



*One Solution
for all Industries*

JIG SERIES

Intenal Gear Pump



SHIVAM ENTERPRISE

Web : www.jiksanpumps.com

Email : info@jiksanpumps.com



FUEL INJECTION INTERNAL GEAR PUMP



The INTERNAL GEAR pumps are based on the proven rotary trochoidal design - gerotor principle. The pumps are designed to meet specific demands of OEM's. The reliable performance of the JIG series makes them an ideal choice for various industrial applications.

SPECIAL EXECUTIONS

- Specially coated internals for pumping of non-lubricating liquids.
- Engineering plastics rotor set for chemicals & low viscosity fluids
- Specially designed pumps for vacuum duty applications
- Uni-directional

ADVANTAGES OF INTERNAL GEAR PUMPS

- Single shaft – well supported at both ends
- High suction lift and low noise level as well as vibrations
- High volumetric and overall efficiency
- Continuous, pulsation free flow due to axial entry in pumping element
- Compact and light – weight design
- Ease of assembling and dismantling without disturbing the pipeline.
- Choice of oil seal / Mechanical seal / gland pack.
- Parts / Pumps interchangeable with well known brands.

TYPICAL APPLICATION

- Transfer from tank to tank
- Emptying of barrels
- Lubricating and cooling of bearings, gears, Mechanical seals and machine tools
- Fuel oil booster

LIQUIDS HANDLED

- Fuel oil
- Lube Oil
- Neutral liquids with lubricating properties

APPLICATIONS

- Filter pumping
- Pressure and transfer pump
- Pump for PHF units
- Pump for force feed lubrication
- Booster pump for diesel locomotive
- Oil burner
- Hydraulic drive and pressure pump – for gas oil, medium. Heavy and very heavy oil
- Transformers
- Boilers
- Vegetable oil processing
- Furnaces
- Suitable for LDO, FO, HSD & LSHS

PERFORMANCE TABLE (JIG series)

Model	INLET OUTLET SIZES	CAPACITY IN LPH	SPEED RPM	RECOMMENDED MOTOR HP		
				5 kg/Cm ²	15 kg/Cm ²	30 kg/Cm ²
JIG-150	½" X ½" BSP	150	1440	0.25 HP	0.75 HP	1.5 HP
JIG-300		300		0.25 HP	0.75 HP	1.5 HP
JIG-450		450		0.50 HP	1 HP	2 HP
JIG-600		600		0.50 HP	1 HP	2 HP
JIG-1000	¾" X ¾" BSP	1000		0.75 HP	2 HP	3 HP
JIG-1500		1500		0.75 HP	2 HP	3 HP
JIG-2000		2000		1 HP	3 HP	5 HP
JIG-2500		2500		1 HP	3 HP	5 HP

MATERIAL OF CONSTRUCTION

Pump Body : C.I. GR 25

Eccentric Cover : C.I. GR 25

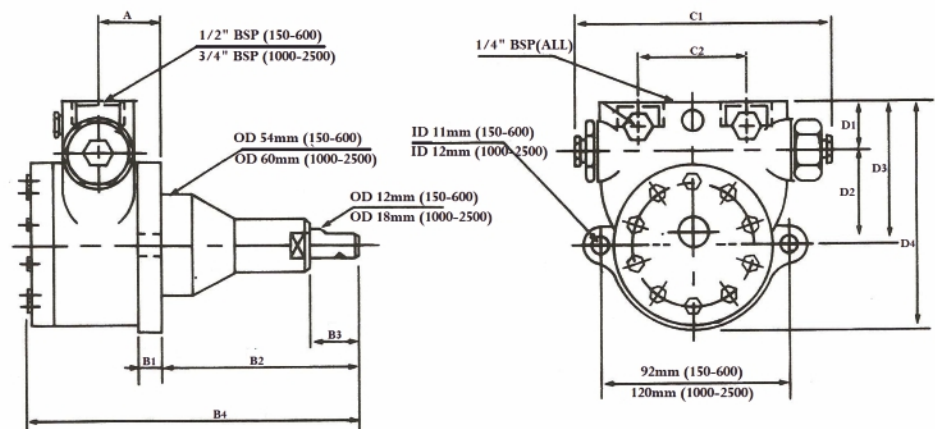
Mechanical Seal Housing : MS

Shafted Rotor : EN-31 H & G

Idler Gear : EN-31 H & G

Wear Plate : PH-BRONZE

- Normal flow at 1440 or 2880 RPM with oil viscosity 32 CST at 37.5°C at normal working temperature and 10 kg/cm² pressure
- Higher or lower pressure on request.
- Direction of rotation as viewed from shaft end.
- L - anti clockwise
- R – clockwise



DIMENSIONAL DRAWING DETAILS

Model	Flow in L/H		A	B1	B2	B3	B4	C1	C2	D1	D2	D3	D4
	1400 RPM	2880 RPM											
JIG	150-600	300-900	30	13	77	25	146	139	44	27	48	75	115
JIG	1000-2500	---	39	15	124	29	211	162	67	35	55	90	140

Note:- All dimensions are in millimeters. Unless otherwise stated specification are subject to change without prior notice as improvements are made from time to time.

SHIVAM
ENTERPRISE

Mo : +91 95370 41188

16, Banker Estate, B/h. Bharat Party Plot, Rabari Colony,
N.H.No. 8, Amraiwadi, Ahmedabad-380026.

Email : sales@jiksantpumps.com

Web : www.jiksantpumps.com

Distributor :



*One Solution
for all Industries*

JRG SERIES

External Gear Pump



SHIVAM ENTERPRISE

Web : www.jiksanpumps.com

Email : info@jiksanpumps.com



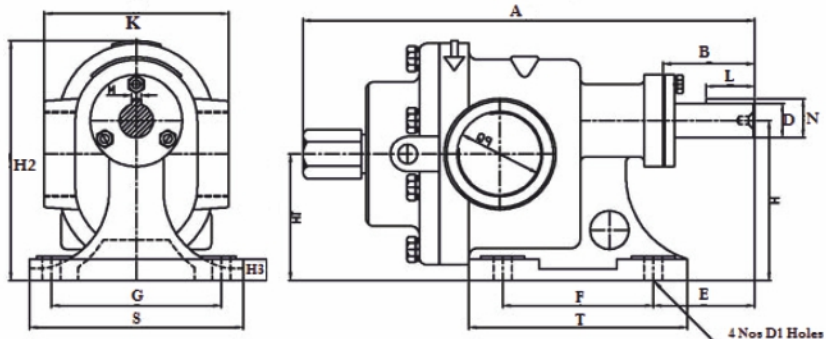
ADVANCED TECHNOLOGY FOR PUMPING VISCOUS LIQUID



Under brand name of "JIKSAN" our "JRG" Series Positive displacement external Rotary Gear Pumps are most efficient and economic range with variety of materials, which has special features and easy to maintain. The pumps are ideal for handling of Oils and Viscous liquids like all kinds of fuel Oils, Mineral oil, Lubricating Oils, Fish & animal Oils, Vegetable Oils, Tar, Asphalt, Sugar Syrups, Molasses, Starch, Inks, Paints, Color, varnishes And Viscous Chemicals Etc.

PERFORMANCE TABLE (JRG series)

PUMP MODEL	Suction & Delivery (Screw End)	Capacity At 1440 rpm			Recommended Motor BHP At Differential Pressure / Head Kg/Cm² With 1500 SSU Viscosity											Wt. Of Bare Pump In Kg. (Approx.)
		LPM	US GPM	M³/ HR	kg/ cm²	1	2	3	4	5	6	7	8	9	10	
					Meter	10	20	30	40	50	60	70	80	90	100	
JRG - 50	½" x ½"	20	5.3	1.2	KW	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	2.6
					HP	0.5			0.75			1.0				
JRG - 75	¾" x ¾"	30	7.92	1.8	KW	0.37	0.45	0.54	0.62	0.69	0.77	0.85	0.92	1.01	1.09	4.6
					HP	0.75			1.0			1.5				
JRG - 100	1" x 1"	50	13.2	3.0	KW	0.40	0.50	0.60	0.75	0.89	1.04	1.17	1.3	1.46	1.59	6.0
					HP	1.0			1.5			2.0				
JRG - 125	1 ¼" x 1 ¼"	75	19.8	4.5	KW	0.7	1.0	1.2	1.4	1.5	1.9	1.95	2.15	2.35	2.55	7.6
					HP	1.5			2.0			3.0				
JRG - 150	1½" x 1 ½"	110	29.0	6.6	KW	1.05	1.45	1.95	2.10	2.40	2.65	2.95	3.25	3.60	3.75	10.5
					HP	2.0			3.0			5.0				
JRG - 200	2" x 2"	225	59.4	13.5	KW	2.0	2.5	3.2	3.75	4.3	4.45	5.6	6.2	6.9	7.11	19.0
					HP	3.0			5.0			7.5				
JRG - 250	2 ½" x 2 ½"	350	92.4	21.0	KW	4.15	5.2	6.1	7.3	8.2	9.1	10.3	11.2	12.1	12.25	31.0
					HP	5.0			10.0			12.5				
JRG - 300	3" x 3"	500	131.6	30.0	KW	4.5	6.6	8.4	9.9	11.1	12.1	13.0	13.9	14.9	15.9	38.5
					HP	10			15			20				



MATERIAL OF CONSTRUCTION STANDARD/(OPTIONAL)

Pump Body : IS 210 FG220 C.I. GRADED / (M.S., S.S., BRONZE)
 Front Cover : C.I. GRADED / (EN-24,36,S.S.)
 Back Cover : C.I. GRADED / (EN-24,36,S.S.)
 Seal : NEOPRENE / (TEFLON,MECH,VITON)
 Gears : EN-8 HELICAL / (EN-24,36,S.S.)
 Shaft : EN-19 / (EN-24,36,S.S.)
 Bush Bearing : BRONZE / (PTFE)
 Mounting Bracket : C.I. Gr-20 IS 210
 Pressure Relief Valve will be provided in all Models.

MODEL	A	B	E	F	G	S	T	H	H1	H2	H3	L	M	N	ØD	ØD1	K	PQ
JRG - 50	172	46	51	40	70	90	70	63	50	90	6	22	4	13.5	12	8	70	½" BSP
JRG - 75	216	54	63.5	45	85	110	80	80	66	115	8	25	5	16.0	14	10	90	¾" BSP
JRG - 100	236	64	64.5	50	93	125	95	90	73	128	8	27.5	5	19.5	17	10	86	1" BSP
JRG - 125	266	70	65	60	105	140	110	100	79	140	10	32	6	22.5	20	12	100	1 ¼" BSP
JRG - 150	290	75	80	70	115	150	130	110	88	155	12	35	6	24.5	22	12	108	1 ½" BSP
JRG - 200	360	98	92	100	140	180	160	132	105	192	15	40	8	28	25	15	142	2" BSP
JRG - 250	420	110	110	120	155	200	185	145	114	215	18	45	8	31	28	15	160	2 ½" BSP
JRG - 300	457	100	105	155	175	220	225	165	130.5	241	20	50	10	35	32	15	190	3" BSP

Note : All dimensions are in millimeters. Unless otherwise stated specification are subject to change without prior notice as improvements are made from time to time.

**SHIVAM
ENTERPRISE**

Mo : +91 95370 41188

16, Banker Estate, B/h. Bharat Party Plot, Rabari Colony,
 N.H.No. 8, Amraiwadi, Ahmedabad-380026.

Email : sales@jiksantpumps.com

Web : www.jiksantpumps.com

Distributor :



*One Solution
for all Industries*

JRG SS SERIES

External Gear Pump



SHIVAM ENTERPRISE

Web : www.jiksanpumps.com

Email : info@jiksanpumps.com



ADVANCED TECHNOLOGY FOR PUMPING VISCOUS LIQUID

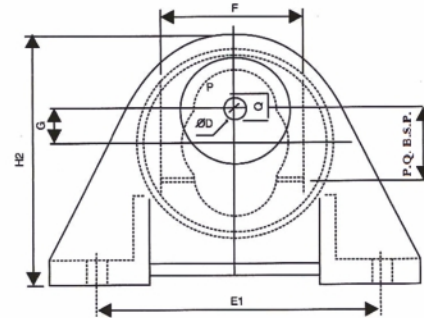
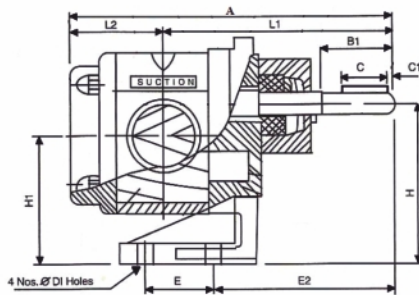


For Handling Of Corrosive, Hygienic, Abrasive Viscous Liquid To Transfer, Loading-Unloading & Pressuring Application.

Under "JIKSAN" brand name JRG-SS series external gear pumps are self priming bi-directional, positive displacement rotary pump in all stainless steel (SS-316) construction with dry lubrication PTFE coated DU bush bearing. These pumps are easy cleanable, easy maintainable in 3- piece construction. The back cover can simply be removed 4-dom nut. The right angle mounting brackets facilitates foot mounting of the pump on base plate with electric motor of appropriate ratings.

MATERIAL OF CONSTRUCTION :

• Pump Body : CF8M (S.S.316)	• Gears : AISI S.S.316	• Dom Nut / Ln Bolt : AISI S.S. 316
• Front Cover : CF8M (S.S.316)	• Shaft : AISI S.S.316	• Sealing : "Z" Pack Teflon
• Back Cover : CF8M (S.S.316)	• Bush Bearing : PTFE coated 'DU'	• Packing : Teflon Sheet
• Seal Cover : CF8M (S.S.316)	• Mounting Bracket : C.I. Gr.-20 IS 210	• Key For Coupling : AISI S.S. 316



PERFORMANCE TABLE (JRG SS series)

PUMP MODEL JRG-SS	Suction & Delivery (Screw End)	CAPACITY at 1440 RPM			POWER REQ.			PUMP DIMENSION														WT. OF PUMP IN KG. APROX
					NO LOAD VISCOUS HP. At		Unit HP. Per Kg. Press	OVER ALL					MOUNTING & SHAFT									
		LPM	US GPM	M³/hr	200 CST	500 CST		A	F G	H2	L1	L2	E	E1	E2	H	H1	D D1	C C1	P Q	B1	
25	¼" X ¼"								54									11.5	17	4		
		8.33	2.2	0.50	0.20	0.25	0.02	129	12.5	101	94	35	40	120	82	63	50.5	8	3	13	25	2.50
40	⅜" X ⅜"	16.66	4.4	1.00	0.35	0.40	0.04	134	61	112	98	36	50	120	88	71	57	11.5	17	4	25	3.50
50	½" X ½"	25.00	6.6	1.50	0.40	0.50	0.06	146	14	112	103	41	50	120	88	71	57	8	3	13	25	4.50
75	¾" X ¾"	33.33	8.8	2.00	0.45	0.55	0.085	160	72.5	128	123	46	55	140	92	90	73	14	25	5	35	6.50
100	1" X 1"	50.00	13.2	3.00	0.50	0.60	0.13	177	17	128	115	52	55	140	92	90	73	10.5	3	16	35	7.50
125	1 ¼" X 1 ¼"	100	26.4	6.00	0.65	0.85	0.28	210	90	149	143	66	50	155	111	100	79	18	30	6	38	8.50
150	1 ½" X 1 ½"	125	33.0	7.50	0.75	0.95	0.35	225	21	149	151	73	50	155	111	100	79	12	3	20.5	38	11.90
200	2" X 2"	150	39.6	9.00	0.90	1.15	0.45	251	103	167	162	85	70	190	131	112	87	24	30	8	40	20.50
200		200	52.8	12.00	1.00	1.25	0.60	281	25	167	179	97	70	190	131	112	87	14	5	27	40	24.00
250	2 ½" X 2 ½"	250	65.0	15.00	1.20	1.40	0.65	299	122	197	206	93	85	200	161	132	102	28	40	8	50	35.00
250		300	80.0	18.00	1.40	1.65	0.77	319	30	197	218	101	85	200	161	132	102	16	5	32	50	40.00

Note:- All dimensions are in millimeters. Unless otherwise stated specification are subject to change without prior notice as improvements are made from time to time.

SPECIAL NOTE :

For calculating the power requirement at duty point, multiply the duty point pressure with unit horse power & add no load viscous power of appropriate viscosity. Provide safety margin before fixing the rating of the pri-mover. For high viscosity further marging may be kept or the manufacturer may be consulted. All sizes of JRG-SS pumps are designed to run at 1400 RPM up to viscosity of 500 CST, for small size pump up to 1" can be safely run at 1440 RPM even at higher viscosity up to 1000 CST with additional horse power. For sizes above 1" reduce the speed to 960 RPM for viscosity up to 1000 CST. For higher viscous liquid consult the manufacturer to avoid cavitation & over loading problem.

APPLICATIONS :

• This compact and efficient S.S. pump find various application for handling viscous food products like 1. Ghee 2. Butter 3. Fruit pulp 4. vegetable souse, kanji etc. • They are also used on pharmaceutical industries for handling 1. sugar solution, 2. glycerin, 3. glycol etc. • In chemical industries corrosive viscous chemicals can easy be handled with this pump most effectively.

**SHIVAM
ENTERPRISE**

Mo : +91 95370 41188

16, Banker Estate, B/h. Bharat Party Plot, Rabari Colony,
N.H.No. 8, Amraiwadi, Ahmedabad-380026.

Email : sales@jiksantpumps.com

Web : www.jiksantpumps.com

Distributor :

SERIES



For all

Viscous & Semi Viscous

liquid application

ROTARY GEAR PUMPS

SHIVAM ENTERPRISE

Web : www.jiksanpumps.com

Email : info@jiksanpumps.com



JRG



JRN/JRB



JRG-SS



JIG



JRMS/JRM



JRX



JRMP



JBX/JNX

ROTARY GEAR PUMPS SERIES



SERIES : JRG

This series contains general purpose foot mounted pumps with female threading at inlet & outlet ports. **Material Of Construction** **Pump Body** : Graded CI Casting. **Gears** : Alloy Steel - Single Helical. **Shaft** : Alloy Steel - Hardened & ground. **Bush** : Self Lubricated Sintered Bronze Bushes. **Sealing** : Oil Seal. **Size** : ¼" to 3" BSP (9 different sizes) **Range** : 5 to 500 LPM. **Liquid** : All General Purpose Viscous Fluid like Lube oil, Paints, Edible oil, etc. The pump is made to provide sturdy design and construction to ensure long trouble free with best performance. Built-in-pressure Maximum working pressure is 10kg/cm².

SERIES : JRN/JRB

This series contains general purpose foot mounted pumps with flange mounting class 150# ASME / ANSI B16.5 at inlet & outlet ports. **Material Of Construction**. **Pump Body** : Graded CI Casting. **Gears** : Alloy Steel - Double Helical -H. Nitrided. **Shaft** : Alloy Steel - Case Hardened & ground **Bearings & Bushes** : Needle Roller bearing (JRN) / Bronze Bushes (JRB). **Sealing** : Oil Seal / Teflon base 'Z' pack. **Size** : ½" to 6" (8 different sizes). **Range** : 8.3 to 2080 LPM. **Liquid** : Crude oil, dirty oil, kerosene, LDO, HSD, Wood Pulp, Furnace oil etc. Viscosity up to 1,00,000 SSU. temperature up to 200 °C. In Built Pressure Relief Valve is provided to achieve maximum working pressure 10kg/cm².



SERIES : JRG-SS

This Series contains Special purpose foot mounted pumps with female threading at inlet & outlet ports. **Material Of Construction**. **Pump Body** : SS-316 (investment Casting). **Gears** : AISI - SS 316 (H. Nitrided) - Single Helical Gear. **Shaft** : AISI - SS 316 (H. Nitrided & Ground). **Bush** : Teflon coated imported 'DU' Bushes. **Sealing** : Teflon base 'Z' Pack. **Size** : ¼" to 2½" (6 different sizes) **Range** : 8 to 300 LPM. **Liquid** : All food Grade products like Ghee, Butter, etc., for pharmaceutical industries to handle Glycol, Glycerine etc. For chemical Industries to handle corrosive viscous chemicals. The Pump is Very versatile, compact, easy cleanable and operates maximum working Pressure- 10kg/cm².

SERIES : JIG

This series contains Fuel pressuring internal gear type foot mounted pumps with female threading at inlet & outlet ports. **Material of Construction** **Pump Body** : Graded CI Casting. **Shaft Rotor** : Alloy Steel - H. Nitrided & Ground. **Idler Gear** : Alloy Steel - H Nitrided. **Sealing** : Mechanical Sealing. **Size** : ½" to ¾" BSP **Range** : 60 to 2500 LPH. **Liquid** : Fuel oil boilers burners. In Built Pressure relief valve is provided & pump Operates up to maximum temperature 200 °C (Fuel) and maximum working pressure 35kg/cm².

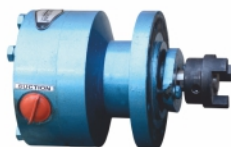


SERIES : JRMS/JRM

This Series Contains foot mounted Special purpose pumps having flange mounting class 150# ASME / ANSI B16.5 at inlet & outlet ports. **Material Of Construction**. **Pump Body** : SS-316 (JRMS) / Graded CI Casting (JRM), **Gears** : SS-316 Double Helical -H Nitrided (JRMS) / SS-316 Single Helical - H. Nitrided (JRM). **Shaft** : SS - 316 -H. Nitrided & Ground. **Bush** : Teflon coated imported 'DU' Bushes (JRMS) / Wear Plaste cum brush bronze (JRM), **Sealing** : Teflon base 'Z' pack. **Size** : ½" to 6" BSP. **Range** : 8.3 to 2080 LPM. **Liquid** : Liquids used in boilers & burners, Crude oil, Tar etc. JRMS Series contains in built pressure Relief valve. The pumps are used to handle corrosive, Thinner or thicker liquids having lesser lubricating value. The Maximum working pressure is 10kg/cm².

SERIES : JRX

This series contains foot mounted with 'L' bracket & Flange mounted general purpose pumps having female threading at inlet & outlet ports. **Material Of Construction**. **Pump Body** : Graded CI Casting. **Gears** : Alloy Steel - single Helical. **Shaft** : Alloy Steel - Hardened & Ground. **Bush** : Self Lubricated Sintered Bronze Bushes. **Sealing** : Oil Seal. **Size** : ¼" to 1" BSP (8 different sizes) **Range** : 2.5 to 50 LPM. **Liquid** : All General Purpose Viscous Fluid like Lube Oil, Paints, Transformer oil, LDO etc. The Maximum working pressure is 10kg/cm².



SERIES : JRMP

This series contains flange mounted and shaft mounted pumps having female threading at inlet & outlet ports. **Material of Construction**. **Pump Body** : Graded CI Casting. **Rotor** : Sintered CI Casting, **Shaft** : Alloy Steel. **Sealing** : Oil Seal. **Size** : ¼" to 1" BSP (8 different size) **Range** : 0.5 to 40 LPM at 1500 RPM (40 °C). **Liquid** : Lubricating Oil. The pumps are designed to transfer the lubricating oil with maximum working pressure is 10kg/cm².

SERIES : JBX/JNX

This series contains special purpose foot and flange mounted pumps with flange end at inlet & outlet ports. **Material Of Construction**. **Pump Body** : Graded CI Casting. **Gears** : Alloy Steel - double Helical - H. Nitrided. **Shaft** : Alloy Steel - Case Hardened & ground. **Bearings & Bushes** : Needle Roller bearing (JNX) / Bronze Bushes (JBX). **Sealing** : Oil Seal/Teflon base 'Z' pack. **Size** : ½" to 6" (10 different sizes). **Range** : 0.50 to 2080 LPM. **Liquid** : Crude oil, dirty oil, kerosene, LDO, HSD, Wood Pulp, Furnace oil etc. Viscosity up to 1,00,000 - SSU, temperature - up to 200 °C. In Built Pressure Relief valve is provided to achieve maximum working pressure-21kg/cm².



SHIVAM ENTERPRISE

Mo : +91 95370 41188

16, Banker Estate, B/h. Bharat Party Plot, Rabari Colony,
N.H.No. 8, Amraiwadi, Ahmedabad-380026.

Email : sales@jiksnpumps.com

Web : www.jiksnpumps.com

Distributor :