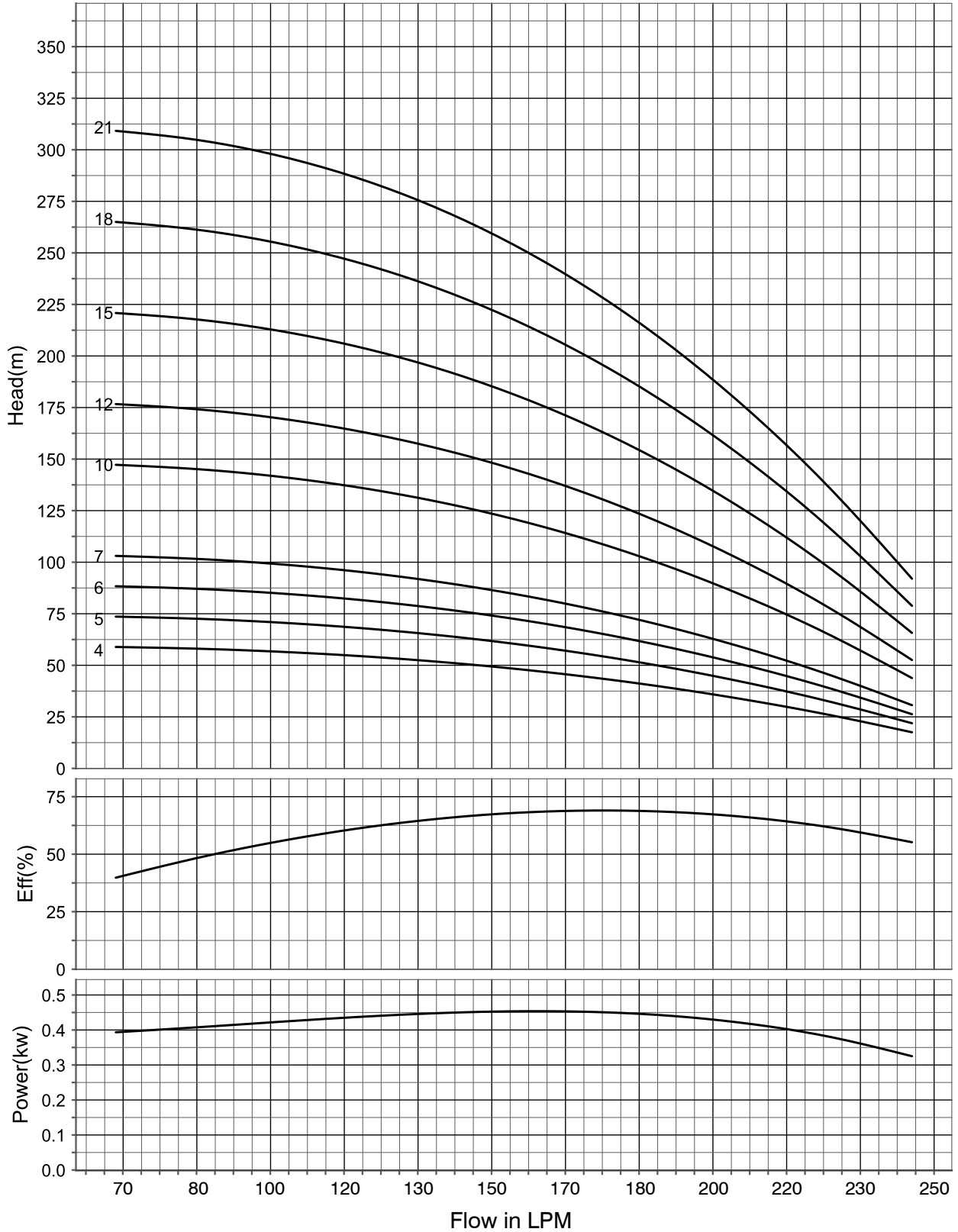
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: RHS-63K

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
RHS-63K	3.0	4	596	399	995	142	143	22	39	61
RHS-63K	4.0	5	611	435	1046	142	143	23	41	64
RHS-63K	5.0	6	631	471	1102	142	143	25	44	69
RHS-63K	6.0	7	651	507	1158	142	143	26	46	72
RHS-63K	7.5	10	696	615	1311	142	143	28	50	78
RHS-63K	10.0	12	751	687	1438	142	143	31	57	88
RHS-63K	12.5	15	806	795	1601	142	143	34	65	99
RHS-63K	15.0	18	856	903	1759	142	143	39	70	109
RHS-63K	17.5	21	876	1011	1887	142	143	48	71	119



Performance Curves • Model: RHS-63K



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: RHS-65K

Outlet Size 2.5" (65 mm)

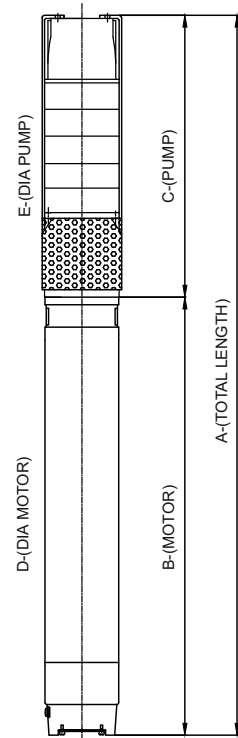
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			50	120	235	265	300	330	355
3	3.0		43	40	36	30	23	17	11
4	4.0		58	53	48	40	30	22	14
5	5.0		72	66	60	50	38	28	18
6	6.0		86	79	72	60	45	34	21
8	7.5		115	106	96	80	60	45	28
10	10.0		144	132	120	100	75	56	35
12	12.5		173	158	144	120	90	67	42
15	15.0		216	198	180	150	113	84	53
18	17.5		259	238	216	180	135	101	63
20	20.0		288	264	240	200	150	112	70

All Dimension are in mm

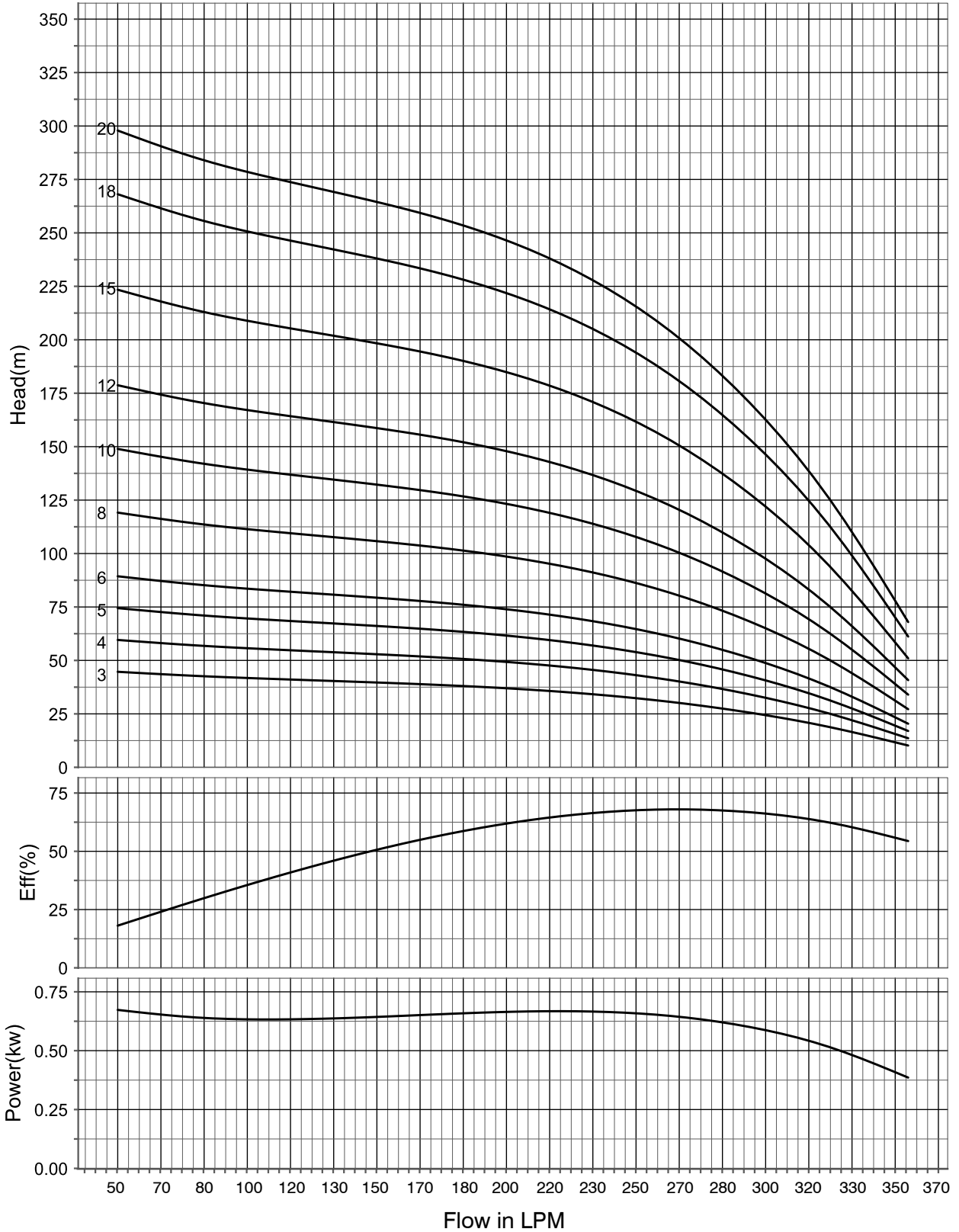
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: RHS-65K

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
RHS-65K	3.0	3	596	375	971	142	143	21	39	60
RHS-65K	4.0	4	611	415	1026	142	143	22	41	63
RHS-65K	5.0	5	631	455	1086	142	143	24	44	68
RHS-65K	6.0	6	651	495	1146	142	143	26	46	72
RHS-65K	7.5	8	696	575	1271	142	143	29	50	79
RHS-65K	10.0	10	751	655	1406	142	143	32	57	89
RHS-65K	12.5	12	806	735	1541	142	143	35	65	100
RHS-65K	15.0	15	856	855	1711	142	143	40	70	110
RHS-65K	17.5	18	876	975	1851	142	143	45	71	116
RHS-65K	20.0	20	926	1055	1981	142	143	48	75	123



Performance Curves • Model: RHS-65K



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: RHS-65

Outlet Size 2.5" (65 mm)

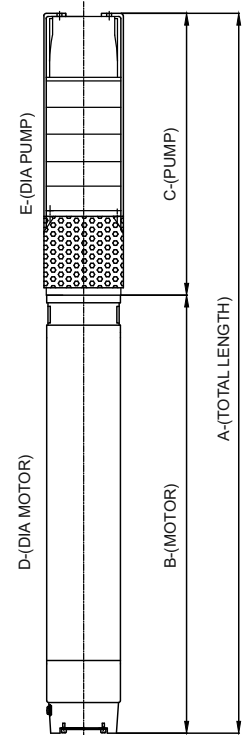
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			70	150	230	305	380	415	445
3	4.0		47	44	43	36	27	23	15
4	5.0		62	59	57	48	36	30	20
5	6.0		78	74	72	60	45	38	25
6	7.5		93	89	86	72	54	45	30
8	10.0		124	118	114	96	72	60	40
10	12.5		155	148	143	120	90	75	50
12	15.0		186	178	172	144	108	90	60
14	17.5		217	207	200	168	126	105	70
16	20.0		248	237	229	192	144	120	80
20	25.0		310	296	286	240	180	150	100
24	30.0		372	360	336	312	288	264	96

All Dimension are in mm

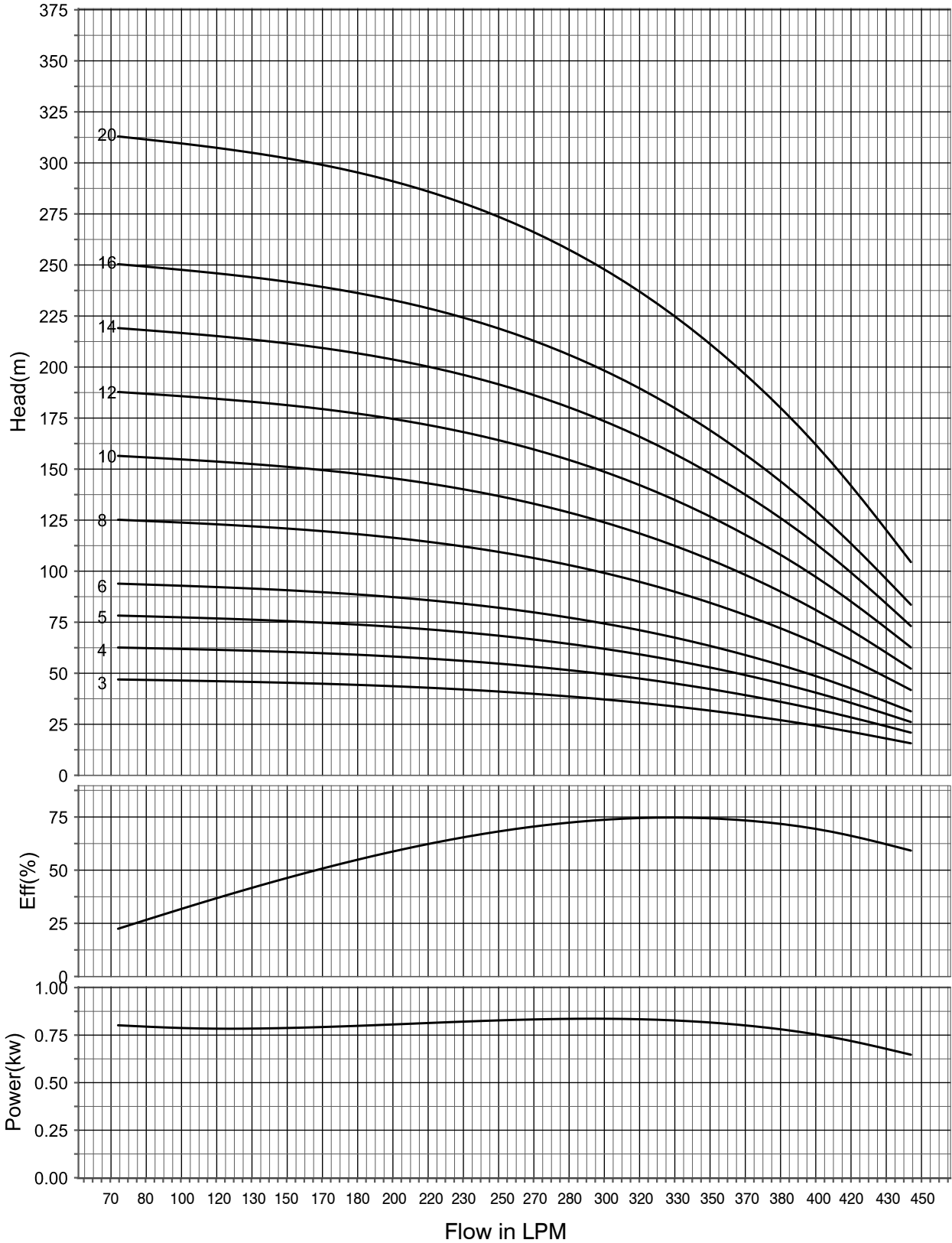
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: RHS-65

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
RHS-65	4.0	3	611	384	995	142	143	21	41	62
RHS-65	5.0	4	631	427	1058	142	143	22	44	66
RHS-65	6.0	5	651	470	1121	142	143	24	46	70
RHS-65	7.5	6	696	513	1209	142	143	26	50	76
RHS-65	10.0	8	751	599	1350	142	143	29	57	86
RHS-65	12.5	10	806	685	1491	142	143	32	65	97
RHS-65	15.0	12	856	771	1627	142	143	36	70	106
RHS-65	17.5	14	876	857	1733	142	143	40	71	111
RHS-65	20.0	16	926	943	1869	142	143	43	75	118
RHS-65	25.0	20	996	1115	2111	142	143	50	85	135



Performance Curves • Model: RHS-65



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: RHS-66

Outlet Size 2.5" (65 mm)

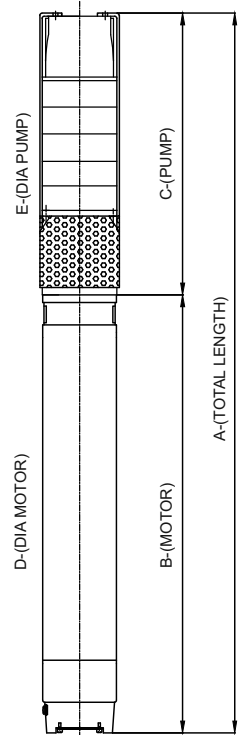
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			50	200	325	345	415	435	480
2	3.0		31	28	26	24	18	15	10
3	5.0		47	42	39	36	28	22	15
4	6.0		63	56	52	48	37	30	20
5	7.5		79	70	65	60	46	37	25
7	10.0		110	98	91	84	64	52	35
8	12.5		126	112	104	96	74	59	40
10	15.0		157	140	130	120	92	74	50
12	17.5		188	168	156	144	110	89	60
13	20.0		204	182	169	156	120	96	65
16	25.0		251	224	208	192	147	118	80

All Dimension are in mm

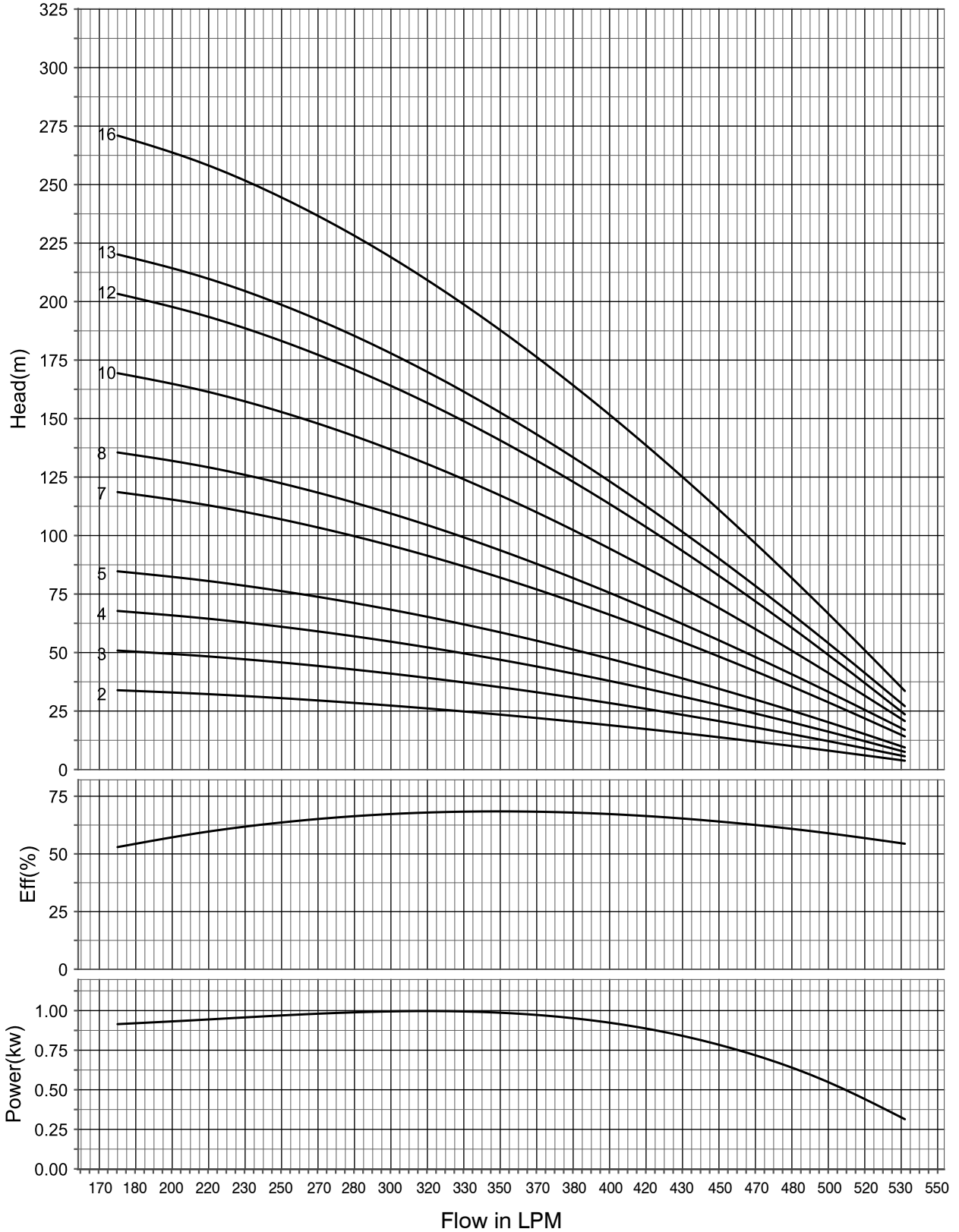
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: RHS-66

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
RHS-66	3.0	2	596	349	945	142	143	19	39	58
RHS-66	5.0	3	631	396	1027	142	143	21	44	65
RHS-66	6.0	4	651	443	1094	142	143	22	46	68
RHS-66	7.5	5	696	490	1186	142	143	24	50	74
RHS-66	10.0	7	751	584	1335	142	143	28	57	85
RHS-66	12.5	8	806	631	1437	142	143	30	65	95
RHS-66	15.0	10	856	725	1581	142	143	34	70	104
RHS-66	17.5	12	876	819	1695	142	143	37	71	108
RHS-66	20.0	13	926	866	1792	142	143	39	75	114
RHS-66	25.0	16	996	1007	2003	142	143	45	85	130



Performance Curves • Model: RHS-66



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: RHS-67

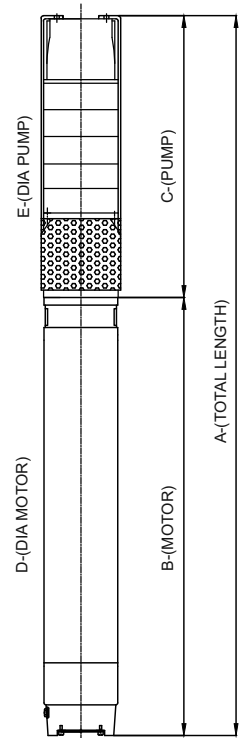
Outlet Size 2.5" (65 mm)

STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			60	225	375	450	470	520	600
2	4.0		27	26	24	22	21	18	15
3	6.0		41	39	36	33	32	27	23
4	7.5		54	52	48	44	42	36	30
5	10.0		68	65	60	55	53	45	38
6	12.5		81	78	72	66	63	54	45
8	15.0		108	104	96	88	84	72	60
9	17.5		122	117	108	99	95	81	68
10	20.0		135	130	120	110	105	90	75
13	25.0		176	169	156	143	137	117	98

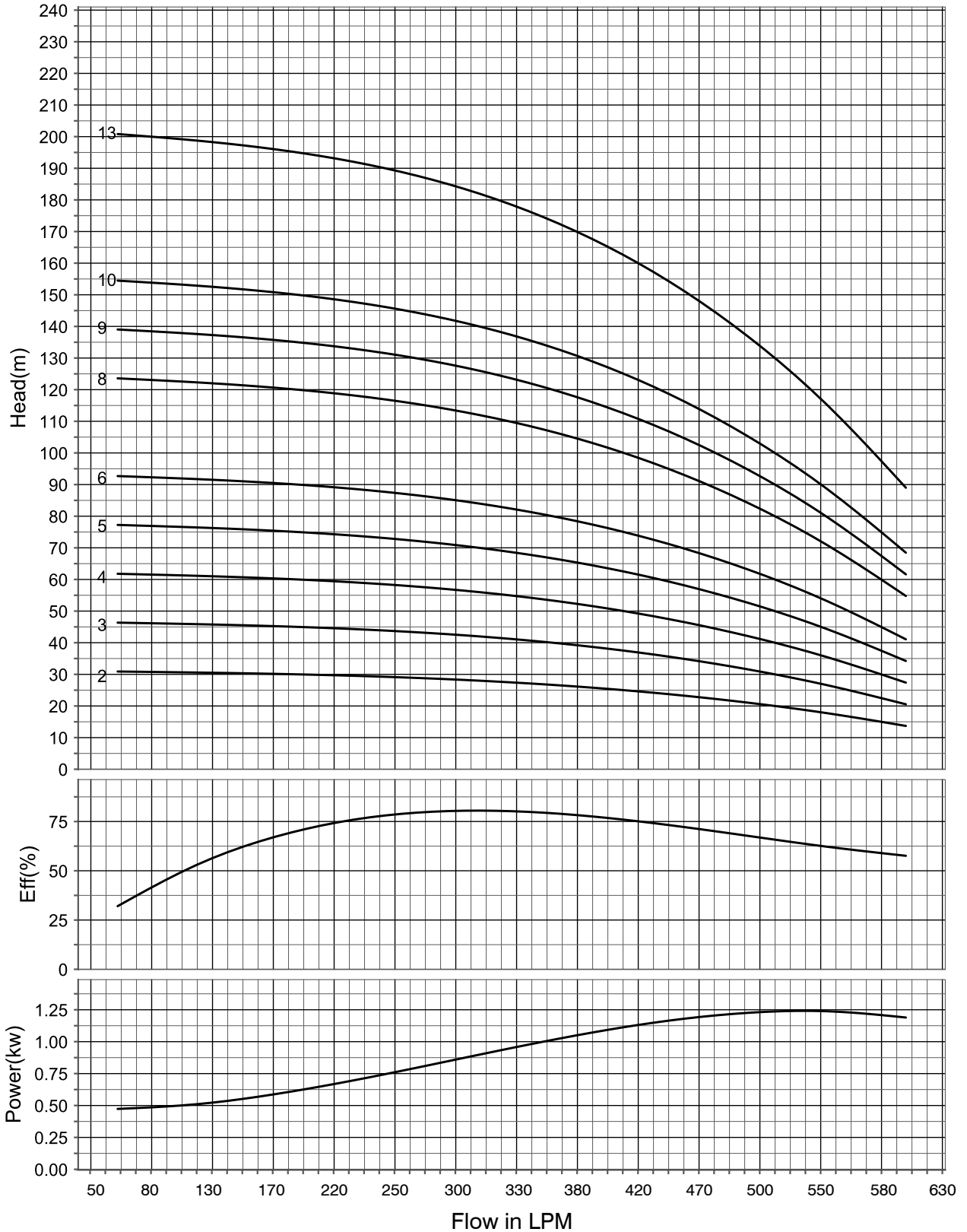
All Dimension are in mm		
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: RHS-67

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
RHS-67	4.0	2	611	365	976	142	143	18	41	59
RHS-67	6.0	3	651	420	1071	142	143	21	46	67
RHS-67	7.5	4	696	475	1171	142	143	23	50	73
RHS-67	10.0	5	751	530	1281	142	143	25	57	82
RHS-67	12.5	6	806	585	1391	142	143	27	65	92
RHS-67	15.0	8	856	695	1551	142	143	31	70	101
RHS-67	17.5	9	876	750	1626	142	143	33	71	104
RHS-67	20.0	10	926	805	1731	142	143	36	75	111
RHS-67	25.0	13	996	970	1966	142	143	42	85	127



Performance Curves • Model: RHS-67



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: MHS-62

Outlet Size 3" (75 mm)

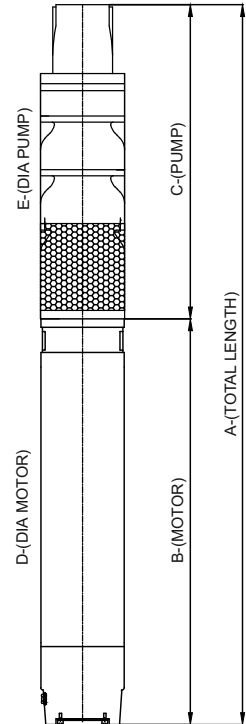
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			740	625	525	425	310	200	110
2	3.0		9	12	15	18	21	24	26
3	5.0		14	18	23	27	32	36	39
4	6.0		18	24	30	36	42	48	52
5	7.5		23	30	38	45	53	60	65
7	10.0		32	42	53	63	74	84	91
8	12.5		36	48	60	72	84	96	104
10	15.0		45	60	75	90	105	120	130
12	17.5		54	72	90	108	126	144	156
13	20.0		59	78	98	117	137	156	169
17	25.0		77	102	128	153	179	204	221

All Dimension are in mm

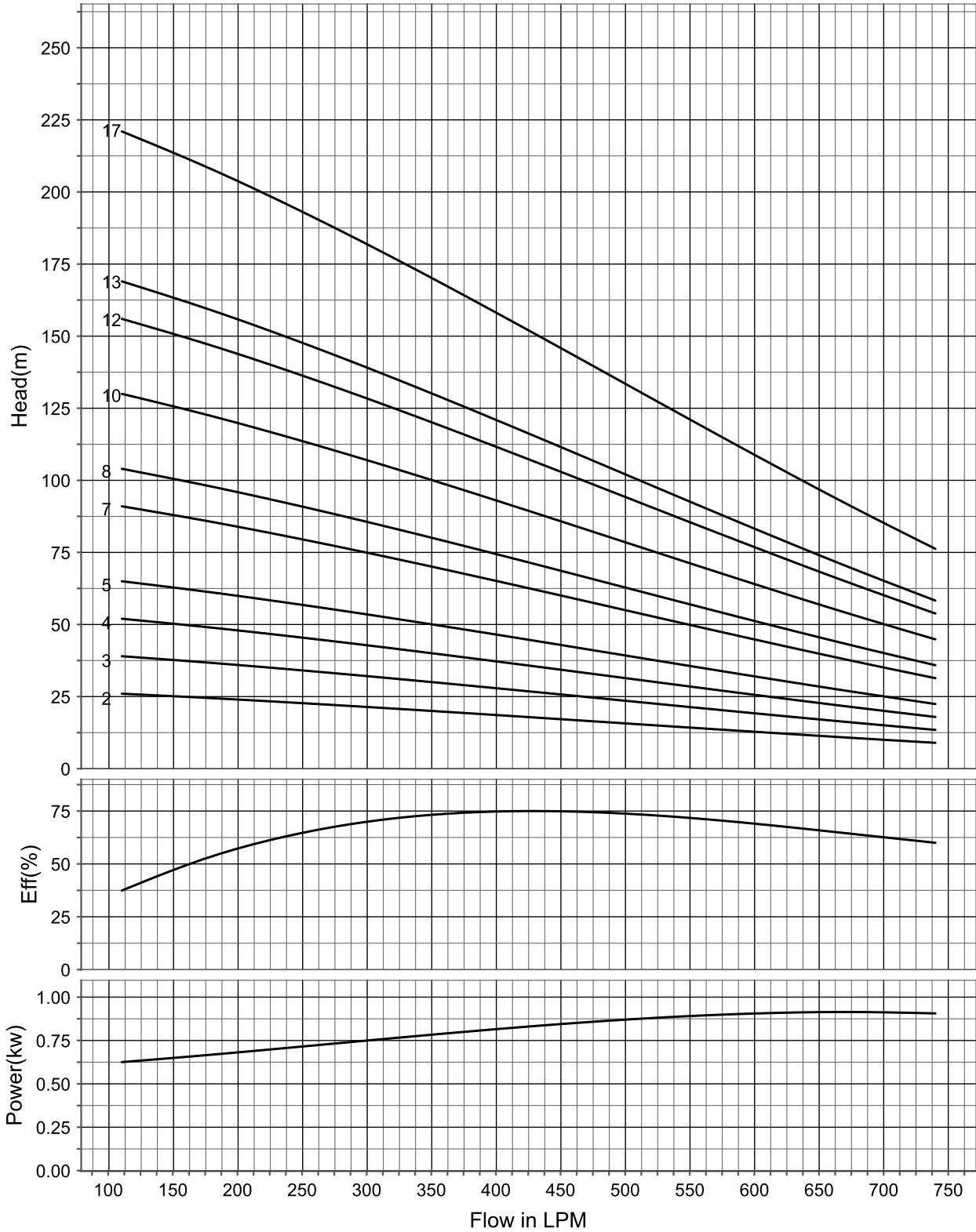
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: MHS-62

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
MHS-62	3.0	2	604	539	1143	142	142	20	39	59
MHS-62	5.0	3	639	618	1257	142	142	23	44	67
MHS-62	6.0	4	659	697	1356	142	142	27	46	73
MHS-62	7.5	5	704	776	1480	142	142	31	50	81
MHS-62	10.0	7	759	934	1693	142	142	39	57	96
MHS-62	12.5	8	814	1013	1827	142	142	48	65	113
MHS-62	15.0	10	864	1171	2035	142	142	57	70	127
MHS-62	17.5	12	884	1329	2213	142	142	65	71	136
MHS-62	20.0	13	934	1408	2342	142	142	70	75	145
MHS-62	25.0	17	1004	1724	2728	142	142	87	85	172



Performance Curves • Model: MHS-62



Outlet: 75 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: MHS-64

Outlet Size 3" (75 mm)

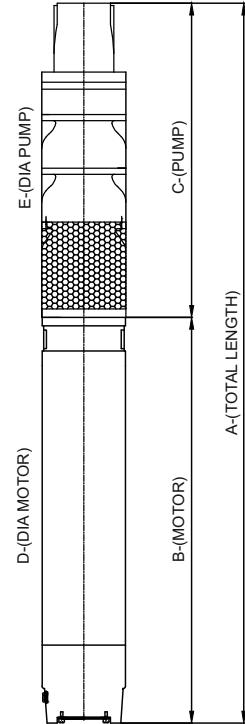
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			960	780	700	560	450	300	200
2	4.0		9	12	15	18	21	24	26
3	6.0		14	18	23	27	32	36	39
4	7.5		18	24	30	36	42	48	52
5	10.0		23	30	38	45	53	60	65
6	12.5		27	36	45	54	63	72	78
8	15.0		36	48	60	72	84	96	104
9	17.5		41	54	68	81	95	108	117
10	20.0		45	60	75	90	105	120	130
13	25.0		59	78	98	117	137	156	169

All Dimension are in mm

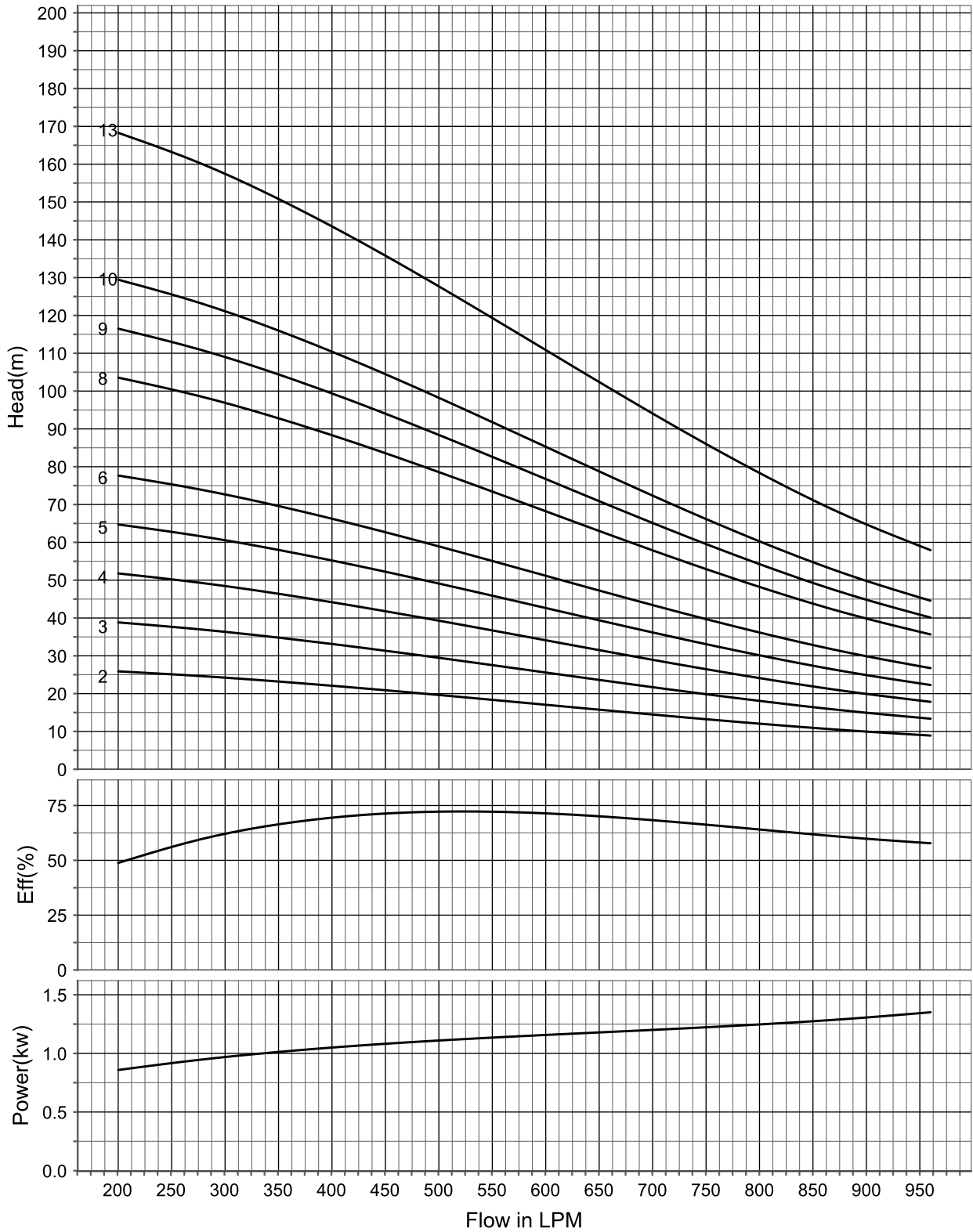
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: MHS-64

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
MHS-64	4.0	2	619	539	1158	142	142	20	41	61
MHS-64	6.0	3	659	618	1277	142	142	23	46	69
MHS-64	7.5	4	704	697	1401	142	142	27	50	77
MHS-64	10.0	5	759	776	1535	142	142	31	57	88
MHS-64	12.5	6	814	855	1669	142	142	35	65	100
MHS-64	15.0	8	864	1013	1877	142	142	48	70	118
MHS-64	17.5	9	884	1092	1976	142	142	52	71	123
MHS-64	20.0	10	934	1171	2105	142	142	57	75	132
MHS-64	25.0	13	1004	1408	2412	142	142	70	85	155



Performance Curves • Model: MHS-64



Outlet: 75 mm • Max OD: 142 mm • Min Bore: 150 mm

Performance Chart • Model: MHS-65

Outlet Size 3" (75 mm)

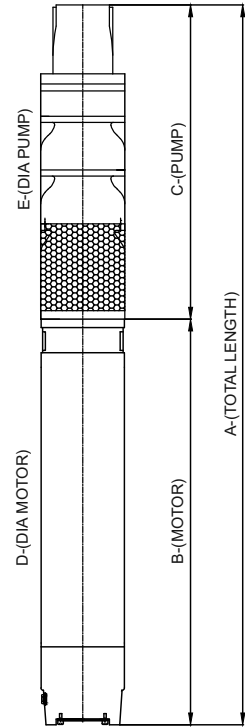
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			1200	1100	950	790	690	480	300
2	5.0		9	12	15	18	21	24	26
3	7.5		14	18	23	27	32	36	39
4	10.0		18	24	30	36	42	48	52
5	12.5		23	30	38	45	53	60	65
6	15.0		27	36	45	54	63	72	78
7	17.5		32	42	53	63	74	84	91
8	20.0		36	48	60	72	84	96	104
10	25.0		45	60	75	90	105	120	130

All Dimension are in mm

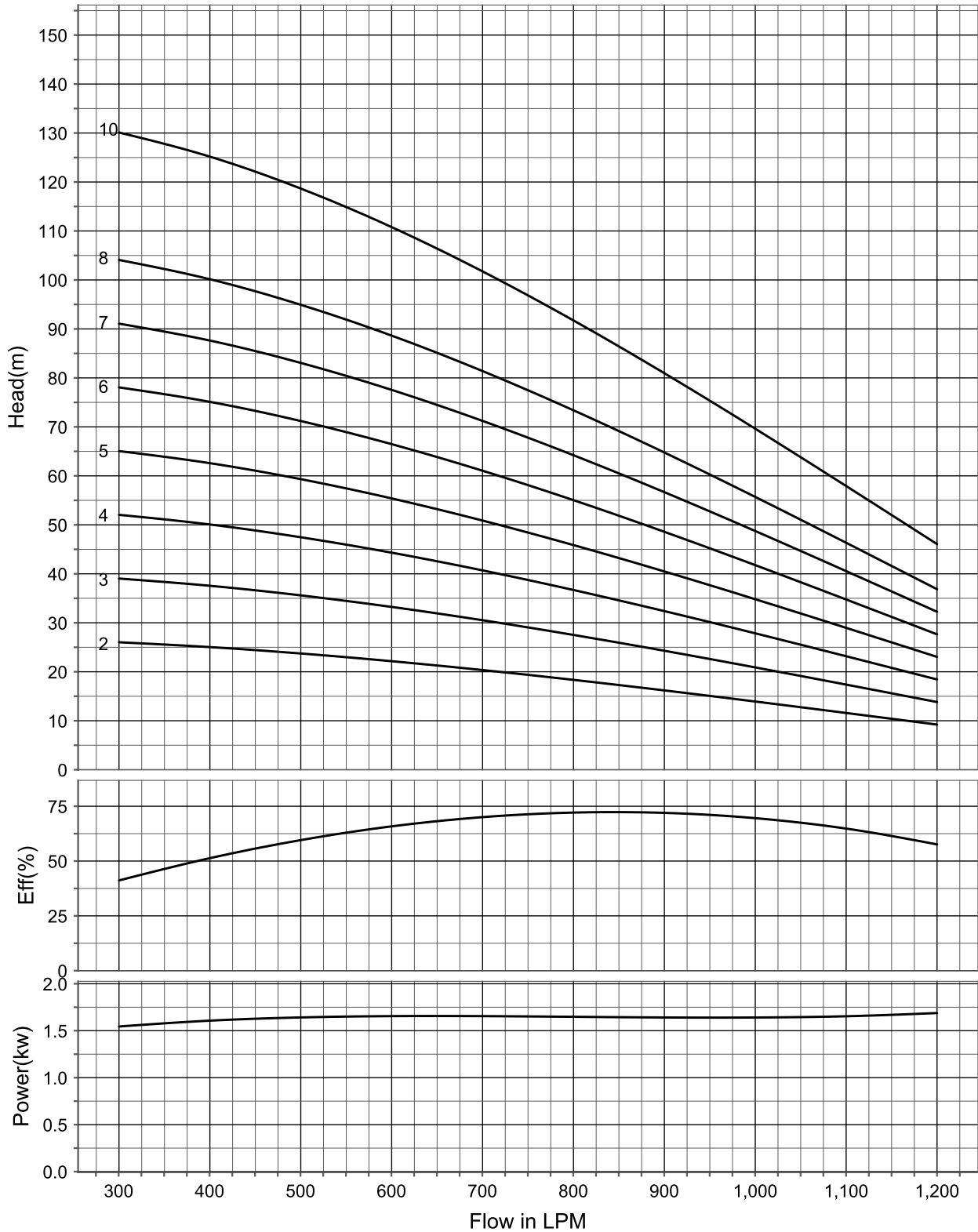
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: MHS-65

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
MHS-65	5.0	2	639	539	1178	142	142	20	44	64
MHS-65	7.5	3	704	618	1322	142	142	23	50	73
MHS-65	10.0	4	759	697	1456	142	142	27	57	84
MHS-65	12.5	5	814	776	1590	142	142	31	65	96
MHS-65	15.0	6	864	855	1719	142	142	35	70	105
MHS-65	17.5	7	884	934	1818	142	142	39	71	110
MHS-65	20.0	8	934	1013	1947	142	142	48	75	123
MHS-65	25.0	10	1004	1171	2175	142	142	57	85	142

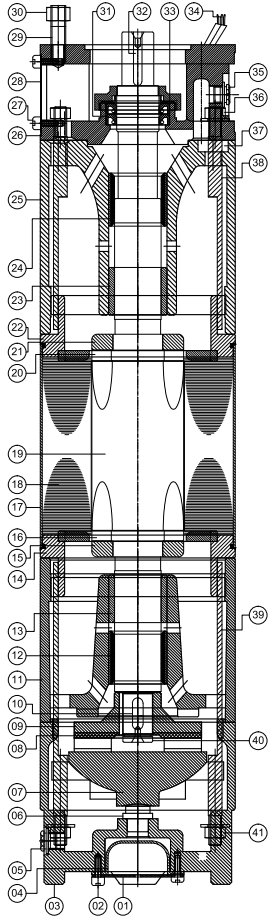


Performance Curves • Model: MHS-65



Outlet: 75 mm • Max OD: 142 mm • Min Bore: 150 mm

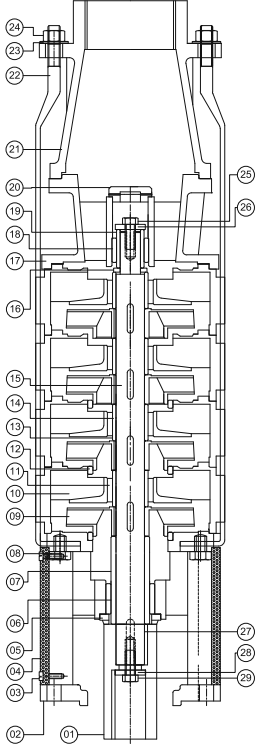
Cross Section - Motor (Standard)



SR.	DESCRIPTION	MATERIAL
1	BASE PLATE	M.S.
2	M5 SCREW BASE PLATE	S.S.
3	MOTOR BASE	C.I. IS-210 EG 200
4	RUBBER CUP	NITRILE RUBBER
5	MOTOR BASE DRAIN PLUG	BRASS
6	ROCKER SUPPORT	S.S.
7	BEARING SEAT	S.S. - C.I.
8	REVOLVING PLATE CIRCLIP	SPRING STEEL
9	REVOLVING PLATE	CARBON - C.I.
10	REVOLVING PLATE KEY	S.S.
11	LOWER HOUSING	C.I IS -210 EG 200
12	LOWER BEARING BUSH	RUBBER
13	LOWER BEARING BUSH	LTB-4
14	LOWER SIDE STATOR RING	M.S.
15	LOWER BALANCE RING	C.I. IS-2 10 EG 200
16	LOWER SIDE COPPER RING	COPPER
17	STATOR TUBE	S.S.
18	STATOR STAMPING	CRNO
19	ROTOR STAMPING	CRNO
20	UPPER SIDE COPPER RING	COPPER
21	UPPER BALANCE RING	C.I. IS-2 10 FG 200
22	UPPER SIDE STATOR RING	M.S

SR.	DESCRIPTION	MATERIAL
23	UPPER BEARING BUSH	LTB-4
24	UPPER BEARING BUSH	RUBBER
25	UPPER HOUSING	C.I. IS-210 FG 200
26	CONNECTING PIECE	C.I. IS-2 10 FG 200
27	M5 SCREW FOR STRAINER	S.S.
28	STRAINER	S.S.
29	CONNECTING STUD	S.S.
30	HEX NUT STUD	S.S.
31	OIL SEAL	STANDARD
32	COUPLING KEY	S.S.
33	SAND GUARD SEAT	RUBBER -S.S.
34	CABLE	STANDARD
35	CONNECTING PIECE DRAIN PLUG	BRASS
36	T - STUD HEX NUT & WASHER FOR UPPER SIDE	M.S.
37	RUBBER GROMMET	RUBBER
38	T - STUD UPPER SIDE	M.S.
39	T - STUD LOWER SIDE	M.S.
40	ROTOR COMPLETE	
41	T - STUD HEX NUT & WASHER FOR LOWER SIDE	S.S.

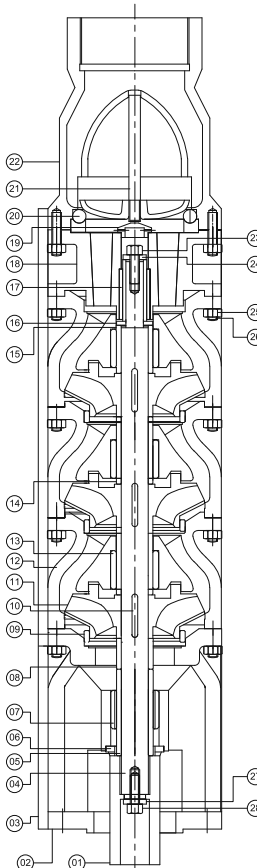
Cross Section - Pump R-81 to R-84



SR.	DESCRIPTION	MATERIAL
1	PUMP COUPLING	S.S. 410
2	ADOPTER	C.I. IS- 210 FG 200
3	M5 SCREW FOR STRAINER	S.S.
4	SUCTION STRAINER FOR ADOPTER	S.S. 304
5	COUNTER THRUST BEARING	L.T.B-4
6	ADOPTER BEARING BUSH	L.T.B-4
7	ADOPTER SLEEVE	S.S. 410
8	HEX BOLT FOR ADOPTER	S.S.
9	STAGE CASING	C.I. IS-210 FG 200
10	IMPELLER	S.S.
11	BUSH FOR STAGE CASING	L.T.B. 4 - RUBBER
12	NECK RING	RUBBER
13	STAGE SLEEVE	S.S.
14	PUMP SHAFT KEY	S.S.

SR.	DESCRIPTION	MATERIAL
15	PUMP SHAFT	S.S. 410
16	WASHER FOR UPPER SLEEVE	S.S.
17	DISCHARGE OUTLET	C.I. IS-210 FG 200
18	BUSH FOR D.O.L.	L.T.B-4
19	TOP SLEEVE	S.S.
20	ADJUSTING CAP	C.I. IS-210 FG 200
21	NRV BODY	C.I. IS-210 FG 200
22	T - STUD	M.S.
23	T - STUD WASHER	S.S.
24	NUT FOR T - STUD	S.S.
25	HEX BOLT FOR TOP SLEEVE	S.S.
26	WASHER FOR TOP SLEEVE	S.S.
27	KEY FOR COUPLING	S.S.
28	WASHER FOR COUPLING	S.S.
29	HEX BOLT FOR COUPLING	S.S.

Cross Section - Pump M-80 to M-86



SR.	DESCRIPTION	MATERIAL
1	PUMP COUPLING	S.S. 410
2	ADOPTER	C.I. IS-210 FG 200
3	CABLE GUARD	S.S.
4	PUMP SHAFT	S.S. 410
5	ADOPTER SLEEVE	S.S. 410
6	COUNTER THRUST BEARING	L.T.B-4
7	ADOPTER BEARING BUSH	L.T.B-4
8	DISTANCE SLEEVE	S.S. 410
9	NECK RING	RUBBER
10	IMPELLER KEY	S.S.
11	IMPELLER	S.S.
12	STAGE CASING	C.I. IS-210 FG 200
13	BUSH FOR STAGE CASING	L.T.B-4
14	STAGE SLEEVE	S.S. 410

SR.	DESCRIPTION	MATERIAL
15	UPPER SLEEVE	S.S. 410
16	UPPER SLEEVE WASHER	S.S. 410
17	BUSH FOR D.O.L.	L.T.B-4
18	DISCHARGE OUTLET	C.I. IS-210 FG 200
19	ADJUSTING CAP	C.I. IS-210 FG 200
20	NRV SUPPORTING RING	RUBBER
21	FLAP FOR NRV	M.S
22	NRV BODY	C.I. IS-210 FG 200
23	HEX BOLT FOR TOP SLEEVE	S.S.
24	WASHER FOR TOP SLEEVE	S.S.
25	STUD FOR STAGE	S.S.
26	NUT FOR STAGE	S.S.
27	WASHER FOR COUPLING	S.S.
28	HEX BOLT FOR COUPLING	S.S.

Performance Chart • Model: R-81

Outlet Size 3" (75 mm)

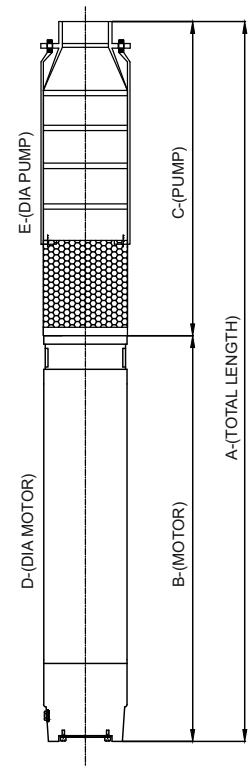
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			250	290	350	400	430	480	510
4	10.0		84	81	77	74	71	64	59
5	12.5		105	102	97	93	89	80	74
6	15.0		126	122	116	111	107	96	89
7	20.0		147	142	135	130	125	112	104
8	20.0		168	162	154	148	142	128	118
9	25.0		189	183	174	167	160	144	133
10	25.0		210	203	193	185	178	160	148
11	30.0		231	223	212	204	196	176	163
12	30.0		252	244	232	222	214	192	178
13	35.0		271	263	251	241	233	211	197
14	35.0		294	284	270	259	249	224	207
15	40.0		313	303	289	278	268	243	226

All Dimension are in mm

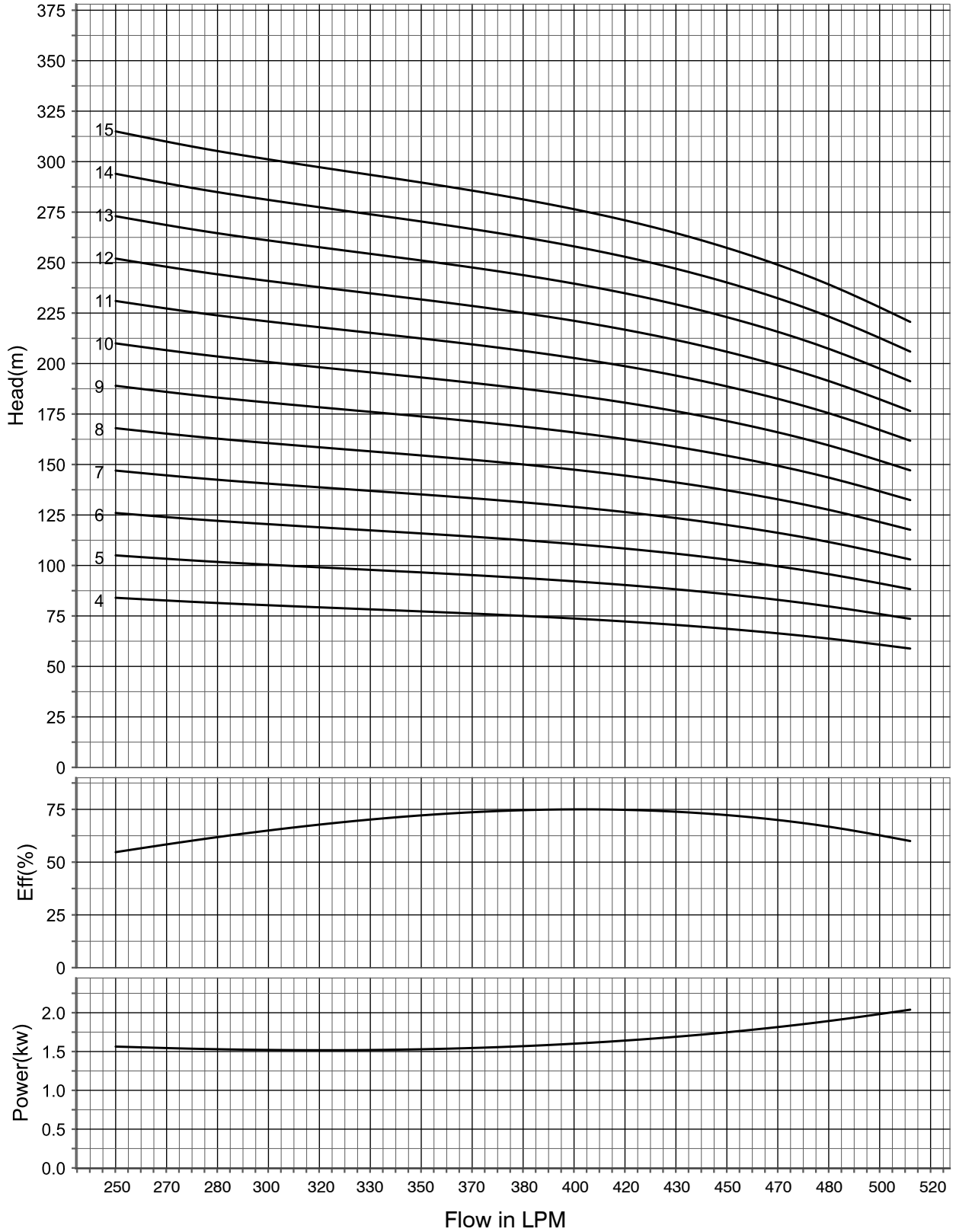
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: R-81

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-81	10.0	4	812	629	1441	184	184	40	90	130
R-81	12.5	5	832	679	1511	184	184	43	95	138
R-81	15.0	6	862	729	1591	184	184	47	100	147
R-81	20.0	7	952	779	1731	184	184	51	116	167
R-81	20.0	8	952	829	1781	184	184	55	116	171
R-81	25.0	9	982	879	1861	184	184	59	120	179
R-81	25.0	10	982	929	1911	184	184	63	120	183
R-81	30.0	11	1079	979	2058	184	184	66	137	203
R-81	30.0	12	1079	1029	2108	184	184	70	137	207
R-81	35.0	13	1129	1079	2208	184	184	75	149	224
R-81	35.0	14	1129	1129	2258	184	184	79	149	228
R-81	40.0	15	1169	1179	2348	184	184	82	155	237



Performance Curves • R-81



Outlet: 75 mm • Max OD: 188 mm • Min Bore: 200 mm

Performance Chart • Model: R-82

Outlet Size 3" (75 mm)

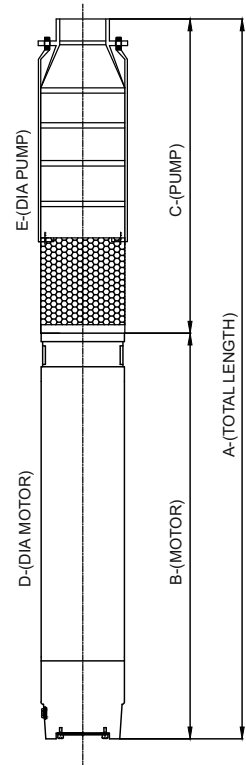
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			290	340	380	500	530	550	600
4	12.5		82	79	77	72	68	66	54
5	15.0		102	99	97	90	86	83	68
6	20.0		122	119	116	108	103	99	82
7	20.0		143	139	135	126	120	116	95
8	25.0		163	158	154	144	137	132	109
9	30.0		184	178	174	162	154	149	122
10	30.0		204	198	193	180	171	165	136
11	30.0		224	218	212	198	188	182	150
12	35.0		245	238	232	216	205	198	163
13	40.0		263	256	250	234	223	216	181
14	40.0		286	277	270	252	239	231	190
15	45.0		304	295	288	270	257	249	208

All Dimension are in mm

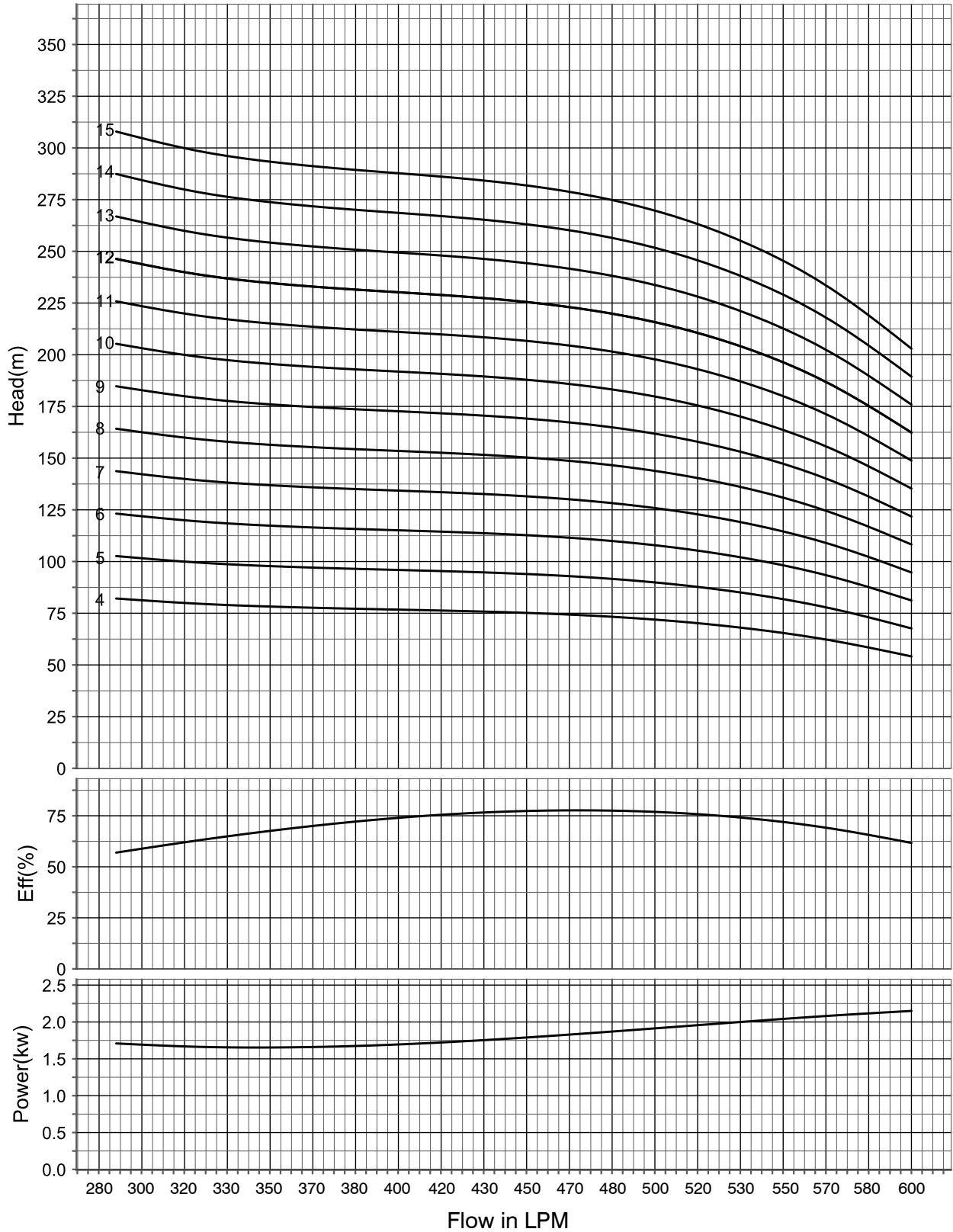
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: R-82

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-82	12.5	4	832	629	1461	184	184	40	95	135
R-82	15.0	5	862	679	1541	184	184	43	100	143
R-82	20.0	6	952	729	1681	184	184	47	116	163
R-82	20.0	7	952	779	1731	184	184	51	116	167
R-82	25.0	8	982	829	1811	184	184	55	120	175
R-82	30.0	9	1079	879	1958	184	184	59	137	196
R-82	30.0	10	1079	929	2008	184	184	63	137	200
R-82	30.0	11	1079	979	2058	184	184	67	137	204
R-82	35.0	12	1129	1029	2158	184	184	80	149	229
R-82	40.0	13	1169	1079	2248	184	184	75	154	229
R-82	40.0	14	1169	1129	2298	184	184	79	154	233
R-82	45.0	15	1209	1179	2388	184	184	83	159	242



Performance Curves • R-82



Outlet: 75 mm • Max OD: 188 mm • Min Bore: 200 mm

Performance Chart • Model: R-83

Outlet Size 3" (75 mm)

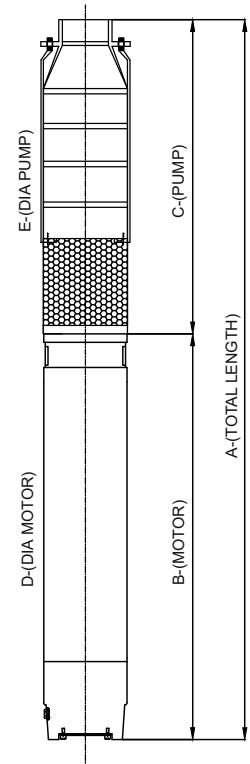
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	450	550	700	760	840	880	920
4	15.0		77	73	65	62	58	56	53
5	20.0		96	91	82	78	73	70	67
6	25.0		115	109	98	93	87	84	80
7	30.0		134	127	114	109	102	98	93
8	30.0		154	146	130	124	116	112	106
9	35.0		173	164	147	140	131	126	120
10	40.0		192	182	163	155	145	140	133
11	45.0		211	200	179	171	160	154	146
12	45.0		230	218	196	186	174	168	160
13	50.0		250	237	212	202	189	182	173
14	55.0		269	255	228	217	203	196	186
15	60.0		284	270	243	232	218	211	201

All Dimension are in mm

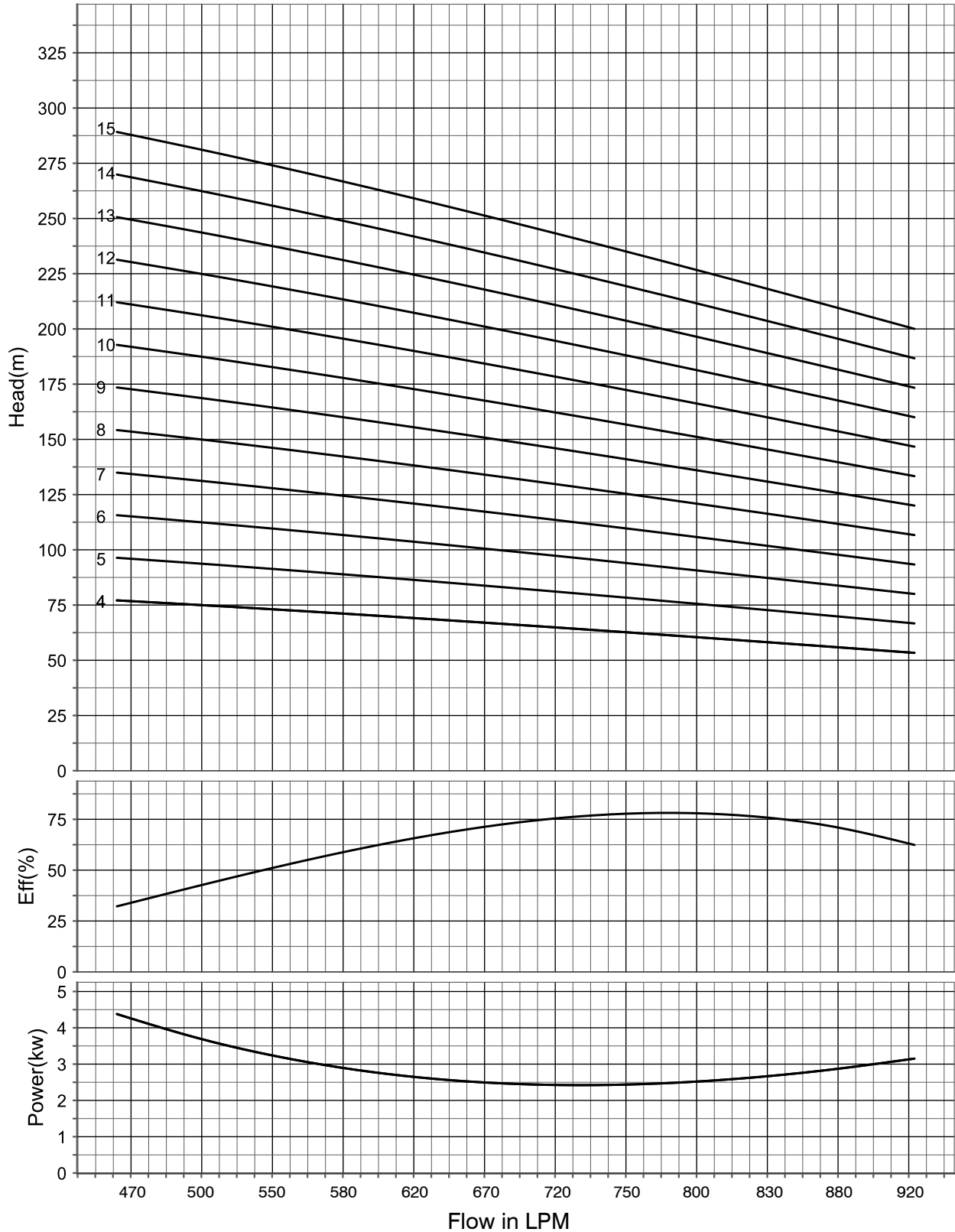
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: R-83

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-83	15.0	4	862	629	1491	184	184	40	100	140
R-83	20.0	5	952	679	1631	184	184	44	116	160
R-83	25.0	6	982	729	1711	184	184	48	120	168
R-83	30.0	7	1079	779	1858	184	184	52	137	189
R-83	30.0	8	1079	829	1908	184	184	56	137	193
R-83	35.0	9	1129	879	2008	184	184	60	149	209
R-83	40.0	10	1169	929	2098	184	184	64	154	218
R-83	45.0	11	1259	979	2238	184	184	67	159	226
R-83	45.0	12	1209	1029	2238	184	184	71	159	230
R-83	50.0	13	1259	1079	2338	184	184	75	169	244
R-83	55.0	14	1309	1129	2438	184	184	79	183	262
R-83	60.0	15	1359	1179	2538	184	184	83	190	273



Performance Curves • R-83



Outlet: 75 mm • Max OD: 188 mm • Min Bore: 200 mm

Performance Chart • Model: R-84

Outlet Size 3" (75 mm)

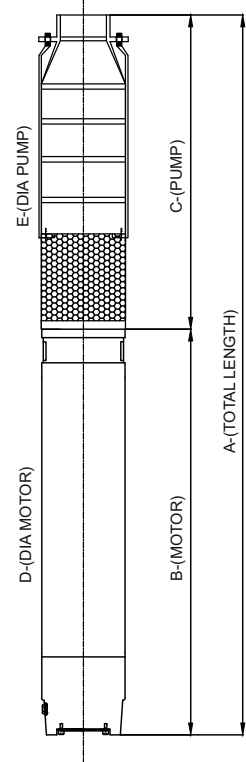
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			550	650	750	850	950	1000	1050
4	20.0		82	78	75	72	65	59	53
5	25.0		102	98	94	90	82	74	67
6	30.0		122	117	113	108	98	88	80
7	35.0		143	137	132	126	114	103	93
8	40.0		163	156	150	144	130	118	106
9	45.0		184	176	169	162	147	132	120
10	50.0		204	195	188	180	163	147	133
11	55.0		224	214	207	198	179	161	146
12	60.0		245	234	226	216	196	176	160

All Dimension are in mm

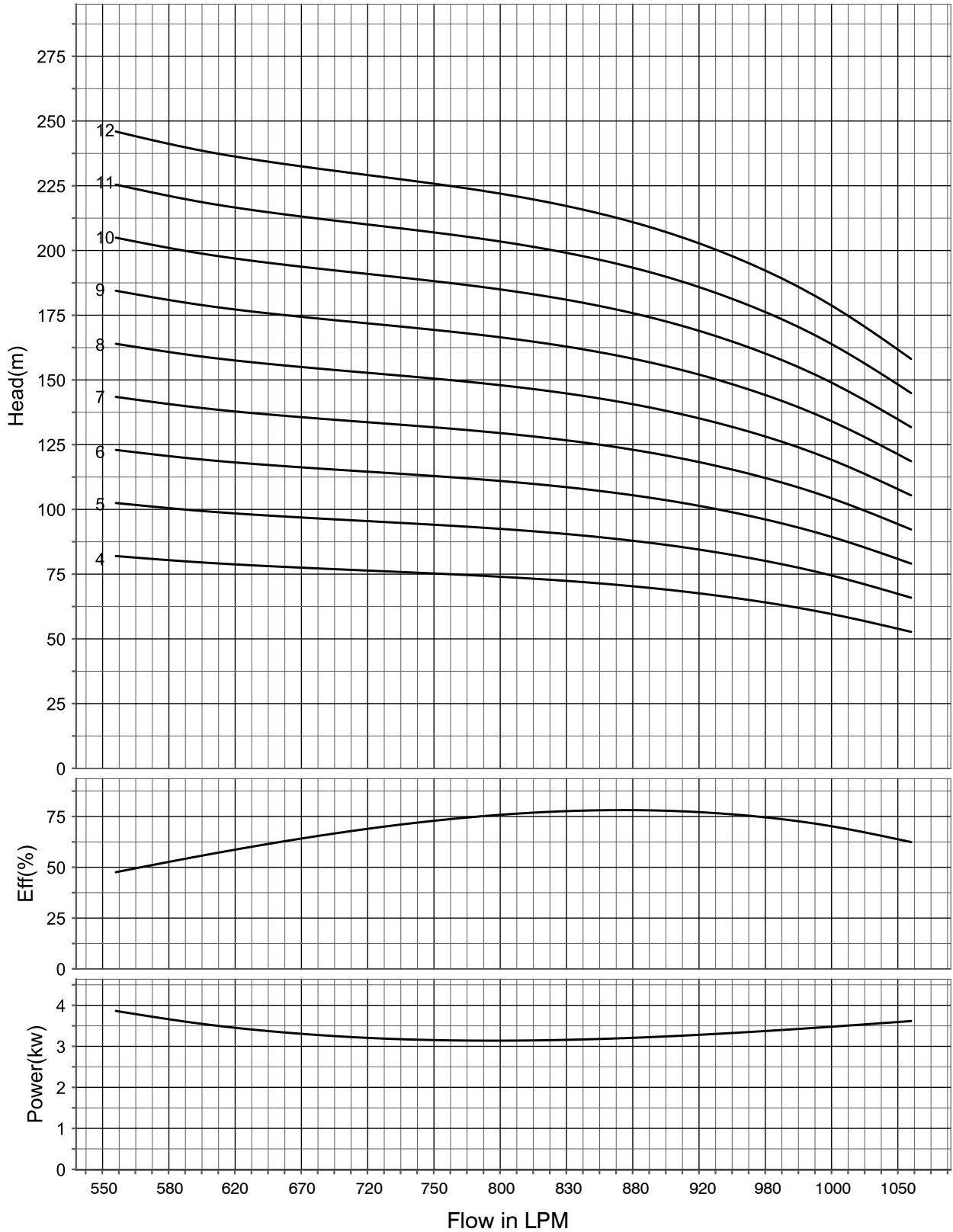
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: R-84

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-84	20.0	4	952	689	1641	184	184	51	116	167
R-84	25.0	5	982	754	1736	184	184	55	120	175
R-84	30.0	6	1079	819	1898	184	184	59	138	197
R-84	35.0	7	1129	884	2013	184	184	63	149	212
R-84	40.0	8	1169	949	2118	184	184	67	154	221
R-84	45.0	9	1209	1014	2223	184	184	72	159	231
R-84	50.0	10	1259	1079	2338	184	184	76	169	245
R-84	55.0	11	1309	1144	2453	184	184	80	183	263
R-84	60.0	12	1359	1209	2568	184	184	84	190	274



Performance Curves • R-84



Outlet: 75 mm • Max OD: 188 mm • Min Bore: 200 mm

Performance Chart • Model: M-80 T

Outlet Size 4" (100 mm)

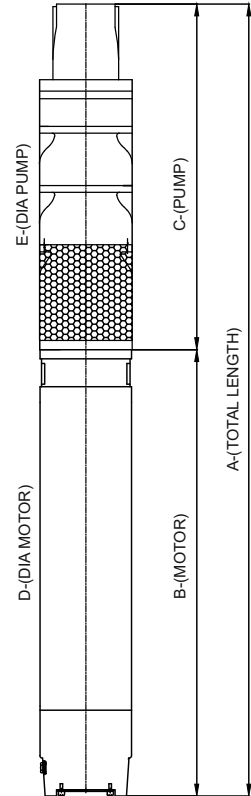
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			350	450	550	625	750	850	1000
3	10.0		54	51	48	45	39	36	30
4	12.5		72	68	64	60	52	48	40
5	15.0		90	85	80	75	65	60	50
6	20.0		108	102	96	90	78	72	60
7	20.0		126	119	112	105	91	84	70
8	25.0		144	136	128	120	104	96	80
9	30.0		162	153	144	135	117	108	90
10	30.0		180	170	160	150	130	120	100

All Dimension are in mm

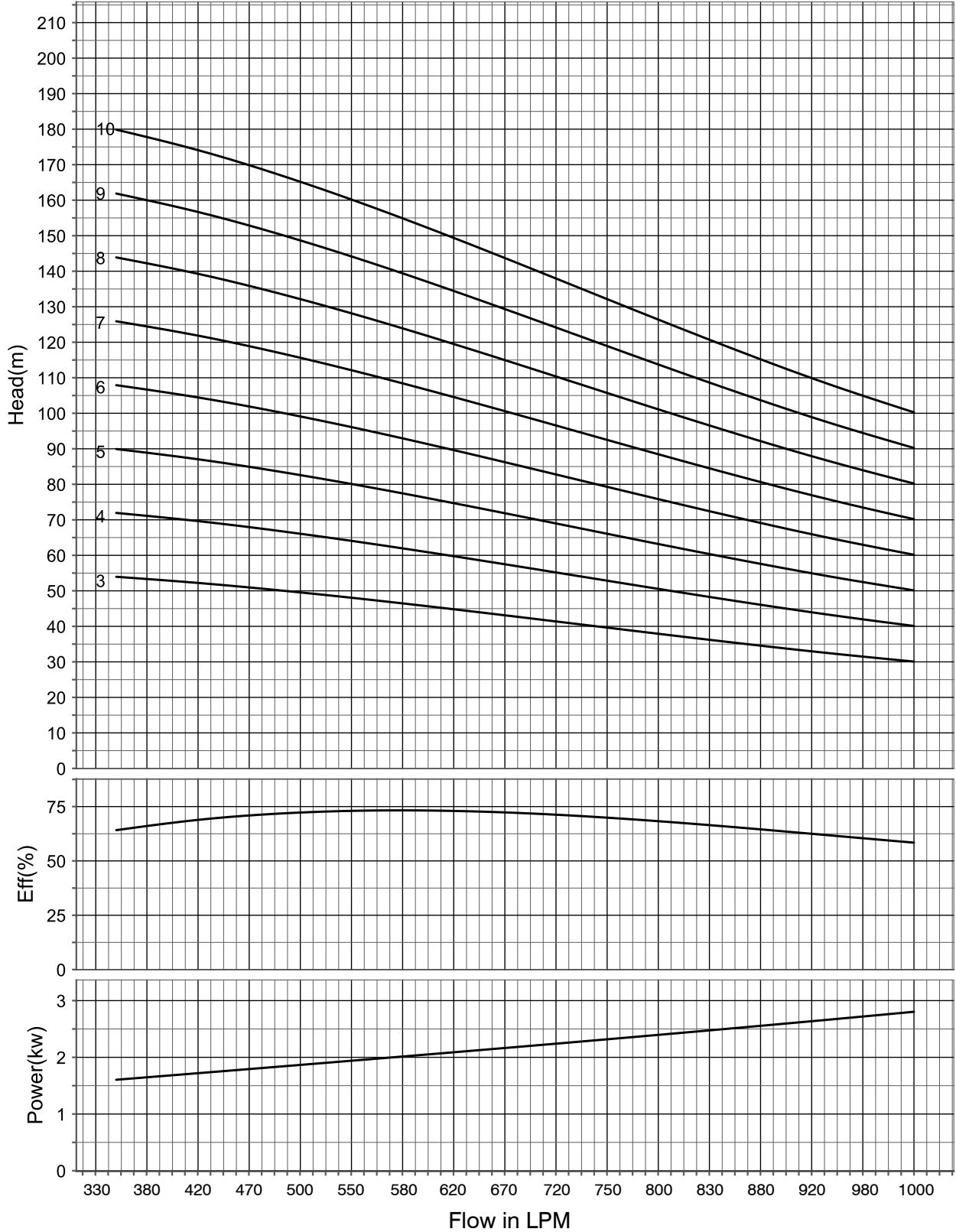
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-80 T

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-80 T	10.0	3	812	776	1588	184	180	50	90	140
M-80 T	12.5	4	832	906	1738	184	180	61	95	156
M-80 T	15.0	5	862	1105	1967	184	180	79	100	179
M-80 T	20.0	6	952	1235	2187	184	180	89	116	205
M-80 T	20.0	7	952	1365	2317	184	180	100	116	216
M-80 T	25.0	8	982	1495	2477	184	180	110	120	230
M-80 T	30.0	9	1079	1625	2704	184	180	120	138	258
M-80 T	30.0	10	1079	1755	2834	184	180	130	138	268



Performance Curves • M-80 T



Outlet: 100 mm • Max OD: 192 mm • Min Bore: 200 mm

Performance Chart • Model: M-80

Outlet Size 4" (100 mm)

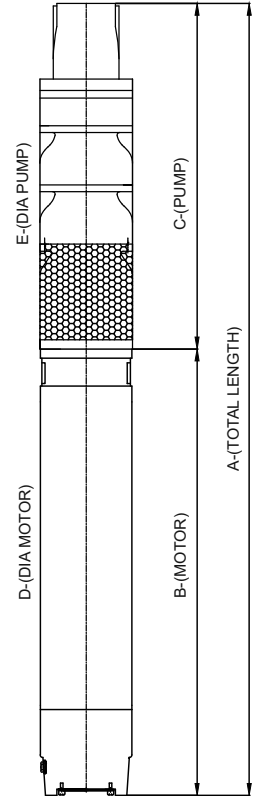
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			550	625	750	850	925	1050	1125
3	12.5		57	54	48	45	42	36	30
4	15.0		76	72	64	60	56	48	40
5	20.0		95	90	80	75	70	60	50
6	25.0		114	108	96	90	84	72	60
7	30.0		133	126	112	105	98	84	70
8	30.0		152	144	128	120	112	96	80
9	35.0		171	162	144	135	126	108	90
10	40.0		190	180	160	150	140	120	100

All Dimension are in mm

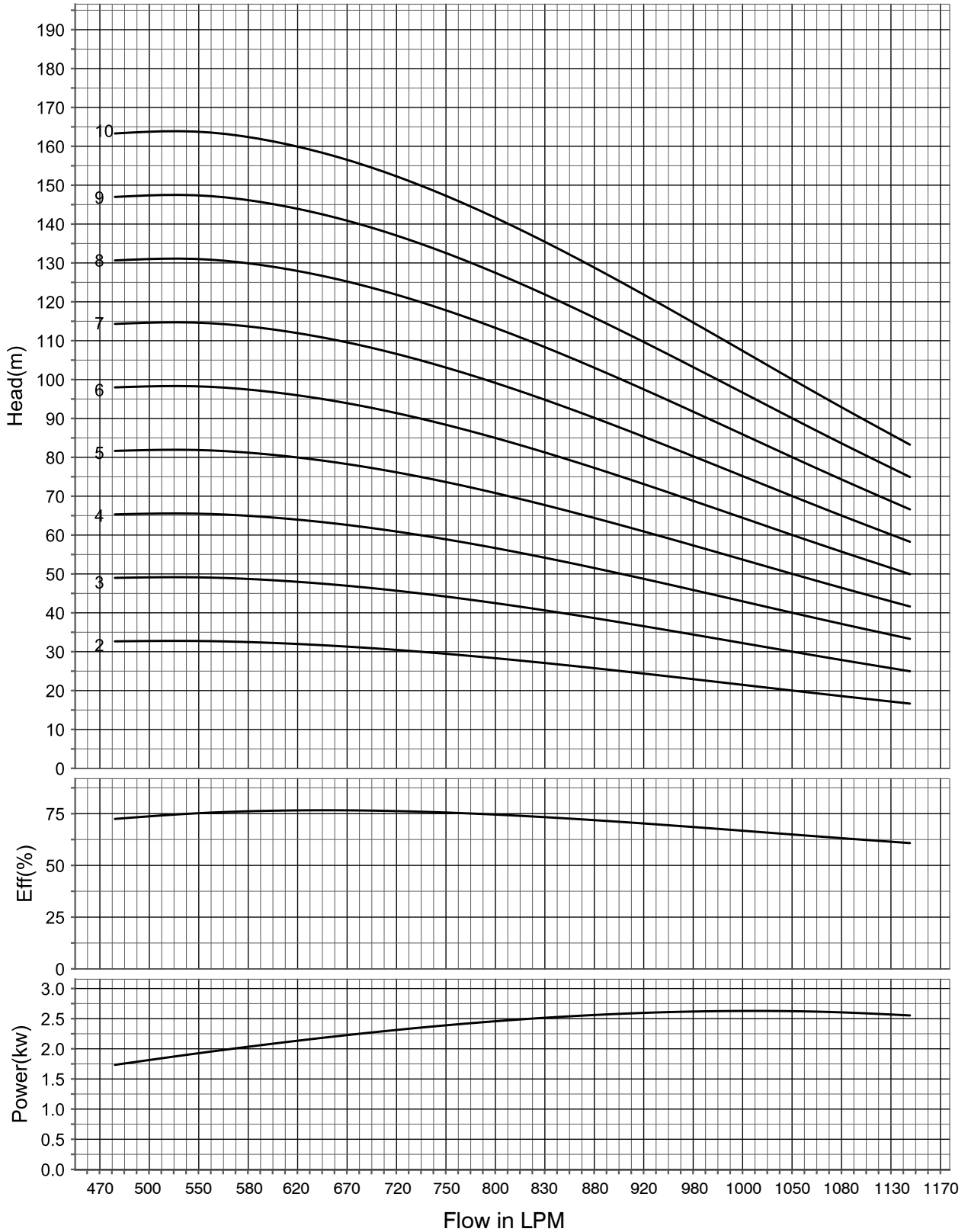
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-80

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-80	12.5	3	832	776	1608	184	180	51	95	146
M-80	15.0	4	862	906	1768	184	180	61	100	161
M-80	20.0	5	952	1105	2057	184	180	80	116	196
M-80	25.0	6	982	1235	2217	184	180	90	120	210
M-80	30.0	7	1079	1365	2444	184	180	101	138	239
M-80	30.0	8	1079	1495	2574	184	180	112	138	250
M-80	35.0	9	1129	1625	2754	184	180	122	149	271
M-80	40.0	10	1169	1755	2924	184	180	133	154	287



Performance Curves • M-80



Outlet: 100 mm • Max OD: 192 mm • Min Bore: 200 mm

Performance Chart • Model: M-81

Outlet Size 4" (100 mm)

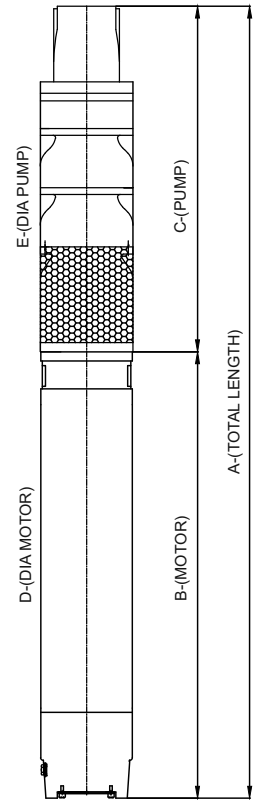
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			625	725	900	1000	1100	1175	1350
2	10.0		40	38	33	30	26	22	18
3	15.0		60	57	50	45	39	33	27
4	20.0		80	76	66	60	52	44	36
5	25.0		100	95	83	75	65	55	45
6	30.0		120	114	99	90	78	66	54
7	35.0		140	133	116	105	91	77	63
8	40.0		160	152	132	120	104	88	72
9	45.0		180	171	149	135	117	99	81
10	50.0		200	190	165	150	130	110	90

All Dimension are in mm

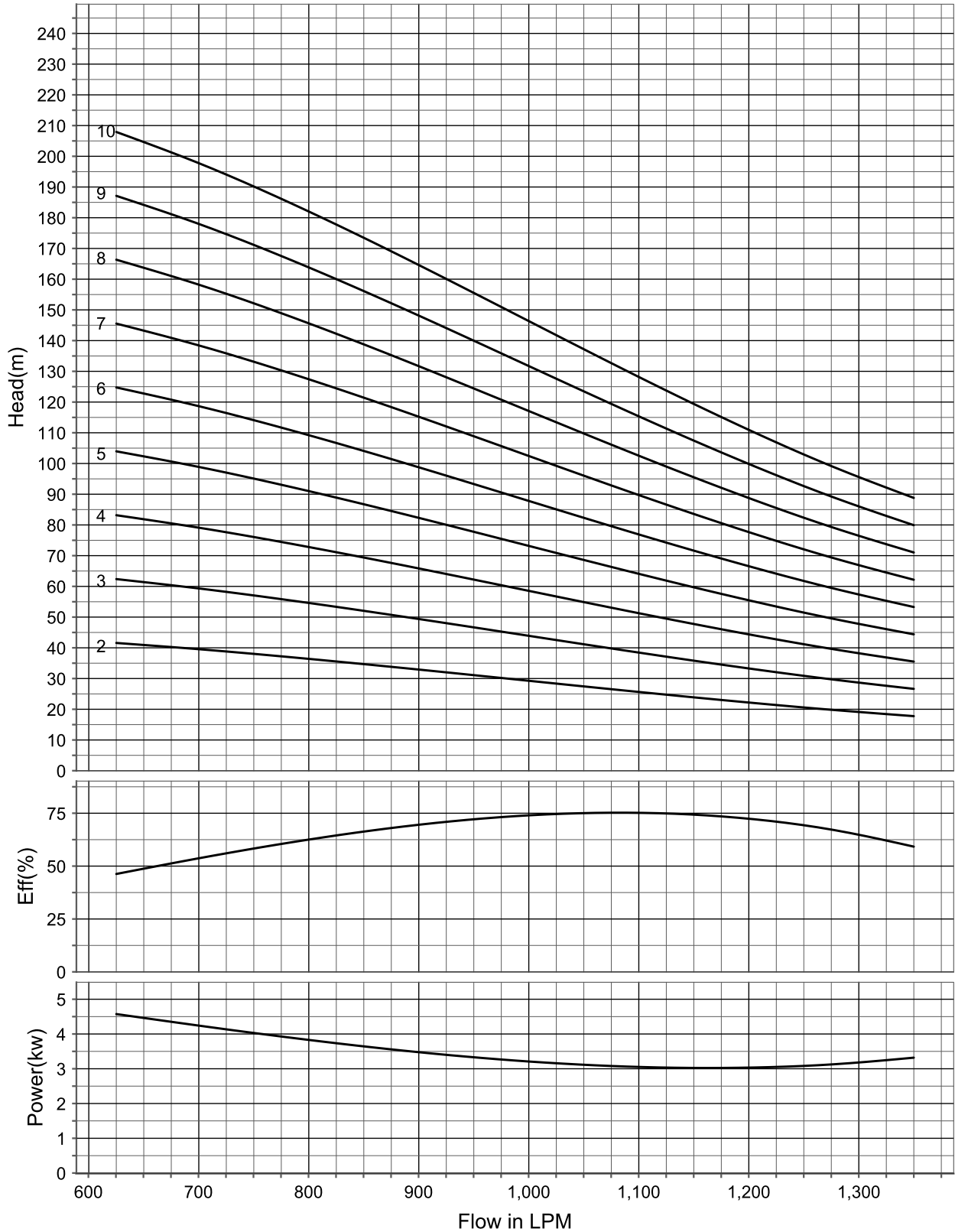
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-81

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-81	10.0	2	812	646	1458	184	180	40	90	130
M-81	15.0	3	862	776	1638	184	180	51	100	151
M-81	20.0	4	952	906	1858	184	180	62	116	178
M-81	25.0	5	982	1105	2087	184	180	81	120	201
M-81	30.0	6	1079	1235	2314	184	180	91	138	229
M-81	35.0	7	1129	1365	2494	184	180	102	149	251
M-81	40.0	8	1169	1495	2664	184	180	113	154	267
M-81	45.0	9	1209	1625	2834	184	180	124	159	283
M-81	50.0	10	1259	1755	3014	184	180	135	169	304



Performance Curves • M-81



Outlet: 100 mm • Max OD: 188 mm • Min Bore: 200 mm

Performance Chart • Model: M-82

Outlet Size 4" (100 mm)

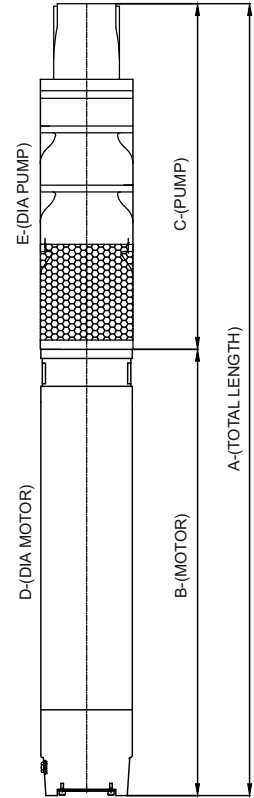
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			600	900	1125	1200	1400	1500	1600
2	12.5		45	38	33	30	22	18	15
3	20.0		68	57	50	45	33	27	23
4	25.0		90	76	66	60	44	36	30
5	30.0		113	95	83	75	55	45	38
6	35.0		135	114	99	90	66	54	45
7	45.0		158	133	116	105	77	63	53
8	50.0		180	152	132	120	88	72	60
9	55.0		203	171	149	135	99	81	68
10	60.0		226	190	166	150	110	90	76

All Dimension are in mm

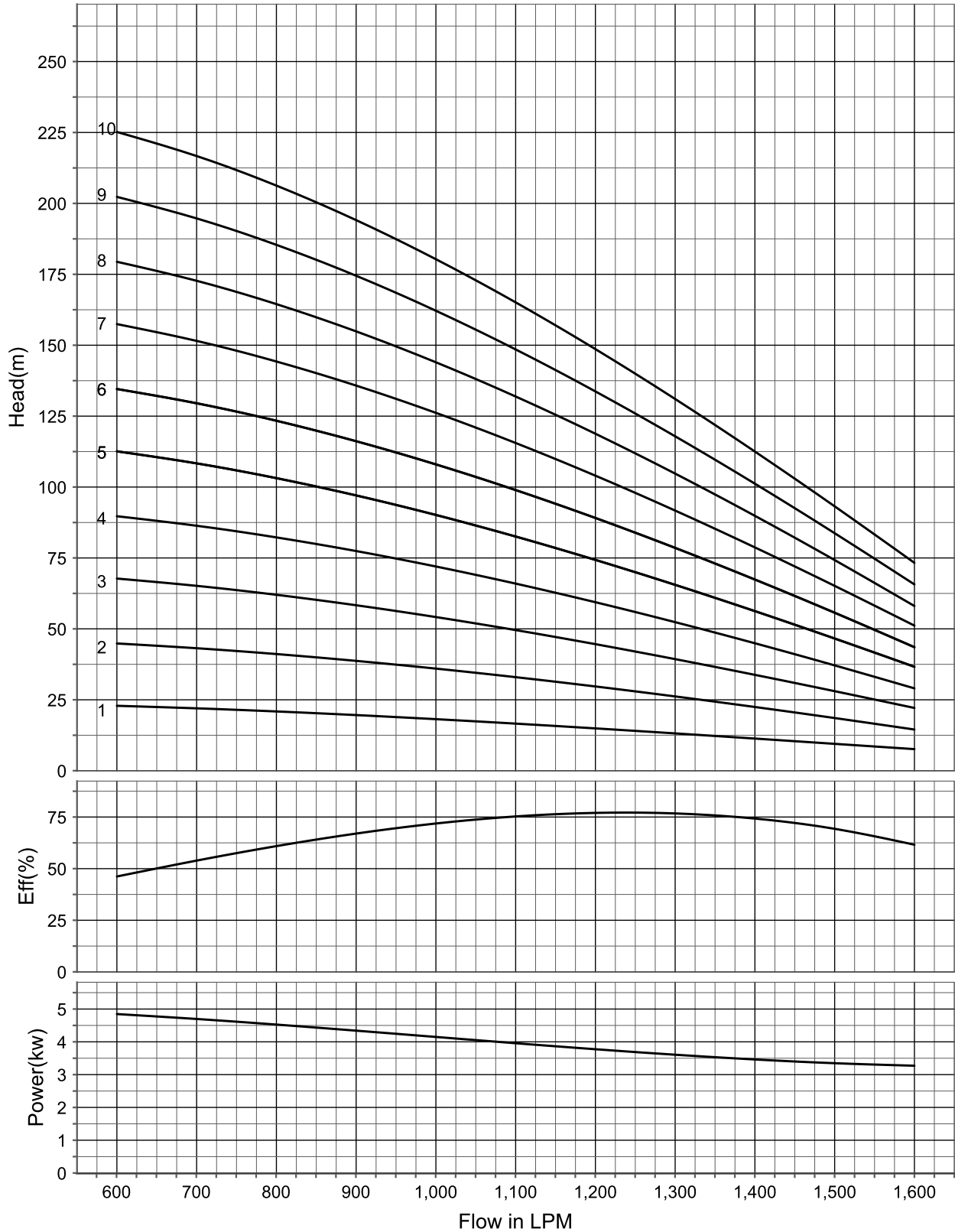
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-82

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-82	12.5	2	832	646	1478	184	180	40	95	135
M-82	20.0	3	952	776	1728	184	180	51	116	167
M-82	25.0	4	982	906	1888	184	180	62	120	182
M-82	30.0	5	1079	1105	2184	184	180	81	138	218
M-82	35.0	6	1129	1235	2364	184	180	92	149	241
M-82	45.0	7	1209	1365	2574	184	180	103	159	262
M-82	50.0	8	1259	1495	2754	184	180	114	169	283
M-82	55.0	9	1309	1625	2934	184	180	125	183	308
M-82	60.0	10	1359	1755	3114	184	180	136	190	326



Performance Curves • M-82



Outlet: 100 mm • Max OD: 188 mm • Min Bore: 200 mm

Performance Chart • Model: M-84

Outlet Size 5" (125 mm)

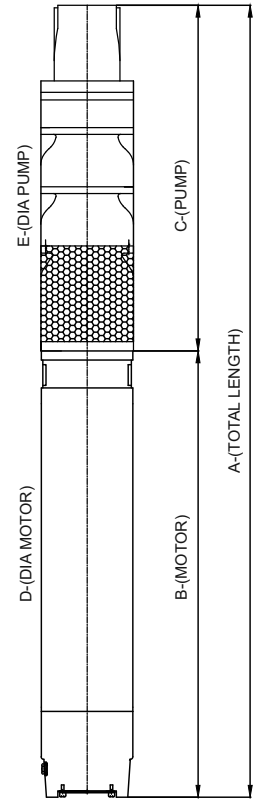
MODEL: M-84		DISCHARGE IN LPM						
STG.	H.P.	HEAD IN METERS						
		1550	1700	1775	1850	2000	2100	2250
2	15.0	30	28	26	24	20	18	14
3	20.0	45	42	39	36	30	27	21
4	30.0	60	56	52	48	40	36	28
5	35.0	75	70	65	60	50	45	35
6	45.0	90	84	78	72	60	54	42
7	50.0	105	98	91	84	70	63	49
8	55.0	120	112	104	96	80	72	56
9	60.0	135	126	117	108	90	81	63

All Dimension are in mm

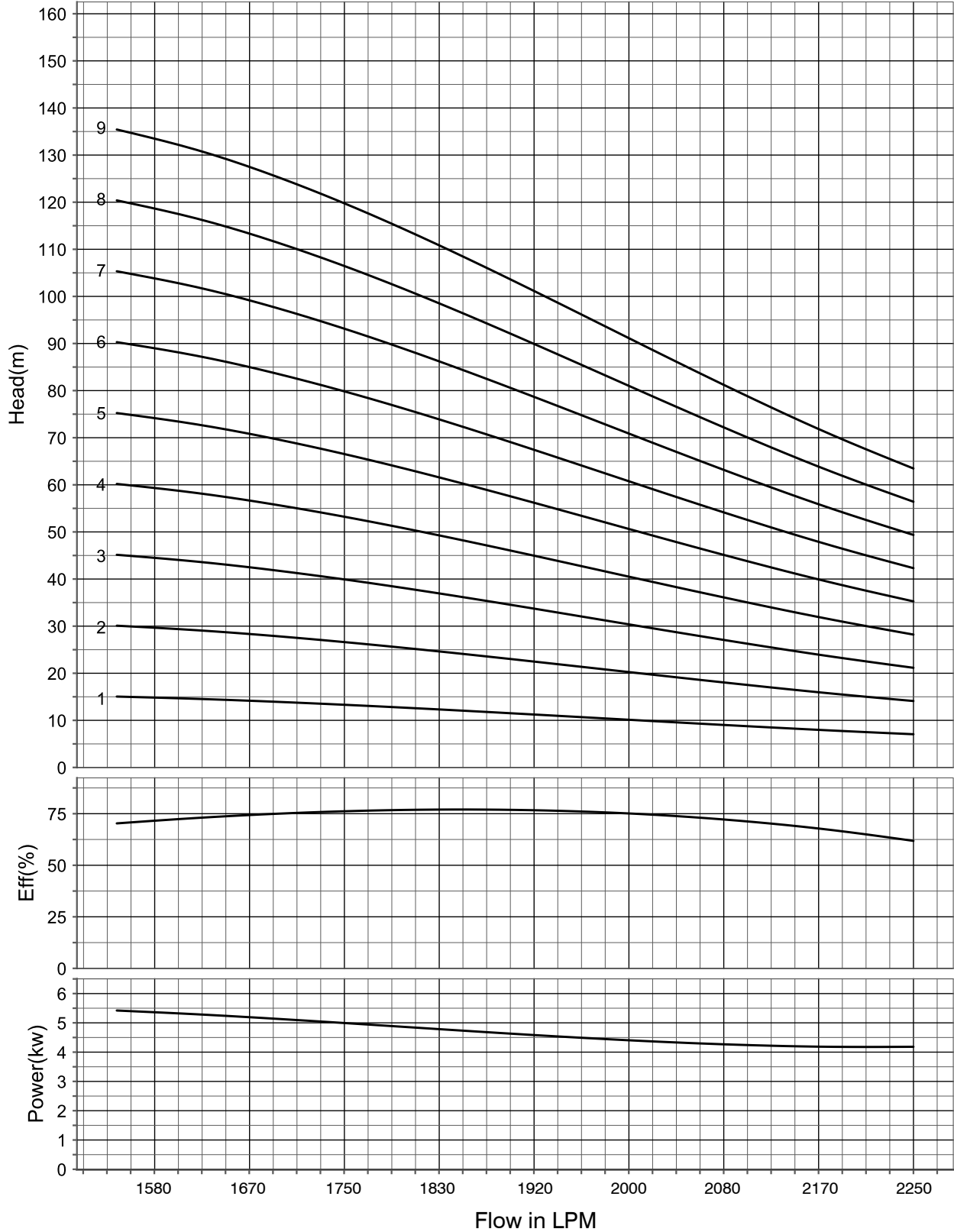
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-84

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-84	15.0	2	862	646	1508	184	180	50	100	150
M-84	20.0	3	952	776	1728	184	180	52	116	168
M-84	30.0	4	1079	906	1985	184	180	62	138	200
M-84	35.0	5	1129	1105	2234	184	180	80	149	229
M-84	45.0	6	1209	1235	2444	184	180	91	159	250
M-84	50.0	7	1259	1365	2624	184	180	101	169	270
M-84	55.0	8	1309	1495	2804	184	180	112	183	295
M-84	60.0	9	1359	1625	2984	184	180	122	190	312



Performance Curves • M-84



Outlet: 125 mm • Max OD: 192 mm • Min Bore: 200 mm

Performance Chart • Model: M-85

Outlet Size 5" (125 mm)

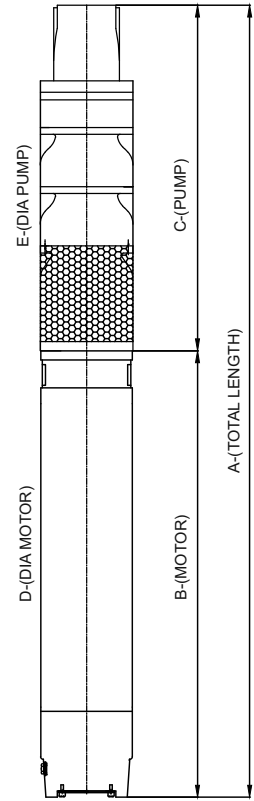
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			1175	1425	1575	1700	1875	1950	2050
2	15.0		36	34	32	30	28	26	24
3	25.0		54	51	48	45	42	39	36
4	35.0		72	68	64	60	56	52	48
5	45.0		90	85	80	75	70	65	60
6	50.0		108	102	96	90	84	78	72
7	55.0		126	119	112	105	98	91	84
8	60.0		144	136	128	120	112	104	96

All Dimension are in mm

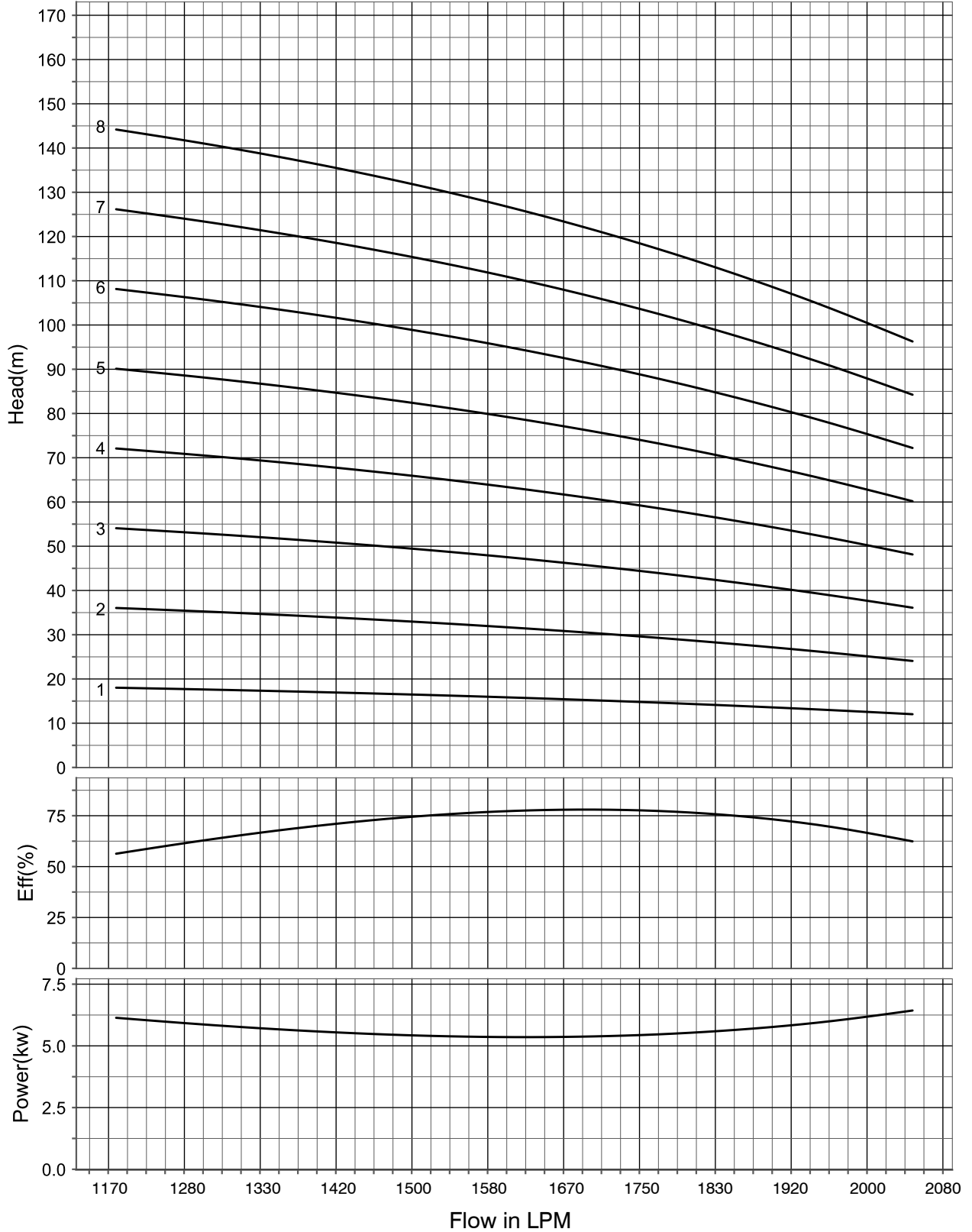
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-85

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-85	15.0	2	862	646	1508	184	180	50	100	150
M-85	25.0	3	982	776	1758	184	180	52	120	172
M-85	35.0	4	1129	906	2035	184	180	62	149	211
M-85	45.0	5	1209	1105	2314	184	180	80	159	239
M-85	50.0	6	1259	1235	2494	184	180	100	169	269
M-85	55.0	7	1309	1365	2674	184	180	102	183	285
M-85	60.0	8	1359	1495	2854	184	180	112	190	302



Performance Curves • M-85



Outlet: 125 mm • Max OD: 192 mm • Min Bore: 200 mm

Performance Chart • Model: M-86

Outlet Size 5" (125 mm)

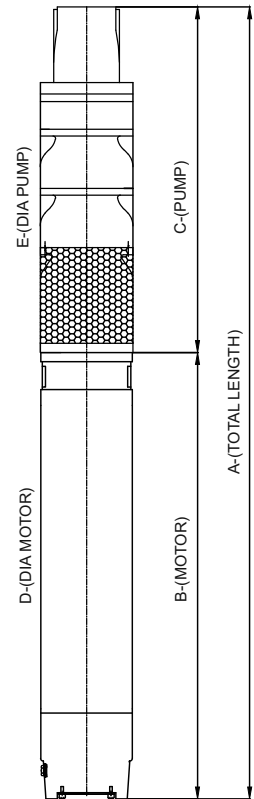
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			1300	1650	1750	1850	1925	2100	2200
2	20.0		38	34	32	30	28	24	22
3	30.0		57	51	48	45	42	36	33
4	40.0		76	68	64	60	56	48	44
5	45.0		95	85	80	75	70	60	55
6	55.0		114	102	96	90	84	72	66
7	60.0		133	119	112	105	98	84	77

All Dimension are in mm

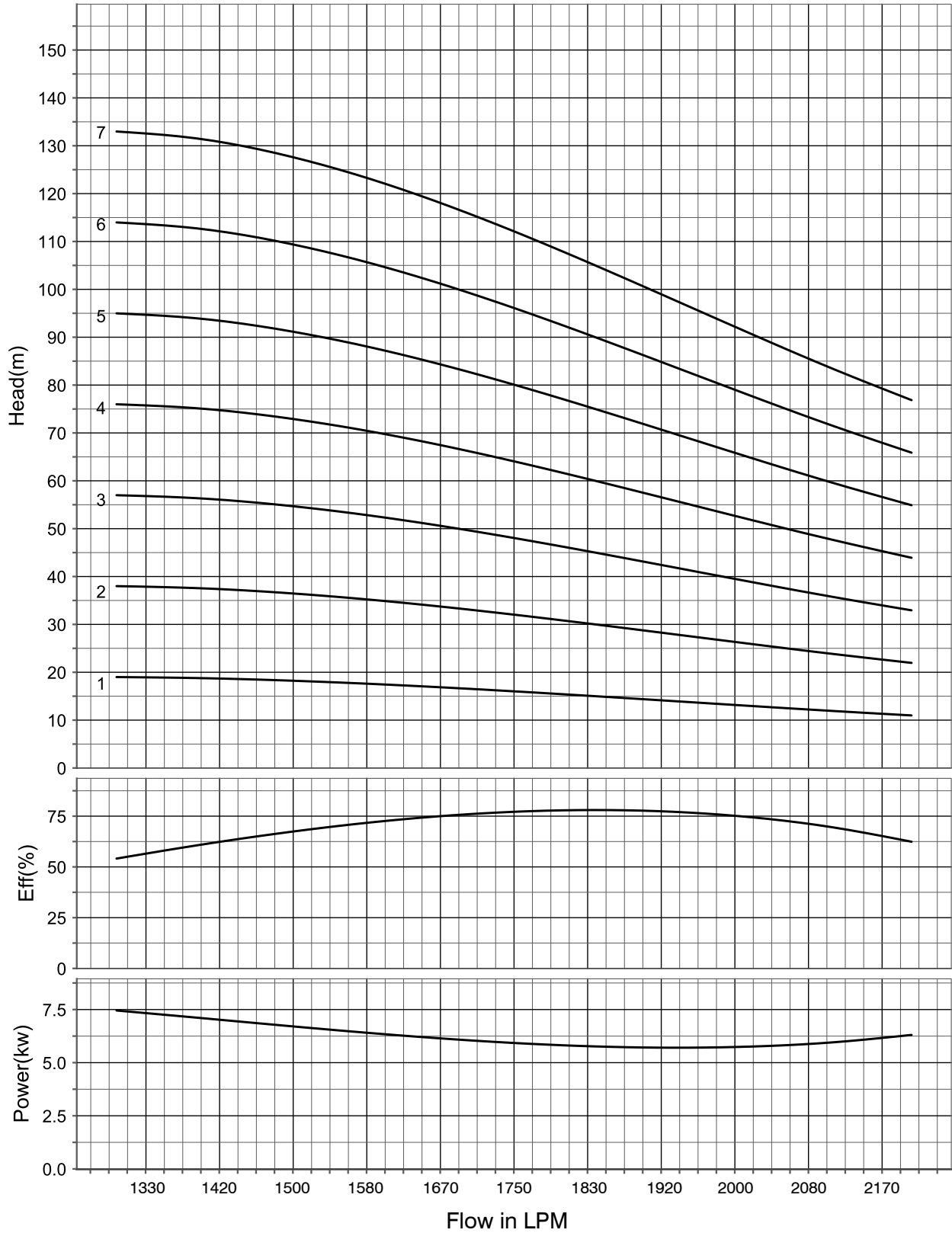
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-86

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-86	20.0	2	952	646	1598	184	180	42	116	158
M-86	30.0	3	1079	776	1855	184	180	52	138	189
M-86	40.0	4	1169	906	2075	184	180	62	154	216
M-86	45.0	5	1209	1105	2314	184	180	81	159	240
M-86	55.0	6	1309	1235	2544	184	180	91	183	274
M-86	60.0	7	1359	1365	2724	184	180	102	190	292



Performance Curves • M-86



Outlet: 125 mm • Max OD: 192 mm • Min Bore: 200 mm

Performance Chart • Model: M-80 TS

Outlet Size 4" (100 mm)

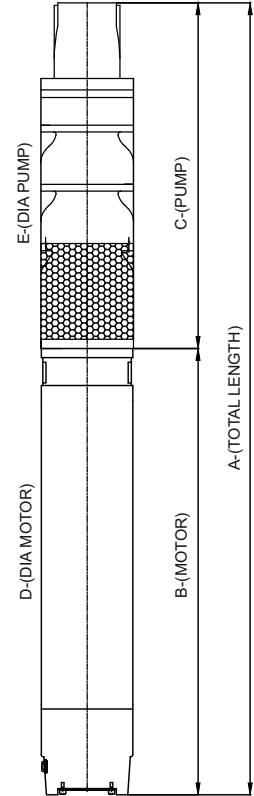
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			400	500	600	725	760	800	880
3	10.0		47	44	42	39	38	36	33
4	12.5		62	59	56	52	50	48	44
5	15.0		78	74	70	65	63	60	55
6	20.0		93	89	84	78	75	72	66
7	20.0		109	103	98	91	88	84	77
8	25.0		124	118	112	104	100	96	88
9	30.0		140	133	126	117	112	108	99
10	30.0		155	148	140	130	125	120	110

All Dimension are in mm

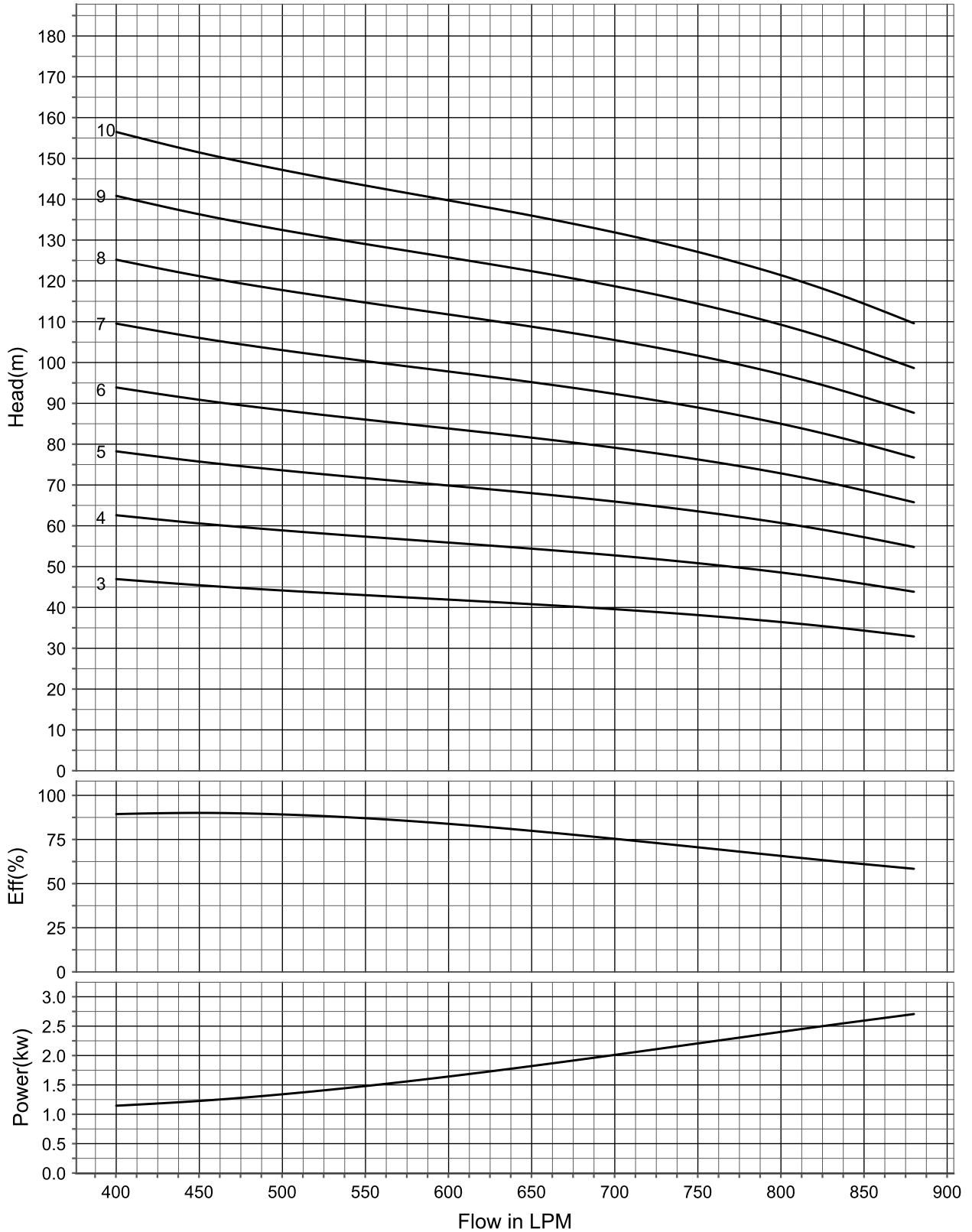
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-80 TS

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-80 TS	10.0	3	812	739	1551	184	166	43	95	138
M-80 TS	12.5	4	832	859	1691	184	166	50	95	145
M-80 TS	15.0	5	862	1032	1894	184	166	62	100	162
M-80 TS	20.0	6	952	1152	2104	184	166	69	116	185
M-80 TS	20.0	7	952	1272	2224	184	166	76	116	192
M-80 TS	25.0	8	982	1392	2374	184	166	83	120	203
M-80 TS	30.0	9	1079	1512	2591	184	166	90	138	228
M-80 TS	30.0	10	1079	1632	2711	184	166	98	138	236



Performance Curves • M-80 TS



Outlet: 100 mm • Max OD: 188 mm • Min Bore: 200 mm

Performance Chart • Model: M-80 S

Outlet Size 4" (100 mm)

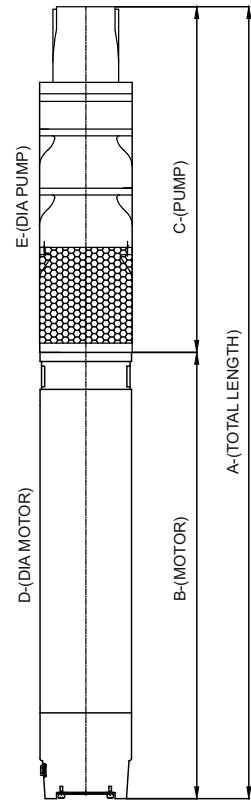
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			650	750	820	910	1000	1150	1250
3	12.5		49	47	44	42	39	34	30
4	15.0		65	62	59	56	52	45	40
5	20.0		81	78	74	70	65	56	50
6	25.0		98	93	89	84	78	68	60
7	30.0		114	108	104	98	91	84	70
8	30.0		130	124	118	112	104	90	80
9	35.0		146	140	133	126	117	101	90
10	40.0		163	155	148	140	130	113	100

All Dimension are in mm

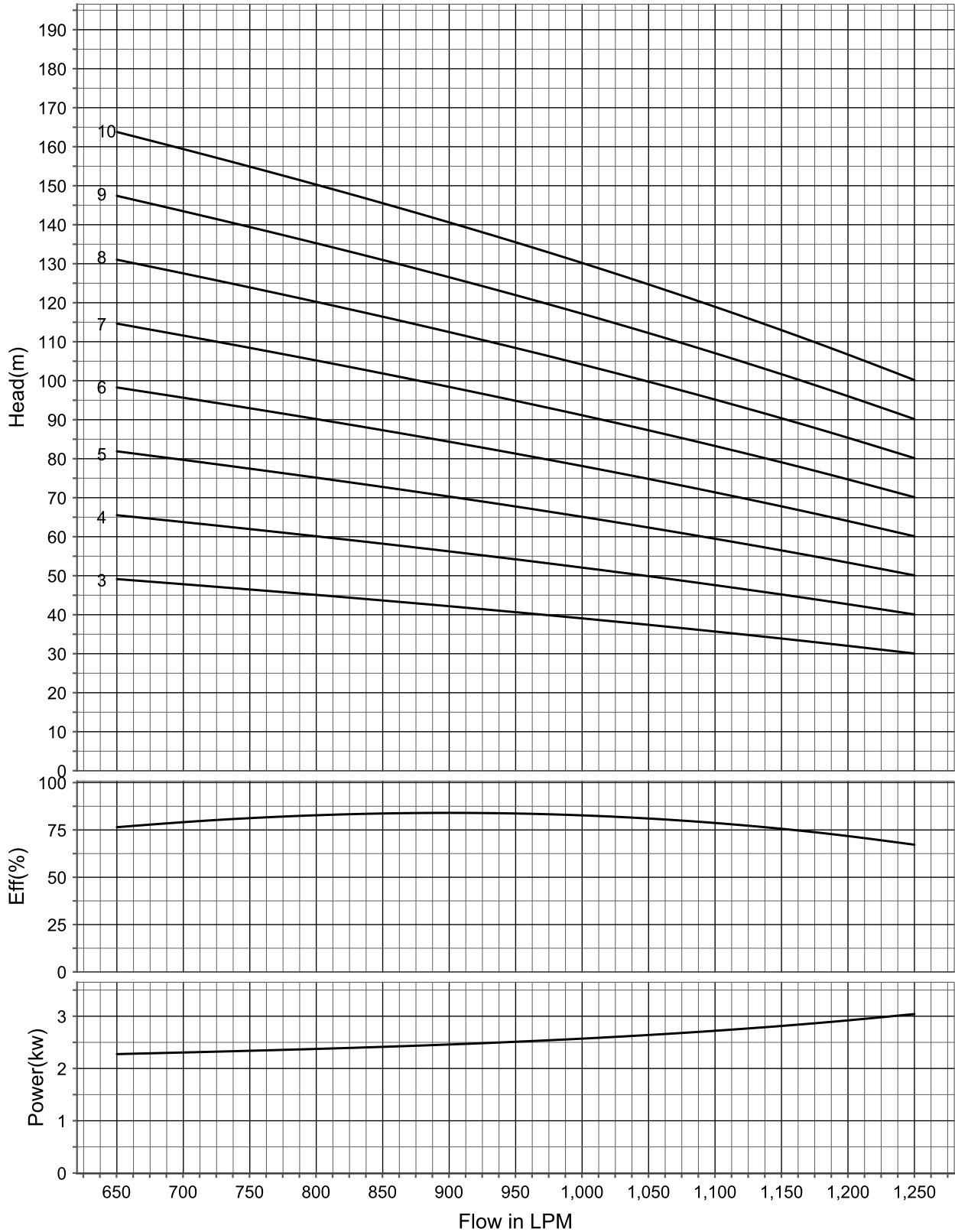
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-80 S

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-80 S	12.5	3	832	739	1571	184	166	43	95	138
M-80 S	15.0	4	862	859	1721	184	166	50	100	150
M-80 S	20.0	5	952	1032	1984	184	166	62	116	178
M-80 S	25.0	6	982	1152	2134	184	166	69	120	189
M-80 S	30.0	7	1079	1272	2351	184	166	76	138	214
M-80 S	30.0	8	1079	1392	2471	184	166	83	138	221
M-80 S	35.0	9	1129	1512	2641	184	166	91	149	240
M-80 S	40.0	10	1169	1632	2801	184	166	98	154	252



Performance Curves • M-80 S



Outlet: 100 mm • Max OD: 188 mm • Min Bore: 200 mm

Performance Chart • Model: M-81 S

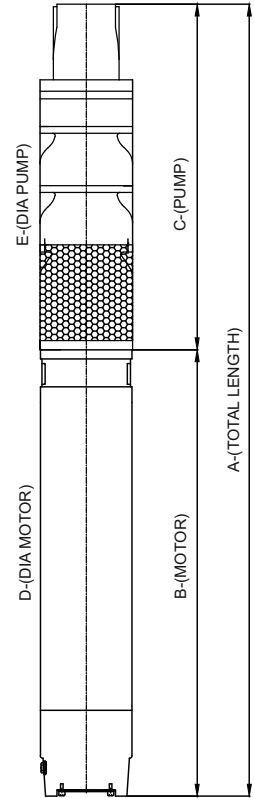
Outlet Size 4" (100 mm)

STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			780	870	990	1150	1220	1310	1420
2	10.0		34	33	31	28	27	24	20
3	15.0		50	49	46	42	40	36	30
4	20.0		67	65	61	56	53	48	40
5	25.0		84	81	76	70	66	60	50
6	30.0		101	98	92	84	80	72	60
7	35.0		117	114	107	98	93	84	70
8	40.0		134	130	122	112	106	96	80
9	45.0		151	146	137	126	119	108	90
10	50.0		168	163	153	140	133	120	100

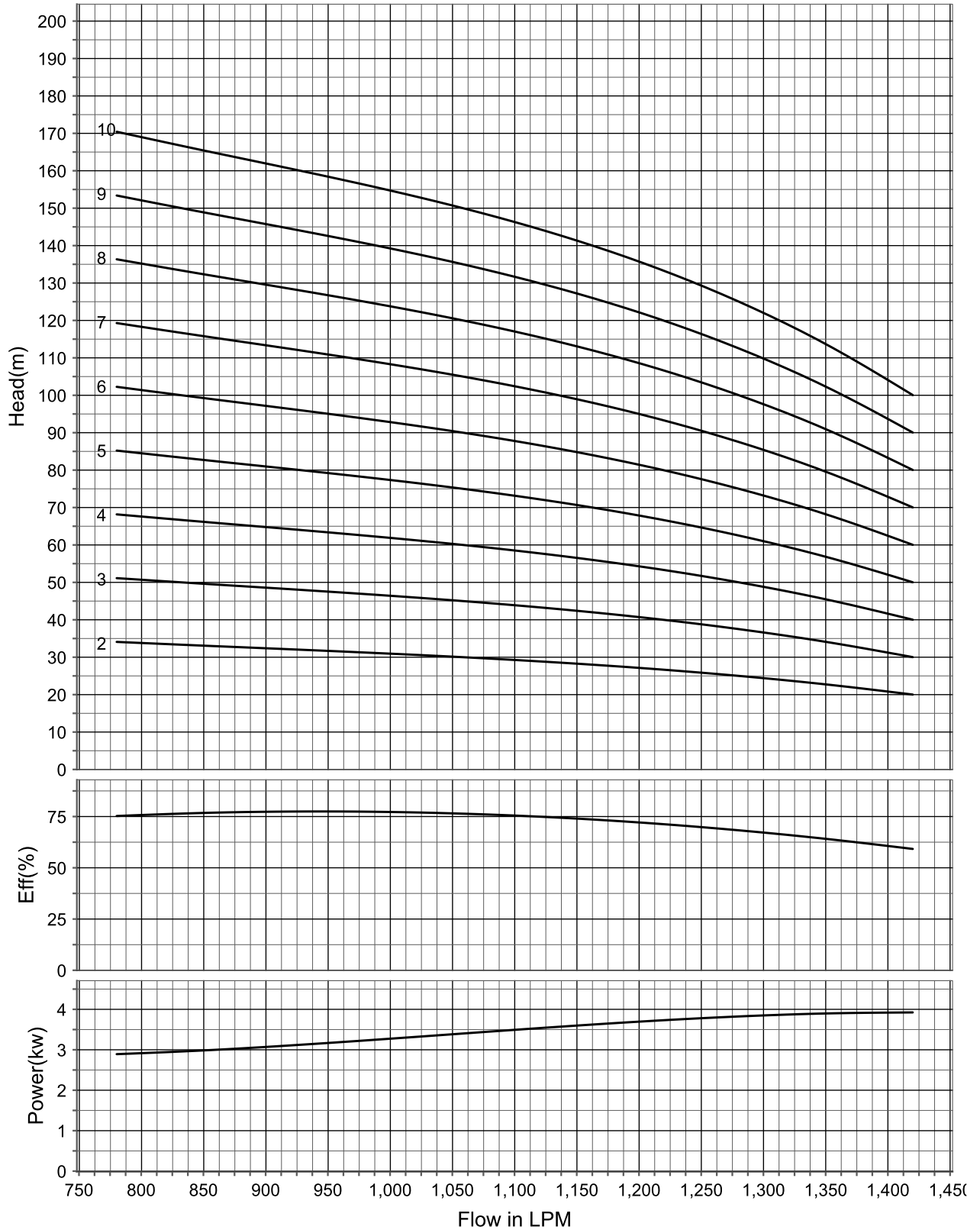
All Dimension are in mm		
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-81 S

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-81 S	10.0	2	812	619	1431	184	166	36	95	131
M-81 S	15.0	3	862	739	1601	184	166	43	100	143
M-81 S	20.0	4	952	859	1811	184	166	51	116	167
M-81 S	25.0	5	982	1032	2014	184	166	62	120	182
M-81 S	30.0	6	1079	1152	2231	184	166	69	138	207
M-81 S	35.0	7	1129	1272	2401	184	166	76	149	225
M-81 S	40.0	8	1169	1392	2561	184	166	84	154	238
M-81 S	45.0	9	1209	1512	2721	184	166	91	159	250
M-81 S	50.0	10	1259	1632	2891	184	166	98	169	267



Performance Curves • M-81 S



Outlet: 100 mm • Max OD: 188 mm • Min Bore: 200 mm

Performance Chart • Model: M-82 S

Outlet Size 4" (100 mm)

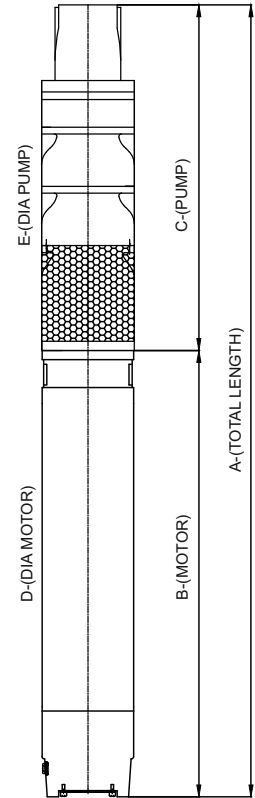
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			950	1100	1250	1370	1450	1520	1620
2	12.5		34	32	30	28	26	23	20
3	20.0		51	48	45	42	39	35	30
4	25.0		68	64	60	56	52	46	40
5	30.0		85	80	75	70	65	58	51
6	35.0		102	96	90	84	78	69	61
7	45.0		119	112	105	98	91	81	71
8	50.0		136	128	120	112	104	92	81
9	55.0		153	144	135	126	117	104	91
10	60.0		170	160	150	140	130	115	101

All Dimension are in mm

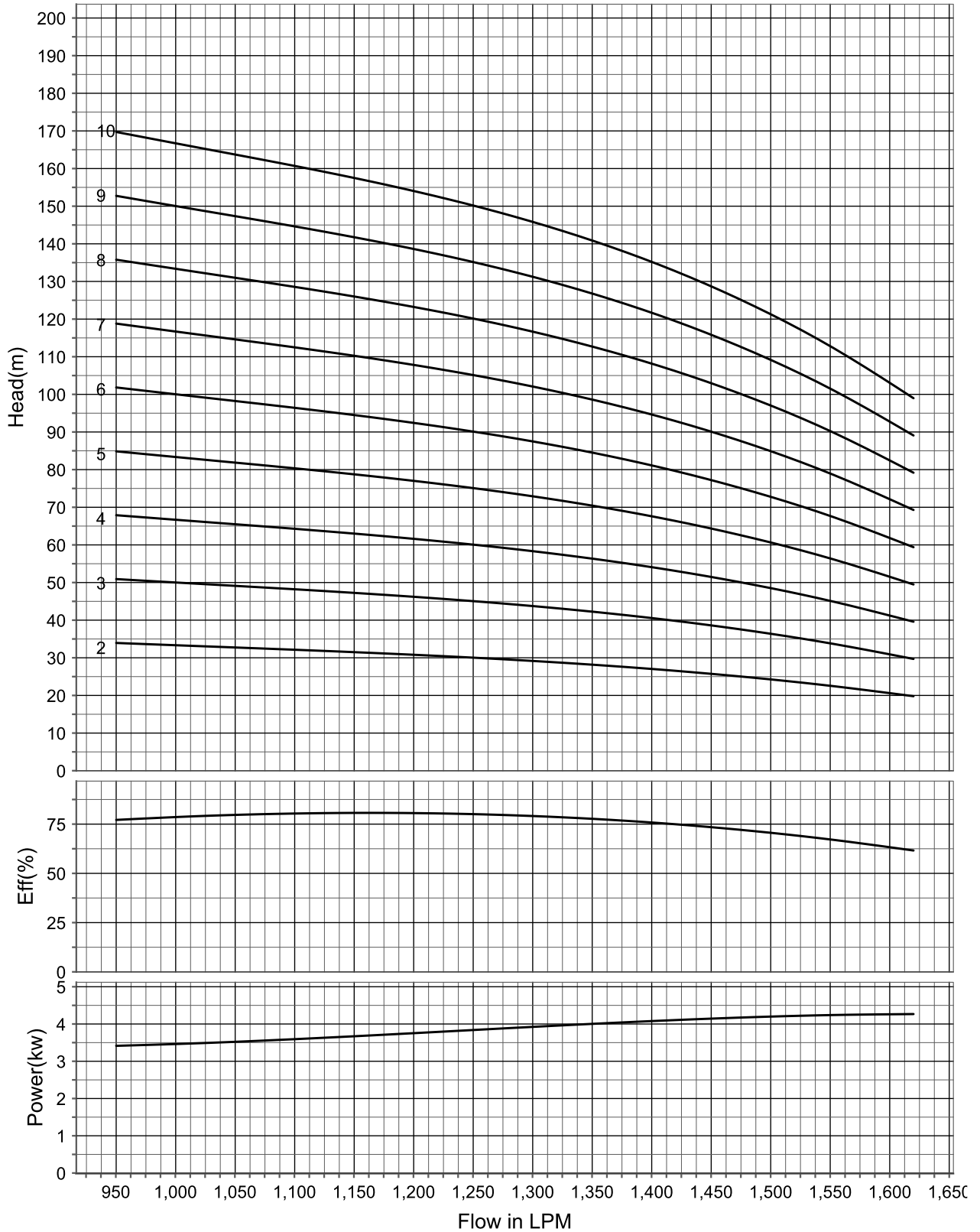
A	B	C
±20	±10	±10

GA Drawing Dimension • Model: M-82 S

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-82 S	12.5	2	832	619	1451	184	166	36	95	131
M-82 S	20.0	3	952	739	1691	184	166	44	116	160
M-82 S	25.0	4	982	859	1841	184	166	51	120	171
M-82 S	30.0	5	1079	1032	2111	184	166	62	138	200
M-82 S	35.0	6	1129	1152	2281	184	166	70	149	219
M-82 S	45.0	7	1209	1272	2481	184	166	77	159	236
M-82 S	50.0	8	1259	1392	2651	184	166	84	169	253
M-82 S	55.0	9	1309	1512	2821	184	166	91	183	274
M-82 S	60.0	10	1359	1632	2991	184	166	98	189	287



Performance Curves • M-82 S



Outlet: 100 mm • Max OD: 188 mm • Min Bore: 200 mm

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Multistage centrifugal pump made of Graded CI or MOC of your choice for well diameters of 75 mm (3 inches) and above. Pumps available with single-phase and three-phase motor.

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HP : 1 to 150 HP

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Open well Submersible pumpsets are specially designed for its robustness and for its applications under the submerged condition. These are used in domestic & irrigation. MBH Pumps is proud to manufacture this product upto 50 HP.

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