



INSTRUCTIONS 1401-T00 e

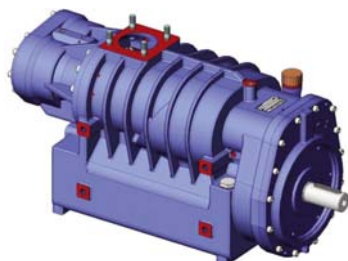
Section	1401
Effective	February 2016
Replaces	October 2015

Original instructions

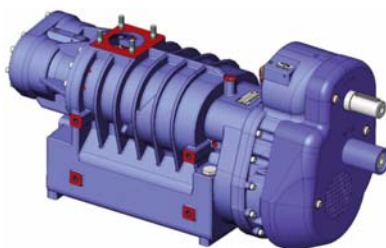
B1500

SCREW COMPRESSORS

20R/30R



19R/22L



OPERATION
MAINTENANCE
SAFETY



**This Instructions only contains bare shaft machine information.
It is imperative to have in complement the accessories instructions, also the parts list before installing the equipment.**



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Your distributor :

MOUVEX TRUCK SCREW COMPRESSOR

SAFETY, OPERATION AND MAINTENANCE INSTRUCTIONS

MODEL : B1500

SAFETY INFORMATIONS



This is a SAFETY ALERT SYMBOL

When you see this symbol on the product, or in the manual, look for one of the following signal words and be alert to the potential for personal injury, death or major property damage.



Warns of hazards that **WILL** cause serious personal injury, death or major property damage



Warns of hazards that **CAN** cause serious personal injury, death or major property damage.



Warns of hazards that **CAN** cause personal injury or property damage.

NOTICE

Indicates special instructions which are very important and must be followed.

REMARKS :

MOUVEX truck screw-type compressors **MUST** be installed in systems designed by qualified personnel. The installation **MUST** be in compliance with local standards, national regulations and rules of safety.

This manual is designed to permit installation and commissioning of MOUVEX truck screw-type compressors and MUST accompany the compressor.

Maintenance of MOUVEX screw-type compressors must ONLY be carried out by qualified technicians. This maintenance must meet local and national standards as well as all safety regulations. Read this manual, including all instructions and warnings, in full BEFORE any use of MOUVEX compressors.

Do not remove the warning and use label stickers that are found on the compressors.

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ADDITIONAL DOCUMENTATION

The table below gives the list of instructions in addition to this central instruction :

B1500 application	Instructions	Spare parts list
20R/30R	NT 1401-Q00	PL 1401-Q02
19R/22L	NT 1401-Q00	PL 1401-Q01
XL DDIC	NT 1401-V00	PL 1401-V01
Torque limiter	NT 1401-B00	PL 1401-Q01
Check and relief valve	NT 1401-E00	PL 1401-Q01
Oil cooler	NT 1401-AC00	PL 1401-Q01

SAFETY DATA


⚠ WARNING



Hazardous machinery can cause severe personal injury or property damage

IT IS IMPERATIVE TO APPLY THE TRUCK PARKING BRAKE AND TO BLOCK THE WHEELS BEFORE ANY INTERVENTION DUE TO RISKS OF SERIOUS BODILY INJURIES OR PROPERTY DAMAGE.

⚠ WARNING



Hazardous fluids can cause fire, serious personal injury or property damage.

COMPRESSING GASES INTO A VESSEL CONTAINING FLAMMABLE OR EXPLOSIVE GASES, OR COMPRESSING FLAMMABLE OR EXPLOSIVE GASES, CAN CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

⚠ CAUTION



Hazardous pressure can cause personal injury or property damage.

FAILURE TO INSTALL ADEQUATELY SIZED PRESSURE RELIEF VALVE(S) CAN CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.


⚠ CAUTION



Extreme heat can cause injury or property damage.

COMPRESSOR, PIPING AND ACCESSORIES WILL BECOME HOT DURING OPERATION AND CAN CAUSE SERIOUS PERSONAL INJURY.


⚠ WARNING



Hazardous or toxic fluids can cause serious injury.

CONTENTS OF THE COMPRESSOR, TANK, PIPING, AND FILTERS COULD BE HAZARDOUS TO HEALTH. TAKE ALL NECESSARY PRECAUTIONS WHEN PERFORMING COMPRESSOR SERVICE OR MAINTENANCE.

⚠ WARNING



A loud noise can cause permanent body damage.

THE NOISE EMITTED BY WORKING MOUVEX SCREW COMPRESSOR CAN BE HIGHER THAN 80 DBA. THE END USERS MUST USE, WHEN NECESSARY THE APPROPRIATE EAR PROTECTIONS. FAILURE TO WEAR HEAR PROTECTIONS IN AREAS WHERE THE NOISE IS HIGHER THAN 80 DBA CAN LEAD TO PERMANENT BODY DAMAGE.

SAFETY CHECK LIST

1. Before operating the compressor, ensure the vessel to which the compressor is connected is certified to withstand the pressure and /or vacuum produced.
2. Verify adequately sized relief valves have been fitted to protect the vessel. Do not use solvents or inflammable products for cleaning the pipelines and the accessories. The vacuum pump should have separate vacuum and pressure relief valve fitted. MOUVEX supply pressure and vacuum relief valves for this purpose.
3. Volatile gas :
Gas/air mixtures which are potentially volatile/explosive must not be introduced or allowed to be introduced into the vacuum pump if volatile vapours are passed through the vacuum pump, adequate flame arresters and protective devices must be fitted. MOUVEX will not take any responsibility for the recommendation, performance or the safety of the vacuum pump in these conditions.
4. All pressure vessel and piping connected to the compressor must be isolated and in a safe operating condition.
5. Operators should wear ear protection when operating truck mounted compressors.
6. There are components within the compressor of sufficient weight to cause injury if mishandled. Use proper lifting devices as necessary. Do not attempt to lift the vacuum pump without disconnecting it from the base frame.
7. Where necessary, this equipment should be grounded to control static electricity.
8. The temperature of the air leaving the compressor is elevated above ambient due to air compression. Check that the elevated temperatures do not adversely affect the product and any material used in design of the system. Attach clearly marked warning signs to warn of potentially hot surfaces on the compressor, piping and accessories which will burn if touched.
9. Mounting of the compressor must be correctly engineered and the compressor must be properly secured. Refer to the Compressor Mounting section of this manual.

NOTICE :

MOUVEX COMPRESSORS ARE DESIGNED TO PRODUCE COMPRESSED AIR. NOT TO PUMP LIQUIDS, LIQUEFIED GASSES OR POWDERS THOUGH THE COMPRESSOR. TO DO SO WOULD VOID THE WARRANTY.

LIFTING POINTS :

The compressor can be picked up from underneath to be transported.



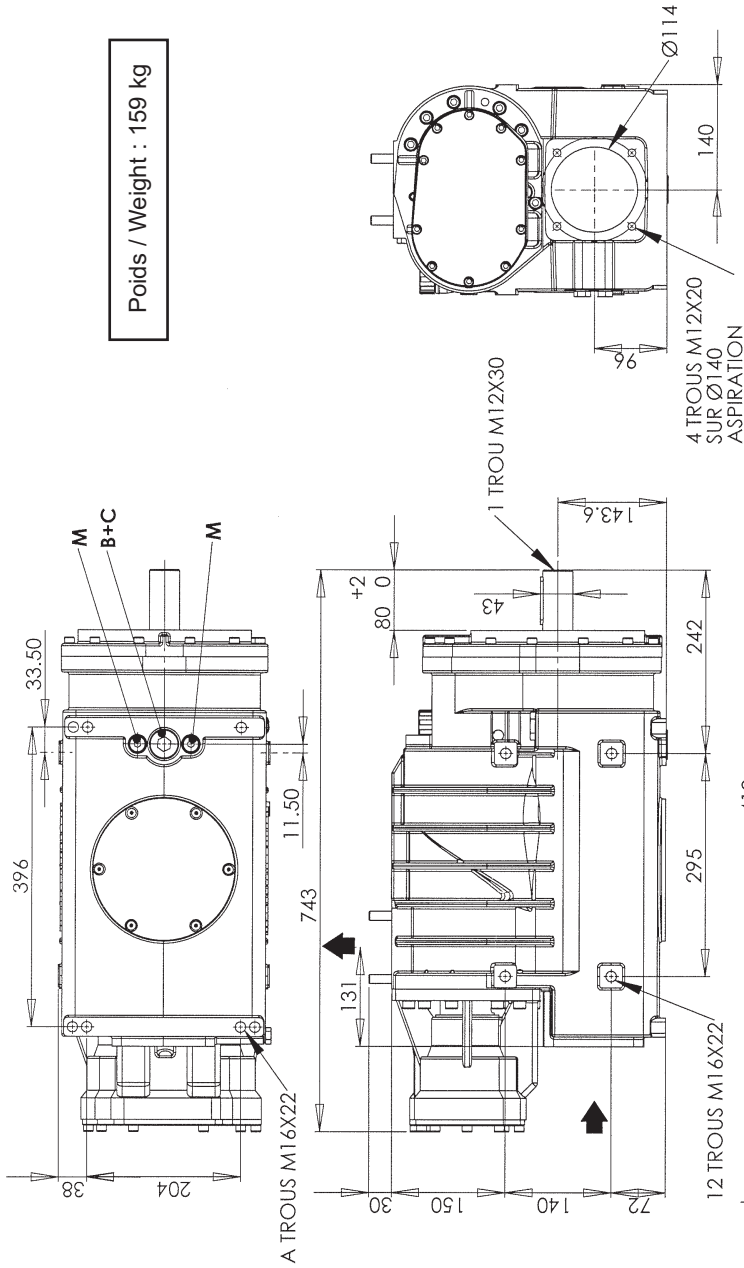
Discharge flanges threads can be used to install a lifting lug in order to transport the compressor.



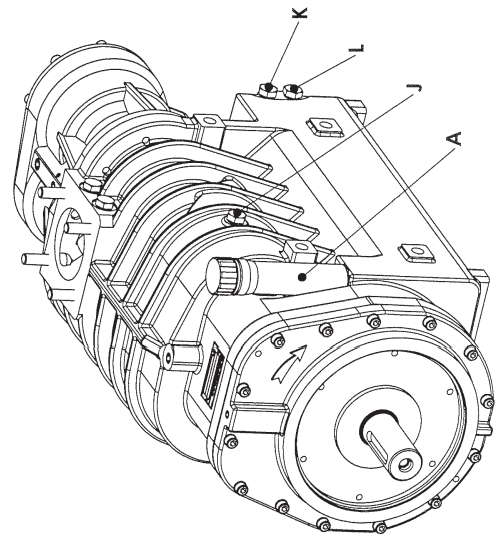
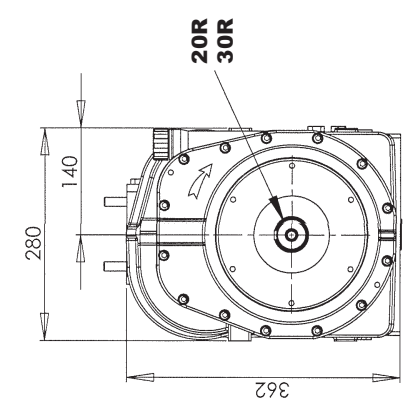
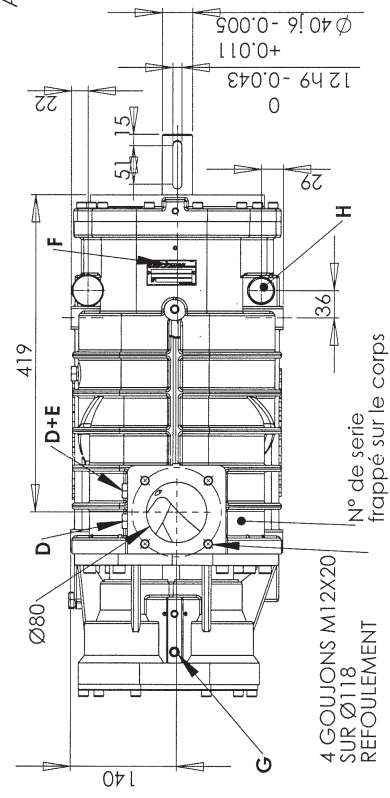
1. OVERALL DIMENSIONS

20R - 30R

Poids / Weight : 159 kg



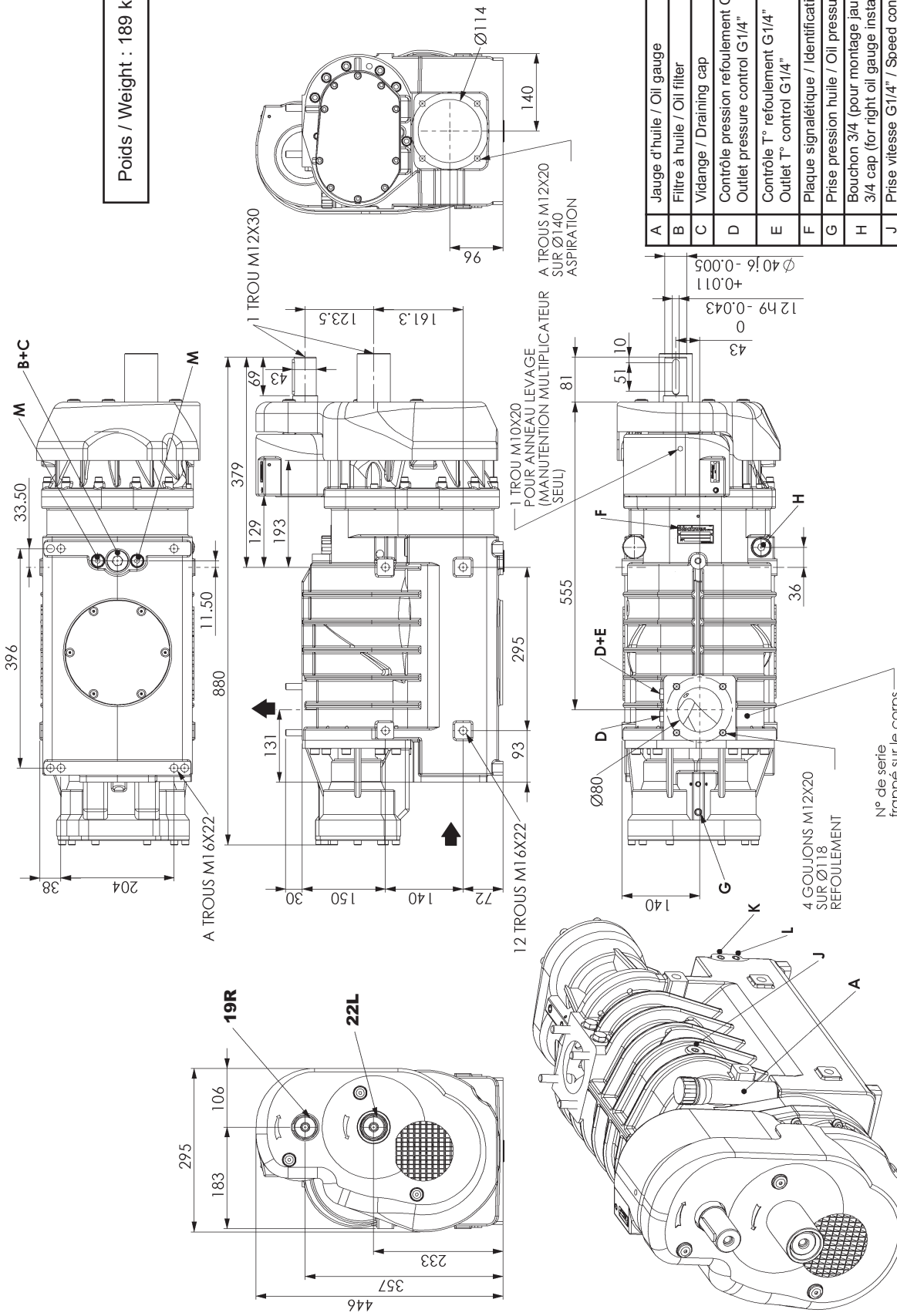
A	Jauge d'huile / Oil gauge
B	Filtre à huile / Oil filter
C	Vidange / Draining cap
D	Contrôle pression refolement G1/4" / Outlet pressure control G1/4"
E	Contrôle T° refolement G1/4" / Outlet T° control G1/4"
F	Plaque signalétique / Identification plate
G	Prise pression huile / Oil pressure plug
H	Bouchon 3/4 (pour montage jauge d'huile à droite) 3/4 cap (for right oil gauge installation)
J	Prise vitesse G1/4" / Speed control G1/4"
K	Contrôle pression aspiration G1/4" / Inlet pressure control G1/4"
L	Contrôle T° aspiration G1/4" / Inlet T° control G1/4"
M	Bouchon magnétique G3/8" / Magnetic plug G3/8"



1. OVERALL DIMENSIONS (continued)

19R/22L

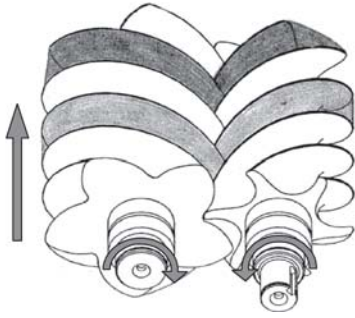
Poids / Weight : 189 kg



A	Jauge d'huile / Oil gauge
B	Filtere à huile / Oil filter
C	Vidange / Draining cap
D	Contrôle pression refolement G1/4"
E	Outlet T° refolement G1/4"
F	Plaque signalétique / Identification plate
G	Prise pression huile / Oil pressure plug
H	Bouchon 3/4 (pour montage jauge d'huile à droite) 3/4 cap (for right oil gauge installation)
J	Prise vitesse G1/4" / Speed control G1/4"
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L	Inlet T° aspiration G1/4" / Inlet T° control G1/4"
M	Bouchon magnétique G3/8" / Magnetic plug G3/8"

2. GENERAL DATA

2.1 Principle of operation



The male screw and the female screw mesh and rotate in opposite directions inside the casing fitted with inlet and discharge ports.

Rotation generates a volume increase on the inner face between threads and grooves, which corresponds to inlet, and a volume reduction on the upper face, which corresponds to compression.

On the discharge port side, a set of gears synchronizes the male screw and the female screw. Thus, the screws are not in contact. The discharged air does not enter in contact with any friction part and remains clean and free from particles.

On the drive shaft side, the female screw is driven by a set of step-up gears.

An oil pump delivers pressurized oil which circulates, lubricating gears and ball bearings.

Sealing is provided between lubricated parts and the compression stage by means of PTFE seals. These seals are mounted on hardened steel slip rings.

When the discharge line is open to the atmosphere (means low discharge pressure less than 0,3 bar), the B1500 compressor can draw in an air flow with a negative pressure that can be as low as -0,8 bar.

Thanks to their technology, B1500 compressors are reliable and have a long service life.

B1500 compressors need very limited maintenance, which reduce vehicle downtime.

The compressor is supplied with several solutions for adapting to the application drive speed :

- 20R and 19R/22L for mounting on a truck, the B1500 can then be mounted on the chassis. This presents the advantage of a lighter installation and frees space on the side of the vehicle which can be used for installing an additional tank.
- 30R for an electric, hydroelectric or diesel drive. In the case of the diesel drive, this must be declutched when starting and switching off the compressor.



Our packages are delivered without oil. The use of a compressor with an oil level that is not located between the two limits indicated by the gauge can lead to important property damage and serious injuries.

2. GENERAL DATA (continued)

2.2 Technical characteristics

The operating characteristics are given in the indicative operation conditions : ambient temperature and air inlet temperature 20°C, atmospheric pressure : 1013 mbars.

Speed (rpm) :

B1500	1	2	3	4	5	6
19R	975	1170	1365	1560	1755	1950
20R	1000	1200	1400	1600	1800	2000
22L	1125	1320	1580	1800	2035	2250
30R	1500	1800	2100	2400	2700	3000
Maximum discharge pressure (inlet suction air at 20°C)	2	2,5	2,5	2,5	2,5	2,5

2.3 Operating ranges

The operating ranges specified in the § TECHNICAL CHARACTERISTICS give the conditions that must be respected on mounting and packaging of the B1500 compressors, in order to be able to benefit from the guarantees for these pieces of equipment.

2.3.1 CONDITIONS AT SUCTION

	Maximum temperatures and pressures			
Speed (rpm) B1500 N-20R	1000	1200	1600	2000
Speed (rpm) B1500 N-30R	1500	1800	2400	3000
Speed (rpm) B1500 N-19R/22L, driving by shaft 22L	1125	1320	1800	2250
Speed (rpm) B1500 N-19R/22L, driving by shaft 19R	975	1170	1560	1950
Discharge pressure of compressor (bar)	2,0	2,5	2,5	2,5
Maximum inlet temperature allowable at this pressure (°C)	40	40	40	40

In all cases of use, the compressor inlet suction air must be filtered in order to eliminate particles bigger than 5 µm.

Compressor functioning under pressure :

The maximum pressure drop at suction must be lower than 75 mbar.

A clogging indicator device turns red when the filter needs to be changed.

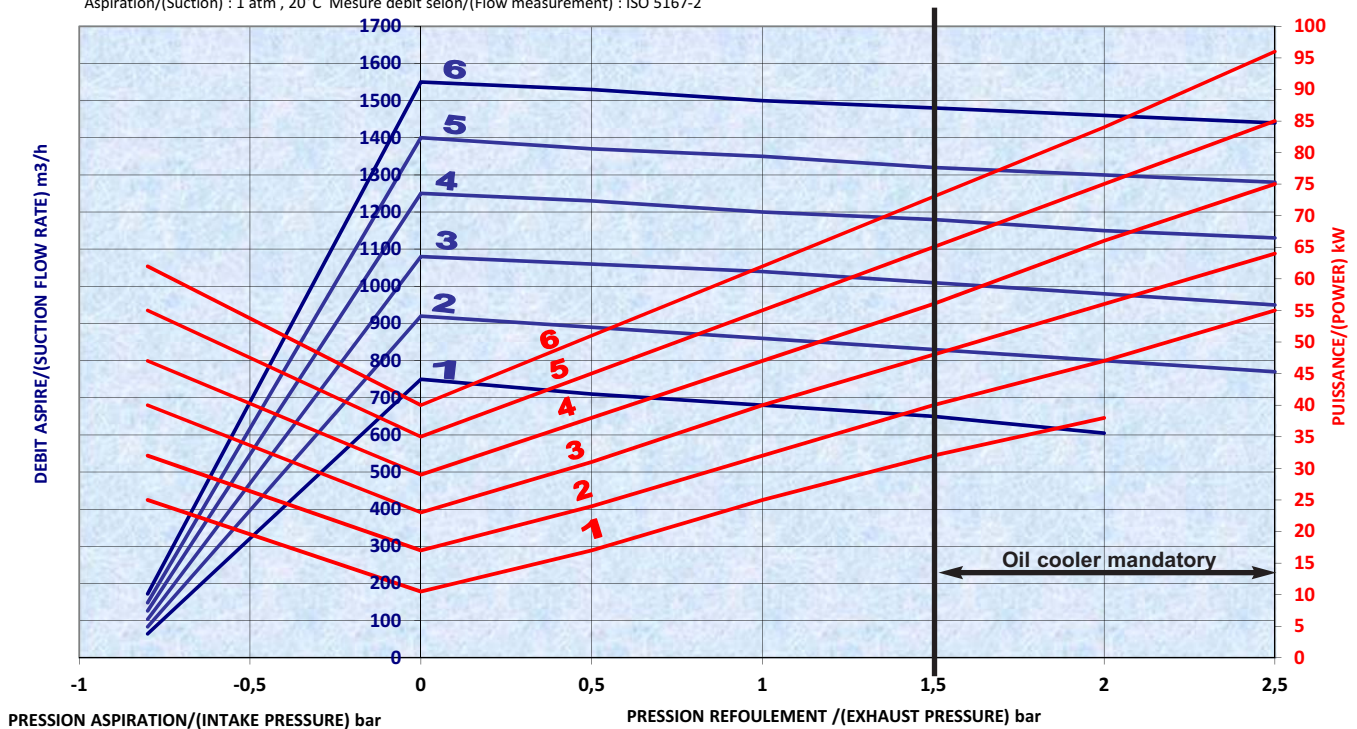
Vacuum operation :

The maximum vacuum authorised for the intake of the compressor is -8 bar, since the exhaust is into the atmosphere. Pressure less than 0,3 bar at the discharge of the compressor A vacuum breaker must be installed on the suction circuit in order not to exceed -0,8 bar at the compressor inlet flange.

The clogging indicator is red during the closed intake operation. This is normal : after a vacuum operation, the clogging indicator must be released so it becomes transparent again.

Characteristics of bare shaft end compressor and direct drive package :

Aspiration/(Suction) : 1 atm , 20°C Mesure débit selon/(Flow measurement) : ISO 5167-2



2. GENERAL DATA (continued)

REMINDER :

THE CLOGGING INDICATOR MUST NOT BE RED WHEN THE COMPRESSOR IS IN PRESSURE OPERATION.

CAUTION

When the compressor is used in vacuum operation, the temperature of the air that escapes from the exhaust to the atmosphere may be more than 200°C. Make sure that the flow of hot air does not cause any damage to the surrounding elements. If necessary, provide for protections that prevent operators from touching the hot parts.

The maximum acceptable temperature at suction as a function of equipment operating conditions is given in the § TECHNICAL CHARACTERISTICS.

2.3.2 CONDITIONS AT DISCHARGE

The B1500 compressor must be protected by a valve that protects the compressor against accidental over-pressure.

See Instructions 1401-E00 SCREW COMPRESSORS CHECK AND RELIEF VALVE.

Maximum acceptable discharge pressure : see § TECHNICAL CHARACTERISTICS.

The pressures correspond to the valve opening start pressure. In a period of 60 seconds, it is acceptable to have a pressure of 0,2 bar higher when the valve passes the complete flow rate.

2.3.3 RECOMMENDED DRIVE CONDITIONS

Operating torque at full speed (Nm)

B1500	Pressure (bar)		
	1,5	2,0	2,5
19R	370	420	480
20R	350	400	460
22L	320	360	420
30R	230	270	310

The transmission lines (universal joint, pulley belt, etc.) must be sized so as to be able to accept the loads above and also the starting torque and protected by an appropriated system.

Direct drives must be protected by a set torque limiter (see Instructions 1401-B00 TORQUE LIMITER - SCREW COMPRESSORS).

It is the responsibility of the designers of other packages to check that their design protects the transmission (and in particular the universal joint on the truck) if the compressor blocks.

In any case where the compressors are to be driven by diesel motor, the system must be able to disengage the compressor at equipment start up and stop.

It is imperative that the drive shafts be dynamically balanced.

CAUTION

The non balancing of the drive shafts can lead to mechanical ruptures that are susceptible of causing important property damage and/or serious injuries.

The shafts of the motors driving the B1500 compressors must be aligned within one angle degree on the B1500 shaft.

In the case universal joint drive, the motor and compressor side shafts must be parallel within one degree. The universal joint plates must be parallel within one degree. Specific installation conditions : See Instructions 1401-Q00 DDK BARE SHAFT END FOR TRUCK INSTALLATION - § PTO SHAFT DRIVE.

CAUTION

Not following assembly instruction can lead to mechanical ruptures that may create major property damage and/or serious injuries.

2.3.4 ACCEPTABLE OIL PRESSURE RANGE

The oil pressure is measured at the tap point located on the synchromesh gear box (item G on the outline drawings) :

B1500	Mini pressure (bar)	Maxi pressure (bar)
20R	0,5	3
30R	0,5	4
19R 22L	0,5	4

CAUTION

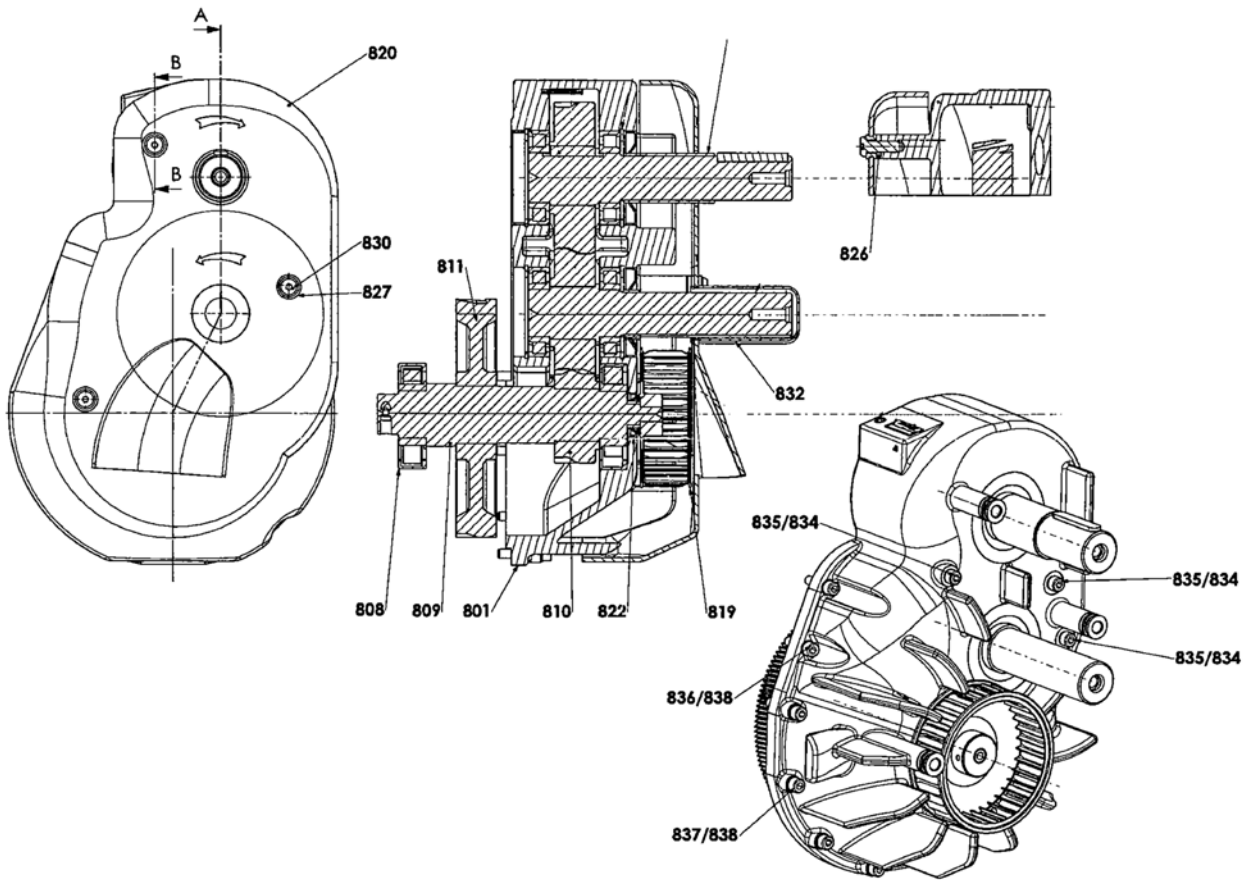
In operation, the surface temperature of a compressor and parts close to him may reach high temperatures liable to cause significant burns and inflammation of materials.

CAUTION

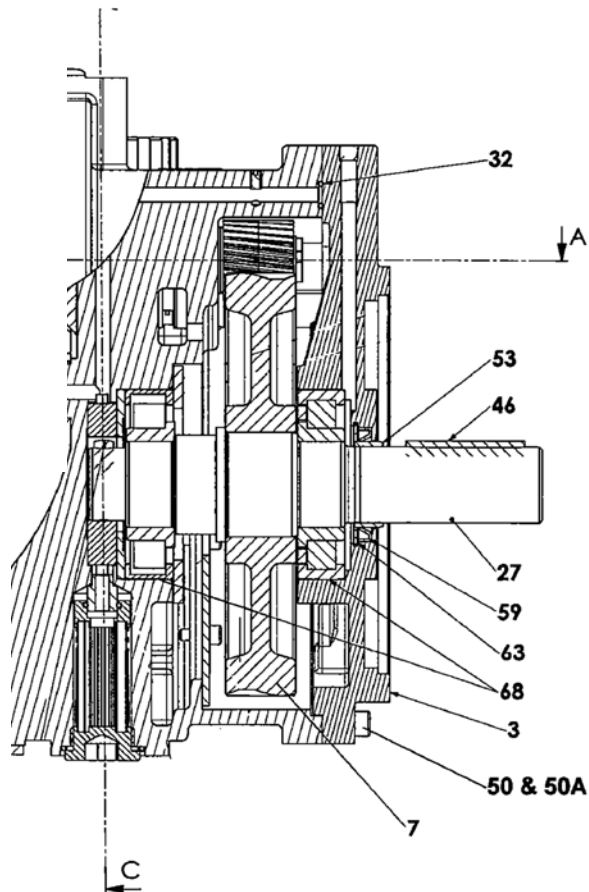
Having the compressor run above its maximal temperature may lead to serious body injuries or property damages.

3. MULTIPLIER 19R/22L

3.1 Cross-section



Front view of compressor



3. MULTIPLIER 19R/22L (continued)

3.2 Multiplier mounting

WARNING

Bold references return to marker numbers cross-sections at the end of the assembly procedure.

Belt pulley packages may not use a multiplier.

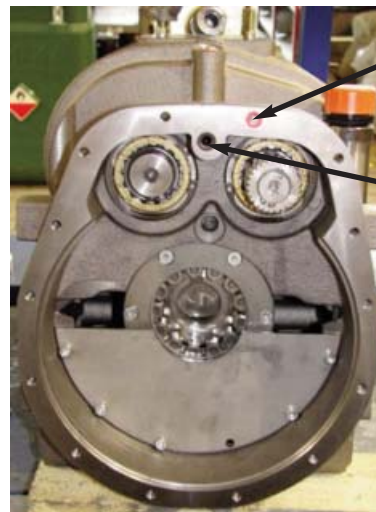
To mount a multiplier 19R/22L on a compressor N30R, the following sequence of operations must be respected :

- When the multiplier and the group made up of the shaft **809** with its gears **810** and **811** and inner bearing rings **808** are delivered separately from the compressor, the screws **830**, **835**, **836** and **837**, the washers **838**, the washers **827** and **834**, cover **830+832**, lipseal **822**, the fan and its screw **819**, as well as the group made up of the inner ring of the 2 bearings **808**, gears **811** and **810** and shaft **809** are delivered packaged separately. Remove the key **46** and the spacer **831** from the from the drive shaft before starting to assemble.
- Prepare the compressor N20R or N30R from MOUVEX :
 - Drain the compressor oil.
 - Install the compressor as shown in the photo below, its body sloping at least 30°.



- If necessary, remove the torque limiter.
- Remove the key **46**.
- Remove the screws **50** and the washers **50 A** holding the lid in place **3**.
- Remove the lid **3** and the seal **59**. The shaft will be held in place as the compressor slopes. If necessary, use 2 screws M10 to extract the lid.
- Remove from a block the shaft **27**, ring **53**, circlips **63**, gear **7**, a complete roller bearing **68**, the inner ring of the second roller bearing **68**. If necessary, use the tapings M8 found top right and bottom left of the lid to extract the lid.
- Scrape the Loctite® 510* remaining on the joint surface on the compressor side **1**.

- Check that the seal **32** is in place on the compressor body. If necessary, hold it in place using a little grease.



Headless screw **839** mounted with Loctite® 510*

Be careful to the seal **32** (keep it in place)

The multiplier may be handled using a lifting ring in the thread M10 in the multiplier.

- Mount the multiplier on the compressor :
 - Mount the headless screw **839**.
 - To mount the shaft, in particular in the oil pump, align the oil pump drive recess on the high vertical.
 - Firstly, mount in the compressor the group made up of the shaft **809** fitted with its gears **810** and **811** and the inner bearing rings **808**. Make sure you engage the shaft pin in the recess of the oil pump **809**. Engage at the end the inner bearing cage **808**, screwed to the shaft, in the bearing **808** inside the compressor.

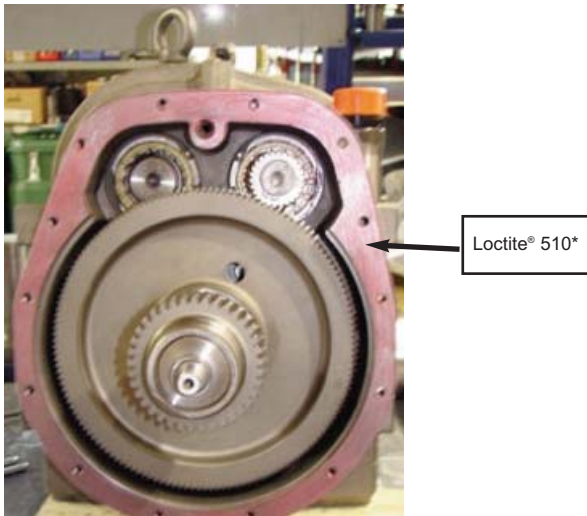


- Push the outer cage and the roller of the bearing **808** still in the multiplier to the end.

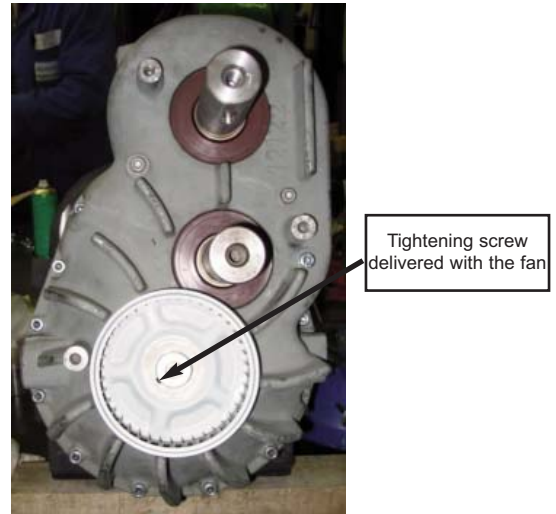
* Loctite® is a registered trademark.

3. MULTIPLIER 19R/22L (continued)

- Coat the surface for contact between the body and the multiplier with Loctite® 510*.



- Mount the fan **819** and screw up the relevant screw to screw it to the shaft **809**. NB the fan wings can cut ; use suitable protection. Wipe off the excess Loctite®*.



- Grease the lip joint **822**.
- Centre the shaft **809** in the bearing **808** and engage the lip joint **822**, and, in the same movement, engage the centring between the compressor and the multiplier.
- Place Loctite® 243* on the short screws **836** and washers **838** keeping the body of the multiplier in place **801**. Screw at torque $24 \text{ Nm} \pm 10\%$. Start screwing with the 2 opposite screws, screwed gradually, ckecking that the multiplier drive shafts can rotate freely.



- On the cover **820**, check the presence of spacers **826** in the sleeves **827**.
- If necessary, depending on the drive shaft, change the shaft position protector **832**.
- Put the cover **820** in place.
- Place Loctite® 243* on the screws **830** through the sleeve **827** and the spacer **826** to hold the cover **820** in place. Screw at torque $24 \text{ Nm} \pm 10\%$.
- Engage the spacer **831** on the multiplier drive shaft.
- Mount the key.
- If necessary, replace the torque limiter.

- Place Loctite® 243* on the screws **837** and washers **838** keeping the body of the multiplier in place **801**. Screw at torque $24 \text{ Nm} \pm 10\%$. Check that the multiplier drive shafts rotate freely.
- Place Loctite® 243* on the screws **835** and rings BS **834** keeping the lid in place **3**. Screw at torque $24 \text{ Nm} \pm 10\%$.
- Unscrew the screw holding the fan in place **819**. Inject a drop of Loctite® 243*. Replace the screw.

* Loctite® is a registered trademark.

4. USE OF COMPRESSOR

The operator should remain nearby the equipment throughout the use to ensure the proper functioning of the system.

4.1 Lubricant recommendations

MOUVEX BSC3 oil is recommended for 20R and 30R configuration, whereas it is imperative for 19R/22L.

A start up oil change has to be made after one week or 10 working hours. Not performing this oil change will void the warranty.

For the first week or 10 working hours, you can choose a standard mineral oil. The standard mineral oil grade will be selected according to the ambient temperature under which the compressor will be operated :

- Below -10°C. SAE 10 W 40
- Between -10°C and 30°C . . . SAE 15 W 40
- Above 30°C SAE 15 W 50

With BSC3 oil, oil change is recommended every year or 600 working hours that the compressor is equipped with or without a multiplier.

The use of the oil BSC3 carries our guarantee from 2 years to 3 years.

CAUTION

In case of operations done **under minus 25°C**, BSC3 oil viscosity sharply increases and can generate starting troubles. It will be necessary, in that case, to preheat the compressor body.

It is also allowed to use oil SAE 5W40 temporarily allowing to tolerate -35°C.

That implies the following constraints :

- Oil must be replaced every 100 operating hours.
- Imperative return to the BSC3 when the temperature becomes again positive.

Oils BSC and SAE are miscible; the passage of the one with the other thus does not imply particular procedure of cleaning.

CAUTION

The compressor MUST be fitted with the oil cooler (see Instructions 1401-AC00 OIL COOLER SCREW COMPRESSORS MISTRAL TYPHON II B600 B1500) when used at a pressure higher than 1,5 bar.

4.2 Filling of lubricant

CAUTION

Our packages are delivered without oil. The use of a compressor with an oil level that is not located between the two limits indicated by the gauge can lead to important property damage and serious injuries.

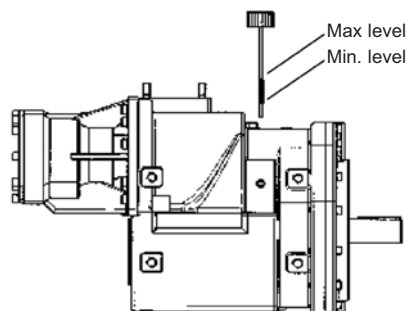
The quantity of oil for each compressor is approximately :

- B1500 20R - 30R. **6,8 l**
- B1500 19R - 22L **7,8 l**

Before starting the system, fill the casing with oil so that the oil level is set between the min and max value of the gauge.

NB : A residual volume of 0,5 l of oil may be present inside the compressor when it leaves the factory.

After filling, the level must under no circumstances exceed the maximum marker on the oil gauge (the level is taken after the gauge has been completely screwed onto the filling tube).



4. USE OF COMPRESSOR (continued)

4.3 Operation

- The compressor must be started with the discharge valves open.
- When it is started for the first time, check the compressor rotation direction. Also check rotation speed (refer to § TECHNICAL CHARACTERISTICS).
- The compressor shall be stopped without any counterpressure at discharge.
- At the first start, check that the combinations of rotation speed and discharge pressure of the compressors are in conformity with those indicated in § TECHNICAL CHARACTERISTICS.

⚠ CAUTION

Before any equipment startup, it is necessary to check the coherency between the motor rotation direction and the compressor operating direction. A startup with rotation in the wrong direction will lead to irreversible property damage on the compressors that is not covered by the guarantee.

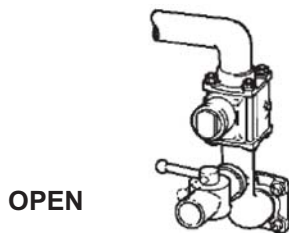
⚠ CAUTION

During operation, the temperature of the surface of a compressor and nearby parts can be in the region of 200°C. The compressor and the parts located nearby are thus susceptible of provoking serious burns and property damage. Be careful to not approach elements that are sensitive to heat and affix plates informing users that the compressor is hot, to prevent any risk of burns.

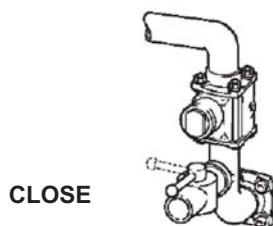
4.4 Starting-up

BEFORE starting compressor, open all air valves necessary to vent the tank and compressor to atmosphere.

Verify there is no possibility of operating at pressure before compressor reaches correct speed.



Close all valves and proceed to pressurize the tank and discharge the cargo.



4.4.1 Start-up procedure for manual gear box

- Start the engine and run with standard speed.
- Depress clutch and engage the PTO.
- Release the clutch SLOWLY.
- Set engine speed to give the correct compressor speed.



4.4.2 Shutting down procedure for manual gear box

- Depress the clutch and disengage the PTO.



- Reduce engine speed to idle.

⚠ CAUTION

ALWAYS DISENGAGE THE DRIVE BEFORE SLOWING ENGINE DOWN.

- Release the clutch.



NOTICE :
COMPRESSOR MUST OPERATE AT FIXED SPEED WITHIN THE COMPRESSOR MODEL SPEED LIMITS. SPEED MUST REMAIN CONSTANT THROUGHOUT THE OFF LOADING OPERATION.

5. MAINTENANCE

5.1 Maintenance schedules

After every cleaning of the truck

Always run the compressor for 15 minutes to remove any water that inadvertently gets into the piping. DO NOT fog or introduce anti-corrosive liquids into the compressor to prevent corrosion : Use of liquids in the compressor will cause failure.

After first 10 hours or first week operating

Change the compressor oil and clean the magnetic plugs.

According to the prescriptions of § LUBRICANT RECOMMENDATIONS.

Change the compressor oil and clean the magnetic plugs.

Weekly

The compressor should be run for at least 15 minutes to prevent moisture from collecting inside. This will reduce the risk of corrosion damage to the compressor and other equipment in the piping.

Clean the outer surfaces and the compressor cooling wings, and the multiplier inlet grille. Inspect DAILY if operating in dirty or severe environment. Check the condition of the inlet filter hose for splits and tears. Replace or repair as necessary.

Inspect compressor, system piping and components. Clean or repair as necessary.

Monthly

Check oil level, add the necessary volume if necessary. Check for cleanliness the breather inside the oil gauge, clean with an air blower if necessary.



THE BLOWING OF OIL GAUGE CAN CAUSE PERSONNAL INJURY OR PROPERTY DAMMAGE. IT IS MANDATORY TO CARRY APPROPRIATE PROTECTIONS (GLOVES, GLASSES...) TO AVOID RISKS OF PERSONNAL INJURY.



5.2 Compressor oil change procedure

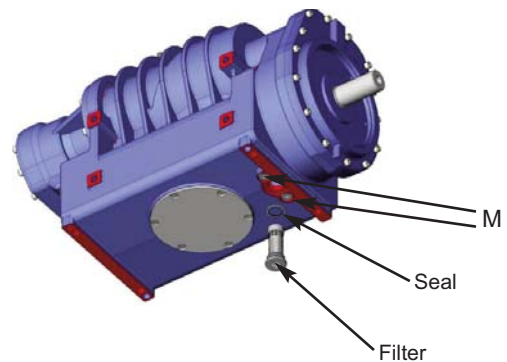
Oil gauge : See § LUBRICANT RECOMMENDATIONS.

Unscrew and remove the oil filter with its seal (marked C on the outlines drawings). Drip-drain all the oil contained in the casing.

Carefully clean the oil filter with solvent. Blow out all impurities with a compressed air blast.

Clean the magnetic plugs (marked M on the outlines drawings).

After checking that no particles remain in the filter, reinstall it making sure that the seal is in good condition. Fill the compressor. See § FILLING OF LUBRICANT.



5.3 Troubleshooting

See Instructions 1401-Q00 DDK BARE SHAFT END FOR TRUCK INSTALLATION - § TROUBLESHOOTING.