

HAVA

Mining and Rock Drilling Air Tools

Redefined
Technology

Airline
Lubricator
BLG 30



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Introduction

Safety and Operating Instructions

Thank you for choosing a product from HARYROCK. We have been committed to finding new and better ways of fulfilling our customers' needs. Through the years, we have developed innovative and ergonomic product designs that have helped customers improve and rationalize their daily work.

Haryrock Engineering Pvt. Ltd. has a strong global sales service network, consisting of distributors worldwide. Our experts are highly trained professionals with extensive product knowledge and application experience. In all corners of the world, we can offer product support and expertise to ensure that our customers can work at maximum efficiency at all times.

About the Safety and operating instructions

The aim of the instructions is to provide you with knowledge of how to use the machine in an efficient, safe way. The instructions also give you advice and tell you how to perform regular maintenance on the machine. Before using the machine for the first time, you must read these instructions carefully and understand all of them.

Spare Parts List of Airline Lubricator BLG 30



No.	Description	Remark	Quantity	Part Number
1	O-ring	26.2 x 3 mm 1.03 x 0.12 in	1	0663 2128 00
2	Plug		1	9090 0371 00
3 (4-5)	Oil adjusting screw, complete		1	9090 0189 80
4	Oil adjusting screw		1	—
5	O-ring	3.3 x 2.4mm 0.13 x 0.09 in.	1	0663 2110 00
6	Lock screw		1	9090 0370 00
7	Plug		1	0686 3701 00
8 (9-10)	Claw coupling, complete		1	9000 0303 00
9	Claw coupling	G1A	1	—
10	Gasket (Coupling washar)		1	9000 0000 00

Technical Data

Make (Model)	Weight Kg (1b)	Volume ltr (OZ)	Air flow range l/S (cfm)
Hava (BLG 30)	3 (6.6)	1.3 (44)	25-134 (53-284)

Design and function

BLG 30 is designed to lubricate compressed air equipment using mineral oil. No other use is permitted.

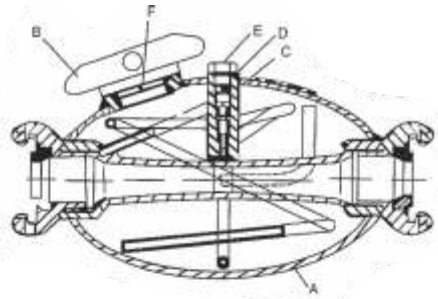
Air flows through the lubricator from the air inlet, partly directly to the pneumatic machine and partly through the air pipe into the oil chamber so that static pressure acts on the oil level in the lubricator. The air forces the oil up into the oil pipe through both the pipe opening and the small drilled holes in the oil pipe, finally reaching the oil dosage screw.

The through-flow pipe is pinched opposite the oil duct (Venturi), thus increasing the flow rate of the compressed air and reducing the air pressure at the mouth of the oil duct.

Because of the pressure difference, the lubricating oil is forced out into the through-flow pipe where the oil is atomized and carried with the air via the hose to the pneumatic machine. The supply of the oil can be regulated by using the oil dosage screw to open or close the oil duct.

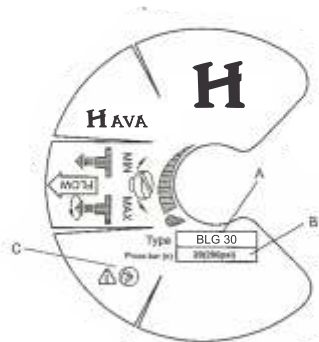
Main Parts

- A. Oil Chamber
- B. Filler plug
- C. Oil dosage screw
- D. Lock ring.
- E. Plug
- F. Venting duct



Labels

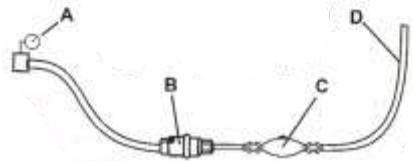
- A. Machine Type
- B. Maximum permitted compressed air pressure.
- C. The warning symbol together with the book symbol means that the user must read the safety and operating instructions before the machine is used for the first time.



Installation

Hoses and connections

- A. Compressed air source.
- B. Water separator (optional)
- C. Lubricator
- D. Max. 3 m (10 ft) compressed air hose between the lubricator and the pneumatic machine.



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The maximum permissible air pressure 20 bar (e) (290psi.) must not be exceeded.

Blow any impurities out of the compressed air hose before connecting into the lubricator.

For the BLG 30, a hose with a minimum internal diameter of 20-25 mm (3/4-1 in.) must be used.

There is an arrow on the lubricator to indicate the correct direction of air flow. When connecting the lubricator, make sure that the arrow points in the same direction as the airflow.

Lubrication

The lubricant is important for the pneumatic machine's function and has great impact on the useful service life. To guarantee good lubrication, the length of the air hose between the separate lubricator and the pneumatic machine must not exceed 3 meters.

Viscosity range





Temperature C (F)	Viscosity
+15 to + 50 (+59 to + 122)	ISO VG 46-68 200-300 SUS
-20 to +15 (-4 to+59)	ISO VG 22-32 100-150 SUS

For the correct recommended lubrication oil, refer to the Safety and operating instruction for the pneumatic machine used together with the lubricator.

Oil Adjustment

BLG 30 is delivered with the oil dosage screw open 1 ½ turns. The oil dosage screw can be turned through a total of six complete turns. It is steplessly adjustable.

To adjust the oil dosage, do the following:

-  Remove the protective plug.
-  Insert a screwdriver through the hole in the lock ring to the oil dosage screw, which has grooves for the screwdriver.
Clockwise reduces oil flow.
Anticlockwise increases oil flow.
-  Never unscrew or remove the lock ring. If the oil dosage screw become loose, the lock ring will prevent it from blowing out of the lubricator.
-  Check the exhaust port of the pneumatic machine to see that sufficient lubrication is being exhausted.

BLG 30 must only be used together with mineral oil.

Operation

Filling the Lubricator with oil.

Always top up the lubricator with oil at the start of the shift.

Switch off the air supply to the lubricator.

Vent the air line to remove trapped air.

Clean around the outside of the filler plug to prevent dirt from entering the lubricator.

Unscrew the filler plug by two turns, which opens the venting duct and release the remaining compressed air in the lubricator.

Fill the lubricator with a mineral based oil.

Re-fit and tighten the filler plug. The lubricator is now ready for use.

Maintenance

Regular maintenance is a basic requirement for the continued safe and efficient use of the lubricator.

Follow the maintenance instruction carefully.

- ☞ Before starting maintenance on the lubricator, clean it in order to avoid exposure to hazardous substances.
- ☞ Use only authorised parts. Any damage or malfunction caused by the use of unauthorised parts is not covered by warranty or product liability.
- ☞ When cleaning mechanical parts with solvent, comply with appropriate health and safety regulations and insure there is satisfactory ventilation.
- ☞ For a major service to the lubricator, contact your nearest authorised workshop.

Every day

Before undertaking any maintenance on the lubricator, always switch off the air supply and then disconnect the air hose from the lubricator.

Clean and inspect the lubricator and its functions each day before work commences.

Conduct a general inspection for leaks and damage.

Check that the claw couplings are tightened and free from damage.

Change damaged parts immediately.

Replace worn components at the right time.

Make sure that all the attached and related equipment, such as hoses are properly maintained.

Periodic maintenance

Once a year, lubricator must be dismantled and all parts be cleaned and checked. This work must be performed by authorised staff, trained for this task.

Assembly instruction

When reassembling the claw coupling on the lubricator, apply LOCTITE 577 TM

Troubleshooting

If the lubricator is not working properly, check the following points

Check the oil level.

Check that the dimension and length of the air hose are according to the recommendations, See "installation".

Check for Leakage around the filler plug.

Make sure that there is no dirt in the oil chamber.

If the lubricator function is still not satisfactory after this procedure, contact an authorised service workshop.

Storage

Clean the lubricator properly before storage, in order to avoid hazardous substances.

If the lubricator is stored filled with oil, place it with the filler plug upwards to prevent oil from leaking out through the mouth of the air pipe.

Always store the lubricator in a dry place.

Disposal

A used machine must be treated and disposed of in such a way that the greatest possible portion of the material can be recycled and any negative influence on the environment is kept as low as possible, and in respect to local restrictions.

Safety Instructions

To reduce the risk of serious injury or death to yourself or others, read and understand the Safety and operating instruction before installing, operating, repairing, maintaining, or changing accessories on the machine.

Post this Safety and operating instruction at work locations, provide copies to employees, and make sure that everyone reads the safety and operating instruction before operating or servicing the machine.

In addition, the operator or the operator's employer must assess the specific risks that may be present as a result of each use of the machine.

Safety signal words

The safety signal words Danger, Warning and Caution have the following meanings:

DANGER, WARNING, CAUTION Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

Personal precautions and Qualifications

Only qualified and trained persons may operate or maintain the machine. They must be physically able to handle the bulk, weight, and power of the tool. Always use your common sense and good judgement.

Personal Protective equipment

Always use approved protective equipment. Operators and all other persons in the working area must wear protective equipment, including at a minimum:

- 1) Impact resistant eye protection with side protection.
- 2) Protective gloves.








Drugs, Alcohol or Medication

Drugs, alcohol or medication may impair your judgment and powers of concentration. Poor reactions and incorrect assessments can lead to severe accidents or death. Never use or operate the machine when you are tired or under the influence of drugs, alcohol or medication.

Installation & Precautions

DANGER - Whipping air hose

A compressed air hose that comes loose can lash around and cause personal injury or death. To reduce this risk:

-  Check that the compressed air hose and the connections are not damaged. Replace if necessary.
-  Check that all compressed air connections are properly attached.
-  Never carry a pneumatic machine by the air hose.
-  Never attempt to disconnect a compressed air hose that is pressurized. First switch off the compressed air at the compressor and then bleed the machine by activating the start and stop device.
-  Never point a compressed air hose at your self or anyone else. To avoid the risk of getting injured never use compressed air to blow for example dust, dirt etc. from your clothes.
-  Do not use quick disconnect couplings at tool inlet. Use hardened steel (or material with comparable shock resistance) threaded hose fittings.
-  Whenever universal twist coupling (claw coupling) are used, we recommended that lock pins are installed and whip check safety cables are used to safeguard against possible hose to hose connection failure.



DANGER- Pressurized lubricator hazard

When the lubricator is connected to a compressed air line, the oil chamber is pressurized. If the filler plug is loosened, there is a risk of oil being ejected, which can cause personal injury

Always disconnect the lubricator from the compressed airline before loosening the Filler plug.

DANGER - Ejection of the oil dosage screw hazard.

The lock ring is a safety stop that prevents the oil dosage screw from being ejected. If the oil dosage screw comes loose it can be ejected and cause personal injury.

-  Never remove the lock ring.
-  Never adjust oil dosage, if the lock ring is missing.

WARNING – Slipping, Tripping and Falling hazards

There is a risk of slipping or tripping or falling, for example tripping on the hoses or on other objects. Slipping or tripping or falling can cause injury. To reduce this risk:

- ☞ Always make sure that no hose or other object is in your way or in any other person's way.

DANGER - Electrical hazard

The machine is not electrically insured. If the machine comes into contact with electricity, serious injuries or death may result.

- ☞ Never operate the machine near any electric wire of other source of electricity.
- ☞ Make sure that there are no concealed wires or other sources of electricity in the working area.

Maintenance

Any machine modification may result in bodily injuries to yourself or others.

- ☞ Never modify the machine. Modified machines are not covered by warranty or product liability.
- ☞ Always use original parts, insertion tools and accessories approved by HARYROCK.
- ☞ Change damaged parts immediately.
- ☞ Replace worn components in good time.

Storage

Keep the machine and tools in a safe place, out of the reach of children and locked up.

HAPPY DRILLING

With

“**HAVA**” AIRLINE LUBRICATORS



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