

HYDRAULIC PRESSURE TEST MACHINE

The unit JS 075 will be used for the hydraulic pressure tests of cylinders. The pressure tests machine is established for making pressure test of 6 pressure cylinders at once. Cylinders are tested by overpressure up to 450 bar (function of the working pressure and sort of gas). Cylinders are tested by drinking water. Standard preset test pressure levels are 225 bar, 250 bar, 300 bar and 450 bar (it can be customized). The pressure goes up automatically and the pressure test process value is displayed. After reaching the set value the pressure level stops going up and acoustic signal for operators occurs. The loaded cylinders at the stand can be mechanically reversed and emptied from water.

Main technical parameters of equipment:

| | |
|-------------------------------------|--|
| – Type | JS 075 |
| – Max. operating pressure | 450 bar |
| – PN | 450 |
| – DN | 10 |
| – Operating medium | water |
| – Working temperature of medium | +5 / + 90°C |
| – Ambient temperature | +5 / +35 °C |
| – Pressure and Leak test pressure | 565 bar |
| – Water connection | G 1" Male |
| – Operating air connection | |
| DN | 12 |
| PN | 10 |
| MAWP | 8 bar |
| type | FESTO 16 house quick socket |
| – Proportions (L x W x H) | ca 2500x800x2250 mm |
| – Weight | ca 350 kg |
| – Electric supply | 3x400V/230V/50 Hz, TN-S |
| – Electric input | ca 1,8 kW |
| – Electric supply connection | fixed |
| – Head circuit breaker | 10A |
| – IP | 20 |
| – Class of electric equipment | I. class acc. HD CENELEC 366 S1 |
| – Protection against electric shock | power supply disconnecting acc. HD CENELEC 384.4.41S1 |
| – Cylinder loading—in capacity | 6 pcs |
| – Cylinder operating OD range | 140 ÷ 229 mm |
| – Cylinder operating high range | 835 ÷ 1585 mm |



UNIT FOR CLEANING OF CYLINDERS

The LIC cylinders cleaning unit is usually installed in the filling room for possibility of preparation of single cylinders before the filling – the cleaning of cylinders is important mainly in the case of cylinders for food industry. The unit makes possible to fix six single cylinders to frame, to rotate the cylinders and discharge the liquid impurities into sewerage system, to evacuate the cylinders by the rotary-vane vacuum pump and to fill cylinders by the gaseous carbon dioxide.

Main technical parameters of equipment:

- Type JS 079
- CO2 connection
 - DN 10
 - PN 10
 - MAWP 1,5 bar
 - type FESTO 12 house quick socket
- Operating air connection
 - DN 12
 - PN 10
 - MAWP 8 bar
 - type FESTO 16 house quick socket
- Vacuum source
 - nominal capacity 40 m³/h
 - ultimate vacuum 50 mbar
 - DN 25
- Proportions (L x W x H) ca 3500x1900x1850 mm
- Weight ca 350 kg
- Electric supply 3x400V/230V/50 Hz, TN-S
- Electric input ca 1,8 kW
- Electric supply connection fixed
- Head circuit breaker 10A
- IP 43/20
- Class of electric equipment I. class
acc. HD CENELEC 366 S1
- Protection against electric shock power supply disconnecting
acc. HD CENELEC 384.4.41 S1
- Cylinder loading-in capacity 6 pcs
- Cylinder operating OD range 140 ÷ 229 mm
- Cylinder operating high range 835 ÷ 1585 mm



TORQUE MACHINE

The torque machine type JF 290 it is designed for cylinder-valve fitting OFF/ON. It is possible to screw on the standard industrial gas- cylinder valves. The optional tightening torque values are adjustable.

Main technical parameters of equipment:

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|-------------------------------------|---|
| – Type | JF 290 |
| – Operating air connection | |
| DN | 10 |
| PN | 10 |
| MAWP | 8 bar |
| type | FESTO 12 house quick socket |
| – Proportions (L x W x H) | ca 1000x1000x4300 mm |
| – Weight | ca 950 kg |
| – Electric supply | 3x400V/230V/50 Hz, TN-S |
| – Electric input | ca 2,3 kW |
| – Electric supply connection | fixed |
| – Head circuit breaker | 16A |
| – IP | 43/20 |
| – Class of electric equipment | I. class acc. HD CENELEC 366 S1 |
| – Protection against electric shock | power supply disconnecting acc. HD CENELEC 384.4.41 S1 |
| – Cylinder loading-in capacity | 1 pcs |
| – Cylinder operating OD range | 100 ÷ 300 mm |
| – Cylinder operating high range | 820 ÷ 1850 mm |
| – The clamping force of jaw s | ca 1 200 kg (at 0,6 bar) |



DRYING MACHINE

The drying machine JS 091 will be used for drying of cylinders after the hydraulic pressure tests. Unit makes possible drying of up to 96 cylinders at once. The hot air (ca 82 °C) is used as the drying media. There is the blower as the source of air, this air is warmed-up by the electrical heating elements. Air is blown to bottom of cylinders by flexible hoses, Hoses are connected to air distributor by self-closed connectors (the connector is closed if hose is not connected). The machine is prepared for automatic operation in the night-time (regulation by timer) – operator is not persecuted with the noise of blower.



Main technical parameters of equipment:

| | |
|--------------------------------------|--|
| – Type | JS 091 |
| – Medium working temperature | +5 / +40°C |
| – Max. temperature of the drying air | 90°C |
| – Cylinder loading-in capacity | 96 pcs |
| – Cylinder operating OD range | 60 ÷ 229 mm |
| – Cylinder operating high range | 835 ÷ 1585 mm |
| – Proportions (L x W x H) | ca 3170x2300x2200 mm |
| – Weight | ca 450 kg |
| – Electric supply | 3x400V/230V/50 Hz, TN-S |
| – Electric input | ca 15 kW |
| – Electric supply connection | fixed |
| – Head circuit breaker | 32A |
| – IP | IP 43/20 |
| – Class of electric equipment | I. class acc. HD CENELEC 366 S1 |
| – Protection against electric shock | power supply disconnecting acc. HD CENELEC 384.4.41S1 |



BRUSHING MACHINE

The cylinder cleaning unit JF 353 is designed for much type of pressure cylinders cleaning. The cleaning unit consists of a closed frame with a door, a movable and rotary wire brushes (driven by electromotor), a rotary pad (driven by electromotor) and a movable arm for the cylinder lock.

The cylinder stands on the rotating pad fixed by movable arm and the door must be close. When the machine is started the brushes rotate and go up along the cylinder and the cylinder surface is cleaning. The brushes motion is stopped at the top of the cylinder by limit switch. The limit switch is set according to the cylinder height automatically.

There is the control unit with six programs for the equipment operating.

Main technical parameters of equipment:

| | |
|-------------------------------------|--|
| – Type | JF 353 |
| – Medium working temperature | +5 / +40°C |
| – Cylinder loading-in capacity | 1 pc |
| – Cylinder operating OD range | 60 ÷ 229 mm |
| – Cylinder operating high range | 835 ÷ 1585 mm |
| – Proportions (L x W x H) | ca 500x860x2600 mm |
| – Weight | ca 450 kg |
| – Electric supply | 3x400V/230V/50 Hz, TN-S |
| – Electric input | ca 3,8 kW |
| – Electric supply connection | fixed |
| – Head circuit breaker | 20A |
| – IP | IP 44 |
| – Class of electric equipment | I. class acc. HD CENELEC 366 S1 |
| – Protection against electric shock | power supply disconnecting acc. HD CENELEC 384.4.41S1 |



VARNISHING STAND

The JF 287 equipment is designed and made for easy lacquering of the outer surface of the steel pressure cylinders used for transporting gases.

The equipment is designed for coating pigments dilutable with water by means of a roller. Other kinds of pigments must not be used on the equipment.

The supplied equipment includes the adapters enabling safe furnishing and centring of the pressure cylinders with different kinds of bottoms and the stand for exhausting vapours arising during coating.

The rotating pad, the electromotor and the gear box are fixed on the firm frame under floor. The pad is localized abreast with the floor for easy cylinder manipulation.

Main technical parameters of equipment:

| | |
|-------------------------------------|--|
| – Type | JF 287 |
| – Medium working temperature | +5 / +40°C |
| – Cylinder loading-in capacity | 1 pc |
| – Cylinder operating OD range | max. 240 mm |
| – Cylinder operating high range | max. 1750 mm |
| – Proportions (L x W x H) mm | ca 640x860x2200 |
| – Weight | ca 110 kg |
| – Electric supply | 3x400V/230V/50 Hz, TN-S |
| – Electric input | ca 0,55 kW |
| – Electric supply connection | fixed |
| – Head circuit breaker | 10A |
| – IP | IP 54 |
| – Class of electric equipment | I. class acc. HD CENELEC 366 S1 |
| – Protection against electric shock | power supply disconnecting acc. HD CENELEC 384.4.41S1 |

