

OPERATION MANUAL

FOR

SEPARATOR

MODEL:H5 / H5F



# SAFETY

The following warnings and cautions are shown at appropriate places in this manual.



## **WARNING**

Failure to observe this type of precaution may lead to serious injury or death.

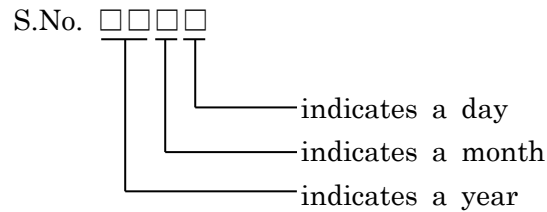


## **CAUTION**

Failure to follow this type of precaution can lead to injury or damage to equipment and property.

S No. on the name plate of our product indicates a manufacturing date.

Indicating method of S No.



Example of indicating a year

03 → 2003              13 → 2013

Method of indicating a month

Mark	Month	Mark	Month	Mark	Month	Mark	Month
1	January	4	April	7	July	X	October
2	February	5	May	8	August	Y	November
3	March	6	June	9	September	Z	December

Method of indicating a day

Mark	Day	Mark	Day	Mark	Day	Mark	Day
1	1	9	9	H	17	Q	25
2	2	A	10	J	18	R	26
3	3	B	11	K	19	S	27
4	4	C	12	L	20	T	28
5	5	D	13	M	21	U	29
6	6	E	14	N	22	V	30
7	7	F	15	O	23	W	31
8	8	G	16	P	24		

(Example)

In case that S.No. is 0316, the manufacturing date is January 6, 2003

In case that S.No. is 13XM, the manufacturing date is October 21, 2013

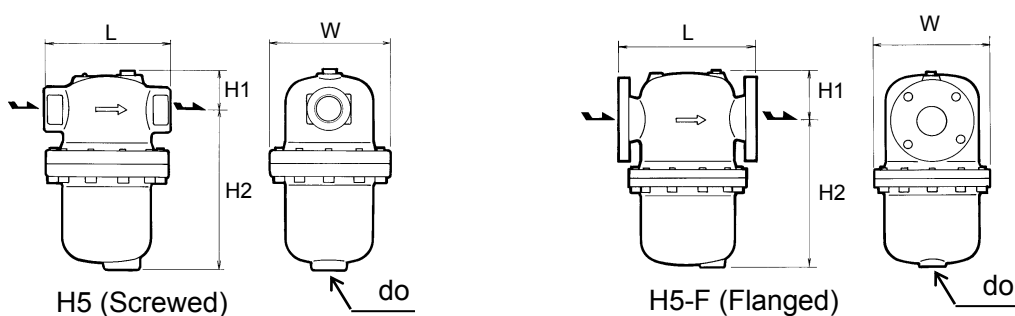
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## 1. Introduction


Drain Separator Model H5/H5F a device that separates, removes the drain generated in the steam piping, and supplies good quality dry steam. The separation power doesn't decrease even if the load changes by tornado method (centrifuge type) adoption. It is possible to use it by the compact design type as a separator for air. This manual contains Installation, Trouble Shooting, Maintenance etc.. Never fail to read them to the end before using.

## 2. Dimensions and Specifications

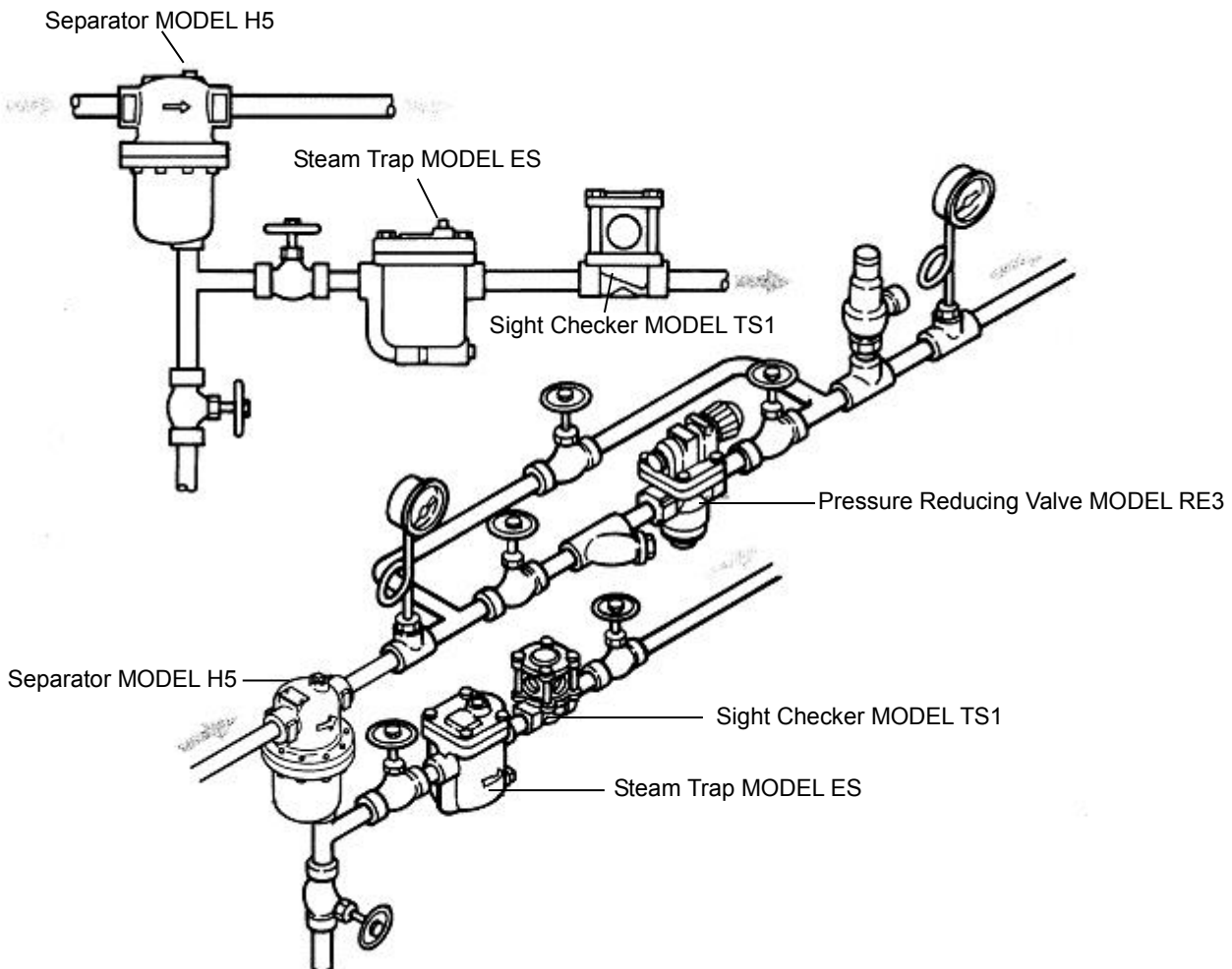


Model No.	Connection	Size mm (inch)	Maximum Operating Pressure(MPa)	Maximum Temperature ℃(°F)	Material of Body	Dimensions (mm)					Weight (kg)
						L	H1	H2	W	do	
H5	Screwed	15(1/2)	2.0 (For Air : 0.97)	220 (428)	Ductile Cast Iron (FCD450)	150	50	193	146	Rc 20	7.1
		20(3/4)									7.3
		25(1)				190	69	213	175	Rc 25	12.5
		32(1-1/4)									20.5
		40(1-1/2)									40.0
		50(2)									56.0
H5-F	Flanged	65(2-1/2)	2.0 (For Air : 0.97)	220 (428)	Ductile Cast Iron (FCD450)	219	82	260	199	Rc 32	100.0
		80(3)				292	104	314	248		100.0
		100(4)				343	123	361	283		100.0
						402	149	445	341		100.0


### 3. Installations

 <b>CAUTIONS</b>	<ul style="list-style-type: none"> <li>•Before installing the trap always blow off the slugges, scales, etc. from the piping.</li> <li>•Separator can be installed horizontally.</li> </ul>
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- 1) Be sure to install a trap device below the drain discharge port.
- 2) The top end of the trap should be lower than the drain discharge port of Separator.



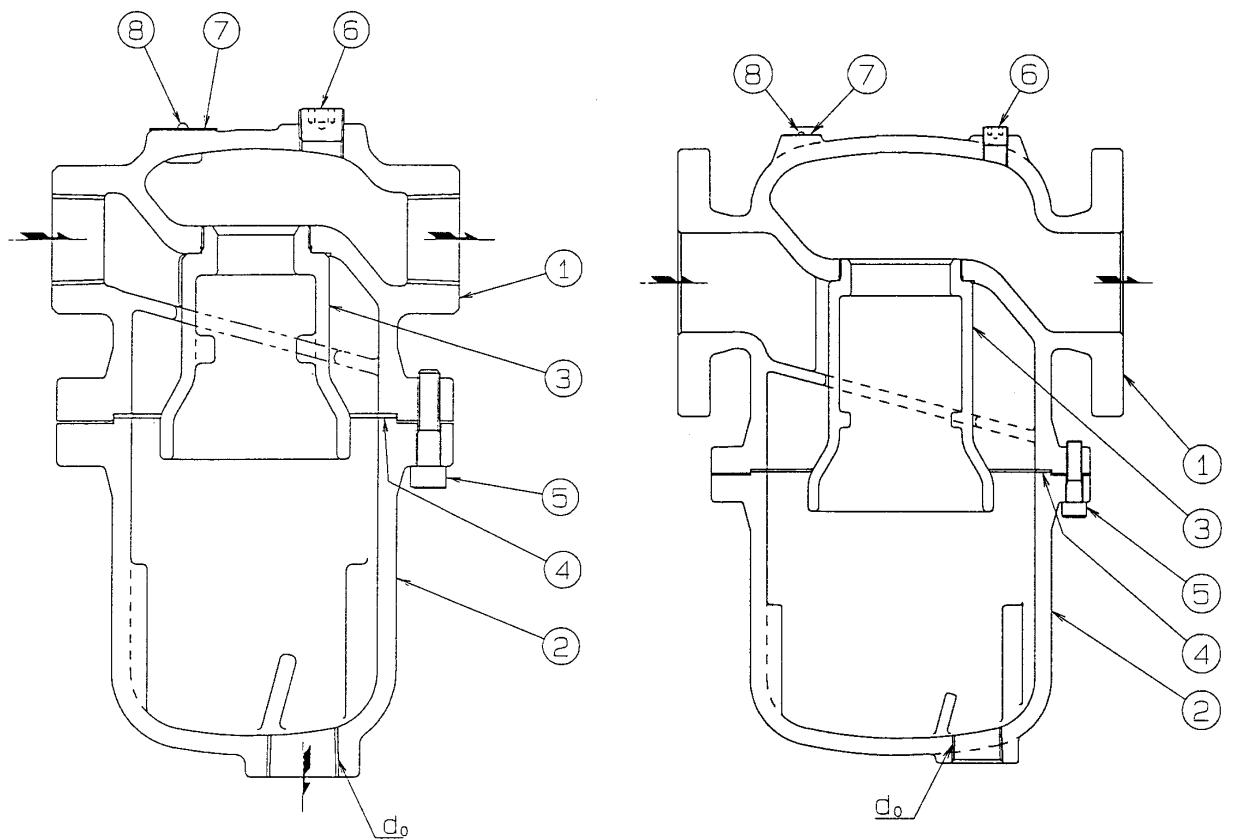
### 4. Maintenance, Disassembling and Assembling

 <b>WARNING</b>	<p>When disassembling a hot trap, be sure to release the pressure inside to atmospheric pressure, and cool the trap before the work.</p>
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- 1) Dismantle the Cover Bolt(5), take off Receiver(2).  
will come with the Cover(2).
- 2) Clean and check Body(1) internal, Receiver(2), and Nozzle(3).  
Assemble in the opposite way of disassembling.

 <b>CAUTIONS</b>	<ul style="list-style-type: none"> <li>•Also Bolt(5) should be tightened evenly.</li> <li>•When reassembling always replace the Gasket(4) to new one.</li> </ul>
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## 5. Construction



- 1.Body
- 2.Reciver
- 3.Nozzle
- 4.Gasket
- 5.Bolt
- 6.Plug
- 7. Name Plate
- 8.Rivet

## **6 Warranty**

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### **6.1 Warranty period**

The warranty period shall last 12 months from the date of product delivery.

### **6.2 Details of the warranty**

If the product stops working correctly within the warranty period, we will repair or replace the product free of charge if the cause of the trouble is not one of the following items.

- 1) The precautions described in this manual were not observed
- 2) User's errors or mistakes such as an inappropriate installation or incorrect handling, or an excessively large impact caused by dropping
- 3) Problems caused by devices or equipment other than ours, or a disallowed use environment
- 4) When a repair or modification has been performed by anyone other than us or people who are authorized to make such repairs
- 5) Intrusion of salt or other substances that promote significant rust or corrosion or problems from fluids that contain the same substances
- 6) Consumable parts such as Packing, Gasket, O-ring, Diaphragm, etc
- 7) Attachment or accumulation of foreign matter in the pipe, such as dust and scale
- 8) Problems from fires, natural disasters, or other force majeure which is not our responsibility

### **6.3 Warranty limitation**

The remedy available under the warranty shall not exceed the sales price of the products delivered, for any cause whatsoever.



## ★ Guidance for reading special product name

○○○-○○-□

**Special symbol: symbol apply only to special product  
(Please refer to table 1 for details)**

1 suffix English letter after “-”.

**Model symbol: Product model number**

Table 1 Symbol description

Suffix	Special contents
A	Approved high-pressure gas trap
C	Blow valve attached & countermeasure against scale
K	Change of gasket
L	Special face to face dimension
M	Change of parts material
P	Change of operating pressure
R	Change of screen mesh or countermeasure against scale
T	Parts are standards, and the specification (operating temp, press. etc.) is changed
V	Change of air vent
X	Other than mentioned above or complex of special contents above

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- For any questions about the product that you purchased or about the details in this user's manual, please contact the following.
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  - Some special specifications of the product you have, may found to be different from the ones in the user's manual. If you have any question, please contact MIYAWAKI, our local authorized agent, or the place where you purchased.
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**H5**