

Save Money 省钱

Proactive Maintenance 主动维护

Oil Contamination Control 油液污染控制

现在您可以使用下列产品，现场检测您的油液了：

EZ-油液清洁度检验仪

油液清洁度指示器

EZ-黏度检验仪

油液黏度指示器

Now you can check your oil onsite with

EZ-OilClean Check

oil cleanliness indicator

EZ-Visco Check

oil viscosity indicator



现在您能够现场检验您的油样,快速和便捷

EZ-油液清洁度检验仪

二年质量保证

以色列制造

专利保护

便携式油液清洁度指示器



在液压系统、轴承、齿轮箱和发动机中,油液的颗粒污染是磨损和失效的主要原因,重要的是要知晓您的油液的清洁度等级并且做出一切努力保持油液的清洁。

EZ-油液清洁度检验仪是专门开发的便携式指示器,用于维护人员检测任何流体清洁度的变化,作为预维护的一部分。

优点

EZ-油液清洁度检验仪小巧而轻便,并且能够使用管接头很容易地连接至任何系统。它是一种机械式的仪器,不需要任何电源,它能够用在现场,即刻提供有关油液状况的信息,它只需要几分钟就能检验出油样的ISO和NAS清洁度等级。有2个品种用于低压和高压系统,能够提供在线分析或对瓶装油样的分析。定期的油液清洁度检测和正确的措施将延长设备的寿命和降低运行成本。



特性

- 孔隙阻塞技术
- 小巧和轻便
- 在线检测和瓶装油样检测
- 不受流体中水分/空气的影响
- 能够检测黑色流体
- 便于现场连接
- 完全机械式
- 低压和高压品种

用途

- 润滑油, 液压油
- 液压系统, 齿轮箱, 发动机
- 过滤器检测
- 轧钢, 造纸
- 塑料工业
- 造船业, 离岸作业
- 采矿, 越野
- 军事, 航空和航天

使用EZ-油液清洁度检验仪您能够随时随地检测油液的清洁度等级。在线检测将有助于您迅速发现油液的实际状况,并且实现更好的污染控制。

技术规格

- 压力范围 40-3500psi (3-240bar), 6000psi (400bar)
- 流体温度 80°C
- 流体相容性 液压油, 特种液压工作油选项, 水乙二醇, 其他
- 黏度 在试验温度下达150 cSt
- 范围 ISO 22/20/17 – 16/14/10 , NAS 11- NAS 5
- 密封件 丁腈橡胶,氟橡胶,其他
- 重量 低压品种-600克,高压系统-6千克
- 尺寸 仪器285×60×60 mm
高压盒460×340×150 mm
- 管接头 M16×2, 其他
- 刻度 ISO, NAS, 彩色温标,其他

订货资料

说明

EZ-油液清洁度检验仪指示器-4 bar检测压力

EZ-油液清洁度检验仪套件-4 bar检测压力

高压油液清洁度检验仪-240 bar

EZ-LAB用于瓶装油样检测

件号

I H S-OC

I H S- OC-KIT

I H S-HPOC-240bar

I H S-OC-LAB



在线低压检验仪



在线高压检验仪



瓶装油样检测

现在您能够现场检验您的油样,快速和便捷

EZ-油液清洁度检验仪

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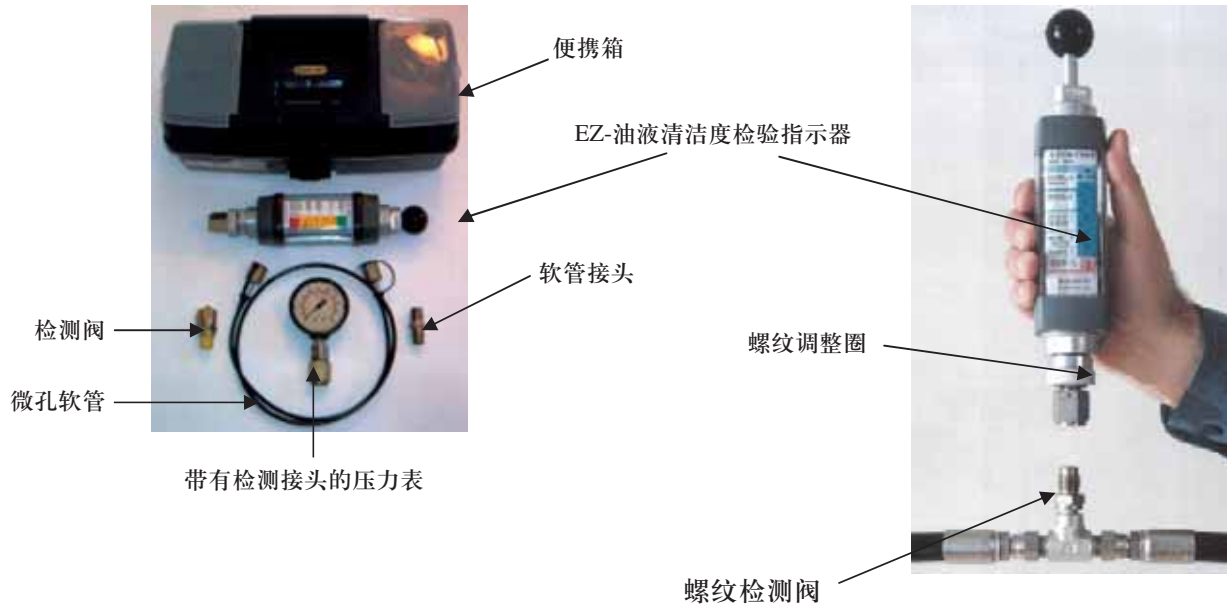
EZ-油液清洁度检验仪套件包括你需要用于4 bar压力下进行油液清洁度检验的所有部件：

- EZ-油液清洁度指示器4 bar
- 微孔软管，1m长
- 螺纹检测阀
- 远程测量接头
- 带有螺纹接头的压力表
- 便携箱



使用**EZ-油液清洁度检验仪**您能够随时随地检测油液的清洁度等级。在线检测将有助于您迅速发现油液的实际状况，并且实现更好的污染控制。

EZ-油液清洁度检验仪-4 bar试验压力 使用说明

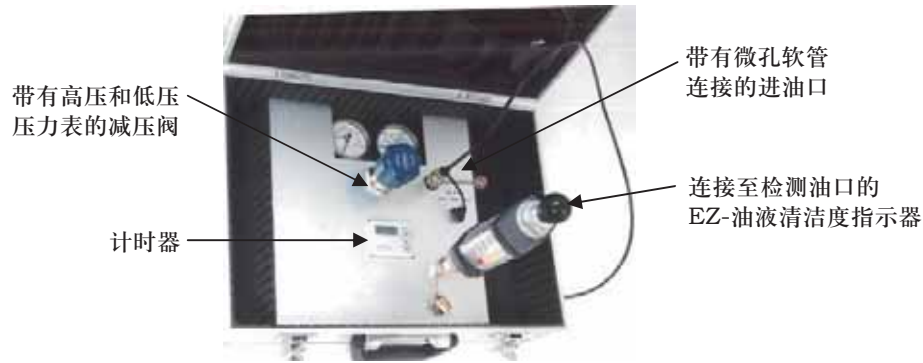


!注意 该产品应当由经过高压仪器和加工设备操作与维护培训的技术合格的人员来操作和维护，详尽阅读说明书，如果您有任何问题，联系您的供应商获取更多的资料。

检测时不要靠近磁性或电磁装置,这类装置会对使用和准确性造成影响。

1. 把螺纹检测阀安装在你系统的阀块、缸或者在回油过滤器之前的回油箱的回油管上，检查这些地方是否是压力为3.5-4.5 bar的低压管路。
2. 把微孔软管连接至螺纹检测阀上，并且冲洗大约20-30 cc油液进入冲洗瓶,清洗检测阀。把软管从检测阀上拆下。
3. 把压力表连接至螺纹检测阀上，并且检查油液压力是否在3.5-4.5 bar之间。**4 bar检测压力准确性最佳。检查压力是否恒定和没有脉动。**在困难的检测点位置，您可以使用带接头的微孔软管进行远程压力检查。从检测阀上拆下压力表。
4. 把EZ-油液清洁度指示器连接至检测阀上，让一些油进入指示器,并且彻底冲洗油液进入冲洗瓶。再次连接指示器和用你的手表计数5分钟，你能够看到在刻度上朝上移动红色指针和从指示器中出来的红色活塞。5分钟后你能够在指示器刻度上读出你的油液的ISO或NAS清洁度等级，从检测阀上拆下EZ-油液清洁度指示器。你也能够把指示器连接至带有微孔软管和接头的阀上，用于远程检测,进行检测几次，取平均值。
5. 清洗EZ-油液清洁度指示器。把它放在冲洗瓶中，并且稍微向下推活塞杆和把油液从指示器里彻底冲洗进入冲洗瓶。在清洁过程开始时，你必须冲洗至少30滴，然后你可以打开指示器的螺纹调整圈，一圈或二圈并且继续压活塞杆，冲洗将比以前要快，当你达到底线时，关闭调整圈，现在指示器已经准备好用于新的检测了。

EZ-油液清洁度检验仪-240 bar高压装置 使用说明



!注意 该产品应当由经过高压仪器和加工设备操作与维护培训的技术合格的人员来操作和维护，详尽阅读说明书，如果您有任何问题，联系您的供应商获取更多的资料。

检测时不要靠近磁性或电磁装置，这类装置会对使用和准确性造成影响。

使用EZ-油液清洁度检验仪-240bar高压装置，你能够检测60-3500psi (4-240bar)工作压力范围的液压系统的油液清洁度。该装置包括用于60psi (4bar)压力的低压EZ-油液清洁度检验仪指示器和把高压降为低压的减压阀。

1. **把随装置提供的螺纹检测阀**安装在你系统的阀块、缸、过滤器、管接头上，或者你可以使用现有的M16×2阀。检测之前，把现有阀外面的脏物清洗干净。
2. **冲洗检测阀**。把随装置提供的微孔软管连接至被检测系统上的检测阀上，并且用大约20-30 cc的油液冲洗进入随装置提供的冲洗瓶，从检测阀上拆下软管。
3. **冲洗装置**。逆时针转动打开减压阀，直至你感觉转动轻松，并且2个压力表都显示“0”压力。连接微孔软管的一端至检测装置面板上的**进油口**，同一软管的另一端连接至被检测系统上的检测阀上，现在你能够在减压阀的右侧压力表上看见你的被检测系统的压力。**允许的最高压力是240bar(3500psi)，并且它必须是恒定压力，不能是脉动压力**。把第二根微孔软管的一端放入冲洗瓶，并且把另一端连接至装置面板上的检测口，打开球阀，通过顺时针旋转把减压阀的出口压力在左侧压力表上设定为60psi (4bar),油液将冲洗所有的装置部件，系统油液进入瓶里。冲洗大约**5分钟**，关闭球阀，**只从检测口拆下软管**。
4. **油液清洁度检测**。把计时器设定为**5分钟**，用手把EZ-油液清洁度检验仪指示器连接至检测口，并且让一些油进入指示器，彻底冲洗这些油，把指示器再次连接至检测口，并且计时器开始，检查左侧压力表显示的检测压力为60psi (4 bar)，**5分钟**检测后关闭球阀，你能够在EZ-油液清洁度指示器看到油液的ISO和NAS清洁度等级。**首先从被检测系统的阀上拆下软管**，然后从装置上拆下，从装置上拆下EZ-油液清洁度指示器。检查装置处是否没有压力，并且打开减压阀，软管有压力，用软管把油液从检测口冲洗出来。把EZ-油液清洁度指示器放在随装置提供的瓶里进行清洗，并且稍微向下压活塞杆，你必须冲洗至少30滴，然后你可以拧松指示器的螺纹调整圈，一圈或二圈并且继续压活塞杆，冲洗将比以前要快，当你达到底线时，**拧紧调整圈**，现在指示器已经准备好用于新的检测了。

EZ-LAB瓶装油样检测,使用EZ-油液清洁度检验仪



图1



图2



图3



图4

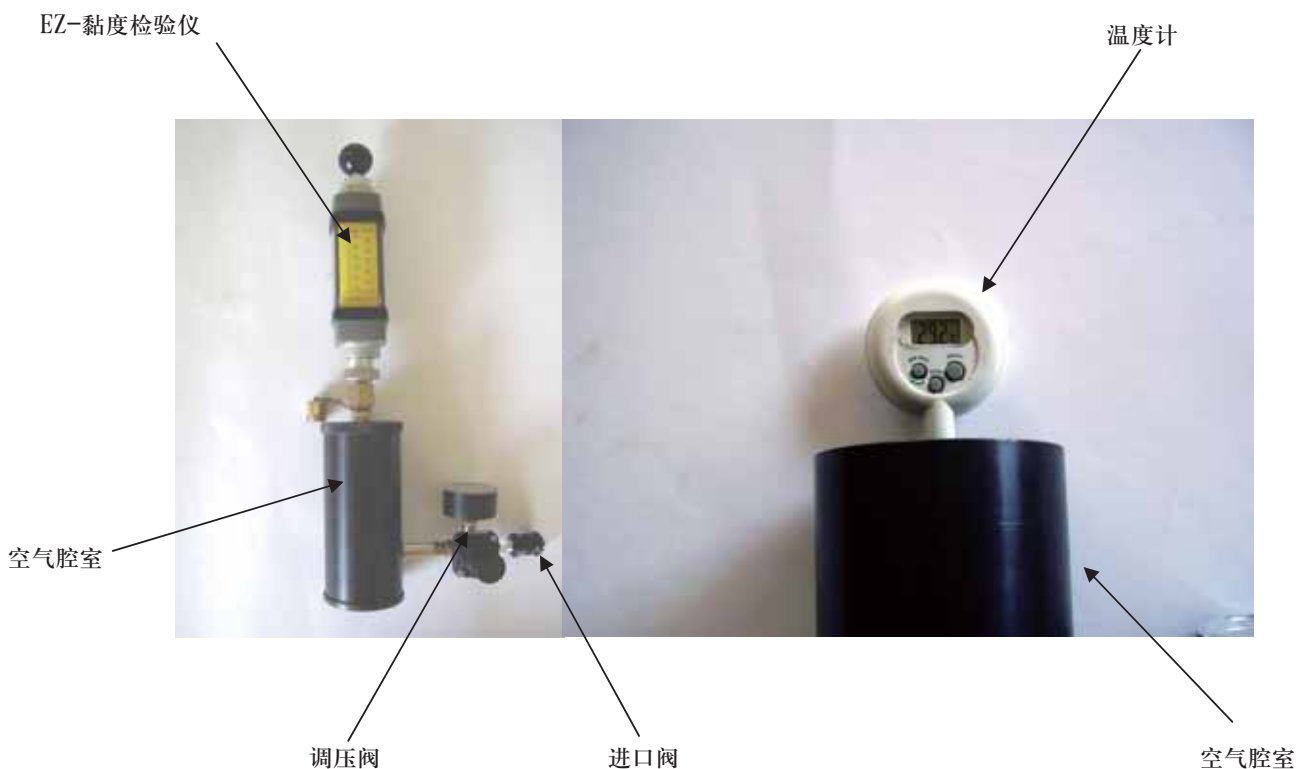
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使用说明

1. 连接释放阀至调压阀, 向左打开调压阀旋钮, 并且释放阀至右位, 关闭指示器冲洗球阀, 检查空气腔室盖是否关严, 连接最高7 bar压力的干燥气源至释放阀, 关闭释放阀至左位, 并且把调压阀调至4 bar压力, 推旋钮至安全位置。通过向右打开释放阀来释放压力。
2. 把油液瓶冲洗软管的自由端放入1个1升的塑料瓶(不提供)。
3. 检查压力表, 看腔室中是否没有空气压力。打开空气腔室盖并且把它放在阀侧的台子上(不要放在塑料管上, 会损坏)。
4. 油样瓶摇动2分钟, 并且不带盖把它放入压力腔室(图1)。
5. 关闭空气腔室盖, 使盖上的塑料管插入瓶内。
6. 通过关闭释放阀至左位, 给空气腔室施加4 bar/60 psi的空气压力。
7. 把油液瓶冲洗软管推入盖上的空气腔室阀, 并且用一些油液来冲洗。(图2)
8. 把EZ-油液清洁度指示器连接在空气腔室阀的顶部, 并且操作计时器进行5分钟的检测。5分钟后你能够在指示器刻度上看到你的油液的ISO/NAS清洁度等级。(图3)
9. 完成你的检测之后, 通过向右打开释放阀来释放压力, 并且看压力是否降至“0”, 拆下指示器和取出瓶子。把空气腔室盖关闭, 并且用瓶冲洗管把盖子塑料管中剩余的油液冲洗出来。
10. 把指示器放入冲洗瓶, 通过把蓝色的空气冲洗软管推入管接头使它与指示器连接, 打开指示器冲洗球阀, 并且把油液从你的EZ-油液清洁度指示器中冲洗出来。(图4)
11. 向右打开释放阀, 并且查看压力是否释放了, 关闭球阀, 并且通过按压接头上的蓝色圈和拉出软管来拆下指示器冲洗软管。

瓶装油样黏度检测，使用EZ-黏度检验仪

1. 检查进口阀和空气腔室的调压阀是否全开。
2. 连接外部最高10 bar压力的气源至进口阀，并且检查压力调节用的压力表是否显示为“0”，打开空气腔室的盖。
3. 拿1个100 ml的油样瓶，用手摇动它2分钟，并且把它放入空气腔室，用1个数字式温度计检查油温，几秒钟后取出，记住温度值。把空气腔室盖盖回到空气腔室上，使盖上的塑料管在油样瓶内。
4. 冲洗系统。通过关闭进口阀和调节调压阀，使空气腔室加压至50 psi，连接EZ-黏度检验仪至空气腔室盖上的螺纹阀上，并且让一些油进入指示器，拆下指示器，并且把油液从指示器冲洗出来进入冲洗瓶，通过只打开进口阀来释放空气腔室中的空气。
5. 检测。连接EZ-黏度检验仪指示器至空气腔室，重新把计时器设“0”，打开进口阀和同时起动机，看刻度，当红色的刻度指示达到刻度上的“60”线读数时停止计时器，计时器的时间是秒，对应检测温度的运动黏度单位是cSt，对照油液制造商提供的黏度/温度图(相同油液，对应检测温度)检查这个值。
6. 比较检测。在室温下对同牌号已使用油液的黏度和新油的黏度进行比较，当检测黏度时，重要的是设定正确的基线，因为新油的黏度变化之大可以到20%，仍处于它的ISO黏度范围内，所以必须测量和纪录实际的开始黏度。必须用相同的方法、相同的仪器、相同的过程和在相同温度下监测新油和已使用的油，现在你能够看到这2种油的黏度的差别，并且检查是否在允许范围内。
7. 检测完成之后，通过压下活塞，把油液从EZ-黏度检验仪中冲洗出来进入冲洗瓶，要加快冲洗速度，把下方的圈拧开一圈，冲洗完成后拧紧。现在指示器已经准备好用于新的检测了。



Now you can check your oil onsite, quickly and easily with

EZ-OilClean Check

2 YEAR
WARRANTY

MADE IN
ISRAEL

PATENT
PENDING

Portable Oil Cleanliness Indicator



Particulate contamination of oil is the major source of wear and failure in hydraulic systems, bearings, gears and engines. It is very important to know the cleanliness level of your oil and make every effort to keep it clean.

EZ-OilClean Check was specifically developed as a portable indicator for the maintenance staff to detect any fluid cleanliness changes, as a part of Proactive Maintenance.

Benefits

EZ-OilClean Check is small and lightweight and can be easily connected to any system using Test Point fittings. It is a mechanical instrument without any electrical supply. It can be used in the field, to provide immediate information about the oil condition. It takes only a few minutes to do a test and get ISO and NAS cleanliness levels of the oil. There are two models, for low and high pressure systems, that can provide online or bottle sample analysis. Regular oil cleanliness monitoring and corrective actions will extend machine life and reduce operation costs.



<u>Features</u>	<u>Applications</u>
<ul style="list-style-type: none"> • Pore blockage technology • Small and lightweight • Online or bottle sample tests • Not effected by water/ air in the fluid • Can test dark fluids • Test Point online connection • Totally mechanical • Low and High Pressure Models 	<ul style="list-style-type: none"> • Lubricants, Hydraulic oil • Hydraulic systems, Gears, Engines • Filter tests • Steel, Paper Mills • Plastic Industry • Ships, Offshore Industry • Mining, Off-Highway • Military, Aerospace

With EZ-OilClean Check you can test oil cleanliness levels any time, anywhere. On site tests will help you find out quickly the real condition of the oil and accomplish a better contamination control.

Specifications

- Pressure range 40-3500psi (3-240bar), 6000psi (400bar)
- Fluid Temperature 80°C
- Fluid Compatibility Hydraulic oil, Skydrol option, Water Glycols, Others.
- Viscosity Up to 150 cSt at tested temperature
- Range ISO 22/20/17 – 16/14/10 , NAS 11- NAS 5
- Seals Nitrile, Viton, Others.
- Weight Low pressure unit- 600grams, High pressure system-6kg
- Dimensions Instrument 285x60x60 mm
High Pressure Box 460x340x150mm
- Fittings Test Point M16x2 , Others
- Scale ISO, NAS , Color scale, Others

Ordering Information

<u>DESCRIPTION</u>	<u>Part Number</u>
EZ-OilClean Check Indicator-4bar testing pressure	I H S-OC
EZ-OilClean Check Kit -4bar testing pressure	I H S- OC-KIT
High pressure OilClean Check-240bar	I H S-HPOC-240bar
EZ-LAB for bottle sample check	I H S-OC-LAB



On-Line low pressure Check



On-line high pressure check



Bottle sample check

Now you can check your oil onsite, quickly and easily with

EZ-OilClean Check

2 YEAR
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Portable Oil Cleanliness Indicator



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EZ-OilClean Check is small and lightweight and can be easily connected to any system using Minimes fittings. It is a mechanical instrument without any electrical supply. It can be used in the field, to provide immediate information about the oil condition. It takes only a few minutes to do a test and get ISO and NAS cleanliness levels of the oil.

EZ-OilClean Check KIT includes all you need for oil cleanliness check at 4bar line pressure:

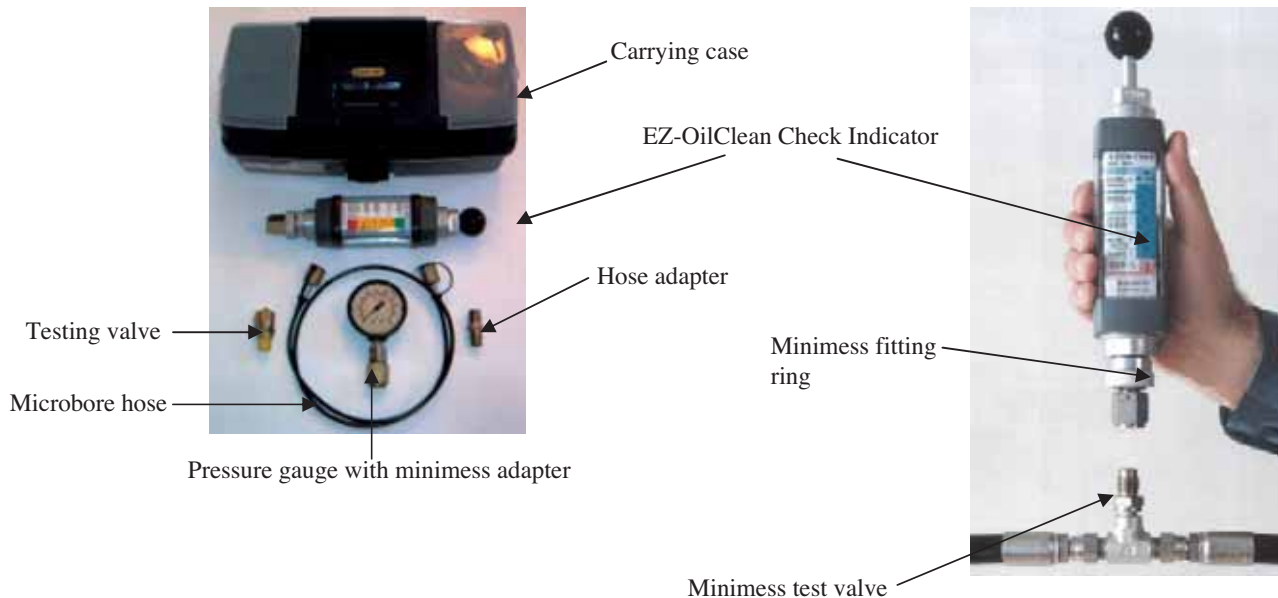
- EZ-OilClean Indicator 4bar
- Microbore hose, 1 meter long
- Minimes test valve
- Remote measurement adapter
- Pressure gauge with minimes adapter
- Carrying case



With EZ-OilClean Check you can test oil cleanliness levels any time, anywhere. On site tests will help you find out quickly the real condition of the oil and accomplish a better contamination control.

EZ-OilClean Check Kit – 4bar test pressure

Operating Instructions



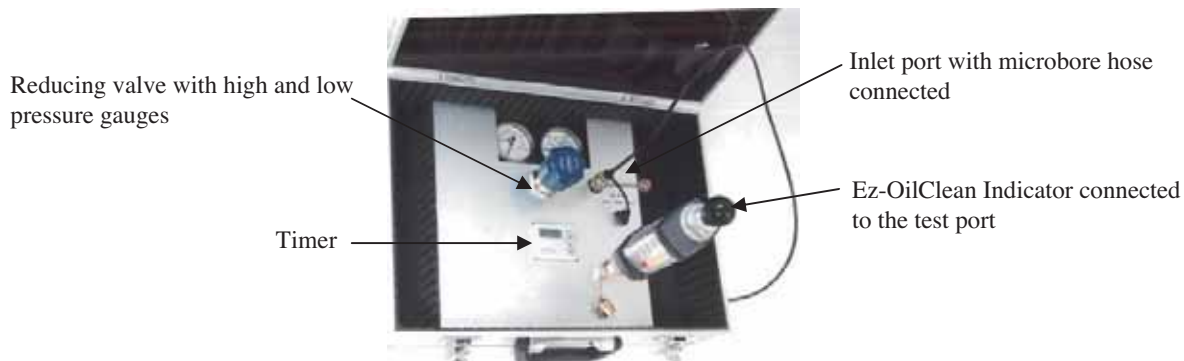
!CAUTION This product should be operated and serviced by technically qualified personnel trained in operating high pressure instrumentation and processing equipment. Read instructions thoroughly and if you have any questions call your supplier for more information.

Do not test near magnetic or electromagnetic devices which can affect the operation and accuracy.

1. Install minimess test valve on your system on valves blocks, cylinders, return lines to reservoir before the return filter. Check that these are low pressure lines 3.5-4.5 bar
2. Connect the microbore hose to the minimess test valve and flush about 20-30cc of oil into the flushing bottle, cleaning the test valve. Disconnect the hose from the test valve.
3. Connect the pressure gauge to the minimess test valve and check that the oil pressure is between 3.5-4.5bar. **The best accuracy is at testing pressure of 4bar. Check that the pressure is constant and not fluctuating.** On difficult test point locations, you can use the microbore hose with adapter for remote pressure check. Disconnect the pressure gauge from the test valve.
4. Connect the EZ-OilClean Indicator to the test valve and let some oil enter the indicator and flush out the oil on the flushing bottle. Connect the indicator again and count 5 minutes on your watch. You can see the red pointe rmoving upwards on the scale and the rod piston moving out from the indicator. After 5 minutes you can read on the indicator scale the ISO or NAS cleanliness level of your oil. Disconnect the EZ-OilClean Indicator from the test valve. You can also connect the indicator to the valve with the microbore hose and adapter for remote test. Do a few tests and take the everage result.
5. Clean the EZ- OilClean Indicator. Put it on the flushing bottle and **push down lightly** the piston rod and flush out the oil from the indicator into the **flushing bottle**. At the beginning of the cleaning procedure, you must flush at least 30 drops and after that you can open the minimess fitting ring of the indicator, one or two rounds and continue to press the rod. The flush will be faster than before. When you reach the bottom line, **close back the fitting ring**. Now the indicator is ready for a new test.

EZ-OilClean Check-240bar High Pressure Unit

Operating Instructions



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With EZ-OilClean Check-240bar High Pressure Unit you can check oil cleanliness level on hydraulic systems with working pressure range of 60-3500psi (4-240bars). The unit includes the low pressure EZ-OilClean Check Indicator for pressure 60psi (4bar) and a pressure reducing valve which reduces the high pressure to low pressure.

1. **Install the minimess test valve** which is delivered with your unit on your hydraulic system, on valve blocks, cylinders, filters, pipe fittings, or you can use existing minimess valves M16x2. Clean the existing valves well of outside dirt before test.
2. **Test valve flushing.** Connect a microbore hose, which is supplied with the unit, to the test valve on the tested system and flush about 20-30 cc of oil into the flushing bottle which is supplied with the unit. Disconnect the hose from the test valve.
3. **Unit flush.** Open the pressure reducing valve turning the valve counter clockwise until you feel it rotates freely and both pressure gauges show "0" pressure. Connect one end of a microbore hose to the **Inletport** on the panel of the testing unit and the other end of the same hose to the test valve on the tested system. Now you can see on the right pressure gauge of the reducing valve the pressure of your tested system. **Maximum allowed pressure is 240bars(3500psi) and it must be a constant pressure, not fluctuating pressure.** Take the second microbore hose, put one end of it in the flushing bottle and connect the other end to the **Testport** on the panel of the unit. Open the ball valve. Set the outlet pressure of the reducing valve on the left gauge to 60psi/4 bars by rotating the valve clockwise. The oil will flush all the unit parts with the system oil into the bottle. Flush about **5 minutes**, close the ball valve and disconnect **only** the hose from the **Testport**.
4. **Oil cleanliness test.** Set the timer to 5 minutes. Connect the EZ-OilClean Check Indicator by hand on the **Test port** and let some oil enter in the indicator. Flush out this oil, connect again the indicator to the test point and start the timer. Check that the test pressure on the left pressure gauge shows 60psi(4 bars) After **5 minutes** test close the ball valve and you can see on the EZ-OilClean Indicator the ISO and NAS oil cleanliness level. Disconnect the hose **first from the tested system valve** and after that from the unit. Disconnect the EZ-OilClean Indicator from the unit. Check that there is no pressure in the unit and open the reducing valve. If there is pressure, flush the oil out from the test port with a hose. Clean the EZ-OilClean Indicator by putting it on the bottle supplied with the unit and press the piston rod down **lightly**. You must flush at least 30 drops, and after that you can open the minimess fitting ring of the indicator one or two rounds and continue to press the rod. The flush will be faster than before. When you reach the bottom line **close back the indicator fitting**. Now the indicator is ready for a new test.

EZ-LAB bottle oil sampling test with EZ-OilClean Check

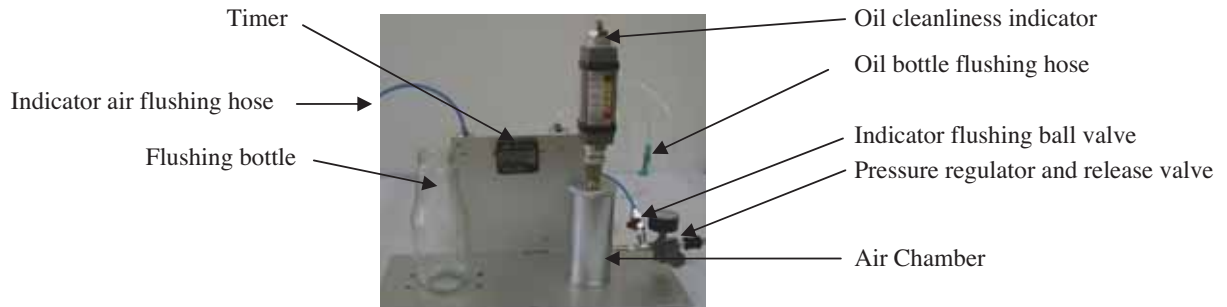


Fig. 1



Fig. 2



Fig. 3



Fig. 4

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Operating instructions

1. Connect the Release Valve to pressure Regulator. Open the Pressure Regulating Knob **to the left** and the Release Valve to the **right position**. **Close the Indicator flush ball Valve**. Check that the Air Chamber cover is closed tightly. Connect a dry air supply with maximum 7bars to the Release Valve. Close the Release Valve to the left and regulate the Pressure Regulator to a pressure of **4bars** and push the knob to the safety position. Release the pressure by opening the Release Valve to the right.
2. Put the free end of the oil bottle flushing hose into a 1 liter plastic bottle (not supplied).
3. Check on the pressure gauge that there is no air pressure in the chamber. Open the Air Chamber cover and put it on the table on the valve side (don't put it on the plastic tube, it will broke).
4. Shake the oil sample bottle for 2 minutes and put it, without its cap, inside the pressure chamber (Fig.1).
5. Close the Air Chamber cover so that the cover tube will be inside the bottle.
6. Pressurize the Air Chamber with 4bar/60 psi air pressure by closing the Release Valve to the left.
7. Push the oil bottle flushing hose into the Air Chamber valve on the cover and flush a few cc of oil. (Fig.2)
8. Connect the EZ-OilClean Indicator on the top of the Air Chamber valve and operate the timer for 5 minutes test. After 5 minutes you can see on the Indicator scale the IOS/NAS Cleanliness level of your oil. (Fig.3)
9. After completing your test, release air pressure by opening the Release Valve to the right and see that the pressure is going down to "0", disconnect the indicator and take out the bottle. Close back the Air Chamber cover and flush out the remaining oil in the cover tube with the bottle flushing tube.
10. Put the indicator on the Flushing Bottle, connect to the indicator the blue air Flushing Hose by pushing it inside the connector, open the Indicator flush ball valve and flush out the oil from your EZ-OilClean Indicator. (Fig.4)
11. Open the Release Valve to the right and see that the pressure is released, close the ball valve and disconnect the Indicator Flushing Hose by pressing on the connector blue ring and pulling out the hose.

Bottle oil sampling viscosity test with EZ-Visco Check

1. Check that the inlet valve and pressure regulator of Air Chamber are fully open.
2. Connect external air supply of 10bar max. to the inlet valve and check that pressure regulated pressure gauge shows "0". Open the Air Chamber cover.
3. Take the 100ml oil sample bottle, shake it for 2 minutes by hand and put it inside the Air Chamber. Take the digital thermometer and check the oil temperature for a few seconds and take it out. Remember the temperature value . Close the cover back on the Air Chamber so that the plastic tube of the cover will be inside the oil sample bottle.
4. Flushing the system. Pressurize the Air Chamber to 50psi, by closing the inlet valve and regulating the pressure regulator. Connect the EZ-Visco Check to the minimess valve on the Air Chamber cover and let some oil enter the Indicator. Disconnect the indicator and flush the oil out from the indicator on the flushing bottle. Release the air from the Air Chamber by opening the inlet valve only.
5. Testing. Connect the EZ-Visco Check Indicator on the Air Chamber. Reset to "0" the timer. Open the inlet valve and start the timer at the same time. Look at the scale and stop the timer when the scale indicator reach the "60" line reading on the scale. The time in seconds on the timer is the kinematic oil viscosity in cSt at the testing temperature. To know the viscosity at different temperature (40°C or 100°C) use viscosity/temperature diagrams of the oils.
6. Comparison Test. Comparison of viscosity of used oil and viscosity of the same new oil at room temperature. When testing viscosity, it is important to set a proper baseline. Because the viscosity of a new oil can vary as much as 20% and stay within its ISO viscosity range, the actual starting viscosity must be measured and recorded. The new oil and the used oil must be monitored in the same way, the same instrument, same temperature same procedure. Now you can see the difference between the viscosity of both oils and check the allowed limits.
7. After the test is completed, flush the oil out from the EZ-Visco Check into the flushing bottle by pressing the piston down. To flush quickly, open the lower ring one turn and close it back after you finish. Now the indicator is ready for a new test.

