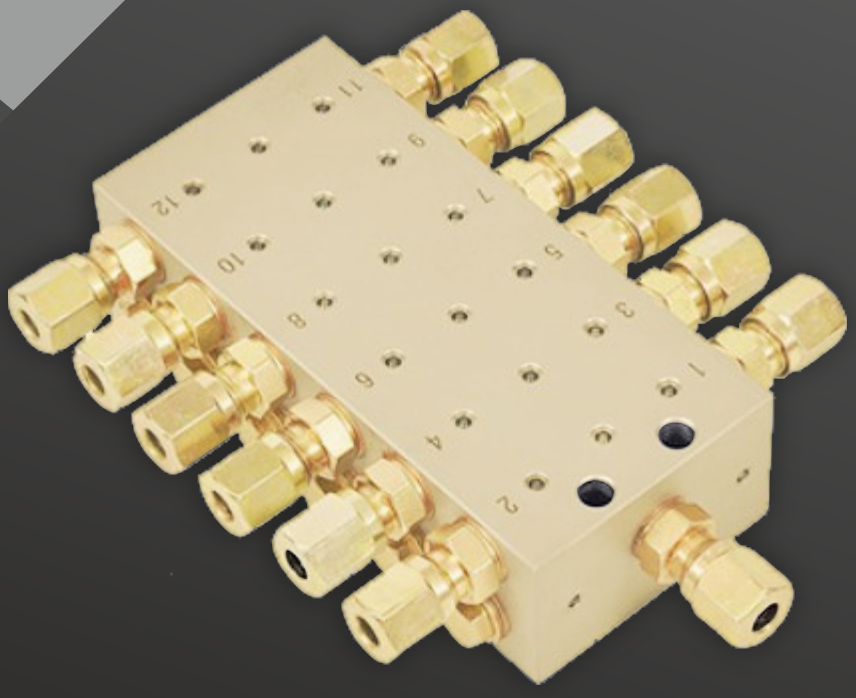
MINAR

DISTRIBUTION BLOCKS & INJECTORS



MINAR INDUSTRIES

AN ISO 9001:2015 COMPANY

A Unit of Himind Group

www.minar.co.in

ABOUT US

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MINAR INDUSTRIES is a flagship company of HIMIND group (since 1997) engaged in Design & Manufacturing of critical components for German Multinational Companies for their Concrete Pumps and other Construction equipment.

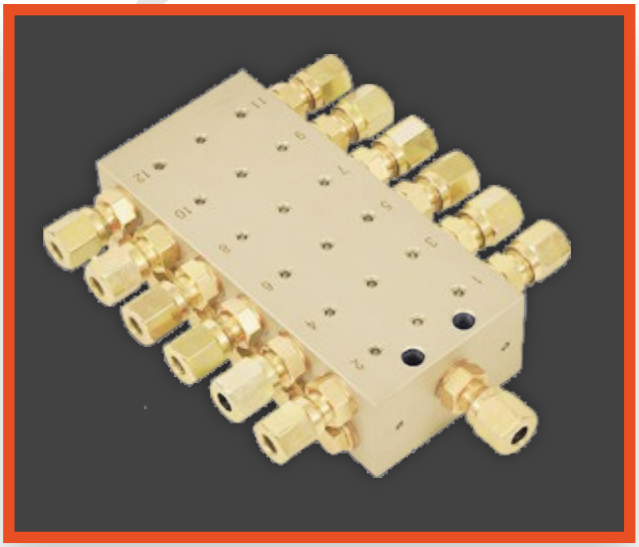
Our core competence is Hydraulics and we now have added a new range of products to our existing range. That is Lubricant Distributor blocks both Progressive and Dual Line configurations. Other products include Manifolds, Metering cartridges, Injectors, Fittings, Hoses, and Timers.

We also give the complete Lubrication systems with controls

PRODUCTS

PRODUCTS

SINGLE LINE DISTRIBUTOR BLOCKS



LUBRICANT DISTRIBUTOR BLOCKS are critical components of equipment which requires precise and timely lubrication at various places.

These are used in Construction equipment, Automobile, Machine tools and many more applications.

Minar Lubricant Distributor Blocks are key components of a progressive lubrication system. They can be used on mobile and industrial equipment ranging from just a single Block all the way up to multiple Block systems, lubricating a large number of points.

The job of the Lubricant Distributor Block is to accurately and consistently dispense a precise and measured amount of lubricant to the individual points. This consistency will provide lubrication to critical care areas that extend machine life and reduce unscheduled downtime.

DEMONSTRATION OF SINGLE LINE

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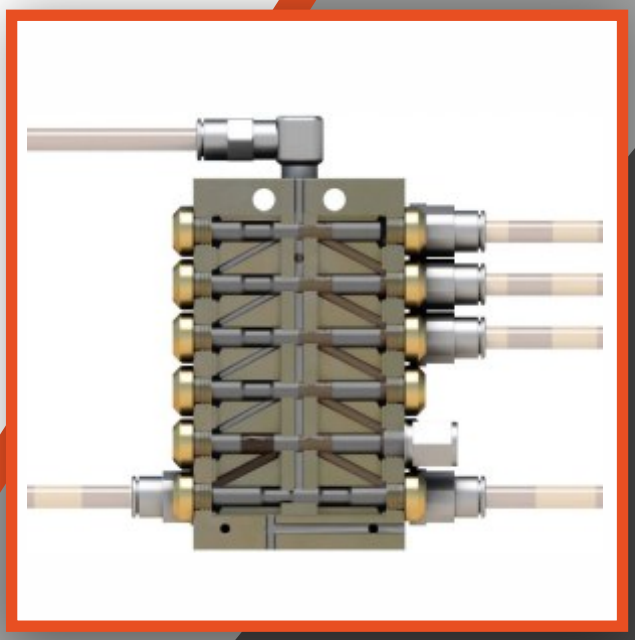
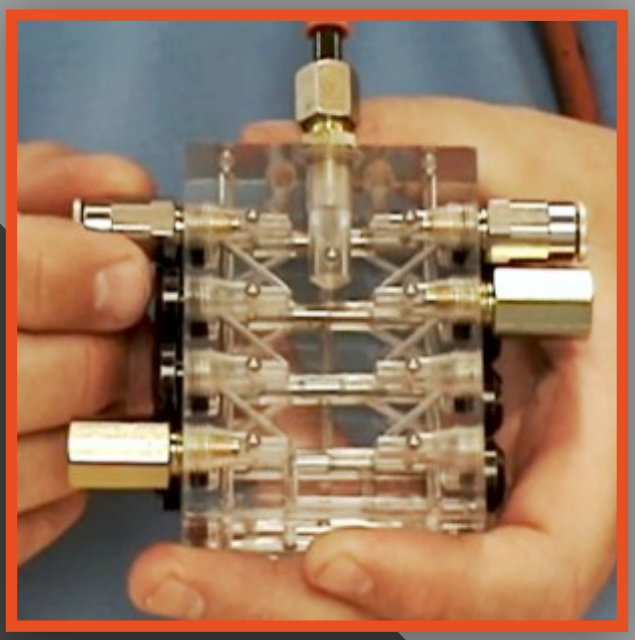




To Demonstrate How Distributor Block Operates, Look At The Adjacent Picture (Cut Section)

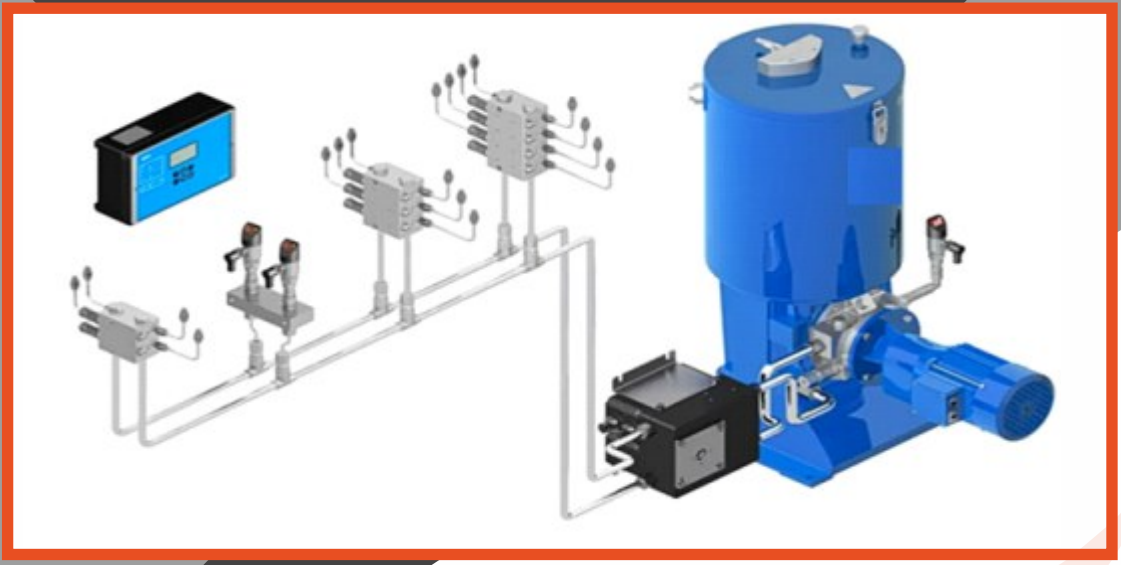
The only moving parts in these blocks are the measuring pistons that are machined and matched to the outlet pair. They control intricate internal movement, direct lubricant into the different chambers, pushing these pistons from one side to the other in a pattern starting from the top outlets cascading down in a series to the bottom outlets.

Lubricant will then redirect through the internal passages to the top again and slide the Pistons in the other direction following the same top to bottom pattern, dispensing lubricant out the second set of outlets for the valves to operate correctly, outlets labelled one in two must never be plugged. Plugging even one of these outlets will stop the lubricant flow to the entire system.

Any combination of remaining outlets may be used or plugged, depending on your lubrication requirements.

Please note, the lubricant will redirect from this outlet to the next open outlet beneath it. This essentially doubles the output volume to this next open outlet for the standard valves. This is the only way to increase the output volume to a specific outlet.

DUAL LINE DISTRIBUTOR BLOCKS

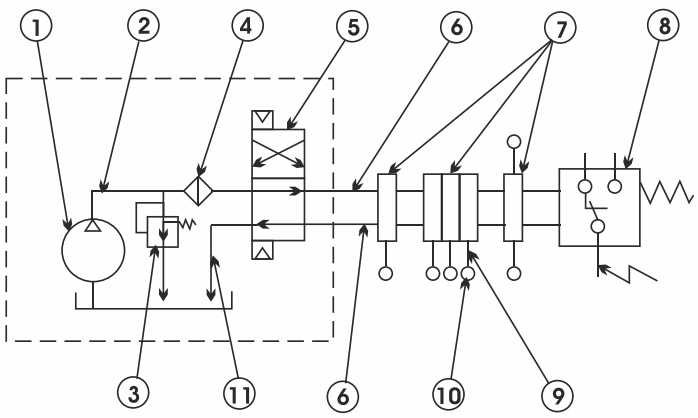


This type of system basically consists of a reservoir with in-built reciprocating plunger pump, reversing valve, dose feeders, end pressure relay and pilings.

In this system, there are two main supply lines which are laid parallel to the equipment to be lubricated. Inlet to dose feeders are connected to these two lines and the outlets from the feeders are connected to points of lubrication.

The pump feeds grease alternately into the two main lines through the reversing valve. The end pressure relay is located at the farthest point from the pump which trips the pump motor and changes position of the reversing valve as soon as a pre-set pressure is achieved in the line being pressurized. This completes the cycle. The next cycle is started through an adjustable timer.

A dual line system generally have a working pressure of 100 – 300 kg/cm^2 and can feed metered grease to hundreds of lubrication points through pipeline



1. Pump with lubricant reservoir
2. Pressure line
3. Pressure relief valve
4. Filter
5. Reversing valve
6. Main line
7. Dose feeder (metering device)
8. End pressure relay
9. Feed line
10. Lubrication point
11. Relief line

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VSKH METERING DEVICES



VSKH metering devices are durable galvanized steel VSK metering devices are designed for dual line systems with pressure of upto 400 bar. These metering devices are available with up to eight outlets, and each pair of outlets is equipped with an indicator pin for visual monitoring features and benefits

- Solid block construction for durability and error free exchange
- Operates effectively in a wide range of temperatures
- Easy to monitor
- Optional available piston detectors and limit switches

APPLICATION & TECHNICAL DATA

- Cement plants
- Mining excavators
- Steel plants

- Number of outlets 1 – 8 Spl up to 16 on request
- Lubricant Grease upto to NLGI 3
- Oil with a viscosity 20 mm^2/s
- Max operating temperature +80°C
- Max operating pressure 400 bar
- Material Carbon steel galvanized
- Metering Qty / output per cycle 0 – 1.5 cm
- Main line connection inlet G ¼
- Outlet connection G 1/4

METERING DEVICE VSG

The durable, galvanized steel VSG metering devices are designed for dual-line systems with pressures of up to 400 bar (5800 psi) These metering devices are available with up to eight outlets, and each pair of outlets is equipped with an indicator pin for visual monitoring. Additional features include rust-resistant material or rust- and acid-resistant material

Features & Benefits

- Easy cross-porting with external screw to combine
- Solid-block construction for durability and error-free exchange
- Operates effectively in a wide range of temperatures
- Easy to monitor

APPLICATION & TECHNICAL DATA

- **Number of Outlets : 1-8**
- **Operating temperature : max +80 °C.**
- **Lubricant : grease up to NLGI 3, oil with a viscosity of min 20 mm2/s.**
- **Max Operating pressure : 400 bar**
- **Materials : Carbon steel galvanized.**
- **Metering quantity per stroke: 0–2,2cm3.**
- **Main line connection inlet : G 3/8, 3/8 NPTF.**
- **Outlet connection : G 1/4, 1/4 NPTF.**
- **Dimensions min 148 × 94 × 54 mm.**
- **Dimensions max : 148 × 190 × 54 mm.**

Steel plants

Cement plants

Mining excavators

METERING DEVICE VSL

The durable, galvanized steel VSL metering devices are designed for dual-line systems with pressures of up to 400 bar (5800 psi) These metering devices are available with up to eight outlets, and each pair of outlets is equipped with an indicator pin for visual monitoring

Features & Benefits

- Easy cross-porting with external screw to combine
- Solid-block construction for durability and error-free exchange
- Operates effectively in a wide range of temperatures
- Easy to monitor

APPLICATION & TECHNICAL DATA

- **Number of Outlets : 2-8**
- **Operating temperature : max +80 °C,**
- **Lubricant : grease up to NLGI 3 oil with a viscosity of min 20mm2/s**
- **Operating pressure max : 400 bar**
- **Materials : Steel galvanized**
- **Metering quantity per stroke : 0–5 cm3**
- **Main line connection inlet : G 3/8, 3/8 NPTF**
- **Outlet connection: G 1/4, 1/4 NPTF.**
- **Dimensions min : 148 × 94 × 54 mm.**
- **Dimensions max : 148 × 220 × 54 mm**

Steel plants

Cement plants

Mining excavators

OIL & GREASE INJECTORS

Oil and grease injectors with different sizes to give you a wide output range that easily lubricates any size bearings on your machine tool, production or packaging equipment. Our injectors are optimized to enhance the performance of our automatic lubrication systems.

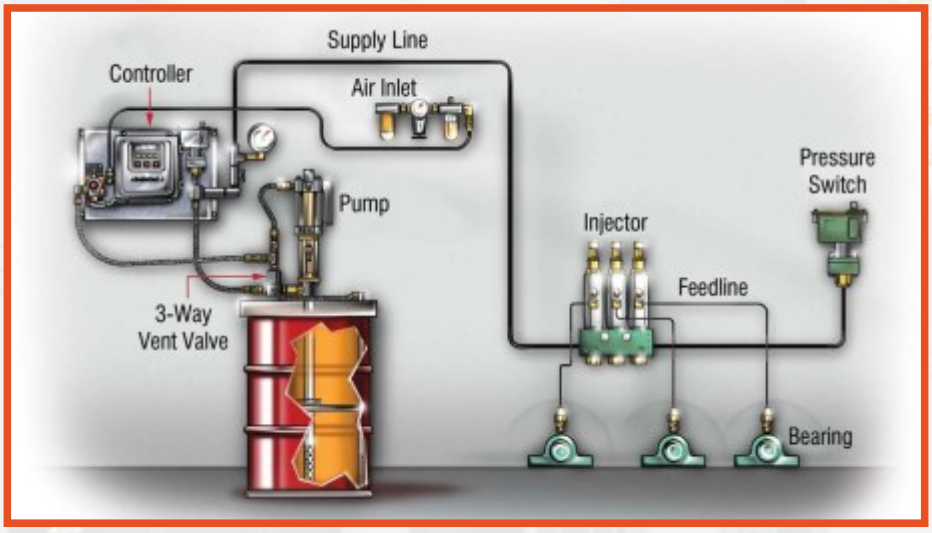
These oil and grease injectors keep your production equipment running smoothly with minimal oversight by your manufacturing team.

As a part of your machinery automatic lubrication system, Injectors help minimize equipment downtime and keep your equipment running smoothly

The engineering behind the design of our injectors makes it easy to add or remove injectors to fit any system

Our injectors are compatible with many greases and oils.

SCHEMATIC DIAGRAM OF INJECTORS



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