

# Service News



## Regular Replacement & Maintenance for F. O. Line Equipment

Many equipment are installed on F. O. pipe line for the boiler and incinerator. F. O. leakage of some of those equipment may be caused by being inferior in quality year by year, wear and mixing alien substance. There is the danger that F. O leakage brings the serious accident. For the equipment on F. O. pipe line, the regular replacement and maintenance of the parts prevent F. O. leakage. At this time, we will explain that the F. O. pipe line equipment whose parts should be replaced periodically, and the equipment which require the periodical maintenance. Moreover, the equipment attached to the boiler and incinerator are subject to be depending on the specifications and MFG date. For standard and specifications, please check the FINAL DRAWING and the actual equipment.

### 1) F. O. Flexible Tube for Burner

#### Replacement: once every year - two years

Please replace the flexible tube connected to the F. O. pipe line periodically because it is used under severe condition such as high temperature and high pressure, and moreover it is located around the burner. We provide the caution sticker with the flexible tube for spare parts. The next replacement date can be described on the sticker at the replacement and show it. For the flexible tube, the splash of the leakage oil can be decreased by installing the scatter protection tape on the screw parts and connection. Bind them with the scatter protection tape at the replacement and after burner cleaning. Moreover, please arrange the flexible tube not to be vibrated by the ship's vibration.

⚠ CAUTION 注意	
Flexible hose for the burner shall be replaced periodically because it is used under high temperature and high pressure conditions. Replace it every one~two years.	
バーナ部のフレキシブルホースは高温、高圧で使用する為、定期的交換が必要です。通常1~2年で交換して下さい。	
交換日	Replaced ____ month ____ year
次回交換	Next Replacement ____ month ____ year

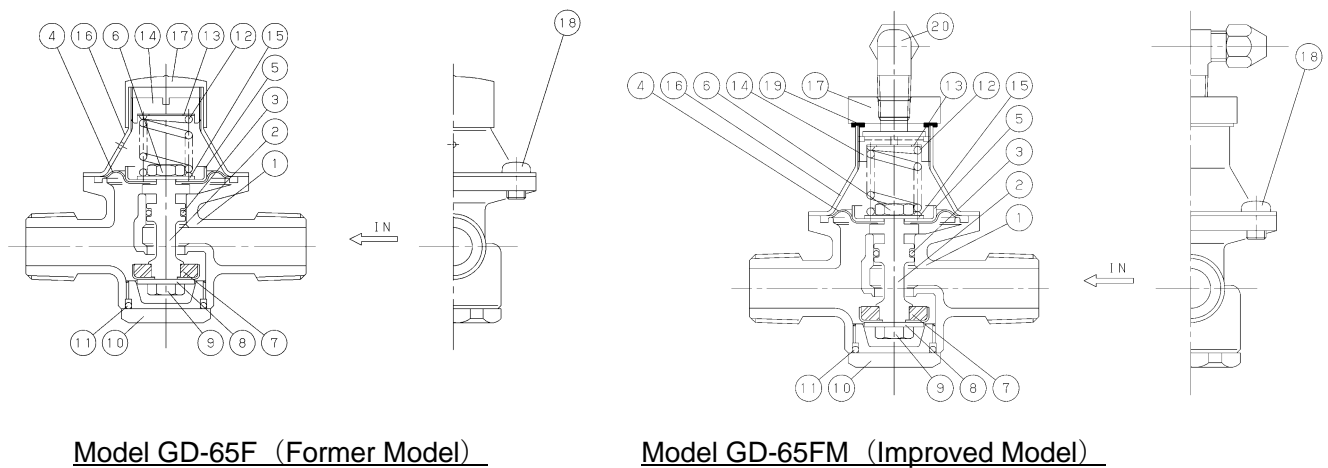
CAUTION Sticker for Flexible Tube

## 2) Waste Oil Pressure Adjusting Valve :

**Model: GD-65F, use for Waste Oil Incinerator BGW & BGW-N series**

**Replacement: once every year**

The diaphragm is damaged by being inferior in quality year by year, the leakage from the upper air vent hole begins. Change the fuel pipe inside into D.O after the waste oil combustion. If the high viscosity waste oil goes through the pipe without changing the fuel pipe inside into D.O after the waste oil combustion, it hastens the pressure adjusting valve to be inferior. The current model GD-65F has been modified into new model GD-65FM. The upper air vent hole position has been changed and the exchange kit such as the leakage oil is led into the coming if leakage. In the event of using the former GD-65F, first of all, change it to the complete GD-65FM. If it is changed once, the next replacement can be carried out by the diaphragm ASSY. The replacement manual is attached to the parts.



## 3) Fuel Oil Strainer Element, Cover Packing, O-Ring

**Replacement: once every year – two years or it is required.**

The F. O. piping for boiler and incinerator is equipped with the strainer, the strainer's model is depending on the boiler and incinerator's type and specifications, but the periodical cleaning is required. Those strainers are equipped to remove the alien substance in fuel oil which causes the inferior burner nozzle, solenoid valve, oil pump and dirt. If the strainer clogging is not settled, the element deformation and mesh damage will occurs, and the dirt goes through, and then it brings the equipment trouble and earlier inferior goods. At the usual inspection, not only element cleaning, but also careful check should be done for the element deformation, cover packing crack, inferior O-ring, and then please replace them early. The periodical drain blow and cleaning of the strainer, and the necessary parts replacement are the very important maintenance to prevent the oil leakage the early inferior of F. O. line equipment.

## 4) Mechanical Seal, Oil Seal of Fuel Oil Pump and Waste Oil Pump,

**Replacement: The replacement is to be carried out at beginning of oil leakage**

The mechanical seal and oil seal are used for the oil pump and waste oil pump. At the daily check, please check the oil leakage from the seal section and replace it if there are any leakage.

If the earlier replacement is not done, some model may conduct the pump shaft lock. The earlier worn down by mixing dirt and alien substance, and dry operation causes the earlier inferior of the mechanical seal and oil seal. As the former described, the periodical cleaning and replacement of the parts such as the strainer elements are very important. Moreover, do not stop the boiler and incinerator under the condition of high viscosity C.F.O. and waste oil. Be sure to change it over to D.O before stop the running. Even though in case of emergency stoppage and trip by safety alarm, switch the fuel pipe inside to D. O. as soon as possible and then vent the air to prevent the dry operation. If the high viscosity fuel is circulated as it is, not only the mechanical seal but also the solenoid valve, leakage protection valve and pressure adjusting valve are damaged. In the event of the quick mechanical seal inferior, please check that the suction side is not negative pressure during the operation.

## **5) O Ring in Burner Nozzle**

**Replacement: once every year - two years**

**The replacement is to be carried out at oil leakage, oil pressure decrease and combustion inferior.**

Some models of burner are equipped with O-Ring at the nozzle control. The O ring deformation and inferior in quality year by year causes leakage outside, fuel oil pressure decrease, fuel oil pressure fluctuation. Moreover, during the ignition period the oil pressure increasing takes longer than normal operation. At the daily check, please find those abnormal conditions, and replace them soon. Besides, for the burner nozzle of VWN, HB type, precision processing and measurement are required, and then please carry out the landing replacement or replace the complete parts.

According to the model and specifications, the equipment which requires the other periodical replacement and maintenance may be installed on the fuel line. Please try to prevent the oil leakage from the F. O. line equipment after reading the instructions of boiler, incinerator and equipment. We supply "CAUTION" sticker of the flexible tube and the instructions of incinerator's waste oil pressure adjusting valve if you need, so please inform us of ship's name, shipyard and ship number.

Scan the QR code or click on the following URL for information about our service network.

<https://www.miuraz.co.jp/en/marine/service/network.html>



If you have any questions, please contact nearest MIURA's office.

We hope to receive your continuous support in the future.