

A World Class Manufacture of  
Lubrication Products



# JYOTI ENTERPRISES

(ISO Certified 9001 : 2015)

Centralised Lubrication Systems  
for Oil and Grease

# COMPANY PROFILE

**JYOTI ENTERPRISES** - A brand known for its quality, designing, reliability and prompt service. It's a certified company based in Faridabad and has been manufacturing supplying and exporting technically advanced products in the field of lubrication and hydraulics. We satisfy the customer said and unsaid demands by providing :-

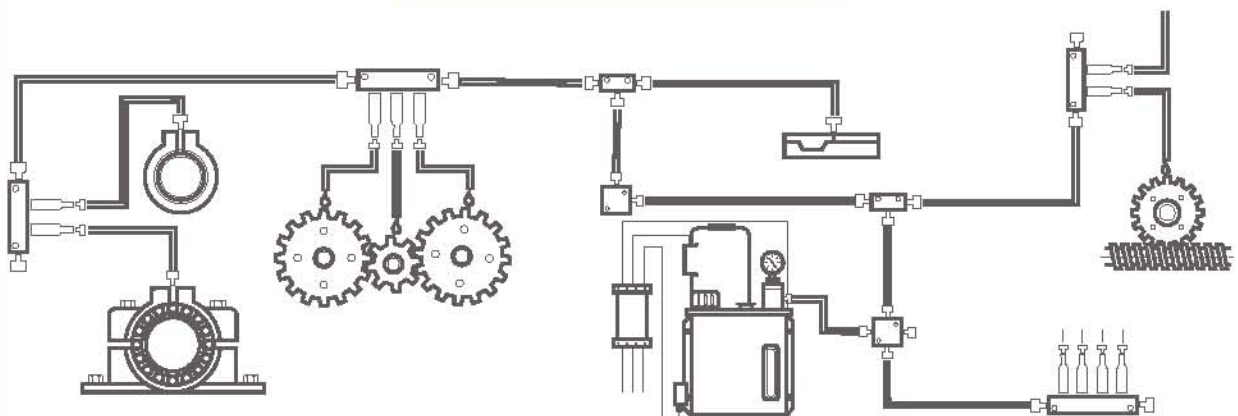
- More production
- Strict, quality checkup
- Testing facility
- Less wear and tear
- Optimum lubricant to each point
- Less power and lubricant consumption



## Centralised lubrication system can be adopted on any machine particularly:-

- Machine Tools
- Textile machines
- Packaging equipment
- Presses and Hammers
- Pulp & paper processing machines
- Food Processing equipment
- Wood working machine
- Knitting machine
- Pharmaceutical machines
- Stone processing machines
- Printing machine
- Injection/Blow moulding machine
- Pouch malcium/filling machine
- Bottle forming /filling washing machine
- Sheet metal working machine
- Shearing and prus brakes
- Die casting machine
- Rubber making machine
- Metal forms machine
- Calendering machine etc
- Cement plants
- Sugar plants

## INSTRUCTIONAL LAYOUT





## A World Class Manufacture of Lubrication Products

Jyoti Enterprises is India's leading manufacturer of centralised lubrication system. The factory is situated in the industrial area of Faridabad Town. The company is covered under ISO 9001-2015

The company was established in 2016 and since then the company has kept pace with the changing demands of customers, by amazing development & innovating new amazing concept, improving existing products. The company has achieved the target of sale by 10 times through developing amazing range of products, such as dual line system & OCS, which can compete any foreign product of this line.

It has always been a constant endeavour of Jyoti Enterprises to satisfy its customer with better and more advanced products in industrial segment. This could become a reality through the company's continuous research and development. Over the years, this practice has breathed life in to our products.

Jyoti Enterprises skilled team of technical engineers, understanding customer requirement enables it to work closely to solve individual problems and to supply customer desired lubrication system for any project.

The best value is also enhanced by Jyoti Enterprises wide customer service network guaranteed fast delivery, rapid response, local back-up, as well as by wide service network supporting the after sales service





## HAND OPERATED PISTON OIL PUMPS

Manually operated pump based on spring return piston type. The oil is injected to the lubrication points by these pumps under pressure. These pumps are provided with check valve at suction and relief valve to safe guard the pump from overloading.

### Technical Specification

MODLE	DISCHARGE	RESERVOIR
JE-H 250-4	4cc per stroke	0.25 Ltr.
JE-H 600-6	6cc per stroke	0.60 Ltr.
JE-H 1700-10	10cc per stroke	1.70 Ltr.
JE-HT 400-5	5cc per stroke	0.25 Ltr.
JE-HT 600-5	5cc per stroke	0.60 Ltr.
JE-HT 1000-10	10cc per stroke	1.00 Ltr.

NOTE : Not to use the pump without oil.



### Applicability

Mixing machines, small power presses, packing machines, milling machines, looms surface grinder pouch filling machines etc.

## MOTORISED LUBRICATION SYSTEMS

Single shot motorised lubrication system is an efficient and safe method in which required amount of oil is delivered to various lubrication point of a machine from one central source. It is a total loss system and does not require any return line for collection of oil. These motorised lubrication units are to be run intermittently by the use of ON/OFF TIMER and CONTROLLERS.

### Applicability

Machine tools, Textile machines, Die casting machines, Shearing and press brakes, Rubber mixing machines, Printing machines, Presses and hammer, Pharmaceuticals, food processing equipment etc.



### Technical Specifications

MODEL	Reservoir	Discharge	Motor Rpm1500 (syn)	Pressure Setting	Pressure Switch	Float Switch
JE-CLS-03	3 Ltrs.	1.0 LPM	0.10 Kw, 230V AC. Single Phase	12 kg/Cm <sup>2</sup>	(Optional) 24V/220 V. With 1 NO+1NC/NO or NC Contacts Pressure preset	(Optional) 24V/220 V. With NO or NC contacts
JE-CLS-2700 (Dx)	2.7 Ltrs.	1.0 LPM	0.10 Kw, 230V AC. Single Phase	12 kg/Cm <sup>2</sup>		
JE-CLU-2700 (Dx)	2.7 Ltrs.	1.0 LPM	0.12 Kw, 415V AC. 4Pole, 3 Phase	12 kg/Cm <sup>2</sup>		
JE-LU-03	3 Ltrs.	1.0 LPM	0.12 Kw, 415V AC. 4Pole, 3 Phase	12 kg/Cm <sup>2</sup>		
JE-LU-05	5 Ltrs.	1.0 LPM	0.18 Kw, 415V AC. 4Pole, 3 Phase	15 kg/Cm <sup>2</sup>		
JE-LU-08	8 Ltrs.	2.0 LPM	0.18 Kw, 415V AC. 4Pole, 3 Phase	15 kg/Cm <sup>2</sup>		
JE-LU-20	20 Ltrs.	3.0 LPM	0.18 Kw, 415V AC. 4Pole, 3 Phase.	20 kg/Cm <sup>2</sup>		
JE-LU-30	30 Ltrs.	4.0 LPM	0.37 Kw, 415V AC. 4Pole, 3 Phase.	20 kg/Cm <sup>2</sup>		

(Dx) Transparent reservoir

NOTE : All these unit suitable for oil with viscosity range 50-1000 cst. Unit with vertical float switch is also available on customer request.



## AIR OPERATED OIL PUMPS

These pumps are piston type pump and used for automatic lubrication with the help of hydraulic/ pneumatic power. These pumps are operated intermittently with the help of direction control valve and timer.

### Technical Specification

MODEL	DESCRIPTION
JE-Pn-600-6	The reservoir cap. is 0.6 Ltr. Discharge/stroke is 6cc. Input Pneumatic pressure is 4Kg / cm <sup>2</sup> . Output pressure setting is 15Kg / cm <sup>2</sup> .
JE-Pn-1700-10	The reservoir cap. is 1.7 Ltr. Discharge/stroke is 10cc. Input Pneumatic pressure is 4Kg / cm <sup>2</sup> . Output pressure setting is 15Kg / cm <sup>2</sup> .
JE-Pn-3000-10	The reservoir cap. is 3 Ltr. Discharge/stroke is 10cc. Input Pneumatic pressure is 4Kg / cm <sup>2</sup> . Output pressure setting is 15Kg / cm <sup>2</sup> .

NOTE : These pumps can be operated hydraulically also. Please consult for such application.



## ELECTRONIC TIMER & CONTROLLERS

### Electronic Controllers



The Electronic Timer & Controllers are used for automatic controlling of lubrication systems. There are different models used for different applications. Following models are under our regular production.

These are used in the lubrication systems where pressure switch/ float switch are provided for sensing the pressure load and low oil level. In the controllers signals for Pressure & Low oil level sensing are provided. ON time is 5 sec. Fixed and OFF Time is 2 to 240 min. Adjustable.

### Technical Specification

MODEL	DESCRIPTION
JE-EC-502 X W	(Panel mounting type.)

### Electronic Timer

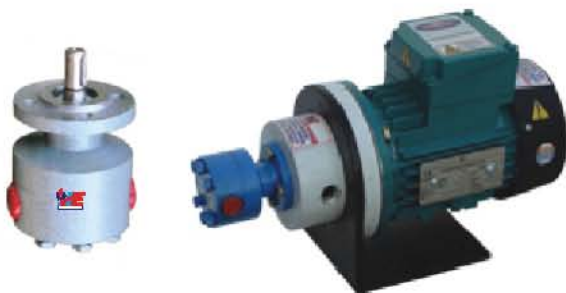


### Technical Specification

MODEL	DESCRIPTION	SPECIFICATIONS
JE-LT-110V/220V	A - Wall mounting type	ON time is fixed 5 sec. OFF time varies from 1 min. To 128 min.
JE-LT-240V/DC	A - Wall mounting type (Digital)	ON time 1 sec. time To 999 sec. OFF time 1 min. time To 999 min..
JE-LT-12V/DC	A - Wall mounting type	ON time 1 sec. time To 999 sec. OFF time 1 min. time To 999 min..

## ROTARY PUMPS (Flange or Insert Type) Reversible/Non Reversible

Rotary pumps are gerotor type pumps with positive displacement of oil. Applicable in machines which require low discharge, medium pressure of oil. These pumps are of two types: Reversible and non-reversible. Non-reversible pumps rotates only in one direction and reversible pumps rotated in either directions. (Clockwise and anticlockwise).



### Technical Specification

MODELS	DISCHARGE	MAX. PRESSURE
JE RP - 1	1 Litre per minute	20Kg/Cm <sup>2</sup>
JE RP - 3	3 Litres per minute	20Kg/Cm <sup>2</sup>
JE RP - 6	6 Litres per minute	20Kg/Cm <sup>2</sup>
JE RP -10	10 Litres per minute	20Kg/Cm <sup>2</sup>
JE RP -16	16 Litres per minute	20Kg/Cm <sup>2</sup>
JE RP -20	20 Litres per minute	20Kg/Cm <sup>2</sup>
JE RP -25	25 Litres per minute	20Kg/Cm <sup>2</sup>

NOTE : These pumps can be supplied with an electric motor also as per requirement.

**Applicability :-** Press tools, chemical, textile, pharmaceuticals, packing machines etc.



## MANUAL GREASE PUMP

This pump is meant for feeding of grease to bearings and other moving parts of machines either manually/ pneumatically. Grease is distributed to lubrication points by means of progressive blocks sequentially and these blocks are available in different models as per requirement.

### Technical Specification

MODEL	JE-MGP -1000 - 4	JE-MGP -1500 - 4
Reservoir Capacity	1 Kg.	1.5 Kg.
Discharge	4gms Per Stroke	4gms Per Stroke
Maximum Pressure	100 Kg. / Cm <sup>2</sup>	100 Kg / Cm <sup>2</sup>



## MULTILINE RADIAL LUBRICATOR

### APPLICATION

Multiline Radial Lubricator is best suited for machine /plant where lubrication is required with high pressure continuously / intermittently for individual point. This lubricator are used for machine / plant like rolling mill, sugar plant, cement plant, rubber mixing machine, forging hammer, stone crusher, sponge iron plant etc.

### CONSTRUCTION

This lubricator comprise of a single pumping station having a number of plunger pump placed radially and fitted on to the outer periphery of the housing. Each plunger unit is given a reciprocating motion with the help of a cam. The cam rotates with the help of an electric motor and speed reduction gear box. These all plunger pump are connected to the lubrication point directly / progressive block by mean of tube, rubber hose, compression type fitting, clamping etc. Do not plug out put of any pumping unit.

### FILLING OF LUBRICANTS

Grease filling in the reservoir can be done manually as well as with the help of other pump. For pump 1/4" BSP port is provided on reservoir.

### Technical Specifications

MODEL	JE-MRL-5-6	JE-MRL-15-10	JE-MRL-10-20
Reservoir Capacity in Kg.	5	15	30
No. of Outlets (Pump-Elements)	6	12	20
Motor 3Phase, 415V.AC, 4 Pole	0.25 HP	0.50 HP	1.00 HP
Delivery pressure	300kg/cm <sup>2</sup> maximum		
Dose of Pump / Cycle (Adjustable)	0.80cc / Stroke/ Pump		
Reduction Ratio of Drive	70 : 1		

However higher dose/capacity radial lubricators higher are also available on demand.

## AIR OPERATED PNEUMATIC GREASE PUMP

### APPLICATION

The pneumatic grease pump is suitable for dispensing of grease & automatic feeding of grease to bearing and other moving parts of machines. Such as milling machine, rolling machine, presses & hammers, rubber processing machine, dye casting machine, furnaces etc. This pump is suitable for grease upto NLG-2. For distribution we used progressive blocks through this pump.

### WORKING

Pneumatic grease pump are operated through pneumatic line, connected to the ports of pneumatic cylinder. The cylinder is built in with the pump housing. During on period of the pneumatic line a piston inside the cylinder is pushed ejecting out grease from the outlet port of the pump housing. During the reverse flow of pneumatic line grease is sucked through the suction port. In the pump spring force through follower plate exerted on the top surface of the grease make the suction of the grease positive & easier. Pneumatic pump is available in adjustable discharge & multiport with adjustable discharge in each port. Discharge & reservoir of pump is available as per requirement.



### Technical Specification

MODEL	Reservoir Cap.	Discharge/Stroke	Output Pressure	Input Pressure	Outlet Connection	Frequency
JE - PN GP - 1500-10	1.5 Kg. TR	10 gms (Adjustable)	120 Kg./Cm <sup>2</sup>	4 -7 Kg./Cm <sup>2</sup>	1/4" BSP	30 seconds
JE - PN GP - 3000-10	3 Kg. TR.	15 gms (Adjustable)	120 Kg./Cm <sup>2</sup>	4 -7 Kg./Cm <sup>2</sup>	1/4" BSP	30 seconds
JE - PN GP - 1000-4	500 gms	0.4 gms (Adjustable)	100 Kg./Cm <sup>2</sup>	4 -7 Kg./Cm <sup>2</sup>	1/4" BSP	30 seconds



# METERING CARTRIDGES FOR OIL & GREASE



These are valve which eject metered amount of oil to the each lubrication point. It requires recharging time of minimum 1 minute between two cycles. An individual oil distributor is required for individual lubrication point. In order to ensure that correct amount of lubrication point, oil distributor of correct dosage should be selected.

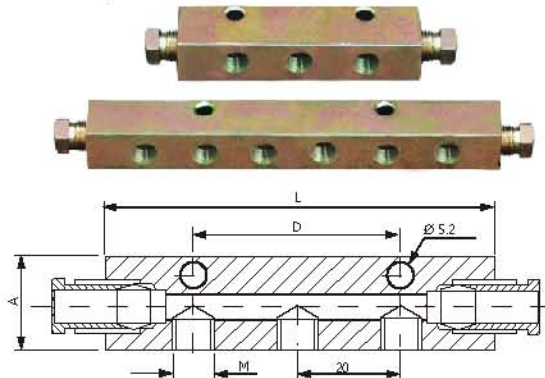
## Technical Specifications

<b>D-1</b>	Dosage 0.01cc, 0.03 cc, 0.05 cc, 0.10 cc, 0.16 cc per stroke.
<b>D-2</b>	Dosage 0.25 cc, 0.40 cc per stroke.
<b>D-3</b>	Dosage 1.0 cc, 1.60 cc, Per stroke

**Note :** We are manufacturing injectors in both BRASS and M.S.

# MANIFOLDS

Manifold are required for mounting of metering cartridge. These having two ports of 6mm OD tube and few side outlets metering cartridge are screwed directly on side outlets of manifolds.



MODEL	L mm	A mm	Thickness mm	M mm	D mm	Mounting Holes
M-1	35	18	15	M8X1	-	1
M-2	55	18	15	M8X1	-	1
M-3	75	18	15	M8X1	40	2
M-4	95	18	15	M8X1	40	2
M-5	115	18	15	M8X1	40	2
M-6	135	18	15	M8X1	60	2
M-7	155	18	15	M8X1	80	2
M-8	175	18	15	M8X1	98	2
M-1A	40	22	22	M10X1	-	1
M-2A	65	22	22	M10X1	-	1
M-3A	90	22	22	M10X1	50	2
M-4A	115	22	22	M10X1	50	2

# FITTINGS

<p><b>Banjo</b></p> <p>B-6</p> <p>Male thread M10 x1 (For 6mm OD Tubes) used for right angle connection from pump and Manifold.</p>	<p><b>Elbow Blocks</b></p> <p>E-6</p> <p>For joining two tubes at right angle of 6mm OD.</p>	<p><b>Tee Blocks</b></p> <p>T-6</p> <p>For dividing main line into three lines of 6mm OD tube.</p>	<p><b>Cross Blocks</b></p> <p>CR-6</p> <p>For dividing main line into Four lines of 6mm OD tube.</p>
<p><b>Connector Blocks</b></p> <p>C-6 &amp; C-4</p> <p>For joining two tubes of 6mm OD &amp; 4mm OD.</p>	<p><b>Elbow</b></p> <p>E-4T/M8x1or1/8" BSP</p> <p>Male thread (taper thread) for right angle connection to lub. point with female tapping.</p>	<p><b>Banjo (4mm)</b></p> <p>B-4T/M8x1or1/8" BSP</p> <p>Male thread M8x1 or 1/8" BSP used for right angle turn from end point of M/c.</p>	<p><b>Straight Connector</b></p> <p>SC-6 1/8" BSP, SC-4T M8 x1or 1/8" BSP</p> <p>For connecting 6mm &amp; 4mm OD Tube at end point of M/c.</p>
<p><b>Locking Screw</b></p> <p>LS-4, LS-6 &amp; LS-10</p> <p>Locking screw of 4 mm. OD Tube, 6 mm. OD Tube &amp; 10 mm. OD Tube.</p>	<p><b>Plugs</b></p> <p>P-8 &amp; P-10</p> <p>Thread M8x1, M10x1 for closing the extra point &amp; end port of manifold.</p>	<p><b>Clamps</b></p> <p>C-4-1, C-4-2, C-4-3, C-6-1&amp; C-10-1</p> <p>To clamp Single, Two, Three tube 4mm OD, Single tube 6mm &amp; 10mm OD.</p>	<p><b>Straight Connector</b></p> <p>SC-10 T/1/4" BSP</p> <p>Male thread 1/4" BSP (taper thread) for connecting 10mm OD tube.</p>

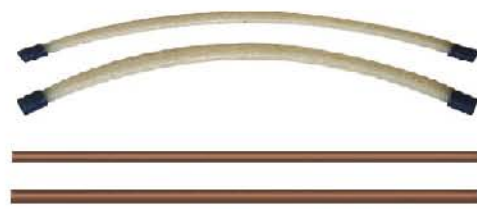
## FLEXIBLE RUBBERISED HOSE



### Technical Specification

MODEL	DESCRIPTION
RH-4-250	250mm long with 4mm steel ends
RH-4-500	500mm long with 4mm steel ends
RH-4-800	800mm long with 4mm steel ends
RH-4-1000	1000mm long with 4mm steel ends
RH-6-250	250mm long with 6mm steel ends
RH-6-500	500mm long with 6mm steel ends
RH-6-800	800mm long with 6mm steel ends
RH-6-1000	1000mm long with 6mm steel ends

## NYLON & STEEL TUBES



### Technical Specification

MODEL	DESCRIPTION
ST-4	OD-4mm, Steel tube (Copper coated)
ST-6	OD-6mm, Steel tube (Copper coated)
ST-10	OD-10mm, Steel tube (Copper coated)
NT-4	OD-4mm, Nylon tube
NT-6	OD-6mm, Nylon tube
NT-10	OD-10mm, Nylon tube

## PROGRESSIVE DISTRIBUTOR BLOCKS

Model : PB-4555 / PB-6080

Progressive Distributor Blocks of PB-4555/PB-6080 series are meant for distribution of lubricant delivered by a pump to various lubrication points in sequence-one after another. If any of the lubrication point is blocked the progressive block will stop functioning. With suitable monitoring device, this blockage is sensed and suitable warning is given to avoid running the machine without proper lubrication system. Secondary block can be connected to output of a progressive block for further distribution of the lubricant. These blocks can be used for following kind of Centralised Lubrication Systems :

1. Intermittent Grease Systems
2. Intermittent Oil Systems
3. Recirculating Oil Systems



## SPARES

Float Switch



Pressure Switch



Pressure Gauge



Oil Filler Cum Air Breather



Suction Strainer



Relief Valve



In Line Filter



Sight Glass



Oil Level Gauge







## AIR & OIL MIST LUBRICATION SYSTEM

Mist lubrication unit is designed to meet the requirement where oil is supplied in the form of fog/ mist. It is basically pneumatically operated. It is available both in intermittent/ continuous discharge, through pneumatic pump, oil come in atomizer with the help of progressive block/ metering cartridge/ control valve and with air from the solenoid valve, we get the mist lubrication. Air is controlled by ON/OFF Solenoid valve.

Jyoti Enterprises Air Oil Mix Systems are designed for applications where minute amount of metered lubricant is required to be applied on a surface.



The lubricant is metered using an oil injector and is carried to the mixing block where the air and oil get mixed. The air breaks the oil into minute droplets and carries it to the lubrication point. The mixture is then passed through the nozzles creating a fine spray of oil which can be applied on any surface.

Air oil mix systems are used for conveyors, high speed spindle, band saw machines etc.

The advantages of air oil mix system over conventional mist system are:

- More reliable than conventional venturi type mist systems
- More eco friendly
- More easily controllable
- No dripping
- Common Applications

Conveyors, High Speed Spindle, Reclaimer



### Technical Specification

MODEL	DESCRIPTION
JE-AOML-03 (Intermittent lubrication)	Reservoir cap. 3 Ltrs., Air pressure req. 4-6 Kg/cm <sup>2</sup> , Input voltage 220 V. Lubricant : any lubricant with viscosity 10 to 1000c St at 400°C
JE-AOML-05 (continuous lubrication)	Reservoir cap. 5 Ltrs., Air pressure req. 4-6 Kg/cm <sup>2</sup> , Input voltage 220 V. Lubricant : any lubricant with viscosity 10 to 1000c St at 400°C

### Applicability

conveyors, sliding chains, textile machines, stripes, spindles, shearing machines etc.



## 24V DC / Battery Operated Grease Lubricators

These pumps are driven by 24 VDC Power Supply. Maximum pressure for these pumps are 350 bar with relief valve set at 150 Bar. These pumps are suitable for various applications like On-Road and Off-Road Vehicle Chassis Lubrication, HEMM Lubrication, Injection Molding Machines, Printing Press, Power Press, Construction Machinery, etc. They are normally used with progressive distributors or directly as multi line pumps. They come in different reservoir capacities 3, 5 or 7 liters depending on the models and series. The pump can accommodate maximum 4 nos. pumping units (in MGL models maximum 3). In case, less units are required a unit can be removed and a plug with sealing ring can be fastened in place.

**Common Applications** Buses & trucks chassis, Concrete Pumps, Excavators, Injection Molding Machines, Power Presses, Printing Presses, Ginning Machines, etc.

# OUR PRODUCTS RANGE



**MOTORISED LUBRICATION UNITS**



**AIR OPERATED GREASE PUMP**



**24V-DC & 12V-DC / BATTERY OPERATED GREASE PUMP**



**ELECTRO PNEUMATIC GREASE PUMP**



**AIR & OIL MIST LUBRICATION SYSTEMS**



**HAND OPERATED GREASE PUMP**



**AIR OPERATED OIL PUMPS**



**HAND OPERATED PISTON OIL PUMP**



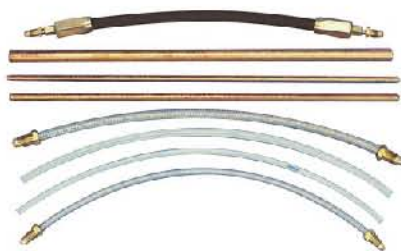
**MULTILINE GREASE LUBRICATION SYSTEM**



**PROGRESSIVE GREASE DISTRIBUTOR BLOCKS**



**MOTOR PUMP ASSEMBLY**



**LUBRICATION TUBINGS**



**LUBRICATION-FITTINGS**



## TERMS & CONDITION

### PRICE

The price quoted are F.O.R. Our works, at Faridabad Haryana (INDIA)

### PACKING

We would be charging @ 4% of the price against packing.

### SALES TAX

Our quoted are exclusively of sales tax. In case of interstate sale, the sales tax would be charged CST@ 2% against form 'C', otherwise local sale tax @5.25% within Haryana State.

### TERMS OF PAYMENT

Normal payment terms are against delivery. But it will depends and changes for OEM & users care.

### WARRANTY

We warranty that, all the equipments, accessories, fittings manufactured by us are free from defects in the material and workmanship. We undertake to repair or replace them in case they are returned to us. Normally our warranty would be enforced for 12 months from the date of despatch of the material.

### INSTALLATION

We offer our services for erection / commissioning of lubrication system supplied by us at customer's Machine. We would be charging extra for this service according to machine size and no.of lubrication point.

### JURISDICTION

Any dispute arising out of our contract/sale would be settled in the court of faridabad only.

### FORCE MAJEURE

We shall not be liable for damage for delay in supplying the material /not supplying the material due to circumstances beyond our control like fire, flood, earthquake, strike, lock-out, labour disturbance, lay off, Shortage of power, supply of material, riots lack of transportation etc.







## **JYOTI ENTERPRISES**



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