

Cobey Energy, located in Buffalo, NY is a premier equipment packager specializing in gas compression. Cobey Energy's ASME storage modules are built to the highest standards and are designed to meet or exceed NFPA 52 & 30A, SAE J1616 and ASME Section VIII, Div. 2



CE-PSO



CE-PS

The CE-PSO and CE-PS CNG combination **P**riority fill / ASME **S**torage and **O**ffloading skid allow for quicker more cost efficient site installation of your new CNG Cascade storage and dispensing requirements. Cobey Energy engineered skid base plate supports up to three ASME spheres, priority fill panel and the option to include a fast fill dispenser. Gas supply to the skid includes one inlet connection for gas from compressor module(s). Gas will be distributed by the priority fill panel to either ASME storage spheres or the fast fill dispenser as required during fueling operations. All components are pre-tubed as an assembly using high pressure stainless steel tubing; all tubing runs are leak tested and confirmed gas tight prior to shipping to the end user's sight.

	CE-PSO	CE-PS
ASME Storage	*Up to 3 Spheres; Skid Mounted	*Up to 3 Spheres; Skid Mounted
Priority Fill Panel	Skid Mounted	Skid Mounted
Fast Fill Dispenser	**Skid Mounted	**Sold separately to be mounted at remote location
Cascade Capacity @ 4,500 psig (scf)	34,104	34,104
Equivalent GGE capacity (gal.)	273	273
Water Volume (ft ³)	100.8	100.8
Cascade Envelope Size (in)	20' x 4'7" x 5'7"	14' 8" x 4'7" x 5'7"
Working Pressure (psig)	5,000	5,000
Design Pressure (psig)	5,500	5,500
Weight (lbs)	~35,000	~34,000

*Available in 1,2 or 3 sphere configurations

** Fast Fill dispenser configurations vary as per end user requirements

Typical CE-PSO or CE-PS skid include the following Priority Fill Panel, ASME storage vessel(s) and Fast Fill Dispenser factory assembled, tubed and tested as described below:

Priority fill system

- ❖ Mounted within a NEMA 4 enclosure
- ❖ Filling Priority: Direct fill, Bank 3, Bank 2 & Bank 1
- ❖ Liquid filled pressure gauges for each storage bank

CE-VRA – CNG Sphere Storage Vessel Assembly

- ❖ Designed, manufactured and National Board registered according to ASME Code Section VIII, Div. 2 specifications
- ❖ Storage Capacity: 34,104 SCF @ 4,500 psi, equivalent to 273 GGE
- ❖ Design Pressure: 5500 psig
- ❖ Each vessel will be furnished with:
 - One (1) ¾" NPT, ¾" relief valve with isolation valve
 - One (1) ¾" NPT, ¾" Inlet/Outlet with isolation valve
 - One (1) 1" NPT, 1" Inlet/Outlet, plugged
 - One (1) ½" NPT, ½" drain with needle valve
- ❖ Each sphere is mounted on a skirt with a base plate. Base plate includes mounting holes for field installation
- ❖ Sandblasted, with white epoxy paint system applied
- ❖ Marked "FOR CNG ONLY"

CNG Fast Fill Dispenser

- ❖ 3,000 & 3,600 psig hose configurations
- ❖ Maximum working pressure: 5,000 psi
- ❖ Maximum Meter Flow Rate: 1,500 cfm
- ❖ Electrical Classification: Class 1, Group D, Division I Hazardous Locations
- ❖ Single or Dual hose configuration with CT1000 or CT5000 type nozzles, including hose breakaway.

Standard Features:

- ❖ Easy-to-Read Full Control Alphanumeric Display, backlit board for sale, volume and price per unit display
- ❖ Micro Motion[®] CNG50 meters
- ❖ Three-Bank Solenoid Sequencing system for each hose.
- ❖ Communication to card reader
- ❖ Utilizes ½" spring loaded full flow ball control valves, fail closed if loss of power to dispenser.
- ❖ Dispenser control system with temperature compensation, to control filling pressure & sequencing valves. Including heat of compression compensation.

Cobey Energy supplies and manufactures a full complement of CNG filling station components, including:

- ❖ Natural Gas desiccant dryers
 - Non-regenerative
 - Manual regenerative
 - Auto regenerative
- ❖ CNG compressor modules
 - 20-3000+ scfm
- ❖ CNG fuel dispensers
 - Fast fill
 - Time fill posts