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S系列单级双吸卧式中开离心泵

S Series single-stage double-suction
horizontal split centrifugal pump



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使用该产品前，请仔细阅读说明书！

Please read the instructions carefully before using this product!

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S系列单级双吸卧式中开离心泵 S Series single-stage double-suction horizontal split centrifugal pump

■ 概述

S型泵是单级双吸、卧式中开离心泵。供输送清水及物理化学性质类似于水的液体。液体最高温度不得超过80℃，适合工厂、矿山、城市、电站的给排水，农田排涝灌溉和各种水利工程。

本系列泵符合GB/T3216、GB/T5657标准。

■ 结构说明

本型泵的吸入口与吐出口均在水泵轴心线下方，与轴线垂直呈水平方向，泵壳中开，检修时无需拆卸进水、排出管路及电动机（或其他原动机）。从联轴器向泵的方向看去，水泵为顺时针方向旋转。根据需要也可生产逆时针旋转的泵，但订货时应特殊提出。

本型号的主要零件有：泵体(1)、泵盖(2)、叶轮(3)、轴(4)、双吸密封环(5)、轴套(6)、轴承(15)等。除轴的材料为低碳素钢外，其余均为铸铁制成。根据介质不同可换其它材质。

泵体与泵盖构成叶轮的工作室，在进、出水法兰上制有安装真空表和压力表的管螺孔，进出水法兰的下部制有放水的管螺孔。

叶轮经过静平衡校验，用轴套和两侧的轴套螺母固定，其轴向位置可以通过轴套螺母进行调整，叶轮的轴向力利用其叶片的对称布置达到平衡，可能还有一些剩余轴向力则由轴端的轴承承受。

泵轴由两个单列向心球轴承支承，轴承装在泵体两端的轴承体内，用黄油润滑。双吸密封环用以减少水泵叶轮处泄漏水。

水泵通过弹性联轴器与电动机直接传动。（如果必须采用橡胶带传动时，应另设支架）。

轴封为填料密封，为了冷却润滑密封腔和防止空气漏入泵内，在填料之间装有填料环，水泵工作时少量高压水通过泵盖中开面上的梯形凹槽流入填料腔，起水封作用。

■ Summary

Model S pump is a single-stage double-suction horizontal split centrifugal pump and used to transport pure water and the liquid of both physical and chemical nature similar to those of water, the maximum temperature of which must not be over 80, suitable for water supply and drainage in factories, mines, cities and electric stations, waterlogged land drainage and irrigation of farming land and various hydraulic projects.

This series pump comply with the standards of GB/T3216 and GB/T5657.

■ About the structure

Both inlet and outlet of this pump are placed under the axial line, horizontally and vertical to the axial line, the pump casing is opened in the middle so it is unnecessary to remove the water inlet and outlet pipelines and motor (or other prime movers). The pump moves CW viewing from the clutch to it. The pump moving CCW can also be made, but it should be specially noted at order.

The main parts of the pump are: pump casing(1), pump cover(2), impeller(3), shaft(4), dual-suction seal ring(5), muff(6), bearing(15) etc. and all of them, except the axle which is made of quality carbon steel, are made of cast iron. The material may be replaced with others upon different media.

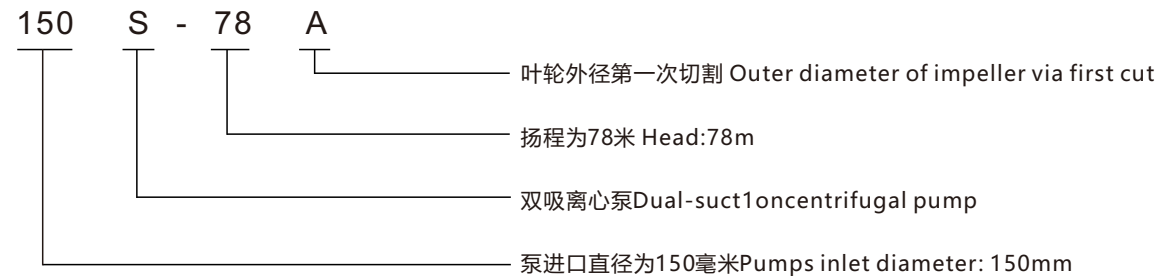
Both pump casing and cover form the working chamber of the impeller and there are threaded holes for mounting vacuum and pressure meters on the flanges at both inlet and outlet and for water draining on the lower side of them.

The impeller is static-balance calibrated, fixed with the muff and the muff nuts in both sides and its axial position can be adjusted via the nuts and axial force gets balanced by means of the symmetrical arrangement of its blades, there may be residual axial force which is borne by the bearing at the axle end.

The pump shaft is supported by two single-column centripetal ball bearings, which are mounted inside of the bearing body on both ends of the pump and lubricated with grease. The dual suction seal ring is used to reduce the leak at the impeller. The pump is driven directly by means of connecting to it via an elastic clutch. (Set up a stand additionally in case of a rubber band driving).

The shaft seal is packing seal, to cool and lubricate the seal cavity and prevent air from getting into the pump, there is a packing ring between the packing. A small volume of high pressure water flows into the packing cavity via the tapered beard during the pump's working to act as a water seal.

■ 型号意义 Model Meaning



■ 装配与拆卸

- 1、装配转子部件：依次将叶轮、轴套、轴套螺母、填料套、填料环、填料压盖、机封、机封压盖、挡水圈、轴承部件装在泵轴上，并套上双吸密封环，然后装上联轴器。
- 2、分别检查转子部件上叶轮的密封部位外圆，轴套外圆其径向跳动应不超过下表的规定：

名义直径 Nominal diameter	< 50	50~120	120~250	250~500	500~800	800~1250
跳动量 Jumping capacity	0.03	0.04	0.05	0.06	0.08	0.10

- 3、将转子部件装在泵体上，调整叶轮，使其轴向位置位于两侧双吸密封环的中间后加以固定，并将轴承体压盖由固定螺钉紧固。
- 4、装上填料（填料密封时），放好中开面纸垫，盖上泵盖，拧紧螺尾锥销后，拧紧泵盖螺母，最后装上填料压盖。但不要将填料压得太紧，填料过紧会使轴套发热，耗费功率较大；也不要压得太松，过松会使液体渗漏大，水泵效率降低。使用机械密封时，调整机封压缩量，使其无泄漏。装配完成后，用手转动泵轴，没有擦碰现象，转动比较轻滑均匀即可。拆卸可按上述装配顺序相反地进行。

■ Assembly and disassembly

- 1.Assembly of the rotor's parts: in turn mount the impeller, muff, muff nut, packing sleeve, packing ring, packing gland, mechanical seal, mechanical seal bland, water retaining ring and bearing on the pump shaft, put on the dual-suction seal ring and then the clutch.
2. Check the outer circles of the impeller's seal and the muff on the rotor separately, the radial jumping of which should not be over the settings in the table below.

3. Mount the rotor on the pump casing and adjust the impeller to have its axial position in the middle of the dual-suction seal ring in both sides and then fixed, then fix the gland of the bearing's body with the fixing screws.
4. Put on the packing (in case of a packing seal), the paper pad on the middle opened face and the pump cover and tighten the threaded-tail conical pin first and then cover's nut. Mount the packing gland, but do not press the packing too tightly, otherwise the muff may get heated to leave a bigger power consumption; while not too loose, or a big leak of liquid and reduced pump efficiency may result in. If mechanical seal is used, adjust compress capacity of mechanical seal to ensure no leak with it. After assembly, move the pump shaft with hand, it should be smooth and uniform without touch. Disassembly can be made with the steps contrary to above ones.

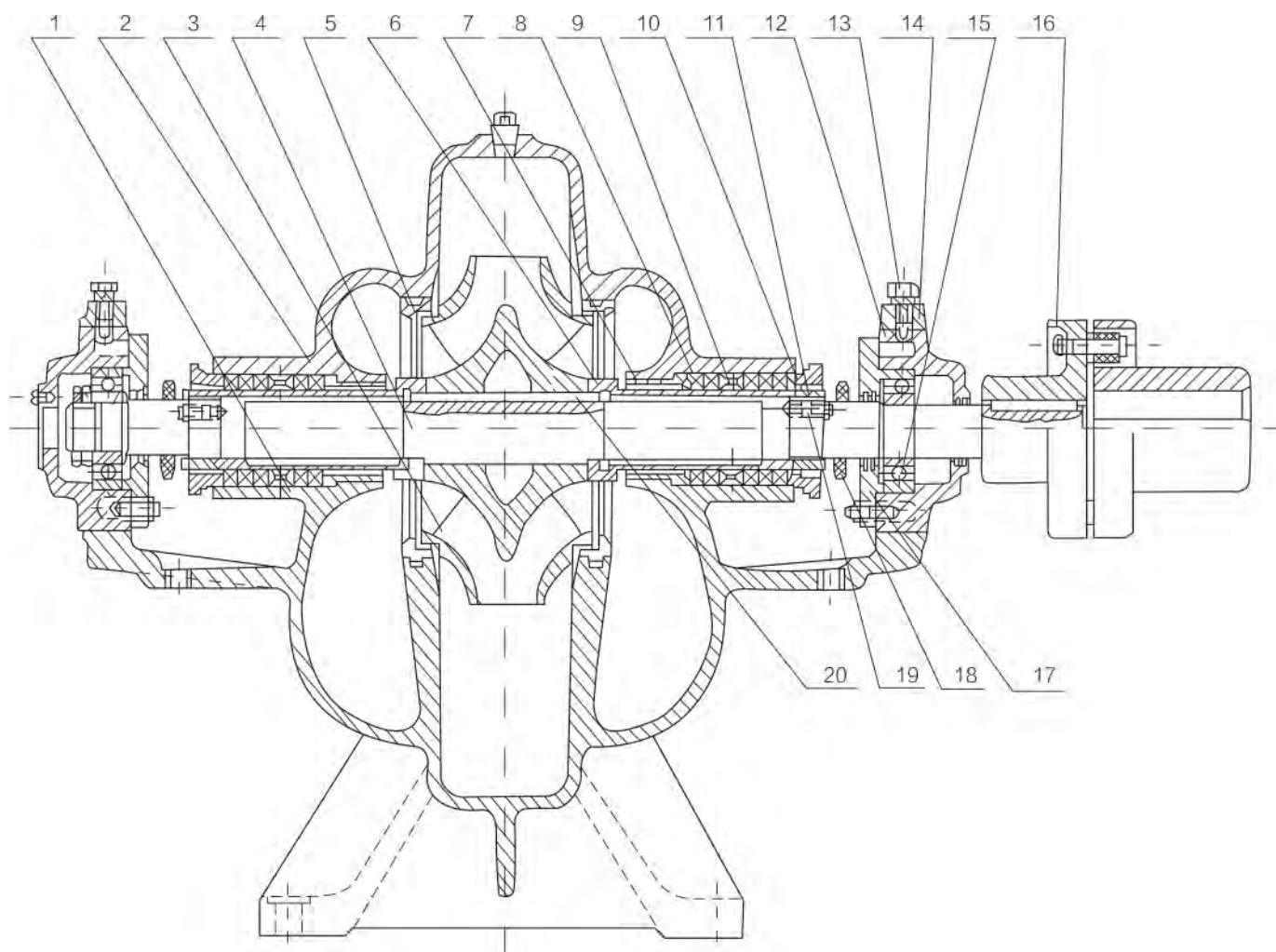
■ 安装

- 1、检查水泵和电动机应无损坏。
 - 2、水泵的安装高度，加上吸入管路的水力损失，及其速度能即为装置汽蚀余量 $NPSH_a$ ， $NPSH_a$ 要大于 $NPSH_r$ 。基础尺寸应符合泵机组的安装尺寸
 - 3、安装顺序：
 - (1) 将水泵放在埋有地脚螺栓的混凝土基础上，用调整其间的楔形垫块的方法校正水平，并适当拧紧地脚螺栓，以防松动；
 - (2) 在基础与泵底脚之间灌注混凝土；
 - (3) 待混凝土干固后，拧紧地脚螺栓，并重新检查水泵的水平度；
 - (4) 校正电动机轴与水泵轴的同心度。使两轴成一直线，在两联轴器外圆上的不同心度允差为 0.1 毫米，端面间隙沿圆周的不均匀允差 0.3 毫米（在联接进出水管路及试运行后再分别校核一遍，仍应符合上述要求）；
 - (5) 在检查电动机转向与水泵的转向相一致后，装上联轴器的联接柱销。
 - 4、进出水管路应另设支架支撑，不得籍泵本体支承。
 - 5、水泵与管路之间的结合面，应保证良好的气密性，尤其是在进水管路，必须保证严格的不漏气，并且在装置上应无窝存空气的可能。
 - 6、如水泵安装在进水水位以上时，为了灌泵启动，一般可装底阀，也可采用真空泵引水的方法。
 - 7、水泵的出水管路中，一般需装闸阀和止回阀（扬程小于 20 米的可不用），止回阀装在闸阀后面。
- 以上所述的安装方法是指不配带公共底座的水泵机组。
- 安装配带公共底座的泵，用调整底座与混凝土基础之间的楔形垫铁来校正机组的水平，然后在其间灌注混凝土。其安装原则与要求和配带公共底座的机组相同。

■ Installation

- (1) Place the pump on the concrete basis with built-in foot bolts, correct the levelness with the method adjusting the wedge cushion block and properly tighten the bolts to prevent them from displacement.
 - (2) Grout concrete between the basis and the pump foot.
 - (3) After the concrete gets solidified, tighten the foot bolts and check the pump's levelness again.
 - (4) Correct the concentricity between the axes of both pump and motor to have them in a straight line. The allowed tolerance of the non-concentricity of the outer circles of two clutches is 0.1mm and the one of the non-uniform end-face intervals along with the circumference is 0.3mm (another correction of which after both water inlet and outlet pipelines are connected and a trial movement, the above requirements should also be met with).
 - (5) After finding out the rotating direction of the motor is identical to that of the pump, mount the link pin of the clutch.
4. Both water inlet and outlet pipelines should be supported by a separate stand and not by the pump body.
5. A good air tightness of the combined face between both pump and pipeline should be kept, especially the inlet pipeline, it must be guaranteed without air leak and without the possibility for air to be nested on the unit.
6. In general, a foot valve can be mounted if the pump is mounted above the water level of the water inlet so as to start the pump with priming, it can also use the way of vacuum pump water leading.
7. In general gate valve and check valve are required to be mounted in the water outlet pipeline of the pump (unnecessary for those of a head less than 20m), with the check valve mounted after the gate valve.
- The above ways of installation mean the pump without a common foundation.
- For the pump with a common foundation, use the wedge iron pad between both foundation and concrete to correct the levelness of the unit, then grout concrete between them. The installation principle and requirements are the same as those for the pump without a common foundation.

■ 结构和控制系统图 Construction and control system flowchat



1	泵 体 Pump casing	2	泵 盖 Pump cover	3	叶 轮 Impeller	4	轴 Shaft	5	双吸密封环 Dual-suction seal ring
6	轴套 Muff	7	填料套 Packing sleeve	8	填 料 Packing	9	填料环 Packing ring	10	填料压盖 Packing gland
11	轴套螺母 Muff nut	12	轴承体 Bearing body	13	固定螺钉 Fixing screw	14	轴承体压盖 Gland of bearing body	15	单列向心球轴承 Single-column centripetal ball bearing
16	联轴器部件 Cluth	17	轴承端盖 End cap of bearing	18	挡水圈 Water retaining ring	19	螺柱 Stud	20	键 Key

■ S型泵性能参数 S type pump performance data

泵型号 Pump Type	流量 Flow		扬程 Head m	转速 Speed r/min	功率 Power(KW)		效率 Eff %	效率 Eff %	重量 Weight kg
	m³/h	L/S			轴功率 Shaft Power	电机 Motor			
150S-100	120 160 192	33.3 44.4 53.3	103 100 92	2950	48.8 59.7 67.7	75	69 73 71	4.5	168
150S-78	126 160 198	35.0 44.4 55.0	84 78 70	2950	41.2 45.9 53.1	55	70 74 71	4.5	158
150S-78A	112 144 180	31.1 39 50.0	65 62 53.5	2950	29.1 31.8 37.5	45	68 72 70	4.5	158
150S-50	130 160 220	36.1 44.4 61.1	52 50 40	2950	25.2 27.6 31.5	37	73 79 76	4.5	147
150S-50A	112 144 180	31.1 38.9 50.0	42 40 34	2950	18.3 19.8 22.8	30	70 75 73	4.5	147
150S-50B	108 133 160	30.0 36.9 44.4	38 36 32	2950	16.9 18.4 19.4	22	66 71 72	4.5	147
200S-95	200 280 324	55.6 77.8 90.0	102 95 85	2950	81.7 94.0 100.0	132	68 77 75	5	240
200S-95A	180 268 310	50.0 74.4 86.1	95 87 78	2950	71.6 84.6 90.2	110	65 75 73	5	240
200S-95B	165 260 298	45.8 68.1 82.8	81 72 60	2950	56.4 64.9 69.5	90	64.5 74 70	5	240
200S-63	216 280 351	60.0 77.8 97.5	70.4 63 52	2950	55.9 59.3 69.0	75	74 81 72	5	187
200S-63A	186 270 332	51.7 75.0 92.2	56.5 46 38.5	2950	41.5 45.8 49.0	55	69 77 71	5	187
200S-42	216 280 342	60.0 77.8 95.0	48 42 35	2950	35.3 37.7 41.0	45	80 85 79.5	5	219
200S-42A	198 270 310	55.0 75.0 86.1	43 36 31	2950	31.3 33.1 34.6	37	74 80 75.5	5	219
250S-65	360 485 612	100.0 134.7 170.0	70 65 54	1480	91.5 108.6 127.6	132	75 79 70.5	3.8	518
250S-65A	300 420 535	83.3 116.7 148.6	53 48 40	1480	61.8 71.3 79.8	90	70 77 73	3.8	518
250S-39	360 485 612	100.0 134.7 170.0	43 39 32.5	1480	55.4 62.0 69.4	75	76 83 78	3.8	400
250S-39A	324 468 576	90.0 116.7 160.0	31.5 30 22	1480	38.6 42.5 48.6	55	72 78 71	3.8	400
250S-24	360 485 576	100.0 134.7 160.0	27 24 19	1480	33.1 36.8 36.3	45	80 86 82	3.8	305
250S-24A	342 414 482	95.0 116.7 133.9	22 20 17	1480	25.9 27.6 27.9	37	79 83 80	3.8	305
250S-14	360 485 576	100.0 134.7 160.0	17 14 11	1480	20.8 21.7 22.1	30	80 85 78	3.8	305
250S-14A	320 432 505	88.9 116.7 140.3	12 11 8.2	1480	13.2 14.1 14.5	18.5	79 81 78	3.8	305

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泵型号 Pump Type	流量 Flow		扬程 Head m	转速 Speed r/min	功率 Power(KW)		效率 Eff %	效率 Eff %	重量 Weight kg
	m³/h	L/S			轴功率 Shaft Power	电机 Motor			
300S-90	590 790 936	163.9 219.4 260.0	95 90 86	1480	224.4 251.4 277.4	320	68 77 79	4.8	840
300S-90A	576 756 918	160.0 210.0 255.0	83 78 72	1480	200.2 216.9 239.9	280	65 74 75	4.8	840
300S-90B	546 720 900	151.7 200.0 250.0	72 67 57	1480	169.9 185.0 194.0	220	63 71 72	4.8	840
300S-58	576 800 972	160.0 219.4 270.0	65 40 50	1480	135.9 148.5 165.4	200	75 84 80	4.8	599
300S-58A	529 720 893	146.9 204.2 248.1	55 49 42	1480	110.0 122.0 129.2	160	72 82 79	4.8	599
300S-58B	504 685 835	140.0 190.3 231.9	47.2 43 37	1480	91.2 100.2 109.2	132	71 80 77	4.8	599
300S-32	612 790 900	170.0 219.4 250.0	36.5 32 27.3	1480	74.2 79.1 83.6	90	82 87 80	4.8	709
300S-32A	537 720 790	149.2 194.4 219.4	29 26 22.5	1480	53.7 59.0 62.0	75	79 84 78	4.8	709
300S-19	612 790 935	170.0 219.4 259.7	22 19 15.5	1480	45.8 48.4 52.6	55	80 84.5 75	4.8	434
300S-19A	485 720 798	134.7 194.4 221.7	18 16 13	1480	32.1 35.7 37.2	45	74 80 76	4.8	434
300S-12	612 790 900	170.0 219.4 250.0	14.5 12 10	1480	30.2 31.1 33.1	37	80 83 74	4.8	413
300S-12A	515 684 785	143.1 194.4 218.1	11.5 10 9	1480	22.4 24.4 25.6	30	72 78 75	4.8	413
350S-125	850 1260 1660	236.1 350.0 461.1	135 125 110	1480	446.3 542.7 685.6	680	70 79 72.5	5.5	1580
350S-125A	787 1181 1550	218.6 328.1 430.6	121 112 100	1480	381.2 461.6 594.3	570	68 78 71	5.5	1580
350S-125B	700 1098 1350	194.4 305.0 375.0	104 96 89	1480	300.3 372.7 448.0	500	66 77 73	5.5	1580
350S-75	972 1260 1440	270.0 350.0 400.0	80 75 69	1480	264.6 302.6 329.9	360	80 85 82	5.5	1200
350S-75A	900 1170 1332	250.0 325.0 370.0	70 65 60	1480	219.9 252.5 275.4	280	78 82 79	5.5	1200
350S-75B	800 1080 1200	222.2 300.0 333.3	60 55 52	1480	174.2 204.7 220.6	220	75 79 77	5.5	1200
350S-44	972 1260 1476	270.0 350.0 410.0	50 44 37	1480	163.3 177.6 188.2	220	81 85 79	5.5	1105
350S-44A	876 1116 1360	243.3 310.0 377.8	41 36 30	1480	123.8 131.8 140.6	160	79 83 79	5.5	1105
350S-26	972 1260 1440	270.0 350.0 400.0	29 26 22	1480	93.6 101.3 102.7	132	82 88 84	5.5	672

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泵型号 Pump Type	流量 Flow		扬程 Head m	转速 Speed r/min	功率 Power(KW)		效率 Eff %	效率 Eff %	重量 Weight kg
	m³/h	L/S			轴功率 Shaft Power	电机 Motor			
350S-26A	840 1116 1260	233.3 313.9 350.0	24 21 19	1480	70.4 77.8 81.5	90	78 83 80	5.5	672
350S-16	960 1260 1440	266.7 350.0 400.0	19.5 16 13	1480	61.4 63.8 67.9	75	83 86 75	5.5	632
350S-16A	800 1044 1340	222.2 313.9 372.2	15 13 9.5	1480	42.4 45.6 48.1	55	77 81 72	5.5	632
400S-90	1140 1620 1980	316.7 450.0 550.0	102 90 78	1480	403.2 461.5 512.7	560	78.5 86 82	7.9	1910
400S-90A	1020 1460 1850	283.3 405.6 513.9	89 73 66	1480	320.9 369.1 415.5	450	77 84 80	7.9	1910
400S-90B	960 1300 1720	266.7 369.4 477.8	78 58 56	1480	268.2 300.2 336.2	350	76 82 78	7.9	1910
400S-40	800 1080 1320	222.2 300.0 366.7	45 40 32	970	124.1 140.0 149.3	185	79 84 77	4.9	1800
400S-40A	720 1007 1150	200.0 266.7 319.4	39.5 33 29.5	970	100.5 111.5 121.5	160	77 82 76	4.9	1800
500S-98	1620 2020 2340	450.0 561.1 650.0	104.5 98 92	970	598.5 673.6 741.8	800	77 80 79	6	2360
500S-98A	1500 1872 2170	416.7 520.0 602.8	88 83 77	970	479.1 535.4 583.1	630	75 79 78	6	2360
500S-98B	1400 1746 2020	388.9 485.0 561.1	79 74 71	970	401.4 448.1 500.5	560	75 78.5 78	6	2360
500S-59	1620 2020 2340	450.0 561.1 650.0	64 59 53	970	357.3 390.9 422.0	450	79 83 80	6	-
500S-59A	1500 1872 2170	416.7 520.0 602.8	53 49 45	970	288.6 316.1 345.2	400	75 79 77	6	-
500S-59B	1400 1746 2020	388.9 485.0 561.1	43 40 36.5	970	227.6 250.2 267.6	315	72 76 75	6	-
500S-35	1620 2020 2340	450.0 561.1 650.0	40 35 30.5	970	207.5 218.7 228.6	280	85 88 85	6	1600
500S-35A	1400 1746 2020	388.9 485.0 561.1	30 27 24	970	139.4 151.0 159.0	220	82 85 83	6	1600
500S-22	1620 2020 2340	450.0 561.1 650.0	24.5 22 19.4	970	136.8 144.0 145.4	185	79 84 85	6	1722
500S-22A	1400 1746 2020	388.9 485.0 561.1	19 17 15	970	97.9 101.0 101.8	132	74 80 81	6	1722
500S-13	1620 2020 2340	450.0 561.1 650.0	15 13 10	970	82.7 86.1 81.7	110	80 83 78	6	-
600S-100	2160 3170 3600	600.0 880.6 1000.0	110 100 92	970	829.2 1015.2 1073.3	1250	78 85 84	6	7200
600S-100A	1980 3000 3240	550.0 833.3 900.0	100 90 85	970	700.0 875.0 914.3	1120	77 84 82	6	7200

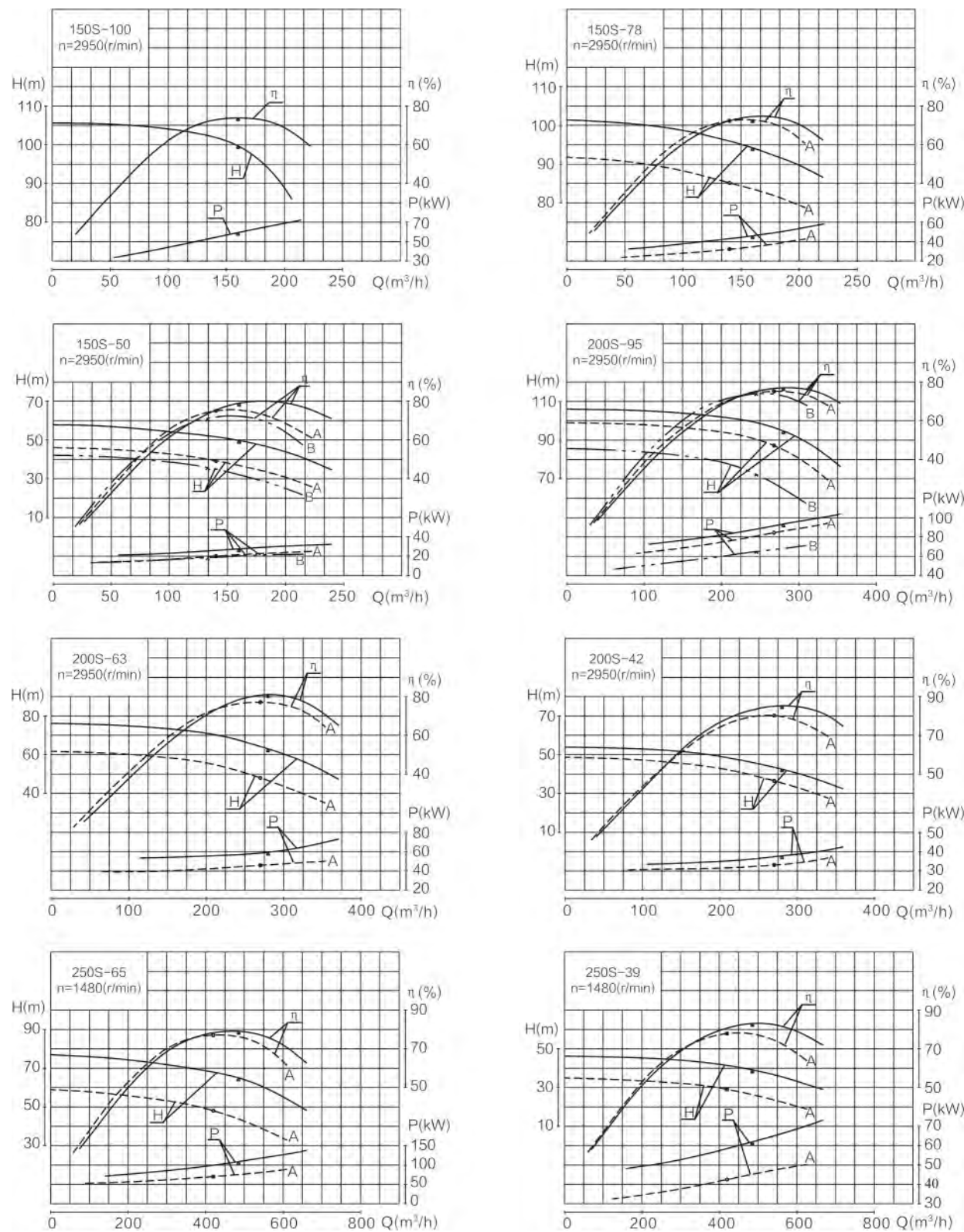
■ S型泵性能参数 S type pump performance data

泵型号 Pump Type	流量 Flow		扬程 Head m	转速 Speed r/min	功率 Power(KW)		效率 Eff %	效率 Eff %	重量 Weight kg
	m³/h	L/S			轴功率 Shaft Power	电机 Motor			
600S-100B	1800	500.0	90	970	588.0	900	75	6	7200
	2830	786.1	80		751.6		82		
	3060	850.0	75		780.9		80		
600S-75	2160	600.0	84	970	633.2	900	87	6	2600
	3170	880.6	75		761.4		88		
	3600	1000.0	67		802.9		80		
600S-75A	1980	550.0	68	970	488.7	800	75	7.5	2600
	2880	800.0	62		607.6		80		
	3240	900.0	58		655.8		78		
600S-75B	1800	486.1	60	970	408.3	560	80	6	2600
	2710	736.1	55		508.7		85		
	3060	875.0	51		579.4		80		
600S-47	2160	600.0	56.5	970	401.9	560	79	6.5	2800
	3170	880.6	47		460.9		88		
	3600	1000.0	40.5		507.7		83		
600S-47A	1980	550.0	46	970	311.0	450	78	6.5	2800
	2920	811.1	40		369.7		86		
	3240	900.0	37		398.0		82		
600S-32	2160	600.0	36	970	271.4	355	78	7	2300
	3170	880.6	32		313.8		88		
	3600	1000.0	27		334.4		85		
600S-32A	1800	555.6	30	970	214.9	280	81	7	2300
	2850	800.0	26		246.1		87		
	3240	900.0	23		262.5		84		
600S-32B	1800	500.0	24.5	970	164.5	250	73	7.5	2300
	2628	730.0	22		187.4		84		
	3000	833.3	20		199.2		82		
600S-22	2520	700.0	25	970	204.2	250	84	7	2300
	3170	880.6	22		215.7		88		
	3600	1000.0	18		227.1		82		
600S-22A	2160	600.0	21	970	152.4	185	81	7	2300
	2860	800.0	18		162.2		87		
	3240	900.0	16		170.0		84		
800S-22	4320	1200.0	25	730	358.5	450	82	7	3800
	5500	1527.8	22		370.1		89		
	6480	1800.0	19		389.7		86		
800S-22A	3000	833.3	16	585	163.3	250	80	5	3800
	4400	1222.2	14		190.6		88		
	5040	1400.0	12.5		201.8		85		
800S-22A	3960	1100.0	19	730	246.8	315	83	7	3800
	4830	1341.7	17		254.0		88		
	5500	1527.8	15		261.1		86		
800S-22A	2800	777.8	13	585	119.1	185	80	5	3800
	3870	1075.0	11		133.2		87		
	4500	1250.0	9		138.5		84		
800S-32	4320	1200.0	35	730	502.0	630	82	7	4900
	5500	1527.8	32		538.3		89		
	6480	1800.0	29		588.0		87		
800S-32	3000	833.3	23	585	234.8	315	80	4.5	4900
	4400	1222.2	20		272.2		88		
	5200	1444.4	18		283.1		85		
800S-32A	3500	972.2	30	730	351.3	450	81	7	4900
	4950	1375.0	26		398.1		88		
	6000	1666.7	23		436.8		86		
800S-32A	2700	750.0	19	585	174.6	250	80	4.5	4900
	3960	1100.0	17		204.4		87		
	4680	1300.0	14		212.3		84		
800S-47	4320	1200.0	51	730	722.6	1000	83	6.5	5000
	5500	1527.8	47		781.9		90		
	6480	1800.0	42		841.9		88		
800S-47	3000	833.3	35	585	357.3	450	80	4.2	5000
	4400	1222.2	30		403.7		89		
	5200	1444.4	26		428.0		86		

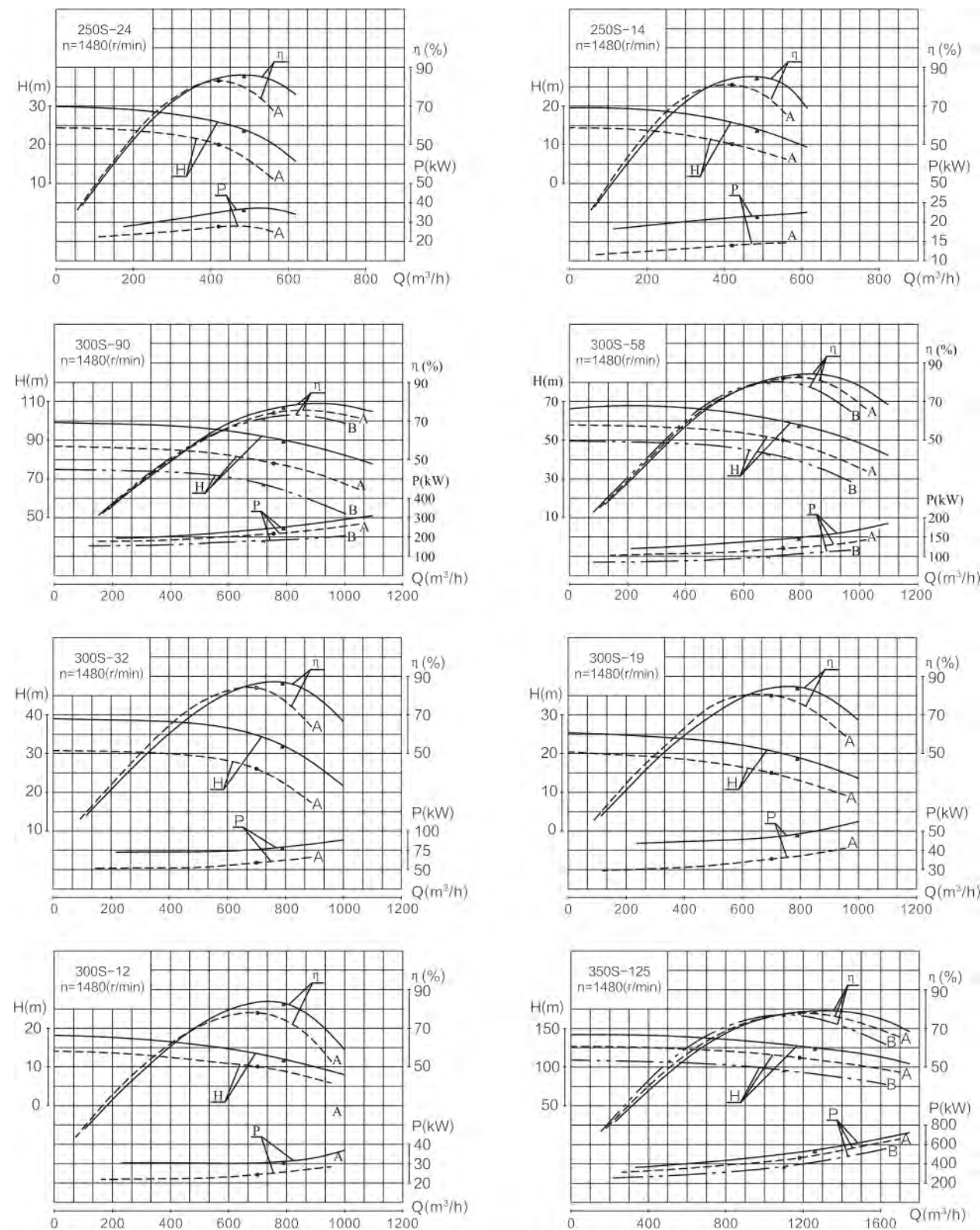
■ S型泵性能参数 S type pump performance data

泵型号 Pump Type	流量 Flow		扬程 Head m	转速 Speed r/min	功率 Power(KW)		效率 Eff %	效率 Eff %	重量 Weight kg
	m³/h	L/S			轴功率 Shaft Power	电机 Motor			
800S-47A	3500 5070 6000	972.2 1408.3 1666.7	45 40 36	730	529.3 620.3 683.7	710	81 89 86	6.5	5000
	2800 4060 4800	777.8 1127.8 1333.3	30 25 22	585	285.8 314.0 334.3	355	80 88 86	4.2	5000
800S-76	4000 5500 6500	1111.1 1527.8 1805.6	80 76 71	730	1102.7 1293.1 1444.0	1600	79 88 87	6	7550
	3000 4400 5500	833.3 1222.2 1527.8	54 49 43	585	551.3 674.6 757.4	800	80 87 85	4.2	7550
800S-76A	3500 5080 6000	972.2 1411.1 1666.7	70 65 62	730	832.2 1033.2 1186.1	1250	79 87 84	6	7550
	2800 4070 5000	777.8 1130.6 1388.9	48 42 37	585	448.6 541.1 606.8	630	79 86 83	4.2	7550
800S-76B	3000 4680 5500	833.3 1300.0 1527.8	60 55 51	730	642.4 824.4 920.0	1000	78 85 83	6	7550
	2500 3750 4500	694.4 1041.7 1250.0	40 35 30	585	349.2 425.3 468.8	500	76 84 80	4	7550
800S-105	3850 5500 6600	1069.4 1527.8 1833.3	110 105 100	730	1441.1 1807.0 2089.1	2500	80 87 86	6.5	8000
900S-23	6200 8280 9432	1722.2 2300.0 2620.0	28 23 19.5	730	590.7 602.8 610.6	710	80 86 82	9.3	6000
1000S-36	7920 9900 11380	2200.0 2750.0 3161.1	40 36 33	495	1039.0 1102.5 1202.7	1250	83 88 85	7.8	13000
1200S-24	8400 12000 14400	2333.3 3333.3 4000.0	28 24 18.5	590	748.8 901.1 906.5	1250	85.5 87 80	7.7	9000
1200S-32	8640 10800 12960	2400.0 3000.0 3600.0	35 32 26	590	1006.0 1081.4 1072.8	1400	83 87 85.5	7.7	-
1200S-32A	7776 9720 11664	2160.0 2700.0 3240.0	32.5 29 23	590	821.1 887.1 877.8	1250	82.5 86.5 85	7.7	-
1200S-39	7200 9000 10800	2000.0 2500.0 3000.0	42.5 39 33	500	1015.9 1085.8 1155.0	1600	81.5 87.5 84	5.5	-
1200S-39A	6480 8100 9720	1800.0 2250.0 2700.0	38.5 35 29	495	848.9 892.2 940.4	1250	80 86.5 83	5.5	-
1200S-39B	5832 7290 8748	1620.0 2025.0 2430.0	34 31 25.5	495	674.7 715.3 755.1	1000	80 85.7 82	5.5	-
1200S-56	8640 10800 12960	2400.0 3000.0 3600.0	60 56 47.5	590	1721.0 1870.9 2033.8	2240	82 88 85.5	7.5	-
1200S-56A	7776 9720 11664	2160.0 2700.0 3240.0	54 50 42	590	1411.2 1520.7 1606.7	2000	81 87.5 83.5	7.5	-
1200S-56B	7000 8750 10500	1944.4 2430.6 2916.7	49 44 36.6	590	1143.3 1218.7 1289.7	1600	80 86 81.5	7.5	-
1200S-72	7800 10224 11500	2166.7 2840.0 3194.4	78 72 66	746	1995.4 2251.6 2374.9	2500	83 89 87	11.7	-

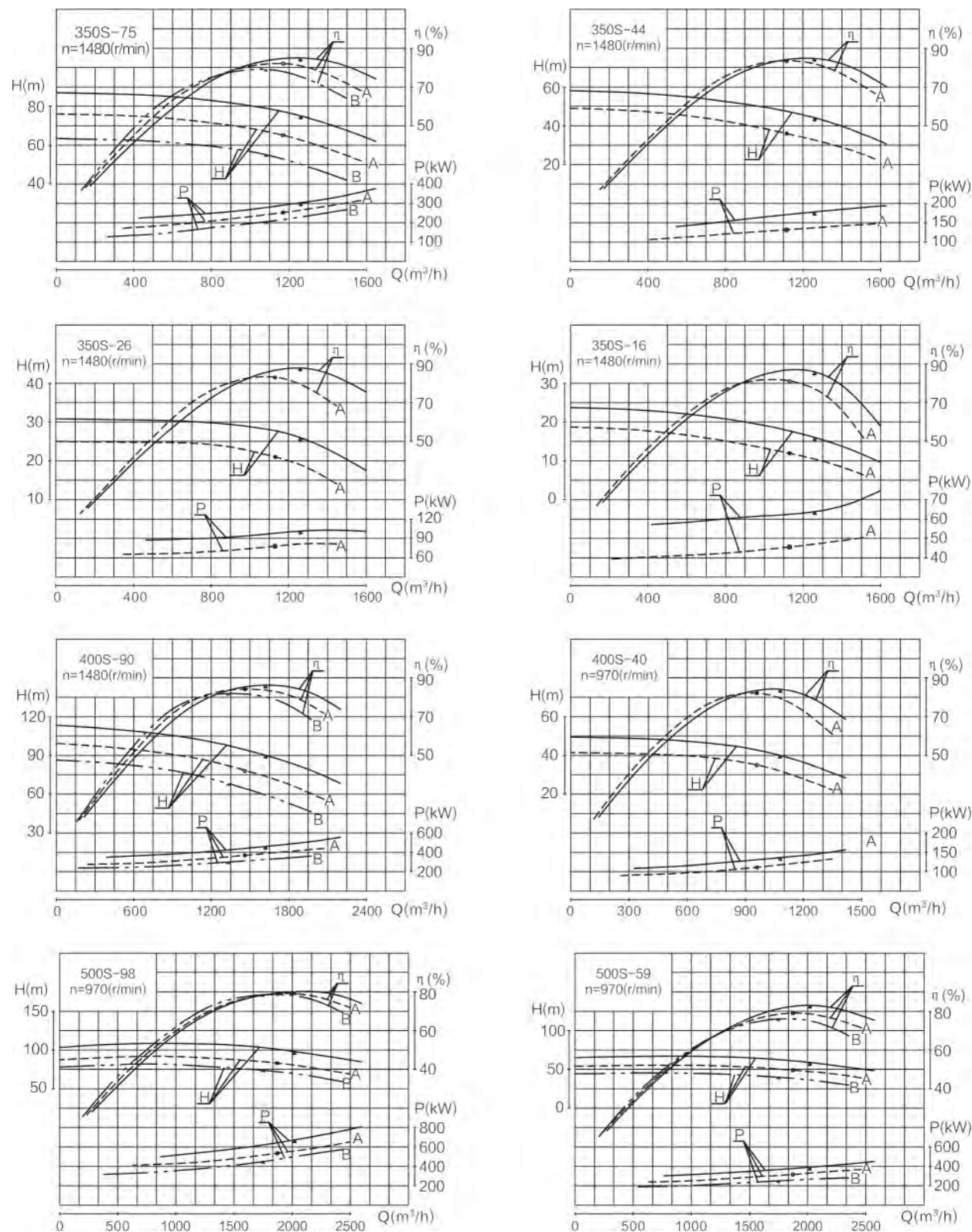
■ S型泵性能曲线图 S type pump performance curve



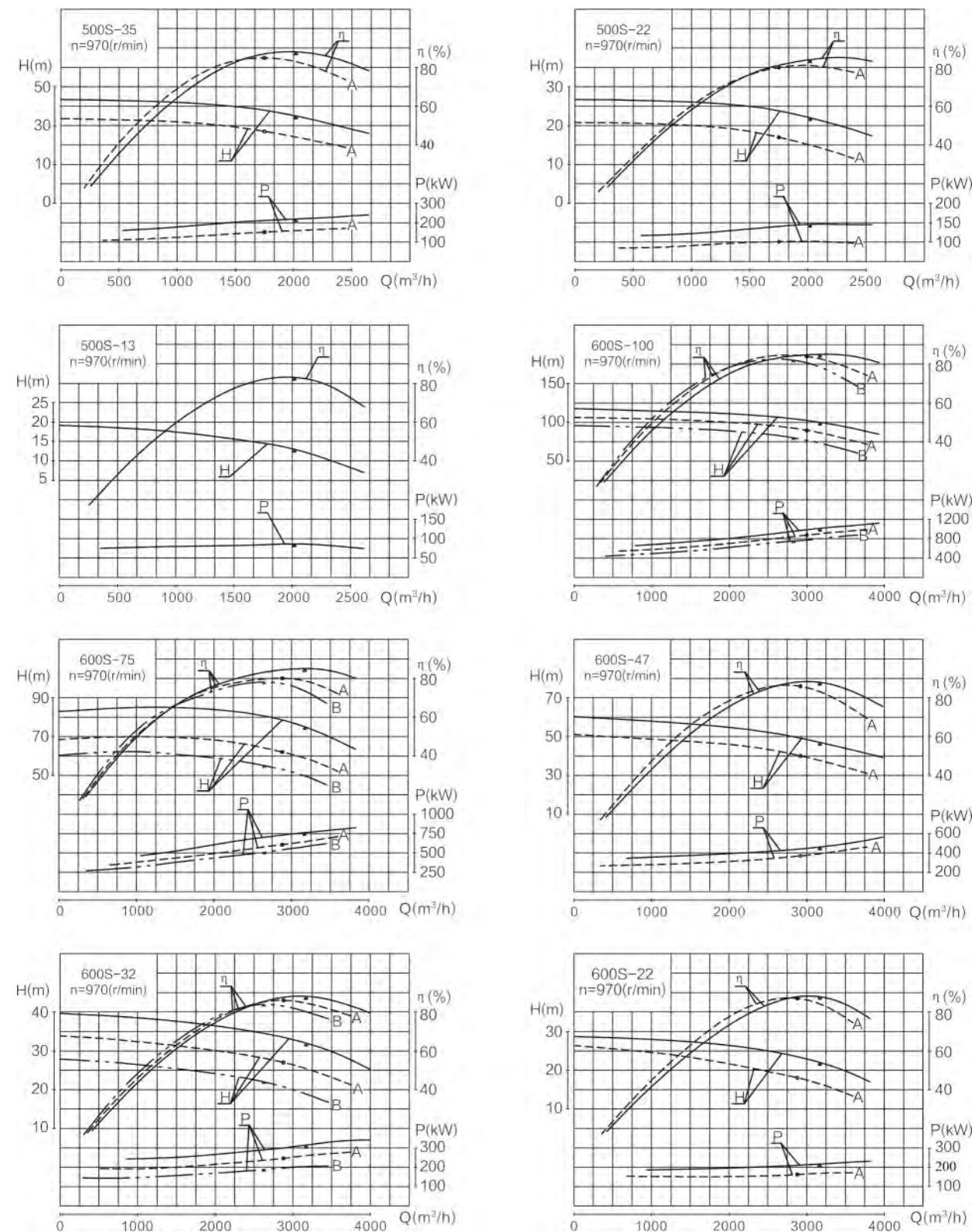
■ S型泵性能曲线图 S type pump performance curve



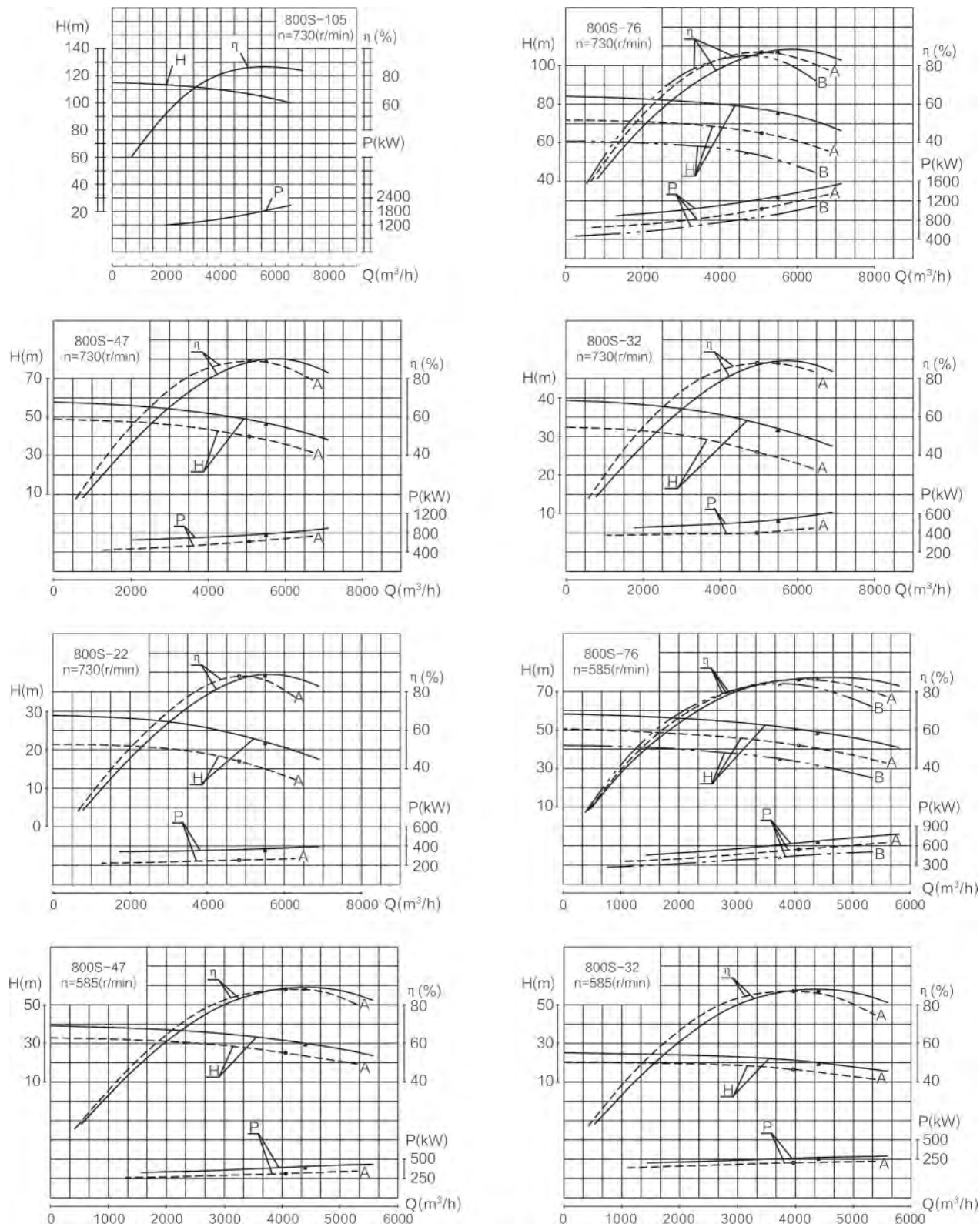
■ S型泵性能曲线图 S type pump performance curve



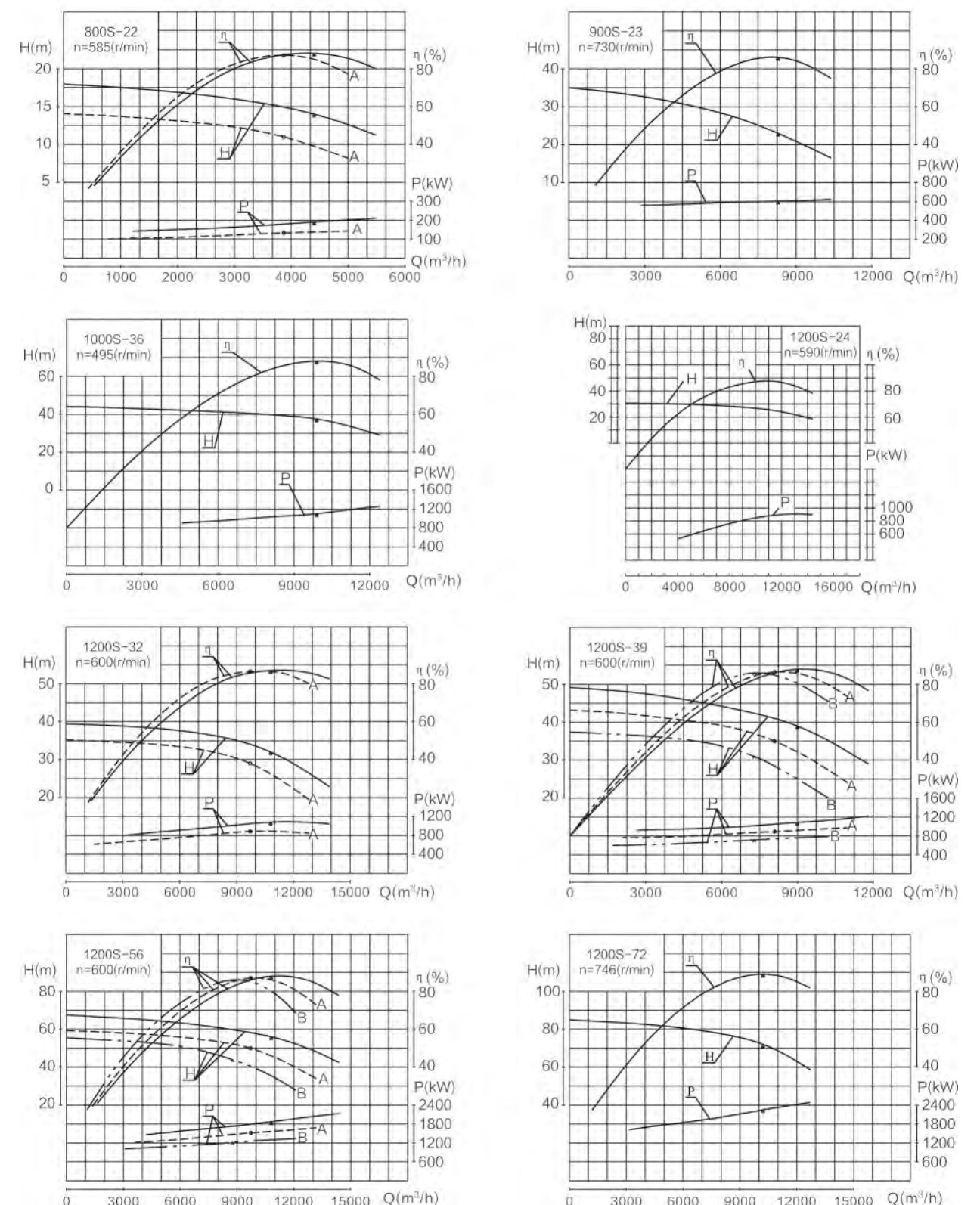
■ S型泵性能曲线图 S type pump performance curve



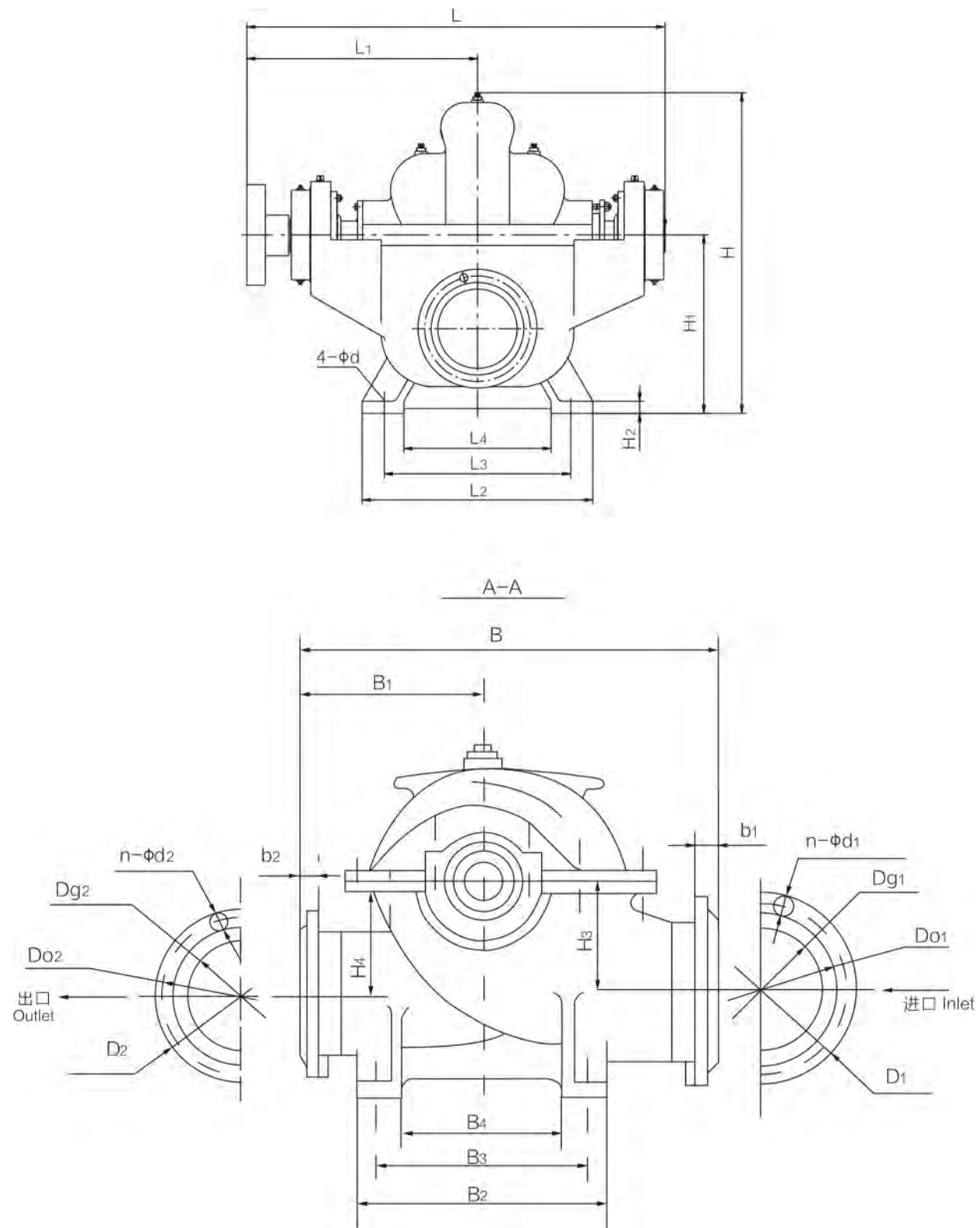
■ S型泵性能曲线图 S type pump performance curve



■ S型泵性能曲线图 S type pump performance curve

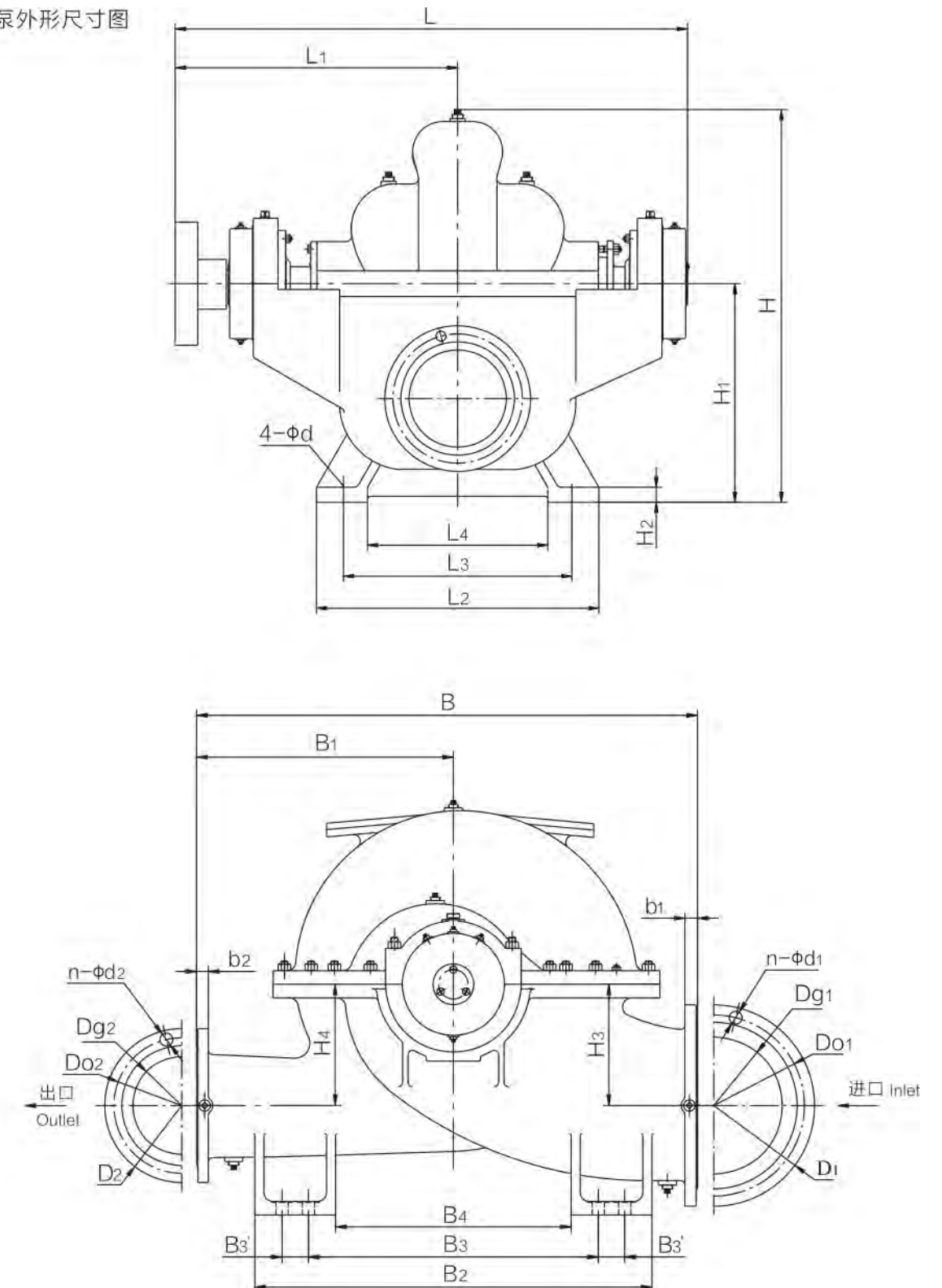


■ S型泵外形尺寸图 S type pump figure dimension drawing



■ S型泵外形尺寸图 S type pump figure dimension drawing

1200S泵外形尺寸图



S型泵外形尺寸表 S type pump figure dimension table

型号 Type	泵外形尺寸 Pump figure dimensions												
	L	L ₁	L ₂	L ₃	L ₄	B	B ₁	B ₂	B ₃	B ₃ '	B ₄	B ₄ '	H
150S-100	740.5	410	330	280	190	550	250	330	280	—	190	—	490
150S-78	708	389	250	200	135	530	250	270	110	—	110	—	487
150S-78A													
150S-50	708	889	250	200	135	450	200	270	110	—	110	—	456
150S-50A													
150S-50B		389											
200S-95	842	462	350	300	245	750	350	350	150	—	150	—	804
200S-95A													
200S-95B													
200S-63	822.5	450	250	300	245	620	270	350	150	—	150	—	568
200S-63A			350										
200S-42	765	416	350	300	230	550	250	350	150	—	150	—	549
200S-42A													
250S-65	1121	618	410	320	210	900	450	640	240	—	240	—	837
250S-65A													
250S-39	988.5	553	420	360	300	890	440	630	240	—	240	—	754
250S-39A													
250S-24	964.5	531	440	380	300	850	400	630	240	—	240	—	728
250S-24A													
250S-14	908	490	400	350	280	750	350	400	175	—	175	—	671
250S-14A							320						
300S-90	1185.5	660	500	380	240	1080	520	720	280	—	280	—	955
300S-90A													
300S-90B													
300S-58	1143.5	639	410	320	210	1020	500	670	260	—	260	—	890
300S-58A													
300S-58B													
300S-32	1209.5	662	640	520	330	1040	500	800	300	—	300	—	854.5
300S-32A													

S型泵外形尺寸表 S type pump figure dimension table

单位 Unit: mm

泵外形尺寸 Pump figure dimensions					进水法兰尺寸 Inlet flange dimensions					出水法兰尺寸 Outlet flange dimensions				
H ₁	H ₂	H ₃	H ₄	4-Ød	Dg ₁	Do ₁	D ₁	b ₁	n-Ød ₁	Dg ₂	Do ₂	D ₂	b ₂	n-Ød ₂
285	25	140	170	4-φ18	150	240	285	26	8-φ23	100	180	220	24	8-φ19
280	25	130	165	4-φ18	150	240	280	24	8-φ23	100	180	215	22	8-φ18
									8-φ18					
280	25	130	140	4-φ18	150	225	260	20	8-φ18	100	170	205	18	4-φ18
370	30	185	200	4-φ23	200	295	335	26	8-φ23	125	210	245	24	8-φ18
350	30	175	172.5	4-φ23	200	295	335	26	8-φ23	125	210	245	24	8-φ18
350	30	160	165	4-φ23	200	280	315	22	8-φ18	125	200	235	20	8-φ18
480	30	240	300	4-φ25	250	250	390	28	12-φ23	150	240	280	24	8-φ18
440	35	200	260	4-φ25	250	335	370	24	12-φ23	200	280	315	22	8-φ18
									12-φ18					
440	35	230	230	4-φ25	250	335	370	24	12-φ18	200	280	315	22	8-φ18
										250	335	370		
400	35	200	240	4-φ25	250	335	370	24	12-φ18	200	280	315	22	8-φ18
550	40	260	340	4-φ25	300	400	440	28	12-φ23	200	295	335	26	8-φ23
														8-φ18
520	40	265	304	4-φ25	300	400	440	28	12-φ23	200	295	335	26	12-φ23
520	40	275	305	4-φ25	300	395	435	24	12-φ23	250	335	370	24	12-φ18

■ S型泵外形尺寸表 S type pump figure dimension table

型号 Type	泵外形尺寸 Pump figure dimensions												
	L	L ₁	L ₂	L ₃	L ₄	B	B ₁	B ₂	B ₃	B ₃ '	B ₄	B ₄ '	H
300S-19	1028	563	640	520	400	1000	500	800	300	—	300	—	830
300S-19A													
300S-12	1028	563	640	520	400	1000	500	800	300	—	300	—	830
300S-12A													
350S-125	1625	937	690	560	382	1240	540	800	300	—	300	—	1119
350S-125A													
350S-125B													
350S-75	1421	822	510	440	320	1300	650	900	360	—	360	—	980
350S-75A													
350S-75B													
350S-44	1291	713	720	600	400	1180	560	810	300	—	300	—	1008
350S-44A													
350S-26	1171	642	580	500	360	1040	460	680	600	—	450	—	963
350S-26A													
350S-16	1271.5	693	570	480	370	1100	500	740	280	—	280	—	945
350S-16A													
400S-90	1747	907	820	700	480	1645	900	900	700	—	500	—	1130
400S-90A													
400S-90B													
400S-40	1747	907	820	700	480	1645	900	900	700	—	500	—	1130
400S-40A													
500S-98	1909.5	1025	910	780	400	1550	750	1100	400	—	400	—	1515
500S-98A													
500S-98B													
500S-59	1796	1022	910	780	400	1550	750	1100	400	—	400	—	1415
500S-59A			710										
500S-59B													
500S-35	1569	897	740	600	400	1450	650	920	420	—	300	—	1280
500S-35A													

■ S型泵外形尺寸表 S type pump figure dimension table

泵外形尺寸 Pump figure dimensions					进水法兰尺寸 Inlet flange dimensions					出水法兰尺寸 Outlet flange dimensions				
H ₁	H ₂	H ₃	H ₄	4-∅d	Dg ₁	Do ₁	D ₁	b ₁	n-∅d ₁	Dg ₂	Do ₂	D ₂	b ₂	n-∅d ₂
520	40	250	260	4-∅25	300	395	435	24	12-∅23	250	335	370	24	12-∅18
520	40	250	260	4-∅25	300	395	435	24	12-∅23	250	335	370	24	12-∅18
635	50	320	433	4-∅34	350	470	520	38	16-∅25	200	295	335	20	12-∅23
													30	
560	50	260	360	4-∅34	350	460	500	30	16-∅23	250	350	390	28	12-∅23
620	50	320	383	4-∅34	350	445	485	26	16-∅23	300	400	440	28	12-∅23
620	50	290	300	4-∅34	350	460	505	30	16-∅23	300	400	445	28	12-∅23
560	50	300	310	4-∅34	350	445	485	26	12-∅23	300	395	435	24	12-∅23
670	40	372	482	4-∅35	400	515	565	32	16-∅28	300	400	445	28	12-∅23
670	40	372	482	4-∅35	400	515	565	32	16-∅28	300	400	445	28	12-∅23
900	110	425	545	4-∅41	500	620	670	34	20-∅25	300	400	440	28	12-∅23
900	110	425	500	4-∅41	500	620	670	34	20-∅25	300	400	440	28	12-∅23
800	50	450	450	4-∅41	500	620	670	34	20-∅25	350	460	500	30	16-∅23

■ S型泵外形尺寸表 S type pump figure dimension table

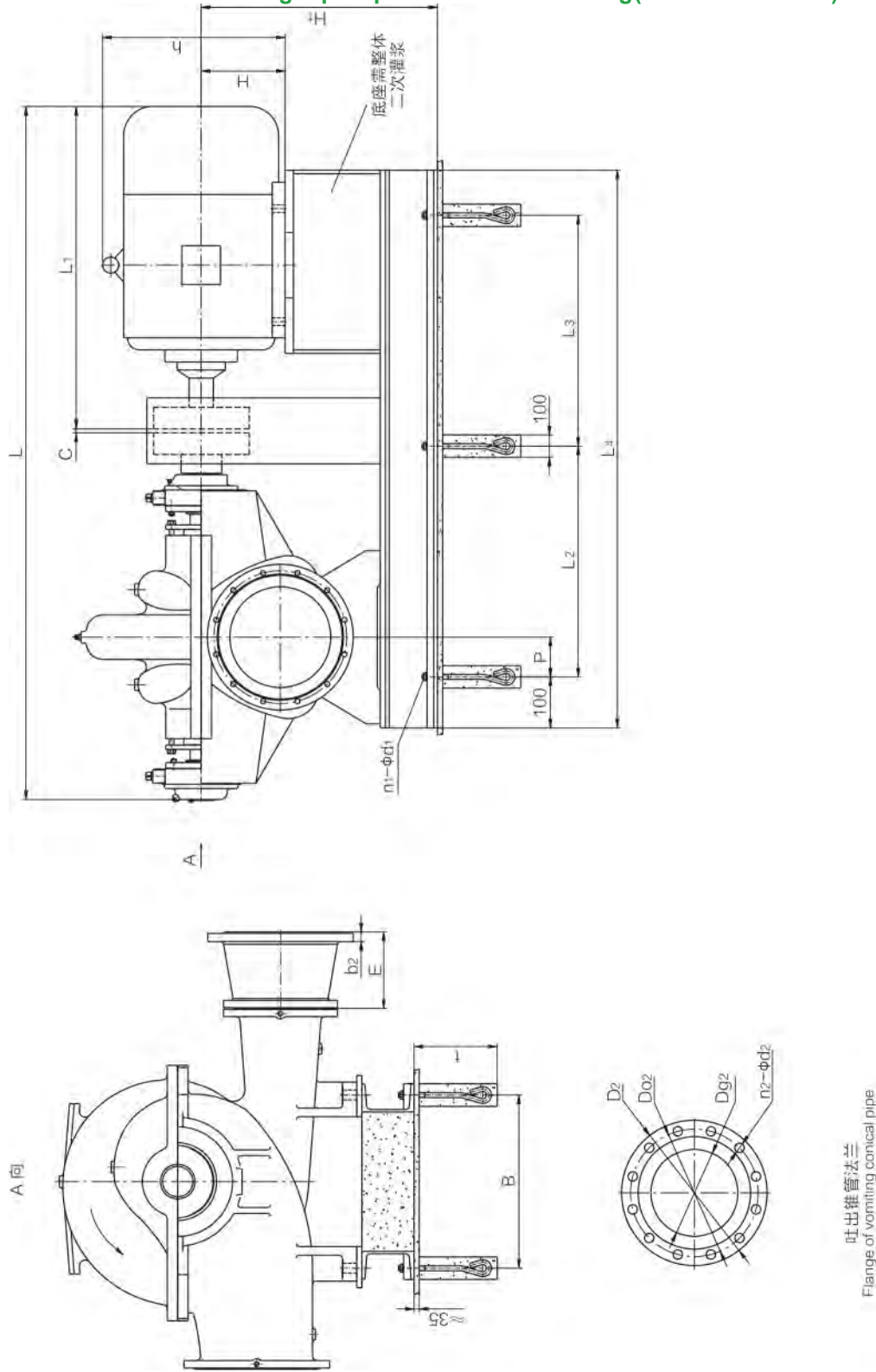
型号 Type	泵外形尺寸 Pump figure dimensions												
	L	L ₁	L ₂	L ₃	L ₄	B	B ₁	B ₂	B ₃	B ₃ '	B ₄	B ₄ '	H
500S-22	1568	890	740	600	400	1380	650	920	400	—	320	—	200
500S-22A													
500S-13	1568	890	740	600	400	1380	650	920	400	—	320	—	200
600S-100	1935	1097	1200	1000	800	1900	900	1300	1000	—	700	—	1610
600S-100A													
600S-100B													
600S-75	2029	1085	1100	900	600	1800	800	1300	500	—	500	—	1706
600S-75A													
600S-47	2029	1085	1100	900	600	1800	800	1300	500	—	500	—	1706
600S-32	1791	955	940	760	580	1580	750	1240	500	—	500	—	1586
600S-32A													
600S-32B													
600S-22	1791	955	940	760	580	1580	750	1240	500	—	500	—	1586
600S-22A													
800S-105	2435	1367.5	1300	1000	700	2400	1100	1700	1350	—	1000	—	2190
800S-76	2271	1270	1300	1000	700	2350	1150	1700	1350	—	1000	—	2105
800S-47	2315	1300	1200	1000	800	2025	875	1200	900	—	600	—	2074
800S-32	1874	1025	1200	1000	800	2150	1000	1200	900	—	600	—	2044
800S-22	1874	1025	1200	1000	800	2150	1000	1200	900	—	600	—	2014
900S-23	2730	1350	1200	1000	700	2400	840	1200	900	—	600	—	2400
1000S-36	3550	2000	1550	1400	1000	2900	1360	1900	1200	—	900	—	2750
1200S-24	2480	1370	1450	1200	950	3000	1400	2000	1400	200	1200	—	2700
1200S-32	3285	1695	1600	1250	900	2800	1250	550	725	1105	575	950	2650
1200S-32A													
1200S-39	3295	1695	1680	1250	900	2800	1250	550	725	1105	575	950	2700
1200S-39A													
1200S-39B													
1200S-56													
1200S-56A													
1200S-56B													
1200S-72													

■ S型泵外形尺寸表 S type pump figure dimension table

单位 Unit: mm

泵外形尺寸 Pump figure dimensions					进水法兰尺寸 Inlet flange dimensions					出水法兰尺寸 Outlet flange dimensions				
H ₁	H ₂	H ₃	H ₄	4-∅d	Dg ₁	Do ₁	D ₁	b ₁	n-∅d ₁	Dg ₂	Do ₂	D ₂	b ₂	n-∅d ₂
1305	50	430	455	4-∅41	500	620	670	34	20-∅25	400	515	565	32	16-∅25
1305	50	430	455	4-∅41	500	620	670	34	20-∅25	400	515	565	32	16-∅25
950	55	532	588	4-∅42	600	725	780	36	20-∅31	400	515	565	32	16-∅28
950	55	532	663	4-∅41	600	725	780	36	20-∅30	400	515	565	32	16-∅25
950	55	532	663	4-∅41	600	725	780	36	20-∅30	400	515	565	32	16-∅25
900	55	500	530	4-∅41	600	725	780	36	20-∅30	500	620	670	34	20-∅25
900	55	500	530	4-∅41	600	725	780	36	20-∅30	500	620	670	34	20-∅25
1250	55	700	800	4-∅58	800	901	1015	44	24-∅33	600	720	840	48	20-∅37
1250	55	700	745	4-∅56	800	950	1015	44	24-∅33	600	725	780	36	20-∅30
1200	55	660	660	4-∅42	800	950	1015	44	24-∅33	600	725	780	36	20-∅30
1200	55	660	660	4-∅42	800	950	1015	44	24-∅33	600	725	780	36	20-∅30
1200	55	660	660	4-∅42	800	950	1015	44	24-∅33	600	725	780	36	20-∅30
1400	60	840	760	4-∅42	900	1050	1115	46	28-∅34	700	840	895	40	24-∅31
1600	70	860	760	4-∅42	1000	1160	1230	50	28-∅37	800	950	1015	44	24-∅34
1700	60	850	975	8-∅42	1200	1318	1455	56	32-∅40	1000	1112	1230	50	28-∅37
1700	120	870	1020	4-∅56	1200	1380	1455	56	32-∅40	—	—	—	—	—
1700	120	870	1020	4-∅56	1200	1380	1455	56	32-∅40	—	—	—	—	—

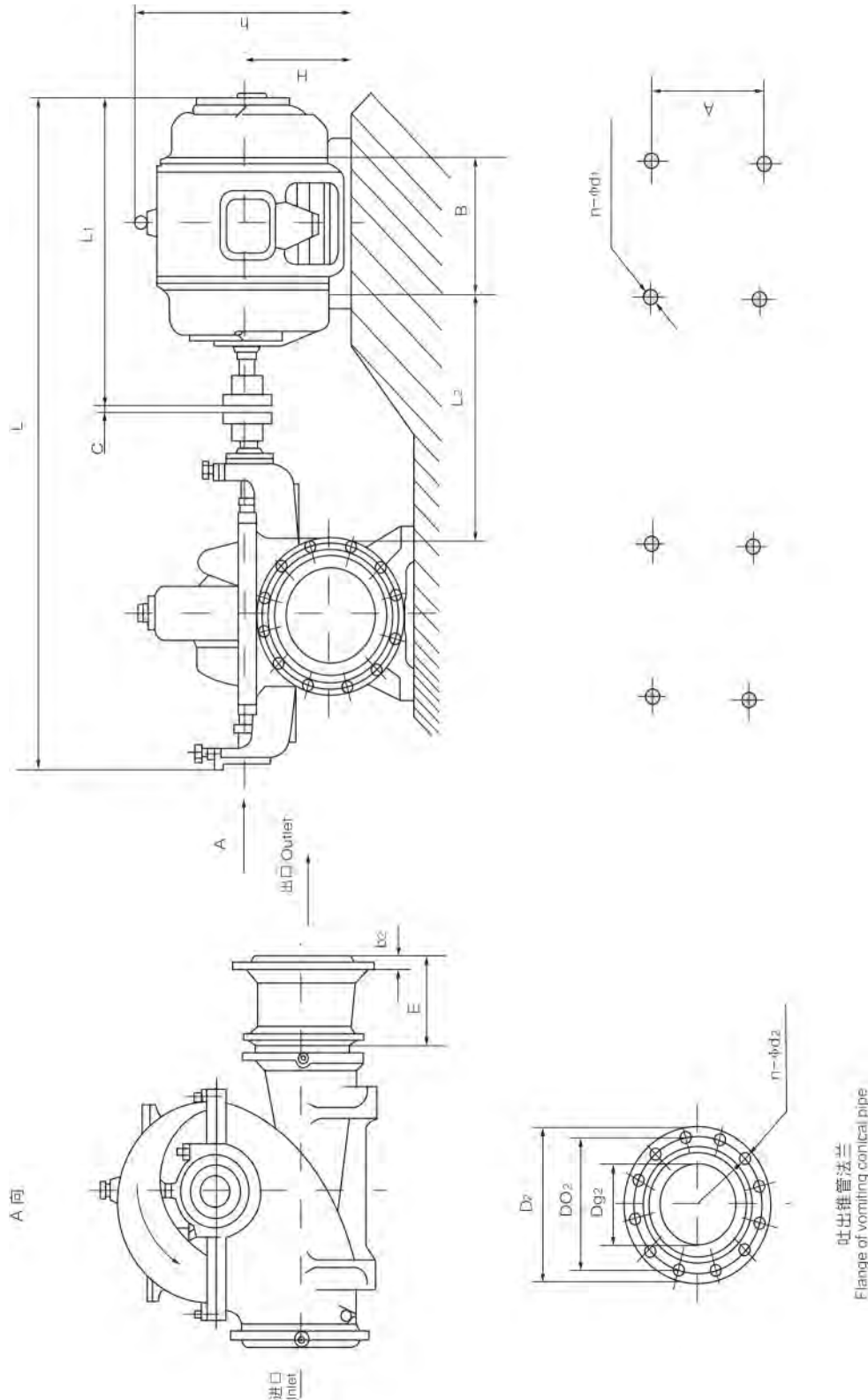
■ S型双吸离心泵安装尺寸图(带底座)
 S type double-suction centrifugal pump Installation drawing(with foundation)



■ S型泵配Y型电机的安装尺寸表(带底座)
 S type pump with Y type motor installation dimension table(with foundation)

型号 Type	C	电动机Motor			电机尺寸 Dimension of motor			底座尺寸 Dimension of foundation						E	H ₁	L	t	吐出接管法兰尺寸 Flange of vomiting conical pipe				
		型号 Type	功率 Power KW	电压 Voltage V	L ₁	h	H	L ₂	L ₃	L ₄	P	B	n ₁ -ød ₁					D ₂	Do ₂	Dg ₂	b ₂	n ₂ -ød ₂
150S-100	4	Y280S-2	75	380	1000	640	280	550	550	1375	75	457	6-φ20	300	425	1723	350	150	280	240	24	8-φ23
150S-78	4	Y250M-2	55	380	930	575	250	520	520	1294		406				1640						
150S-78A	4	Y225M-2	45	380	815	530	225	480	480	1195	75	356	6-φ20	300	425		350	150	280	240	24	8-φ23
150S-50	4	Y200L2-2	37	380	775	475	200	470	470	1170						1484						
150S-50A	4	Y200L1-2	30	380	775	475	200	470	470	1170	100	380	6-φ20	300	425	1484	350	150	280	240	24	8-φ23
150S-50B	4	Y180M-2	22	380	670	430	180	450	450	1095						1379						
200S-63	4	Y280S-2	75	380	1000	640	280	570	570	1372	75	457	6-φ20	350	495	1750	350	200	335	295	26	8-φ23
200S-63A	4	Y250M-2	55	380	930	575	250	550	550	1308		406			1680							
200S-42	4	Y225M-2	45	380	815	530	225	460	460	1212	75	400	6-φ20	350	495	1564	350	200	335	295	26	8-φ23
200S-42A	4	Y200L2-2	37	380	775	475	200	480	480	1184		280			1524							
250S-39	4	Y280S-4	75	380	1000	640	280	620	620	1565		450	6-φ25		610	1931	450					
250S-39A	4	Y250M-4	55	380	930	575	250	550	550	1417	65	560	6-φ20	300	590	1861	350	250	390	350	28	12-φ23
250S-24	4	Y225M-4	45	380	845	530	225	520	520	1400						1784						
250S-24A	4	Y225S-4	37	380	820	530	225	550	550	1375	120	450	6-φ20	300	590	1759	350	250	390	350	28	12-φ23
250S-14	4	Y200L-4	30	380	775	475	200	520	520	1306		450	6-φ20	300	590	1654	350	250	390	350	28	12-φ23
250S-14A	4	Y180M-4	18.5	380	670	430	180	520	520	1234	120	450	6-φ20	300	590	1549						
300S-32	4	Y280M-4	90	380	1050	640	280	740	740	1710						2150						
300S-32A	4	Y280S-4	75	380	1000	640	280	740	740	1660	150	560	6-φ20	300	690	2100	350	300	440	400	28	12-φ23
300S-19	4	Y250M-4	55	380	930	575	250	600	600	1525						1922						
300S-19A	4	Y225M-4	45	380	845	530	225	590	590	1460	165	550	6-φ20	300	670	1837	350	300	440	400	28	12-φ23
300S-12	4	Y225S-4	37	380	820	530	225	600	600	1450						1827						
300S-12A	4	Y200L-4	30	380	775	475	200	580	580	1415	165	550	6-φ20	-	670	1782	350	-	-	-	-	-

■ **S型双吸离心泵安装尺寸图(不带底座)**
 S type double-suction centrifugal pump Installation drawing(without foundation)



电机尺寸Dimension of motor

■ **S型双吸离心泵安装尺寸表(不带底座)**
 S type double-suction centrifugal pump Installation dimension table(without foundation)

型号 Type	C	电动机Motor			电机尺寸 Dimension of motor						E	L	L ₂	吐出接管法兰尺寸 Flange of vomiting conical pipe						
		型号 Type	功率 Power KW	电压 Voltage V	L ₁	H	h	B	A	n-Ød ₁				Dg ₂	D ₂	Do ₂	b ₂	n-Ød ₂		
150S-100	4	Y280S-2	75	380	1000	280	640	368	457	4-φ24	300	—	—	150	280	240	24	8-φ23		
150S-78		Y250M-2	55		930	250	575	349	406	4-φ24									1647.5	569
150S-78A		Y225M-2	45		815	225	530	311	356	4-φ19									1532.5	520
150S-50	4	Y200L2-2	37	380	775	200	475	305	318	4-φ19	300	—	—	200	335	295	26	8-φ23		
150S-50A		Y200L1-2	30		775	200	475	305	318	4-φ19									1492.5	504
150S-50B		Y180M-2	22		670	180	430	241	279	4-φ15									1492.5	504
200S-95	4	Y315M-2	132	380	1310	315	865	457	508	4-φ28	375	—	—	200	335	295	26	8-φ23		
200S-95A		Y315S-2	110		1240	315	865	406	508	4-φ28									2094.5	695
200S-95B		Y280S-2	75		1000	280	640	368	457	4-φ24									1854.5	669
200S-63	4	Y280S-2	75	380	1000	280	640	368	457	4-φ24	350	—	—	200	335	295	26	8-φ23		
200S-63A		Y250M-2	55		930	250	575	349	406	4-φ24									1747.5	603
200S-42		Y225M-2	45		815	225	530	311	356	4-φ19									1677.5	581
200S-42A	4	Y200L2-2	37	380	775	200	475	305	318	4-φ19	350	—	—	200	335	295	26	8-φ23		
250S-65	4	Y315M-4	132	380	1340	315	865	457	508	4-φ28	500	—	—	250	390	350	28	12-φ23		
250S-65A		Y280M-4	90		1050	280	640	419	457	4-φ24									2444.5	777
250S-39		Y280S-4	75		1000	280	640	368	457	4-φ24									2154.5	721
250S-39A	4	Y250M-4	55	380	930	250	575	349	406	4-φ24	300	—	—	250	390	350	28	12-φ23		
250S-24	4	Y225M-4	45	380	845	225	530	311	356	4-φ19	300	—	—	250	390	350	28	12-φ23		
250S-24A		Y225S-4	37		820	225	530	286	356	4-φ19									1787.5	635
250S-14		Y200L-4	30		775	200	475	305	318	4-φ19									1762.5	557
250S-14A	4	Y180M-4	18.5	380	670	180	430	241	279	4-φ15	300	—	—	250	390	350	28	12-φ23		
300S-90	5	Y3554-4	315	6000	1820	355	780	900	630	4-φ28	500	—	—	300	440	400	28	12-φ23		

■ **S型双吸离心泵安装尺寸表(不带底座)**
 S type double-suction centrifugal pump Installation dimension table(without foundation)

型号 Type	C	电动机Motor			电机尺寸 Dimension of motor						E	L	L ₂	吐出接管法兰尺寸 Flange of vomiting conical pipe						
		型号 Type	功率 Power KW	电压 Voltage V	L ₁	H	h	B	A	n-φd ₁				Dg ₂	D ₂	Do ₂	b ₂	n-φd ₂		
300S-90A	5	Y3553-4	280	6000	1820	355	780	900	630	4-φ28	500	2998.5	949	300	440	400	28	12-φ23		
300S-90B		Y3551-4	220		1820	355	780	900	630	4-φ28		2998.5								
300S-58	4	Y315L2-4	200	380	1340	315	865	508	508	4-φ28	300	2483.5	795	300	440	400	28	12-φ23		
300S-58A		Y315L1-4	160		1340	315	865	508	508	4-φ28		2483.5								
300S-58B		Y315M-4	132		1340	315	865	457	508	4-φ28		2483.5								
300S-32	4	Y280M-4	90	380	1050	280	640	419	457	4-φ24	300	2153.5	714	300	440	400	28	12-φ23		
300S-32A		Y280S-4	75		1000	280	640	368	457	4-φ24		2103.5								
300S-19	4	Y250M-4	55	380	930	250	575	349	406	4-φ24	300	1912.5	624	300	440	400	28	12-φ23		
300S-19A		Y225M-4	45		845	225	530	311	356	4-φ19		1827.5	605							
300S-12	4	Y225S-4	37	380	820	225	530	286	356	4-φ19	-	1832.5	620	-	-	-	-	-		
300S-12A		Y200L-4	30		775	200	475	305	318	4-φ19		1787.5	574							
350S-125	7	Y4502-4	710	6000	2080	450	935	1120	800	4-φ35	750	3517.5	1123	350	520	470	38	16-φ25		
350S-125A		Y4501-4	630		2080	450	935	1120	800	4-φ35		3517.5	1123							
350S-125B		Y4004-4	500		1940	400	835	1000	710	4-φ35		3377.5	1103							
350S-75	5	Y4001-4	355	6000	1940	400	835	1000	710	4-φ35	500	3191.5	980	350	500	460	30	16-φ23		
350S-75A		Y3553-4	280		1820	355	780	900	630	4-φ28		3071.5	960							
350S-75B		Y3551-4	220		1820	355	780	900	630	4-φ28		3071.5	960							
350S-44	5	Y3551-4	220	6000	1820	355	780	900	630	4-φ28	300	3057.5	955	350	500	460	30	16-φ23		
350S-44A		Y315L1-4	160		1340	315	865	508	508	4-φ28		2577.5	856							
350S-26	4	Y315M-4	132	380	1340	315	865	457	508	4-φ28	300	2514.5	726	350	500	460	30	16-φ23		
350S-26A		Y280M-4	90		1050	280	640	419	457	4-φ24		2224.5	706							

■ **S型双吸离心泵安装尺寸表(不带底座)**
 S type double-suction centrifugal pump Installation dimension table(without foundation)

型号 Type	C	电动机Motor			电机尺寸 Dimension of motor						E	L	L ₂	吐出接管法兰尺寸 Flange of vomiting conical pipe					
		型号 Type	功率 Power KW	电压 Voltage V	L ₁	H	h	B	A	n-Ød ₁				Dg ₂	D ₂	Do ₂	b ₂	n-Ød ₂	
350S-16	4	Y280S-4	75	380	1000	280	640	368	457	4-φ24	—	2132.5	684						
350S-16A		Y250S-4	55	380	930	250	575	349	406	4-φ24		2062.5	1169						
500S-98	7	Y5002-6	800	6000	2550	500	1040	1250	900	4-φ42	1000	4196.5	1354						
500S-98A		Y4504-6	630	6000	2120	450	935	1120	800	4-φ35		3766.5	1234			500	670	620	34 20-φ25
500S-98B		Y4503-6	560	6000	2120	450	935	1120	800	4-φ35		3766.5	1234						
500S-59	7	Y4501-6	450	6000	2120	450	935	1120	800	4-φ35	800	3766.5	1229						
500S-59A		Y4005-6	400	6000	1940	400	835	1000	710	4-φ35		3586.5	1169			500	670	620	34 20-φ25
500S-59B		Y4003-6	315	6000	1940	400	835	1000	710	4-φ35		3586.5	1169						
500S-35	6	Y4002-6	280	6000	1940	400	835	1000	710	4-φ35	800	3309.5	1017						
500S-35A		Y3553-6	220	6000	1820	355	780	900	630	4-φ28		3189.5	997			500	670	620	34 20-φ25
500S-22	6	Y3553-6	220	6000	1820	355	780	900	630	4-φ28	600	3221.5	1010						
500S-22A		Y315L ₂ -6	132	380	1340	315	865	508	508	4-φ28		2741.5	871			500	670	620	34 20-φ25
500S-13	5	Y315L ₁ -6	110	380	1340	315	860	508	508	4-φ28	—	2653.5	815.5		—	—	—	—	
600S-75	7	Y5003-6	900	6000	2550	500	1040	1250	900	4-φ42	600	4251.5	1292						
600S-75A		Y5002-6	800	6000	2550	500	1040	1250	900	4-φ42		4251.5	1292			500	670	620	34 20-φ25
600S-47	7	Y4503-6	560	6000	2120	450	935	1120	800	4-φ35	600	3821.5	1172		500	670	620	34 20-φ25	
600S-32	6	Y4005-6	400	6000	1940	400	835	1000	710	4-φ35	—	3573.5	1053						
600S-32A		Y4002-6	280	6000	1940	400	835	1000	710	4-φ35		3555.5	1053			—	—	—	
600S-32B		Y3554-6	250	6000	1820	355	780	900	630	4-φ32		3435.5	1013						
600S-22	6	Y3554-6	250	6000	1820	355	780	900	630	4-φ32	—	3292.5	956						
600S-22A		Y3553-6	220	6000	1820	355	780	900	630	4-φ28		3292.5	956			—	—	—	—

S型双吸离心泵安装尺寸表(不带底座)
 S type double-suction centrifugal pump Installation dimension table(without foundation)

型号 Type	C	电动机Motor			电机尺寸 Dimension of motor						E	L	L ₂	吐出接管法兰尺寸 Flange of vomiting conical pipe				
		型号 Type	功率 Power KW	电压 Voltage V	L ₁	H	h	B	A	n-Ød ₁				Dg ₂	D ₂	Do ₂	b ₂	n-Ød ₂
800S-22	6	Y450-8	450	380	2080	450	1650	1120	800	4-φ35	4190	1191	800					
		Y450-10	250		2080	450	1650	1120	800	4-φ35	4190	1191						
Y450-8		315	2080		450	1650	1120	800	4-φ35	4190	1191							
Y355L-10		185	1590		355	990	630	610	4-φ35	3700	1050							
Y450-10		200	2080		450	1650	1120	800	4-φ35	4190	1191							
Y500-8		630	2220		500	1900	1250	900	4-φ42	4530	1457							
800S-32	7	Y450-10	315	6000	2080	450	1650	1120	800	4-φ35	4390	1337	800					
		Y450-8	450		2080	450	1650	1120	800	4-φ35	4390	1337						
Y450-10		250	2080		450	1650	1120	800	4-φ35	4390	1337							
Y1000-8/1180		1000	2480		930	1690	1800	1400	4-φ48	4990	1368							
Y500-10		450	2220		500	1900	1250	900	4-φ42	4730	1593							
Y500-8		710	2220		500	1900	1250	900	4-φ42	4730	1593							
800S-47	8	Y450-10	355	6000	2080	450	1650	1120	800	4-φ35	4590	1473	800	1015	950	42	4-φ33	
		Y1600-8/1430	1600		2690	950	1860	1900	1750	4-φ48	4970	1423						
Y800-10/1180		800	2380		930	1690	1700	1400	4-φ48	4660	1343							
Y1250-8/1430		1250	2540		930	1860	1800	1750	4-φ48	4820	1373							
Y500-10		630	2220		500	1900	1250	900	4-φ42	4500	1568							
Y1000-8/1180		1000	2480		930	1690	1800	1400	4-φ48	4760	1343							
800S-76A		Y500-10	500		2220	500	1900	1250	900	4-φ42	4500	1568						
800S-76B																		

S型双吸离心泵附件表
 S type double-suction centrifugal pump spare parts table

型号 Type	电动机Motor		底阀 Foot valve P=0.25MPa	过滤器(代号) Water filter (Code)	闸阀 Gate valve P=1MPa	止回阀 Check valve P=1MPa	吐出锥管(代号) Vomiting conical Pipe Code	底座(代号) Foundation Code	B4201 钩扳手 Hook wrench (代号) Code
	型号 Type	功率 Power KW							
150S-100	Y280S-2	75	150	-	150	150	Z100 × 10-150 × 10	D150S-100-Y280S-2	4552
150S-78	Y250M-2	55	150	-	150	150	Z100 × 10-150 × 10	D150S-78-Y250M-2	4552
150S-78A	Y225M-2	45	150	-	150	150	Z100 × 10-150 × 10	D150S-78A-Y225M-2	4552
150S-50	Y200L ₂ -2	37	150	-	150	150	Z100 × 10-150 × 10	D150S-50-Y200L-2	4552
150S-50A	Y200L ₁ -2	30	150	-	150	150	Z100 × 10-150 × 10	D150S-50A-Y200L-2	4552
150S-50B	Y180M-2	22	150	-	150	150	Z100 × 10-150 × 10	D150S-50B-Y180M-2	4552
200S-95	Y315M-2	132	200	-	200	200	Z125 × 10-200 × 10	-	6872
200S-95A	Y315S-2	110	200	-	200	200	Z125 × 10-200 × 10	-	6872
200S-95B	Y280S-2	75	200	-	200	200	Z125 × 10-200 × 10	-	6872
200S-63	Y280S-2	75	200	-	200	200	Z150 × 10-200 × 10	D200S-63-Y280S-2	4552
200S-63A	250M-2	55	200	-	200	200	Z150 × 10-200 × 10	D150S-78-Y250M-2	4552
200S-42	Y225M-2	45	200	-	200	200	Z150 × 10-200 × 10	D200S-42-Y225M-2	4552
200S-42A	Y200L ₂ -2	37	200	-	200	200	Z150 × 10-200 × 10	D200S-42A-Y200L ₂ -2	4552
250S-65	Y315M-4	132	250	-	250	250	Z150 × 10-250 × 10	-	7885
250S-65A	Y280M-4	90	250	-	250	250	Z150 × 10-250 × 10	-	7885
250S-39	Y280S-4	75	250	-	250	250	Z200 × 10-250 × 10	D250S-39-Y280S-4	6872
250S-39A	Y250M-4	55	250	-	250	250	Z200 × 10-250 × 10	D250S-39A-Y250M-4	6872
250S-24	Y225M-4	45	250	-	250	250	Z200 × 10-250 × 10	D250S-24-Y225M-4	6872
250S-24A	Y225S-4	37	250	-	250	250	Z200 × 10-250 × 10	D250S-24A-Y225S-4	6872
250S-14	Y200L-4	30	250	-	250	250	Z200 × 10-250 × 10	D250S-14-Y200L-4	4552
250S-14A	Y180M-4	18.5	250	-	250	250	Z200 × 10-250 × 10	D250S-14A-Y180M-4	4552
300S-90	Y3554-4	315	300	-	300	300	Z200 × 10-300 × 10	-	9095
300S-90A	Y3553-4	280	300	-	300	300	Z200 × 10-300 × 10	-	9095
300S-90B	Y3551-4	220	300	-	300	300	Z200 × 10-300 × 10	-	9095
300S-58	Y315L ₂ -4	200	300	-	300	300	Z250 × 10-300 × 10	-	7885
300S-58A	Y315L ₁ -4	160	300	-	300	300	Z250 × 10-300 × 10	-	7885
300S-58B	Y315M-4	132	300	-	300	300	Z250 × 10-300 × 10	-	7885

注：吐出锥管机钩扳手为随泵附件，其余按订货要求配带。
 Note:Both vomiting conical pipe and hook wrench are the accessories along with the pump and others may be fitted upon the requirement at order

S型双吸离心泵附件表
 S type double-suction centrifugal pump spare parts table

型号 Type	电动机Motor		底阀 Foot valve P=0.25MPa	过滤器(代号) Water filter (Code)	闸阀 Gate valve P=1MPa	止回阀 Check valve P=1MPa	吐出锥管(代号) Vomiting conical Pipe Code	底座(代号) Foundation Code	B4201 钩扳手 Hook wrench (代号)
	型号 Type	功率 Power KW							
300S-32	Y280M-4	90	300	-	300	300	Z250 × 10-300 × 10	D300S-32-Y280M-4	7885
300S-32A	Y280S-4	75						D300S-32A-Y280S-4	
300S-19	Y250M-4	55						D300S-19-Y250M-4	6872
300S-19A	Y225M-4	45	300	-	300	300	Z250 × 10-300 × 10	D300S-19A-Y225M-4	
300S-12	Y225S-4	37	300	-	300	-	-	D300S-12-Y225S-4	6872
300S-12A	Y200L-4	30						D300S-12A-Y200L-4	
350S-125	Y4502-4	710							
350S-125A	Y4501-4	630	-	L350 (73)	350	350	Z200 × 16-350 × 16	-	100110
350S-125B	Y4004-4	500							
350S-75	Y4001-4	365							
350S-75A	Y3553-4	280	-	L350 (73)	350	350	Z250 × 10-350 × 10	-	9095
350S-75B	Y3551-4	220							
350S-44	Y3551-4	220	-	L350 (73)	350	350	Z300 × 10-350 × 10	-	9095
350S-44A	Y315L-4	160							
350S-26	Y315M4	132							
350S-26A	Y280M-4	90	-	L350 (73)	350	350	Z300 × 10-350 × 10	-	7885
350S-16	Y280S-4	75	-	L350 (73)	500	-	-	-	6872
350S-16A	Y250M-4	55							
500S-98	Y5002-6	800	-	L500 (73)	500	500	-	-	135145
500S-98A	Y5001-6	710							
500S-98B	Y4503-6	560							
500S-59	Y4501-6	450							
500S-59A	Y4005-6	400	-	L500 (73)	500	500	Z350 × 10-500 × 10	-	100110 115130
500S-59B	Y4003-6	315							
500S-35	Y4002-6	280	-	L500 (73)	500	500	Z350 × 10-500 × 10	-	9095
500S-35A	Y3553-6	220							
500S-22	Y3553-6	220	-	L500 (73)	500	500	-	-	7885
500S-22A	Y355L2-6	132							

注：吐出锥管机钩扳手为随泵附件，其余按订货要求配带。
 Note:Both vomiting conical pipe and hook wrench are the accessories along with the pump and others may be fitted upon the requirement at order

S型双吸离心泵附件表
 S type double-suction centrifugal pump spare parts table

型号 Type	电动机Motor		底阀 Foot valve P=0.25MPa	过滤器(代号) Water filter (Code)	闸阀 Gate valve P=1MPa	止回阀 Check valve P=1MPa	吐出锥管(代号) Vomiting conical Pipe Code	底座(代号) Foundation Code	B4201 钩扳手 Hook wrench (代号)
	型号 Type	功率 Power KW							
500S-13	Y355L1-6	110	-	L500(73)	500	500	-	-	7885
600S-75	Y5003-6	900							
600S-75A	Y5002-6	800	-	L600 (73)	500	500	Z400 × 10-500 × 10	-	135145
600S-47	Y4503-6	560	-	L600(73)	500	500	Z400 × 10-500 × 10	-	135145
600S-32	Y4005-6	400							
600S-32A	Y4002-6	280	-	L600 (73)	500	500	-	-	100110 115130
600S-32B	Y3554-6	250							
600S-22	Y3554-6	250	-	L600 (73)	500	500	-	-	9095
600S-22A	Y3553-6	220							
800S-22	Y450-8	450							
	Y450-10	250							
	Y450-8	315							
800S-22A	Y355L-10	185	-	L800	600	600	-	-	9095
	Y450-10	200							
800S-32	Y500-8	630							
	Y450-10	315							
800S-32A	Y450-8	450	-	L800	600	600	-	-	100110
	Y500-10	250							
800S-47	Y1000-8/1180	1000							
	Y500-10	450							
800S-47A	Y500-8	710	-	L800	600	600	-	-	135145
	Y450-10	355							
800S-76	Y1600-8/1430	1600							
	Y800-10/1180	800							
800S-76A	Y1250-8/1430	1250	-	L800	800	800	-	-	135145
	Y500-10	630							
800S-76B	Y1000-8/1180	1000							
	Y500-10	500							

注：吐出锥管机钩扳手为随泵附件，其余按订货要求配带。
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■ 管路损耗参考表 Referencetable for pipeline loss

流量 Capacity(L/S)								
管径 Pipe diameter (mm)	1	2	4	6	8	10		
25	32.7	13.0						
38	3.5	14	55					
50	0.8	3.1	13	29				
65		1.6	3.2	7.1	13	20		
75		0.4	0.8	3.3	5.9	9.6	21.6	
100			0.23	0.8	1.3	2.1	6.8	8.6
125				0.23	0.4	0.63	1.3	2.7
150					0.16	0.26	0.58	1.1
175						0.11	0.27	0.5
200							0.13	0.26
250								0.07
300								

■ 管路损耗参考表 Reference table for pipeline loss

阀及弯管折合直管长度 (每个) The length of a straight pipe converted into from both valve and elbow(each)

种类 Variety	折合直管直径倍数 Concert into the times of the diameter of a straight pipe	倍数 Remark
标准弯管 Standard elbow	12	未畅开加倍 Multiple in case of unopen
全开闸阀 Fully opened gate valve	25	
逆止阀 Back valve	100	
底阀 Foot valve	100	部分堵塞加倍 Partial block-up multiplied

注：例如100mm直径管，底阀折合100倍直径等于 $100 \times 100 = 10000\text{mm} = 10\text{m}$ 直径长度，假定流量为8L/s，直管每100m损失1.3m，则10m损失0.13m，即一个100mm底阀，流量为8L/s时，则损失扬程0.13m。

Note: For instance, a 100mm diameter pipe, the foot valve has a $100 \times 100 - 1000\text{mm} = 10\text{m}$ diameter when which is converted into 100 times that of the pipe's diameter. Suppose the flow is 8L/s, looked into the above table, the loss of the straight pipe is 1.3m each 100m, then the one for 100mm is 0.13m, that is, for a 100mm foot valve with a flow 8L/s, its head loss is 0.13m.

一定管路直径之最大流量限制 Limit of the maximum flow for a pipe with a certain diameter

管路直径 Pipeline diameter mm	最大流量 Maximum flow L/S	最大流速 Maximum flow rate m/s	管路直径 Pipeline diameter mm	最大流量 Maximum flow L/S	最大流速 Maximum flow ra m/s
25	1	2.04	125	30.0	2.44
38	2.5	1.69	150	43.0	2.45
50	4.17	2.12	175	60.0	2.49
65	6.67	2.01	200	83.3	2.69
75	10.0	2.26	250	133.0	2.72
100	18.4	2.33	300	192.0	2.71

注：超过此限使管路损失显著增加。

Note: The pipeline loss would be made greatly increased once the limit is over.

■启动、停止和运行

启动与停止

- 1、起动前，转动泵的转子，应该轻滑均匀；
- 2、关闭出水闸阀，向泵内注水（如无底阀则用真空泵抽吸水），要保证泵内充满水，无空气窝存；
- 3、如果泵上装有真空表或压力表，要关闭其与泵相连接的旋塞再起电动机，待转速正常后再打开；然后逐渐打开出水闸阀，如流量过大，可以适当地关小闸阀进行调节；反之，流量过小时，将闸阀开大；
- 4、均匀地拧紧填料压盖上的压紧螺母，使液体成滴状漏出，同时注意填料腔外的温升；
- 5、当停止水泵运转时，要先关闭真空表及压力表的旋塞和出水管路上的闸阀，然后切断电动机的电源，如所处环境的温度较低时，则应将泵体下部的四方螺塞打开，去掉剩水，以免冻裂；
- 6、长期停止使用时，应拆开水泵，将零件上的水擦干，在加工表面涂上防锈油保管好。

运转

- 1、水泵轴承最高温度不应超过75℃，
- 2、润滑轴承用的钙基黄油数量以占轴承体空间的1/3~1/2为宜；
- 3、填料磨损时可适当压紧填料压盖，若磨损过多应予更换；
- 4、定期检查弹性联轴器部件，注意电机轴承温升；
- 5、运转过程中，如发现噪声或其他不正常的声音时，应立即停车，检查其原因，加以消除；
- 6、不得任意提高水泵的转速，但可以降低转速使用，如本型泵额定转速n，流量为Q，扬程为H，轴功率为N，降低转速为n1，降低后流量、扬程、轴功率分别为Q1、H1和N1，其相互关系，可用下列公式进行换算：

$$Q1=(\frac{n1}{n})Q$$

$$H1=(\frac{n1}{n})^2H$$

$$N1=(\frac{n1}{n})^3N$$

■Start,stop and run

Start and stop

- 1、 Before starting, move the rotor of the pump, which should be felt light, smooth and uniform.
- 2、 Close the water outlet valve, prime water into the pump (lead water by extracting with a vacuum pump in case of no foot valve). Ensure the pump full of water and no air nested inside of it.
- 3、 First close the plug of a vacuum or pressure meter, if so mounted on the pump, connected to the pump before starting the motor and then open it when the motor move in the normal speed; next, gradually open the water outlet gate valve and make it smaller in case of a large flow rate or bigger or bigger on the contrary.
- 4、 Uniformly tighten the pressing nut on the packing gland to have liquid leak in drops and pay attention to the temperature rise outside of the packing cavity.
- 5、 When to stop the pump, first close the plug of the vacuum or pressure meter and the gate valve on the water outlet pipeline, then cut off the power of the motor. Open the square screw plug on the lower side of the pump casing to let the residual water out to prevent frozen cracking in case of a lower ambient temperature.
- 6、 In a long time stop, remove the pump and dry the parts and coat rust-proof grease on the processed surface.

Running

- 1、 The maximum temperature of the pump's bearing must not be over 75℃.
- 2、 It is proper for the volume of the calcium-based grease lubricating the bearing to hold a space inside of the bearing body by 1/3 1/2.
- 3、 Properly press the packing gland in case of a little bit wear and replace it in case of too much wear.
- 4、 Take a periodic check of the elastic clutch and take care of the temperature rise with the motor's bearing.
- 5、 During running, stop it at once when noise or other abnormal sound is heard to find the cause and settle it.
- 6、 Do not raise the pump speed at will, but lowering it is allowed. For instance, with this type of pump, the rated rotating speed is n, flow rate is Q, head is H, axle power is N, lowered speed is n1, the flow rate, head and axle power after speed lowering are Q1, H1 and N1, respectively. Make conversion by means of the following formula.

$$Q1=(\frac{n1}{n})Q$$

$$H1=(\frac{n1}{n})^2H$$

$$N1=(\frac{n1}{n})^3N$$

■故障原因及排除方法 Failures causes and troubleshooting

故障 Failure	原因 Causes	消除方法 Troubleshooting
1、泵不吸水，压力表及真空表的指针剧烈跳动。 Pump not suck water, indicator of pressure and vacuum meters severely jumps.	1、注入的水不够； 2、管路或仪表漏气。 1. Injected water insufficient; 2. Leak occurs with pipeline or meter.	1、再往泵内注水； 2、拧紧堵塞漏气处。 1. Inject more water; 2. Tighten or block up the leak point.
2、泵不吸水，真空表显示高度真空。 Pump not suck water, high vacuum is shown on vacuum meter.	1、底阀没打开或已淤塞； 2、吸水管路的阻力太大； 3、吸水高度太高。 1. Foot valve not opened or blocked up; 2. Too big resistance with suction pipeline; 3. Too high water-suction height.	1、校正或更换底阀； 2、清洗或更换吸水管路； 3、降低吸水高度。 1. Correct or replace foot valve; 2. Rinse or replace pipeline; 3. Lower the height.
3、泵不出水，压力表显示有压力。 No water out of pump, pressure is shown on pressure meter.	1、出水管路阻力太大； 2、旋转方向不对； 3、叶轮堵塞； 4、转速不够。 1. Too big resistance with water outlet pipeline; 2. Wrong rotating direction; 3. Impeller blocked up; 4. Rotating speed not enough.	1、检查或缩短出水管路； 2、纠正电动机的旋转方向； 3、清洗叶轮； 4、检查电源电压，提高转速。 1. Check or shorten pipeline; 2. Correct the direction of motor; 3. Clean it; 4. Check power voltage and raise the speed.
4、流量不足或扬程太低。 Flowrate insufficient or too low head.	1、叶轮或进出水管路阻塞； 2、双吸密封环磨损过多，或叶轮损坏； 3、转速低于规定值。 1. Impeller or both water inlet and outlet pipelines blocked up; 2. Too much wear with dual-suction seal ring or impeller damaged; 3. Rotating speed is lower than the set value.	1、清洗叶轮或管路； 2、更换损坏的零件； 3、调正至额定转速。 1. Clean impeller or pipeline; 2. Replace it; 3. Adjust it to the rated value.

■故障原因及排除方法 Failures causes and troubleshooting

故障 Failure	原因 Causes	消除方法 Troubleshooting
5、泵消耗的功率过大。 Too large consumption of power by pump.	1、填料压得太紧； 2、叶轮与双吸密封环磨擦； 3、流量过大。 1.To too tightly pressed packing; 2.Friction between impeller and dual-suction seal rin; 3.To too large flowrate.	1、拧松填料压盖； 2、检查原因，消除机械磨擦； 3、减小闸阀开度。 1.Loosen it; 2.Check the cause to remove it; 3.Reduce the opening gate valve.
6、泵内部声音反常，泵不上水。 Abnormal sound inside of pump, no water goes upward into pump.	1、吸水管阻力过大； 2、吸水高度过高； 3、吸水处有空气吸入； 4、所吸送液体温度过高； 5、流量过大而产生汽蚀现象。 1.To too big resistance with suction pipeline; 2.To too high suction height; 3.Air is sucked into the water suck-in place; 4.To too high temperature with the liquid being sucked;	1、清理吸水管路及底阀； 2、降低吸水高度； 3、检查底阀；降低吸水高度，堵塞漏气处； 4、降低液体温度； 5、调节出水闸阀，使之在规定的性能范围内运转。 1.Make up suction pipeline and foot valve; 2.Lower it; 3.Check foot valve, lower suction height, block up the air leak place; 4.Lower it; 5.Adjust water outlet gate valve to have it run within the set range of performance.
7、泵不正常振动。 Abnormal vibration with pump.	1、泵发生了汽蚀； 2、叶轮不平衡； 3、泵轴与电动机轴不同心； 4、底脚螺栓松动。 1.Steam loss occurs with it; 2.Impeller is unbalanced; 3.Both pump and motor axles are not concentric; 4.Foot stud loose.	1、调节出水闸阀，使之在规定的性能范围内运转； 2、叶轮校正静平衡； 3、校正泵轴与电动机轴的同轴度； 4、拧紧底脚螺栓。 1.Adjust the valve to have it run within the set range of performance; 2.Take static correction for impeller; 3.Correct the concentricity; 4.Tighten it.
8、轴承过热。 Bearing over heated.	1、轴承内没有油； 2、泵轴与电机轴不在同一中心线上。 1.Lack of oil inside of it; 2.Both pump and motor axles not on one central line.	1、检查并清洗轴承体，加润滑油； 2、校正两轴的同轴度使在同一中心线上。 1.Check and clean bearing body, lubricate it; 2.Correct the concentricity to have both on one central line.