

# CONSTANT MOMENTUM CLAMPS™



## Why pressure-compensating clamps?

As nearly all rubber hoses compress after installation of a clamp - cold flow – the torque loss can exceed 80% of initial installation torque. Nearly all metal connections expand and contract as systems heat and cool. Standard worm gear, T-bolt and other clamps do not compensate for these thermal cycling without retightening or loosening of clamps.

## CONSTANT MOMENTUM CLAMPS™

The unique spring action band of CONSTANT MOMENTUM clamps™ **stores the torque** at installation and compensates for thermal cycling effects and compression set of rubber hoses.

### Advantages:

- Cold leakage is solved
- Rupture problems are overcome
- Compression set of hoses is compensated for

## Why CONSTANT MOMENTUM CLAMPS™?

### Superior sealing pressure

CONSTANT MOMENTUM CLAMPS™ **outperform** both

✘ Spring loaded T-bolt clamps



and

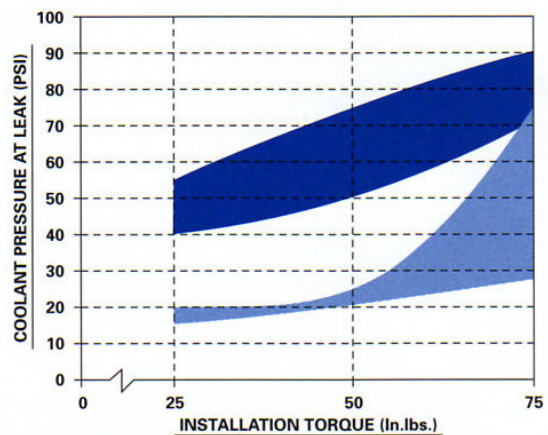
✘ Belleville spring type clamps



Sealing pressure is higher while required installation torque is lower as the graph shows.

### CONSTANT MOMENTUM clamps vs competition

PSI AT LEAK vs. INSTALLATION TORQUE, THERMAL CYCLED  
TESTED AT 30°(F)



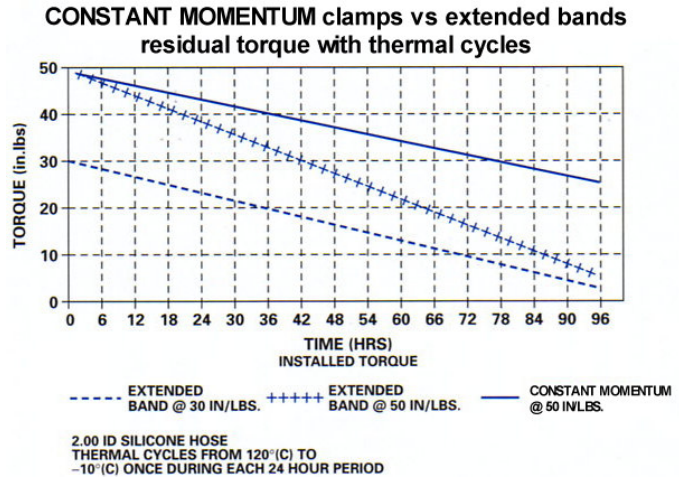
■ CONSTANT MOMENTUM    ■ competition

2.00 ID SILICONE HOSE  
THERMAL CYCLED FROM 240°(F) TO 30°(F) DURING A 24 HOUR PERIOD  
LEAK TESTED WITH 50-50 MIXTURE OF ETHYLENE GLYCOL AND WATER

## Why CONSTANT MOMENTUM CLAMPS™?

### ◆ 1/2" Bands

CONSTANT MOMENTUM CLAMP™ are equipped with 1/2" bands to generate a **higher sealing pressure** and **higher residual torque** than 9/16" (extended) bands.



### ◆ Welded Housings

CONSTANT MOMENTUM CLAMPS™ have **welded housings**. The permanent joining of house and band translates the installation torque directly into sealing power. No torque is consumed as the housing doesn't seat itself during tightening. Welded housings mean **no tabs or interlocking pieces** as in mechanically assembled clamps that may invite crevice corrosion. The spot-welds will not lead to corrosion



### ◆ Double Bead Bands

CONSTANT MOMENTUM CLAMP™ **double bead** bands concentrate sealing pressure, increasing performance compared to smooth liners. Between the beads an elasticity-reserve is created that has the same effect as an O-ring.



### ◆ Flanged Edges

CONSTANT MOMENTUM CLAMP™ **flanged edge** bands protect soft hose compounds.

### ◆ Stainless Steel

CONSTANT MOMENTUM CLAMP™ **band, housing and shield** are made of **stainless steel**.



*That's 6 reasons for choosing CONSTANT MOMENTUM CLAMPS™*

### Require more information or a quote?

For available dimensions and pricing please contact us by phone, fax or email.

LIKON BV, P.O BOX 23, NL-5410 AA ZEELAND (N.BR.), NETHERLANDS

TEL.: +31-(0)486 45 00 50 | FAX: +31-(0)486 45 00 45

EML: SALES@LIKON.INFO

URL: WWW.LIKON.INFO