

CDZ Nitrogen filling vehicle

Brief Introduction

CDZ series nitrogen charging cart is the professional equipment applies to filling nitrogen or increasing the nitrogen pressure of hydraulics-bladder accumulator, piston accumulator, hydraulic diaphragm accumulators and other high-pressure container. Filling the nitrogen to the accumulator with nitrogen bottle directly, its highest nitrogen pressure is 13.5MPa. If the precharge pressure of the accumulator is over 13.5MPa, the nitrogen filling cart can achieve. The maximum pressure can up to 42MPa.

Product selection

QXF	-	25	-	Y1
Code		Max charging pressure		Charging Cylinder Reversing Type
CDZ:Nitrogen charging cart		25、35、42MPa		Y1:Hydraulic pilot type

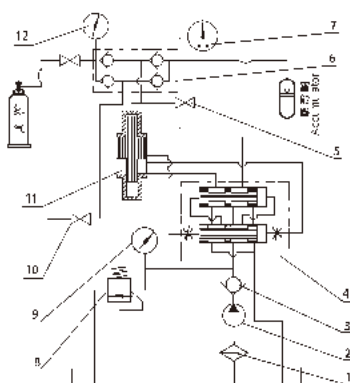


Working Principle

This type of nitrogen filling cart is composed by the three parts of the hydraulic system, pneumatic and circuit. Pilot reversing valve of the hydraulic system controls two-way forcing valve doing the reciprocating motion continuously, inhaled nitrogen from nitrogen bottles to the gas chamber, and the other gas chamber would press the nitrogen which have been inhaled through a valve into the storage device or pressure vessel. When accumulator pressure reaches the preset tone value of nitrogen, the hydraulic system stops to work when the pressure gauge for electric connection gives the signal. The working schematic diagram showed as below.

Specifications

Model Code	Nitrogen working pressure (MPa)	Max. output pressure (MPa)	Oil pump		Pressure booster	
			Pressure (MPa)	Flow rate (L/min)	Pressure ratio	No. of pressure boost cycles
CDZ-25Y1	3.0-13.5	25	7	9	1:6	8
CDZ-35Y1		35			1:6	8
CDZ-42Y1		42	8	14-16	1:7	7



1. Fluid filter
2. Propeller pump
3. Check valve
4. Pilot selector valve
5. Upper exhaust valve
6. Gas valve device
7. Electrical terminal pressure gauge
8. Overflow valve
9. Fluid pressure gauge
10. Lower exhaust valve
11. Bi-direction supercharger
12. Inflating pressure gauge

Note:

1. Hydrogen charging vehicle dimensions (L800×W600×H1500).
2. Supplied with the hydrogen vehicle; CQJ type inflating device (pipe length 3000mm) one set; Rubber pipe to the hydrogen source (L1500mm) one pipe.

Ordering and Using Note

1. Only use nitrogen, oxygen or other flammable, corrosive gas is prohibited to use.
2. It's no need to adjust the filling pressure, for the pressure has been set according to the requirement of the user's. Just connect the power you can use the product. If it's need to change the nitrogen pressure, please re-adjustment the electrical contacts of the electrical contact pressure gauge.
3. When ordering, indicate not only complete codes of the model, but also the actual working pressure.