

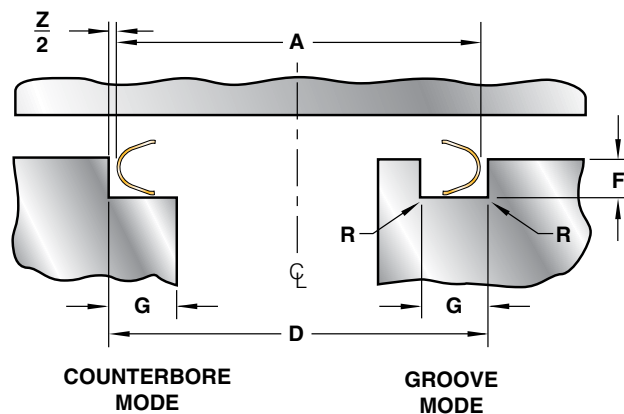
EUI Metal U-Ring Internal Pressure Face Seal

Applications:

- High temperature joints with significant movement.
- Up to 1600°F.
- Retrofittable in (3/32" cross section and larger) metal O-ring grooves for lower load and greater springback.

Features:

- Compliant low load seal, generally used unplated.
- Strongly pressure energized.
- Four standard sections and any diameter from 1.75" to 48".
- Radiused footprint area protects mating surfaces.
- Well supported heel and sides ensure highest pressure capability.
- Good all round performance, economically priced.



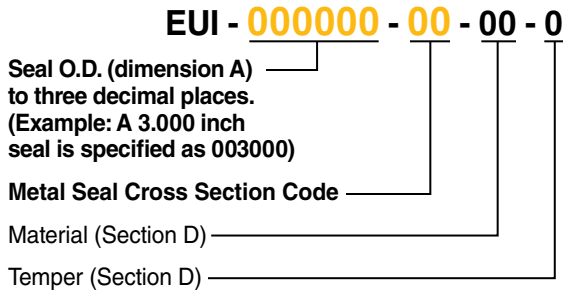
Cavity Dimensions

	D	F	G	R
Nominal Cross Section	O.D. Range Tolerance H10	Depth Range	Minimum Width	Maximum Radius
3/32	2.250 – 16.000	0.074 – 0.080	0.125	0.020
1/8	2.500 – 24.000	0.100 – 0.107	0.160	0.030
3/16	3.375 – 36.000	0.150 – 0.157	0.250	0.050
1/4	6.000 – 48.000	0.200 – 0.208	0.350	0.060

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

Part Numbering:

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



Seal and Cavity Sizing:

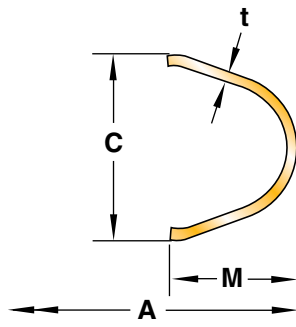
Seal free height is based on cavity diameter and depth alone.
Seal diameter (dimension A) is derived below.

$$A = D - Z$$

(tolerance h11, see page E-92)

Where: D = Minimum cavity O.D.

Z = Diametral clearance between cavity and seal



Section C
Metal Seal Size Selection

Seal Dimensions					
Nominal Cross Section	Z	C	t	M	Cross Section Code
	Diametral Clearance	Free Height	Material Thickness	Maximum Radial Width	
3/32	0.003	0.093 ± 0.004	0.010	0.098	07
1/8	0.005	0.125 ± 0.005	0.012	0.131	09
3/16	0.006	0.185 ± 0.005	0.015	0.198	13
1/4	0.008	0.247 ± 0.006	0.020	0.262	15

All dimensions are in inches.

Performance data is based on Alloy 718 material with -6 treatment. Seal performance is discussed in Section E.

*If working pressures exceed these ratings consult Parker for recommendations.

Performance		
Seating Load (pounds per inch circumference)	Springback (inches)	Working* Pressure Rating (psi)
45	0.010	12000
50	0.014	12000
50	0.020	8000
70	0.026	8000

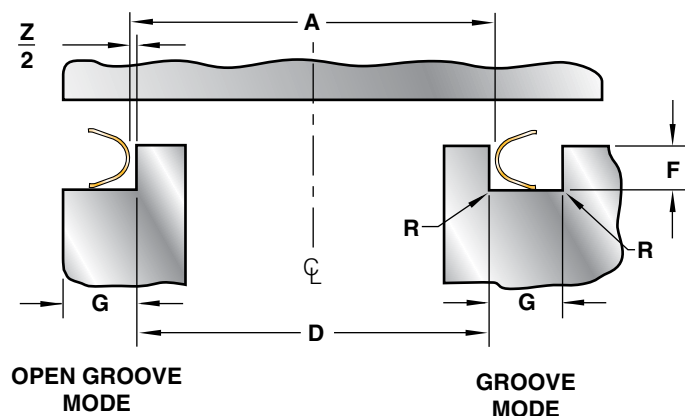
EUE Metal U-Ring External Pressure Face Seal

Applications:

- High temperature joints with significant movement.
- Up to 1600°F.
- Retrofittable in (3/32" cross section and larger) metal O-ring grooves for lower load and greater springback.

Features:

- Compliant low load seal, generally used unplated.
- Strongly pressure energized.
- Four standard sections and any diameter from 1.75" to 48".
- Radiused footprint area protects mating surfaces.
- Well supported heel and sides ensure highest pressure capability.
- Good all round performance, economically priced.



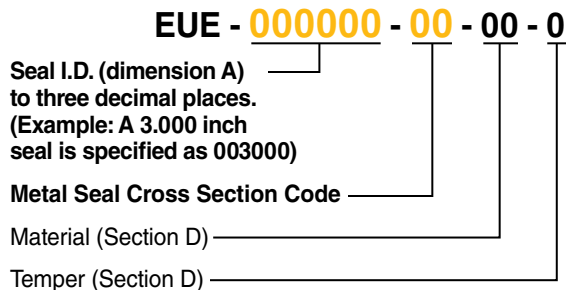
Cavity Dimensions

	D	F	G	R
Nominal Cross Section	I.D. Range Tolerance h10	Depth Range	Minimum Width	Maximum Radius
3/32	2.250 – 16.000	0.074 – 0.080	0.125	0.020
1/8	2.500 – 24.000	0.100 – 0.107	0.160	0.030
3/16	3.375 – 36.000	0.150 – 0.157	0.250	0.050
1/4	6.000 – 48.000	0.200 – 0.208	0.350	0.060

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

Part Numbering:

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

**Seal and Cavity Sizing:**

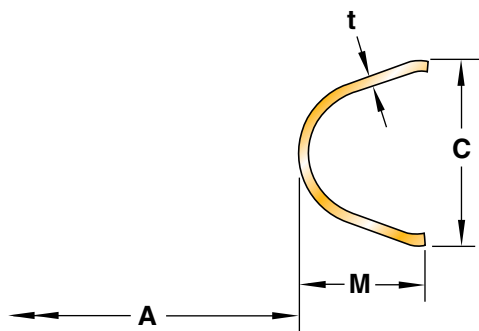
Seal free height is based on cavity diameter and depth alone.
Seal diameter (dimension A) is derived below.

$$A = D + Z$$

(tolerance H11, see page E-92)

Where: D = Maximum cavity I.D.

Z = Diametral clearance between cavity and seal



Seal Dimensions					
Nominal Cross Section	Z	C	t	M	Cross Section Code
	Diametral Clearance	Free Height	Material Thickness	Maximum Radial Width	
3/32	0.003	0.093 ± 0.004	0.010	0.098	07
1/8	0.005	0.125 ± 0.005	0.012	0.131	09
3/16	0.006	0.185 ± 0.005	0.015	0.198	13
1/4	0.008	0.247 ± 0.006	0.020	0.262	15

Performance		
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45	0.010	12000
50	0.014	12000
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70	0.026	8000

All dimensions are in inches.

Performance data is based on Alloy 718 material with -6 treatment. Seal performance is discussed in Section E.
If working pressures exceed these ratings consult Parker for recommendations.