



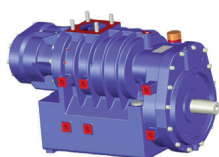
Instructions 1401-G00 (En)

Section	1401
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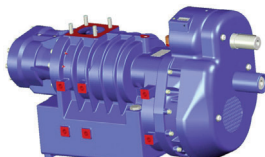
Original instructions

TYPHON II SCREW COMPRESSORS

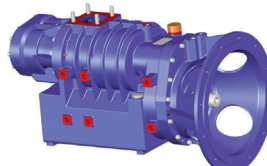
20R/30R



13R/15L - 19R22L



20R/30R SAE4



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.

WARRANTY :

TYPHON II screw compressors are covered 24 months by warranty within the limits mentioned in our General Sales Conditions. The use of the BSC3 oil carries our warranty from 24 to 36 months. In case of a use other than that mentioned in the Instructions manual, and without preliminary agreement of MOUVEX, warranty will be canceled.

Warranty extension with oil BSC3 : See Instructions 1401-Q00 DDK BARE SHAFT END FOR TRUCK INSTALLATION - § WARRANTY.



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Your distributor :

MOUVEX TRUCK SCREW COMPRESSOR

SAFETY, OPERATION AND MAINTENANCE INSTRUCTIONS

MODEL : TYPHON II

Definition of safety symbols



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.



DANGER

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



WARNING

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



CAUTION

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

NOTICE

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

TABLE OF CONTENTS

Page

1. GENERAL DATA	4
1.1 Principle of operation	4
1.2 Technical characteristics	5
1.3 Operating ranges	5
2. MULTIPLIER 13R/15L - 19R/22L	8
2.1 Cross-section	8
2.2 Multiplier mounting	9
3. USE OF COMPRESSOR	11
3.1 Lubricant recommendations	11
3.2 Filling of lubricant	11
3.3 Operation	12
3.4 Starting-up	12
4. MAINTENANCE	13
4.1 Maintenance schedules	13
4.2 Compressor oil change procedure	13
4.3 Troubleshooting	13
4.4 Warranty	13
5. OVERALL DIMENSIONS	14

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.

ADDITIONAL DOCUMENTATION

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

TYPHON II application	Instructions	Spare parts list
20R/30R - SAE	NT 1401-Q00	PL 1401-Q02
13R/15L - 19R/22L	NT 1401-Q00	PL 1401-Q01
DDIC - DDNC	NT 1401-R00	PL 1401-R01
LS DDNC	NT 1401-W00	PL 1401-W01
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
Air cooler	NT 1401-AJ00	-

SAFETY DATA

 WARNING	
	
<p>Hazardous machinery can cause severe personal injury or property damage.</p>	<p>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.</p>
 WARNING	
	
<p>Hazardous fluids can cause fire, serious personal injury or property damage.</p>	<p>COMPRESSING GASES INTO A VESSEL CONTAINING FLAMMABLE OR EXPLOSIVE GASES OR COMPRESSING FLAMMABLE OR EXPLOSIVE GASES, CAN CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.</p>
 WARNING	
	
<p>Hazardous pressure can cause personal injury or property damage.</p>	<p>FAILURE TO INSTALL ADEQUATELY SIZED PRESSURE RELIEF VALVE(S) CAN CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.</p>
 CAUTION	
	
<p>Extreme heat can cause injury or property damage.</p>	<p>COMPRESSOR, PIPING AND ACCESSORIES WILL BECOME HOT DURING OPERATION AND CAN CAUSE SERIOUS PERSONAL INJURY.</p>
 WARNING	
	
<p>Hazardous or toxic fluids can cause serious injury.</p>	<p>CONTENTS OF THE COMPRESSOR, TANK, PIPING, AND FILTERS COULD BE HAZARDOUS TO HEALTH. TAKE ALL NECESSARY PRECAUTIONS WHEN PERFORMING COMPRESSOR SERVICE OR MAINTENANCE.</p>
 WARNING	
	
<p>A loud noise can cause permanent body damage.</p>	<p>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.</p>

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.
3. Gas/air mixtures which are potentially volatile/explosive must not be introduced or allowed to be introduced into the compressor.
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.
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 :

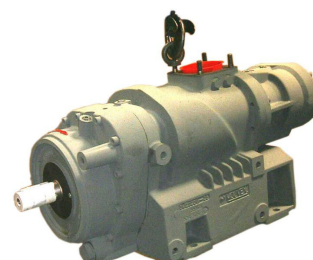
MOUVEX COMPRESSORS ARE DESIGNED TO PRODUCE COMPRESSED AIR. NOT TO PUMP GASES, LIQUIDS, POWDERS OR CONDENSATES THOUGH THE COMPRESSOR. TO DO SO WOULD VOID THE WARRANTY.

LIFTING POINTS :

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

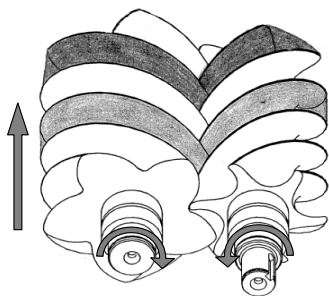


Discharge flanges threads can be used to install a lifting lug in order to transport the compressor.



1. GENERAL DATA

1.1 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 labyrinth seals. These seals do not enter in contact with the shaft and are not subject to wear.

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

TYPHON II compressors need very limited maintenance, which reduce vehicle downtime.

TYPHON II version 20R, 13R/15L and 19R/22L drive speed were defined so as to drive it directly through universal joints from a P.T.O. shaft. TYPHON II compressor is therefore fitted within the chassis. Thanks to this system, the installation is lighter and saves space on the side of the vehicle for other accessories.

TYPHON II version 30R can be directly driven by an electric or hydraulic motor, and can be driven by a diesel motor.

The 20R and 30R versions may be fitted with a SAE4 flange so that they can be mounted on diesel engines.



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.

1. GENERAL DATA (continued)

1.2 Technical characteristics

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

TYPHON II	1	2	3	4	5
Speed (rpm) :					
13R	780	910	1040	1170	1300
15L	900	1050	1200	1350	1500
19R	1170	1365	1560	1755	1950
20R	1200	1400	1600	1800	2000
22L	1320	1580	1800	2035	2250
30R	1800	2100	2400	2700	3000
Maximum discharge pressure (inlet suction air at 20°C)	2	2,3	2,5	2,5	2,5

1.3 Operating ranges

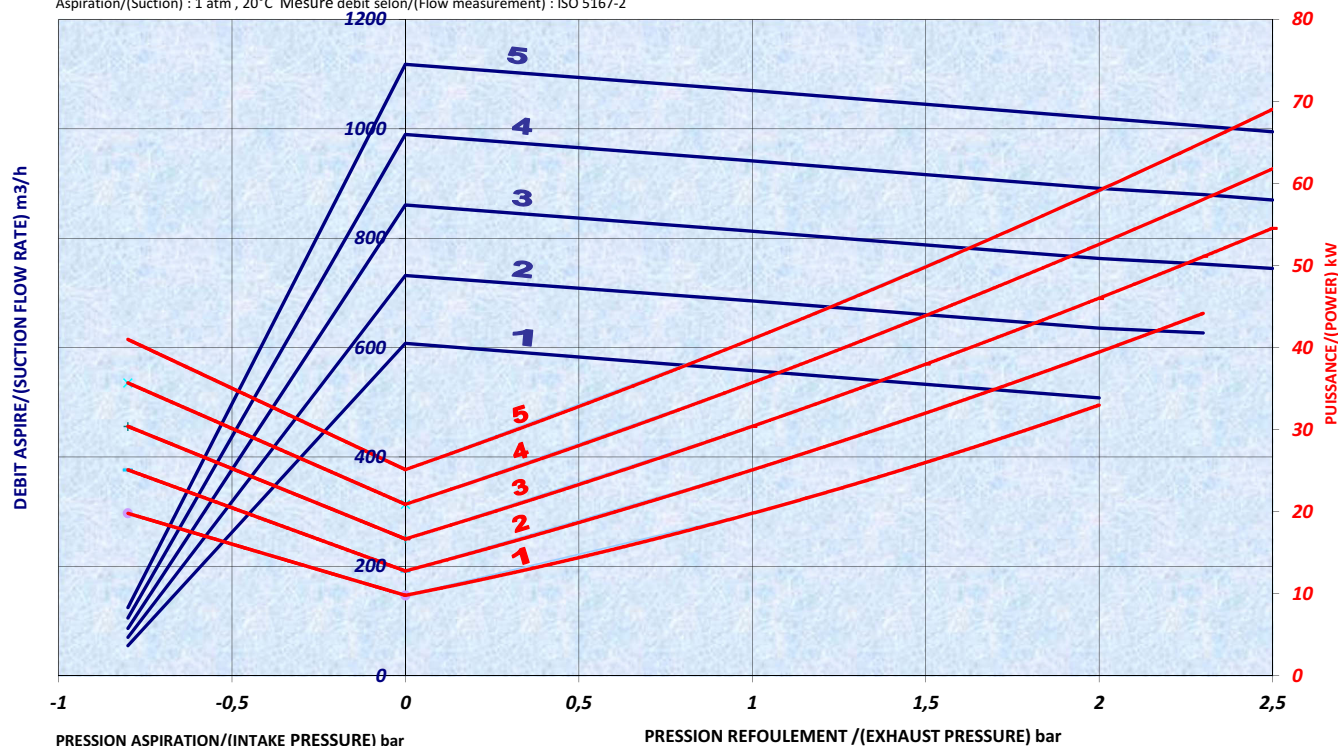
The operating ranges specified in the § TECHNICAL CHARACTERISTICS give the conditions that must be respected on mounting and packaging of the TYPHON II compressors, in order to be able to benefit from the guarantees for these pieces of equipment.



The use of compressors outside of their operating speed range can lead to property damage or serious injuries.

Characteristics of bare shaft end compressor and direct drive package :

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



1. GENERAL DATA (continued)

1.3.1 CONDITIONS AT SUCTION

Speed (rpm) :				
TYPHON II N-20R	1200	1600	1600	2000
TYPHON II N-30R	1800	2400	2400	3000
TYPHON II N-19R/22L, driving by shaft 22L	1320	1800	1800	2250
TYPHON II N-19R/22L, driving by shaft 19R	1170	1560	1560	1950
TYPHON II N-13R/15L, driving by shaft 15L	900	1200	1200	1500
TYPHON II N-13R/15L, driving by shaft 13R	780	1040	1040	1300
Discharge pressure of compressor (bar)	2,0	2,0	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.

Vaccum operation (SP version only) :

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 vaccum operation, the clogging indicator must be released so it becomes transparent again.

REMINDER :

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



CAUTION

When the compressor is used in vaccum 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.

1.3.2 CONDITIONS AT DISCHARGE

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

See Instructions 1401-E00 MISTRAL B600 TYPHON II 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.

1. GENERAL DATA (continued)

1.3.3 RECOMMENDED DRIVE CONDITIONS

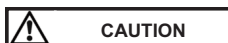
Our screw compressors can be the object of various modes of driving, it is however necessary to take care of the adapted protection systems. Thank you to respect the following recommendations imperatively.

Operating torque at full speed (Nm)

TYPHON II	Pressure (bar)		
	1,5	2,0	2,5
13R	370	430	510
15L	320	380	440
19R	250	300	350
20R	240	280	330
22L	220	260	300
30R	160	190	220

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.

It is imperative that the drive shafts be dynamically balanced.



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 TYPHON II compressors must be aligned within one angle degree on the TYPHON II 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.



Not following the alignment instructions can lead to mechanical ruptures that may create major property damage and/or serious injuries.

1.3.4 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) :

TYPHON II	Mini pressure (bar)	Maxi pressure (bar)
20R	0,5	3
30R	0,5	4
13R 15L	0,5	3
19R 22L	0,5	4



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.

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

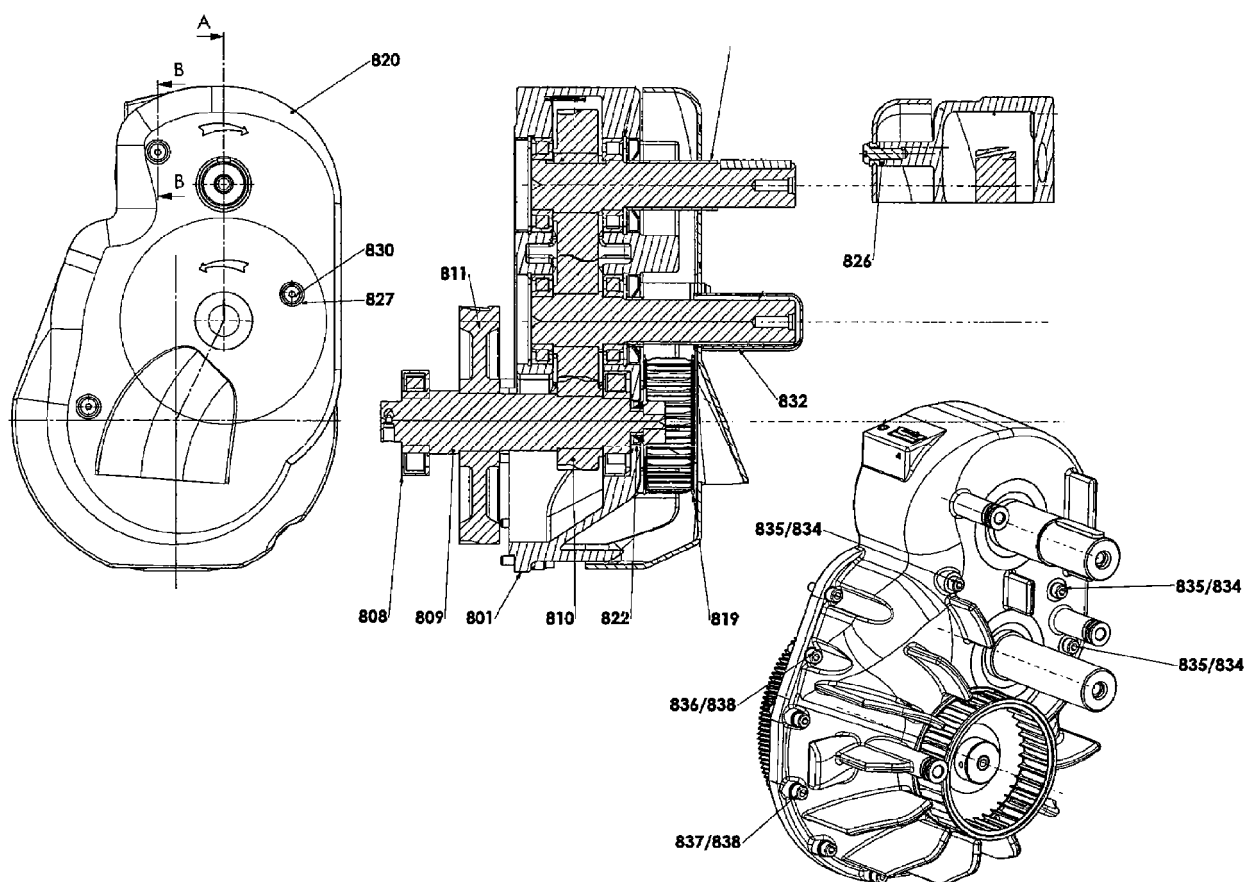
Recommendations

Driving mode	Torque limiter	Specific rubber coupling (1)	Comments
PTO + Cardan	Yes	No	
Electric motor, direct	No	No	Starting up Star / Triangle
Diesel engine, direct	Yes	Yes	With or without clutch
Pulley/notched belts (synchronous)	Yes	No	
Pulley/not notched belts (asynchronous)	No	No	

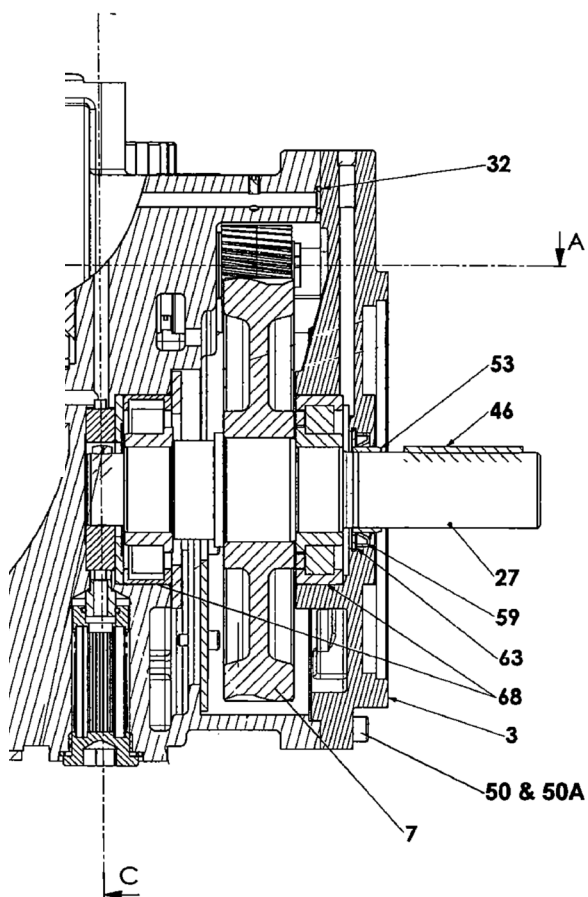
(1) Type STROMAG PERIFLEX VN must be defined case by case according to the power to transmit, the speed and type of engine. This device allows to filter the vibrations of the engine which in the long term can generates the rupture of the small pinion shaft of the compressor.

2. MULTIPLIER 13R/15L - 19R/22L

2.1 Cross-section



Front view of compressor



2. MULTIPLIER 13R/15L - 19R/22L (continued)

2.2 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 :

- * 13R/15L on a compressor N20R or
- * 19R/22L on a compressor N30R,

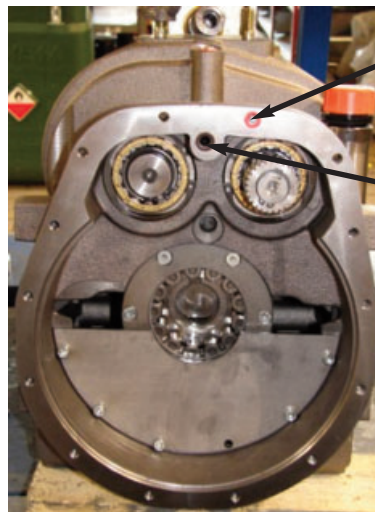
the following sequence of operations must be respected :

- 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 tappings 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.

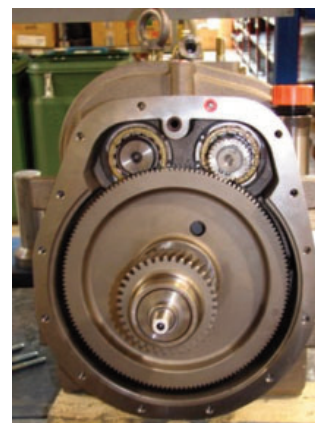


Headless screw **839**
mounted
with Loctite® 510*

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.

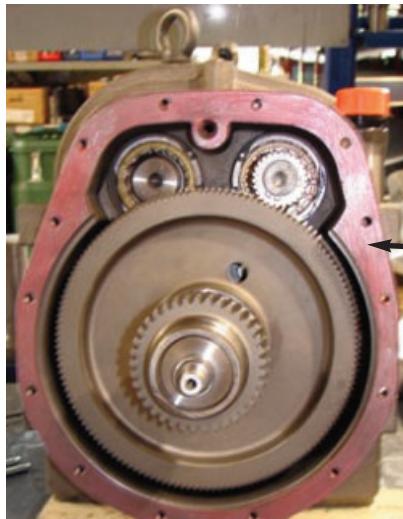


- Push the outer cage and the roller of the bearing **808** still in the multiplier to the end.

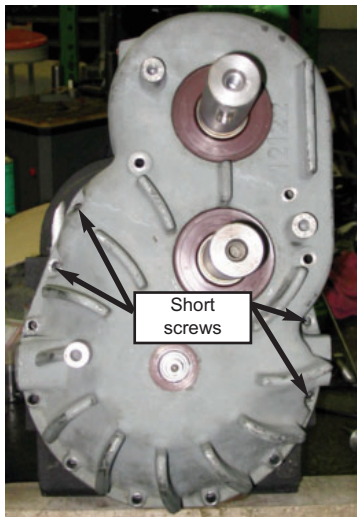
* Loctite® is a registered trademark.

2. MULTIPLIER 13R/15L - 19R/22L (continued)

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

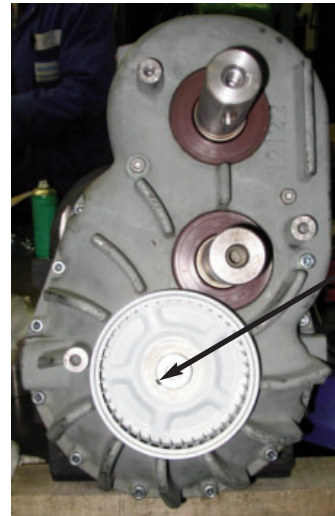


- Grease the lip joint **822**.
- Centre the shaft **809** in the bearing **808** and engage the lip joint **822**, and, in the same movement, engage the centring between the compressor and the multiplier.
- Place Loctite® 243* on the short screws **836** and washers **838** keeping the body of the multiplier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



- 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.

- 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®*.



- 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.

* Loctite® is a registered trademark.

3. USE OF COMPRESSOR

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

It is imperative to hold the hose in order to avoid whipping during pressurization.



WARNING: SEVERE PERSONAL INJURY OR PROPERTY DAMAGE CAN CAUSE FROM WHIPPING HOSES.

3.1 Lubricant recommendations

MOUVEX BSC3 oil is recommended for 20R and 30R configuration, whereas it is imperative for 13R/15L and 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.



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.

Compressors can be used with an external oil cooler in case of intensive applications (see Instructions 1401-AC00 OIL COOLER SCREW COMPRESSORS MISTRAL B600 TYPHON II).

3.2 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.

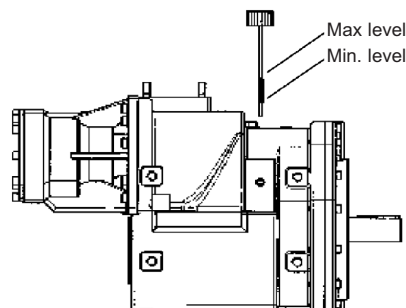
The quantity of oil for each compressor is approximately :

- TYPHON II 20R - 30R 6 l
- TYPHON II 13R/15L 7 l
- TYPHON II 19R/22L 7 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.

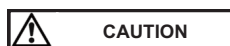
After filling, the level must under no circumstances exceed the maximum marker on the oil gauge (the level is taken after the gauge has been completely screwed onto the filling tube).



3. USE OF COMPRESSOR (continued)

3.3 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.



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.

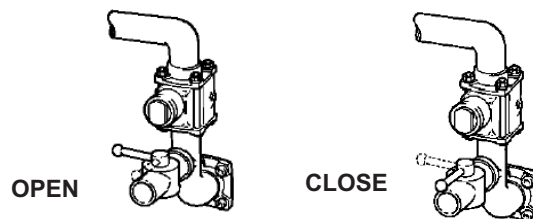
During operation, the temperature of the surface of a compressor and nearby parts can be in the region of 200°C. The compressor and the parts located nearby are thus susceptible of provoking serious burns and property damage. Be careful to not approach elements that are sensitive to heat and affix plates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

3.4 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.



3.4.1 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.



3.4.2 Shutting down procedure for manual gear box

- Depress the clutch and disengage the PTO.



- Reduce engine speed to idle.



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.

4. MAINTENANCE

4.1 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

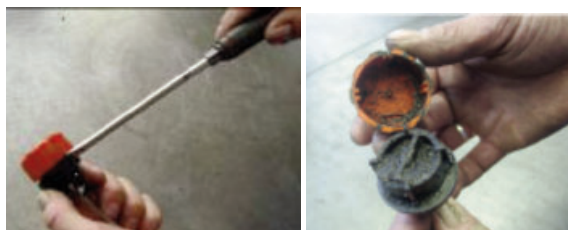
The compressor should be run for at least 15 minutes to prevent moisture from collecting inside. This will reduce the risk of corrosion damage to the compressor and other equipment in the piping.

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.

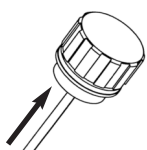
Monthly

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.



	CAUTION	
	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.	

Blowing



4.2 Compressor oil change procedure

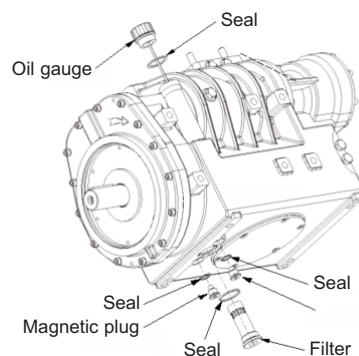
Oil gauge : See § LUBRICANT RECOMMENDATIONS.

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.



4.3 Troubleshooting

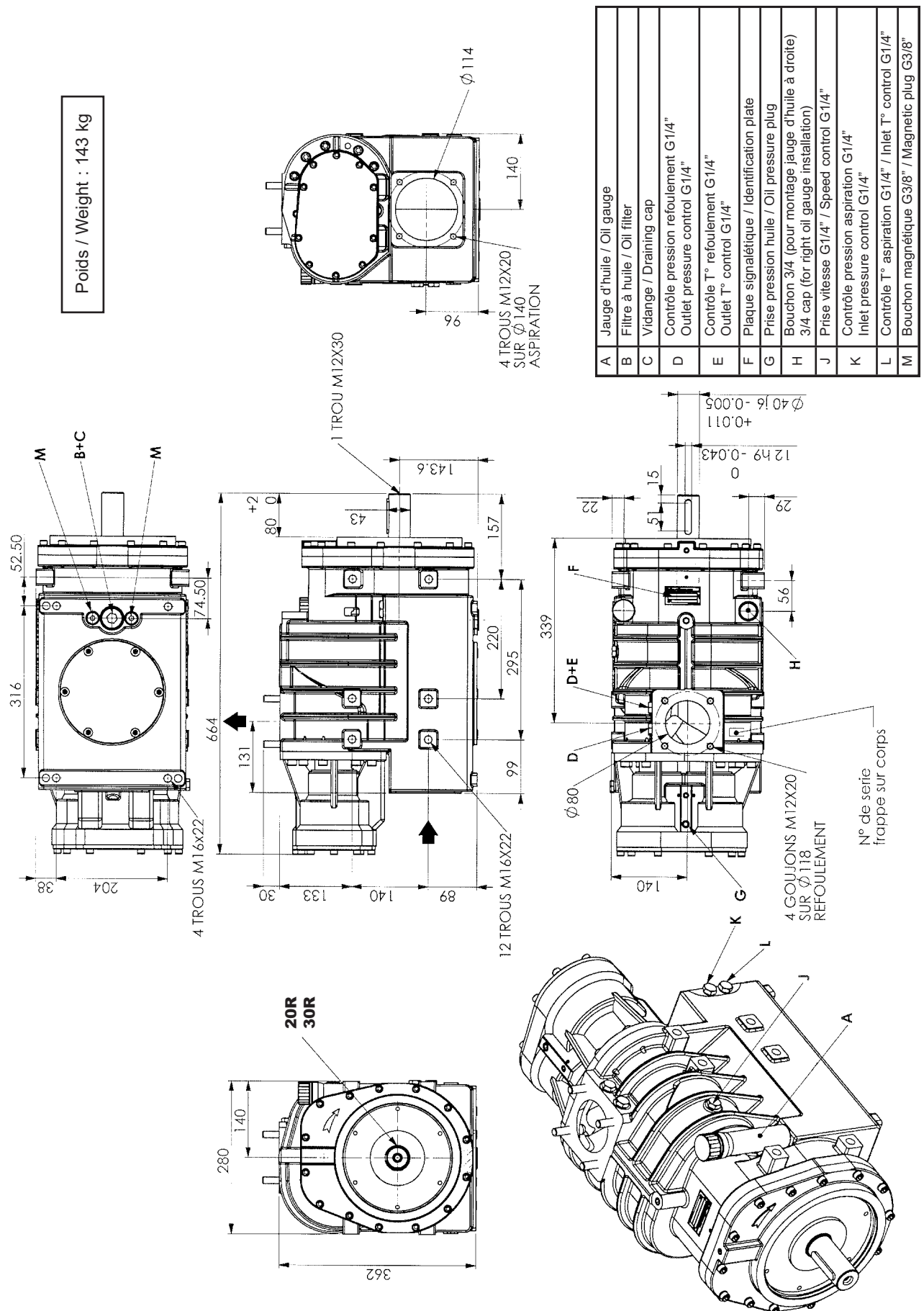
See Instructions 1401-Q00 DDK BARE SHAFT END FOR TRUCK INSTALLATION - § TROUBLESHOOTING.

4.4 Warranty

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

5. OVERALL DIMENSIONS

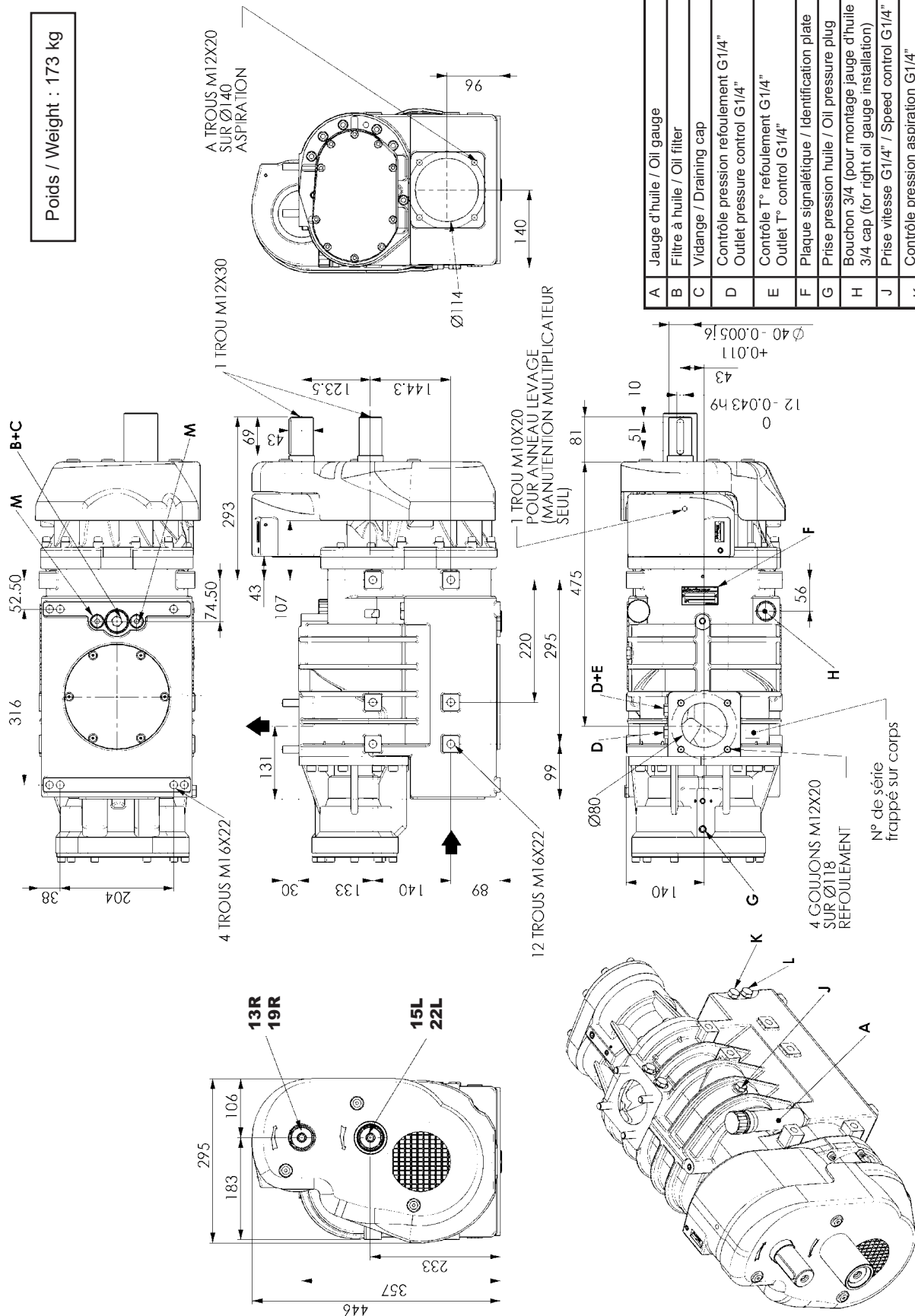
20R - 30R



5. OVERALL DIMENSIONS (continued)

13R/15L - 19R/22L

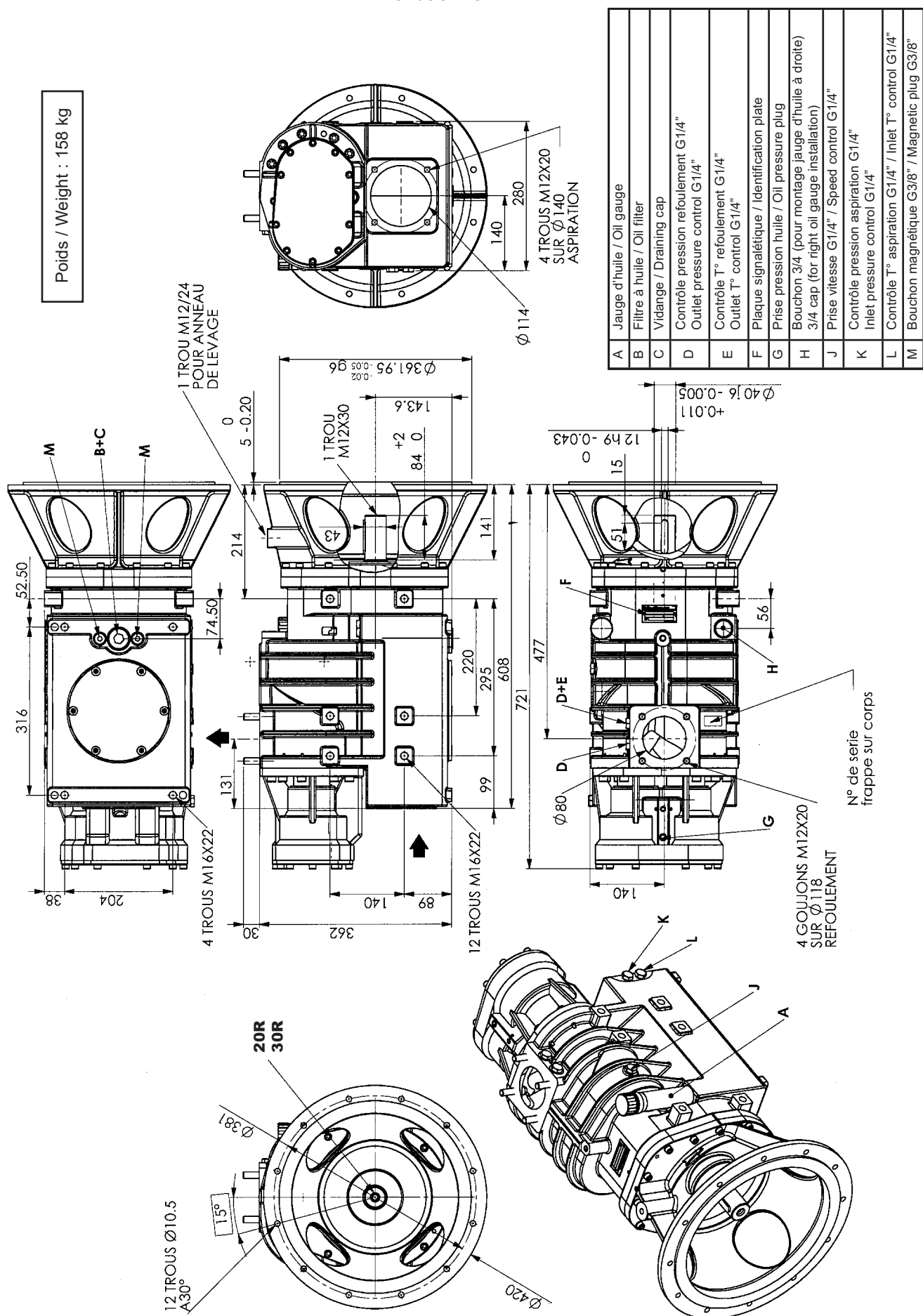
Poids / Weight : 173 kg



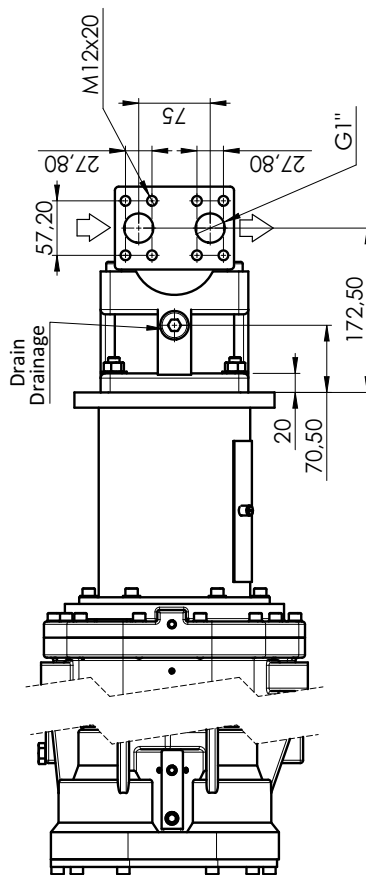
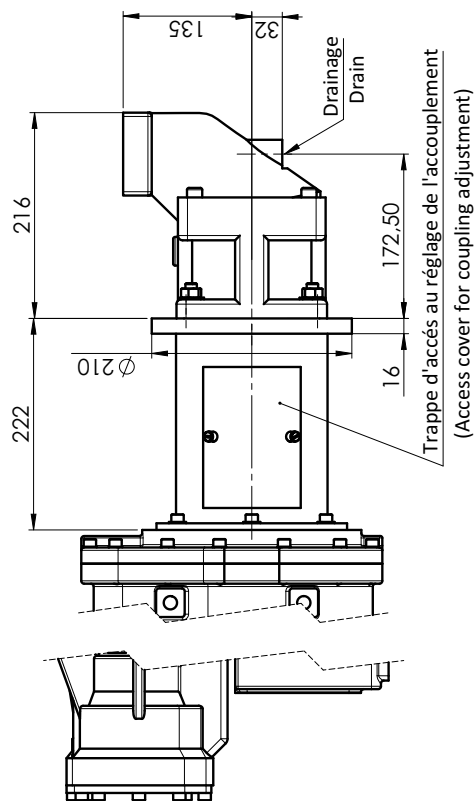
A	Jauge d'huile / Oil gauge
B	Filter à huile / Oil filter
C	Vidange / Draining cap
D	Contrôle pression refoulement G1/4" Outlet pressure control G1/4"
E	Contrôle T° refoulement G1/4" Outlet T° control G1/4"
F	Plaque signalétique / Identification plate
G	Prise pression huile / Oil pressure plug
H	Bouchon 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"

5. OVERALL DIMENSIONS (continued)

20R/30R SAE4



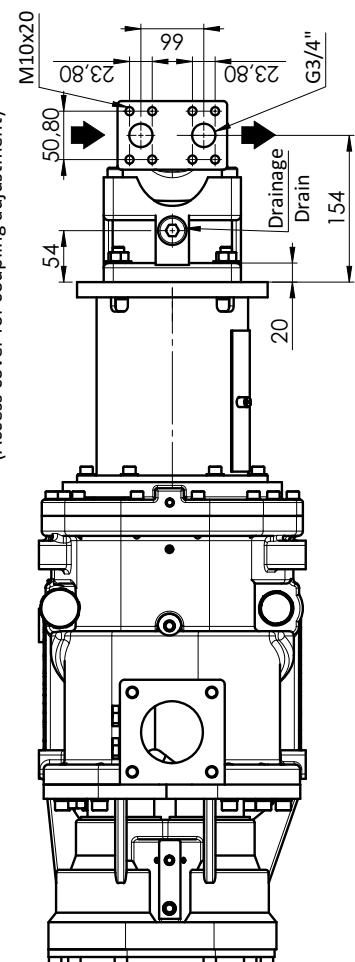
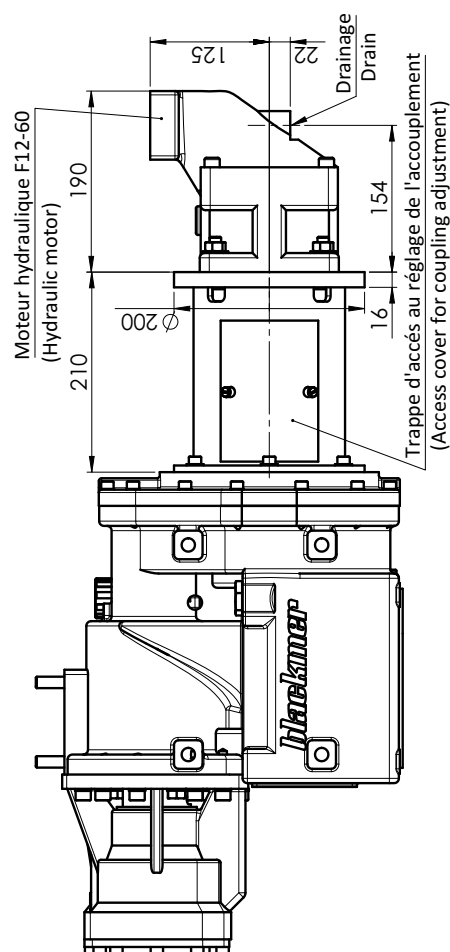
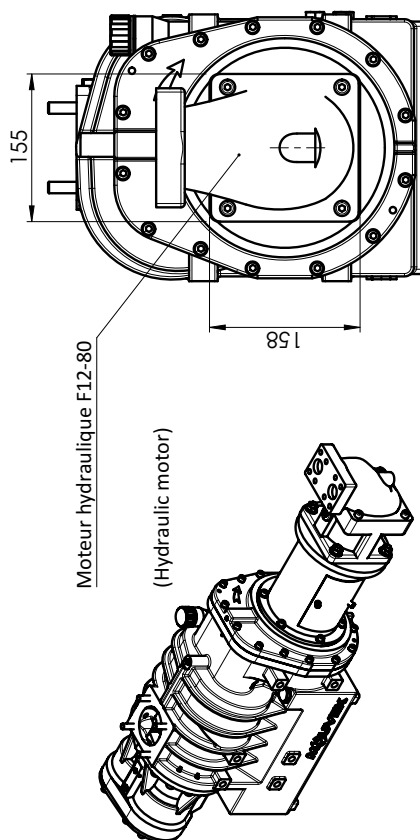
5. OVERALL DIMENSIONS (continued)



TYPHON II - Hydraulic kit

Masse hydraulic kit: 40Kg

COMMENTS OR DIMENSIONS IN BRACKETS ARE INDICATIVE
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN mm



MISTRAL / B600 -Hydraulic kit

Masse hydraulic kit: 35Kg