

# Order no. 1036 Single main brake cylinder

Demonstration: - sliding the pressure rod and piston - closing the pressure chamber differential and tracking bore function - pressure building-up - bottom valve function



## Order no. 1068 Graduated Tandem main brake cylinder with central valve

Demonstration: - as per Order no. 1037 - plus: failure of the front differential bore (due to regulation with ABS system) - opening and closing the central valve



#### Order no. 1037 Tandem main brake cylinder Demonstration:

sliding the pressure rod and piston

 closing the pressure chamber
 differential and tracking bore function

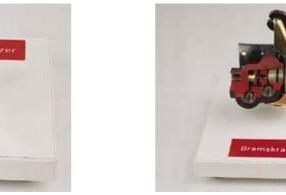
 pressure building-up

 function in the event of a failure of any circuit



#### Order no. 1118 Twintax main brake cylinder - function of both pistons - function in case of failure of one of the circuits - securing of the stepped piston - brake-pressure increase in circuit I in case of failure of circuit I - shorter pedal travel in case of failure of one of the circuits

- securing of the piston



Order no. 1083 Brake pressure reducer Function: Movement of stepped piston to reduce brake pressure Crder no. 1086

Brake pressure regulator Function: Movement of stepped piston and actuation of conical-seat valve



# Order no. 1039 Fixed calliper disc brake

Brake piston and sealant ring function
 Connecting channels between both parts of calliper
 Securing pin and split spring function
 Brake and bleed bore



# Order no. 1040 Floating calliper disc brake

- brake piston and sealant ring function

- sliding the float frame on the retainer - securing pin and split spring function
- brake and bleed bore



Order no. 1096 Hydraulic brake booster with tandem master brake cylinder Function of reaction piston, spool valve and return bore Order no. 1104 .. without master brake cylinder



# Order no. 1130 Fixed calliper disc brake with 4 brake plungers

function of sealing ring and plunger
 automatic readjustment in case of wear
 function of the connecting ports between both calliper sections
 function of the brake and ventilation bores
 if circuits I or II fail, the front axle always brakes



#### Order no. 1038 Sliding calliper disc brake Demonstrations:

brake piston and sealant ring function
 sliding the retainer on the housing (calliper)
 securing pin and split spring function
 brake and bleed bore



## Order no. 1236 Pneumatic brake power assist unit with tandem brake master cylinder

By pressing the lever the outer valve can be seen to open. The piston rod with diaphragm disk moves forward. The pressure rod moves both the pistons in the brake master cylinder and the braking process is started.



Order no. 1203 Drum brake with brake drum

The brake drum and the wheel cylinder are substantially cut away. The brake pistons can be spread using a control lever, thus applying braking pressure to the easily- turned brake drum.



Order no. 1030 ABS hydro unit

Demonstration: - function of the electric motor and return flow pump - pressure reservoir function - magnetic valve function



Order no. 1063 Spring-loaded brake cylinder - function of the spring-loaded cylinder - function of the various compressed-air supply lines - function of both springs - function of the mechanical release device



Order no. 1035 Wheel cylinder Demonstration: - function of sleeve, piston and adjusting ring



Order no. 1144 Piston cylinder piston extension when rear chamber is ventilated

piston extension when rear chamber is ventilated piston retraction via the force of the incorporated spring



Order no. 1131 Diaphragm cylinder - connection of both housing sections - splitting up of housing in two chambers by means of the rubber diaphragm - piston extension and retraction



# Order no. 1057

Operating brake valve 1 Demonstrations: - movement of the graduating and control piston opening and closing the inlet and outlet - release, partial braking and full braking position



Order no. 1137 **Operating brake valve 2** 



## **Order no. 1059 Trailer brake valve**

Demonstrations: - activation of the trailer brake system - emergency braking in the event of pressure loss in the reservoir line - applying the brake on the coupled trailer - piston and valve functions



**Order no. 1060 Trailer control valve** Demonstrations:

- function of both pistons and the valve - function in the release, partial braking and full braking position - applying the brake with the help of the safety brake valve



Order no. 1031 Air compressor - function of the crankshaft drive - function of the valves

## Order no. 1271 Cutaway model: Parking secondary brake valve

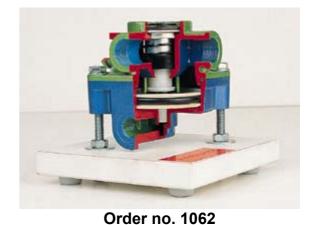
It has the task of holding the stationary vehicle by purely mechanically generated forces. If the service brake system fails, it acts as a secondary brake.

Functions: driving position, parking brake position, partial braking position, secondary brake.



# Order no. 1058 Quadruple circuit shut-off valve

Demonstration: - distribution of the compressed air to the individual brake circuits - guarantees pressure to the intact circuit in the event of a pressure loss in a defective brake circuit - the return and exess flow valve functions



- function of the valve spring - driving position and braking position



Order no. 1113 Automatic water drain valve - lifting of the valve's body

lifting of the valve's body
 condensed water collection
 cambering of the valve body's diaphragm
 condensed water drainage



Order no. 1117 Non-return valve function of a non-return valve air flow only possible in one direction



Load-idle valve - function of the piston and valves - driving positions - actuation of the mergency and parking brake system - actuation of the service brake system - corresponding activation and deactivation of the mergency and parking brake system



Pressure regulator
 function of the intake and exhaust valves
 - function of the diaphragm
 - function of the valve's body
 - load position, idle position, top-up position



Order no. 1045 Air dryer - function of the various valves - function of the granulate - granulate regeneration



Order no. 1116 Automatic antifreeze pump - function of the automatic antifreeze pump - automatic injection of the antifreeze agent



### Order no. 1109 Automatic load-dependent brake power distributor

function of the control lever
 release, partial-load and full load position

 function of the valves
 function of the plunger



Order no. 1114 Line filter - function of the line filter - filter cartdridge



# Order no. 1110 Coupling head, brake air pressure

clutch engagement, declutching

 seal function
 function of the claws on both heads

 no mix up safety



Order no. 1112 Brake coupling head

Functions: - clutch engagement, declutching - seal function - function of the claws on both heads - no mix up safety