MONO SPIRAL PUMP

JN-SLF TYPE



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Application: Medium viscosity, high viscosity, containing granules, in poor flowing ability liquid.

Jin Nong Mono Spiral Pump Application

FOOD STUFFS

Jams, chocolate, syrups, sauces, tomato ketchup, batters, stews, sausage meats, eggs, fats, gelatin, soup, liquid sugar, molasses, honey, vinegar, preserves, soya sauce, peanut butter, jelly, chutney, mincemeat, olive oil, palm oil, chicken paste, coconut oil, cod oil, ketchup, maple syrup, marmalade, salad dressing, flavoring, pulp.

DAIRY PRODUCTS

Milk, curdled milk, yogurt, whey, cheese, curd, butter, margarine, oils, creams, cheese whey, mousse, custard cream cheese, pudding.

Beverages

Beer, wines, alcohol, syrups, yeast, wort, spirits, juices, cordials, minerals, tea, water, coffee liquor, cordials, cranberry juice.

PAPER & CHEMICALS

Acids, alkaline, soaps, paints, dyes, lacquers, resins, lubricants, solvents, black liquors, adhesives, latex, waxes, coatings, pastes, nail polish, mascara

PHARMACEUTICALS

Cream, gels, serums, disinfectants, lotions, shampoos, perfumes, soaps, toothpaste, vaccines, Vaseline, antibiotics, glucose, lodine ointment, perfumes.

Г	Theoretic	al Pump	p-Out	
Model	SLF-200	SLF-300	SLF-400	SLF-500
Granularity (mm)	10	15	18	22
Theoretical pump-out (cc/1R)	115.4	423.6	666	1017.3

JIN NONG MONO SPIRAL PUMP FEATURES

- * To deliver semi-solid, low water containment, high density and high viscosity liquid.
- * 3-sectional universal joint allows better flexibility.
- * To deliver liquid containing air bubbles, granules, solids, and fibers.
- * The flow volume could be widely controlled.
- * With high pressure, with super self-sucking.
- * Purging with water, easy disassembly for flushing.
- * Cylinder type of shaft connection, free of risks of broken pins.
- * Precision ceramic used for shaft seal.

JN-SLF TYPE DIMENSIONS





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Model	Α	В	С	D	Е	F	G	н	ØdxN		L	Q	ØU	R	Т	S	KG
SLF-200	940	697	114	Ø25 x W8	45	110	145	105	11x4	20.5x2	73x3	21x2	9	75x2	175	106	33
SLF-300	1213	898	150	Ø30 x W10	60	150	180	125	11x4	23x2	90x3	21x2	9	75x2	234	106	67
				Ø35 x W10						23x2	66x4	19x2	10	88x2	228	134	81
SLF-500	1570	1168	196	Ø40 x W12	75	220	260	160	13x4	23x2	70x5	22x2	10	94x2	305	146	108



JIN NONG MONO PUMP INTERIOR WEAVE



NO.	Name	Materials	No.	Name	Materials
1	Rotor	SUS #304	6	Bearing	SUJ2
2	Stator	SILICONE, VITON NBR	7	Outlet	SUS #304, FC20
3	Connector	SUS #304	8	Inlet	SUS #304, FC20
4	Connect Rod SUS #304		9	Shafting	SUS #304
5	Sealing	Precision Ceramic	10	Bearing Seat	FC20

Jin Nong Mono Pump Features



1.Taiwan

Patent No: 105163, 111543, 119310. U.S.A. Patent No: 5562360 Germany Patent No: 29605905.6

- Cylinder type of shaft connection, free of risks of broken pins.
- 3.3-sectional universal joint allow better flexibility.
- 4. Precision ceramic used for shaft seal.
- 5.Stainless steel material, allowing health rated.
- Purging with water, easy disassembly for flushing.



JN-SLF TYPE EXAMPLES



Conveying liquid into the larger capacity



Bean Paste Conveyed



Conveying liquid from the capacity to the packing machine



Conveying for muddy brick, sand pulp





Suction Flange Position
 Straight up
 Right (Facing Pump from discharge flange
 Straight down
 Left (facing pump from discharge flane)

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JN-SLF TYPE EXAMPLES





▲Allowing direct pump from the storage tank for volumetric filling.



▲ Allowing dual-liquid application



▲ High viscosity, High Density Liquid conveyance.





HOW TO USE JIN NONG MONO SPIRAL PUMP?

A MAKE UP

- 1 Cleaning up the interior of the pipe from the tank to the mono spiral pump inlet.
- 2 Set the mono spiral pump on the base plate, so that the mono spiral pump can be used normally.
- 3 From the tank to the mono spiral pump inlet and the mono spiral pump outlet should be connected tightly.

B START

1. Before starting the power, you should open the inlet and outlet.

2. UNLOAD ROTATION PROHIBITED.

- 3. It is hard to start to convey when you open the power at the first time. The stator and the rotor are new. You can wash the stator with water, that you can start the mono spiral pump easily.
- 4. After starting, should be pay attention that the turning is right.
- 5. When it is conveying, should be pay attention that the conveying liquid is full.

C CLEAN

If you do not want to wash the mono spiral pump after using the mono spiral pump, you can fill the mono spiral pump with water, and then open the power. It will clean the interior itself.

HOW TO SOLVE THE ERROR ?

- 1 Why the conveying amount is getting less and less ?
 - a. The stator and the rotor are damaged.
 - b. There is something at the inlet conveying pipe.
 - c. The viscosity liquid was dried in the packing case.
 - d. The conveying liquid is constructive above the packing case.
- 2 The conveying liquid is constructive :
 - a. Make the mixer to disturb the liquid.
 - b. Change the larger type, the inlet is bigger and the speed is more slowly.
- 3 The liquid is low flowing ability, high viscosity, low water containness, should use the big inlet mono pump.
- 4 Make a net above the inlet, so that the hard things will not be in the mono pump, and make the mono pump broken.
- 5 When it is conveying you can heard the water flowing :

It shows the liquid flowing speed is slower than the mono pump sucking speed.

- a. Check the inlet there is something above it.
- b. The density or the viscosity of the liquid is changed.
- 6 JN-TOA-100 type conveying amount is less and less or stop conveying :
 - a. The pump above the label, using for sucking or conveying :
 - the sealing, the rotor, and the stator are damaged.
 - b. The pump below the tank, using for conveying :
 - the rotor and the stator are damaged.
- 7 It shows the sealing is damaged :
 - a. Liquid is flowing from the sealing seat. (JN-TOA-100)
 - b. Liquid is flowing from the motor seat. (JN-T, JN-TOA-100)
- 8 Why the sealing can not work :

The pressure from the tank is higher than the mono pump can be suffered, discount the pressure from the tank.

9 Why the stator pipe is leaking liquid :

Take of the stator, put the gasket horizontal with the stator, then compose the mono pump and you can use it.





