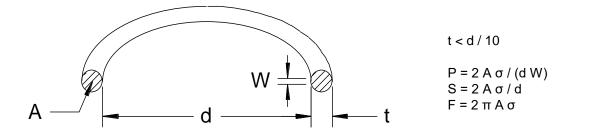
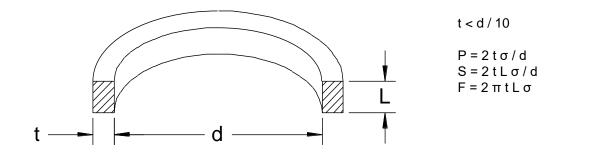
INTRINSIC

UniLok[®] Clamping Force Calculation

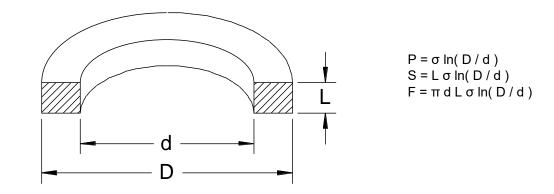
Thin-Walled Ring, Non-Rectangular Cross-Section



Thin-Walled Ring, Rectangular Cross-Section



Thick-Walled Ring, Rectangular Cross-Section



- P = radial contact pressure between ring & substrate (lb/sq in or MPa)
- S = radial force per length of circumference (lb/in or N/m)
- F = total radial force as tabulated on ring drawings (lb or N)
- W = width of contact between ring & substrate
- σ = ring recovery stress, 30 kpsi (200 Mpa) for rough calculation. Stress is a function of temperature, materials & geometry. Consult Intrinsic Devices for application specific values.

Intrinsic Devices, Inc.

2353 Third Street San Francisco, CA 94107-3108 *tel:* 415 252-5902 *fax:* 415 252-1624

intrinsicdevices.com

CAGE Code 08CE6

 $\mathsf{UniLok} \circledast$ is a registered trademark of Intrinsic Devices, Inc.

Product Document

Clamping Force Calculation

Drawing ID	Date	Rev.	Page
PD 009	8/25/98	D	1 of 1