



Ultrahigh Pressure Hydrogen Gas Pressurization System



Detail

Ultrahigh Pressure Hydrogen Gas Pressurization System (Model:TPU-SW002-4)

I. Applications

TPU-SW002-4 Telide ultrahigh pressure hydrogen gas pressurization system, is a new ultrahigh pressure pressure testing equipment developed by us independently. It's a system designed as customer's real requirements with multistage automatic pressurization, static pressure test, blasting test, data acquisition and security protection functions.

II. Main features

- 1.Composed of 1 stage pressurization system, 2 stages mechanical pressurization system, high pressure valve system, and data acquisition and control system.
- 2.Components include Swiss brand NOVA Swiss hydrogen special type components:high pressure diaphragm compressor, air-operated needle valves, manual needle valves.

3. 2 stages pressurization system include 100MPa, 300MPa hydrogen special type explosion proof diaphragm compressor. Low pressure and large flow can choose 100MPa diaphragm compressor to pressurize quickly. For above 100 MPa ultrahigh pressure, 300MPa diaphragm compressor can be used to pressurize.

4. 2 stages pressurization system is designed with manual unloading function. When software freezes or abnormal circuit occurs and can't unloading through software, unloading high pressure test system by manual mode in the control panel.

5. Data acquisition and control system has emergency stop button, alarm tricolour light and Telide ultrahigh pressure pressurization system software. The software can achieve automatic multistage pressurization, static test, blasting test, data acquisition and real-time fault monitoring alarm functions .

6. 1 stage pressurization system, 2 stages mechanical pressurization system and high pressure valve system are all designed with fault monitoring alarm, diaphragm compressor overpressure protection rupture disc to protect equipment safe use.

III. Technical parameters

1. Precharge gas inlet medium: 100% nitrogen gas, hydrogen gas and helium gas

2. Max. output pressure: 300MPa

3. Precharge gas pressure range: 2-20MPa

4. Dimensions and weight:

1 stage pressurization system: L1000*W1050*H1340 (mm), weight: 378Kg

2 stages pressurization system: L1500*W1050*H1340 (mm), weight: 580Kg

High pressure valve system: L1200*W707*H1270 (mm), weight: 225Kg

Data acquisition and control system: L1200*W1150*H1400 (mm), weight: 217Kg

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