

Adjustment and calibration benches

WIKA Data Sheet CT 91.11

Applications

- Provision of pressure by production, test departments, service, maintenance shops and laboratories
- Testing, calibrating and adjusting all types of pressure measuring instruments

Special Features

- Pneumatic test benches -1/+30 bar to -1/+400 bar for medium air or nitrogen
- Hydraulic test benches 10/max. 1600 bar for medium water or oil
- Combined test benches
- Application-specific test benches, the possibilities of variation are specified in the table on the next page



Adjustment and calibration bench

Description

The **pneumatic test benches** are fitted with a self-venting precision pressure reducing valve for the preselection of the desired test pressure with supply and vent pressure gauge, 2 test connections with knurled nut M28 x 1.5 and threaded adapter G 1/2", 2 fine adjustment valves for pressure inlet and outlet and a connection coupling for the adaption of the pressure supply from a cylinder or supply line. The vacuum version has an additional fine adjustment valve for vacuum and an electrical slide vane rotary vacuum pump integrated in the test bench.

The **hydraulic test benches** are fitted with a self-venting precision pressure reducing valve for the preselection of the desired test pressure with supply and vent pressure gauge, pre-stress reducing valve with pressure gauge, 2 test connections with knurled nut M28 x 1.5 and threaded adapter G 1/2", 2 fine adjustment valves for pressure inlet and outlet, a pressure converter for automatic pressure generation, a medium reservoir and a connection coupling for the adaption of the pneumatic pre-stress supply from a cylinder or a supply line.

The individual components of the adjustment and calibration benches are mounted to an assembly table which consists of a "Bosch" aluminium frame and, in the standard version, a 40 mm thick particle board with blue coating and edge bandings (750 x 1400 mm), including complete tubing.

On request the following designs are also available:

- Table top laminated, 40 mm thick, colour blue
- Table top as particle board plated with marbled stainless steel

The adjustment and calibration benches are intended for permanent operation and generally do not require any regular maintenance or servicing. Only the oil/water supply in hydraulic test benches has to be checked on a regular basis and refilled as required.

On-site requirements, to be provided by the customer:
Compressed air supply of at least 30 bar.

This table lists the possible options for application-specific adjustment and calibration benches:

Options	Pneumatic test bench -1/+30 bar	Pneumatic test bench -1/+400 bar	Hydraulic test bench 1000 bar	Hydraulic test bench 1600 bar	Oil test bench 1600 bar
Controls					
Electrically controlled					-----
Pneumatic with adjustment valve, low pressure		-----			
Pneumatic with adjustment valve, high pressure			-----	-----	-----
Pneumatic with manifold and adjustment valve, low pressure			-----	-----	-----
Pneumatic with manifold and adjustment valve, high pressure			-----	-----	-----
Connector block with quick connection					
Pressure reducing valves					
High-precision reducing valves 0.02 ... 4.0 bar		-----			-----
Precision reducing valves 0.35 ... 28 bar					-----
Dome reducing valves 30 ... 400 bar					-----
Mounting and clamping devices					
Measuring column G ½", high pressure					
Measuring column G ½", low pressure					
Table flange, G ½"					
Clamp, pneumatically actuated, suitable accessories are available on request					
Operating system					
Pressure converter high pressure 1:56	-----	-----			
Pressure converter low pressure 1:9	-----	-----			-----
Nitrogen cylinder, 200 bar		-----			
High-pressure compressor	-----				
Extras					
Numatic hydrometer, 800 bar	-----		-----	-----	-----
Pre-stress converter 1:4	-----	-----			-----
Pre-stress converter 1:2.5	-----	-----			
Dirt trap				-----	-----
Vacuum pump			-----	-----	-----
Digital display/pressure transducer					
Safety shield (Macrolon)					
Pointer fixing gun with holder					
Micro air screw driver					
Shelving for master gauge					
Set of adapters for connection column					
Table tops					
Particle board, blue, standard					
Laminated, blue					
Table options					
Shelving, "Bosch" profile					
Electrical outlets (shock-proof)					
Plastic drawers					
Metal shelves, various lengths					
Drawer cabinet					
Panelling					
Light					

----- This variant is **not** possible for this test bench!

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

