

# Integrated Type Automatic Changeover Regulator AX-8



ITO KOKI CO.,LTD

# Integrated Type Automatic Changeover Regulator AXS-8B

## Example of Installation – (Japan)



# The Advantages of Automatic Changeover Regulators

- You can use LPG without disruption to the gas flow.

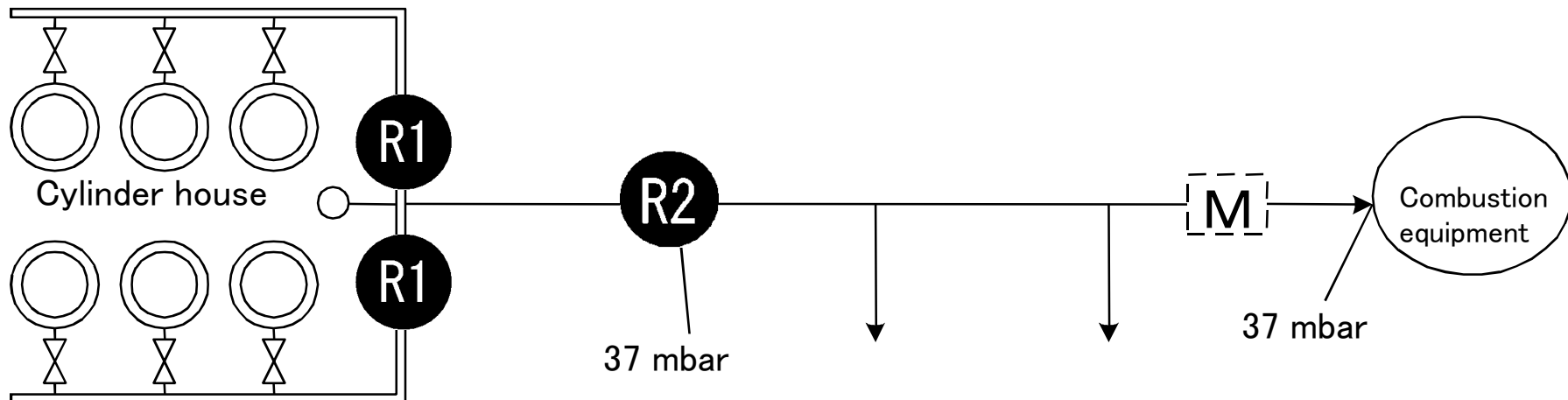
(When the service side cylinder becomes nearly empty, the ACR supplies LPG from the reserve side automatically.)

- You can arrange the cylinder delivery plan as you like.

# LPG supply system with Automatic Changeover Regulator

## Integrated type Automatic Changeover Regulator

This regulator has both the automatic changeover section of the first-stage regulator and the second-stage regulator for two stage regulation in a single unit.



AXS-8B-H



TAXS-8BBI

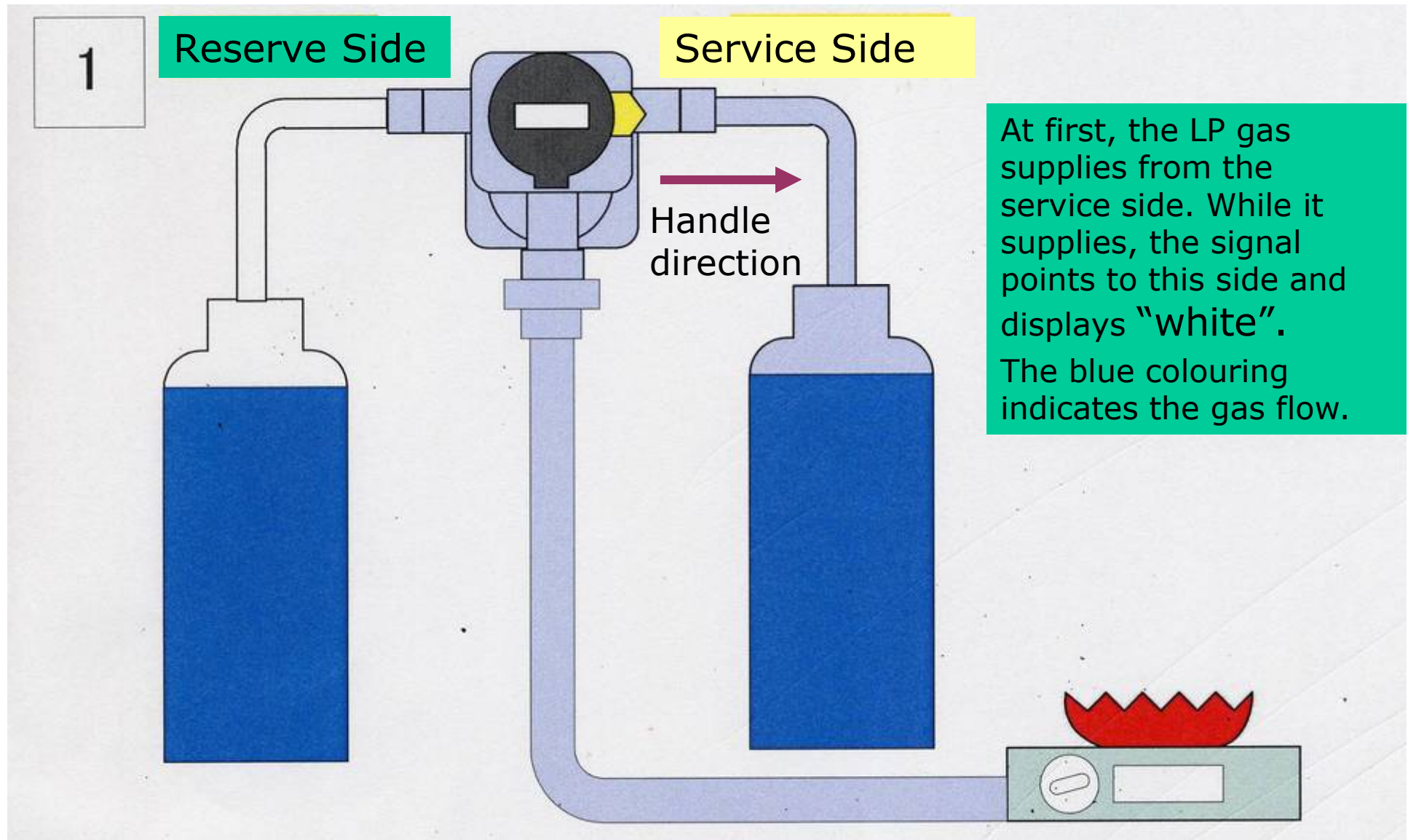


TAXS-8BBI-4



AXS-8B-4J

# Operation of an automatic changeover regulator





2

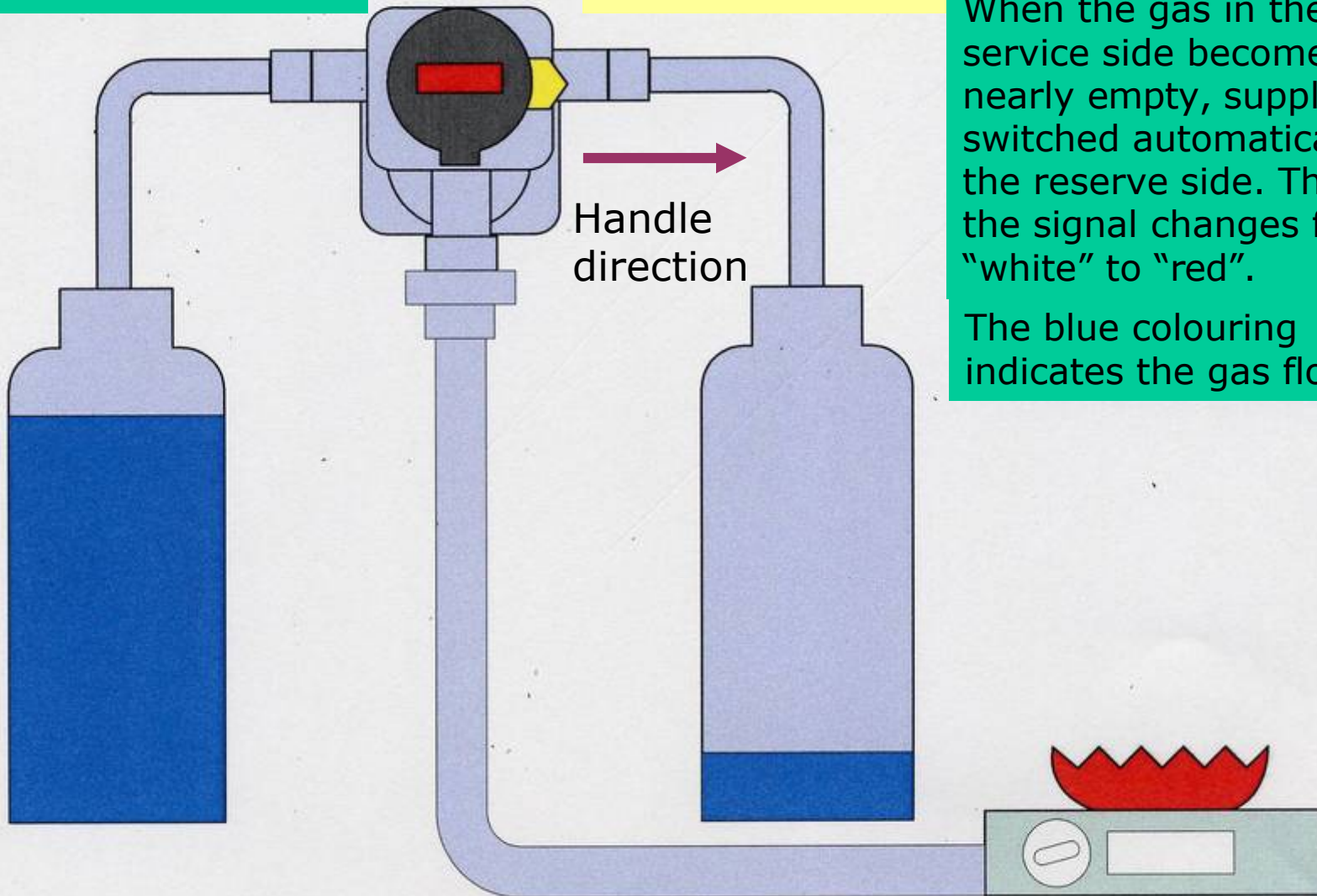
Reserve side

Service side

Handle  
direction

When the gas in the service side becomes nearly empty, supply is switched automatically to the reserve side. Then the signal changes from "white" to "red".

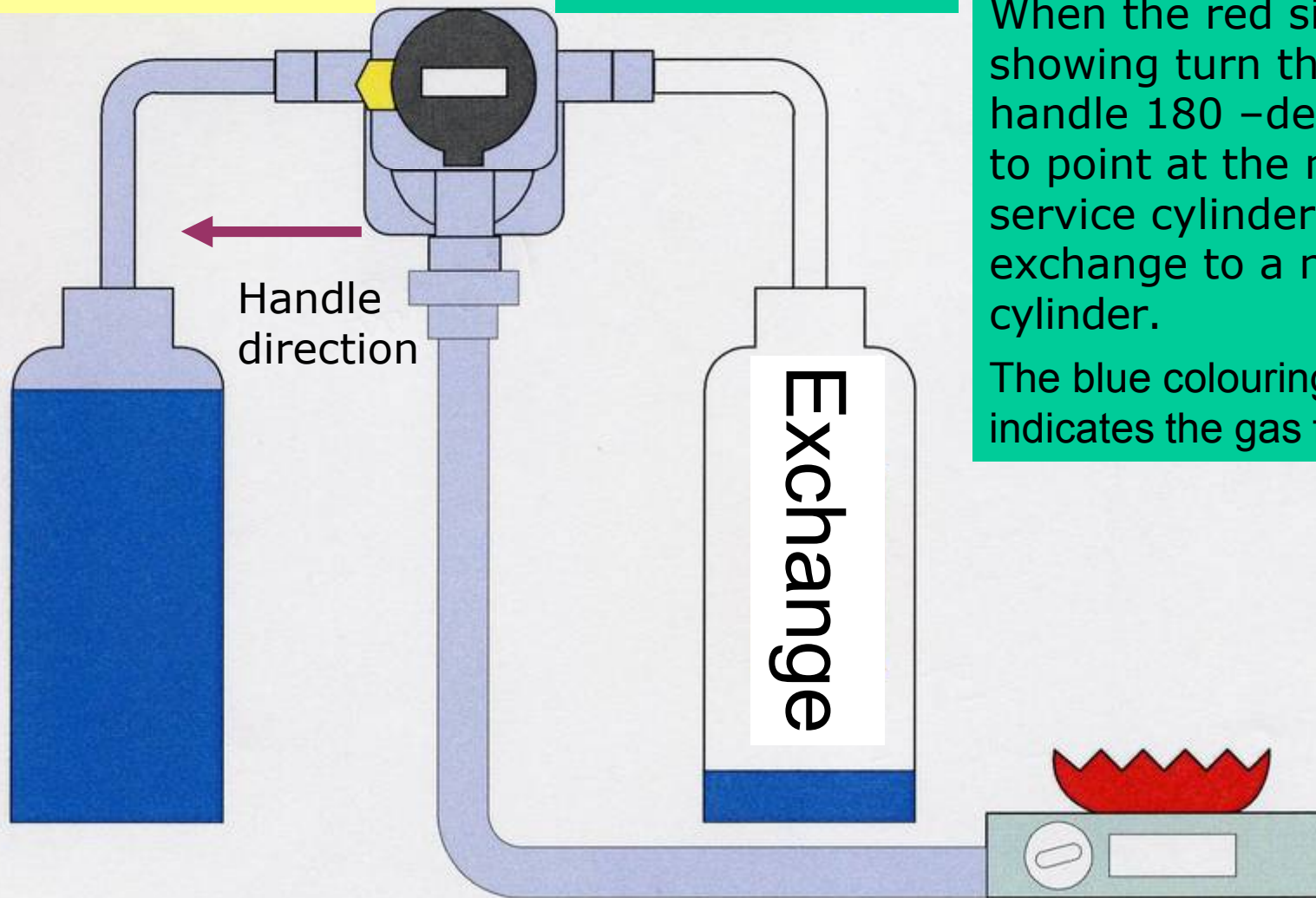
The blue colouring indicates the gas flow.



3

Service side

Reserve side



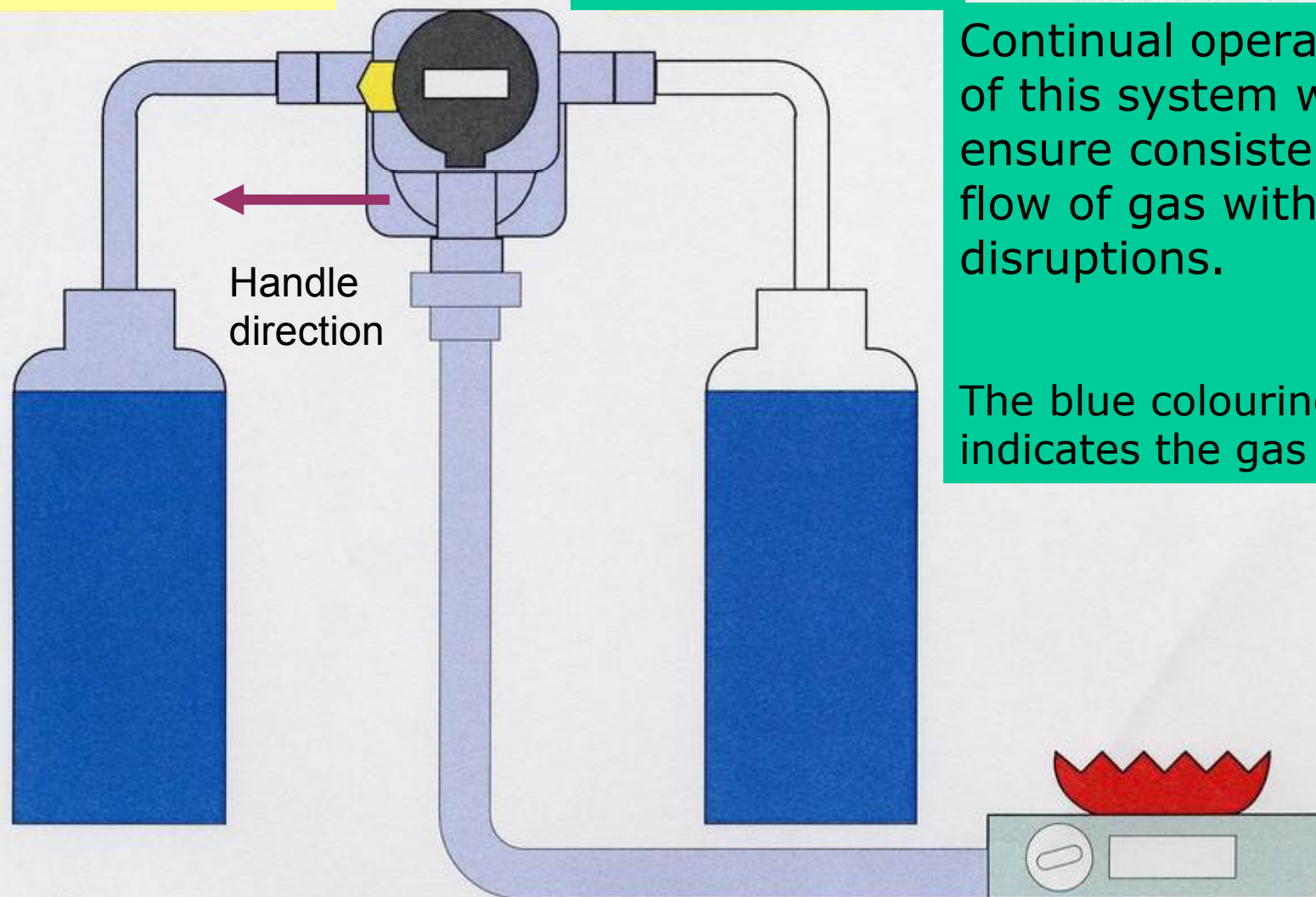
When the red signal is showing turn the handle 180 -degrees to point at the new service cylinder and exchange to a new cylinder.

The blue colouring indicates the gas flow

4

Service side

Reserve side



Continual operation of this system will ensure consistent flow of gas with no disruptions.

The blue colouring indicates the gas flow

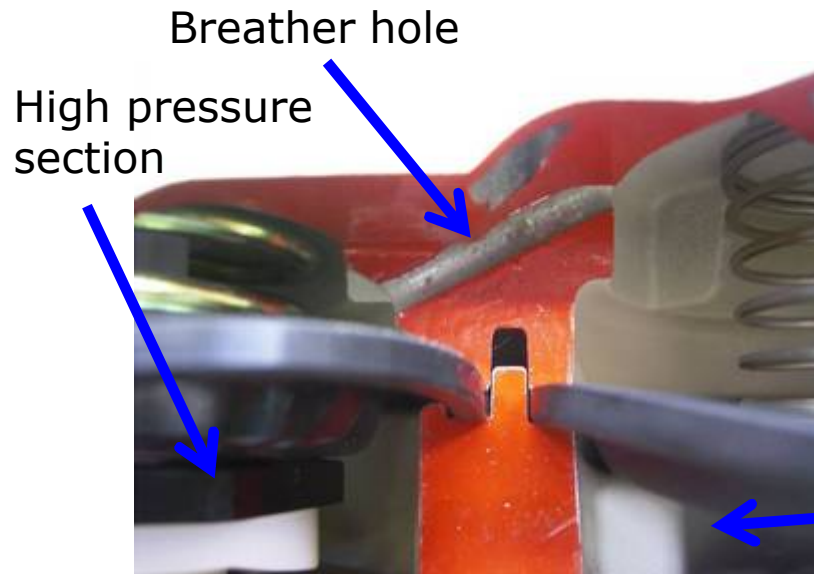
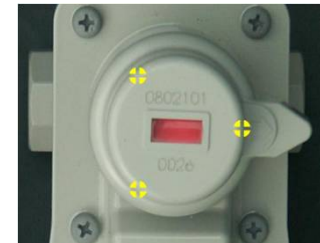


# Special features of The ITO KOKI Automatic Changeover Regulator AXS-8B ①

## Protection against insect nest and snow damage



The breather holes to the atmosphere are located in 3 points (yellow parts) separately. Even if one breather hole is blocked by an insect nest etc, other breather holes are available. It doesn't affect the performance of regulator.



The Breather hole of the low pressure section is integrated into the hole of the middle pressure section. This layout prevents the holes from blocking by insect nests etc..

Middle pressure section

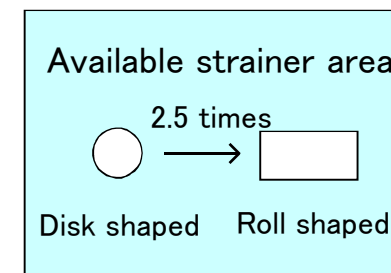
# Special features of The ITO KOKI Automatic Changeover Regulator AXS-8B ②

## Protection against foreign substances.



The cylindrical strainers are fitted at both inlets. Compared with disk shaped strainer (old-type), the available strainer area expands to 2.5 times.

We have changed the strainer from 200 mesh to a 305 mesh strainer, which enables us to catch the fine sand and rust. Even if 75% of the strainer area is covered by foreign substance, the performance of this regulator doesn't change.



We have also increased the space between the cover and signal cap so that the handle can turn easily even if dirt or sand is caught in the space.

# Special features of The ITO KOKI Automatic Changeover Regulator AXS-8B ③

## Protection against salt damage

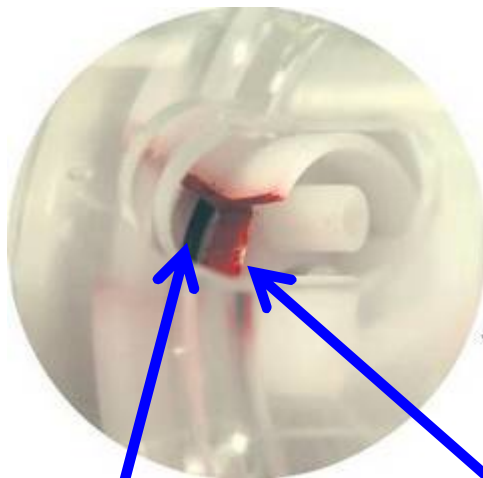


We have adopted the "overlapping cover structure" to our assembly. The cover is larger than the body. Silicon sealant is applied to the joint to improve the protection against salt ingress and damage.

The silicone is sealed on the yellow line.



## Improvement of water-proofing properties



O-ring

Breather hole

An O-ring is fitted at the rotating part so that it prevents the rainwater from coming into the product body.

# Special features of The ITO KOKI Automatic Changeover Regulator AXS-8B ④



## Threaded Outlet

The outlet has been designed with an internal and an external thread

The hose can be connected either directly to the outlet or via a ball valve.



## Eco friendly design

When the time comes to replace the regulator the components can easily be separated for recycling..

# Special features of The ITO KOKI Automatic Changeover Regulator AXS-8B ⑤

## Product serial number



All regulators are stamped with a serial number so that it is easy to manage stocks and installed regulators.

Example: 0802101 0026

→ Manufacture month: Feb 2008, first batch in Shiga factory and the twenty sixth product of that batch



Click!!

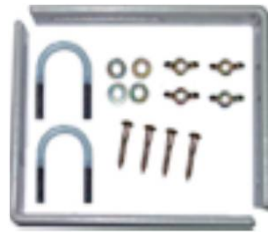
## The positive position of the handle

When you turn the changeover handle, you can hear the sound (click!) to confirm that the handle has been turned to the correct position.



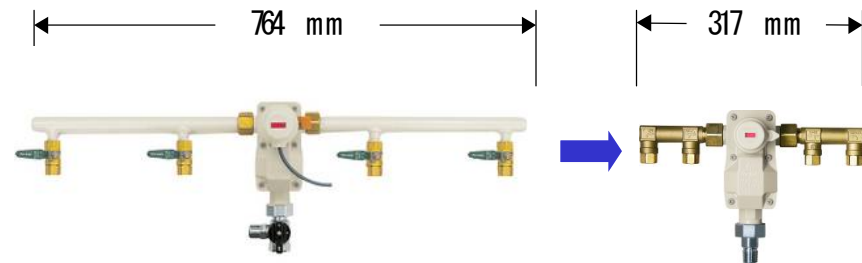
# Special features of The ITO KOKI Automatic Changeover Regulator AXS-8B ⑥

## Saving installation space "4 J type" AXS-8B-4J



**It is possible to install the regulator with a very small foot-print.**

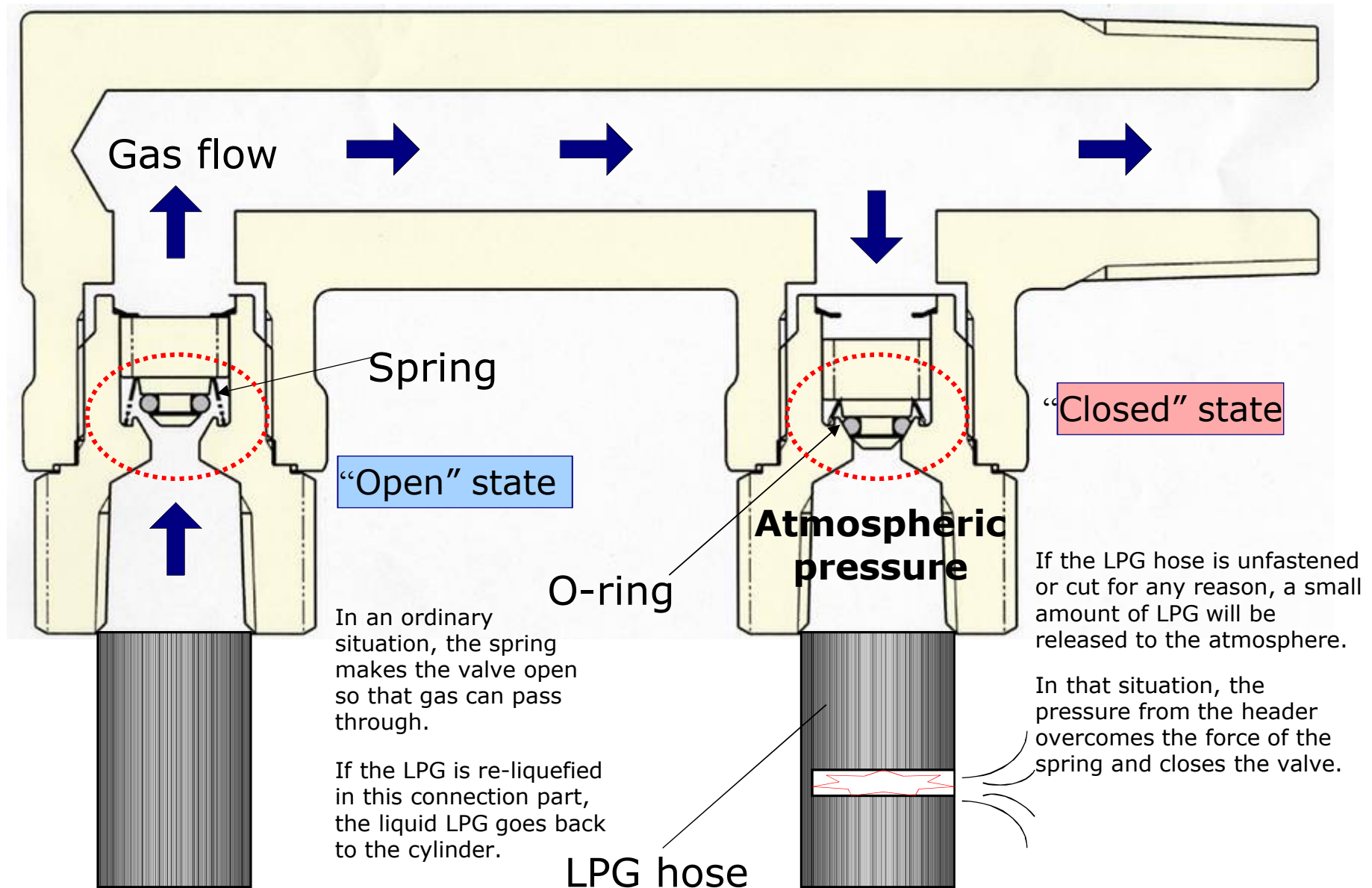
**As a option, we can include installation stand with the regulator so that you can install this regulator easily at the site.**



AXS-8B-4

AXS-8B-4J

## Operating principle of CJ-2B (Built in "check valve" structure)



## High pressure hose with tension- triggered stop valve for preventing gas leaks - Model:TIH-6-6H

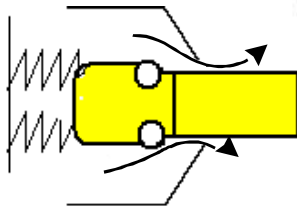
If abnormal tension is applied to the hose due to an earthquake, flood or vandalism, then the stop valve is activated to prevent gas leakage. (This valve can also be re-set once the installation is secured)

- Our LPG hoses have a white line on the body to confirm if the hose is twisted or not.
- The handwheel connector is a resin product causing no noise nor damage to the cylinder.

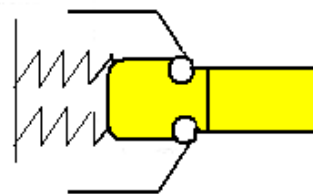


Under normal operation

Under normal operation

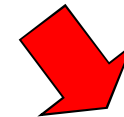


Under activation



Under activation

The red signal shows on activation



How to re-set the stop valve

Pull the end of the hose until it sounds "click" and the red signal disappears.

# AXS-8BBG-2TH

2(2 cylinders type)  
4(4cylinders type)

Outlet valve 【BG (Ball valve) 】  
Capacity

## Attachments



(IHS-6-6H)



(IHS-6-6S)



AXS-8B



LPG hose with tension  
triggered stop valve  
(TIH-6-6H)



LPG hose with trigger  
fasten by spanner

AXS-8B series are ....

- AXS-8B
- AXS-8B-4
- AXS-8B-4J
- TAXS series (Signal transmitting function)

LPG hose 4kinds  
Valve 3kinds



TAXS-8B-4



G73PZU



15A union



BV-15UK



TAXS-8B



Cylinder direct type



TAXS-8B-4J