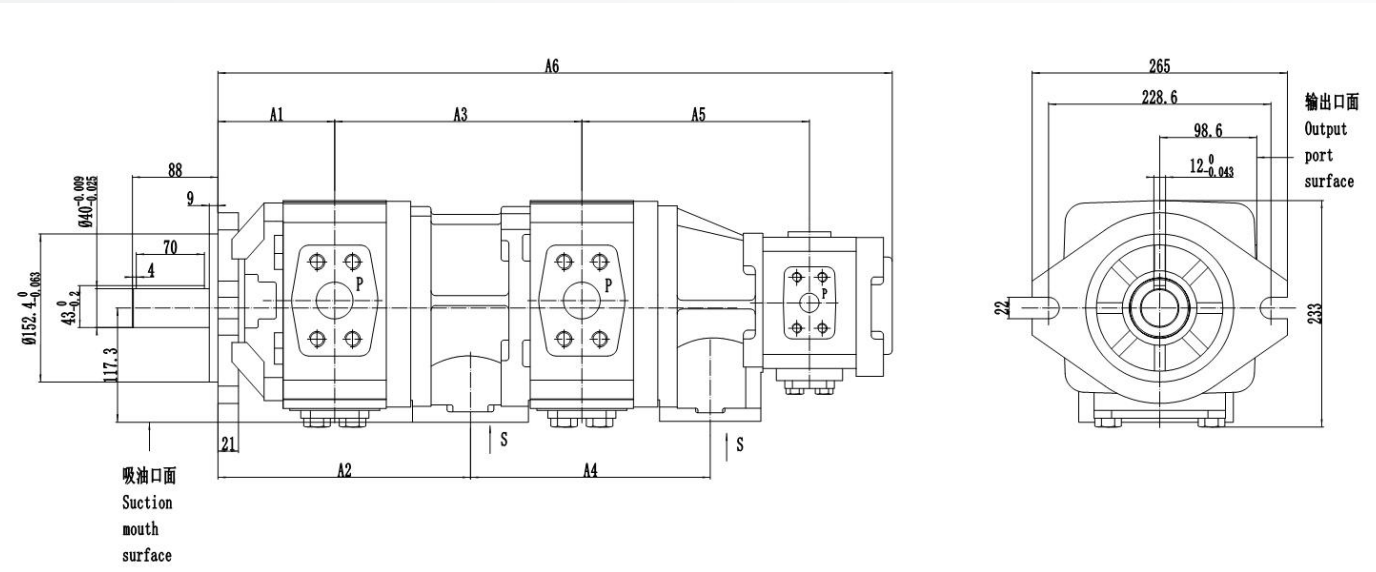


三联泵FG221-**-**-01R-VPC-D (P型平键轴)
Triplex pump FG221-**-**-01R-VPC-D (P-type flat shaft)

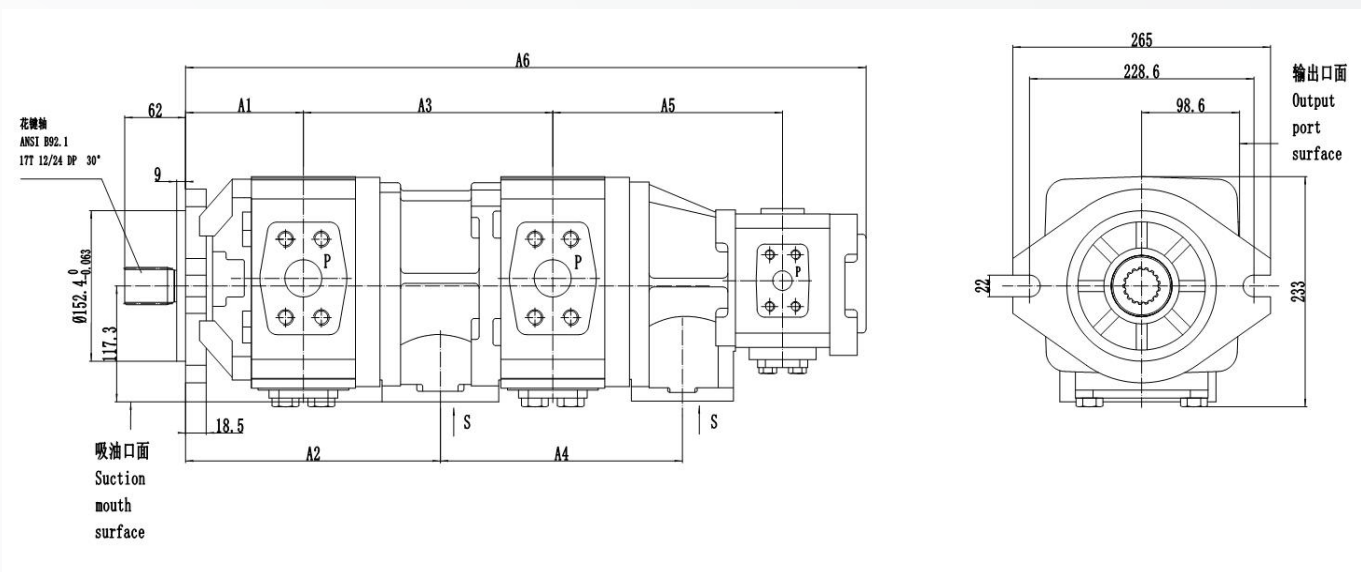
安装连接尺寸 Installation and connection size



备注：更多型号请详询弗斯特液压。
For more order models, please consult FOST HYDRAULIC

三联泵FG221-**-**-01R-VSC-D (S型花键轴)
Triplex pump FG221-**-**-01R-VSC-D (S-type spline shaft)

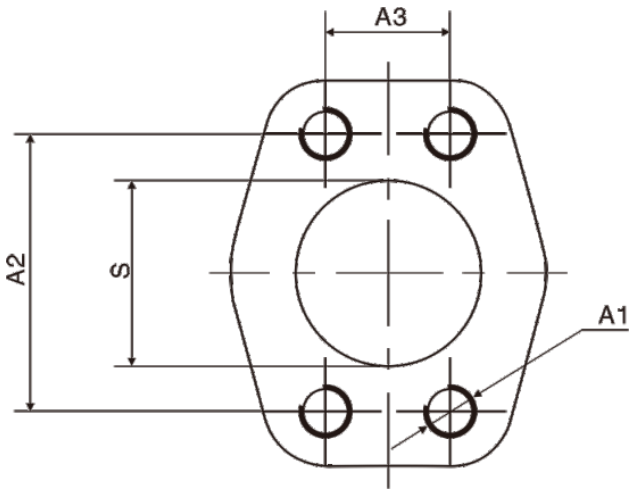
安装连接尺寸 Installation and connection size



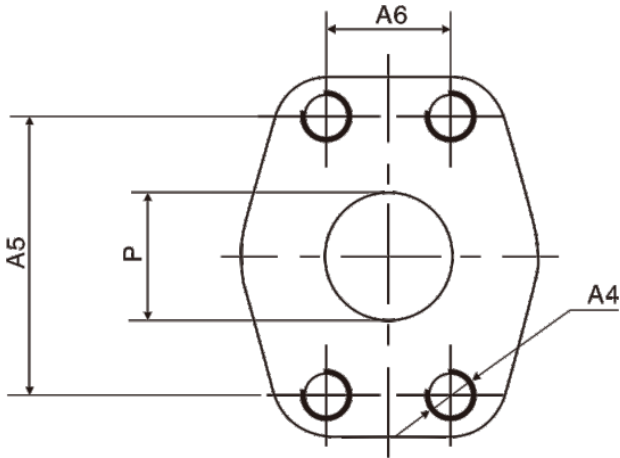
备注：更多型号请详询弗斯特液压。
For more order models, please consult FOST HYDRAULIC

油口法兰连接尺寸 Port flange connection size

吸入口 “S” Suction port "S"



输出口 “P” Output port "P"



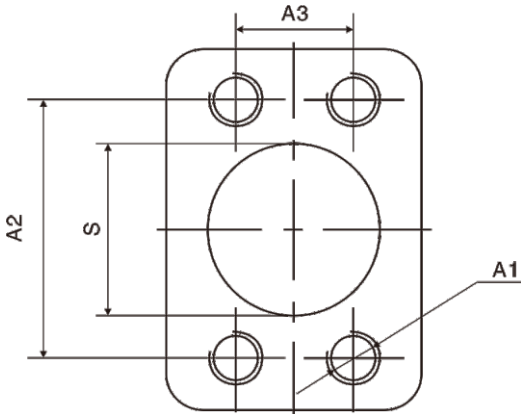
尺寸参数 Dimension parameters

系列 Series	规格 Specification	S	A1	A2	A3	P	A4	A5	A6
FG0	04	ø14	M8深13	38.1	17.5	ø14	M8深13	38.1	17.5
	05	ø14	M8深13	38.1	17.5	ø14	M8深13	38.1	17.5
	08	ø20	M10深15	47.6	22.2	ø13	M8深13	38.1	17.5
	10	ø20	M10深15	52.4	26.2	ø13	M8深13	38.1	17.5
	13	ø20	M10深15	52.4	26.2	ø13	M8深13	38.1	17.5
	16	ø20	M10深15	52.4	26.2	ø13	M8深13	38.1	17.5
	20	ø26	M10深15	58.7	30.2	ø20	M10深15	47.6	22.2
FG1	25	ø28	M10深15	58.7	30.2	ø20	M10深15	47.6	22.2
	20	ø25	M10深18	52.4	26.2	ø19	M10深18	50.8	23.8
	25	ø32	M10深19	58.7	30.2	ø18	M10深17	47.6	22.2
	32	ø32	M10深19	58.7	30.2	ø18	M10深17	47.6	22.2
	40	ø32	M10深19	58.7	30.2	ø20	M10深17	52.4	26.2
	50	ø32	M10深19	58.7	30.2	ø20	M10深17	52.4	26.2
	63	ø32	M10深19	58.7	30.2	ø20	M10深17	52.4	26.2
FSG1 (High-speed type)	20	ø25	M10深18	52.4	26.2	ø19	M10深18	50.8	23.8
	25	ø32	M10深19	58.7	30.2	ø18	M10深17	47.6	22.2
	32	ø32	M10深19	58.7	30.2	ø18	M10深17	47.6	22.2
	40	ø38	M12深21	69.9	35.7	ø20	M10深17	52.4	26.2
	50	ø51	M12深21	77.8	42.9	ø25.4	M12深21	57.2	27.8
	63	ø51	M12深21	77.8	42.9	ø32	M12深21	66.6	31.8
FG2	63	ø51	M12深23	77.8	42.9	ø32	M12深21	66.6	31.8
	70	ø51	M12深23	77.8	42.9	ø32	M12深21	69.9	35.7
	80	ø51	M12深23	77.8	42.9	ø32	M12深21	69.9	35.7
	90	ø51	M12深23	77.8	42.9	ø32	M12深21	69.9	35.7
	100	ø51	M12深23	77.8	42.9	ø32	M12深21	69.9	35.7
	115	ø64	M12深23	88.9	50.8	ø38	M16深25	79.4	36.5
	125	ø64	M12深23	88.9	50.8	ø38	M16深25	79.4	36.5
	145	ø64	M12深23	88.9	50.8	ø38	M16深25	79.4	36.5
	160	ø76	M16深30	106.4	61.9	ø38	M16深25	79.4	36.5
FSG2 (High-speed type)	63	ø51	M12深23	77.8	42.9	ø32	M12深21	66.6	31.8
	70	ø51	M12深23	77.8	42.9	ø32	M12深21	69.9	35.7
	80	ø51	M12深23	77.8	42.9	ø32	M12深21	69.9	35.7
	90	ø51	M12深23	77.8	42.9	ø32	M12深21	69.9	35.7
	100	ø64	M12深23	88.9	50.8	ø32	M12深21	69.9	35.7
	115	ø64	M12深23	88.9	50.8	ø38	M16深25	79.4	36.5
	125	ø64	M12深23	88.9	50.8	ø38	M16深25	79.4	36.5
	145	ø76	M16深30	106.4	61.9	ø38	M16深25	79.4	36.5
	160	ø76	M16深30	106.4	61.9	ø38	M16深25	79.4	36.5

油口法兰连接尺寸

Port flange connection size

双联泵吸入口 “S” Double pump suction port "S"



系列 Series	S	A1	A2	A3
FG00	Φ 32	M10通孔	58.7	30.2
FG10	Φ 38	M12深20	69.9	35.7
FG11	Φ 51	M12深20	77.8	42.9
FG21	Φ 76	M16深25	106.4	61.9
FG22	Φ 89	M16深25	120.7	69.9

使用注意事项

Precautions for use

以下情况，必须排出吸油配管的空气。

- 油泵的初始运行
- 液压油交换后
- 空气过滤器清扫后

首先，确认油箱是否已注入液压油，出口管路的安全阀是否打开。
接着，建议按照以下顺序来进行作业。

a) 进油口在油箱里无负压的情况时

- 取下配管法兰，用手转动油泵主轴，给油泵内部加满液压油。
- 再次去下配管法兰
- 进行点动操作
- 用最高转速进行无负载运行5分钟以上，对空气的排除做最终确认。

b) 进油口在油箱里有负压的情况时

- 打开排油管路的一部分、用手转动油泵主轴，确认打开部分油管是否有液压油流出。
- 关闭打开部分的排油管路。
- 进行点动操作。
- 用最高转速进行无负载运行5分钟以上，对空气的排除做最终确认。
- 推荐用以下方法进行点动操作。
- 无负载情况下，电机间断运行5~10次。
- 间断运行时，马达的运转时间为0.5~1秒。
- 如使用转速可变的电机时，请把转速设定为600rpm以上。

In the following cases, the air from the oil suction piping must be discharged.

- Initial operation of oil pump
- After hydraulic oil exchange
- After the air filter is cleaned

First, confirm whether the oil tank has been injected with hydraulic oil and whether the safety valve of the outlet line is opened.
Next, it is recommended that you proceed in the following order.

a) When there is no negative pressure at the oil inlet in the tank

- Remove the pipe flange, turn the oil pump spindle by hand, and fill the oil pump with hydraulic oil.
- Lower the piping flange again
- Perform the click operation
- No load operation at the highest speed for more than 5 minutes, to make final confirmation of air exclusion.

b) When there is negative pressure at the oil inlet in the tank

- Open a part of the oil discharge line, turn the oil pump spindle by hand, and confirm whether there is hydraulic oil flowing out of the open part of the oil pipe.
- Close the open part of the oil drain line.
- Perform the click operation.
- No load operation at the highest speed for more than 5 minutes, to make final confirmation of air exclusion. The following methods are recommended for point-and-click operations.
- The motor runs 5~10 times without load.
- During intermittent operation, the running time of the motor is 0.5 to 1 second.
- If using a motor with variable speed, please set the speed above 600rpm.

试运行

Test run

油泵的初始运转结束后，请注意以下几点，进行试运行。

- a) 对液压回路的压力做阶段式升压。推荐按以下方式进行升压。
- 对使用压力按100%来划分、请按压力50/70/90/100%各阶段分别做5分钟的阶段式升压。
 - 设定好上升压力后、实行加载/卸载的短时间操作。（请参照图表）
- b) 在液压回路压力上升的情况时，请注意油泵的工作的异响是否有空气混入。
- 当使用大的蓄能器时，在试运行时可能会产生从蓄能器里的空气回流到油箱里面。
 - 当有大量的空气回流到油箱时，请等油箱里的气泡消失掉，再开始试运行。

After the initial operation of the oil pump is over, please pay attention to the following points for trial operation.

- a) Step up the pressure of the hydraulic circuit. The following methods are recommended to boost the pressure.
- For the use of pressure according to 100% division, please according to the pressure 50/70/90/100% stage to do 5 minutes of stage pressure.
 - After setting the rising pressure, perform a short loading/unloading operation. (Please refer to chart)
- b) When the pressure of the hydraulic circuit rises, please pay attention to whether the abnormal sound of the oil pump is mixed with air.
- When using a large accumulator, air from the accumulator may flow back into the tank during the test run.
 - When there is a large amount of air back to the tank, please wait for the gas bubble in the tank to disappear before starting the test run.

