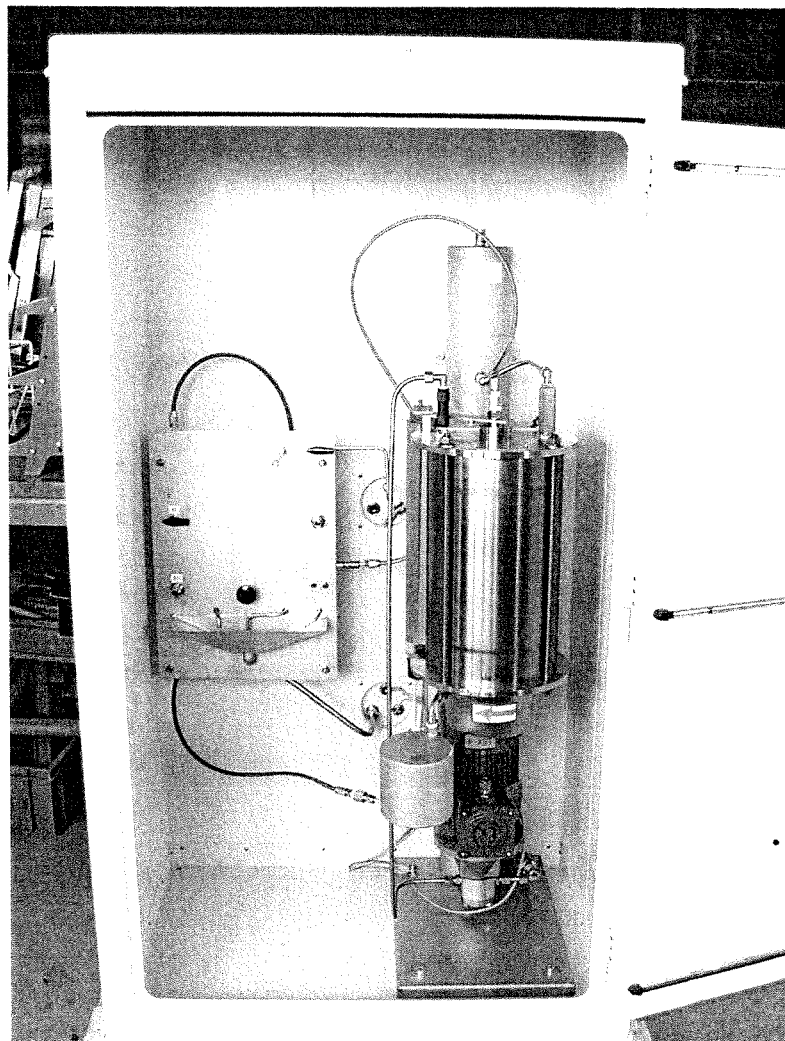


AUTOMATIC SAMPLER

"JISKOOT – FBF "

INSTRUCTION MANUAL of CABINET RECEIVER



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III - DESCRIPTION of the SYSTEM

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I - INTRODUCTION:

The electric cabinet receiver was developed for adaptation at output of the electric probe of automatic sampling JISKOOT Model 710 E or 210 E.

II - ADVANTAGES:

- Receiver sample equipped with stirrer in order to avoid any risk of stratification of the heavy fractions or the paraffin deposits.
- Receiver features a cylinder with piston compatible with split samples or high ambient temperatures.
- Level transmitter for sample collected in the receiver for feed-back.
- Sealing of the piston consolidated by double Teflon seal with atmospheric bleed of the inter-seals through the piston shaft .

III – SYSTEM DESCRIPTIVE :

1- JISKOOT SAMPLING PROBE Models 710E or 210E: refer to the handbook of installation of the probe.

Main characteristics:

- Entirely Electric System, Certified EExd IIB T4
- Power supply Feeding
 - sample probe 710E:380V-3Ph-50Hz-90W
 - sample probe 210EH:380V-3Ph-50Hz-750W
- Signal of activation: 110/220 V AC -20 W
- Volume of grab: 1 CC
- Repeatability of grab : +/- 2%
- Maximum grab frequency : 60 grabs/MN
- Sample temperature : 0 to 100°C.
- Flange connection : 2 " or 3 " , class 150 or 300 RF
- Wetted parts : Stainless Steel
- Other specifications and operation: To refer to the instruction manual.

2 - RECEIVER FBF:MODEL ISOSAMPLE 4100:

A - DESCRIPTIVE: refer to drawing ISOSAMPLE 4100 N° 01929 sheet 1

Receiver ISOSAMPLE 4100 consists of a cylinder with piston of capacity slightly higher than 10 L - rep.1- in stainless steel 316 L.

The piston is equipped with a double set of Teflon seals , the inter-seals cage being connected to the vent/drain by a boring trough the piston shaft . This outlet is connected to the drain by a Teflon / S.S. hose .

This device allows an absolute sealing between the sample chamber (lower chamber) and hydraulic chamber (higher chamber) of the receiver.

The hydraulic chamber is filled with oil whose function will be to ensure the motorization of the system by recycling through the pump – item 5 -.

The characteristics of the pump and the motor are indicated in the appendices section of this handbook.

An auxiliary tank – item 6 - allows the transfer of oil rejected by the hydraulic chamber.

The sample chamber is equipped with a stirrer driven by the external motor through a rotary transmission gland. The purpose of this stirrer will be to avoid any risk of stratification of the heavy fractions or the paraffin deposits subjected to be present in the sample.

Under option, the system is equipped with a level transmitter tied to the piston shaft for monitoring the level of sample collected in the receiver. The characteristics of this component are indicated in the appendices section of this handbook when it is provided.

This level transmitter is a potentiometer certified EEx ia IIC T6 by LCIE when connected to the Transformer Isolated Potentiometer Amplifier Type KHD2- PT2-Ex 1 from PEPPERL+FUCHS. This interface module to be located in safe area will convert Resistance to 4-20 MA or 0-10V signal.

For a 10 L capacitance receiver the length of the potentiometer is 350 MM and the total resistance is 10 Kohms.

The connecting cable must be complying with the above specifications :

- Minimum core area : 0.5 mm²
- Line resistance : 37.5 Ohms/Km
- Line capacitance : maximum 145 nF. / Km
- Inductance : 1 µH/Km
- Maximum cable length : 20 Km

The other components constitutive of the system are:

- the back Pressure Regulator item 8 whose function is to control the pressure in the sample chamber. The set pressure of this valve is a function of viscosity of the sample but generally between 2 and 3 Barsg. See characteristic of this component in the appendices section of this handbook.
- the non-return valve item 9 which prevents any slip with counter-current in the pump of the oil of the hydraulic chamber towards the auxiliary tank.
- the safety valve in by-pass of sampling – item 2 on schematic diagram plan: generally set to 3 Barsg it protects the probe from sampling in the event of sampling plug in the circuit by paraffin.
- the split filter : - to see illustration " Receiver Assembly "

This component has two functions :

- . To avoid the introductions of air or gas into the sample chamber of the receiver: for this purpose a plunger tube directly channels the liquid from bottom of filter to the receiver and a gas sky is formed in the filter.
- . To completely purge the lines during draining of receiver: the gas sky under pressure ejects the liquid towards the drain.

B - OPERATION:

With starting, the upper chamber of receiver (hydraulic chamber) is filled with oil and the piston in low position. The level transmitter is at 4 MA +/- 0.5 MA .

For each grab of 1 CC operated by the JISKOOT probe , the same volume of 1 CC is transferred from the hydraulic chamber towards the auxiliary tank – item .6- through the back pressure regulator item 8 having a set point at 2 or 3 barsg depending to the viscosity of the sample, the pressure at output of probe is thus kept constant.

The sample pressurized at this value in the chamber receiver is kept in liquid phase even for the extreme temperatures.

A volume of sample of 10 L, e.g. 10 000 grabs of 1 CC is programmed and the precision required by the Most Common International Standards is of +/- 10%, or 9 to 11 L of sample collected for 10 000 grabs .

Under option the level collected is transmitted to the Sampler Control Unit for feed-back and alarm during the sampling .

At the end of sampling , the pump/stirrer motor is switched-on by the operator before of sample collection.

During the sample stirring , the hydraulic oil is recycled under pressure of 2 or 3 barsg from the hydraulic chamber to the auxiliary tank.

At the end of stirring cycle , the 1L transportation cylinder is filled for lab. analysis .

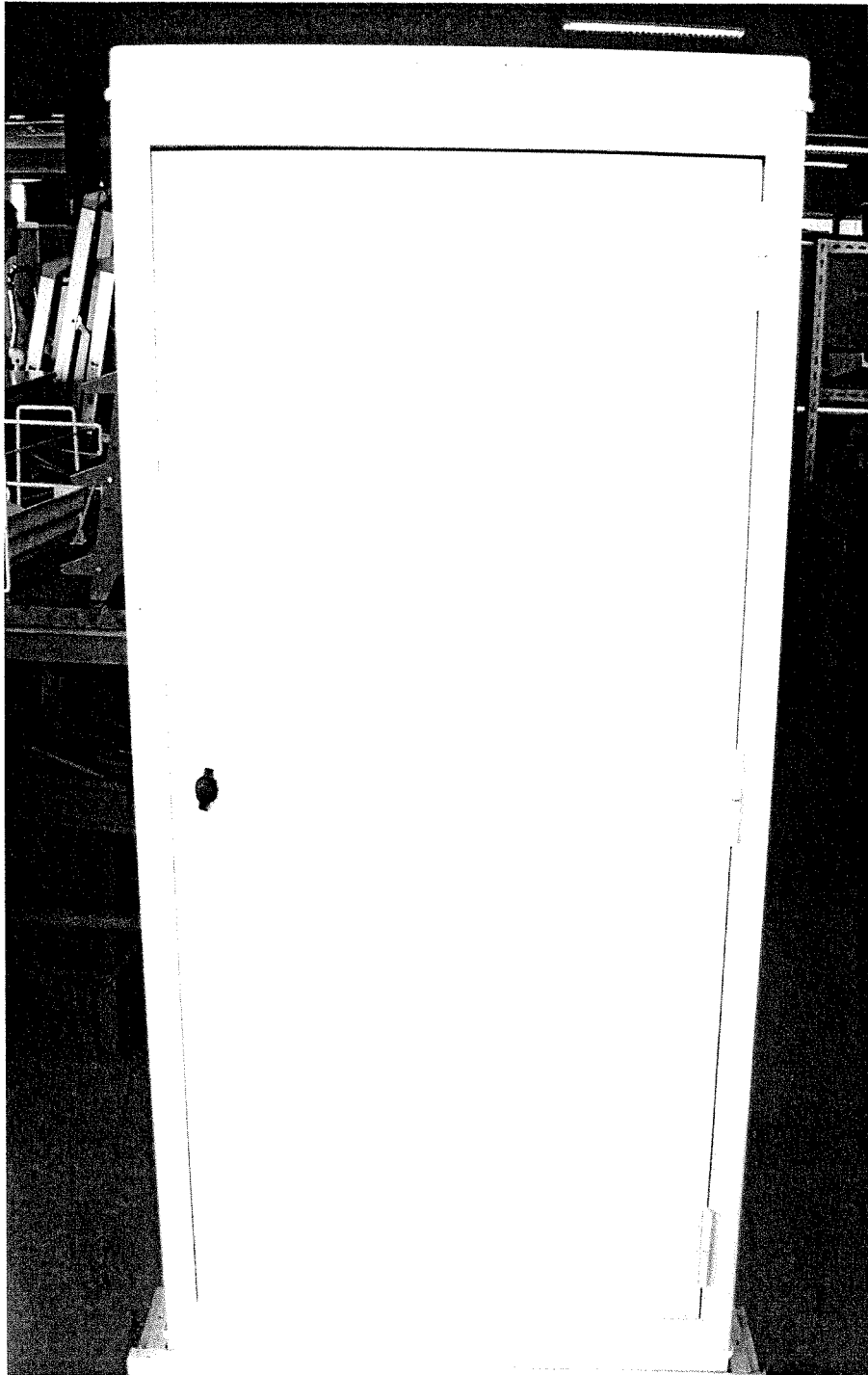
C- SPECIFICATIONS :

- . Full electrical system CENELEC certified EExd IIB T4
- . Level transmitter loop is intrinsically safe EExia II C T6
- . Power supply : 380 V 50 Hz – 250 W
- . Wetted parts : S.S. with Teflon seals
- . Operating pressure : 3 barsg constant – maximum : 4.8 barsg
- . Operating temperature : -10 to 80°C.
- . Total sample collection volume capacitance : This is approximately the total volume of receiver 10 .2 L + volume of filter 1L + volume of empty piping elements 0.2 L .

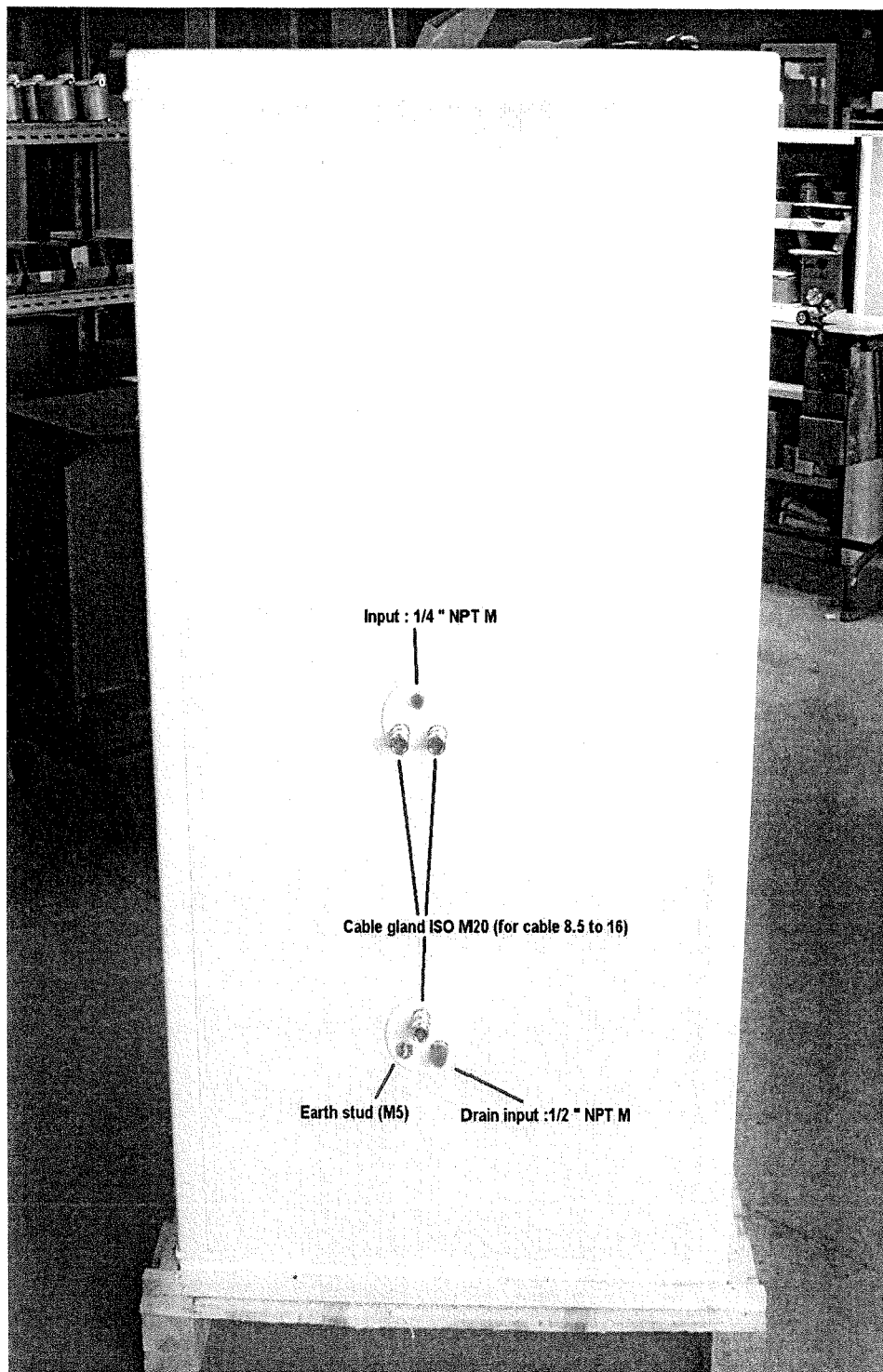
3 – SAMPLING CABINET :

The sampling cabinet is made of compound thermo-plastic allowing a high resistance against temperature variation and chemical agents

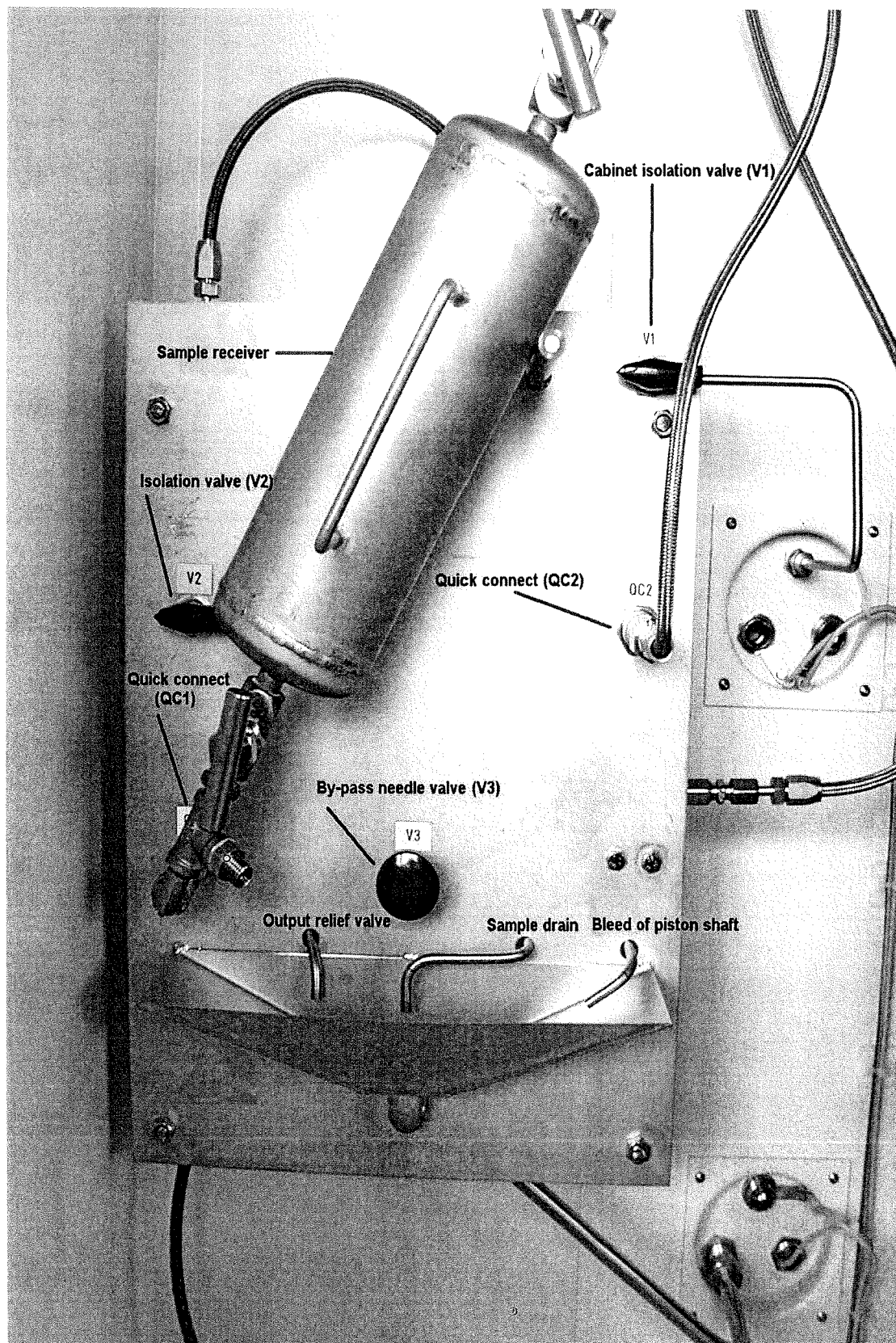
A-Front view

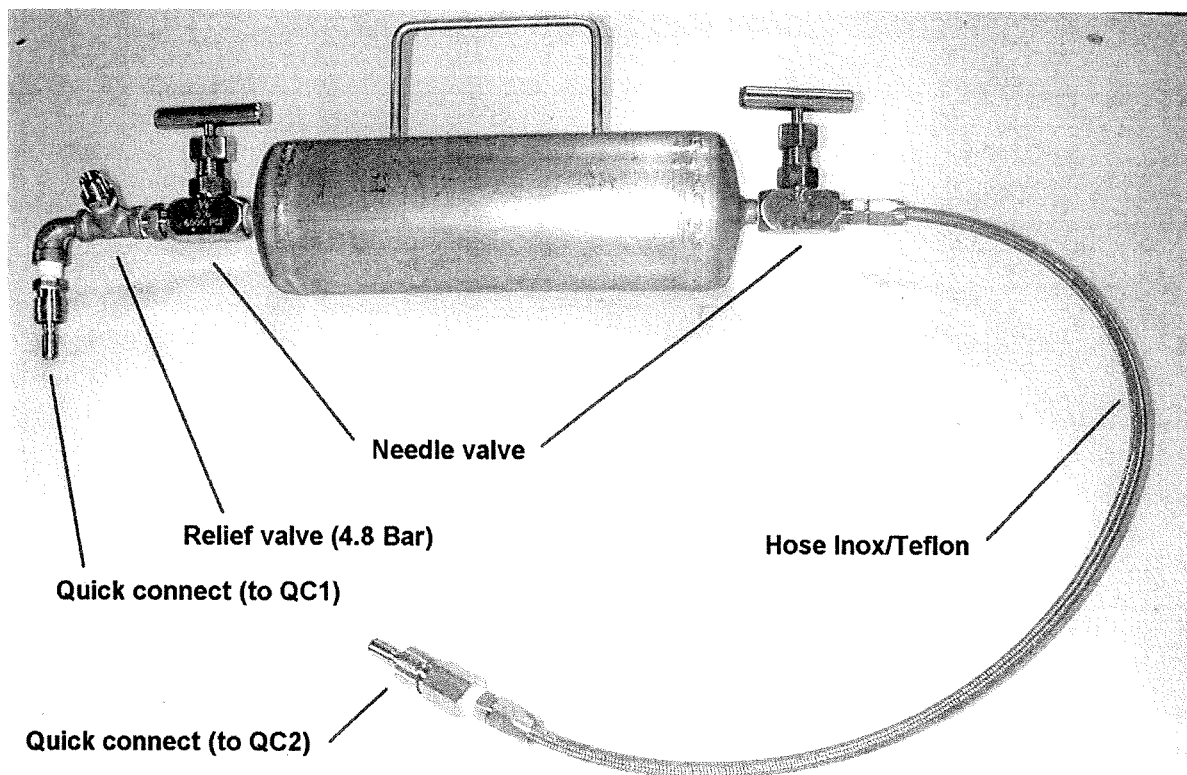


A-Rear view and connections



4 - FILLING of the TRANSPORT CYLINDER :





After the end of sampling (end of the grabs pulses toward the probe), the transfer of a volume of 1 L of homogenous sample must be operated towards the transport cylinder .

The procedure of transfer must be carried out according to the phases described below:

- Make sure that the cylinder of transport was emptied and cleaned and that the 2 isolation valves on both sides are closed.
 - Shut-off the isolating valve of the cabinet(item V1)
 - Switch on the motor : Under this action the stirrer is operating and the pump recycles hydraulic oil on the auxiliary tank through the hydraulic chamber of the receiver and the back pressure regulator – item 8 – under a pressure of 2 to 3 barsg.
 - Let the homogenisation operating for a period of 10 to 15 mn.
 - Connect the 2 quick-connects of the transport cylinder(item QC1-QC2)
 - Open the ball valve(item V2) and gradually the by-pass needle valve(item V3)
- The sample is drained from the receiver , set the opening of the by-pass needle valve to get a path velocity of the piston shaft piston of 100 mm/mn roughly.
- When the piston shaft reaches the graduation 8L, open the 2 needle valves interdependent of the cylinder of transport and close the valve of by-pass (V3), the sample coming from the receiver passes through the transport cylinder .
 - When the sample reaches the graduation 4L, reopen the valve of by-pass V3 and close the 2 valves interdependent of the transport cylinder .
 - When the totality of the receiver has been drained close the valves (item V2-V3) on the transfer plate assembly.
 - Disconnect the 2 quick connects from the transport cylinder .
 - Reopen the isolating valve of the cabinet V 1

- Bring the transport cylinder in laboratory and conform to the procedure ISO 3171 for the conditioning of the sample and its analysis.

IV - PREVENTIVE MAINTENANCE :

The system does not require a systematic task of maintenance

1 - RECEIVER ISOSAMPLE 4100 :

The double set of seals , can require to be replaced at the end two years of continuous service.

Before any maintenance action, preventive or curative, it is necessary to empty the receiver of the sample and hydraulic oil.

For that:

- switch on the pump to purge the sample to the drain
- switch- off the power supply
- Drive the piston in high position by means of compressed air pressure 4 B

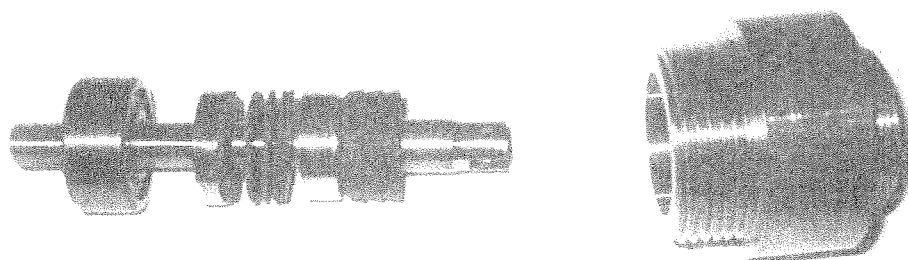
1-A) Replacement of the seal of shaft (drawing VERC 321 & 322)

Dismount the various accessories equipping the end with the axis (guide of potentiometer, bearing thrust ball, etc.)

- by means of a hook wrench loosen the body of guide pin
- leave the axis
- replace the seal (GOLD 24x 2 NBR)
- lubricate
- go up the body of guide pin while not forgetting to use a product of blocking of threading
- reassemble the accessories equipping the end with the axis

1-B) Packing gland (overall drawing n° VERC320)

STIRRER GLAND



- dismount the guard of belt
- remove the belt
- by means of a hook wrench loosen the unit presses packing (the blades of the stirrer being articulated it is not necessary to dismount the body of the receiver to go up or to dismount the whole of the press packs)
- remove the pulley and the blades of stirrer
- remove the lid of the gland
- leave the unit the axis
- remove the ball bearing (13)
 - the plate of spacers (11)
 - the spring spacers (10)
 - the seals assembly (9)
 - the rafter seals (8)
- replace the rafter seal (care with the direction)

- adjust the seal
- set the axis places from there in the body of gland (to use for this operation a tube 15 X 21 length 150) to make sure that the rafter seals are well in place
- give the 5 spring spacers (care with the direction)
- give the spacers, the bearing ball, the lid of gland , to tighten it completely.
-
- reassemble the pulley (not to forget the star washer) and the blades of stirrer
- to give the whole of the press packs on the lower support of the receiver while being ensured than the blades are repositioned correctly in horizontal position. This operation must be done in vertical position.

1 -C) Piston seals :

- Dismount the receiver of its support
- Dismount the 4 threaded rods M12
- Dismount the supports lower and higher as well as the piston-axis unit of the higher support
- Remove the piston seals (BUT 190 X 5 – Viton covered PTFE) by having care not to mark the bottom of throat.
- Replace the seals and to check the tightening of the screw of coupling of the pistons to the axis
- Reset the piston-axis unit by having care to introduce it by the bottom on the body, the side chamfer
- Reset the whole of the parts by having care to check the axis of the threaded rods compared to the supports.



NOTICE

It is recommended to benefit from this operation to replace the joint of axis and the joints of press packs.

2 - COMPONENTS OF The SYSTEM:

- Back pressure regulator item.8: change the seat at the end two years of continuous service.
- non-return Valve rep.9: change the seat at the end two years of continuous service.

3 – MOTOR :

The motor is built with bearings ball lubricated with life. No lubrication is necessary.
To replace the driving belt agitator at the end 2 years of continuous service.

4 - PUMP:

FS: to refer to the pump handbook .

V – MOST FREQUENT BREAKDOWNS:

1 - The probe does not take a volume of suitable sample:

Control that there is no stopping by paraffin in the internal circuits of sampling inside the cabinet .

Make sure that the by-pass relief valve of sampling by-pass is set with the value communicated by the data-sheet (usually 3 Barsg)

If the pressure is too high, an excessive wear will be caused with the internal seals of sampler.

Make sure that the control unit is not programmed for a frequency to grab more than 60 grabs / mn or that the signal delivered with the solenoid is not too fast.

If the tests which precede are satisfactory, refer to the handbook of probe of sampling, which will require probably a change of the internal seals .

2- The sampler takes by excess:

Make sure that the by-pass relief valve of sampling by-pass is set with the value communicated by the data-sheet .

If the set pressure is too low, the internal valve can be raised making possible the sample to flow constantly.

Ensure that the control unit is not programmed for a grab frequency higher than 60 grabs / mn (for 50 Hz) or that the signal delivered with the solenoid is not too slow, and does not allow the clutch to disengage.

If the tests which precede are satisfactory, to refer to the handbook of probe of sampling, which will require probably a change of the internal joints, if not the spring of clutch could have broken what can cause a grabbing without interruption of the probe.

3 - A leak escapes from the receiver:

A continuous flow runs out by the vent of the piston shaft in the drops vat of the of transfer plate assembly .

- a seepage is normal in this place because the films of sample which can remain after draining of the receiver are collected in the inter-joint room ; however if a continuous flow appears:

. This flow is continuous whatever the position of the piston: the seals of receiver must be replaced.

. This leaking flow is noted only for one given altitude of the piston: the internal boring of the cylinder of receiver is striped on a weak path and must be remanufactured or replaced.

VI APPENDICES:

A – MOTOR

B - PUMP

C- BACK PRESSURE REGULATOR

D – NON RETURN VALVE

A - MOTOR

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CE

MANUAL FOR STORAGE, ASSEMBLY, AND UTILIZATION OF ASYNCHRONOUS THREE PHASES MOTORS SHORT CIRCUIT LOW TENSION

GB-F

INSTRUCTIONS POUR LE STOCKAGE, LE MONTAGE ET L'UTILISATION DES MOTEURS ASYNCHRONES TRIPHASES EN COURT-CIRCUIT BASSE TENSION

- | | |
|--|---|
| 1 - STORAGE, MECHANICAL AND ELECTRIC CHECK | 1 - STOCKAGE, VERIFICATION MECANIQUE ET ELECTRIQUE |
| 2 - MAINTENANCE | 2 - MANUTENTION |
| 3 - INSTALLATION | 3 - INSTALLATION |
| 4 - COUPLING WITH PULLEY | 4 - ACCOUPLEMENT AVEC POULIE |
| 5 - DIRECT COUPLING | 5 - ACCOUPLEMENT DIRECT |
| 6 - CONNECTION TO THE ELECTRIC LINE | 6 - RACCORDEMENT AU RESEAU |
| 7 - CONNECTION OF THE INCORPORATED THERMAL RELAY | 7 - BRANCHEMENT DE LA PROTECTION THERMIQUE INCORPOREE |
| 8 - GREASING | 8 - LUBRIFICATION |
| 9 - SPARE PARTS | 9 - PIECES DETACHEES |
| 10 - CONNECTION DIAGRAMS | 10 - SCHEMA DES CONNEXIONS |

1 - STORAGE, MECHANICAL AND ELECTRIC CHECK

- 1.1 For transport put protection on the shaft end. (It doesn't exist on all types).
- 1.2 To make sure no damage occurred during the transport turn the shaft lightly.
- 1.3 In case of extended storage put the motor in an aired and dry room.
- 1.4 If motor stores in stock for more than three month check the insulation values before using it.
The insulation values must be $\geq 500 \text{ M Ohm at V. } 1000 \text{ cc}$ ($\geq 100 \text{ M Ohm at V. } 500 \text{ cc}$).
- 1.5 In case value is not exact it is necessary to dry the motor in question. The best way is to dry it at $80/100^\circ\text{C}$ max. To have a security measure it would be better to disassemble the motor.
- 1.6 Only skilled personnel can make this operation which requires a great deal of attention to maintain the particular quality of the motor during its reassembly.

2 - MAINTENANCE

- 2.1 Both maintenance and frequency of controls depend on environmental and running conditions of the motor.
We suggest to inspect the motor at least once a year.
- 2.2 Make sure that ventilation is not obstructed.
Clean the motor taking off eventual dust or fibres deposits from fins and cooling fan cap.
- 2.3 When the motor is installed a very damp environment, check periodically that gaskets and seals as well as eventual protection devices maintain their efficiency.
Make sure that there are no infiltrations inside the frame casing or the terminal box.
- 2.4 In case motor is provided with drainage device it must be periodically checked and cleaned so that such device maintains its efficiency.
- 2.5 In case motor is installed in an environment with corrosive agents, and when necessary, it is advisable to paint again the motor in order to protect external surfaces from corrosion.

3 - INSTALLATION

- 3.1 An opportune airing must be foreseen.
- 3.2 Make sure that ventilation is not obstructed.
It is indispensable to clean the motor periodically.
- 3.3 The room temperature must be lower than 40°C . (except different request).
- 3.4 Assemble on the shaft the elastic joint or the pulley avoiding to beat with an hammer.
Another solution is: to screw down a metallic piece into the threaded hole of the shaft and to exercise a pressure

1 - STOCKAGE, VERIFICATION MECANIQUE ET ELECTRIQUE

- 1.1 Pour le transport, placer la protection à l'extrémité de l'arbre (n'existe pas sur tous les types).
- 1.2 Pour s'assurer qu'il n'y a eu aucune détérioration pendant le transport, faire légèrement tourner l'arbre.
- 1.3 En cas de stockage prolongé, le moteur doit être placé dans un local sec et aéré.
- 1.4 Avant l'utilisation du moteur après un stockage de plus de trois mois, il faut contrôler la valeur de l'isolation; cette dernière doit être $\geq 50 \text{ M Ohm à V. } 1000 \text{ cc}$ ($\geq 100 \text{ M Ohm à V. } 500 \text{ cc}$).
- 1.5 Dans le cas où cette valeur n'est pas atteinte, le moteur doit être esséché.
Le meilleur moyen étant d'étuver le moteur à une température maximale de 80 à 100°C . Par mesure de sécurité, il convient de démonter le moteur.
- 1.6 Cette opération ne peut être effectuée que par un personnel spécialisé, avec la plus grande attention afin de maintenir la qualité spécifique du moteur au cours du remontage.

2 - MANUTENTION

- 2.1 Le type de manutention et la fréquence des contrôles dépendent des conditions ambiantes et du fonctionnement du moteur, il est de bon usage, cependant, de faire une inspection au moins une fois par an.
- 2.2 S'assurer que la ventilation n'est pas obstruée. Nettoyer le moteur en retirant les éventuels dépôts de poussière ou fibres des ailettes et du couvercle du ventilateur.
- 2.3 Lorsque le moteur est installé dans une ambiance très humide ou est soumis à la stillation, contrôler périodiquement que la garniture et les bagues d'étanchéité et éventuels dispositifs de protection maintiennent leur efficacité. S'assurer qu'il n'y a pas d'infiltration à l'intérieure de la carcasse ou de la boîte à bornes.
- 2.4 Les moteurs pourvus d'un dispositif de drainage doivent être contrôlés et nettoyés périodiquement afin que les dispositifs maintiennent leur fonctionnement.
- 2.5 Si le moteur est dans une ambiance corrosive, quand nécessaire, il est opportun de repeindre le moteur lui-même afin de protéger les surfaces externes de la corrosion.

3 - INSTALLATION

- 3.1 Prévoir une aération suffisante du moteur.
- 3.2 Il faut s'assurer que la ventilation n'est pas gênée. Il est donc indispensable de nettoyer périodiquement le moteur.
- 3.3 La température ambiante doit être inférieure à 40°C (sauf demande spéciale à la commande).
- 3.4 Monter sur l'arbre le demi-joint élastique ou la poulie. Cette opération doit s'effectuer en chauffant le demi-joint élastique ou la poulie pour éviter de devoir frapper au maillet. Une autre solution est possible: il suffit de visser une pièce

- in the opposite direction from that of the extractor.

3.5 Make sure that the plastic joint or pulley is in the right position and placed against the shaft support.

4 - COUPLING WITH PULLEY

- 4.1 A perfectly balanced pulley must be used.
- 4.2 It is advisable not to use a pulley having a too small diameter.
- 4.3 Check the alignment between the pulley and the equipment to be actionned.
- 4.4 The fixing on the base must allow the belt tensioning.

5 - DIRECT COUPLING

- 5.1 A perfectly balanced coupling must be used.
- 5.2 Check carefully the alignment of this coupling.

6 - CONNECTION TO THE ELECTRIC LINE

- 6.1 It is necessary to use suitable cables in order to avoid excessive droopings.
- 6.2 Connect according to the indications showed on the plate. In case a special connection is required, it will be made in accordance with the diagram included into the terminal box of the motor.
- 6.3 An additional screw placed inside the terminal box of the motor allows the earthing.
- 6.4 Check that the terminal box is perfectly closed, especially if the motor is outside.

7 - CONNECTION OF THE INCORPORATED THERMAL RELAY

- 7.1 Motors protected against overloads are complete with incorporated thermal relay. Connect the two cables of the thermal relay to the suitable terminals placed inside the terminal box near to the main terminal box.

8 - GREASING

- 8.1 Our motors are provided with balls-bearings lubricated for life. Further greasing is, consequently, not necessary.
- 8.2 In case of motors equipped with lubricators apply to the supplier asking for the relevant greasing table.
- 8.3 The following table quotes intervals of lubrication expected for working temperature of 70 °C in a condition of normal working (functioning) you'd better use grease of lithium soap of good quality with a great penetration capacity and high melting point.
(Ameco - optimal long time PD2).

métallique dans le trou taraudé de l'arbre et d'exercer une pression à l'inverse de celle d'un extracteur.

3.5 *Il faut s'assurer que le demi-joint ou la poulie est complètement en place et plaqué contre l'épaule de l'arbre.*

4 - ACCOUPLEMENT AVEC POULIE

- 4.1 *Utiliser une poulie parfaitement équilibrée.*
- 4.2 *Il faut éviter l'emploi d'une poulie d'un diamètre trop faible.*
- 4.3 *Contrôler l'alignement avec la poulie de la machine à commander.*
- 4.4 *La fixation sur la base doit permettre la tension de la courroie.*

5 - ACCOUPLEMENT DIRECT

- 5.1 *Utiliser un joint d'accouplement parfaitement équilibré.*
- 5.2 *Contrôler très soigneusement l'alignement de cet accouplement.*

6 - RACCORDEMENT AU RESEAU

- 6.1 *Sélectionner des câbles d'alimentation suffisants pour éviter des chutes de tension excessives.*
- 6.2 *Raccorder selon les indications figurant sur la plaque signalétique, sauf dans le cas d'un brachement spécial qui devrait être effectué conformément au schéma contenu dans la boîte à bornes.*
- 6.3 *Une vis supplémentaire située à l'intérieur de la boîte à bornes permet le raccordement à la terre.*
- 6.4 *Contrôler la fermeture de la boîte à bornes, surtout dans le cas où le moteur se trouve à l'extérieur.*

7 - BRANCHEMENT DE LA PROTECTION THERMIQUE INCORPOREE

- 7.1 *Les moteurs protégés contre la surtempérature possèdent des thermoprotecteurs incorporés dont les deux câbles ainsi que ceux du discontacteur, sont à raccorder aux deux petites bornes qui se trouvent à l'intérieur de la boîte à bornes principale.*

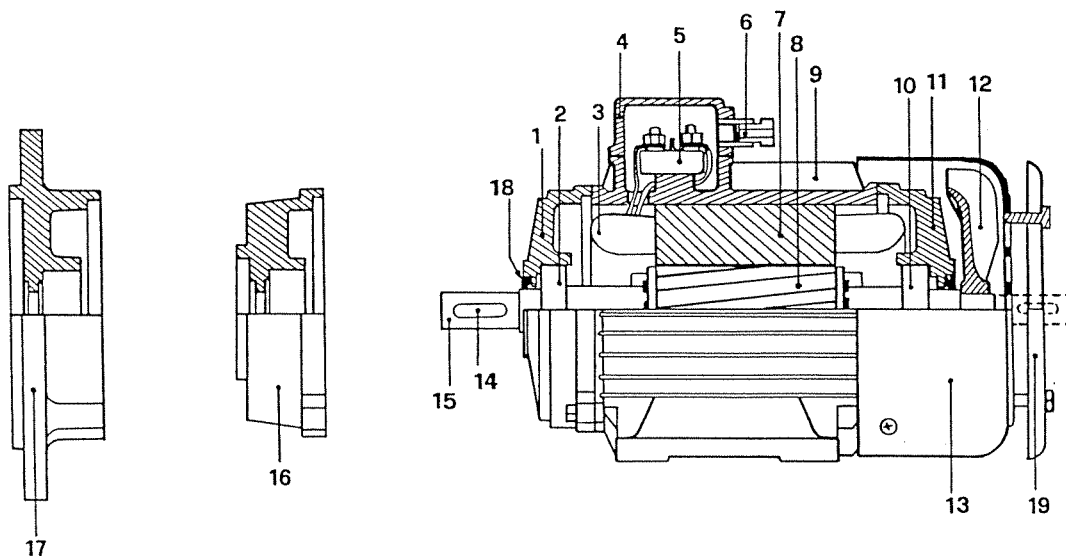
8 - LUBRIFICATION

- 8.1 *Nos moteurs sont construits avec des roulements à billes graissés à vie. Il n'y a pas besoin de les lubrifier.*
- 8.2 *Ce qui figure ci-dessus en 8.1 ne concerne, évidemment pas, les moteurs équipés de graisseurs.*
- 8.3 *Le tableau suivant indique les intervalles prévus pour température d'exercice du roulement de 70 °C en condition de fonctionnement normal. Il est conseillé d'utiliser de la graisse au savon de lithium de bonne qualité avec une grande capacité de pénétration et haut point de goutte. (Ameco - optimal long time PD2).*

STANDARD MOTORS - MOTEURS STANDARD

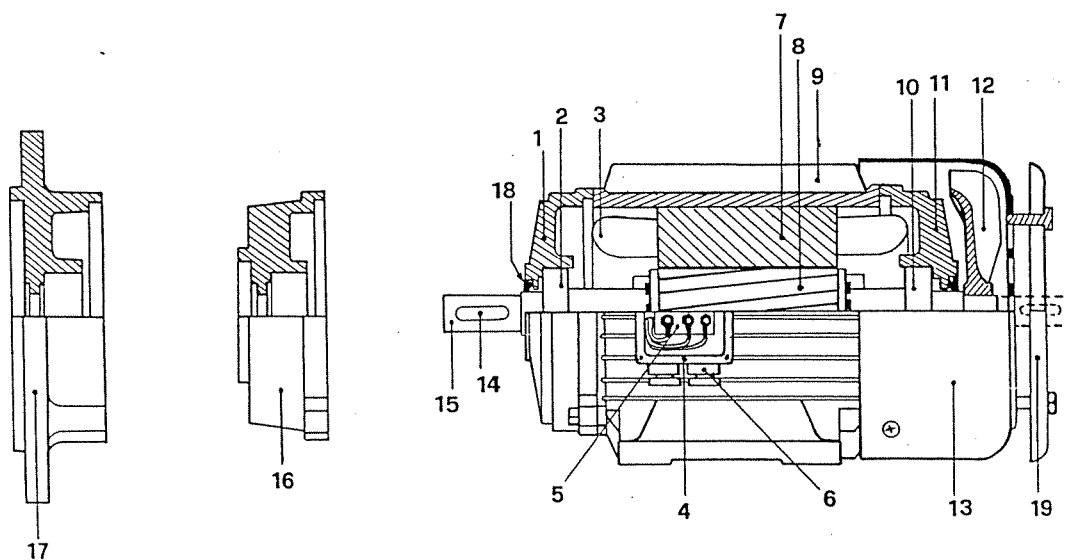
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SPARE PARTS - PIÈCES DETACHÉES

- | | |
|--|--|
| 1 - DRIVE END SHIELD - FLASQUE AVANT | 11 - NO-DRIVE END SHIELD - FLAQUE ARRIÈRE |
| 2 - FRONT BALL BEARINGS - ROULEMENT À BILLES AVANT | 12 - COOLING FAN - VENTILATEUR |
| 3 - WINDING - BOBINAGE | 13 - COVER FAN - COUVRE VENTILATEUR |
| 4 - TERMINAL BOX - BÔITE À BORNES | 14 - KEY - CLAVETTE |
| 5 - TERMINAL BOARD - BORNE | 15 - SHAFT - ARBRE |
| 6 - CABLE GLANDS - PRESSE ETUPE | 16 - FLANGE B14 - BRIDE B14 |
| 7 - STATOR - STATOR | 17 - FLANGE B5 - BRIDE B5 |
| 8 - ROTOR - ROTOR | 18 - BY ANGULAR BEARING - JOINT À LÈVRE |
| 9 - FRAME - CARCASSE | 19 - PROTECTION RAINCAP - DÔME DE PROTECTION |
| 10 - BACK BALL BEARINGS - ROULEMENT À BILLES ARRIERE | |

BEARINGS	QUANTITY OF GREASE "in g."	3000 rpm h	1500 rpm h	1000 rpm h	750 rpm h
6205/6206	4	4.500	9.500	10.000	10.000
6304/6305	6,5	3.650	8.000	10.000	10.000
6306/6307	10	2.800	6.000	9.000	10.000
6308/6309	12,5	2.350	5.600	8.500	10.000
6310/6311	17	1.800	4.500	7.500	10.000
6312	21	1.600	4.000	7.100	9.500
6313	24	1.400	3.750	6.700	9.000
6314 NU 314	26 26	1.250 -	3.550 1.800	6.300 3.150	8.500 4.250
6316 NU 316	33 33	900 -	3.150 1.600	5.600 2.800	8.000 4.000
6317 NU 317	41 41	850 -	2.650 1.400	5.000 2.650	7.100 3.550
6319/6320 NU 320	51 51	800 -	2.360 1.180	4.500 2.360	6.300 3.350

ROULEMENT	QUANTITÉ GRAISSE "en g."	3000 t/mn h	1500 t/mn h	1000 t/mn h	750 t/mn h
6205/6206	4	4.500	9.500	10.000	10.000
6304/6305	6,5	3.650	8.000	10.000	10.000
6306/6307	10	2.800	6.000	9.000	10.000
6308/6309	12,5	2.350	5.600	8.500	10.000
6310/6311	17	1.800	4.500	7.500	10.000
6312	21	1.600	4.000	7.100	9.500
6313	24	1.400	3.750	6.700	9.000
6314 NU 314	26 26	1.250 -	3.550 1.800	6.300 3.150	8.500 4.250
6316 NU 316	33 33	900 -	3.150 1.600	5.600 2.800	8.000 4.000
6317 NU 317	41 41	850 -	2.650 1.400	5.000 2.650	7.100 3.550
6319/6320 NU 320	51 51	800 -	2.360 1.180	4.500 2.360	6.300 3.350

In case speed was different from the one indicated on the table, you must modify the intervals in inverse proportion.

Ex. bearing 6314 at 1800 rpm $\frac{1.500}{1.800} \times 3550 \text{ h} = 2950 \text{ h}$

Au cas ou la vitesse est diverse de celle indiquée au tableau, les intervalles seront modifiés en proportion inverse.

Ex. roulement 6314 à 1800 t/mn $\frac{1.500}{1.800} \times 3550 \text{ h} = 2950 \text{ h}$

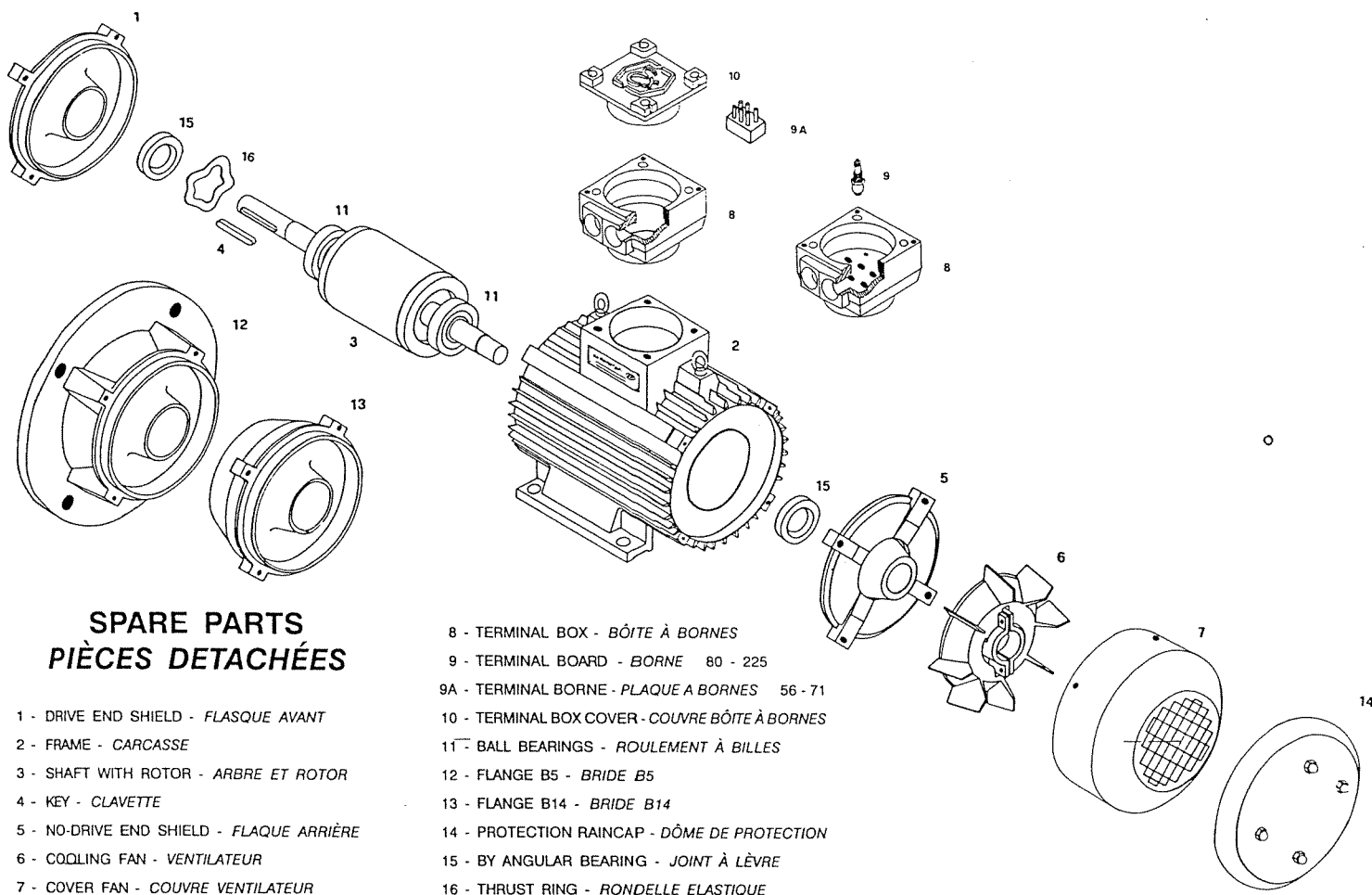
9 - SPARE PARTS

9.1 In case some motors pieces must be replaced referring to the attached spare parts list and apply to the supplier.

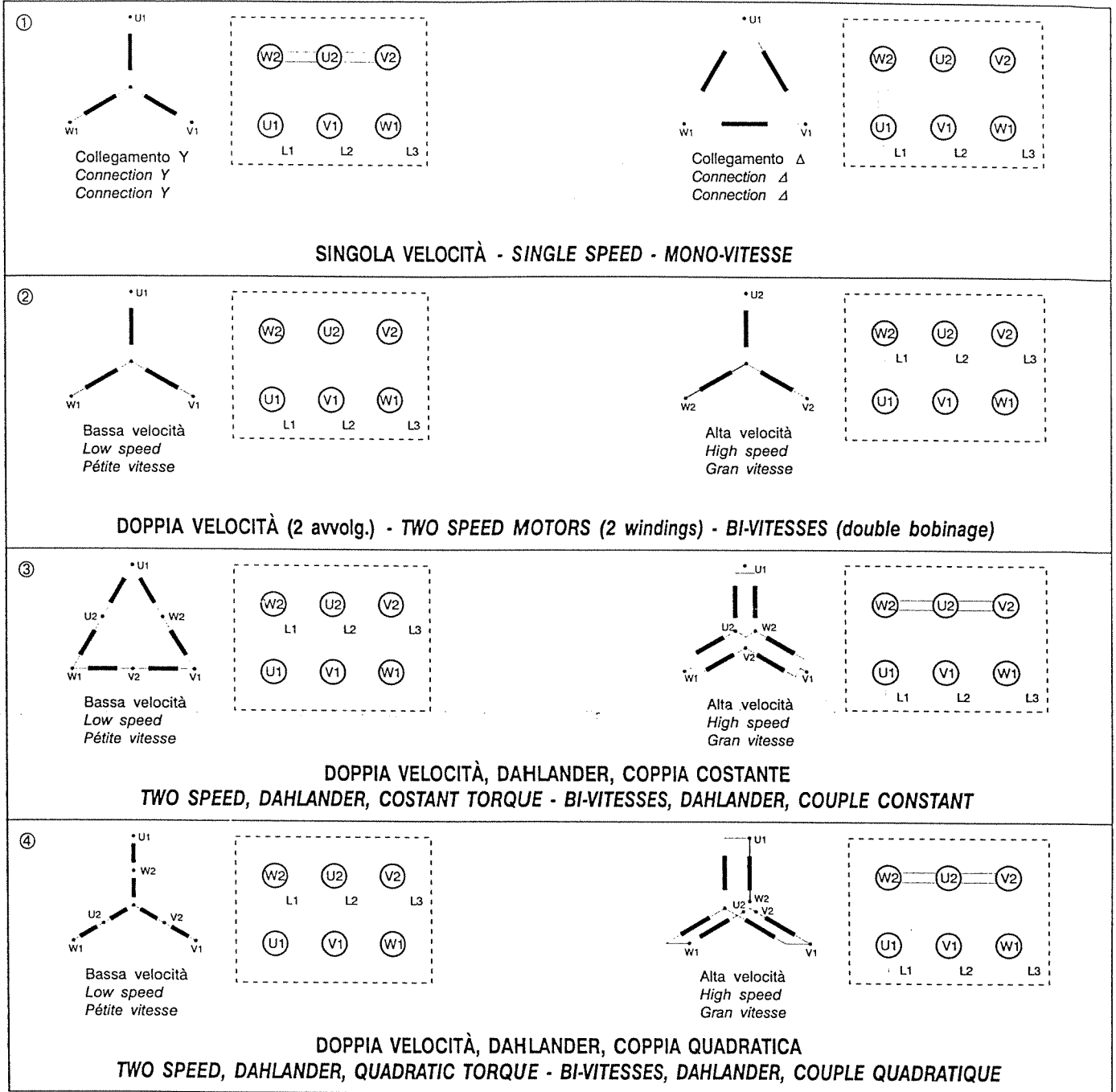
9 - PIECES DETACHEES

9.1 Lorsque l'on effectue la substitution de quelque composante du moteur, celle-ci doit être fait avec des pièces de rechange originales.

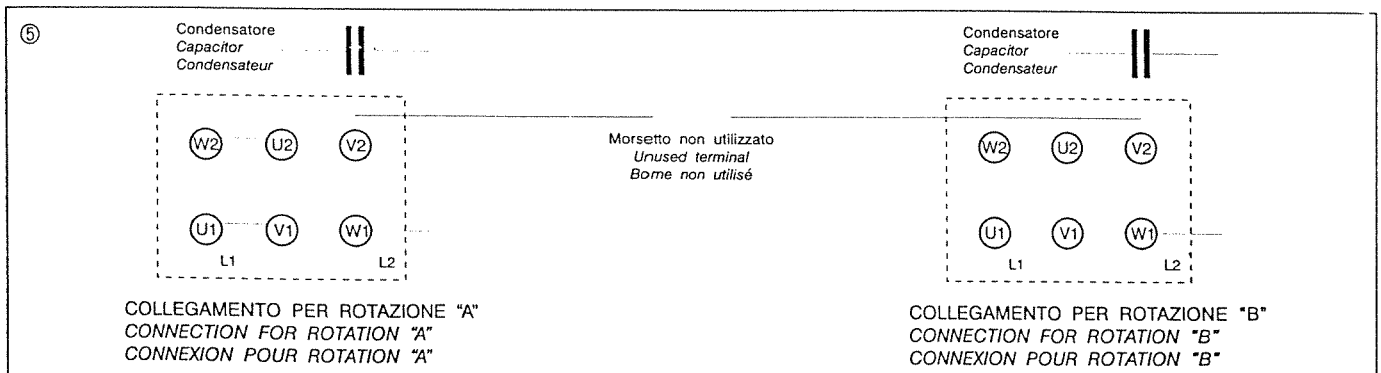
FLAMEPROOF ELECTRIC MOTORS - MOTEURS ELECTRIQUES ANTIDÉFLAGRANTS



**SCHEMI DI COLLEGAMENTO MOTORE TRIFASE
THREE-PHASE MOTOR CONNECTION DIAGRAM
SCHEMAS DE BRANCHEMENT MOTEUR TRIPHASES**



**SCHEMI DI COLLEGAMENTO PER MOTORE MONOFASE
SINGLE-PHASE MOTOR CONNECTION DIAGRAM
SCHEMAS DE BRANCHEMENT MOTEUR MONOPHASE**





B - PUMP

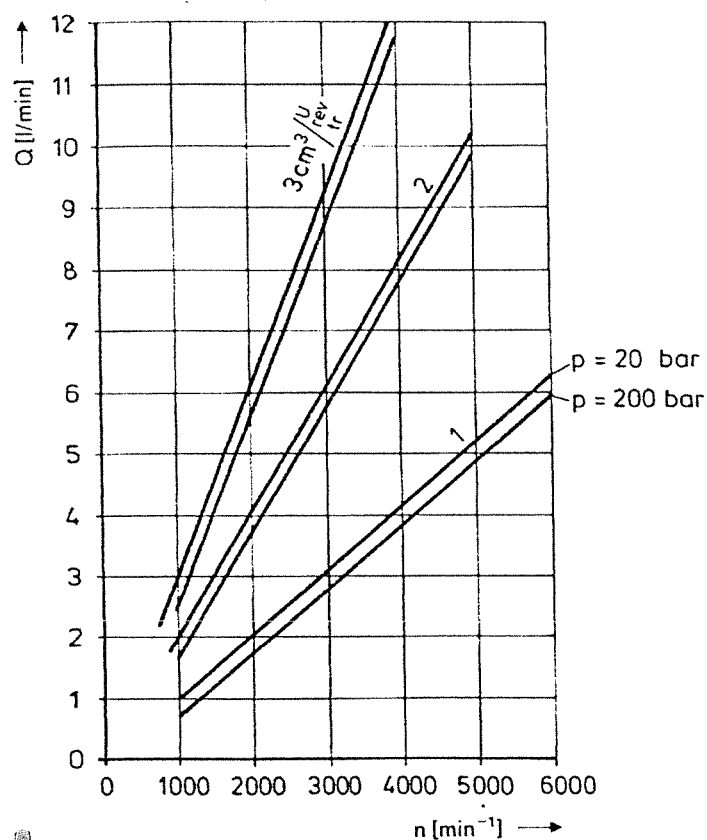
Typformel Type code Codification	Fördervolumen Displacement Cylindrée	Maß Dimension Cote						
HY/ZBR 1/...	V [cm³/l...]	A	B	C		kg	⊕ 	⊕ 
1 A ^R _R 101	1	33,2	66,3	76		0,9	0510 010 302	0510 010 003
2 A ^R _R 101	2	35,3	70,5	81		0,95	0510 110 302	0510 110 002
3 A ^R _R 101	3	37,4	74,7	86		1,0	0510 112 303	0510 112 003

Diagramme Diagrams Diagrammes

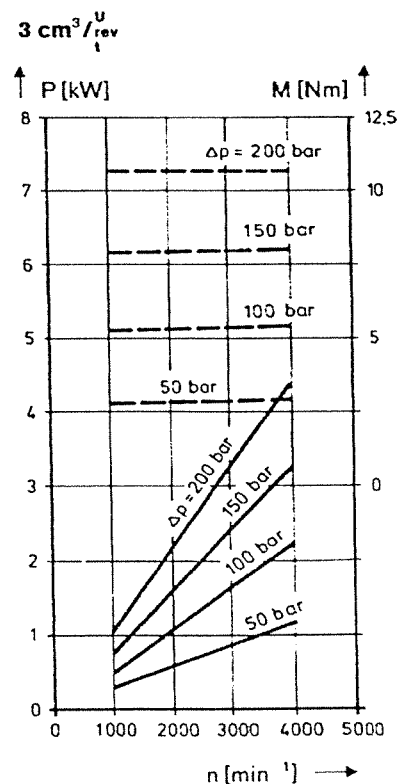
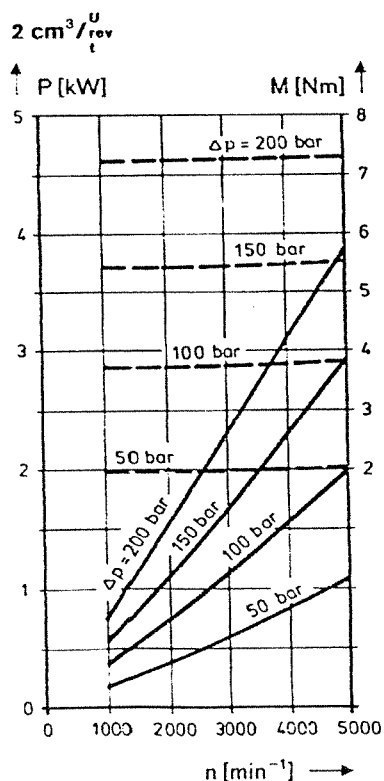
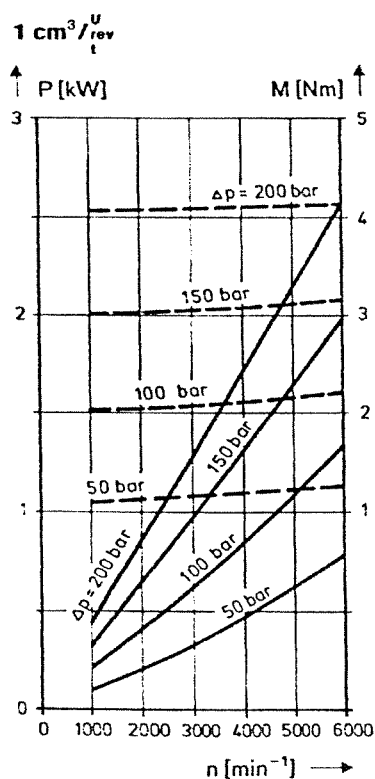
Größe
Size
Taille **B**

$v = 35 \text{ mm}^2/\text{s}$, $T = 50^\circ\text{C}$

$Q = f(n, V)$ incl. η_v

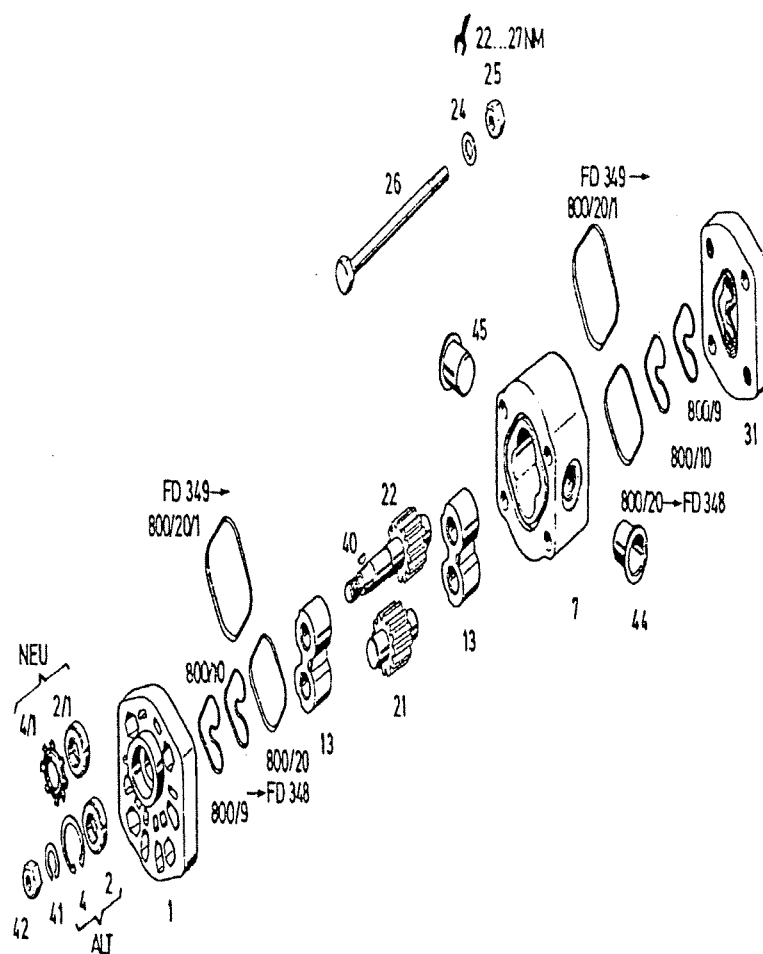


$P = f(n, p)$ — incl. η_t
 $M = f(n, p)$ - - - incl. η_{hm}



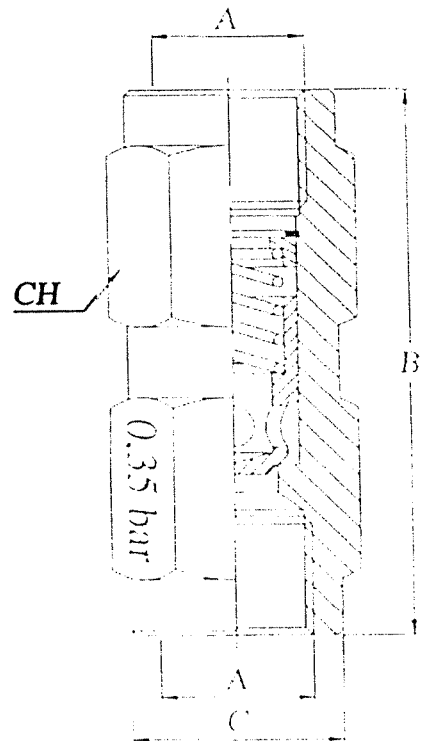
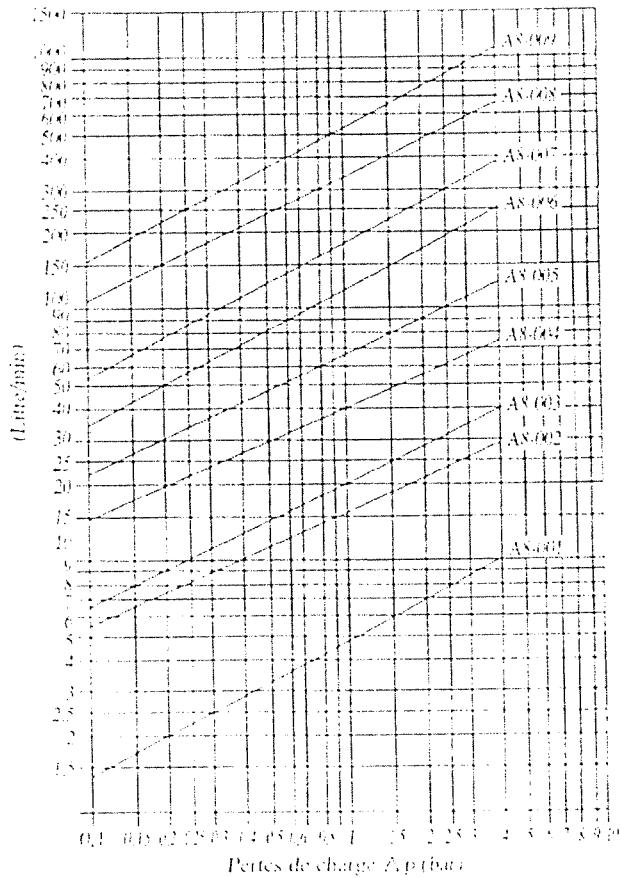
SPARE PARTS of the METERING PUMP
0 510 010 003

Item	Part reference	Designation	Note
1		Flask	Unit 1
2	1 510 283 007	Closing spacer	Unit 1
2/1	1 510 283 032	Closing spacer	22x7 NEU Unit 1
4	2 916 660 005	Stopping nut	ALT Unit 1
4/1	1 510 110 004	Spacer	NEU Unit 1
7		Pump body	Unit 1
13		Bearing	Unit 2
21		Gear wheel	Unit 1
22		Gear wheel	Unit 1
24	2 916 011 016	Nut	Unit 2
25	2 915 011 065	Hexagonal nut	Unit 2
26		Screw	Unit 2
31		cap	Unit 1
40	1 900 023 001	Mec E Key disk	Unit 1
41	2 916 699 003	Grower spacer	Unit 1
42	2 915 011 007	Hexagonal nut	Unit 1
44	1 900 508 008	Protecting cap	M 14 x 1.5 Unit 1
45	1 900 508 012	Protecting cap	M16 x 1.5 Unit 2
800	1 517 010 188	Set of seals	Unit 1
800/9		Circle seal	Unit 2
90/10		Fixing ring	NEU Unit 2
800/20		Flat seal	42x2 FD 348 Unit 2
800/20/1		Flat seal	42x2 FD 349 Unit 2



C – BACK-PRESSURE REGULATOR

PRESSURE DROP DIAGRAM



Code	A BSP	SIZE - mm -		Op. Pressure	
A8-000	1/8"	44	13.8	14	350
* A8-001	1/4"	60	18.5	19	300
A8-002	3/8"	70	23.5	24	300
A8-003	1/2"	77	29.5	30	300
A8-004	3/4"	90	35.5	36	300
A8-005	1"	106	44.5	45	300
A8-006	1 1/4"	125	54.5	55	300
A8-007	1 1/2"	140	64.5	65	300
A8-008	2"	160	74.5	75	200

**BACK PRESSURE
REGULATOR**
Drawing 01 929 Sheet 1
Item 8



FOURNITURES INDUSTRIELLES

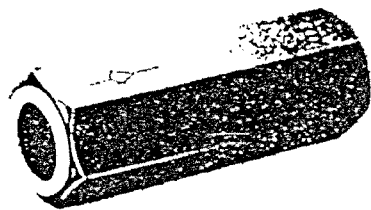
s.a. J. Le Corvaisier

Siège Nancy-Heillecourt
2 rue du Coteau - BP 49 - ZI
54182 HEILLECOURT cedex
Tél. 03.83.56.02.18

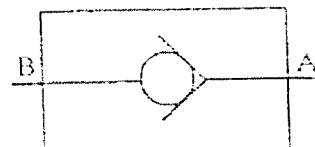
Agence Metz-Woippy
74 route de Thionville - BP 832
57148 WOIPPY cedex
Tél. 03.87.31.75.60

D – NON RETURN VALVE

SPECIFICATIONS

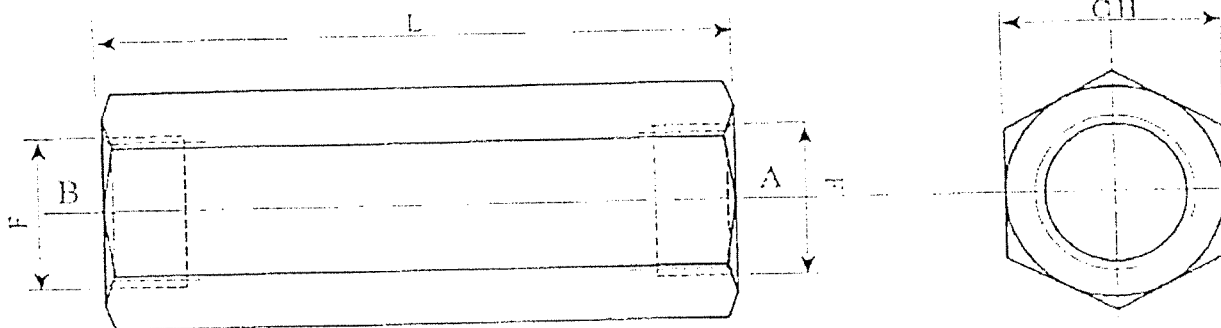


- FLOW RATE 15 to 320 L/mn
- Maximum pressure 250 to 350 barsg
- Connections : BSPP
- Temperature range - 20 to 90 °C
- Set pressure 0.5 barsg



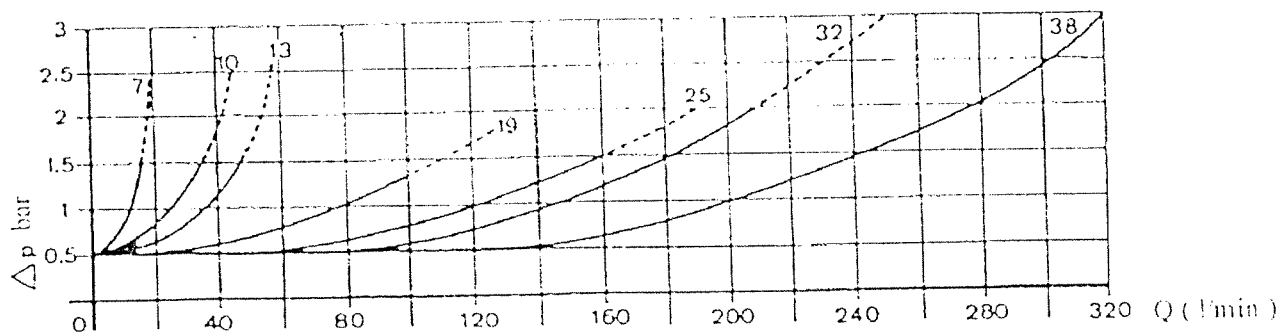
CODE : 550XXX

SIZE :



	CODE	TYPE	Max Flow	Max pressure	F (BSPP)	L	CH
X	550101	CA 7	15	350	1/4"	60	19
	550102	CA 10	35	350	3/8"	60	24
	550103	CA 13	50	350	1/2"	79	27
	550104	CA 19	100	310	3/4"	94	36
	550105	CA 25	160	250	1"	114	46
	550106	CA 32	210	250	1 1/4"	138	55
	550107	CA 38	320	250	1 1/2"	148	60

2 - PRESSURE DROP : (Oil viscosity 4.5 °E at 50 °C)



VII – SPARE PARTS

4 YEARS RECOMMENDED SPARE PARTS

MECI Reference P/O : B 35 798

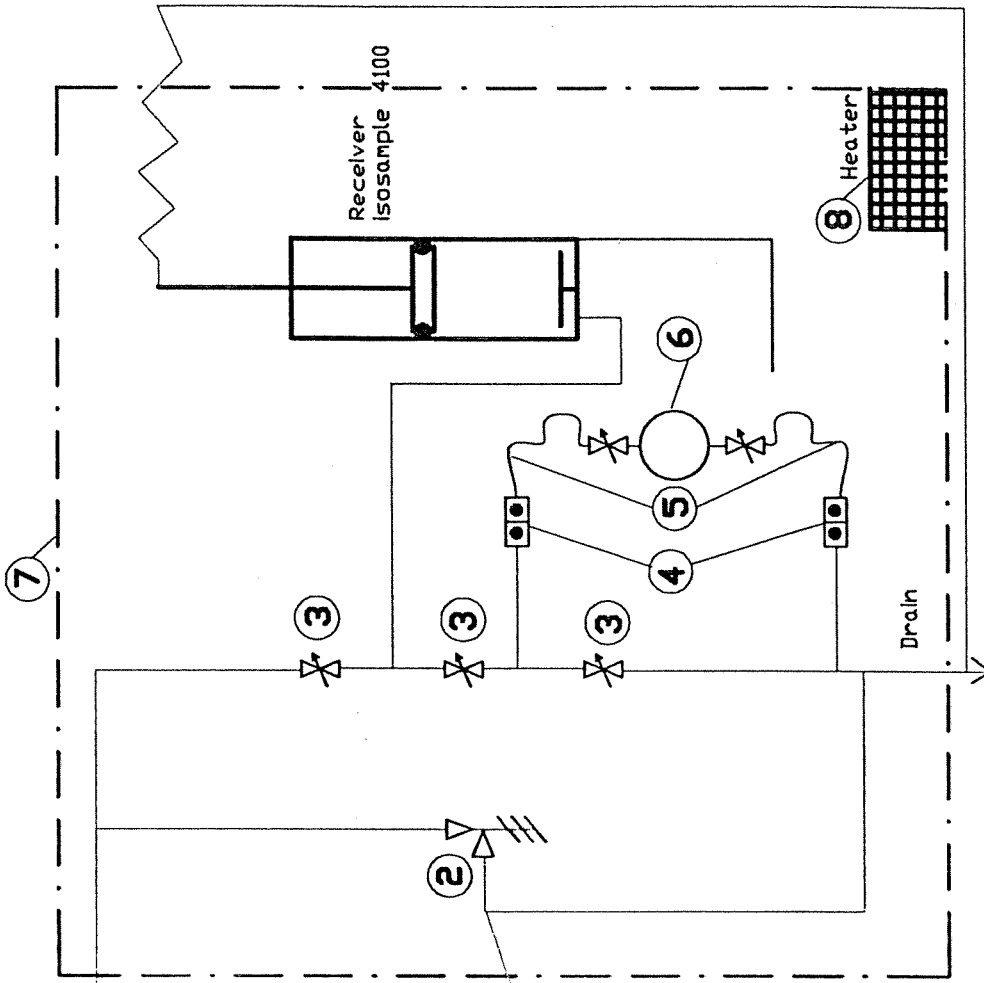
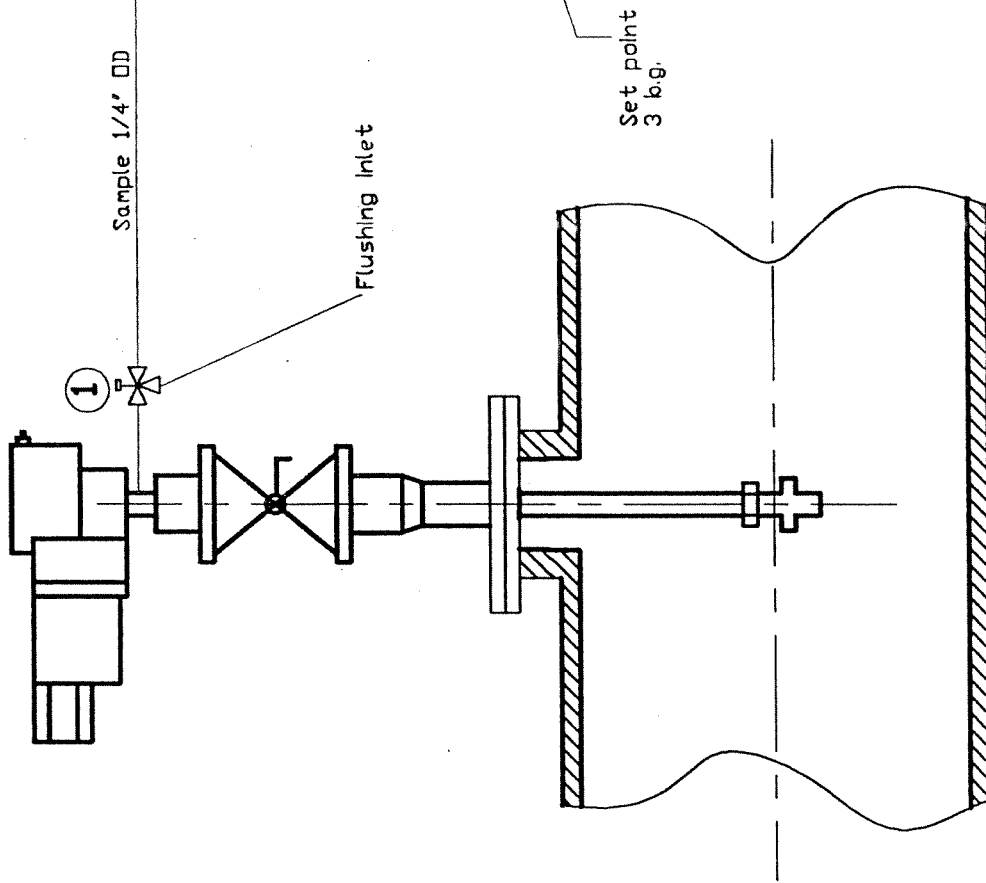
FBF Reference : O/N: 01 929

	PART NUMBER	COMMISSIONING	OPERATIONAL
For 7 off 210EH Sample Probes			
Spares Kit	45- 0114- 00	1	3
Tool kit	45-0126-00	0	2
For 25 710-EL Sample Probes			
Spares Kit	45- 0170-00	1	10
Tool kit	45-0173 -00	0	3
For 32 off Isosample 4100 Receivers			
Spares Kit	4100- 0114 170-00	1	10

VIII – DRAWINGS :

- A– General Assembly N° 01 929 Sheet 2
- B- Mechanical Assembly: N° 01 929 Sheet 1
- C –Sampling cabinet general arrangement P927300-I-302
- D – Sampling cabinet schematic diagram P927300-I-304
- D –Signal interconnection diagram : N° 01 929 Sheet 3
- E- Power supply interconnections N° 01929 Sheet 4
- F- Receiver partial views VERC 320 , 321 , 322 , 323 , 324.
- G- Parts lists

H- HYDRAULIC POWER PACK MOUNTING DIAGRAM



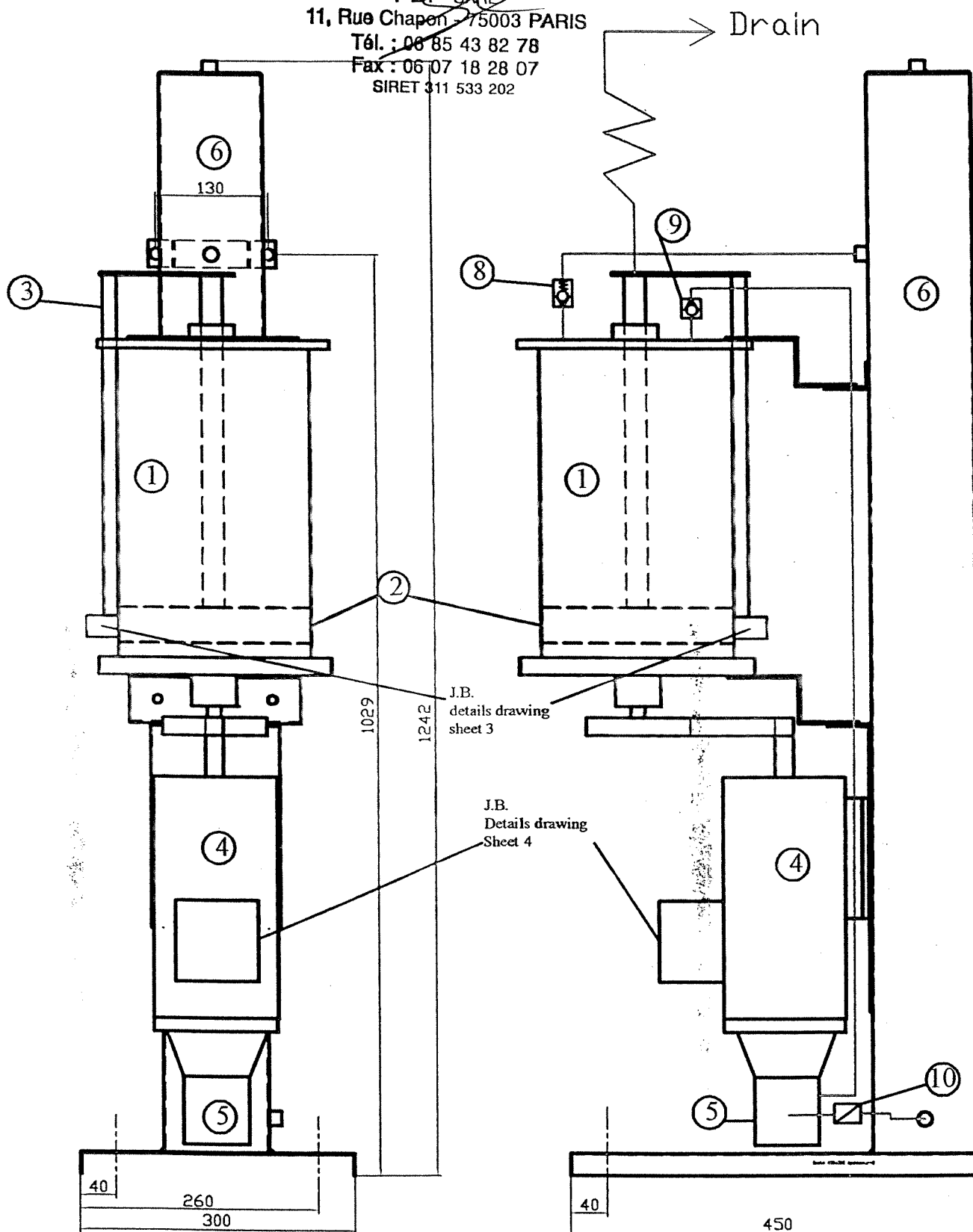
Component	Nber	Material	Provider
1 3 ways valve	1	1/4" NPT.St.St.316L	B.M.
2 Relief valve	1	1/4" NPT.St.St.316L	B.M.
3 Isolation valve	3	1/4" NPT.St.St.316L	B.M.
4 Fast coupling	2	1/4" NPT.St.St.316L	B.M.
5 Hoses	2	1/4" NPT.St.St.316L	B.M.
6 IL portable receiver	1	1/4" NPT.St.St.316L	B.M.
7 Sampling cabinet	1	GRP	B.M.
8 Heater			

APPROVED FOR
CONSTRUCTION

02 18/12/01	IS	As built	PS
01 23/11/00	AS	For approval	JB
01 23/11/00	AS	For approval	VERIF ACCEPT
MODIFICATION			
DESIGNATION			
Client BRISTOL MECI			
Sub-contractor			
Conpet rehabilitation project			
General Assembly			
AUTOMATIC SAMPLING SYSTEM			
Drawing n° 01 929 / Sheet 2 / Issue 2			

F.B.F

FBF SARL
11, Rue Chapon - 75003 PARIS
Tél. : 06 85 43 82 78
Fax : 06 07 18 28 07
SIRET 311 533 202

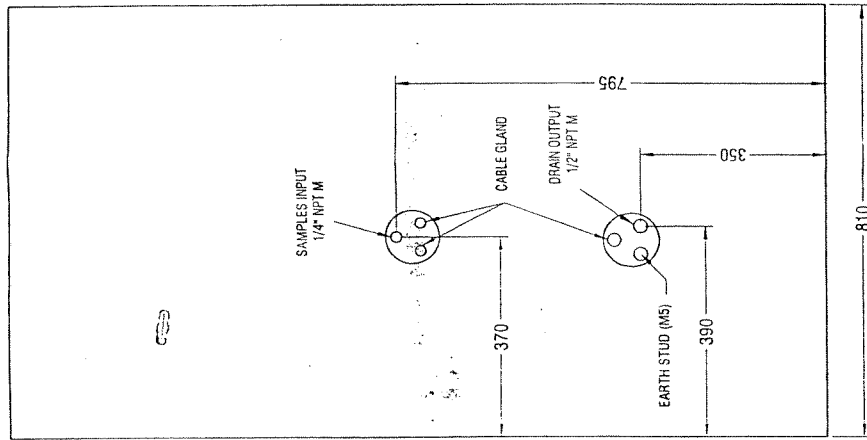


APPROVED FOR
CONSTRUCTION

1	Piston cylinder
2	Double seals and bleed piston
3	Sample level potentiometer
4	Stirrer and pump motor
5	Hydraulic circuit pump
6	Hydraulic tank
7	Mixing stirrer
8	Back pressure regulator : set pt 1 kg
9	Non return valve
10	Filter

02	19/12/01	IS	As built	PS	
01	23/11/01	LS	For approval	PB	
ISSUE	DATE	VISA	MODIFICATION		VERIF ACCEPT
Client	BRISTOL MECI			DESIGNATION AUTOMATIC SAMPLING SYSTEM RECEIVER "ISOSAMPLE 4 100" Mechanical Assembly	
Sub-contractor	Conpet rehabilitation project				
F.B.F					
This drawing property of FBF can't be reproduced or communicated to any person					
Drawing n°01 929 / Sheet 1 / Issue 2					

REAR VIEW



Technical drawing of the 1024 model, showing a side view and a top view. The side view shows a long, rectangular unit with a control panel on the right side. The top view shows a rectangular base with a central rectangular cutout and several mounting holes. Dimensions are provided in millimeters.

Dimensions (mm):

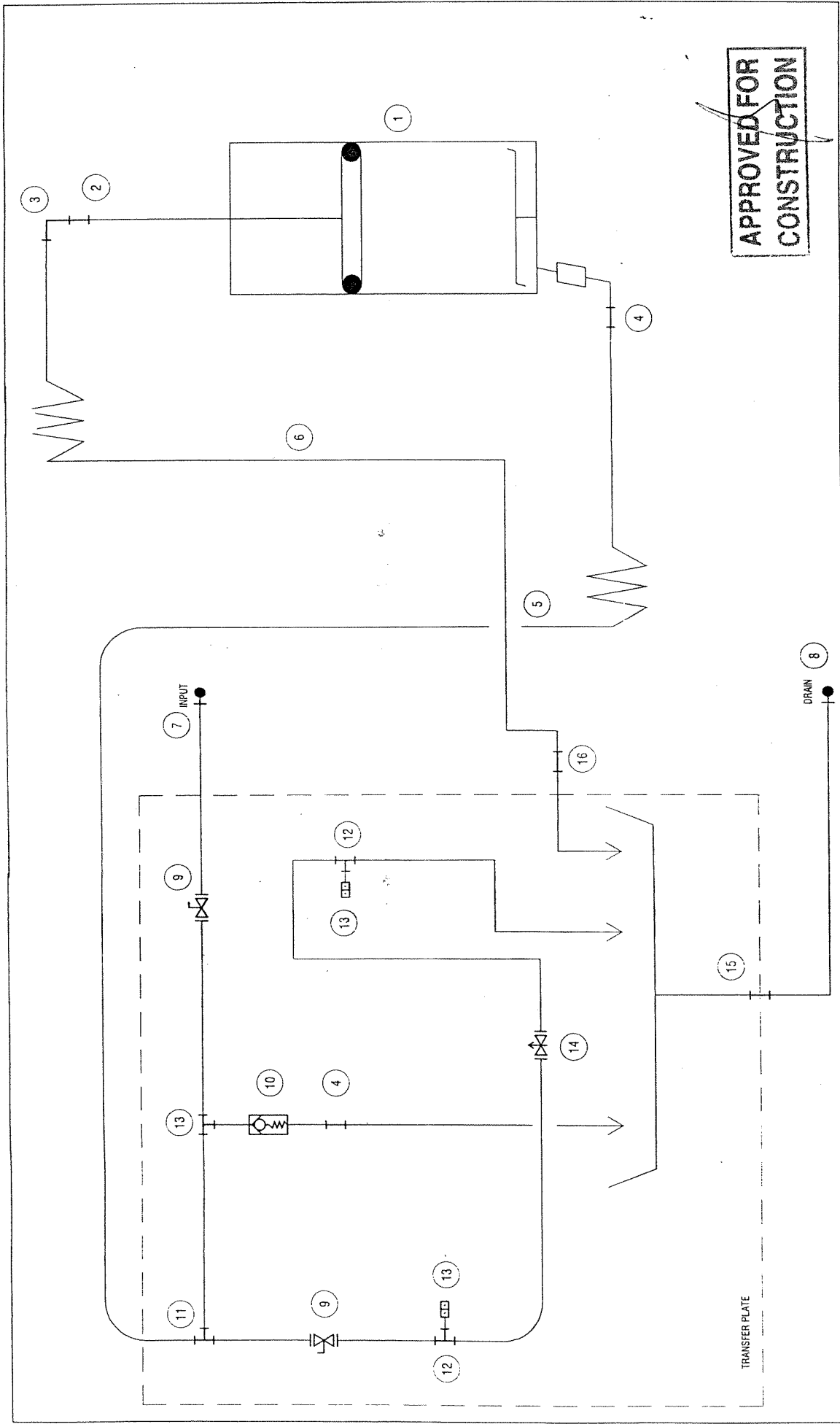
- Overall length: 1024
- Control panel width: 220
- Control panel depth: 80
- Base width: 480
- Base depth: 375
- Base cutout width: 280
- Base cutout depth: 40
- Base cutout height: 125
- Base cutout width: 130

Technical drawing of a square plate with the following specifications:

- Overall width: 630
- Overall height: 810
- Inner square dimensions: 570 (width) and 750 (height)
- Four holes, each with a diameter of $\varnothing 15$, located at the corners of the inner square.

**APPROVED FOR
CONSTRUCTION**

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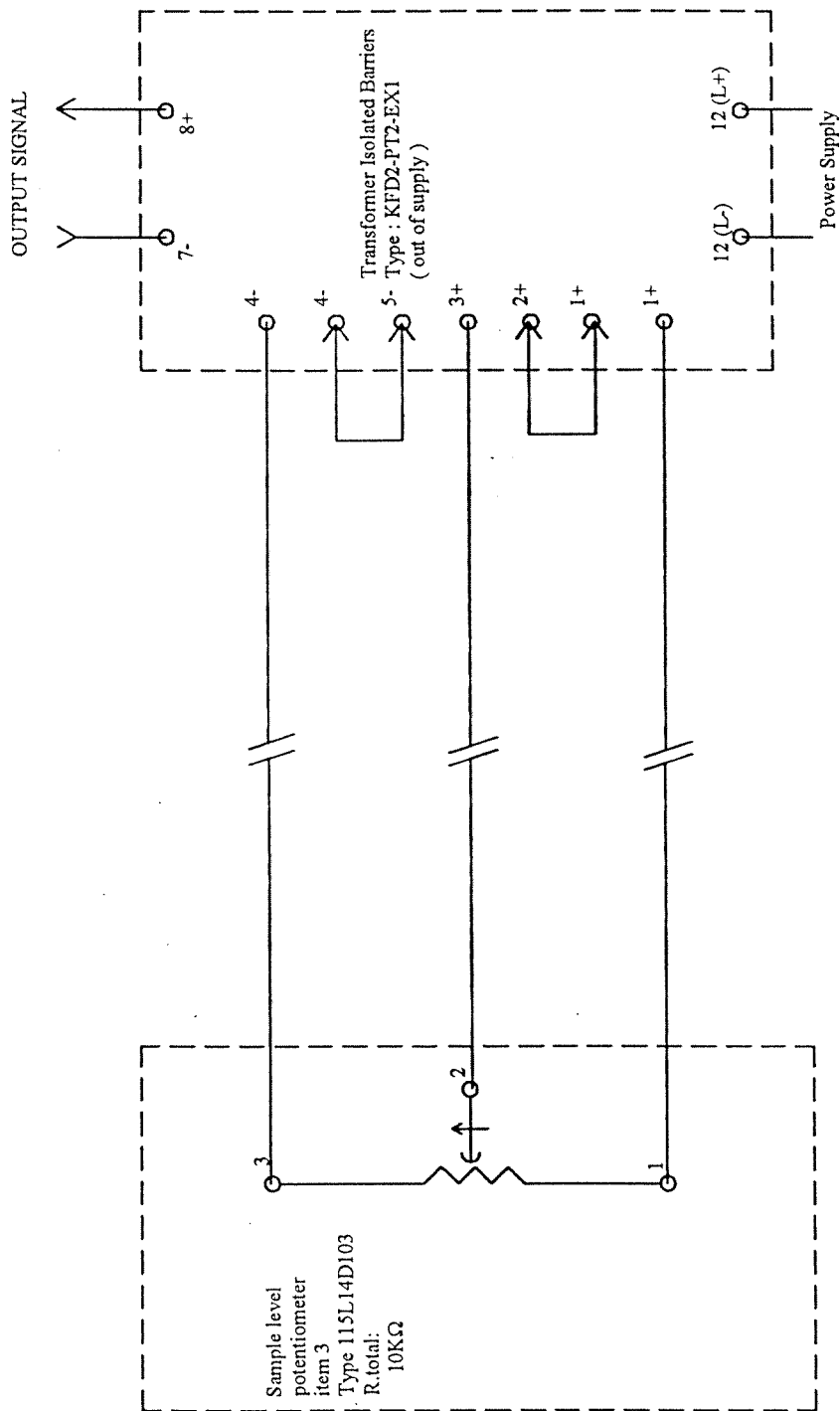
APPROVED FOR
CONSTRUCTION

ITEM	DESIGNATION	REF.	QTY
1	PISTON CYLINDER	ISO SAMPLE 4100	1
2	REDUCING 3/8" NPT M x 1/4" NPT F	SS-8-RB-4	1
3	STREET CONNECTOR 1/4" NPT M x 1/4" NPT F	SS-4-SE	1
4	FEMALE CONNECTOR 1/4" NPT x DOUBLE FERRULES 6mm	SS-6MO-7-4	2
5	HOSE INDOX/PTFE 1/4" NPT M x TUBE 6mm LENGTH 1410		1
6	HOSE INDOX/PTFE 1/4" NPT M x TUBE 6mm LENGTH 1240		1
7	BULKHEAD MALE CONNECTOR 1/4" NPT M x DOUBLE FERRULES 6mm	SS-6MO-11-4	1
8	BULKHEAD MALE CONNECTOR 1/2" NPT M x DOUBLE FERRULES 12mm	SS-12MO-11-8	1
9	BALL VALVE DOUBLE FERRULES 6mm	SS-4256MM	2
10	SAFETY VALVE 1/4" NPT M : SET PRESSURE 4.8 BARG	SS-4CP2-70	1

ITEM	DESIGNATION	REF.	QTY
11	TEE DOUBLE FERRULES 6mm	SS-6MO-3	1
12	FEMALE BRANCH TEE 1/4" NPT F x DOUBLE FERRULES 6mm	SS-6MO-3-4TFE	3
13	BULKHEAD QUICK CONNECTOR 1/4" NPT M	SS-0682-4PM	2
14	NEEDLE VALVE DOUBLE FERRULES 6mm	SS-1P55MM	1
15	MALE ELBOW 3/8" NPT MAX DOUBLE FERRULES 12mm	SS-12MO-2-6	1
16	DOUBLE UNION FERRULE 6mm	USBE-1	1

CONPET PIPELINE REHABILITATION PROJECT			
SAMPLING CABINET			
SCHEMATIC DIAGRAM			
REVISION	DATE	BY	CHKD
0	31/05/2002	S.C.	B.T.
AS BUILT			
SUBJECT OF REVISION			
MODIF DE 14 REVISION			
PROJECT N°	79027300		
N° DU PROJET			
CLIENT REF.			
REFERENCE CLIENT			
SCALE		SHEET	1/1
DATE		REVISION	0
P927300-I-304			

MECI
MECI s.a.s.
ZI La Limouise - B.P. 70
36100 ISSOUDUN - Cnclx
FRANCE



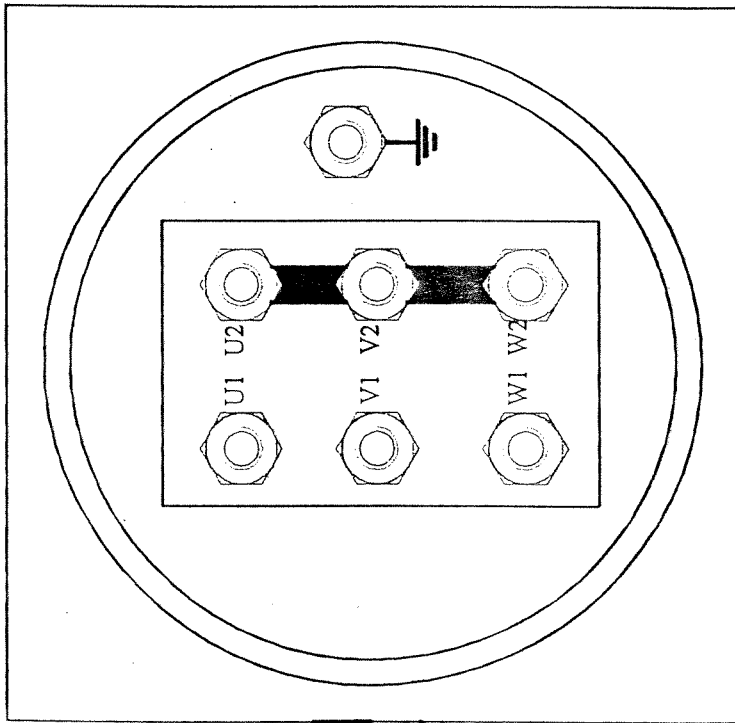
APPROVED FOR
CONSTRUCTION

02	19/12/01	IS	As built	PS	
01	22/11/00	LS	For approval	PB	
Issue	DATE	VISA	MODIFICATION	VERIFI	ACCEPT
Client	BRISTOL MECI				
Sub-contractor	Conpet rehabilitation project				
Signal Interconnection Diagram					
AUTOMATIC SAMPLING SYSTEM RECEIVER "ISOSAMPLE 4100"					
Drawing n°01 929 / Sheet 3 / Issue 2					

F.B.F

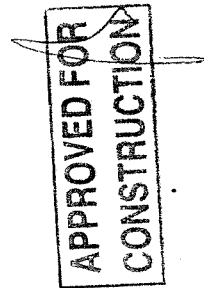
MOTOR item 4
for strirer and pump.

380V - 3 PH - ARRANGEMENT



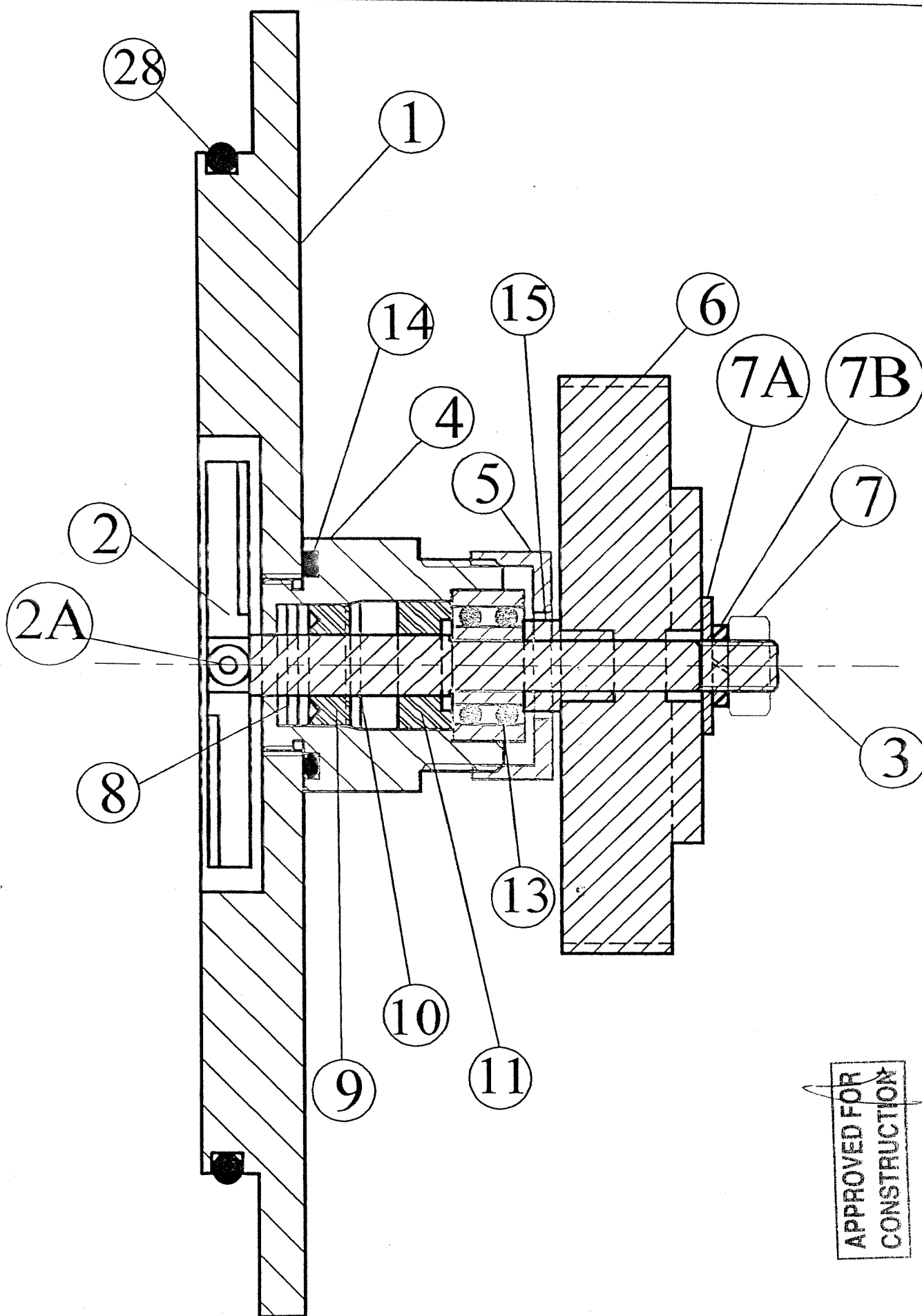
Gland for cable
6 to 12 mm

P=0.25 KW
I=0.89 A
F=50 Hz
Cos phi=0.71

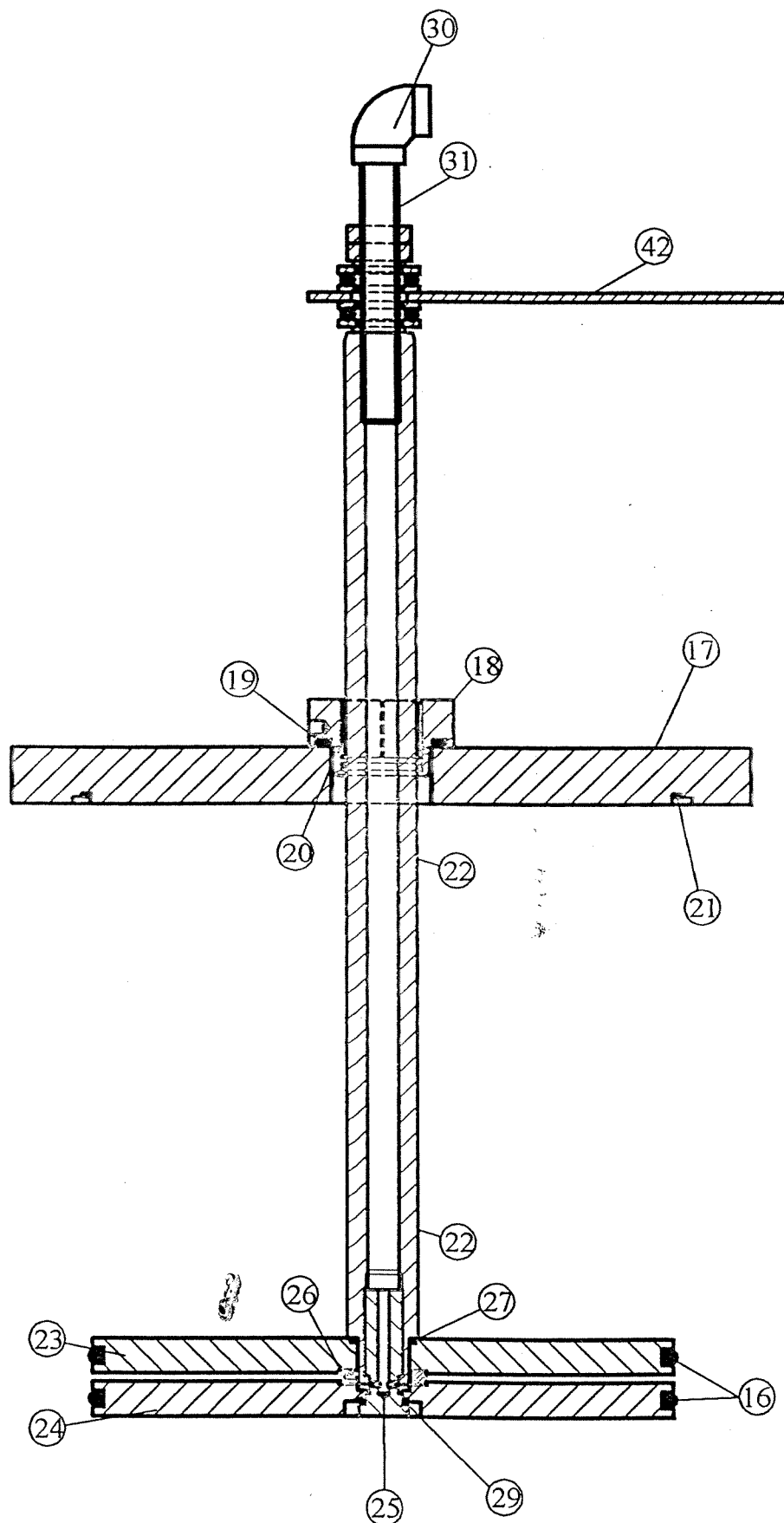


02	19/12/01	IS	As built	PS
01	23/11/01	LS	For approval	PS
ISSUE	DATE	VISA	MODIFICATION	VERIF ACCEPT
Client	BRISTOL MECI			
Sub-contractor	Conpet rehabilitation project			
F.B.F			AUTOMATIC SAMPLING SYSTEM RECEIVER "ISOSAMPLE 4100"	
			POWER SUPPLY CONNECTION	
Drawing n°01929 / Sheet 4 / Issue 2				

The drawing property of FIV and its reproduction is considered as agreement



MATIERE :	DESIGNATION	DATE : 15/05/02
ge 1 sur 5	Receiver stirrer gland detail	Plan n°: Verc 320
Echelle : 1	Indice : A	Modif:
		FBF Tél/Fax:0134173384



APPROVED FOR
CONSTRUCTION

MATIERE :

ge 2 sur 5

DESIGNATION

Receiver top assy & Piston

DATE : 15/05/02

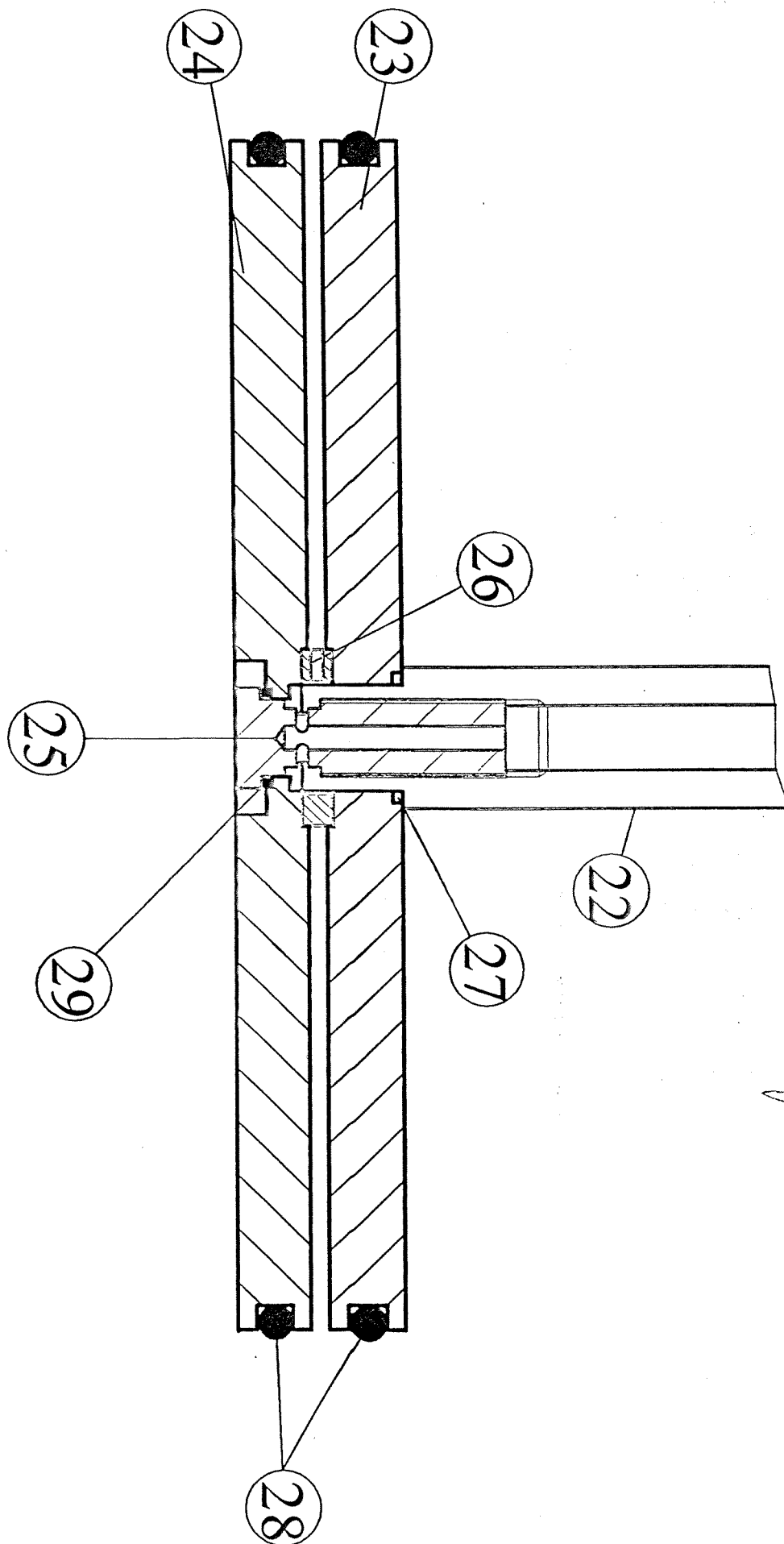
Plan n°: Verc 321

FBF Tél/Fax:0134173384

Echelle : 1/3

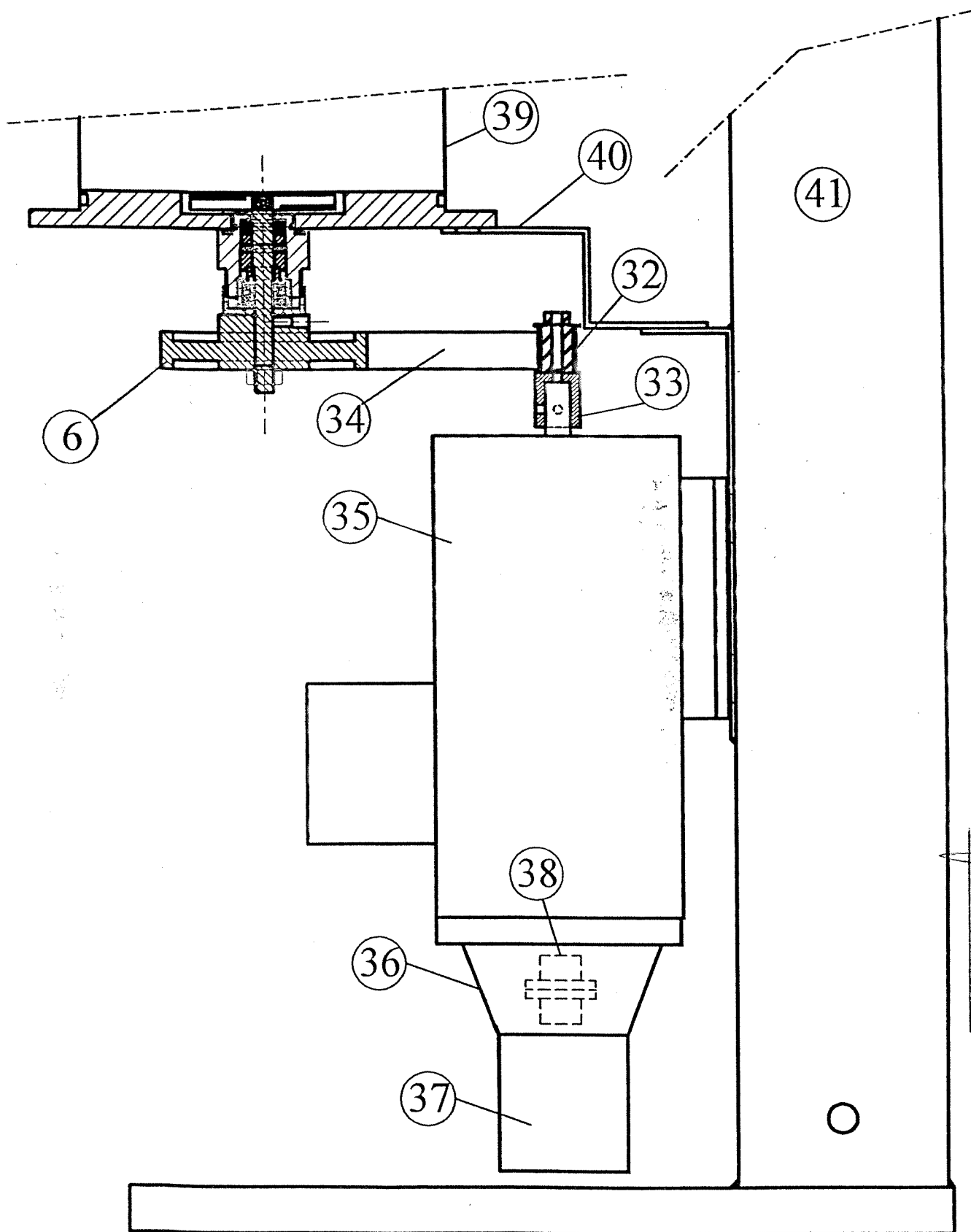
Indice : A

Modif :



APPROVED FOR
CONSTRUCTION

ACTIÈRE :	DESIGNATION	DATE : 15/05/02
ge 4 sur 5	Receiver piston assy	Plan n°: Verc 323
		FBF Tél/Fax:0134173384
Echelle : 1	Indice : A	Modif :



APPROVED FOR
CONSTRUCTION

MATIERE :	DESIGNATION		DATE : 15/05/02
Page 5 sur 5	Pump/Pulley		Plan n°: Verc 324
			FBF Tél/Fax:0134173384
Echelle : 1/3	Indice : A	Modif:	

**PISTON CYLINDER
PART LIST ENR 2001-11-202-D**

Item	Designation	Reference	Qty
4	Gland body	VERC 100	1
9	Seal adapter	VERC 110	1
11	Spacer adapter	VERC 120	1
12	Brace	VERC 130	1
13	Bearing	3200	1
10	Spring pacer	MU25x12.2x1.5	6
8	Rafter seal	TFW12x24x5.8	3
7	Nut M10 SS		1
7A	Spacer diam. 10 mm		1
7B	Spacer diam 10 ZN		1
6	Pulley	27T5 72/0	1
14	"O" Ring	35x4 83FKM592	1
35	Motor	ASAH71A/4	1
32	Motor pulley	27T5	1
34	Belt	16 T5 500	1
37	Pump	05 10 010 003	1
38	Coupling	R42	1
36	Poppet	LBS 19	1
3	Stirrer axis	VERC 140	1
	"O" Ring	24x2 83FKM592	1
	Nipple	24x27x20MB24.20	1
18	Guide axis body	VERC 150	1
1	Flange inferior	VERC 160	1
17	Flange superior	VERC 170	1

**PISTON CYLINDER
PART LIST ENR 2001-11-202-D**

Item	Designation	Reference	Qty
22	Axe	VERC 180	1
	"O" Ring 12 x 1.5	12x 1.583FKM592	1
	"O" Ring 18x2	18x283FKM592	1
25	Banjo screw ¼ SS	VERC 260	1
23	Piston superior	VERC 190	1
24	Piston inferior	VERC 200	1
26	Piston ring	VERC 210	1
39	Body	VERC 220	1
28	"O" Ring 190 x 5 – 1"1/4 Viton with PTFE layer		3
	Female cap 1/4 "	9F33	1
2	Stirrer blade	VERC 230	2
40	Support	VERC 240	2
41	Stand	VERC 250	1
	Oil	Azola 46	12L
	Fitting ¼ " G M		
42	Guide	VERC 270	1
33	Motor Pulley set	VERD 280	1
	Screw Th M5x40 SS		1
	Spacer EV Diam 5		1
	Screw SCHC M5x6 BP		2
	Back pressure regulator	550 101	1
	Non return valve	A8-001	1
	Elbow ¼ con. Diam.8	16784	5
	Elbow 3/8con. Diam.8	16786	1

	Union ¼ con.	4750	2
	Adapter ¼ “ cyl. Diam 8	2604	1

**PISTON CYLINDER
PART LIST ENR 2001-11-202-D**

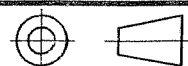
Item	Designation	Reference	Qty
	SS Tubing Dia 8x6		4
	Screw M4x20 TH AZ		2
	Screw M8x80 TH AZ		4
	Screw M8x30 TH AZ		4
	Screw M6x20 TH AZ		4
	Thread shaft M12 AZ		2
	Plate spacer Diam 8AZ		6
	Plate spacer Diam 12AZ		12
	Plate spacer Diam 10AZ		1
	Spacer EV Diam 8 AZ		6
	Spacer EV Diam 10 AZ		1
	Spacer EV Diam 12 AZ		12
	Nut M10 AZ		1
	Nut M12 AZ		12
	Spacer EV 4 AZ		4
	Level indicator 10 L	VERC 290	
	“O” Ring 200x3		1
	Potentiometer	115L-350 mm	1

**PORTABLE RECEIVER
PART LIST**

Designation	Reference	Qty
Needle valve	481- 1/4	2
Check valve	DN8 4 , 8b	1
Quick connect bodies	SS-QC6-B2-4PM	2
Quick connect Stem female	SS-QC6-S-4PF	1
Quick connect Stem male	SS-QC6-S-4PM	1
Hoze DN 6	L=600mm	1

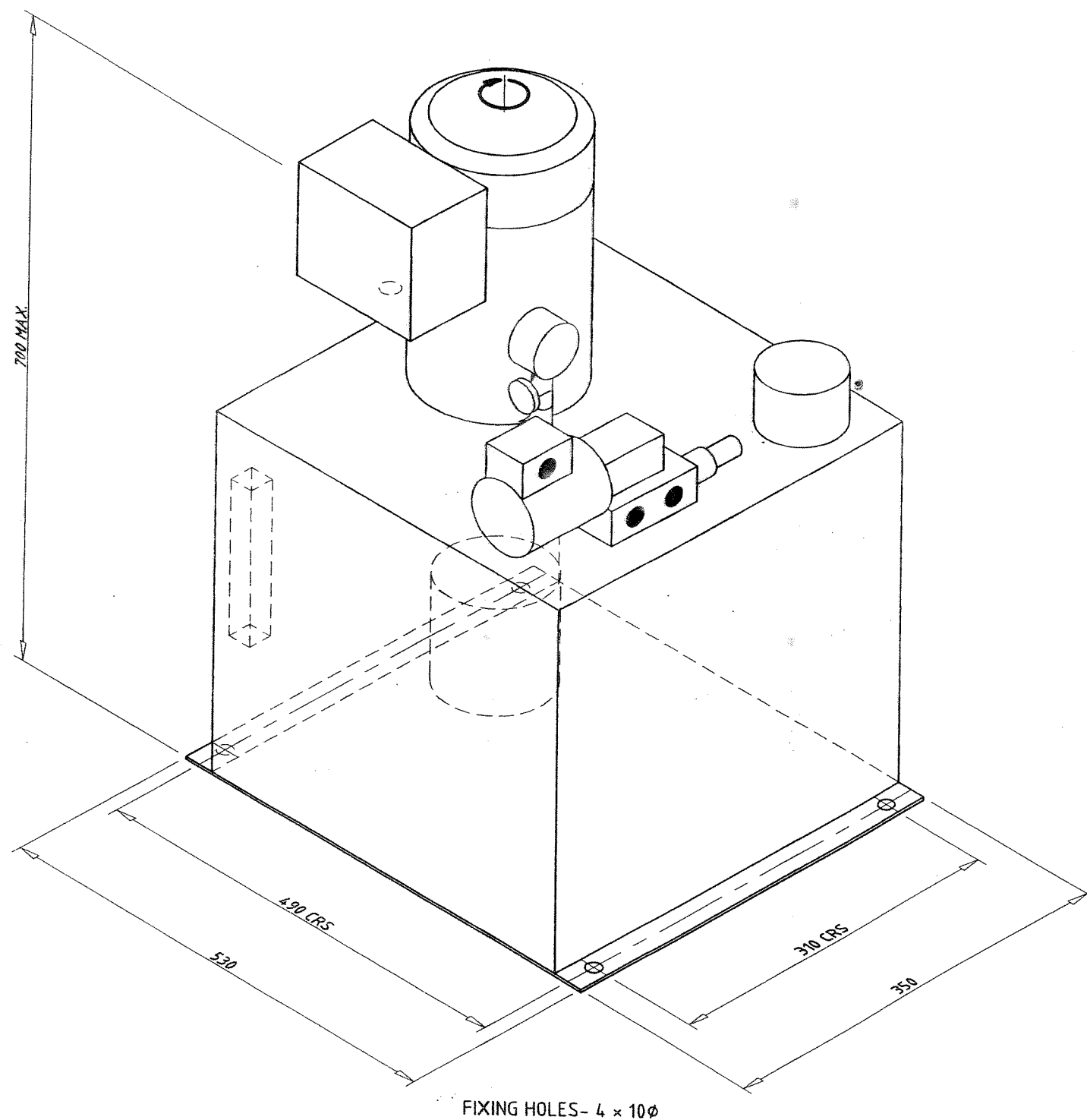
ALL DIMENSIONS IN mm UNLESS STATED

THIRD ANGLE PROJECTION

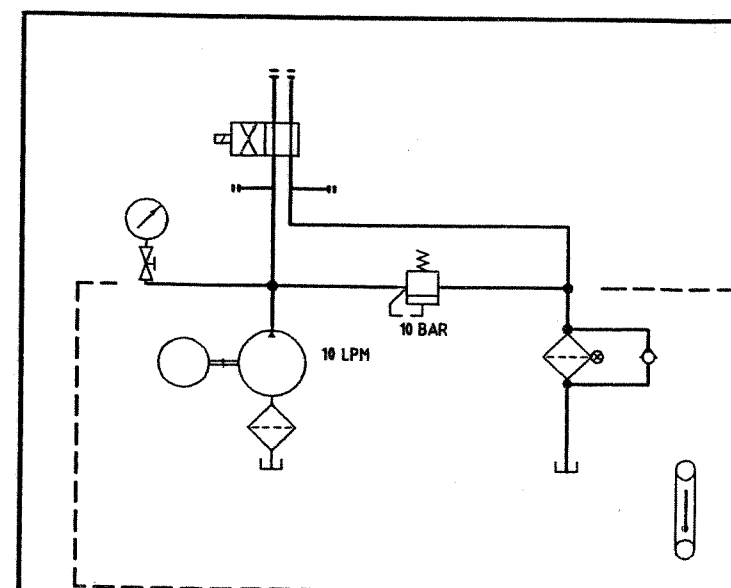


DO NOT SCALE - IF IN DOUBT, ASK

DRY WEIGHT- 55 Kg
MIN. VOLUME- 48 LITRES



APPROVED FOR CONSTRUCTION
MECI S.A.S.



Rev	Date	Description	Dr'n	Ch'kd	App'd
0	01.08.02	1st Issue	P.M.		

General Tolerances - Except
where otherwise stated
DIMENSIONS: $\pm 0.25\text{mm}$
ANGLES: $\pm 0^\circ 30'$

TAG NUMBERS Y022AP411
D040AP411
D040AP421
D047AP411
D013AP411
D003AP411
D002AP411

Cross refer to:

The Information on this print
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JISKOOT

Tunbridge Wells, Kent, U.K.

Cust Ref No.	
JAC. Ref No.	100586
Material	
Finish	

Title:
**FLUIDLINK
HYDRAULIC POWER PACK
MOUNTING DIAGRAM**

Scale 1:5	Drg No. D.27159	Rev. 0
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This is an AutoCAD



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