

Z7757 - Testing pump for pressure



Precision test pump for accurate and fast pressure testing or leak testing of injection molds and mold inserts.

Technical data

Max. Pressure	0 - 50 bar
Max. temperatur	max. 50°C / 122°F
Norminal capacity of the pump tank	12 l
Suction capacity	ca. 45 ml / Hub
Dimensions	510 x 200 x 260 mm (L x B x H)
Connector	G 1/2"; G 1/8"; Connector plugs Z 7713-1+2

Appliance Feature

The hand pump for pressure tests is used to test the tightness and strength of the systems and receivers supplied with water, including solar heating systems supplied with a water-glycol solution.

Safety Requirements

Before starting pressure tests, read the test procedure defined in the documentation accompanying the receiver or the system. Performing the test procedure incorrectly can damage the tested device and the pump itself. The manufacturer is not responsible for any damage caused by improper application of the pump. During the test procedure, use personal protective equipment such as: safety glasses, protective clothing with long sleeves and legs. Use protective footwear with anti-slip soles. Wear protective gloves, too. During a pressure test, the tested device could unseal, resulting in ejecting high-pressure water jets. Any contact between an unprotected part of the body with such a jet of water could lead to skin perforation. Spilled water could be slippery, causing the risk of injuries. The pump can work with water or a water solution of glycol used in solar heating systems. It is not allowed to use the pump with any other liquid.

Installation of the Pump

The pump is mounted by screwing the handle into the holder. The rear wall of the pump features a rotating hook, which is used to fix the handle in the lower position. Keeping the pump handle in the lower position provides better protection of the pump's piston.

Test Procedure

Make sure that both pump valves are open. Turn them counter-clockwise. Connect the pump hose to the device under test. Fill the pump tank with water or glycol-water solution, depending on the recommendations defined in the documentation supplied with the tested device. Close the V2 valve by turning it clockwise all the way. Fill the tested device with liquid and purge it. Close all valves in the unit. Start pumping, by moving the handle up and down. Observe the pressure gauge's pointer to ensure that the pressure defined in the documentation supplied with the

device under test is not exceeded. When the test pressure is reached, close the V1 valve, by turning it clockwise all the way. If a leak develops in the tested device, it will be indicated by a pressure drop. Follow the instructions provided in the unit's documentation with regard to test duration and pressure drop. After completing the test, open the V1 and V2 valves, by turning them counter-clockwise. This will reduce pressure in the system. The pressure gauge's pointer

should point to zero. Remove water from the pump tank.

Maintenance

Empty the pump's water tank. Close the V2 valve and start pumping. This will remove any residual water from the pump's system and from the hose. Dry the remaining water with a soft cloth.

The pump piston connected with the handle should be periodically lubricated with a water-resistant grease. Do not allow the pump piston to rust. Store the pump in shaded, ventilated rooms. Protect the pump from dust, dirt and other contaminants. Before filling the pump with water, thoroughly clean the inside of the tank. Contamination from the tank can damage the system, if it penetrates into the tested system.