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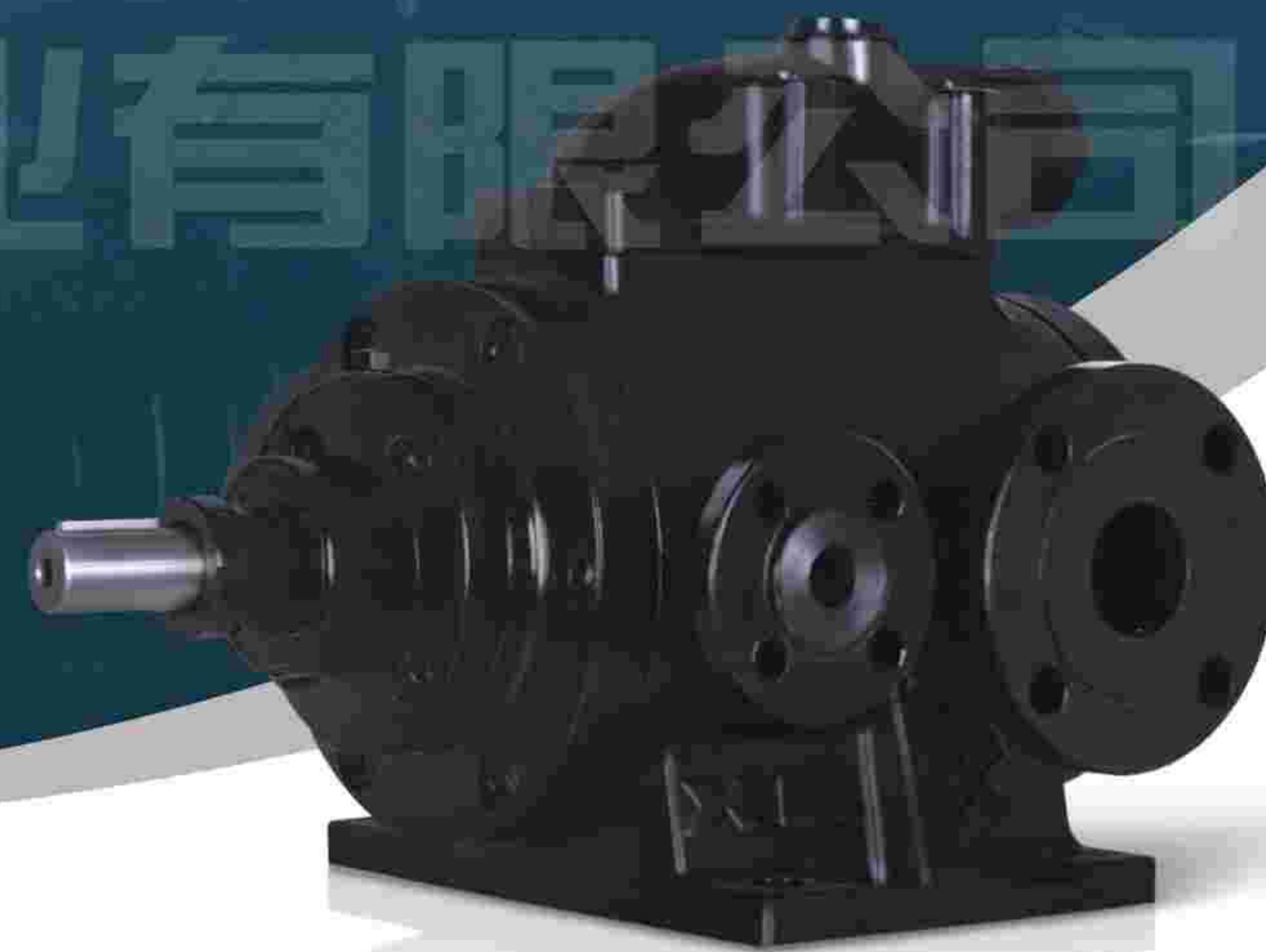
三螺杆泵

THREE SCREW PUMP

X3GB系列产品手册
X3GB SERIES PRODUCT MANUAL



杭州兴龙泵业有限公司



杭州兴龙泵业有限公司

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 杭州兴龙泵业有限公司 出品

专业提供三螺杆泵应用
解决方案





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公司简介

杭州兴龙泵业有限公司创立于1998年，是浙江省高新技术企业，专业从事粘稠物料泵送系统的研制与生产，对沥青输送泵具有丰富的技术经验。产品包括：三螺杆泵、双螺杆泵、单螺杆泵、转子泵、切碎机以及配套的控制系統。公司通过了中国船级社CCS质量体系认证，是中国天然气集团公司的一级物资供应商，中国螺杆泵专业委员会副主任委员单位，对相应核心技术拥有完全的自主知识产权。



COMPANY INTRODUCTION

In 1998, Hangzhou Xinglong Pump CO.,LTD is founded which is a high-tech enterprise in Zhejiang Province as a special manufacture for research and production of delivery system for viscous media. Especially we have rich technical experiences on the bitumen pump. Our products include three screw pump, twin screw pump, single screw pump, rotor pump, macerator and matching control system. We have passed the CCS (China Classification Society) quality system certification. Xinglong pump is a qualified supplier of China National Petroleum Corporation, a vice chairman enterprise of screw pump professional committee of China, has independent intellectual property rights of the core technology.

兴龙品质 Quality Of Xinglongpump

杭州兴龙泵业有限公司拥有高精度等级综合测试台，可以同时监测泵运行状态的流量、压力、电流、振动、噪声等参数。先进的检测设备，例如影像测量仪、三坐标测量仪、硬度计，确保各关键质量控制点符合设定要求。

Hangzhou Xinglong Pump Co., LTD has high precision grade comprehensive test station which can monitor running parameters of flow, pressure, current, vibration, noise etc at the same time. Advanced detection equipment such as image measuring instrument, three-dimensions detector, hardness tester will ensure the key quality control points in accordance with the requirement.



▲ 三坐标检测螺旋面
Three-dimensions detector is detecting helical surface



▲ 影像测量仪检测刀具
Image measuring instrument is detecting milling cutter



▲ 高精度等级综合测试台
High precision grade comprehensive test station



▲ 硬度检测
Hardness Tester

兴龙制造

Manufacture Of Xinglongpump

杭州兴龙泵业有限公司拥有多套先进制造设备，例如高精度数控螺杆铣床和螺杆铣刀加工设备、卧式加工中心和磨床，其加工能力和加工精度达到国内先进水平，决定了三螺杆泵具有高效的性能和优越的可靠性。

Hangzhou Xinglong Pump Co., LTD has many sets of advanced manufacturing equipments, such as high precision CNC screw milling and screw milling cutter machine, horizontal CNC machining center and grinding machine, its machining capability and machining accuracy have reached domestic advanced level. High efficient performance and excellent reliability of three screw pumps are obvious.



车间现场
Production Workshop

卧式加工中心
Horizontal CNC Machining Center

螺杆加工过程
Screw Milling Process



X3GB三螺杆泵的产品特点

Product Features of X3GB Series Three Screw Pump

X3G系列三螺杆泵的型号

MODEL OF X3G Series Three Screw Pump

产品特点

- 具有结构简单、维修方便、压力流量稳定、噪音低、自吸能力强以及效率高特点。
- 针对高温、高粘度介质特性，设计了专用的集装式机封，极大地确保轴封的密封性。
- 泵体内部另设有空心夹层，并配有相应的进出口法兰，可用于导热油、蒸汽、热水等对输送的介质和泵进行保温或冷却。

Product Features

- This product has the performance of simple structure, convenient for maintenance, stable pressure and capacity, low operation noise, good suction ability and high efficiency.
- The cartridge mechanical seal which is specially designed for conveying high-temperature and viscous media can greatly ensure the seal performance greatly.
- The pump casing has a hollow interlayer and is equipped with inlet and outlet flange, so can be used for thermal-insulation or cooling of media with heat-conducting oil, steam or hot water.

用途及使用范围

- 适用于输送不含固体颗粒，在常温下有凝固体的介质，例如沥青、重油、胶类、树脂、洗洁剂。
- 尤其适合高寒地区安装，或者工艺过程介质需要保温的场合。
- 介质温度：最高250℃。
- 介质粘度范围：3-760 mm²/s(如介质粘度超出此范围，可与我方技术沟通另行设计)

Application and available range

- Suitable for delivery media which does not contain solid particles, or delivery media which has concretions in normal temperature environment, such as bitumen, heavy oil, rubber, resin or abstergent.
- Especially suitable for alpine region or the field in which the media need thermal insulation.
- Maximum temperature of delivery medium is less than 250℃.
- Viscosity range: 3-760 mm²/s (If the viscosity of the media exceeds the upper limit, you can communicate with our technician)

企业标识

Corporate Logo



X-兴龙泵业

X-Xinglong Pump

主杆直径

Diameter Of Driving Screw

45
55
60
70
80
90
100
110
120
140
150

螺距数

Number Of Screw Pitch

2
3
4

螺旋升角

Pitch Angle

36
42
46
51

轴密封形式

Shaft Seal Style

- D-集装式机械密封
- T-填料密封
- J-单端面机械密封
- S-双端面机械密封
- P-金属波纹管机械密封
- D-Cartridge Mechanical Seal
- T-Packing Seal
- J-Single Mechanical Seal
- S-Double Mechanical Seal
- P-Bellows Mechanical Seal

材料代码

(详见表格)

Code Of Material
(See Table)

11
12
13
21
22
23
24
31
32
33
34

X 3G 60 X2-46 J 11

3G-三螺杆系列
3G-Three Screw Series Pump

- 缺省-常温
- B-保温功能
- Default-Normal Temp
- B-Thermal-insulation Function

功能代号
Function Series

系列代号

Code of series

- 缺省-内置轴承式
- W-外置轴承式

- Default-Inlay Bearing Style
- W-Outlay Bearing Style

结构
Structure

- 缺省-右进
- Z-左进

- Default-In From Right
- Z-In From Left

进口方向

轴端向泵端观察

Inlet Direction
(Observed From
Shaft end to Pump)

材料组合代号 Code Of Material	11	12	13	21	22	23	24	31	32	33	34
泵体 Pump Casing	HT250	HT250	HT250	ZG235	ZG235	ZG235	ZG235	Q235	Q235	Q235	Q235
衬套 Insert	QT450-10	ZrO ₂ -6%Pt-5Zr5	ZASi2Cu1Mg1Ni	QT450-10	QT450-10	ZrO ₂ -6%Pt-5Zr5	ZASi2Cu1Mg1Ni	QT450-10	QT450-10	ZrO ₂ -6%Pt-5Zr5	ZASi2Cu1Mg1Ni
主杆、丛杆 Driving Screw Driven Screw	38CrMoAl	38CrMoAl	38CrMoAl	42CrMo	38CrMoAl	38CrMoAl	38CrMoAl	42CrMo	38CrMoAl	38CrMoAl	38CrMoAl

X3GB三螺杆泵的基本结构

Basic Structure Of X3GB Series Three Screw Pump



1、一根主杆和二根从杆，对称平行分布并相互啮合，与衬套形成连续的相互隔离的密封腔。

螺杆采用优质合金钢，例如38CrMoAl，多道处理工艺并表面氮化处理，耐热、耐磨。

2、可采用球墨铸铁，或采用复合材料设计。衬套和螺杆紧密配合。

3、采用双轴套结构，轴向低压力平衡，使螺杆不易变形。其工作面耐磨，抗咬合，运行可靠。

4、双层密封铸钢独特设计，密封可靠。最大特点是维修过程中不会影响到保温管路。

5、后盖装在泵最后端，用于密封和限位作用。

6、所用品牌轴承承载力强。

7、为高温、粘性介质输送而专门设计的集装式机械密封，极大程度地保证密封，即使在输送介质变成固态状，其独特的设计弹簧也不会失去弹性。

8、在超出限定压力时能够更好的保护泵和输送管路。

1、One driving screw and two driven screws, consecutive separate hermetic spaces are formed by accurately fit of a insert and three parallel screws in mesh. Screws adopt with alloy steel (such as 38CrMoAl), multiple processes, special nitrogen treatment on surface, durable in heat and wear.

2、Material can be nodular iron or the composite material. Insert fits with screws.

3、Two balance sleeves bring the axial low-pressure balance, no distortion for the screws. Its working surface is durable in wear and occlusion, reliable operation.

4、Double seal design of cast steel, reliable seal ability. We will not affect the thermal-insulation pipeline system during the process of maintenance.

5、The end cover is installed in the final end of pump, it is used as sealing and limiting parts.

6、The brand bearing has strong load-bearing ability.

7、The cartridge mechanical seal which is specially designed for conveying high-temperature and viscous media can greatly ensure the seal performance even when the delivery media becomes solid state, its unique designed spring will not lose their elasticity.

8、Safety valve can protect pump and pipeline system when the pressure reaches the adjusted maximum one.

X3GB三螺杆泵的产品优势

Advantage Of X3GB Series Three Screw Pump

一、轴封可满足任何工况无泄漏

- ① 针对介质的高温、高粘度特性，设计了专用的集装式机封，极大地限度地确保轴封的密封。
- ② 即使在输送介质变成固态状，其独特的设计弹簧也不会失去弹性。
- ③ 其独特的流道设计，保证密封腔无干磨。

Shaft seal can meet any condition without leakage.

- ① The cartridge mechanical seal is specially designed for conveying high-temperature and viscous media, it will ensure the seal performance greatly.
- ② Even when the delivery media becomes solid state, its unique designed spring will not lose their elasticity.
- ③ The internal channel is designed to ensure that no dry-moving in the seal cavity.

二、良好的保温功能

- ① 泵体内部另设有空心夹层，并配有相应的进出口法兰，可连接保温介质管路系统。
- ② 维修过程中，保温管路系统不受任何影响。
- ③ 尤其适合高寒地区安装，或者工艺过程介质需要保温的场合。

Good thermal-insulation function

- ① The pump casing has a hollow interlayer, and is equipped with inlet and outlet flange, so it can be connected to thermal-insulation pipeline system.
- ② The thermal-insulation pipeline system is not affected during the process of maintenance.
- ③ Especially suitable for alpine region or the field in which the media need thermal insulation.

三、寿命长，运行可靠

- ① 螺杆采用优质合金钢，例如38CrMoAl。
- ② 螺杆经过多道热处理，最后表面氮化处理，耐腐蚀性、耐磨性极佳。
- ③ 部分高压介质会通过专门通道引入机械密封腔，极大地限度地确保轴封密封性。

The pump has the performances of long service life, operation reliability

- ① Screws adopt with alloy steel (such as 38CrMoAl).
- ② Screws are built by multiple heat treatment process, at last special nitrogen treatment on surface, durable in heat and wear.
- ③ Part of the high-pressure medium is feed into mechanical seal cavity through special channel. So it will greatly ensure the seal performance.

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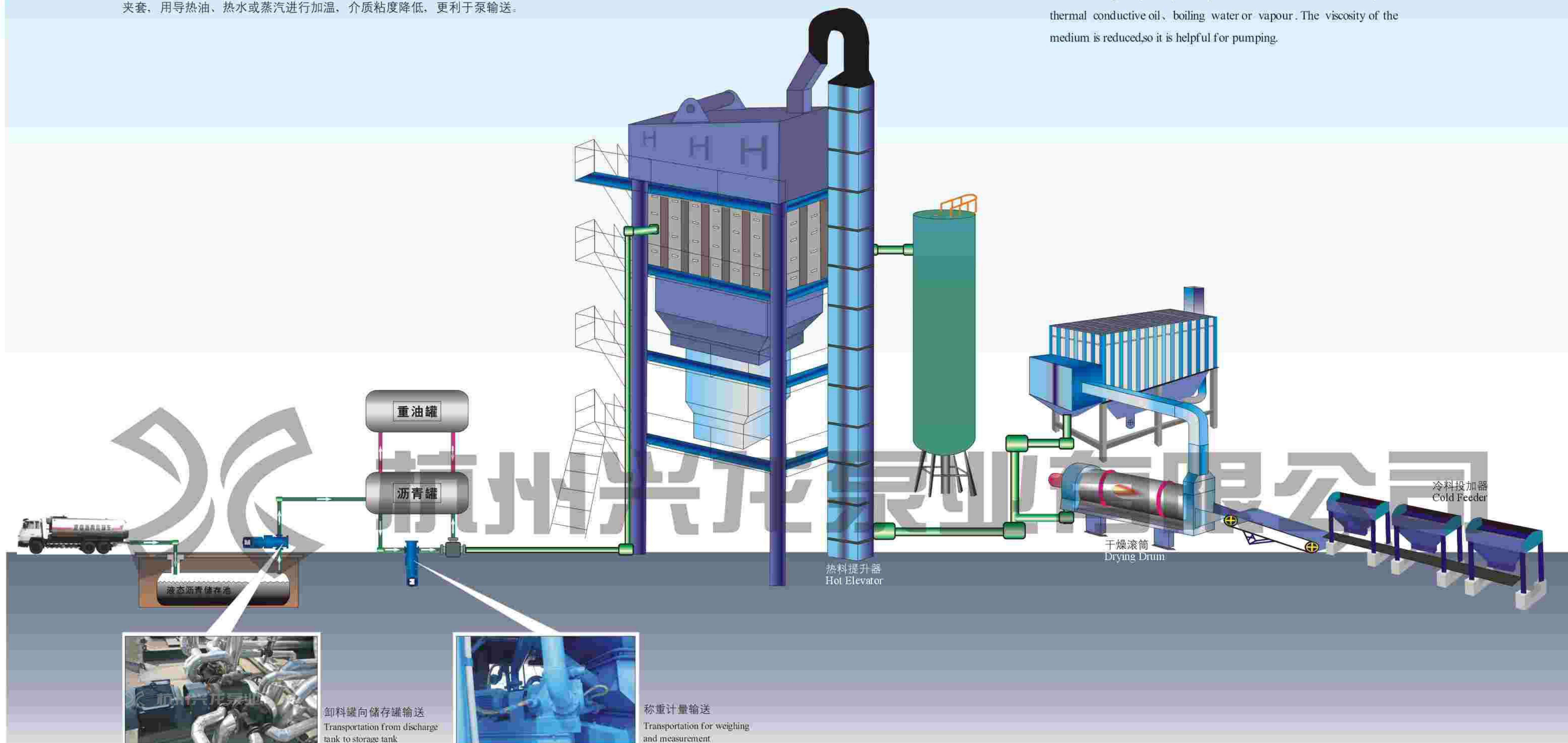
箭头所示保温系统管路法兰接口

X3GB三螺杆泵的应用领域

沥青搅拌站广泛应用保温三螺杆泵来输送沥青混合料或改性沥青混合料，完全能够满足修筑高速公路、机场或港口的需要。通过泵体自身的保温夹套，用导热油、热水或蒸汽进行加温，介质粘度降低，更利于泵输送。

Application Of X3GB Series Three Screw Pump

Three screw pump with thermal-insulation function is widely used in asphalt mixing station. It can pump asphalt mixture or modified asphalt mixture in highway, airport or port field. The medium is heated by the thermal conductive oil, boiling water or vapour. The viscosity of the medium is reduced, so it is helpful for pumping.



X3GB系列三螺杆泵基本参数表
 Basic Structure Of X3GB Series Three Screw Pump

泵型号 Model of Pump	流量 Flowrate		压力 Pressure	转速 Rotate Speed	必须气蚀余量 NPSHR	功率Power		电机规格 Motor Size	
						轴功率 Shaft Power	电机功率 Motor Power		
	m³/h	l/min	MPa	r/min	m	kW	kW		
45*3-36	2.99	49.89	0.6	950	5	0.68	1.1	90L-6-B3	
	2.9	48.26	1.0			1.15	1.5	100L-6-B3	
	2.8	46.64	1.6			1.83	3	132S-6-B3	
	2.54	42.29	2.5			2.8	4	132M1-6-B3	
	4.57	76.16	0.6	1450		1.03	1.5	90L-4-B3	
	4.42	73.68	1.0			1.73	2.2	100L1-4-B3	
	4.27	71.2	1.6			2.8	3	100L2-4-B3	
	3.87	64.58	2.5			4.31	5.5	132S-4-B3	
45*2-46	4.28	71.28	0.6	950	5.5	1.03	1.5	100L-6-B3	
	4.14	69.96	1.0			1.72	2.2	112M-6-B3	
	4	66.63	1.6			2.8	4	132M1-6-B3	
	6.53	108.8	0.6	1450		1.75	2.2	100L1-4-B3	
	6.32	105.3	1.0			2.61	3	100L2-4-B3	
	6.1	101.7	1.6	950		3.75	5.5	132S-4-B3	
7.81	130.2	0.6	1.42			2.2	112M-6-B3		
7.55	125.9	1.0	2.53			4	132M1-6-B3		
11.7	194.5	0.6	2.74			4	112M-4-B3		
11.3	189.3	1.0	4.24			5.5	132S-4-B3		
60*2-43	8.6	143.4	0.6	950		2.06	3	132S-6-B3	
	8.27	137.9	1.0			3.18	4	132M1-6-B3	
	13.1	218.9	0.6	1450		3.15	4	112M-4-B3	
	12.6	210.5	1.0			4.86	7.5	132M-4-B3	
60*2-46	9.89	164.8	0.6	950		2.33	3	132S-6-B3	
	9.73	162.2	0.8			2.91	4	132M1-6-B3	
	9.56	159.4	1.0			3.61	5.5	132M2-6-B3	
	15.1	251.6	0.6	1450		3.56	5.5	132S-4-B3	
	14.6	243.3	1.0			5.51	7.5	132M-4-B3	
	70*2-46	16	266.3	0.6		950		3.71	5.5
15.5		258.9	1.0	5.73				7.5	160M-6-B3
24.4		406.4	0.6	5.66				7.5	132M-4-B3
23.7		395.2	1.0	1450		8.75	11	160M-4-B3	
80*2-36	16.8	280.3	0.6	950	5.5	3.5	5.5	132M2-6-B3	
	16.3	271.2	1.0			5.41	7.5	160M-6-B3	
	25.7	427.8	0.6	5.43		7.5	132M-4-B3		
	24.8	413.9	1.0	8.51		11	160M-4-B3		
60*2-46	24	400.1	0.6	950		5.52	7.5	160M-6-B3	
	23.4	389.5	1.0			8.6	11	160L-6-B3	
	36.6	610.3	0.6			8.43	11	160M-4-B3	
	35.7	594.5	1.0	1450		13.1	15	160L-4-B3	
80*2-51	29.1	485.3	0.6			6.31	11	160L-6-B3	
	27.9	464.9	1.0			10.5	15	180L-6-B3	
	44	733.6	0.6			9.61	11	160M-4-B3	
	42.6	709.6	1.0	16		18.5	180M-4-B3		

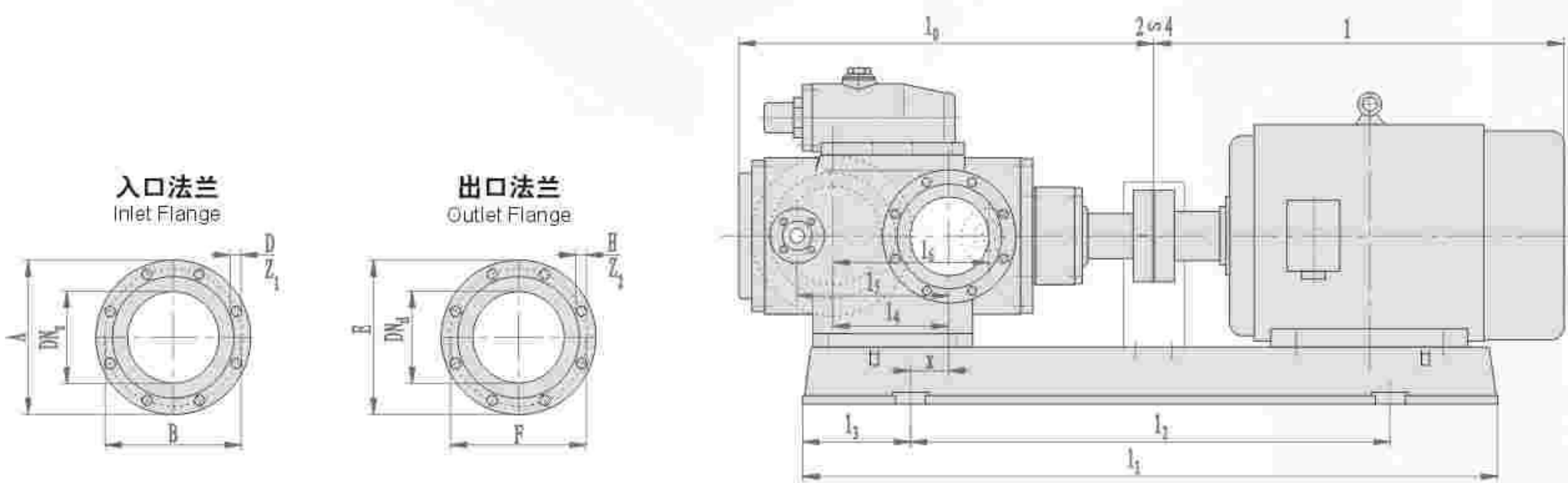
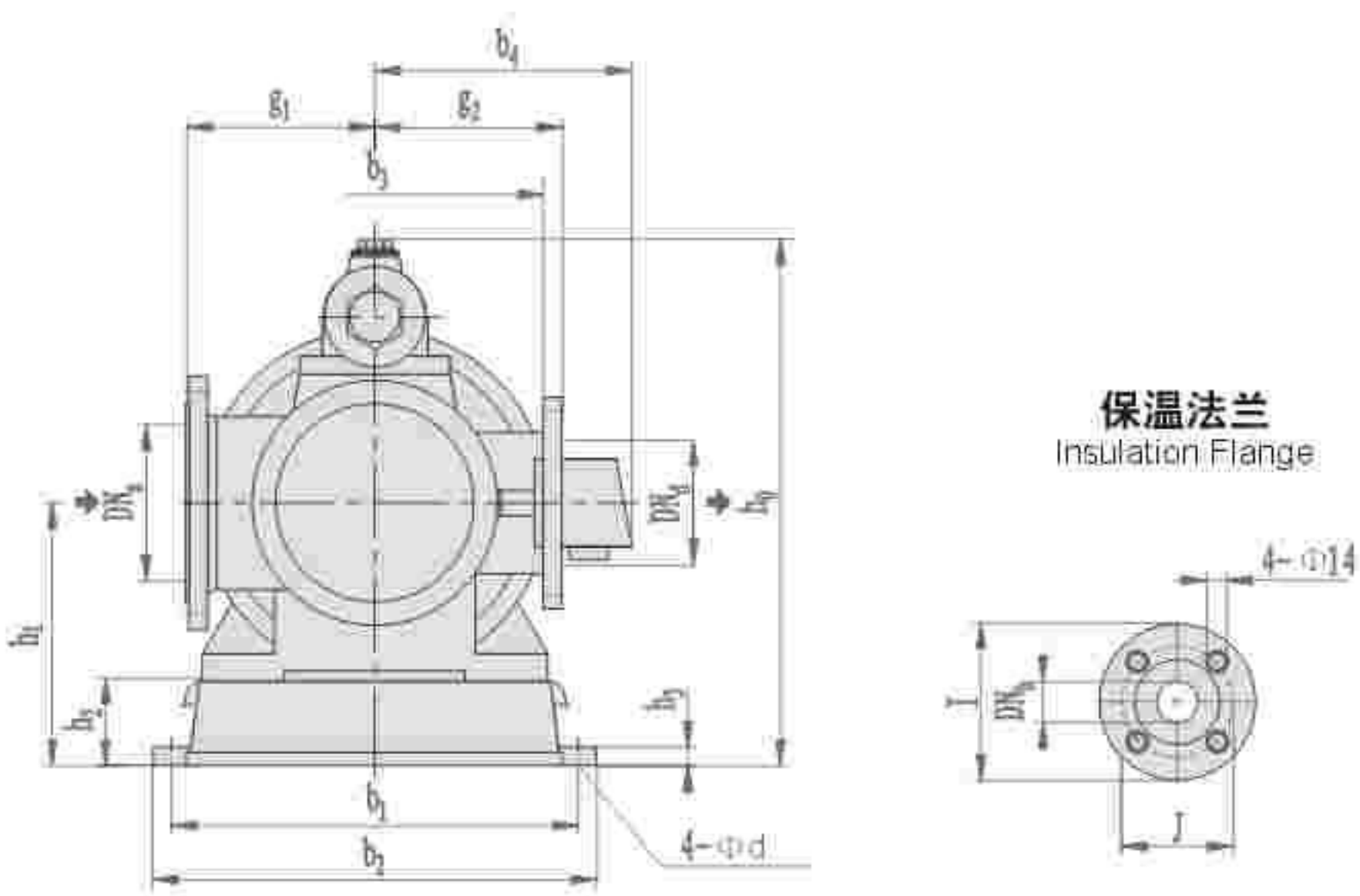
以上数据是以介质在温度在180℃,粘度在120mm²/s的条件下性能参数。
 The above datum are based on the medium in the temperature at 180℃, viscosity in the 120mm²/s performance parameters.

X3GB系列三螺杆泵基本参数表
 Basic Structure Of X3GB Series Three Screw Pump

泵型号 Model of Pump	流量 Flowrate		压力 Pressure	转速 Rotate Speed	必须气蚀余量 NPSHR	功率Power		电机规格 (Motor Size)
						轴功率 Shaft Power	电机功率 Motor Power	
	m³/h	l/min	MPa	r/min	m	kW	kW	
90*2-36	24	399.2	0.6	950	5.5	5.52	7.5	160M-6-B3
	23.2	386.2	1.0			8.52	11	160L-6-B3
	37	615.9	0.6	1450		8.42	11	160M-4-B3
	36.1	602.4	1.0			13	15	160L-4-B3
90*2-42	28.3	470.9	0.6	950		6.6	11	180L-6-B3
	27.5	457.6	1.0			10.2	15	180L-6-B3
	43.1	718.8	0.6	1450		10.0	15	160L-4-B3
	41.9	698.5	1.0			15.5	18.5	180M-4-B3
90*2-46	34.2	570.3	0.6	950		7.9	11	160L-6-B3
	34	566.7	0.8			9.7	11	160L-6-B3
	33.1	551.7	1.0			11.4	15	180L-6-B3
	52.6	876.4	0.6	1450		12.0	15	160L-4-B3
	52	866	0.8			14.9	18.5	180M-4-B3
	51.4	856.1	1.0			18.6	22	180L-4-B3
100*2-46	48.7	812.2	0.6	950		10.8	15	180L-6-B3
	48	800.1	0.8			13.3	15	160L-6-B3
	46.9	782.3	1.0	1450		16.7	22	200L2-6-B3
	72.7	1212	0.6			16.5	18.5	180M-4-B3
100*2-51	72	1200	0.8	950		20.4	30	180L-4-B3
	71.2	1187	1.0			25.5	38	200L-4-B3
	56.9	949.9	0.6	1450		12.5	15	180L-6-B3
	55.7	928.6	1.0			20.8	30	225M-6-B3
	86.9	1448	0.6	1450		19.1	22	180L-4-B3
	85	1417	1.0			31.8	37	225S-4-B3
110*2-46	60.9	1015	0.6	950	13.7	18.5	200L1-6-B3	
	58.9	981.7	1.0		21.8	30	225M-6-B3	
	98.7	1611	0.6	1450	21.9	30	200L-4-B3	
	94.6	1577	1.0		33.9	45	225M-4-B3	
120*2-42	67.9	1131	0.6	950	15.5	18.5	200L1-6-B3	
	65.4	1090	1.0		24.5	30	225M-6-B3	
	108	1802	0.6	1450	24.7	30	200L-4-B3	
	105	1760	1.0		38.2	45	225M-4-B3	
126*2-46	79.6	1327	0.6	950	17.8	22	200L2-6-B3	
	77.2	1286	1.0		28.2	37	250M-6-B3	
	125	2101	0.6	1450	28.5	37	225S-4-B3	
	123	2059	1.0		44.1	55	250M-4-B3	
140*2-46	128	2147	0.6	950	28.3	37	250M-6-B3	
	125	2093	1.0		44.8	55	280M-6-B3	
	202	3375	0.6	1450	45.3	55	250M-4-B3	
	199	3321	1.0		70.0	90	280M-4-B3	
150*2-46	158	2640	0.6	950	34.6	45	280S-6-B3	
	154	2582	1.0		54.5	75	315S-6-B3	
	242	4030	0.6	1450	53.8	75	280S-4-B3	
	237	3942	1.0		82.2	90	280M-4-B3	

以上数据是以介质在温度在180℃,粘度在120mm²/s的条件下性能参数。
 The above datum are based on the medium in the temperature at 180℃, viscosity in the 120mm²/s performance parameters.

X3GB系列三螺杆泵安装尺寸
 Installation Dimension of X3GB series
 three screw pump



泵型号 Model of Pump	电机规格 Motor Size	底座尺寸 Base Plate Dimension								泵尺寸 Pump Dimension												
		l_1	l_2	l_3	b_1	b_2	h_2	h_3	d	l_4	l_5	l_6	g_1	g_2	b_3	$\times$						
45*2-46 45*3-36	90L	680	430	145	315	355	85	25	18	157	180	180	130	130	240	34						
	100L	705	415																			
	112M	777	485		340	380	97															
	132S																					
	132M																					
55*2-46	112M	736	536	100	325	385	90	25	22	125	157	157	150	150	290	62						
	132S	765	585																			
	132M	823	610		360	420																
60*2-43 60*2-46	112M	750	490	130	340	400	90	25	22	114	140	140	165	165	314	49						
	132S	840	585														125					
	132M																					
70*2-46	132M	910	670	120	380	440	100	25	23	170	211	208	180	180	350	87						
	160M	990	750		410	470																
80*2-36	132M	930	705	125	370	440	87	25	23	109	176	179	196	185	350	94						
	160M	1010	750		400												460	100				
80*2-46 80*2-51	160M	1010	750	140	380	440	100	25	23	193	218	221	195	185	350	123						
	160L	1080	800														420	480				
	180M	1080	800		420	480																
	180L	1120	840		420	480																
90*2-36 90*2-42 90*2-46	160M	1090	700	100	410	480	100	25	23	198	236	236	220	220	412	90						
	160L																					
	180M																120			80		
	180L																					
100*2-46 100*2-51	180M	1250	800	230	450	510	110	30	23	208	280	280	245	245	460	93						
	180L																					
	200L																220	490	550	125		98
	225S																250	520	600	150		62
	225M																					
110*2-46	200L	1380	920	220	570	630	115	30	23	220	323	323	240	240	460	110						
	225M	1440	980														230					
120*2-42 120*2-46 120*2-51	200L	1380	920	230	570	630	115	30	23	270	350	350	250	250	480	150						
	225S	1440	980																			
	225M																					
	250M															1500	1000	250	630	690	135	120
140*2-46	250M	1642	1160	240	590	650	140	30	23	290	380	380	300	300	550	125						
	280M	1739	1200		270	650										710	95					
150*2-46	280S	1680	1200	240	650	710	140	30	23	240	380	385	300	300	560	123						
	315S	1800	1320		780	840	175	35														

外形尺寸 Outline Dimension					入口法兰 Inlet Flange					出口法兰 Outlet Flange					保温法兰 Insulation Flange		
b ₄	l ₀	l	h ₁	h ₀	DN _s	A	B	D	Z ₁	DN _d	E	F	H	Z ₂	DN _b	I	J
155	443	350	205	370	40	145	110	19	4	40	145	110	19	4	20	105	75
180		390															
190		410															
210		485	217	400													
210		525															
190	490	412	222	480	50	160	125	19	4	50	160	125	19	4			
210		482															
210		520															
190	470	412	222	458	50	160	125	19	4	50	160	125	19	4			
210		482															
210		520															
210	593	530	260	488	65	185	145	19	4	65	185	145	19	4			
255		611															
210	565	526	265	492	80	195	160	19	8	85	185	145	19	4			
255		618															
255	636	618	278	505	80	195	160	19	8	80	195	160	19	8			
255		663															
285		688															
285		728															
255	614	614	260	571	100	215	180	19	8	100	215	180	19	8			
255		659															
285		684															
285		724															
285	698	688	290	582	125	245	210	19	8	125	245	210	19	8			
285		728															
310		788	305	597													
345		833															
345		858	330	635													
310	837	788	340	676	200	335	295	23	12	150	280	240	23	8			
345		858													645		
310	868	808	380	730	200	335	295	23	12	150	280	240	23	8			
345		850															
345		875															
365		960															
365	1038	1018	420	841	250	405	355	28	12	200	335	295	23	12			
410		1075															
410	1053	1035	420	850	300	460	410	28	12	250	405	355	28	12			
550		1220													455	910	

X3GB系列三螺杆泵选型表

三螺杆泵数据表		用 户		
		制造厂	杭州兴龙泵业有限公司	
项目名称		联系人		
邮 箱		电 话		传 真
交 货 期		数量 台。其中：运行 台，备用 台		安装条件 ☐ 室内 ☐ 室外 ☐ 采暖
环境温度 正常 ℃，极限 ℃		爆炸区域 类 级 组		大气压力 kPa
泵名称		泵型号		
1、工作条件				
输送介质		介质特性 ☐ 腐蚀 ☐ 磨蚀 ☐ 易燃 ☐ 易爆		
流量 正常 m³/h，额定 m³/h		泵送温度 正常 ℃，最高 ℃，最低 ℃		
流量调节 ☐ 变速， ☐ 旁路，范围 m³/h		密度 m³/h		
出口压力 MPa，最大 MPa		粘度 mm²/s		
进口压力 MPa		固体含量 %wt(湿基)， 粒度 μm		
额定压差 MPa		含气量（泵进口压力下） %		
装置气蚀余量NPSHa mH₂O		汽化压力 kPa		
泵体 ☐ 不加热 ☐ 加热 ☐ 冷却		操作状态 ☐ 间断 ☐ 连续		
2、泵性能				
流量 额定 m³/h		转速 r/min		
流量调节范围 m³/h		轴功率 kW		
压力 额定 MPa		效率 %		
必需气蚀余量NPSHr mH₂O				
3、结构				
泵体设计压力 MPa		安全阀 ☐ 有 ☐ 无		
进口 DN mm PN MPa 密封 ☐ 水平 ☐ 垂直		密封 ☐ 单端面机械密封 ☐ 双端面机械密封		
出口 DN mm PN MPa 密封 ☐ 水平 ☐ 垂直		☐ 填料密封 ☐ 集装式机械密封		
动力传动方式 ☐ 直连 ☐ 联轴器 ☐ 减速机 ☐ 皮带		☐ 金属波纹管机械密封		
联轴器 ☐ 梅花型 ☐ 弹性柱销 ☐ 膜片式		保温夹套 ☐ 有 ☐ 无		
颜色 ☐ 兴龙设定： ☐ 其他		轴承 冷却夹套 ☐ 有 ☐ 无		
4、材料				
泵体 ☐ HT250 ☐ ZG235 ☐ Q235 ☐ 其他		轴封 静环 动环		
衬套 ☐ QT450-10 ☐ ZCuSn5Pb5Zn5 ☐ 其他		辅助密封 弹簧		
螺杆 ☐ 38CrMoAl ☐ 42CrMo ☐ 其他		其他材料要求		
5、辅助管路				
保温流体 名称 m³/h		冷却 ☐ 填料室 ☐ 夹套 ☐ 轴承座		
流量 MPa		流量 m³/h 温度 ℃		
压力 MPa		压力 进 MPa，出 MPa		
6、驱动装置				
型号 功率 kW		电机防护等级 绝缘等级		
转速 r/min		防爆要求		
电源 电压 三相，频率 Hz		减（变）速机		
7、检验与试验				
机械运转试验 ☐ 需要 ☐ 见证		加压试验 ☐ 需要 ☐ 见证		
性能试验 ☐ 需要 ☐ 见证		汽蚀试验 ☐ 需要 ☐ 见证		
特殊要求				
9、供货范围				
☐ 泵 ☐ 电动机 ☐ 安全阀 ☐ 联轴器及护罩 ☐ 底座		专用工具		
☐ 地脚螺栓 ☐ 进出口配对法兰		随机附件（附清单）		
☐ 轴封管路系统 ☐ 润滑管路系统		两年操作备件（附清单）		
10、其他				
机组总重 kg其中：泵 kg 电机 kg 底座 kg		安装尺寸图号		

Data Sheet Of X3GB Series Three Screw Pump

Data Sheet of Three Screw Pump		User		
		Producer	Hangzhou Xinglong Pump Co.,LTD	
Project Name		Connected Person		
E – mail		TEL		Fax
Delivery Date		QTY. Operated Spare		Installation condition ☐ indoor ☐ outdoor ☐ heat
Ambient Temp. Normal ℃,Limit ℃		Explosion area style level		Pressure of atmosphere kPa
Name of Pump		Model of Pump		
1、Operating Conditions				
Delivered Media		Features ☐ Corrosive ☐ Abrasive ☐ Flammable ☐ Explosive		
Capacity Normal m³/h, Rated m³/h		Pump's Temp. Normal ℃,Max ℃,Min ℃		
Regulate Q ☐ Change Speed, ☐ By-pass,range m³/h		Density m³/h		
Discharge Pressure MPa, Max MPa		Viscosity mm²/s		
Suction Pressure MPa		Solid Content %Wt(Humid level), Granularity μm		
Rated Margin MPa		Air Content (under suction pressure) %		
NPSHa mH₂O		Vaporized Pressure kPa		
Pump Casing ☐ unheat ☐ heat ☐ cool		Operated State ☐ interrupted ☐ continuous		
2、Performance				
Capacity Rated m³/h		No.of rev r/min		
Capacity Range m³/h		Power of Shaft kW		
Pressure Rated MPa		Efficiency %		
NPSHr mH₂O				
3、Structure				
Pump's Designed Pressure MPa		Emergency valve ☐ With ☐ Without		
Suction DN mm PN MPa Seal ☐ horizontal ☐ vertical		Seal ☐ Single Mechanical Seal ☐ Double Mechanical Seal		
Discharge DN mm PN MPa Seal ☐ horizontal ☐ vertical		☐ Packing Seal ☐ Cartridge Mechanical Seal		
Driven Style ☐ direct-coupled ☐ coupled ☐ reducer ☐ strap		☐ Bellows Mechanical Seal		
Coupling ☐ cloverleaf ☐ elastic pin ☐ diaphragm		Heat-insulation Interlayer ☐ With ☐ Without		
Color ☐ Xinglong's Standard color ; ☐ others		Bearing Cooling Jacket ☐ With ☐ Without		
4、Materia				
Pump Casing ☐ HT250 ☐ ZG235 ☐ Q235 ☐ others		Axial Seal Stationary ring Primary ring		
Insert ☐ QT450-10 ☐ ZCuSn5Pb5Zn5 ☐ others		Accessory Seal Spring		
Screw ☐ 38CrMoAl ☐ 42CrMo ☐ others		Other Requirement about Material		
5、Accessory Pipeline				
Heat-insulation Name		Cooling ☐ Packing Chamber ☐ Jacket ☐ Bearing pedestal		
Capacity m³/h		Capacity m³/h Temp. ℃		
Pressure MPa		Pressure Suction MPa, Discharge MPa		
6、Actuating Device				
Model Power kW		Protection Class Insulation Class		
No. Of rev r/min		Explosion-Proof		
Power Supply Voltage 3-Phase, Frequency Hz		Reducer		
7、Inspection and Test				
Test Of Mechanical Operation ☐ require ☐ witness		Test of Hydraulic Pressure ☐ require ☐ witness		
Test Of Performance ☐ require ☐ witness		Test of NPSHr ☐ require ☐ witness		
Special Requirements				
9、Scope of Supply				
☐ Pump ☐ Motor ☐ Emergency Valve ☐ Coupling and shield ☐ chassis		Special Tool		
☐ Foundation Bolt ☐ Suction and Discharge Flange		Supplied Accessories		
☐ Pipeline System of Axila Seal ☐ Pipeline System of Lubrication		Spare Parts in 2 years		
10、Others				
Total Weight kg, Pump kg, Motor kg, Chassis kg		Drawing No. Of Installation Dimension		