

# DarkSide high pressure cylinder specs (the 4500 psi yellow cylinders)

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## *Henning Back*

Markings around neck of cylinders

- HC4500
- DOT-SP 9421-4500

Dimensions:

- Height ~ 51" to the neck
- Diameter ~ 29.5" --- Calculated OD 9.39"



From the markings on the cylinders, the measured dimensions of the cylinders, and the reference below I have determined that these cylinders are from Taylor-Wharton ([www.taylorwharton.com/](http://www.taylorwharton.com/)) with a volume of 45.1 liters.



**Taylor-Wharton**

Ligh**TW**rights



**HC-4500**



**HC-6000**



HC-Series Cylinders are advanced, computer-designed steel cylinders that lead the global gas industry in capacity-to-weight ratios. These high strength, light weight alloy cylinders feature higher gas capacities that allow for longer service between filling cycles—delivering reduced costs for handling and maintenance. Built to exacting standards for years of durable service, HC-Series Cylinders are 100% ultrasonically tested and feature leak-before-break pressure vessel technology.



**Taylor-Wharton**



## HC-Series High Pressure Cylinders

MODEL	DOT SPECIFICATION	TAPPING	NOMINAL DIMENSIONS				WATER	SERVICE	TEST
			I.D.	O.D.	LENGTH	WEIGHT	VOLUME	PRESSURE	PRESSURE
			(INCHES)	(INCHES)	(INCHES)	(LBS.)	(CU.IN.)	(PSI)	(PSI)
			(mm)	(mm)	(mm)	(kg)	(liters)	(bar)	(bar)
HC-4500	E 9421-4500	( ** )	8.75 222	9.31 236	51.00 1295	144 65.3	2750 45.1	4500 310.3	6750 465.4
HC-6000	E 9909-6000	3/4-14 NGT	8.50 216	9.28 236	51.00 1295	188 85.3	2640 43.3	6000 413.7	9000 620.5

\*\*\*NOTE: HC-4500 Cylinders are furnished with 3/4-14 NGT "24 THREAD OVERSIZE" Inlet Thread unless otherwise specified.

HC-Series Cylinders are furnished complete with neckrings, caps, applicable DOT markings, painted one standard color and certified by an independent inspection agency.

[Neckrings and Caps are configured 3-1/2" diameter, 11 threads per inch, unless otherwise specified.]

All HC-Series Cylinders are 100% Ultrasonically Tested.

UNDER NO CIRCUMSTANCES ARE THESE CYLINDERS TO BE FILLED TO A PRESSURE EXCEEDING THE MARKED SERVICE PRESSURE AT 70°F.

GAS SERVICE	CGA RECOMMENDED VALVE OUTLET		APPROXIMATE CAPACITY (CUBIC FEET)	
	CONNECTION NUMBER		AT SERVICE PRESSURE AND 70 DEGREES F.	
	HC-4500	HC-6000	HC-4500	HC-6000
AIR	347	702	444	509
ARGON	680	677	500	581
HELIUM	680	677	434	525
NITROGEN	680	677	431	494
OXYGEN	701	N/A	500	N/A

NOTE: Valve Outlet Connections are based on CGA Pamphlet V-1 (Dec-1994) & Addenda-Errata (Jan-1996).

NOTE: Gas Capacities are based on NBS Technical Note 1079 issued June 1985.



**Taylor-Wharton**

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