



SLS新系列单级单吸立式离心泵 (2023 版)

SLS NEW SERIES SINGLE-STAGE SINGLE-SUCTION VERTICAL CENTRIFUGAL PUMP



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产品概述 Outline of the product

SLS新系列单级单吸立式离心泵，是本公司采用优秀的水力模型，严格按照国际标准ISO 2858和国家标准GB 19762-2007《清水离心泵能效限定值及节能评价》设计制造的新颖产品，是替代IS型卧式泵、DL型泵等常规产品的新颖立式离心泵。

分基本型、扩流型、A、B、C切割型等200多种规格。根据流体介质和温度不同，设计造成同性能参数的SLR型热水泵、SLH型化工泵、SLY型油泵和SLHY型立式防爆化工泵系列产品。

产品特点 Product features

1、泵结构紧凑、体积小、外形美观。其立式结构重心较低且重心重合于泵脚中心，增强了泵的运行稳定性和寿命。

2、安装方便。进出口径相同并在同一中心线上，可像阀门一样直接安装在管路任何部位。电机加上防雨罩可置于户外使用。泵设有安装底脚，以使泵的安装稳定。

3、运行平稳、噪音低、组件同心度高。电机采用低噪音轴承，并设有不停机加油装置，泵叶轮具有极好的动静平衡，运行无振动，改善了使用环境。

4、无渗漏。轴封采用耐腐硬质合金机械密封，解决了离心泵填料严重渗漏问题，延长了使用寿命，确保了运行场地干净整洁。

5、维修方便。无需拆卸管道，只要拆下泵盖螺母，取出电机及传动组件即可进行检修维护。

6、可根据现场使用条件，泵机可立式、卧式、多方式安装，依据流量扬程要求，采用并、串联方式，增加所需流量扬程。

SLS new series single-stage single-suction vertical centrifugal pump, the company adopts excellent hydraulic model, in strict accordance with international standards ISO 2858 and national standard GB 19762-2007 centrifugal pump the water limit values of energy efficiency and energy conservation value, the design and manufacture of new products, alternative IS horizontal pump, DL is novel vertical centrifugal pump of pump such as conventional products.

There are basic type, by-passtype, A、B、C cutting type etc. more than 200 specifications. And per the different flow medium and temperature, SLR hot-water pump, SLH chemical pump and SLY oil pump and SLHY vertical non-explosive chemical pump. etc. series products. of the same type and same property data have been designed and made.

1. Pump compact structure, small volume, beautiful appearance. Its vertical center of gravity is lower and the center of gravity coincides with the center of pump foot, which enhances the running stability and service life of the pump.

2. Easy installation. The inlet and outlet diameters are the same and on the same center line, which can be directly installed in any part of the pipeline like a valve. The motor with rain cover can be used outdoors. The pump is provided with an installation foot to make the installation of the pump stable.

3. Stable operation, low noise and high concentricity of components. The motor adopts low noise bearing, and is equipped with non-stop refueling device, pump impeller has excellent dynamic and static balance, no vibration, improve the operating environment.

4. No leakage. The shaft seal adopts anticorrosive hard alloy mechanical seal, which solves the problem of serious leakage of centrifugal pump packing, prolonging the service life and ensuring the operation site is clean and tidy.

5. Convenient maintenance. Do not need to remove the pipe, just remove the pump cover nut, remove the motor and transmission components for maintenance.

6. The pump can be installed in vertical, horizontal and multi-mode according to the field operating conditions. The pump can be installed in parallel or series mode to increase the required flow head according to the requirements of flow head.

主要用途 Chief usage

1、SLS型立式离心泵，供输送清水及物理性质类似清水的其他液体之用。使用介质温度80℃以下。适用于工业和城市给排水、高层建筑增压送水、园林喷灌、消防增压、远距离输水、采暖、浴室冷暖水循环增压及设备配套等。

2、SLR型立式热水泵，适用于有供热系统的民用及企业事业单位的建筑住房供暖及热水增压、循环、输送等生产工艺供热系统，如电站、热电站、余热利用、冶金、化工、纺织、木材加工、造纸等工业锅炉高温热水，使用温度100℃以下。

3、SLH型立式化工泵，输送不含固体颗粒具有腐蚀性其粘度类似水的液体。适用于轻纺、石油、化工、冶金、电力、造纸、食品、制药和合成纤维等部门。使用温度-20℃~100℃。

4、SLY型立式防爆油泵，适用于石油、轻纺、化工、机械等行业输送无腐蚀、易燃、易爆液体，被输送介质温度-20℃~100℃。

介质密度 $\rho < 1000 \text{Kg/m}^3$ 。

5、SLHY型式防爆化工泵输送不含固体颗粒具有腐蚀性其粘度类似水且易燃易爆的液体。适用于石油、轻纺、化工、冶金、矿山、制药和合成纤维等部门，使用温度-20℃~100℃。

1. SLS type vertical centrifugal pump is used for transporting clean water and other liquids with physical properties similar to clean water. Medium temperature is below 80 °C . It is suitable for industrial and urban water supply and drainage, supercharging water supply in high-rise buildings, sprinkling irrigation in gardens, supercharging fire fighting, long-distance water supply, heating, supercharging water circulation in bathrooms and supporting equipment.

2. SLR type vertical hot water pump, suitable for a heating system of enterprises and institutions in civil and building housing heating and hot water pressurization, circulation, production process, such as heating system, such as power plant, thermal power plants, waste heat utilization, metallurgy, chemical industry, textile, wood processing, paper and other industrial boiler high temperature hot water, using temperature below 100 °C .

3. SLH type vertical chemical pump, transport does not contain solid particles with corrosive viscosity similar to water liquid. Suitable for light textile, petroleum, chemical industry, metallurgy, electric power, paper making, food, pharmaceutical and synthetic fiber sectors. Operating temperature: -20°C~100°C.

4. SLY type vertical explosion-proof oil pump, suitable for oil, textile, chemical, machinery and other industries to transport non-corrosive, flammable, explosive liquid, medium temperature -20 °C ~100 °C .

P is $\rho < 1000 \text{Kg/m}^3$.

5. SLHY type explosion-proof chemical pump transport does not contain solid particles with corrosive viscosity similar to water and flammable explosive liquid. Suitable for petroleum, light textile, chemical industry, metallurgy, mining, pharmaceutical and synthetic fiber and other sectors, using temperature -20 °C ~100 °C .

压力试验 Pressure test

设计压力 (泵扬程) Design pressure (pump head)	测试压力 The test pressure	承压零件材质 Material of pressure bearing parts
≤0.8MPa	(0.2+设计压力 Design pressure) × 1.3	灰铁 Grey iron (HT200)
>0.8MPa	设计压力 Design pressure × 1.3	灰铁 Grey iron (HT200)

做整机静压力测试，持续5min，不得有渗漏、冒汗等现象。

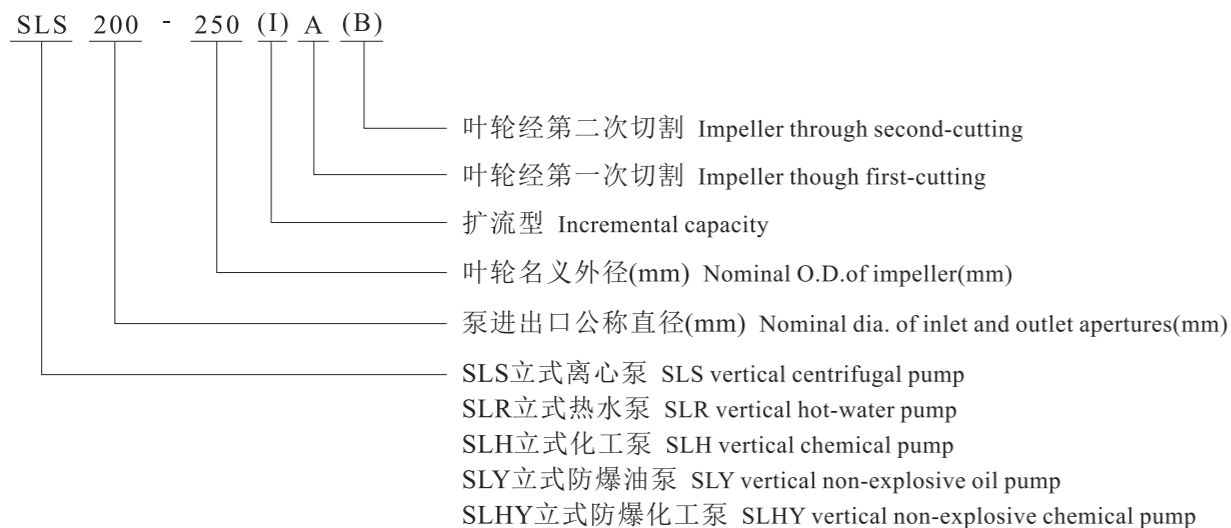
Do static pressure test for the whole machine for 5min, no leakage, sweat and other phenomena.

工作条件 Working conditions

1. 转速: 2960r/min、1480r/min
电压: 380V
口径: 15~350mm
流量范围: 1.5~1400m³/h
扬程范围: 4.5~150m
介质温度: -10℃~80℃
2. 泵最大工作压力(最大允许进口压力+泵设计压力) < 1.6MPa, 订货请注明系统工作压力; 最大允许进口压力0.4 MPa;
3. 适应介质: 清水介质、无腐蚀性液体。介质固体不溶物, 其体积不超过单位体积的0.1%, 粒度 < 0.2mm, 如介质为带有细小颗粒的请在订货时说明;
4. 周围环境温度不超过40℃; 相对湿度不超过95%; 海拔高度小于1000m。
5. 泵进、出口法兰尺寸相同, 可选配PN16-GB/T 9119-2010配对法兰。
6. 必须汽蚀余量值是设计点值, 实际使用应加0.5m的安全裕量。
7. 相关使用条件不符合样本的选型时须同公司技术部门联系。

1. Speed: 2960r/min, 1480r/min
Voltage: 380V
Aperture: 15~350mm
Flow range: 1.5~1400m³/h
Head range: 4.5~150m
Medium temperature: -10°C ~ 80°C
2. The maximum working pressure of the pump (maximum allowable inlet pressure + pump design pressure) < 1.6MPa, please indicate the working pressure of the system for ordering; The maximum allowable inlet pressure is 0.4MPa;
3. Suitable medium: water medium, non-corrosive liquid. Medium solid insoluble matter, its volume does not exceed 0.1% of the unit volume, particle size < 0.2mm, if the medium is with small particles, please explain when ordering;
4. Ambient temperature no more than 40 ° C; Relative humidity should not exceed 95%; The altitude is less than 1000m.
5. Pump inlet and outlet flanges have the same size, PN16-GB /T 9119-2010 matching flange is optional.
6. The required cavitation residual value is the design point value, and a safety margin of 0.5m should be added in actual use.
7. Contact the technical department of the company if the relevant operating conditions do not meet the selection of samples.

型号意义 Model meaning

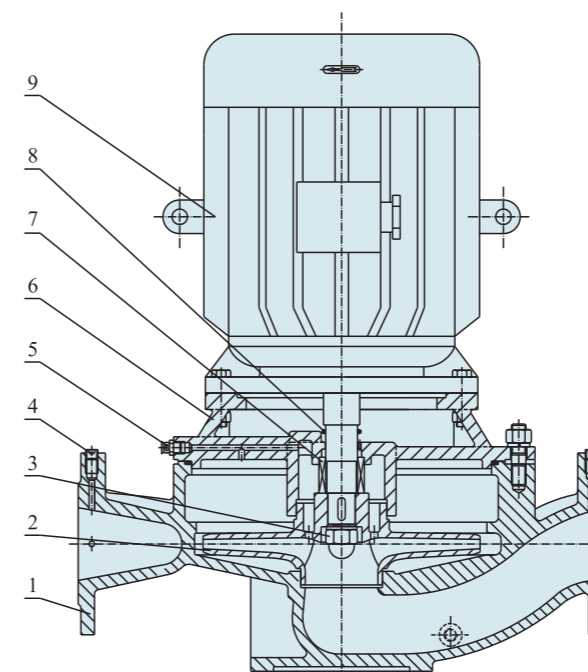


结构特征 Structural features

- 泵为单级单吸离心泵, 安装形式为立式。
- 泵壳
管路连接形式的螺旋形蜗壳, 采用现代优秀水力模型设计制造, 进出口在同一直线上, 且口径相同。法兰符合GB/T 17241.6-2008并可选配Rp1/4或Rp3/8测压口。
- 叶轮
闭式叶轮, 优秀的水力模型保证泵的效率 and 可靠性, 部分改进型号泵的功率较上一代下降一档。
- 电机
采用YE3系列超高效三相异步电动机, 功率和形式符合IEC-Norm。
形式: V1(立式泵)
电源: 380V, 50HZ
防护等级: F
电机轴: 45#钢镶套(连成专利)
转向: 从电机风扇端向下看为顺时针旋向。

- The pump is a single-stage single-suction centrifugal pump, and the installation form is vertical.
- The pump casing
Spiral volute with pipe connection is designed and manufactured by modern excellent hydraulic model. The inlet and outlet are on the same line with the same caliber. Flange conforms to GB/T 17241.6-2008 and can be equipped with Rp1/4 or Rp3/8 pressure port.
- The impeller
Closed impeller, excellent hydraulic model to ensure the efficiency and reliability of the pump, some improved pump power than the previous generation down a gear.
- Motor
YE3 series super-efficient three-phase asynchronous motor is adopted, whose power and form are in conformity with IEC Norm.
Form: V1(vertical pump)
Power supply: 380V, 50HZ
Protection level: F
Motor shaft: 45# steel sleeve (continuous patent)
Turning: clockwise from the fan end of the motor.

SLS(SLSD)型泵结构图 The configuration of SLS(SLSD) type pump



序号 No.	名称 Name	数量 Quantity
1	泵体 Pump casing	1
2	叶轮 Impeller	1
3	叶轮螺母 Impeller nut	1
4	螺塞 Plug	1
5	放气阀 Air discharge valve	1
6	泵盖 Pump cover	1
7	机械密封 Mechanical seal	1
8	挡水圈 Water-bloching ring	1
9	电机 Motor	1

泵材质 The pump material

泵体——铸铁 (HT200)

泵盖——铸铁 (HT200)

叶轮——铸铁 (HT200)

泵轴——45#钢镶套 (连成专利)

机封——石墨、碳化硅

注：上述材质为常规配置，相关材质可按客户要求予以变更。

Pump body -- cast iron (HT200)

Pump cover -- cast iron (HT200)

Impeller -- cast iron (HT200)

Pump shaft -- 45# steel sleeve (continuous patent)

Machine seal -- graphite, silicon carbide

Note: the above materials are conventional configuration, related materials can be changed according to customer requirements.

订货须知 Ordering instructions

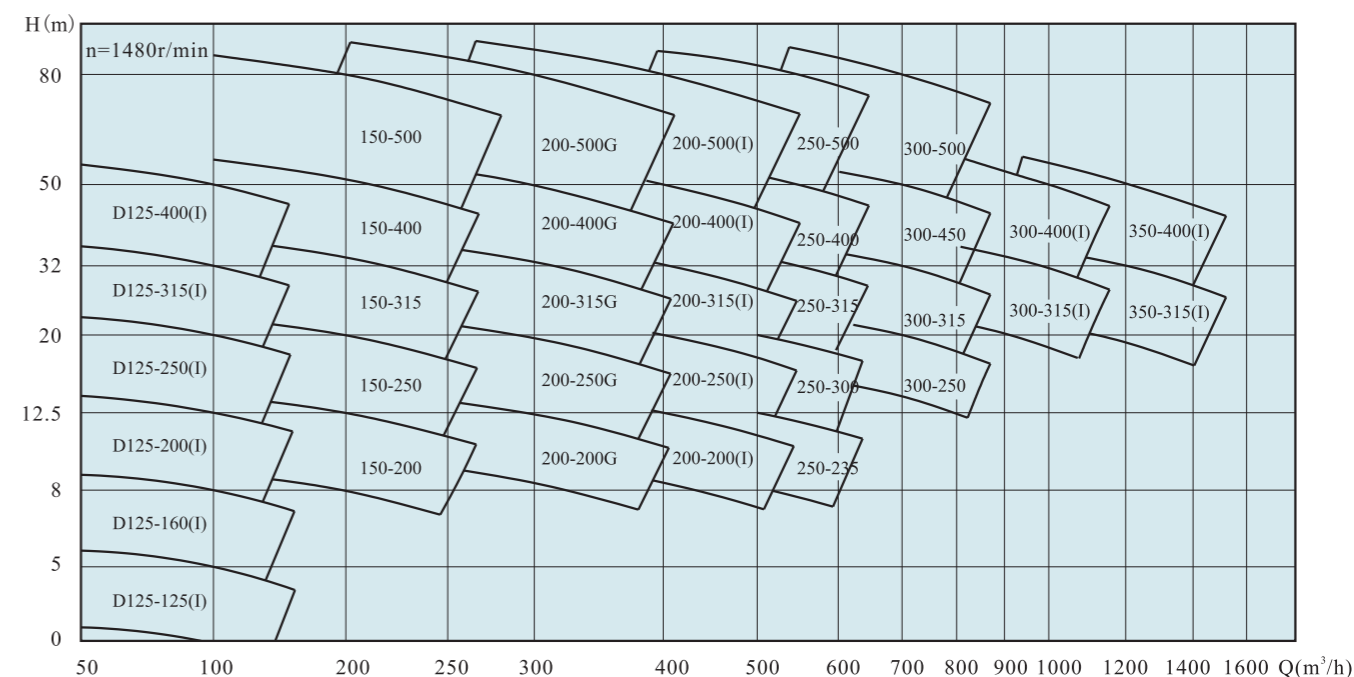
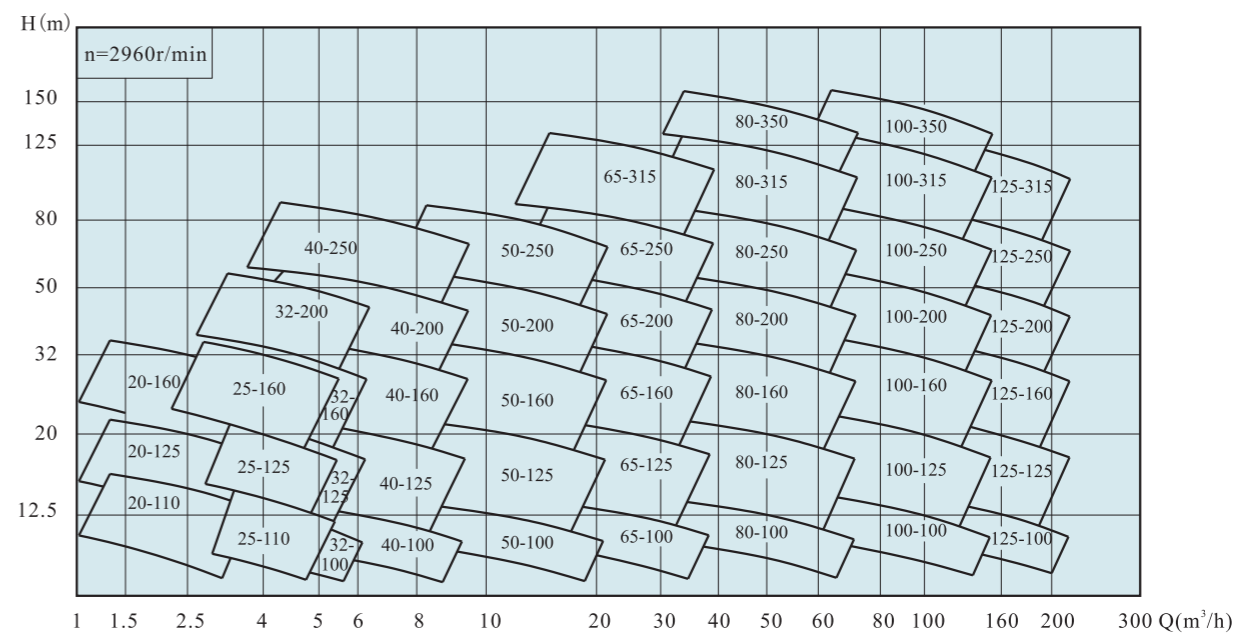
1、输送特殊液体时，请在合同中注明液体名称、温度、密度、浓度、粘性等；

2、对流量、扬程、进口压力，电机电压、频率、防爆等有特殊要求时，均需在合同签订前同技术部门沟通确认，并在合同中注明。

1. Please indicate the name of the liquid, temperature, density, concentration, viscosity, etc. in the contract when transporting special liquid;

2. Special requirements for flow rate, head, inlet pressure, motor voltage, frequency, explosion proof, etc. communicate and confirm with technical department before signing the contract, and indicate in the contract.

SLS型谱图 SLS atlas of style



SLS型泵性能参数 SLS type pump performance data

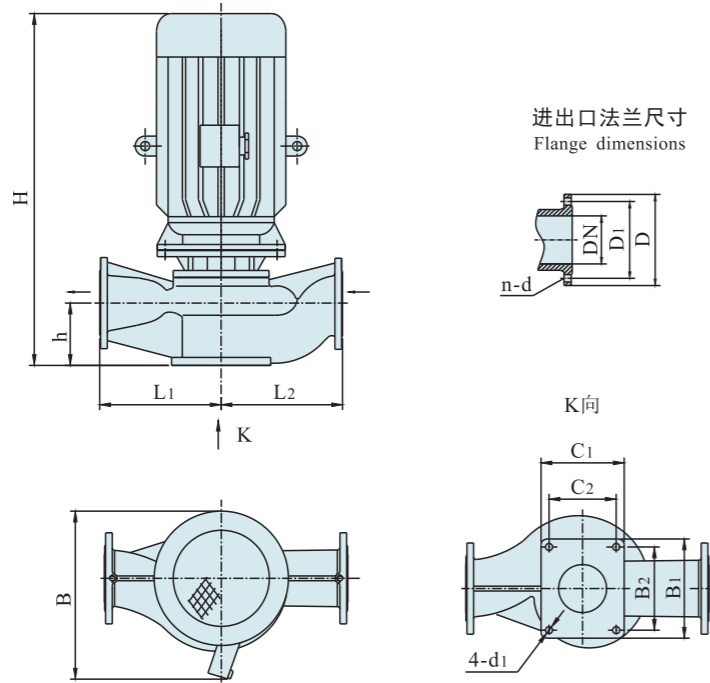
型号 Type	流量 Capacity		扬程 Head (m)	电机 功率 Power (kW)	转速 Speed (r/min)	效率 Eff. η (%)	必需汽 蚀余量 (NPSH) _r (m)	重量 Weight (Kg)
	(m³/h)	(L/s)						
SLS250-315	400.0 550.0 660.0	111.11 152.78 183.33	34.5 32.0 26.0	75	1480	85.0	5.5	1100
SLS250-315A	364.0 500.0 550.0	101.11 138.89 152.78	31.5 28.0 23.0	55	1480	84.7	5.5	692
SLS250-315B	350.0 500.0 550.0	97.22 138.89 152.78	26.2 25.0 22.5	45	1480	84.7	5.5	595
SLS250-400	400.0 550.0 660.0	111.11 152.78 183.33	54.0 50.0 40.0	110	1480	84.1	5.5	954
SLS250-400A	365.0 500.0 600.0	101.39 138.89 166.67	47.0 44.0 35.0	90	1480	84.0	5.5	954
SLS250-400B	336.0 460.0 552.0	93.33 127.78 153.33	40.0 37.0 30.0	75	1480	83.0	5.5	885
SLS250-500	400.0 550.0 660.0	111.11 152.78 183.33	85.0 80.0 73.0	200	1480	81.6	4.5	1342
SLS250-500A	375.0 515.0 620.0	104.17 143.06 172.22	74.0 70.0 61.2	160	1480	81.0	4.5	1280
SLS250-500B	350.0 480.0 580.0	97.22 133.33 161.11	64.0 60.0 52.5	132	1480	81.0	4.5	1181
SLS300-250	500.0 720.0 860.0	138.89 200.00 238.89	23.0 20.0 16.0	55	1480	84.2	6.0	810
SLS300-250A	460.0 660.0 790.0	127.78 183.33 219.44	20.0 17.5 14.0	45	1480	83.6	6.0	642
SLS300-315	500.0 720.0 860.0	138.89 200.00 238.89	35.0 32.0 27.0	90	1480	85.5	6.0	1038
SLS300-315A	460.0 660.0 790.0	127.78 183.33 219.44	30.0 28.0 23.0	75	1480	85.5	6.0	940
SLS300-315B	420.0 600.0 720.0	116.67 166.67 200.00	25.0 24.0 20.0	55	1480	85.2	6.0	820
SLS300-450	500.0 720.0 860.0	138.89 200.00 238.89	54.0 50.0 42.0	132	1480	85.8	6.0	1700
SLS300-450A	460.0 660.0 790.0	127.78 183.33 219.44	47.0 44.0 36.0	110	1480	85.5	6.0	1600
SLS300-450B	420.0 600.0 720.0	116.67 166.67 200.00	41.0 38.0 32.0	90	1480	85.2	6.0	1250
SLS300-500	500.0 720.0 860.0	138.89 200.00 238.89	86.0 80.0 69.0	250	1480	83.8	6.5	1685
SLS300-500A	465.0 670.0 800.0	129.17 186.11 222.22	75.0 70.0 60.4	200	1480	84.2	6.5	1565
SLS300-500B	430.0 620.0 740.0	119.44 172.22 205.56	64.5 60.0 51.8	160	1480	84.5	6.5	1472
SLS300-315(I)	630 900 1080	175.00 250.00 300.00	36.0 32.0 27.0	110	1480	85.0	6.0	1500

型号 Type	流量 Capacity		扬程 Head (m)	电机 功率 Power (kW)	转速 Speed (r/min)	效率 Eff. η (%)	必需汽 蚀余量 (NPSH) _r (m)	重量 Weight (Kg)
	(m³/h)	(L/s)						
SLS300-315(I)A	630 900 1080	175.00 250.00 300.00	33.0 28.0 22.0	90	1480	83.0	6.0	1280
SLS300-315(I)B	574 820 900	159.44 227.78 250.00	26.5 24.0 22.0	75	1480	80.0	6.0	1115
SLS300-400(I)	630 900 1080	175.00 250.00 300.00	56.5 50.0 44.0	160	1480	86.0	6.0	1675
SLS300-400(I)A	630 900 1080	175.00 250.00 300.00	46.0 40.0 34.0	132	1480	84.5	6.0	1585
SLS300-400(I)B	560 800 960	155.56 222.22 266.67	42.0 36.0 29.0	110	1480	83.0	6.0	1480
SLS350-235	560.0 800.0 960.0	155.56 222.22 266.67	14.0 12.5 10.5	37	1480	85.0	7.5	732
SLS350-300	560.0 800.0 960.0	155.56 222.22 266.67	22.5 20.0 17.5	75	1480	83.0	7.5	942
SLS350-315	560.0 800.0 960.0	155.56 222.22 266.67	35.5 32.0 28.5	90	1480	85.0	7.0	1002
SLS350-400	560.0 800.0 960.0	155.56 222.22 266.67	55.0 50.0 45.5	160	1480	85.0	6.5	1950
SLS350-315G	672.0 960.0 1152.0	186.67 266.67 320.00	35.0 32.0 26.0	132	1480	86.5	8.0	1750
SLS350-315GA	602.0 860.0 1032.0	167.22 238.89 286.67	30.0 28.0 23.0	110	1480	86.0	8.0	1600
SLS350-315GB	574.0 820.0 984.0	159.44 227.78 273.33	26.0 24.0 19.0	90	1480	85.1	8.0	1250
SLS350-400G	672.0 960.0 1152.0	186.67 266.67 320.00	53.0 50.0 44.0	200	1480	86.5	8.0	2000
SLS350-400GA	602.0 860.0 1032.0	167.22 238.89 286.67	46.6 44.0 38.0	160	1480	86.2	8.0	1850
SLS350-400GB	574.0 820.0 984.0	159.44 227.78 273.33	40.3 38.0 32.7	132	1480	86.1	8.0	1770
SLS350-315(I)	900.0 1200.0 1400.0	250.00 333.33 388.89	35.0 32.0 26.0	160	1480	86.3	9.0	1800
SLS350-315(I)A	820.0 1100.0 1300.0	227.78 305.56 361.11	30.0 28.0 23.0	132	1480	85.7	9.0	1750
SLS350-315(I)B	750.0 1000.0 1200.0	208.33 277.78 333.33	26.0 24.0 19.0	110	1480	84.9	9.0	1600
SLS350-400(I)	900.0 1200.0 1400.0	250.00 333.33 388.89	53.0 50.0 44.0	250	1480	87.1	9.0	2500
SLS350-400(I)A	850.0 1100.0 1320.0	236.11 305.56 366.67	46.6 44.0 38.0	200	1480	86.9	9.0	2450
SLS350-400(I)B	790.0 1050.0 1225.0	219.44 291.67 340.28	40.3 38.0 32.7	160	1480	86.8	9.0	2350

SLSD型泵性能参数 SLSD type pump performance data

型号 Type	流量 Capacity		扬程 Head (m)	电机 功率 Power (kW)	转速 Speed (r/min)	效率 Eff. η (%)	必需汽 蚀余量 (NPSH) _r (m)	重量 Weight (Kg)
	(m³/h)	(L/s)						
SLSD125-125(I)	60.0 100.0 120.0	16.67 27.78 33.33	6.5 5.0 4.0	2.2	1450	78.0	3.0	100
SLSD125-160(I)	60.0 100.0 120.0	16.67 27.78 33.33	10.0 8.0 7.0	4	1450	80.0	3.0	120
SLSD125-160(I)A	52.0 87.0 104.0	14.44 24.17 28.89	7.3 6.3 5.4	3	1450	79.0	3.0	109
SLSD125-200(I)	60.0 100.0 120.0	16.67 27.78 33.33	14.0 12.5 11.0	5.5	1450	78.0	3.0	145
SLSD125-200(I)A	51.7 86.0 103.0	14.36 23.89 28.61	10.8 9.3 8.2	4	1450	78.0	3.0	120
SLSD125-250(I)	60.0 100.0 120.0	16.67 27.78 33.33	21.5 20.0 18.5	11	1450	78.0	3.0	212
SLSD125-250(I)A	56.0 93.0 112.0	15.56 25.83 31.11	18.7 17.4 16.0	7.5	1450	78.0	3.0	165
SLSD125-250(I)B	52.0 87.0 104.0	14.44 24.17 28.89	16.0 15.0 14.0	5.5	1450	78.0	3.0	155
SLSD125-315(I)	60.0 100.0 120.0	16.67 27.78 33.33	33.5 32.0 30.5	15	1450	74.0	3.0	228
SLSD125-315(I)A	55.0 91.0 110.0	15.28 25.28 30.56	28.0 27.0 25.7	11	1450	74.0	3.0	214
SLSD125-315(I)B	47.0 79.0 95.0	13.06 21.94 26.39	21.0 20.0 18.0	7.5	1450	74.0	3.0	165
SLSD125-400(I)	60.0 100.0 120.0	16.67 27.78 33.33	52.0 50.0 48.5	30	1450	69.0	3.0	375
SLSD125-400(I)A	56.4 94.0 113.0	15.67 26.11 31.39	46.0 44.0 43.0	22	1450	69.0	3.0	295
SLSD125-400(I)B	52.3 87.0 105.0	14.53 24.17 29.17	39.0 38.0 37.0	18.5	1450	69.0	3.0	247
SLSD125-400(I)C	48.6 81.0 97.0	13.50 22.50 26.94	34.0 32.8 32.0	15	1450	67.0	3.0	239

SLS(SLSD)型泵安装尺寸图 SLS(SLSD) type pump dimension figure



SLS型泵安装尺寸表 SLS type pump dimension table

Table with 14 columns: Type, L1, L2, B, H, h, DN, d1, B1×C1, B2×C2, DN, D, D1, n-d. Lists dimensions for various pump models from 20-110 to 40-160B.

SLS型泵安装尺寸表 SLS type pump dimension table

Table with 14 columns: Type, L1, L2, B, H, h, DN, d1, B1×C1, B2×C2, DN, D, D1, n-d. Lists dimensions for various pump models from 40-200 to 80-315.

SLS型泵安装尺寸表 SLS type pump dimension table

Table with columns for Model Type, Figure dimensions (L1, L2, B, H, h, DN), Foot dimensions (d1, B1xC1, B2xC2), and Flange dimensions (DN, D, D1, n-d). Lists various pump models and their dimensions.

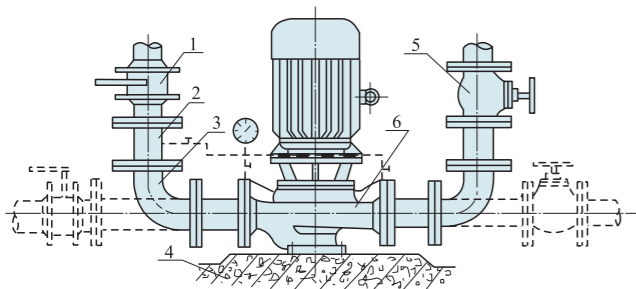
SLS型泵安装尺寸表 SLS type pump dimension table

Table with columns for Model Type, Figure dimensions (L1, L2, B, H, h, DN), Foot dimensions (d1, B1xC1, B2xC2), and Flange dimensions (DN, D, D1, n-d). Lists various pump models and their dimensions.

泵的安装方式 Installation methods for pump

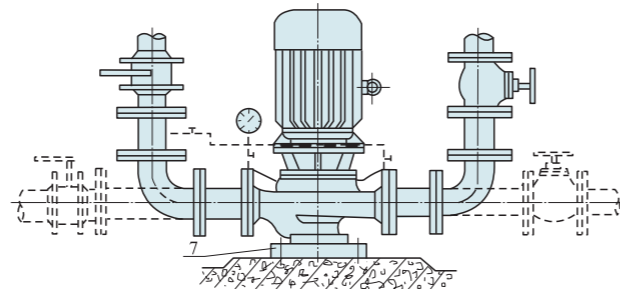
一、硬性联接 Rigid joint

1、直接安装 Direct mounting



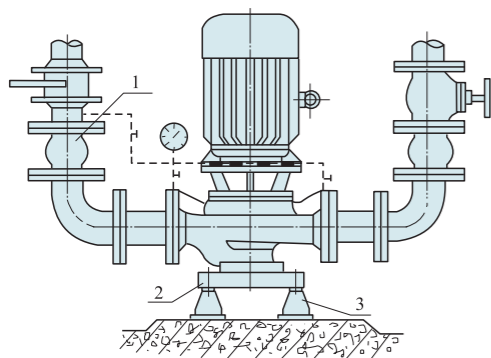
1、进口阀门 inlet valve 2、取压直管 pressure-picking straight tube 3、弯管 bent tube 4、水泥浇注基础 adobe cement pouring basement 5、出口阀门 outlet valve 6、泵 pump 7、联接板 connection board

2、联接板安装 Mounted with connection board



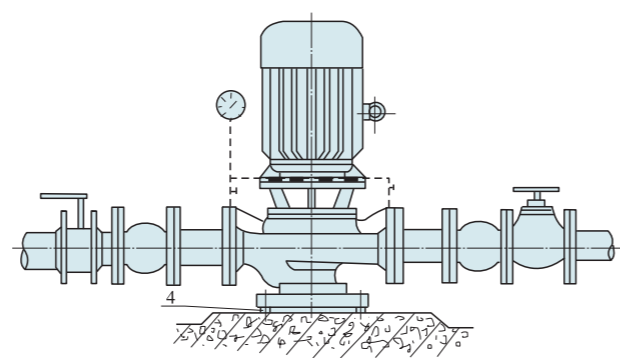
二、柔性联接 Soft joint

1、配联接板，加隔振器安装 Mounted with connection board and vibration isolator

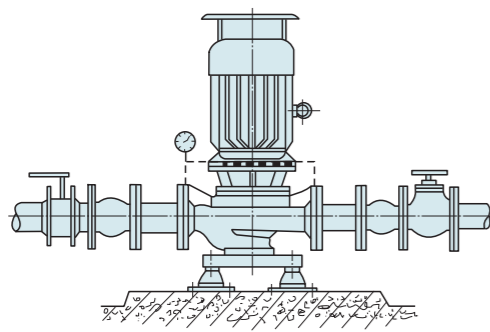


1、挠性接头 flexible joint 2、联接板 connection board 3、JG型隔振器 JG vibration isolator 4、SD型隔振垫 SD vibration-insulating pads

2、配联接板加隔振垫安装 Mounted with connection board and vibration-insulating pad

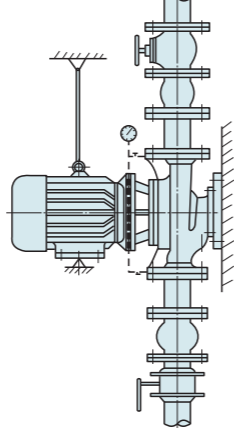


3、户外使用，采用IP54电机(户外型) For outdoor usage adopt IP54 motor(outdoor type)



注：隔振器用膨胀螺栓固定在基础上
Note: The vibration isolator is fixed on the base by the help of expansion screws.

4、悬臂卧式使用安装 Partial usage projects



管路损耗参考表 Reference table for pipeline loss

直管摩擦损失简表(供估计用)100m直管损失系数以新铸铁管为标准，旧管加倍。
Brief table for the frictional loss of a straight pipe(for evaluation),the lost meters of a 100m straight pipe takes the newly cast iron pipe as the standard and multiple for the old one.

管径 Pipe diameter (mm)	流量 Capacity (L/s)									
	1	2	3	4	5	6	7	8	9	10
25	32.7	130								
38	3.5	14	15	20						
50	0.8	3.1	13	29	25	30				
65		1.6	3.2	7.1	13	20	40	50		
75		0.4	0.8	3.3	5.9	9.6	19.4	21.6	60	70
100			0.23	0.8	1.3	2.1	6.8	8.6	80	90
125				0.23	0.4	0.63	1.3	2.7	4.1	5.9
150					0.16	0.26	0.58	1.1	1.6	2.3
175						0.11	0.27	0.5	0.74	1.05
200							0.13	0.26	0.37	0.53
250								0.07	0.12	0.18
300									0.12	0.19
									0.27	0.37
									0.48	0.68
									0.93	1.2
									1.5	2.1
									2.9	4.3
									4.2	6.4
									6.4	9.4
									9.4	13.0
									12.0	17.0
									16.0	22.0
									20.0	28.0
									25.0	35.0
									30.0	43.0
									35.0	52.0
									40.0	62.0
									45.0	73.0
									50.0	85.0
									55.0	98.0
									60.0	112.0
									65.0	127.0
									70.0	143.0
									75.0	160.0
									80.0	178.0
									85.0	197.0
									90.0	217.0
									95.0	238.0
									100.0	260.0
									105.0	283.0
									110.0	307.0
									115.0	332.0
									120.0	358.0
									125.0	385.0
									130.0	413.0
									135.0	442.0
									140.0	472.0
									145.0	503.0
									150.0	535.0
									155.0	568.0
									160.0	602.0
									165.0	637.0
									170.0	673.0
									175.0	710.0
									180.0	748.0
									185.0	787.0
									190.0	827.0
									195.0	868.0
									200.0	910.0
									205.0	953.0
									210.0	997.0
									215.0	1042.0
									220.0	1088.0
									225.0	1135.0
									230.0	1183.0
									235.0	1232.0
									240.0	1282.0
									245.0	1333.0
									250.0	1385.0
									255.0	1438.0
									260.0	1492.0
									265.0	1547.0
									270.0	1603.0
									275.0	1660.0
									280.0	1718.0
									285.0	1777.0
									290.0	1837.0
									295.0	1898.0
									300.0	1960.0

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

管径 Pipeline diameter (mm)	最大流量 Maximum flow (L/s)	最大流速 Maximum flow rate (m/s)	管径 Pipeline diameter (mm)	最大流量 Maximum flow (L/s)	最大流速 Maximum flow rate (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.

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 Convert into the times of the diameter of a straight pipe	备注 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	
截止阀 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100×100=10000mm=10m直径长度，假定流量为8L/s查上表，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 100mmdiameter pipe, the foot valve has a 100×100=10000mm=10m 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 low is 0.13m.

典型案例 typical case enterprise class



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麻城市商品粮基地建设领导小组办公室
麻城市商品粮基地
山东鲁能物资有限公司莱城分公司
浙江新乐造船有限公司
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陕西中兴百绿环保工程有限公司
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西安正德水处理有限公司
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