

Total Solution

For Green Energy

ENK[®]



WHY ENK PRODUCT?

ENK has the world leading technology and manufacturing facilities to produce mass quantities of high pressure cylinders with ordinary or highly durable super-light weight for special use of the alternative energy, fire fighting, medical service, scuba system, aircraft and aerospace system as well as industrial gas by not only processing of seamless pipe but also the most innovated processing of Cold and Hot Deep Drawing & Ironing from high tensile strength steel with or without reinforced fiber glass.

HOW TO ASSURE OUR QUALITY!



ENK Global Network



Company Management System Approval

ENK Management System has been certified according to ISO9001, ISO14001, OHSAS18001, IATF 16949:2016.

Appropriate approvals for manufactured products have been acquired from authorized inspection agencies, certificates according to US-DOT, ISO, ANSI/NGV2, ECE-R-110 and the other special authorities.

Design Criteria

Cylinders are designed to satisfy international codes & standards including ISO, DOT, DNV, TPED, GL, RINA, NK, CCS, KGS, SELO, ADR, RID, TPED, TC, KHK, UN-ISO etc.

PRODUCT SPECIFICATION

COMPRESSED NATURAL GAS CYLINDER

Type-1 Cylinder

CNG Type-1 cylinder for Natural Gas Vehicle is made from seamless pipe or high tensile strength steel with reasonable price and mainly used for long term filling on vehicle to contain CNG fuel.

	Model	Max. Filling Pressure		Out Diameter		Length	
	liter	psig	bar	inch	mm	inch	mm
1	50L	2900	200	9.1	232	57.6	1465
2	60L	2900	200	12.7	323	38.1	970
3	65L	2900	200	14	356	35.4	900
4	70L	2900	200	14	356	36.4	925
5	90L	2900	200	14	356	47.2	1200
6	90L	2900	200	16	406	36	915
7	100L	2900	200	14	356	51.2	1300
8	100L	2900	200	16	406	39.3	1000
9	130L	2900	200	16	406	51.1	1300
10	145L	2900	200	14	356	69.3	1760

• Please contact sales team for further information



Super lighter Type-1 Cylinder

The weight to volume ratio of super-light Type-1 cylinder is 25% much lighter than ordinary Type-1 cylinder. Upgraded steel strength with 1100MPa up to 17% makes super-light Type-1 cylinder lighter and provides better quality and reliability than typical Type-2 cylinder.



Type-2 Composite Cylinder

CNG cylinder with lighter weight & energy economy provides consistence in appearance and in performance by hoop-wrapped steel liner with glass fiber.

Type-3 Composite Cylinder

Lighter & stronger Type-3 cylinder consists of the composite of thin wall aluminum or steel liner with fully wrapped high strength carbon fiber.

- ENK type-3 cylinder design is optimized for passenger car
- Much lighter than other type cylinder in the market



CYLINDER FOR HIGH PURITY GAS

Stainless Steel Cylinder

Seamless stainless steel DDI cylinder for ultra high purity gas (ex. WF6, HF, etc.)
This cylinder which mainly used in semiconductor industry is excellent for corrosion protection.

	Model	Max. Filling Pressure		Out Diameter		Length		Approval
		psig	bar	inch	mm	inch	mm	
1	40.2	290	20	9.134	232	47.24	1200	KGS
2	40.2	290	20	9.134	232	47.24	1200	SELO

ENK provides internal polished pipes with internal roughness grade 3S, 25S, etc. depending on the customers' requirements for high purity gases such as WF6, HF.
ENK also maintains the moisture level below 1ppm or 3ppm by heated vacuum process so that the gas quality can be kept at high purity.

HIGH PRESSURE CYLINDER FOR INDUSTRIAL APPLICATIONS & FIRE FIGHTING

Specification

Outer Diameter : ø133~280mm
Volume : 3.6~95Liter
Pressure : 139~300Bar



INDUSTRIAL GAS CYLINDER

	Model		DOT/TC		Out Diameter	
	liter	ft3	psig	bar	inch	mm
1	3.6L	20cf	2015	139	5.2	133
2	8.2L	40cf	2015	139	7.0	178
3	10.82L	55cf	2015	139	7.0	178
4	15.74L	80cf	2015	139	7.0	178
5	21.6L	125cf	2265	156	7.0	178
6	27L	150cf	2015	139	7.4	188
7	40.2L	-	2265	156	9.1	232
8	43.3L	250cf	2265	156	9.1	232
9	46.7L	-	2175	150	7.1	232
10	49L	300cf	2400	166	9.1	232
11	68L	-	2130	147	10.5	267.4
12	82.5L	-	2175	150	10.5	267.4

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PLANT ENGINEERING for Cylinder Manufacturing Factory

ENK has the proven record for several plant engineering turn-key projects focusing on the solution of Gas Cylinder Manufacturing Facilities and Test Facilities for Deep Drawing & Ironing as well as Seamless pipe and Billet process. ENK also provides the engineering techniques including facilities for cylinder retesting center, CNG mother/daughter station, tube skid assembly shop and conversion kit over 30 years experience and know-how. ENK can provide not only flexible customized engineering techniques and solution to our customers but also joint-operation for plants or facilities after their completion



NK GROUP PROVIDES TOTAL SOLUTION FOR GREEN ENERGY



ENK

Busan, Korea

- CNG Fuel Tanks
- High pressure gas cylinders
- Plant Engineering
- CNG Mother / Daughter Station

NKSH

Shanghai, China

- Jumbo Tube
- Jumbo Tube Retest Center
- Stainless steel cylinders for high purity gas

THE SAFETY

Busan, Korea

- Special Gas & Conversion Kit
- Service Engineering
- Sales Spare Parts
- Articles for ship and Safety & Rescue equipment

NK

Busan, Korea

- Equipment & Facilities for Plant
- CNG & Industrial cylinders
- Jumbo tube / Tube skids
- Cylinder Retest Center

NKTECH

Osan & Busan, Korea

- Jumbo Tube / Tube Skid
- Ton Tank
- ASME Storage Cylinders
- Fire Fighting Systems
- Ballast Water Treatment System

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