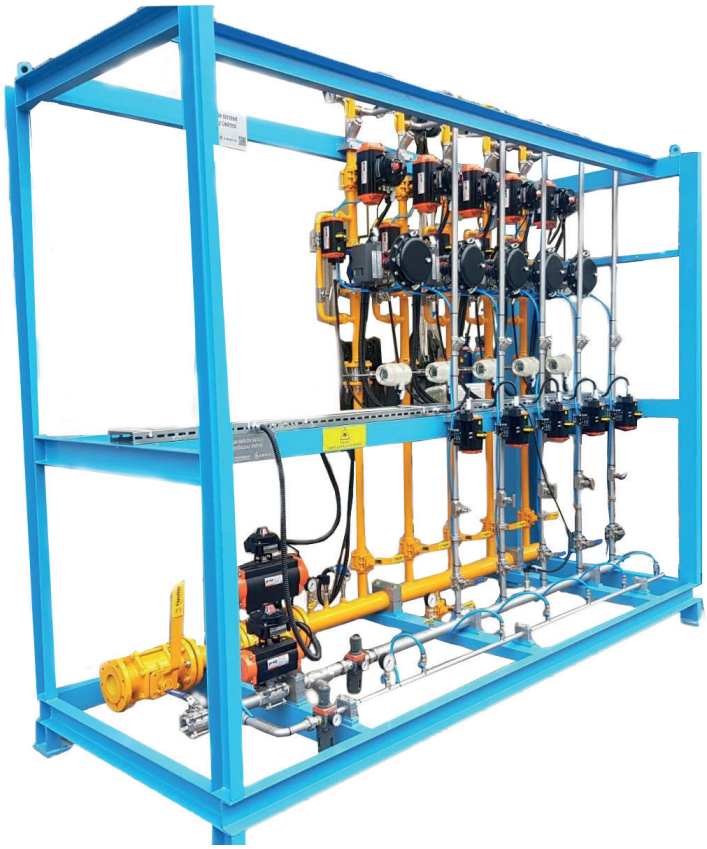
BCSMÜHENDİSLİK

EAF JET BURNER VALVE UNIT

User Guide

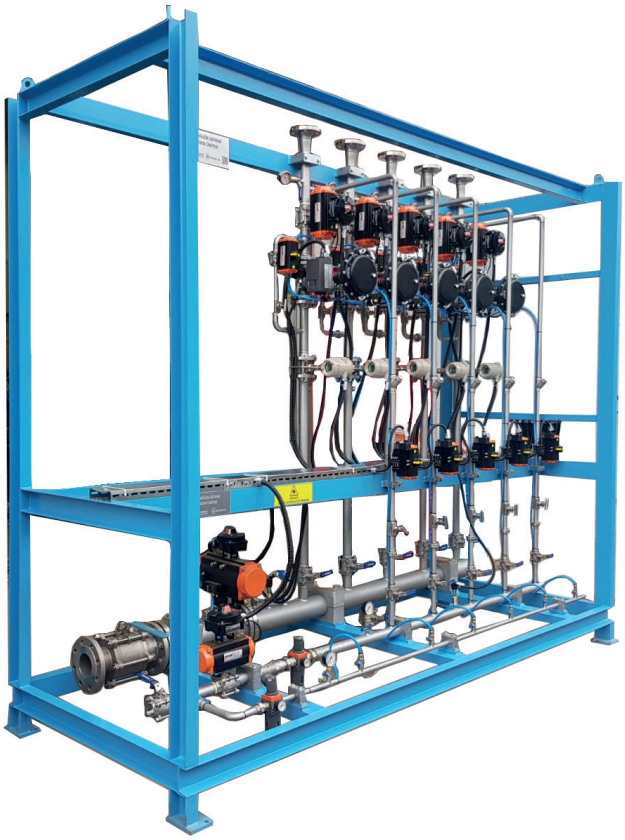
NATURAL GAS VALVE UNIT



- Natural gas inlets the system with a pressure of 4 bar and a flow rate of 1600 Nm3/h.
- Nitrogen inlets the system with a pressure of 6 bar and a flow rate of 520 Nm3/h.
- There are 4 lines in our valve stand.
- The ball valve is opened and nitrogen is allowed to enter the valve stand and it is checked whether it is at the desired pressure with the help of a manometer.
- Then, the filtering process is done and the pneumatic valves are opened, allowing air passage to the system.
- 6 bar nitrogen passage is provided to the instruments.
- With the help of a second regulator, the pressure of the nitrogen before it is divided into the lines is reduced to 2 bar and used in the purging process.

- The ball valve is opened in the same way in the natural gas line and the gas is transferred to the valve stand.
- The pressure value is read from the manometer.
- Then, these values, which are read with the help of pressure and temperature transmitter, are transferred to digital display.
- Here, the system is divided into four and a flow rate of 400 Nm3/h passes through each line.
- There are main breaker, flow meter, proportional valve, solenoid valve, check valve, pressure transmitter and manometer on the lines.
- At the same time, there is a line of the same diameter that bypasses the proportional valve and the pneumatic valve.
- If desired, this line can be used in pilot mode.
- Desired flow rate is adjusted with the help of proportional valve.
- Proportional valves operate 4-20 mA.
- Flow controls are also observed with the help of flow meters.
- On-off switch information of all other solenoid valves can be used.
- When pressures start to drop, the line is dirty or clogged.
- The clogged line is cleared by purging from the nitrogen line.
- All 4 lines work in this way.

OXYGEN VALVE UNIT



- Oxygen inlets the system with a pressure of 10-14 bar and a flow rate of 6400 Nm3/h.
- Nitrogen inlets the system with a pressure of 6 bar and a flow rate of 520 Nm3/h.
- There are 4 lines in our valve stand.
- The ball valve is opened and nitrogen is allowed to enter the valve stand and it is checked whether it is at the desired pressure with the help of a manometer.
- Then, the filtering process is done and the pneumatic valves are opened, allowing air passage to the system.
- 6 bar nitrogen passage is provided to the instruments.
- With the help of a second regulator, the pressure of the nitrogen before it is divided into the lines is reduced to 2 bar and used in the purging process.

- The ball valve is opened in the same way in the oxygen line and the gas is transferred to the valve stand.
- The pressure value is read from the manometer.
- Then, these values, which are read with the help of pressure and temperature transmitter, are transferred to digital display.
- Here, the system is divided into four and a flow rate of 1600 Nm3/h passes through each line.
- There are main breaker, flow meter, proportional valve, solenoid valve, check valve, pressure transmitter and manometer on the lines.
- At the same time, there is a line of the same diameter that bypasses the proportional valve and the pneumatic valve.
- If desired, this line can be used in pilot mode.
- Desired flow rate is adjusted with the help of proportional valve.
- Proportional valves operate 4-20 mA.
- Flow controls are also observed with the help of flow meters.
- On-off switch information of all other solenoid valves can be used.
- When pressures start to drop, the line is dirty or clogged.
- The clogged line is cleared by purging from the nitrogen line.
- All 4 lines work in this way.

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YOUR SOLUTION PARTNER IN COMBUSTION SYSTEMS

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