KASON P35 Porosity Testing Machine

(Picture Only For Reference)

1. Application and Features

Used for product simulated hydraulic environment testing.

It uses compressed air as the power source and a gas-liquid booster pump as the pressure source. The input water pressure is 80 times proportional to the driving air source pressure.

By adjusting the driving air source pressure, the corresponding boosted water pressure can be obtained. When the driving air source pressure is balanced with the boosted liquid pressure, the booster pump stops charging and the input water pressure stabilizes at the preset pressure.

Therefore, it has the characteristics of explosion-proof, adjustable output pressure, small size, light weight, simple operation, reliable performance and wide range of use.

2. Standard

GBT 1001.1-2003 "Insulators for overhead lines with nominal voltages above 1000V Part 1 Porcelain or glass insulator components for AC systems—Definitions, test methods and criteria"

3. Specification

Pressurized medium	water, alcohol
Power source	0.4-0.8Mpa clean compressed air
Output pressure calculation formula	80 times driving air pressure
Maximum test pressure	35MPa
Maximum flow	2.4L/min
Maximum air consumption	1.2M3/min@6.5bar
Compressed air interface	Φ12 quick-plug connector
Liquid high pressure outlet	NP1/4 internal thread
Hyperbaric chamber size	inner diameter 200mm, height 300mm
Holding time requirement	6 hours

4. System Function and Features

1. The booster unit is installed independently, and the connection is safe and reliable. All instruments that need to be observed and operated are centrally installed on the panel. The operator can monitor the operating status of the equipment through external observation, enabling unattended work.
2. The system itself has a built-in high-pressure one-way valve; ensuring the safe and reliable operation of each boosting unit without affecting each other;
3. By adjusting the compressed air pressure, the output hydraulic pressure can be continuously adjusted within the pressure output range;
4. Set the upper and lower limits of supercharging through the pressure controller;
5. Low noise, small equipment size, low installation cost and low maintenance cost.

5. Configuration

No.	Items	Qty.	Spec.
1	Gas-liquid booster pump	1set	G80 80：1
2	Hand valve	1pc	3V210
3	Three-position four-way directional valve	1pc	3/8
4	Filtration and pressure regulation	1pc	UFR04
5	High pressure needle valve	1pc	10NV1M1
6	Pressure Transmitters	1set	60MPa
7	Pressure gauge	1pc	Y-60 1.6MPa
8	Pressure gauge	1pc	Y-100 60MPa

9	Pressure controller	1set	WP803
10	Stainless steel water tank	1set	25L
11	Oil cylinder	1set	
12	Micro hydraulic station	1set	0．75KW
13	Hyperbaric chamber	1set	Inner Dia. 200mm,Height 300mm
14	Chassis	1set	
15	Pipes and joints	1set	

6.Packing List

Type	No.	Item	Qty.	Note
Equipment Part	1	Host	1set	Including mobile trolley, equipped with φ12 air pipe 5 meters
	2	Console	1set	Installed on mobile trolley
	3	Water pump	1set	Installed on mobile trolley
	4	Micro pumping station	1set	Installed on mobile trolley
	5	Metal colander	1pc	Placed in a high-pressure chamber
	6	Spare parts	1set	O-rings, etc.
	7	Magenta	5 bottles	25g/bottle
	8	Alcohol	15L	Already filled in the high pressure warehouse and console
	9	Air pump (optional)	1set	Comes with 5m φ12 air pipe
Documents	1	User manual	1pc	
	2	Certificate of Quality	1pc	
	3	Packing List	1pc	

FOCUS IN MATERIAL TEST

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