

# AJS-SQ2-D3 KEG Washing Machine



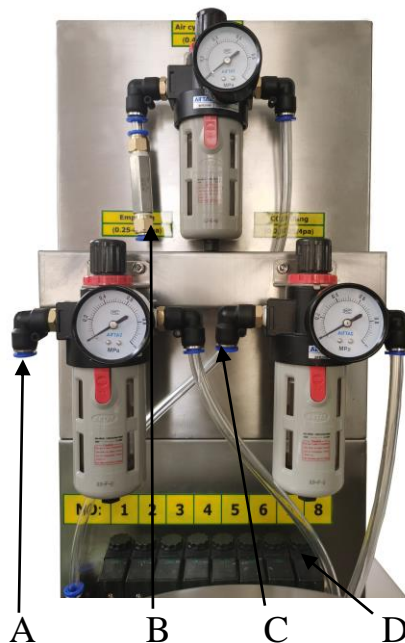
## Operation Manual

## I. Main Technical Parameters

### 1. Technical parameters

Air Source Pressure	87~116 PSI (0.6~0.8Mpa)
CO <sub>2</sub> Air Source Pressure	58~87 PSI (0.4~0.6Mpa)
CO <sub>2</sub> Counterbalance Valve Pressure	21.7~29 PSI (0.15~0.2Mpa)
Pneumatic Valve Pressure	29-36.2 PSI (0.2-0.25Mpa)
Clean Water Pressure	29-43.5 PSI (0.2-0.3Mpa)
Power Voltage	Three-phase 220V 60Hz

## II. Air Channel and Pipeline Parts and Their Functions



A. Compressed air pneumatic valve interface: Use the air pipe with  $\phi 10\text{mm}$  PU external diameter to insert and connect with the interface for cleaning the pneumatic pressure, adjusting the pressure to 29 - 43.5 psi (0.2-0.3Mpa) .

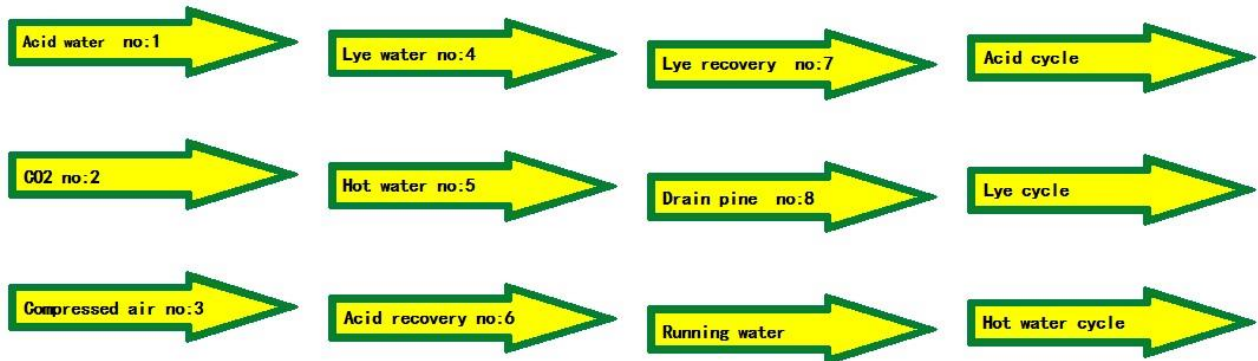
B. Compressed air pressure regulator: Use the air pipe with  $\phi 10\text{mm}$  PU external diameter to insert and connect with the interface for opening pressure of angle seat valve, adjusting working pressure to 58 – 65 psi(0.4-0.45Mpa.).

C. CO<sub>2</sub> Counterbalance Valve: Use the air pipe with  $\phi 10\text{mm}$  external diameter to

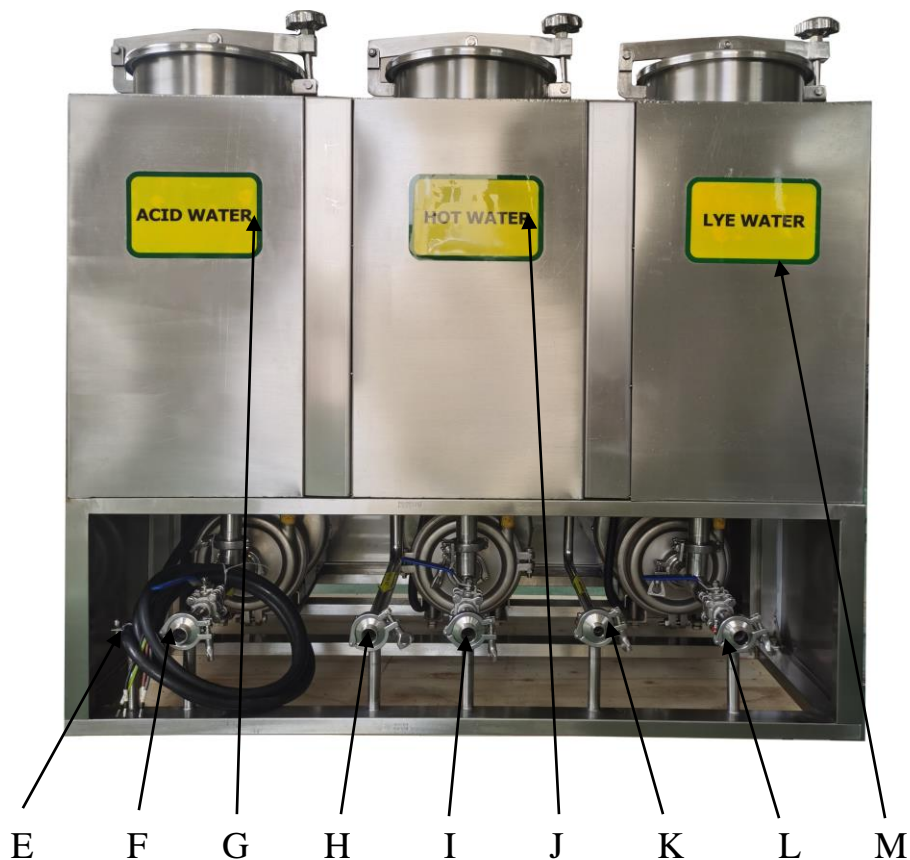
insert and connect with the interface for preparing CO<sub>2</sub> pressure, adjusting pressure to 29 - 43.5 psi (0.2-0.3Mpa).

D. Solenoid valve: Control the switching state of stainless steel valve.

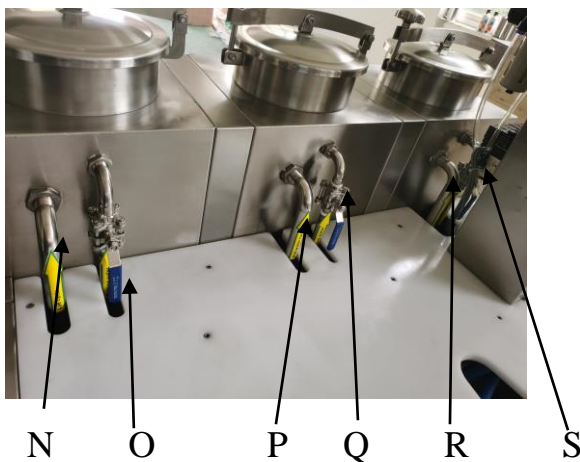
F



The above is the serial number and related functions of the corresponding angle seat valve of solenoid valve and pipeline.



- C. Power supply: The machine adopts three-phase 220V 60Hz power supply voltage.
- D. Sewage outlet of acid water tank: Used for replacing sewage in the tank. DN25 hose can be connected to the interface, leading to the sewage ditch.
- E. Acid water tank:
- F. Sewage cleaning interface: DN20 hose can be connected to the interface, leading into the drainage ditch.
- G. Sewage outlet of hot water tank: Used for replacing sewage in the tank. DN25 hose can be connected to the interface, leading to led sewage ditch.
- H. Hot water tank:
- I. Clean water inlet interface: DN15 hose can be used for docking with quick loading slipknot.
- J. Sewage outlet of lye water tank: used for draining the polluted lye in the water tank when replacing lye. DN25 hose can be connected to the interface, leading to the sewage ditch.
- K. Hot lye water tank:



L. Acid water circulation pipeline of acid water tank.

M. Acid water tank inlet control ball valve.

N. Hot water circulation pipeline of hot water tank.

O. Water inlet control ball valve of hot water tank.

P. Lye water circulation pipeline of hot lye water tank.

Q. Water inlet control ball valve of hot lye water tank.

R. American standard cask type A plate distributor: When cleaning the cask, it is required to install the distributor onto the Type A spear of the American standard cask, press the handle and open small ball valve switch (U, V).

S. Plate distributor inlet ball valve.

T. Plate distributor outlet ball valve.



U. Cleaning machine operation touch screen.

V. Cleaning machine stop button.

W. Cleaning machine power switch.

X. Cleaning machine start witch.

### III. Working Procedures

Install distributor → Turn the cask upside down on the countertop → Press the start button → Air pushing (discharge residual liquid) → hot water rinse → Air rushing (discharge clean water) - Hot lye cleaning → air rushing (recycle hot lye water) → Hot water cleaning → Air rushing (discharge clean water) → Acid cleaning → Air rushing (recycle acid) → Hot water cleaning → Air rushing (Discharge clean water) → CO<sub>2</sub> air rushing → CO<sub>2</sub> pressure prepared → Stop (remove the distributor)

### IV. Installation

1. Requirements for the installation site: The installation site shall be equipped with power supply, air source, water source, CO<sub>2</sub> air source and good drainage conditions.
2. Installation of pipeline and air channel:
  - 1) Clean up the welding slag, dust and other foreign matter in the pipeline first.
  - 2) Hot lye water tank inlet ball valve S: Open the inlet ball valve S, then close the ball valve when the water level is 8 inches from the top of the water tank, and match the lye concentration in a certain proportion.
  - 3) Hot lye water tank outlet L: Use a DN25 hose connector to connect with ball valve, leading to drain ditch with hose.
  - 4) Compressed air inlet B: Lead the compressed air using 87 ~ 116 PSI(0.6~0.8Mpa) high-pressure air pipe with  $\phi$ 10mm external diameter to the right angle joint and insert and connect firmly. Adjust the pneumatic valve pressure to 65 PSI (0.45Mpa) .



- 5) Pneumatic valve inlet A: Lead high pressure air pipe with  $\phi 10$ inch external diameter to the right angle joint and insert firmly. Adjust pneumatic valve pressure to 36 – 43.5 PSI (0.25-0.3Mpa) .
  - 6) Clean water tank inlet Q: Just open the water inlet control ball valve, there is a floating ball in the water tank, and the water inlet can be automatically closed according to the liquid level.
  - 7) Hot clean water tank drain F: Use a DN25 hose connector to connect with ball valve, leading to drain ditch with hose.
  - 8) Acid water tank inlet O: Open the inlet ball valve, then close the ball valve when the water level is 8 inches from the top of the water tank, and adjust the acid concentration according to a certain ratio.
  - 9) Acid water tank drain G: Use a DN25 hose connector to connect with ball valve, leading to drain ditch with hose.
  - 10) CO<sub>2</sub> inlet C: Use a high-pressure air pipe with  $\phi 10$ mm external diameter to guide the CO<sub>2</sub> of 29~43.5 PSI(0.2~0.3Mpa) to the straight joint and insert and connect it firmly.
  - 11) Sewage outlet H: Use a DN25 hose to connect with the monofilament head and lead water into the drain.
3. Connect the power, the power supply is 220V 60Hz/3P.
  4. Pressure regulator regulation method and maintenance:
    - 1). Before turning the knob, please pull it up first and then rotate it, and rotate the



knob depressed for the position.

- 2) Turning the knob clockwise is to increase the outlet pressure, while counterclockwise is to reduce the outlet pressure.
- 3) When in use, the pressure should not exceed 137.7 PSI (0.95Mpa), and the filter element should be replaced in time when the outlet air volume significantly decreases.
- 4) Periodically inject JIS K2213 oil (ISO VG32 or the same grade oil) into the oiler.

The number 0 means small amount of oil and 9 means large amount of oil.

## V. Maintain

### 1. Maintain:

- 1) After daily work, cut off the power supply, disconnect the air source, and turn off the water source.
- 2) Prepare cleaning fluid before work, and replace the cleaning fluid regularly as needed.
- 3) Keep a certain amount of lubricating oil in the cylinder valve oil cup, and release the water in the separator in time.
- 4) Under low temperature and long-term shutdown state: When the equipment is not used for a long time or the temperature is below zero degrees Celsius, the water in the pump, valve, and pipeline should be drained to avoid freezing the pump head, valve, and pipe fittings.
  - 1) Drain water: Open the water tank drain valve, and then open the water pump drain after the water in the tank is drained, and tighten the screw after the water in the pump



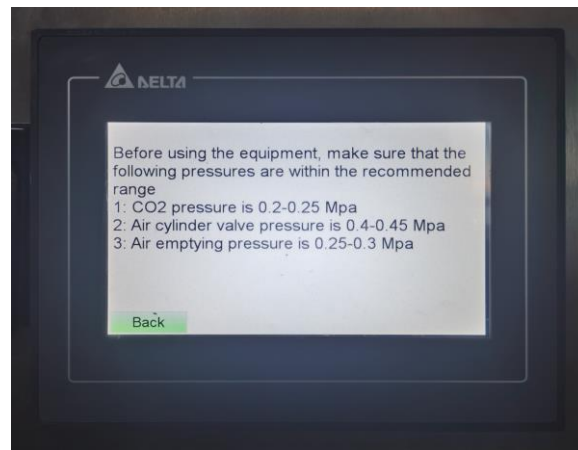
drains.

2) The water pump may not rotate when it is turned on again after a long period of shutdown. The reason is that the resistance of the sealing ring of the water pump is too large and it is not a malfunction of the equipment. The solution is to use a screwdriver to move the fan blade of the water pump a few times.

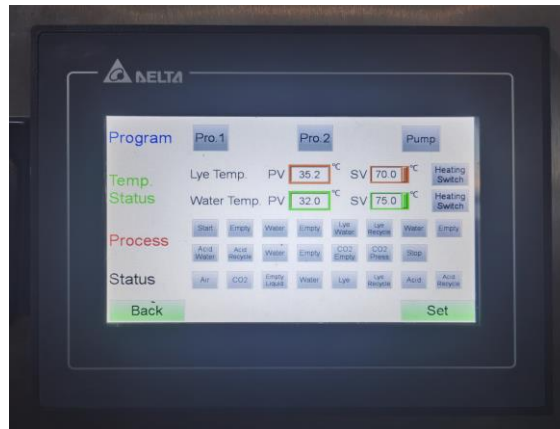
## VI. Touch Screen Interface and Time Parameter Setting and Adjustment.



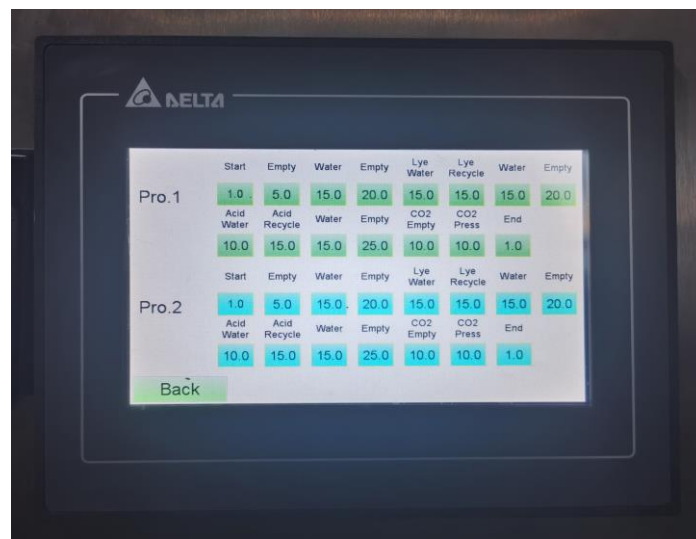
Touch Screen Initial Interface



Touch Screen Pressure Warning Interface



Touch Screen Setting Interface



Cleaning Time Modification and Setting Interface

Click the above interface to modify the corresponding time according to the relevant process flow.