

LIQUID CYLINDER HOSE

ULTRAFLEX

The industry's most flexible and durable hose for use with cryogenic liquid cylinders

Chart's liquid cylinder hose combines an ultra flexible design with high cycle life and extreme durability. The liquid cylinder hose construction starts with a special close pitch corrugated stainless steel. Corrugations are a unique disymmetrical omega configuration, as opposed to the common U-shape corrugations that standard hoses have. The result is a hose unparalleled in ease of bending and cycle-life. The liquid cylinder hose carries an ISO 10380 rating of a minimum of 50,000 bending cycles. A low-profile, high coverage stainless steel braid provides high working pressures.

Streamlined, highly flexible stainless steel armor casing covers the hose and provides kink resistance and protection for the braid. Special smooth stainless steel reducing collars are crimped over the armor and become a transition piece to the end fittings. Welded-on ends are machined from stainless steel bar stock as opposed to the thin wall flared tubing that most liquid cylinder hoses are

constructed with. Flared ends have a smooth RA finish for leak-free performance. Stainless steel nuts and flares are offered in either CGA295 (1/2") or CGA440 (5/8") style.

The liquid cylinder hose is unaffected by cryogenic temperatures, and remains flexible in transfer applications. This hose carries a working pressure of 1160 psig – far beyond the operating pressures of a standard liquid cylinder. Each hose assembly is individually hydrotested to 1.5 times the MAWP and leak tested. The stainless steel collar is stamped with the manufacturer, pressure rating, and date.



Materials of Construction

Hose & Braid:	T321 Stainless Steel
Ends:	T304L Stainless Steel Machined Flares and Nuts
Armor:	T304L Stainless Steel



Hose with armor casing coils for easy storage.

Product Highlights:

- Unique corrugated construction allows for better flexibility and long service life
- Machined ends for tighter seal and durability
- Pressure rating stamped on hose collar for safety compliance
- Cleaned for oxygen service per CGA G-4.1
- Test certificates available on request

Hose Size (In)	Service	P/N	O.D. w/ armor (In)	MAWP (psig)	Min. Static Bend Radius w/ armor (In)	Wgt. Per Ft. w/ armor (Lbs)	End Connection (O.D. x 45° FL)	CGA	Length (ft)
1/2	LIN/LAR LOX	14870322 15083224	0.94	1,160	2.75	0.65	1/2 5/8	295 440	6 6