

Practical “common sizes / groove” table for O-ring face seals

Key: W = recommended groove width (span across groove), E = gland depth (axial squeeze), % Squeeze = axial squeeze of the O-ring, G = recommended groove OD or related dimensional guidance (see source table). Always confirm exact gland tolerances with manufacturer for your material/pressure.

AS568 cross-section (in / mm)	Typical common dash codes (examples)	Typical face-seal gland width W (in)	Typical gland depth E (in)	Typical axial squeeze (%)
0.070 in \approx 1.78 mm	AS568 -004 \rightarrow -050 series (common small IDs)	W \approx 0.095 - 0.107 in (typical groove OD width values in Parker table context)	E \approx 0.010 - 0.023 in (face gland depth)	\sim 15 - 32%
0.103 in \approx 2.62 mm	AS568 -102 \rightarrow -178 etc.	W \approx 0.142 - 0.173 in	E \approx 0.020 in (varies by liquid/gas)	\sim 10 - 25%
0.139 in \approx 3.53 mm	AS568 -201 \rightarrow -284	W \approx 0.185 - 0.222 in	E \approx 0.012 - 0.033 in	\sim 9 - 23%
0.210 in \approx 5.33 mm	AS568 -309 \rightarrow -395	W \approx 0.281 - 0.311 in	E \approx 0.017 - 0.045 in	\sim 8 - 21%
0.275 in \approx 6.99 mm	AS568 -425 \rightarrow -475	W \approx 0.375 - 0.408 in	E \approx 0.029 - 0.076 in	\sim 10 - 20%