!!! For your safety In order to obtain higher performance of your equipment !!!

Read the instructions manual carefully

Http://www.inmes.com.br
1- INTRODUCTION

Congratulations on your purchase of the IM 300PL Master Double Miter Saw! Your machine was developed using the latest technology, to solve your finishing and productivity problems.

It gives you a perfect join, guaranteeing that you always have a squared corner.

Your IM 300PL Master Double Miter Saw arrives ready to use. However, you should take the time to read this manual in order to take full advantage of the machine’s benefits and to keep it in proper working order.

2- SPECIFICATIONS

- Weight ____________________________ 550 lbs.
- Height ______________________________ 60 in.
- Width _______________________________ 48 in.
- Depth _______________________________ 24 in.
- Maximum dimensions of moulding saw can cut ———— See graph on page 5
- Saw motors power ______________________ 1 1/2 hp
- Exhaust motor (optional) power ———————— 3/4 hp
- Light bulb strength ______________________ 60-watts (Maximum!)
- Saw blade diameter _______________________ 12 in. x 1 in.
- Bearings ——
  - Ball bearings = 6204 2RS1 (2) and 6205 2RS1 (2)
  - Conical bearings = 30204 (4)
- Belts ———— Z 900 GOODYEAR
- Calibrated table length ———————— 15 ½ in. (Optional extensions of 47 and 23 in.)

3- OPTIONAL ACCESSORIES

- Dust collector unit
- Extension tables
- Moulding clamps
TECHNICAL DIAGRAMS OF THE IM-300PL MASTER DOUBLE MITER SAW

Approximate Energy Consumption

Single phase w/ exhaust
9.71 kW/h

1 x 3/4 HP / 0.55 kW

Noise level
LpA=78dB (A)

Max. Pressure
85 psi
Uses
21l/min – 60 cycles

Output=780 m³/h = 100 mm/mc

A= 50”
B= 28”
H= 59”

616 lb

550 lb

2 x 2HP / 4.6 kW

A= 1”
B= 1 1/4”
4- COMPRESSED AIR SYSTEM

To operate your Saw, you need an air compressor with a minimum output of 2 cubic feet/minute. It can be installed using a compressor with a greater output, but not smaller.

The operating pressure should be no more than 88 psi.

5- ELECTRIC FEED

The electric line should be two-phase 220-volt, 60-hz. The light bulb under the hood should be no more than 60-watts, 110-volt.

6- "ON" AND "OFF" SWITCHES, SAFETY CONTROLS

There is a switch on the lower front of the Saw (Figure 1-01). This switch, which has two positions, "0" for OFF and "1" for ON, should be left in the "0" position whenever the Saw is not being operated. In the "0" position the current is turned off to the entire machine, allowing an electrician to perform maintenance in safety, if necessary. Only this switch’s terminals to the electric feed will be "live". When you are ready to use the Saw, turn this switch to the "1" position.

There is a RED EMERGENCY STOP button on the control panel (Figure 1-02). If a problem arises during operation that requires immediate action, pushing this button will instantly cut off the electric current to the saw blade motors. After the problem has been resolved, in order to turn the machine back on, turn the emergency button to the left and push the "ON" button (Figure 1-04).

7- OPERATION

The operator must first select the type of moulding and size frame to be cut.

The clamp can be adjusted as shown in Figure 3. The clamps (3-02) should be set in the preset position no more than 3/8" above the moulding. This adjustment is made using the handles (3-04), which secure the clamps. It is important that both clamps be set at the same height, so that they exert equal pressure on the moulding when they descend. Your Saw comes with the clamp adjusted to release the moulding after it is cut. Then the clamp returns to its original position.

The moulding stop on the right (Fig. 4-02), which determines the length of the stick cut, is adjusted as shown in Figure 4, using the handle (4-03) of the stop, which runs on the ruled table (4-04). The stop can be used on the left side of the Saw as well as the right side. Move the stick (Fig. 4-01) to the right until the corner on the inside of the rabbet reaches the value on the calibrated rule (Fig. 4-04) equal to the length desired. Then move the stop (Fig. 4-02) until it rests against the end of the moulding, and lock it in place with the handle (Fig. 4-03). The extension tables allow you to cut sides up to 7-1/2 feet long.

The calibrated rule on the table is divided in 1/8" increments, in distinctive colors to facilitate measurements. Cut a small piece with the left blade, to create the base for the following cuts. To LOWER THE LEFT BLADE to cut, step on the left foot pedal, holding it down until the cut is completed. Then release the pedal for the blade to return to its original position.
After making the first cut, for safety reasons, it is recommended that you turn off the machine to make your adjustments, using the red "OFF" button (Fig. 1-03).

Once you have adjusted the pressure clamps and the stop, turn on the Saw again and make your first cut. Watch that the clamps are properly adjusted. Then stop, turn off the Saw and check that the length is correct.

The blades may be lowered individually by stepping on only the desired pedal, left or right. Both blades may be lowered by stepping on both pedals together. The blades are lowered individually when cutting exceptionally large profiles, to keep loss of product down.

The quality of the finish is determined by the speed of the lowering of the blade and the size and thickness of the profile being cut.

To adjust the speed of the blade arm, use the compressed air regulator control knobs (Figure 2-02 and 03) on the control box. The right knob controls the right saw blade arm and the left knob the left blade arm. To increase the speed of the blade's descent, turn the knob to the left (counterclockwise); to decrease the descent speed, turn the knob to the right (clockwise). A slower speed will give you a better quality cut finish. The adjustment should vary with the size and composition of the moulding. However, do not slow the descent to the point where you are burning the wood, giving it a dark color.

A light bulb is installed inside the hood of your Saw, allowing you a clear view of the interior. You turn it on using the switch 01 shown in Figure 2.

8- CAUTION DURING OPERATION

When making his first cut, the operator should take care with regard to the adjustment of the moulding clamp, because if it is not holding the stick with sufficient pressure, the stick may be violently drawn into the interior of the machine by the blade’s rotation, damaging the machine.

For your safety, the Saw is adjusted at the factory to only operate when the hood is in the lowered position.

9- SIZES OF MOULDINGS THAT CAN BE CUT

Your IM300PL Master Double Miter Saw can cut mouldings with a maximum width of 5-5/8", and a maximum height of 3-1/4". ATTENTION! Any moulding profile that fits inside the limits on the graph in the diagram showing the cut parameters (Fig. 5) can be cut. The red line represents the path that the blades' bushings follow as the blade descends.

10- BELT ADJUSTMENT

From time to time it may become necessary to tighten the belts (Fig. 6-03) that drive the blades.

To make this adjustment, use a 13-mm. wrench to loosen the four bolts (Fig. 6-02). Then push the motor (Fig. 6-01) back to tension the belt to your satisfaction, and then tighten the bolts. The belt should not be too tight. It has the proper tension when the distance the belt moves, upon pushing against the middle of the belt with your finger, is about 3/8".

To put in a new belt, pull the motor forward to loosen the belt first.
11- TIGHTENING THE SAW BLADE ARM

If the Saw blade arm shows signs of loosening, tighten it by adjusting the bearing caps of the arm joint (Fig. 7-02).

As shown in Figure 6, first loosen the three headless bolts (Fig. 6-03) using a 2.5 mm. Allen wrench. (It is only necessary to loosen them a minimum amount.)

Then proceed to tighten the bolts with heads (Fig. 6-05), still using the 2.5 mm Allen wrench, each a little at a time so that the cap is remains in alignment with the shaft.

Finally, if the blade arm does not show any more play, retighten the headless bolts (Fig 6-03), and secure them in place by tightening their locknuts. In this way more pressure is exerted against the bearing, eliminating the play.

12- REMOVING BLADES - IMPORTANT!

When removing the saw blade to replace or sharpen it, care should be taken that the nut is rotated in the proper direction.

To loosen the blade, the nut is rotated towards the front of the machine, in the same direction as the blade’s rotation when cutting. To tighten the blade, the nut is rotated towards the back of the machine, in the opposite direction of the blade’s rotation. Insert a 6 mm. Allen wrench in the end of the blade shaft to hold it in place when loosening or tightening the nut that holds the blade in place.

Be careful not to mix up the nuts if both blades are removed at the same time. Trying to thread the wrong nut on the shaft will damage the threads.

13- MAINTENANCE

Taking a few preventive measures can help you avoid most maintenance problems:

a) Lubrication – There are two grease jets on your saw, one on each of the saw blade arm joints. You should lubricate the bearings in the blade arms with a grease gun every two weeks.

b) Compressed air – Check several times during operation that the air pressure is within the limits specified in the manual.

c) Cleaning – Keep your saw clean. Blow the dust off of the machine regularly. It is recommended that you aspirate the control panel with a vacuum.

d) General – Upon receiving the saw, and on a regular basis, you should check the bolts which attach the control panel to the body; since vibration during transport and operation can loosen them. You should occasionally check all of the bolts on your saw for tightness.
*PRESSURE SET IM.300PL MASTER 0101025 (OPCIONAL)

- 0408009
- 0407033
- 0408016
- 0302084
- 0407028
- 0408026
- 0302027
- 0302026
- 0302028
- 0407095
- 0302029
- 0302045
- 0302030
- 0302048
- 0407005
- 0407006
Saw Assembly – Left Side
Componentes

0.1 → Filter Regulator
1.1 → Valve Pedal NI 5103–5118–000
1.2 → Valve Pedal NI 5103–5118–000
1.3 → Valve Roller M43303R
1.4 → Valve Roller M43303R
1.5 → Valve Regulator of Outlet
1.6 → Valve Regulator of Outlet
1.7 → Element "OU" 5.3005
1.8 → Silencer Whit Regulator of Outlet
2.1 → Cylinder ISO 40x100mm
2.2 → Cylinder ISO 40x100mm
2.3 → Cylinder ISO 32x25mm
3.0 → Vacuum Generator PSV–CSNO2A1 1/8"
3.1 → Valve Pilot 43602 P
3.2 → Valve Plug 219P–2 1/8"
3.3 → Valve Retention C200B 1/8"
0.2 → Cut Liquid Reservoir

*OBS => The Elements Between the Traced Lines are Optional
Apresentação

Filtro/Regulador é a combinação do Filtro com Regulador de Pressão. O Filtro/Regulador tem por função filtrar e regular o ar para a pressão desejada com a mesma eficiência obtida pelos Filtro e Regulador separados.

Presentation

The Filter-Regulator is a combination of the Filter with the Pressure Regulator. The function of the Filter-Regulator is to filter and regulate air to the required pressure with the same efficiency as that of the Filter and Regulator, separately.

Características Técnicas

- Conexões: 1/8” e 1/4”
- Tipo da Rosca: NPT ou BSP
- Material do Copo: Policarbonato
- Elemento Filtrante: 5µ ou 40µ
- Tipo de Dreno: Manual ou Automático
- Temperatura de Trabalho: -10°C a +50°C (14°F to 122°F)
- Pressão Máxima na Entrada: 10 bar (150 psig)
- Pressão Secundária: 0 a 2 bar (0 a 30 psig)
  0 a 4 bar (0 a 60 psig)
  0 a 8 bar (0 a 90 psig)
- Vazão Máx. à 7 bar na entrada: 14 dm³/s (Except for 1/8” and for pressure of 0 to 2 bar, where maximum flow will be 10 dm³/s).
- Peso: 0,115 kg

Technical Information

- Ports Sizes: 1/8” and 1/4”
- Type of Thread: NPT or BSP
- Bowl Material: Polycarbonate
- Filtering Element: 5µ or 40µ
- Type of Drain: Manual or Automatic
- Temperature Range: -10°C to +50°C (14°F to 122°F)
- Max. Inlet Pressure: 10 bar (150 psig)
- Secondary Pressure: 0 to 2 bar (0 to 30 psig)
  0 to 4 bar (0 to 60 psig)
  0 to 8 bar (0 to 90 psig)
- Maximum Flow at 7 bar at Inlet: 14 dm³/s (Except for 1/8” size and for pressure from 0 to 2 bar, where maximum flow will be 10 dm³/s).
- Weight: 0,115 kg

Recomendações

Aplique graxa de silicone ou vaselina em todas as guarnições:
- Limpe as peças com água e sabão neutro;
- Não utilize panos, estopas ou similares na secagem das peças.
- Não instale o Filtro/Regulador em locais que possam expor o copo aos seguintes elementos:
  • Solventes em geral
  • Óleo de mamona
  • Óleos compressores
  • Álcool etílico
  *Não Use Álcool para Limpar*

Warning

- Apply silicone grease or vaseline in all seals;
- Clean parts with water and neutral soap;
- Do not use cloth or rags to dry parts;
- Use clean air to prevent tube clogging;
- Do not install Filter-Regulator where bowl may be exposed to the following elements:
  • Solvents in general
  • Castor-oil
  • Compressive oils
  • Ethylic Alcohol
  • Methylic Alcohol
  • Gasoline
  • Varnish

Estocagem

Os produtos deverão permanecer embalados enquanto estiverem estocados. O ambiente de armazenamento deve ser seco, limpo, arejado e isento de produtos químicos ou elementos que possam atacar o material do produto. Na estocagem do Filtro/Regulador, certifique-se de que a manopla esteja livre, ou seja, não tensionando a mola interna.

Storing

Products should be kept packed while stored. Storing area should be dry, clean, ventilated and free from chemical products or elements which may attack product material. When storing Filter-Regulator, be sure that control knob is free, i.e., not compressing internal spring.

Instalação

Procedimento para instalação:
- Retire os tampões das rosas.
- Instale o Filtro/Regulador na direção indicada, com o copo para baixo.
- Libere a rosca do corpo do regulador e introduza o manômetro, apertando-o.
- Suspenda a manopla para liberar o controle, girando-a no sentido anti-horário até que a mola de pressão esteja livre de compressão.
- Ligue o suprimento de ar.
- Turn control knob clockwise to regulate pressure level, which can be with or without air flow. With pressure adjusted, push control knob to lock it.

Installation

Procedure for installation:
- Remove thread caps.
- Install Filter-Regulator in the indicated direction with bowl downwards.
- Lift knob to release control, turning it counter-clockwise until pressure spring is free from compression.
- Turn on air supply.
- To reduce pressure, unlock and turn knob counter-clockwise until it is below the new desired level. Then, adjust pressure control knob to lock it.
Fixação do Conjunto

Filtro/Regulador ao Lubrificador
Sem Suporte: Kit P3A-KA00CDN
Com Suporte: Kit P3A-KA00CDN + P3A-KA00CWN

Mounting

Filter/Regulator to Lubrificator
Without Mounting Bracket: Kit P3A-KA00CDN
With Mounting Bracket: Kit P3A-KA00CDN + P3A-KA00CWN

Fixação do Filtro/Regulador

Fixação com Suporte Pescoço
Kit com Porca Metálica: P3A-KA00MSN
Kit com Porca Plástica: P3A-KA00MRN

Filter/Regulator Mounting

Mounting with “Neck” Ring Bracket
Kit with Metal Nut: P3A-KA00MSN
Kit with Plastic Nut: P3A-KA00MRN

Fixação Unitária do Filtro/Regulador
Suporte para Parede: Kit P3A-KA00CWN
Porca Metálica para Painel: Kit P3A-KA00MMN
Porca Plástica para Painel: Kit P3A-KA00MPN

Filter/Regulator Unit Mounting

Wall Mounting Bracket: Kit P3A-KA00CWN
Metal Nut for Panel: Kit P3A-KA00MMN
Plastic Nut for Panel: Kit P3A-KA00MPN

Versão/Version

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Com Dreno Manual</td>
<td>101</td>
<td>165</td>
</tr>
<tr>
<td>With Manual Drain and Short Bowl</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Com Dreno Manual e Copo Longo</td>
<td>125</td>
<td>188</td>
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<tr>
<td>With Manual Drain and Long Bowl</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Com Dreno Semi-Automático (Filtro)</td>
<td>94</td>
<td>158</td>
</tr>
<tr>
<td>With Semi Auto-Drain (Filter)</td>
<td></td>
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Dimensões/Dimensions:

- Ø28.0
- M30 X 1,5
- 40

Dimensões em mm
Dimensions in mm

- 50,75
- 40,0
- 11,0
- 5,5
- 11,0
- 44,25
- 31,0
- 9,0
- 30,0
- 15,0
- 4,5
- 12
- 5
- 5
- 1,6
Manutenção
Para bom e permanente desempenho deste produto, ele deve sofrer limpezas periódicas e manutenção preventiva. Proceda com seguinte:

Maintenance
To get good and permanent performance of this product, it needs periodical cleaning and preventive maintenance. Proceed as follows:

1. Feche o suprimento de ar
   Shut air supply

2. Descarregue o circuito (Figs. 1 e 2)
   Unload circuit (Figs. 1 and 2)

3. Abra o dreno (Fig. 3)
   Open drain (Fig. 3)

4. Retire o manômetro (Basta desrosqueá-lo)
   Remove gauge (unscrew)

5. Desmonte o refil (Figs. 4, 5 e 6)
   Disassemble Filter-Regulator (Figs. 4, 5 and 6)

6. Lave as peças com água e sabão neutro
   Wash parts with water and neutral soap

7. Seque somente com ar comprimido
   Dry with compressed air only

8. Troque as peças integrantes do kit de reparo
   Change parts which make up Repair Kit

9. Remonte o refil (siga o processo inverso ao item 5)
   Re-assemble Filter-Regulator (follow reverse order as shown in item 5)

10. Recoloque o manômetro
    Replace gauge

11. Feche o dreno
    Close drain

12. Ligue o suprimento de ar
    Turn on air supply

13. Regule a pressão e trave a manopla (Figs. 7 e 8)
    Adjust pressure and lock control knob (Figs. 7 and 8)

14. Teste
    Test

- Para filtro com dreno automático, não considere os itens 3 e 11.
- For filter with auto drain, don't consider items 3 and 11.

- Abra o dreno, girando-o no sentido da seta.
- Open drain, turning it according to arrow direction.

- Evite torque excessivo na fixação.
- Avoid excessive torque when mounting.
Kit de Reparo
Filtro/Regulador com Sangria: Ref.: P3A-KA00RE
Filtro/Regulador sem Sangria: Ref.: P3A-KA00RG

Repair Kit
- Relieving Filtro/Regulator: Part nº: P3A-KA00RE
- Non Relieving Filter/Regulator: Part nº: P3A-KA00RG

Referências/Part Numbers

<table>
<thead>
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<th>Item</th>
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<th>Descrição/Description</th>
<th>Referência/Part Nº</th>
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<tr>
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<td>01</td>
<td>Conjunto Haste e Assento Stem and Seat Assembly</td>
<td>1569-500</td>
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<td>C</td>
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<td>Mola/Spring</td>
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* Somente para refil com sangria/* Only for relieving Filter-Regulator
Apresentação
Os equipamentos pneumáticos devem ser lubrificados convenientemente por meio do próprio ar comprimido para diminuir os efeitos desgastantes, as forças de atritos e facilitar os movimentos.
O Lubrificador é utilizado para lubrificação das partes mecânicas internas móveis que estão em contato direto com o ar. Esta deve ser efetuada de forma controlada para não causar obstruções na passagem de ar.
O Lubrificador faz com que o lubrificante seja nebulizado na corrente de ar e chegue a todos os componentes de instalação.

Presentation
Pneumatic equipment has to be properly lubricated with compressed air to reduce waste, friction and facilitate movement. The lubricator is used to lubricate moving internal mechanical parts which are in direct contact with air. It has to be controlled in order to avoid obstruction to the air flow.
The lubricator ensures that lubricant is nebulized in the air flow and reach all components in the installation.

Características Técnicas
- Conexões: 1/8" e 1/4"
- Tipo da Rosca: NPT ou BSP
- Tipo de Dreno: Manual
- Material do Copo: Policarbonato
- Temperatura de Trabalho: -10°C a +50°C (14°F to 122°F)
- Pressão Máxima na Entrada: 10 bar (150 psig)
- Vazão Máxima: Ø 1/8" - 13 dm³/s
- Ø 1/4" - 18 dm³/s
- Óleo Recomendado: ISO VG 10
- Peso: 0,08 kg

Recomendações
- Utilize sempre óleo e ar limpos;
- Mantenha o lubrificador sempre abastecido;
- Na limpeza das peças, utilize apenas água e sabão neutro;
- Não use panos, estopas ou similares na secagem das peças.

Warning
- Always use clean oil and clean air.
- Keep Lubrificator always filled up.
- Use only water and neutral soap to clean parts.
- Do not use cloth or rags to dry parts.

Estocagem
Os produtos deverão permanecer embalados enquanto estiverem estocados.
O ambiente de armazenagem deve ser seco, limpo, arejado e isento de produtos químicos ou elementos que possam atacar o material do produto.

Storing
Products should be kept packed while stored. Storing area should be dry clean, ventilated and free from chemical products or elements which may attack product material.

Instalação
Procedimento para instalação:
- Retire os protetores, instale o copo para baixo na direção indicada no corpo do lubrificador e, se possível, acima e bem próximo ao equipamento a ser lubrificado;
- Retire o copo, abasteça-o e rosquei-o novamente;
- Ligue o suprimento de ar;
- Ajuste a manopla reguladora de óleo (não aperte exessivamente). A regulagem pode ser vista pelo regulador transparente.

Installation
Procedure for installation:
- Remove protecting caps and install bowl in the direction indicated in the body of Lubricator and, if possible, above and close to the equipment to be lubricated.
- Remove bowl, fill it up and screw it again.
- Turn on air supply.
- Adjust oil control knob (do not tight it too hard). Regulation can be seen through sight dome.
Fixação do Conjunto

**Lubrificador ao Regulador ou ao Filtro/Regulador**

Sem Suporte: Kit P3A-KA00CDN  
Com Suporte: Kit P3A-KA00CDN + P3A-KA00CWN

**Lubrificador ao Filtro**

Sem Suporte: Kit P3A-KA00CEN  
Com Suporte: Kit P3A-KA00CEN + P3A-KA00CWN

**Mounting**

**Lubrificador to Regulator or to Filter-Regulator**

Without Mounting Bracket: Kit P3A-KA00CDN  
With Mounting Bracket: Kit P3A-KA00CDN + P3A-KA00CWN

**Lubrificator to Filter**

Without Mounting Bracket: Kit P3A-KA00CEN  
With Mounting Bracket: Kit P3A-KA00CEN + P3A-KA00CWN

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**Dimensões/Dimensions**

<table>
<thead>
<tr>
<th>Versão/Version</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
</table>
| Com Dreno Manual  
*With Manual Drain and Short Bowl* | 101 | 165 |
| Com Dreno Manual e Copo Longo  
*With Manual Drain and Long Bowl* | 125 | 188 |
| Com Dreno Semi-Automático (Filtro)  
*With Semi Auto-Drain (Filter)* | 94 | 158 |
<table>
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| Com Dreno Manual  
*With Manual Drain and Short Bowl* | 101 | 153 |
| Com Dreno Manual e Copo Longo  
*With Manual Drain and Long Bowl* | 125 | 177 |
| Sem Dreno  
*Without Drain and Short Bowl* | 88,5 | 140 |
| Sem Dreno e Copo Longo  
*Without Manual Drain and Long Bowl* | 112,5 | 165 |

Dimensões em mm  
Dimensions in mm
Fixação Unitária do Lubrificador
Suporte de Parede: Kit P3A-KA00CWN

Manutenção
Para bom e permanente desempenho deste produto, ele deve sofrer manutenções periódicas.
Proceda como segue:

1. Feche o suprimento de ar da linha
   Shut air supply
2. Remova o copo (Fig. 1)
   Remove bowl (Fig. 1)
3. Lave com água e sabão neutro
   Wash it with water and neutral soap
4. Seque o copo somente com ar comprimido
   Dry bowl with compressed air only
5. Abasteça, até o nível máximo, com óleo ISO VG 10 (Fig. 2)
   Fill it up to the maximum level, with ISO VG 10 oil (Fig. 2)
6. Troque as vedações
   Change seals
7. Recoloque o copo
   Replace bowl
8. Religue o suprimento de ar
   Turn on air supply
9. Regule o fluxo de óleo para 2 a 3 gotas/min. (Fig. 3)
   Adjust oil flow to 2 to 3 drops/min. (Fig. 3)
10. Teste
    Test

Lubrificador Unit Mounting
Wall Mounting Bracket: kit P3A-KA00CWN

Fig. 1
Fig. 2
Fig. 3

Figures:
1. Bowl assembly
2. ISO VG 10 oil level
3. Oil flow adjustment
Kit de Reparo  
Ref. P3A-KA00RL

Referências/Parts Numbers

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<thead>
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<th>Descrição/Description</th>
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<td>Guarnição Chata/Flat Seal</td>
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<td>3454-6</td>
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<tr>
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