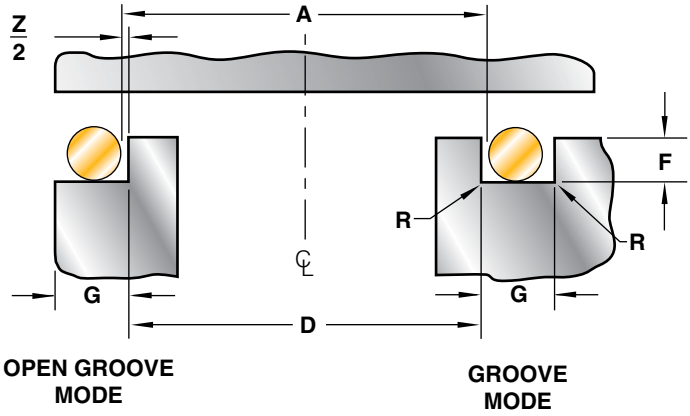
EWE Metal Wire Ring External Pressure Face Seal

Applications:

- Low cost, high load 'crush' sealing.
- Contiguous sealing surface permits use within triple-surface, chamfered joints and non-rectangular section grooves.
- Best with rigid mating surfaces with minimum relative movement.
- Small process valves.
- Fits standard metal O-ring grooves.

Features:

- High pressure rating.
- Many other custom cross sections are available. Contact your local representative.



Cavity Dimensions				
	D	F	G	R
Nominal Cross Section	I.D. Range Tolerance h10	Depth Range	Minimum Width	Maximum Radius
1/32	0.180 – 1.000	0.025 – 0.027	0.055	0.010
1/16	0.375 – 8.000	0.045 – 0.050	0.090	0.015
3/32	0.800 – 16.000	0.074 – 0.079	0.150	0.020
1/8	1.250 – 24.000	0.100 – 0.105	0.160	0.030

All dimensions are in inches.
The tolerance reference table can be found on page E-92.

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Advanced Products Business Unit • 33 Defco Park Road, North Haven, CT 06473
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Part Numbering:

Refer to Section A, page A-9 for part numbering convention. The seal size is specified in the part number as follows:

EWE - 000000 - 00 - 00 - 0

Seal I.D. (dimension A) to three decimal places. (Example: A 3.000 inch seal is specified as 003000)

Metal Seal Cross Section Code

Material (Section D)

Temper (Section D)

Seal and Cavity Sizing:

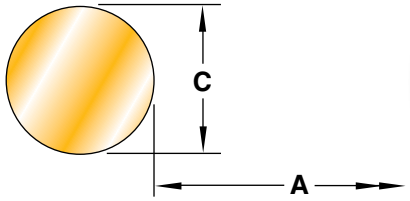
Seal free height is based on cavity diameter and depth alone. Seal diameter (dimension A) is derived below.

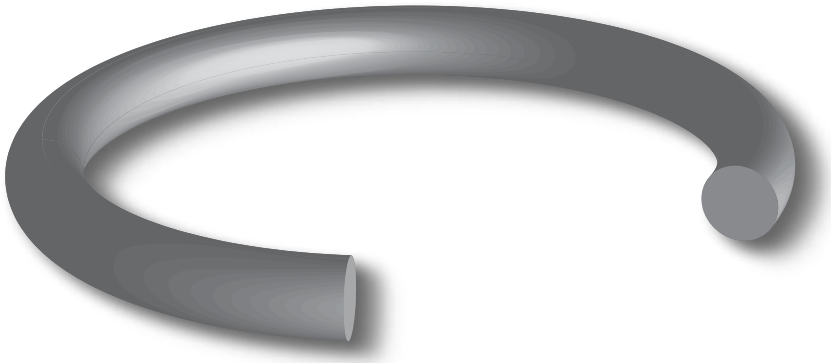
A = D + Z

(tolerance ± 0.005)

Where: D = Maximum cavity I.D.

Z = Diametral clearance between cavity and seal





Seal Dimensions				Performance		
	Z	C				
Nominal Cross Section	Diametral Clearance	Free Height	Cross Section Code	Seating Load (pounds per inch circumference)	Springback (inches)	Working Pressure Rating (psi)
1/32	0.008	0.035 $^{+0.003}_{-0.001}$	03	4200	0	20000
1/16	0.011	0.062 $^{+0.003}_{-0.001}$	05	6000	0.0005	20000
3/32	0.013	0.094 $^{+0.003}_{-0.001}$	06	6000	0.001	20000
1/8	0.017	0.125 $^{+0.003}_{-0.001}$	07	6000	0.002	20000

All dimensions are in inches.
Performance data is based on annealed 304 Stainless Steel. Seal performance is discussed in Section E.