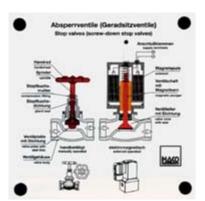
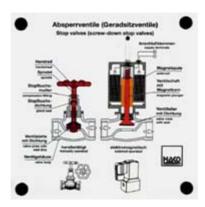
Sanitary engineering, two-wheel engineering, quality assurance, other

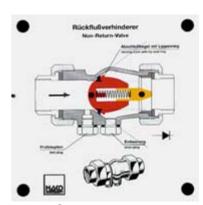


Order no. 306 Stop valves

- flow control by means of a manually actuated valve plate and a solenoid operated valve cone

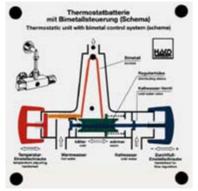


- opening and closing of both valves



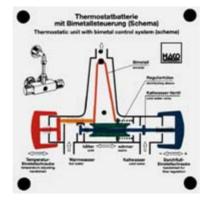
Order no. 303 Non-return valve

- function when water flows through
- shut-off effect when water flows back

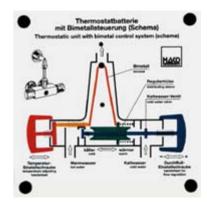


Order no. 311 Thermostatic unit with bimetal control system

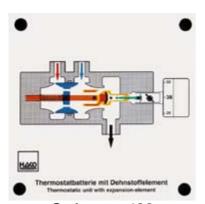
The diagram shows the operation of a thermostatic unit when the outlow of water is adjusted, and the function of the bimetallic spring.



Moving the distributing sleeve from cold to warm (and vice versa) changes the cross section of the

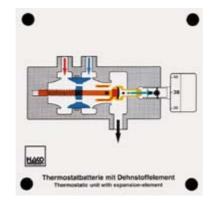


outlets and consequently the water temperature.

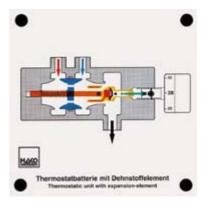


Order no. 422 Thermostat battery with expansion element

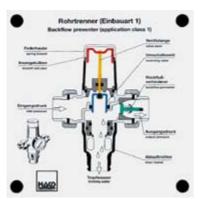
- movement of the double conical valve for the setting of the desired temperature.



- expansion of the expansion medium at increased temperatures, thus moving the double conical

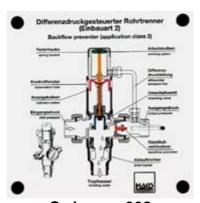


- valve to achieve regulation of the temperature



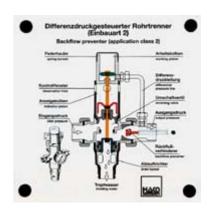
Order no. 305 **Backflow preventer**

Function of the safety valve at normal rate of flow and shutoff when inlet pressure is too low.

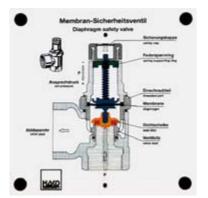


Order no. 308 **Blackflow preventer**

- function of the safety valve at the usual shutoff point



- flow-through when water is taken off, controlled by differential pressure



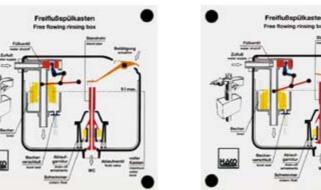
Order no. 307 Diaphragm safety valve

Demonstration of relief when overpressure is too high



Order no. 315 Flushing valve

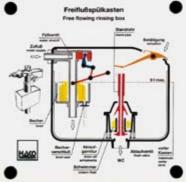
- actuating the minimum flow - function of the backflow preventer - automatic shutoff - adjustment of flow rate



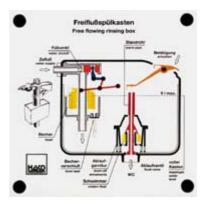
Free-flowing rinsing box

- cyrle of movement while filling or flushing - function of the two floats

Order no. 310

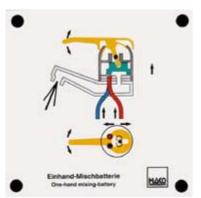


- function of water shutoff and flush valve



- function of the safety valve

Sanitary engineering, two-wheel engineering, quality assurance, other

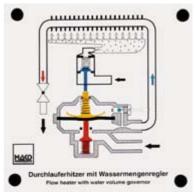


Order no. 423 Single-handed mixer tap

- setting the desired water volume by moving the lever up and down and turning the movable ring (upper part)

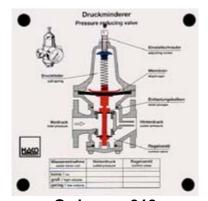


- setting the desired temperature by turning the lever and the movable ring (lower part)



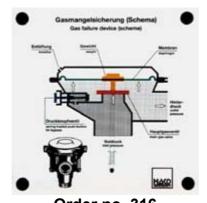
Order no. 425 Instant water heater with water volume control

- water volume control in the water volume control unit by means of pistons and springs
 function of the Venturi nozzle
- regulation of the gas volume by means of a connecting rod to the water volume control unit



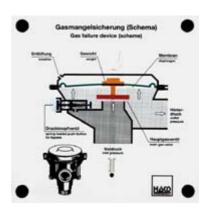
Order no. 318
1 Pressure-reducing valve

if the pressure is too high, the vlave closes
 if the pressure decrease, the valve opens
 reduction of inlet pressure.

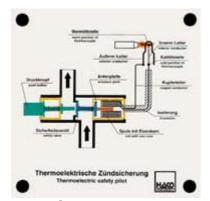


Order no. 316
Gas failure device

- safety function when line divisions are not closed - after actuation of the spring loaded push-button

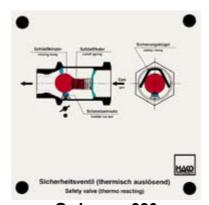


- for bypass, the main gas-valve is lifted and rest pressure increases



Order no. 377
Thermoelectric safety pilot

When the flame is alight, the safety valve is pulled back by the coil, and the gas can flow. If the flame is extinguished, the safety valve is imme-diately closed by the spring, as there is no longer any magnetism



Order no. 380 Safety valve

The closing body is held in the back position by a fuse, and the gas is able to flow.

If the fusible cut out melts, e.g. because of fire, the fuse body is pushed forwards by the spring, and the gas flows is interrupted.

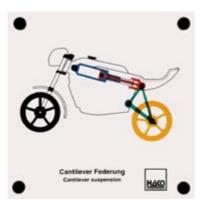


Order no. 424 Fuel oil hold-back system

-Function of the float on ingress of waste water or the ingress of heating oil

- Function of the backpressure flap and the backpressure seal
- The inflow of the waste water can be demonstrated by three movable slide bars

Sanitary engineering, two-wheel engineering, quality assurance, other



Order no. 342 Cantilever suspension

function of the central suspension strut
 function of suspension and damping during
 compression and rebounding

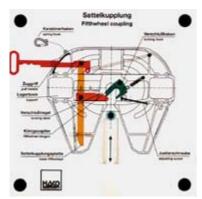


- spring progression via power deflection



Order no. 343 Rear swinging fork

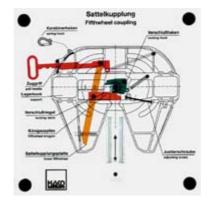
 function of a conventional rear swinging fork
 function of suspension and damping during compression and rebounding



Order no. 299 Fifthwheel (semitrailer) coupling

- coupling ready for drive in driving in the tractor
- latch locks automatically

"Ready for running in"



 the spring hook serves as a safety device
 opening the spring hook, pulling out the pull handle, releasing the locking latch, driving out tractor

"Coupling inserted"



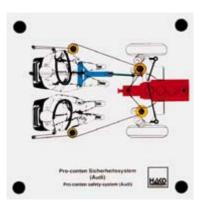
Order no. 410 Fully-automatic trailer coupling

- opening the trailer coupling by means of the hand lever
- inserting the trailer drawbar eye
 releasing the automatic locking of the trailer coupling



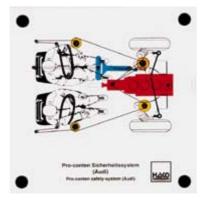
- securing the locked trailer coupling - function of the control pin

Sanitary engineering, two-wheel engineering, quality assurance, other



Order no. 185 Procon-ten safety system (Audi)

- engine can be moved backwards (simulating a frontal collision)
- the steering wheel is pulled out of the passenger compartment, and the pretensioning device

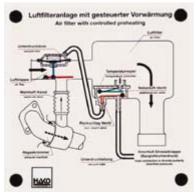


 tension shoulder and lap belt of driver and passenger simultaneously
 automatic resetting



Order no. 360 Power test

Design and function of a power analyser.
The rotor is turned by the drive wheel.
The flyweights make contract with the stator.
The stator lever presses on the balance.
This actuates the force indicator by means of a lever and gear rack. A DC supply from 0 to 12V is required.



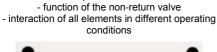
Order no. 257 Air filter with controlled preheating

- controlling the air flap by means of the vacuum box
- function of the temperature controller depending on the temperature of the inlet air



Measuring bearing clearance

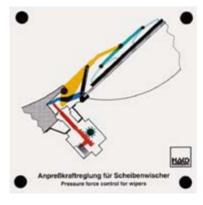
- the plastic gauge can be applied
 you can insert different journals with different diameters
- the bearing cover is pressed down
 different bearing clearances can be evaluated by comparing the width of gauge with imprinted scales



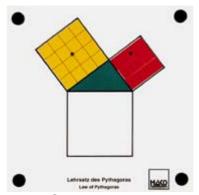


Order no. 397 Vertical force control of windscreen wipers

 function of a windscreen wiper linkage
 function of the vertical force control by means of an electric motor, rack and pinion



- demonstration of the wiper blade pressed down and raised



Order no. 160 Pythagoras' Theorem of

- the theorem of Pythagoras can be shown by converting the squares above the catheters into the square above the hypotenuse

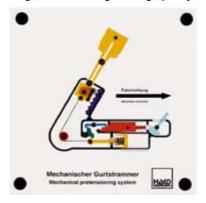
Sanitary engineering, two-wheel engineering, quality assurance, other



Order no. 415
Mechanical pretensioning
device

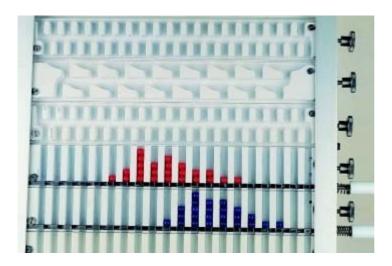
- release of the pretensioning device by the sensor mass

- release of the spring and pretensioning of the belt, holding it in this position by the locking plate



- switching off the pretensioning device





Order no. 1074 Distribution and SPC simulator

Increased use of statistical process control (SPC) in many areas of production requires an increasing level of expertise in the field of statistical random distributor.

The assessment capability of the quality management specialist is increasingly called for in various random distribution processes and their mathematical description.

Using the distribution and SPS simulator, numerous random processes can be simulated realistically and represented graphically. Real random results can be compared immediately with the ideal mathematical distribution curves. Due to the modular construction of the simulator, the processes of formation of various distribution forms can be reconstructed.

The simulator can be used by teachers for clarification or by trainees for random experiments in a statistics laboratory.

Structure:

A baseplate with side guides, a stand and a ball outlet form the basic-system which is used to locate individual modules in desired combinations:

1. "Centralised module"

This is used to receive and display large sample sizes (up to approx. n=120). Many small individual samples can be combined with it to obtain overall distribution.

Machine-capability and preliminary studies can thus be simulated.

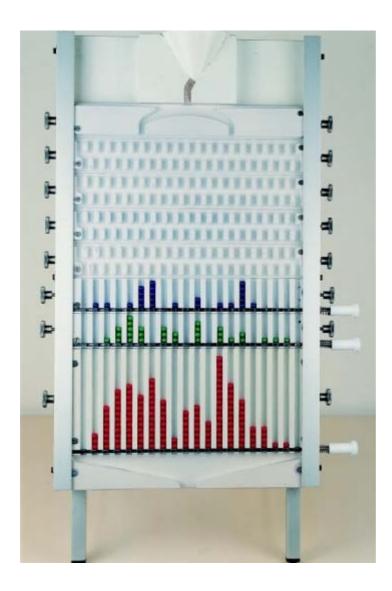
2. "Random sampling module"

This is used to receive and display random samples up to approx. n=20. Two such modules are supplied, thus always allowing the comparison of two random samples, before the are added to the overall distribution by opening the blocking slides. It also enable the centralised module to be extended, if the blocking slides of the random sampling module are opened.

3. "Normal distribution module"

Two rows of oval lugs are located on this component which distribute the arriving balls using the random sampling principle. So that the

Sanitary engineering, two-wheel engineering, quality assurance, other



balls always impinge on the next series of lugs perpendicularly, they are made to continue rolling perpendicularly after each distribution in an oblong hole.

5 standard distribution modules are supplied.
Depending on the quantity of these modules,
each of which simulates two random events, the
scatter can be varied.

4. "Asymmetrical distribution module"

The arriving balls are distributed at different distances to the left or right on two series of lugs. Different asymmetrical can be simulated by combination with several standard distribution modules.

5. "Coarse distribution module"

The arriving balls are distributed to the far left and right on a greatly enlarged distribution lug. In combination with some standard distribution modules, typical arbitrary distribution occurs for processes with parameters having a wide scatter. The deviation probabilities can be varied to the left or right by fine horizontal adjustment.

The horizontal position of all modules can be finely adjusted and set by means of adjusting screws on the side guides.

1Scope of supply:

- Baseplate with side guides, ball outlet and folding stands.
- One central module with blocking slide.
 Two random sampling modules with blocking slides
 - 4. Five standard distribution modules
 - 5. One asymmetric distribution module
 - 6. One coarse distribution module 7. 300 red balls
- 8. 50 balls each colour; green, blue, yellow and black
 - 9. Collection and storage box for the balls

Sanitary engineering, two-wheel engineering, quality assurance, other



Order no. 1075 Random sample simulator

The AQL system according to DIN 40 080 can be simulated using the random sample simulator. In a total population of n=1000 balls, 0,5%, 1%, 2%, 5%, 10% and 20% of the balls are of different colours.

This symbolizes the quantity of "bad" parts. Only the appropriate colour is considered and evaluated, depending on the AQL value assumed.

A random sample of n=100 can be taken and evaluated by simply tilting the simulator. The balls roll in ten channels. The random sample is thus shows clearly and the evaluation is simplified. Smaller random samples can also be simulated by evaluating only one part of the channel.