T-KON 21

T-KON 20

STEAM TRAP CONTROLLING UNIT AND INDICATOR

GENERAL FEATURES

In steam circuits, if the steam trap is closed, the steam suction will be decrease immediately in the connected device; on the other hand, if the trap is left open, it causes steam loss. Steam loss from the trap due to fault causes significant energy waste.

Steam escaping from the trap is discharged directly through the open condensate line if no other precautions are taken. The prevention of this escape must be done in time for the maintenance of the trap.

Ayvaz Trap Control System; A system which operates in the trap is a product which is designed to check whether steam leaks. It has been developed for use only in saturated steam applications. These devices ensure continuous control of the trap.

The Ayvaz Steam Trap Control Device is installed before the steam trap. Control body comprises a sensor which recognizes the conductivity difference between the steam and condensate. a control device which can be connected to this body, condensate passing "green", steam passing through the "red" serves light signal. This allows the operator to easily determine whether or not there is a leak in the trap.

Product Material:
Body and Cover: GGG 40.3 Ductile Iron

Connection:
Threaded, flanged

Nominal Diameter:
DN15 (1/2") - DN50 (2")

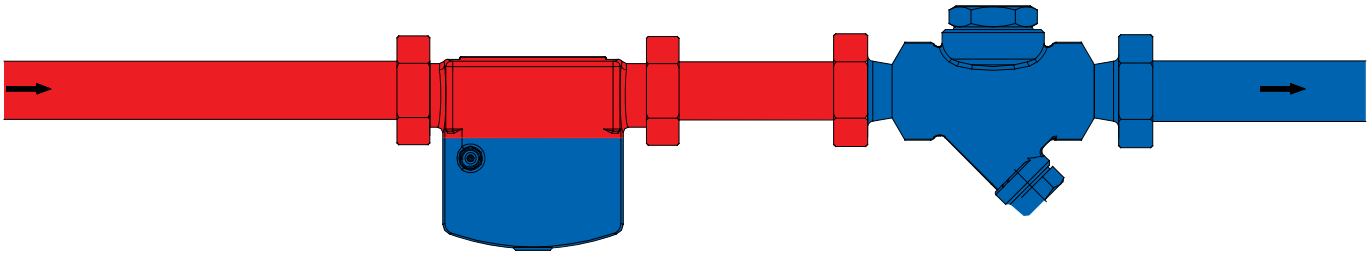
Pressure:
Max. 16 bar

Working Temperature:
Max working temperature 240 °C

Applications:
- It is used on all kinds of steam lines before the steam traps.

T-KON 20 / T-KON 21 STEAM TRAP CONTROLLING UNIT AND INDICATOR

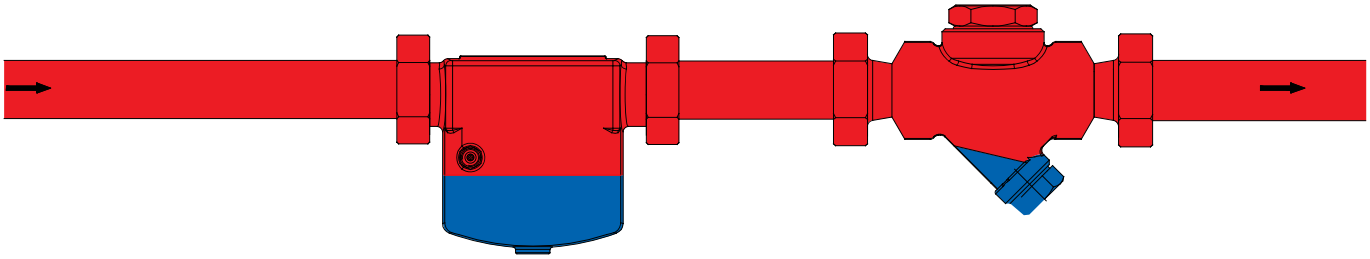
Working Principle of Steam Trap Control Body



Steam Trap working well;
The condensate first enters the control body and passes through the bottom of the body to drain the condensate. Steam goes through the top hole in the control body. The condensate is in contact with the sensor section and there is no steam in this area. In this case, green light appears in the device, that means steam trap is working well and properly.

Red: Steam Line
Blue: Condensate Line

Working Principle of Steam Trap Control Body



Steam Trap failure, steam leak ;
If the steam trap is defective and steam is leaking, suction of the steam will increase upper hole inside the control body thus, the steam will discharge the condensate inside the body by spraying. As a result of it, steam will contact with the sensor in the control body. In this case, red light appears in the device, that means steam trap is not working properly and there is a steam leak.

Red: Steam Line
Blue: Condensate Line

Installation
It is absolutely necessary to install it before the steam trap in the system. The sensor on the body must be mounted in case the socket can be easily inserted. The arrow mark on the body must be in the direction of the condensate flow

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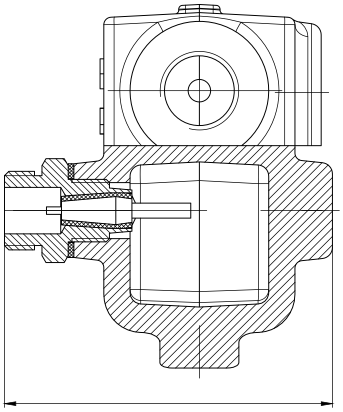
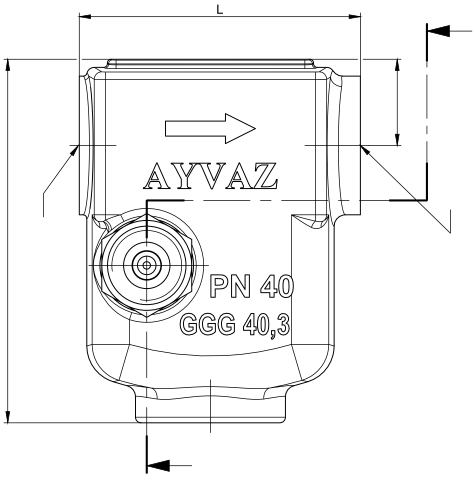
Threaded Connection

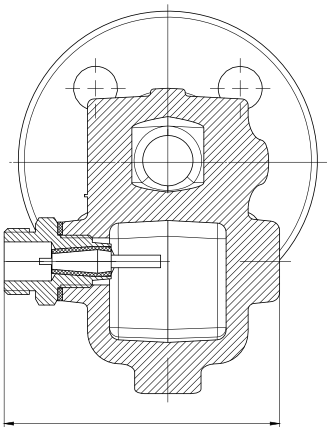


A-A CROSS SECTION

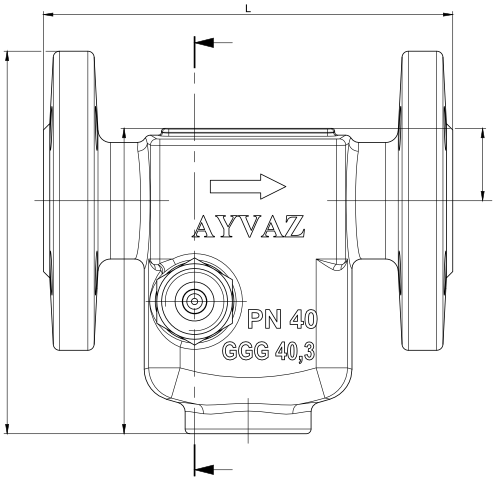


DN	A	B	C	L
1/2"	97	84.5	23	75
3/4"	97	84.5	23	75
1"	140	91.5	28	120
1 1/4"	230	141.5	45	252
1 1/2"	230	141.5	45	252
2"	230	141.5	45	252

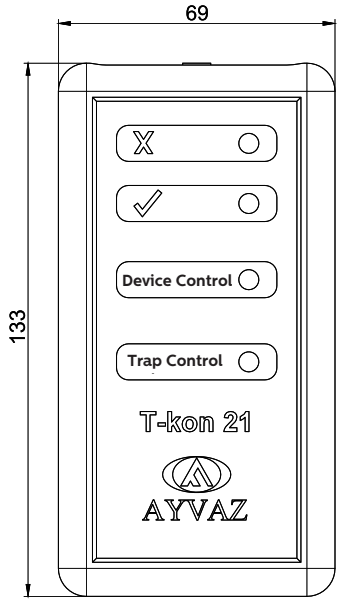
Flanged Connection

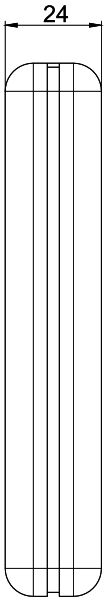


A-A CROSS SECTION



DN	A	B	C	D	L
DN15	121.5	84.5	97	23	130
DN20	126.5	84.5	97	23	150
DN25	169.5	91.5	140	28	185
DN32	255	141.5	230	45	393
DN40	260	141.5	230	45	393
DN50	267.5	141.5	230	45	393





T-KON 21 GENERAL FEATURES

T-KON21 steam trap control test device is used to detect steam leaks in steam traps. The device is manually operated, its dimensions are small and portable. It requires the following products for detection;

1- The control panel which is mounted on the sensor before the trap

2- Signal cable

When the steam trap is to be controlled, one end of the cable is connected to the test device and the other end is connected to the control body sensor in front of the steam trap to be controlled. When the control button is pressed, colored lights illuminate the status of the trap. The green light indicates that the steam trap works well, while the red light indicates that the steam is leaky.

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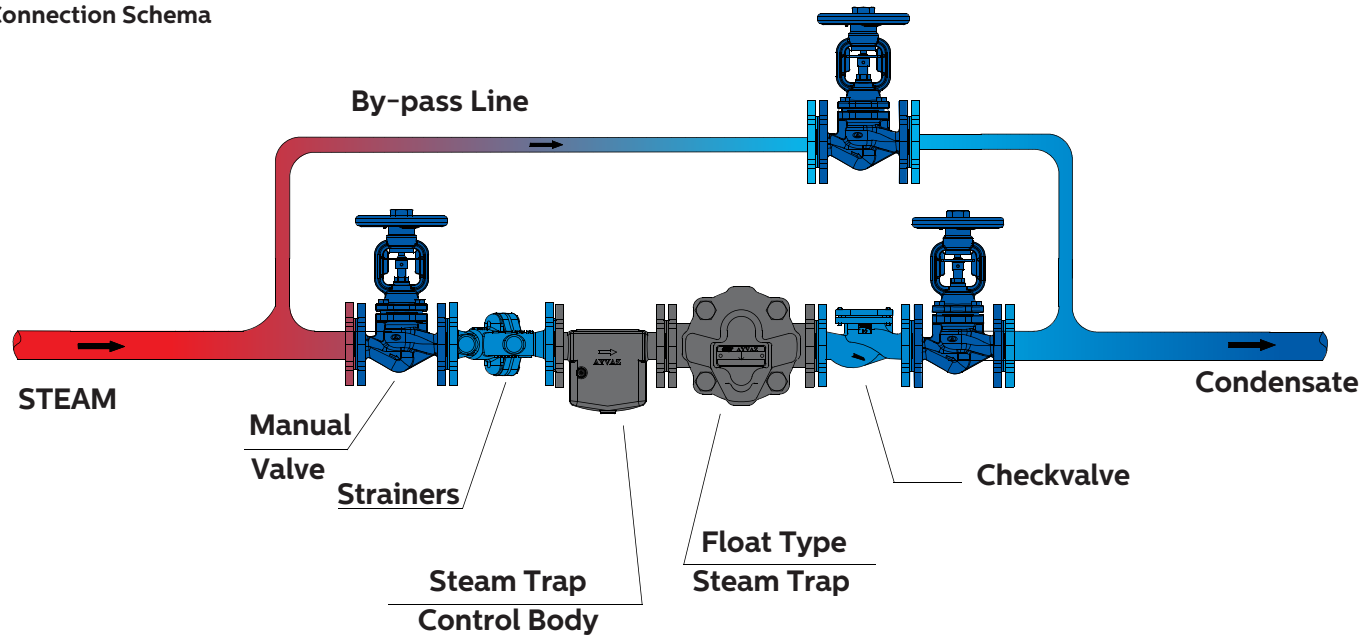
Power Supply
One 9V battery is supplied with the product, which is needed to operate the device.

Connection Schema



Note: Steam trap control body should be placed before the steam trap.

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