RTZ-100
HAND PRESSURE TESTERS

ISH PUMPS OLOMOUC

APPLICATION

- designed for pressure testing of enclosed areas of machine equipment (pipes, boilers, heating) by the working pressure of 10MPa
- tester is attached to a firm base before handling by three feet on the bottom of the body (for example screwing to the plate, tightening with fixture to the construction, etc.)
- the liquid for pressurizing can be taken from a vessel located within reach of a
  2 m long suction hose and / or from a water mains

WORKING CONDITIONS

- for pressurizing use only clean liquid – drinking or supply water, mineral oils – with no mechanical impurities
- medium temperature up to +50 ^{o}C
- kinematic viscosity up to 20 $mm^2.s^{-1}$

TYPE IDENTIFICATION

RTZ - 100

- 100 — max. working pressure in bars (10 MPa)
- RTZ — hand pressure tester

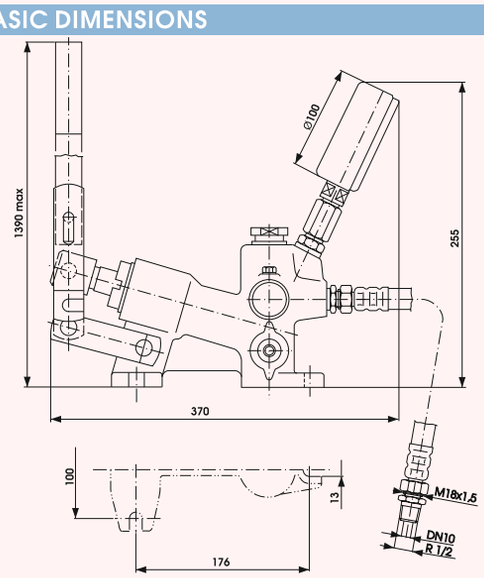
CONSTRUCTION

- the RTZ-100 tester consist of a plunger pump with hand lever, suction and a discharge ball valve, pressure gauge, suction and a discharge connection and by-pass valve
- swinging hand lever causes plunger to move in and out of the working cavity of casing
- during the outward movement of the plunger from the cavity of the casing the pump draws liquid from a source through hose via suction valve (discharge valve is closed)
- during the opposite movement of the plunger into the cavity of the casing the suction valve is closed and liquid flows through a discharge valve into pressure hose and tested space
- this way of pumping is the tested space pressurized
- relieving the pressure in the pressure space is possible after opening the by-pass ball valve
- lever can be set into horizontal position, where it serves as a holder for comfortable transfer of the pump

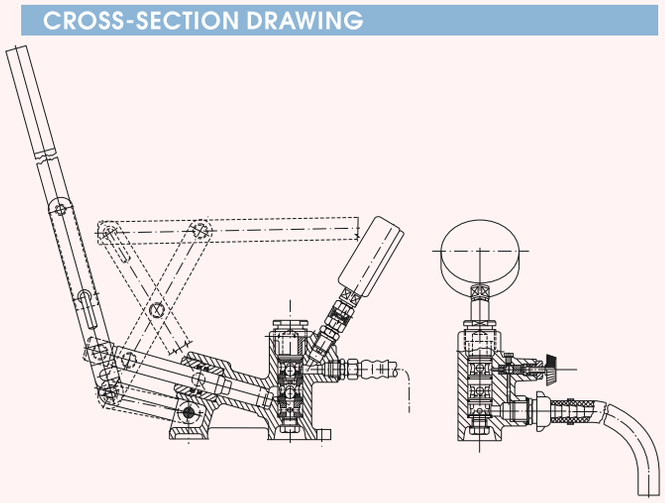
MATERIAL SPECIFICATION

Part name	material
body	cast iron with laminated graphite
plunger	stainless steel
guide bushings, valve seats	non-ferrous metal
valve balls	stainless steel
sealing rings, cuffs	oil resistant rubber
pressure gauge pad	copper
bolts	galvanised carbon steel
other parts	galvanised carbon steel

BASIC DIMENSIONS



CROSS-SECTION DRAWING



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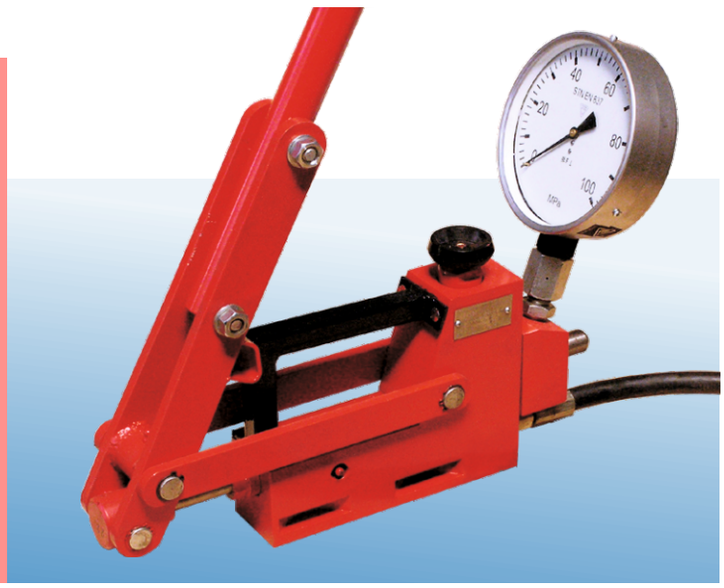
RTZ-600
HAND PRESSURE TESTERS

RTZ 600



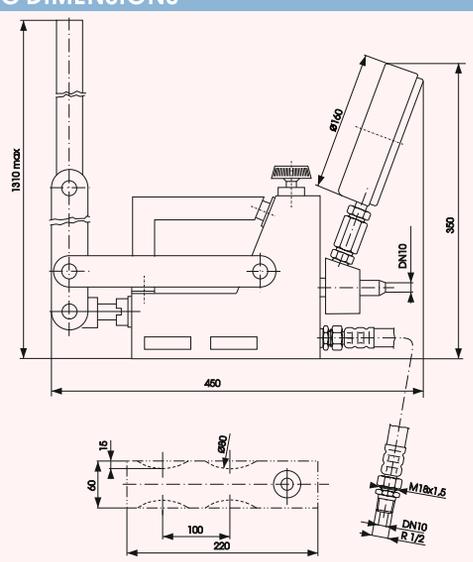
APPLICATION

- designed for pressure testing of enclosed areas of machine equipment by the working pressure of 60 MPa
- tester is attached to a firm base before handling or metal construction, in a vice, etc.
- the liquid for pressurizing can be taken from water mains or pressure tester RTZ – 100, or from a tank placed to ensure inlet in to the pump (RTZ – 600 is not capable of suction)

WORKING CONDITIONS

- for pressurizing use only clean liquid – drinking or supply water, mineral oils – with no mechanical impurities
- medium temperature up to +50 ^{O}C
- kinematic viscosity up to 20 $mm^2.s^{-1}$

BASIC DIMENSIONS



TYPE IDENTIFICATION

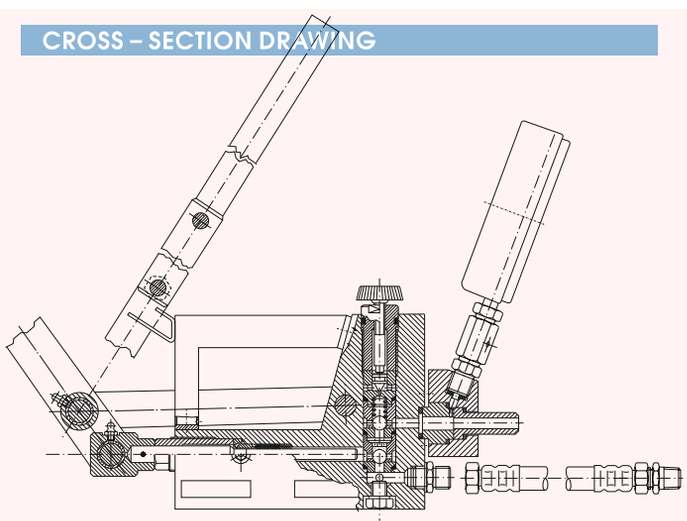
RTZ - 600

- 600 – max. working pressure in bars (60 MPa)
- RTZ – hand pressure tester

CONSTRUCTION

- the RTZ-100 tester consist of a plunger pump with hand lever, suction and discharge ball valve, pressure gauge, suction and discharge connection
- pump plunger works horizontally, lever swings around vertical axis
- lever mechanism and plunger assembly is equipped with lubricators
- swinging hand lever causes plunger to move in and out of the working cavity of casing
- during the outward movement of the plunger from the cavity of the casing the pump draws liquid from a source through hose via suction valve (discharge valve is closed)
- during the opposite movement of the plunger into the cavity of the casing the suction valve is closed and liquid flows through a discharge valve, discharge extension into pressurized equipment
- this way of pumping is the tested space pressurized
- relieving the pressure is done by releasing the spindle – relief valve plug will be moved, liquid escapes through return channel into the spaces under suction valve and pressures will equal

CROSS – SECTION DRAWING



MATERIAL SPECIFICATION

Part name	material
body	rolled carbon steel
plunger	stainless steel
guide bushings, valve seats	non-ferrous metal
valve balls	stainless steel
sealing rings, cuffs	oil resistant rubber
pressure gauge pad	copper
bolts	galvanised carbon steel
other parts	galvanised carbon steel

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