



## PRESSURE CYLINDER VALVE SCREWING/UNSCREWING MACHINE

# ZV - III

The pressure cylinder valve screwing /unscrewing machine is designed to screw down valves of fire extinguishers and of pressure cylinders containing compressed gases /oxygen, air, inert gases etc./.

The machine can also be used in any other application which requires an accurate screwing/unscrewing torque setting. In comparison to other machines designed for similar purposes, the machine has the following advantages:

1. The possibility of a fast and sufficiently rigid clamping of the pressure cylinder.
2. The machine can be coupled to a compressed air source, or to a pressure cylinder equipped with a pressure regulator.
3. The machine is equipped with a protective shield without which it cannot be turned on to unscrew valves.
4. The control is effected from a single position, as the control panel is mounted on a pivoting arm.
5. The machine offers the possibility of automatic unscrewing of valves from pressure cylinders of all types according to a pre-set torque.
6. The same applies to valves being screwed into pressure cylinders.
7. There are not variations of the torque setting at work.
8. The machine features an electromechanically operated head which moves according to the pressure cylinder type being handled.
9. The machine can use a 380 V, 50 Hz electric power source.

### TECHNICAL SPECIFICATIONS

Main electric motor power input	1,5 kW
Head lifting electric motor power input	0,375 kW
Power source specifications	3 PEN 380 V/TN/C-S
Control and auxiliary circuitry voltage	220 VAC
Shock protection	IP 43
Current	3 x 4,5 A
Frequency	50 Hz
Compliance with standards	ČSN 33 22 00
Main motor speed	1,400 rpm
Screw-down spindle speed	30 rpm
Screw-down torque setting range	0 - 860,25 N . m
Unscrewing torque setting range	0 - 3.441 N . m
Clamping force at air pressure from 0.5 to 1 MPa	15.000 - 30.000 N

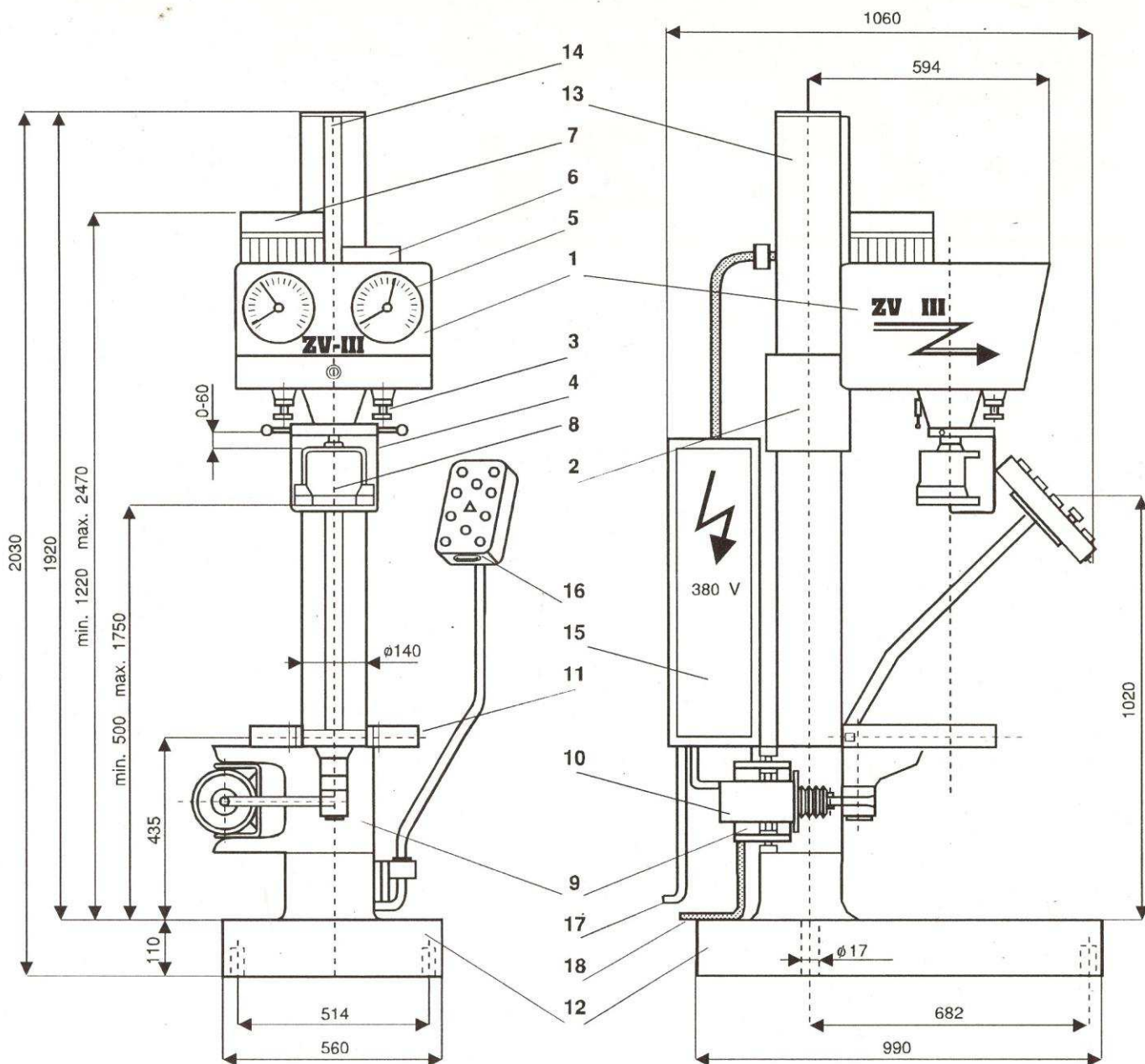
The values given above are indicative and the manufacturer reserves the right of innovative changes.

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### MACHINE DESCRIPTION

- |   |                                 |
|---|---------------------------------|
| 1. Screwing/unscrewing head                                   | 10. Pneumatic clamping cylinder |
| 2. Screwing head gearbox with suspension bushing              | 11. Clamping jaws               |
| 3. Pressure setting and adjustment screw on contact device    | 12. Machine base                |
| 4. Screwing head transparent protective shield                | 13. Machine column              |
| 5. Contact device for setting screwing and unscrewing torques | 14. Rack                        |
| 6. Machine column head travel drive electric motor            | 15. Electric switchboard        |
| 7. Screwing and unscrewing electric motor                     | 16. Control box                 |
| 8. Screwing and unscrewing spanner                            | 17. 0.5 to 1.0 MPa air supply   |
| 9. Complete clamping device                                   | 18. Electric power supply       |

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