

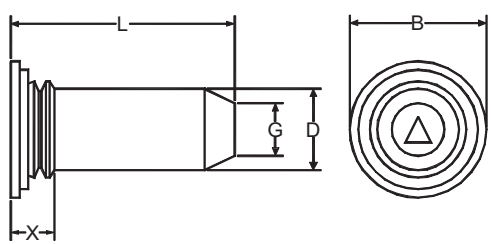
Self-Clinching Pins



Series CGS (Tapered Guide Pins)

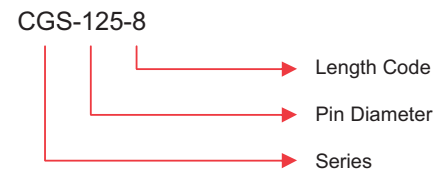
CGS Tapered Guide Pins provide a strong flush-head assembly in materials as thin as .040 in. (1mm) with high pushout resistance. A tapered end allows ease of locating mating hole in a variety of alignment and pivot applications.

| Series | Material | Finish * |
|--------|----------------------------|----------------------|
| CGS | 300 Series Stainless Steel | Passivated ASTM A380 |



Use in: Materials with Rockwell Hardness of B-70 or less.

Part Number Structure:



Dimensions & Specifications

| INCH (in.) | Pin Dia. D ± .002 | L Length ± .015 in. | | | | | B ± .015 | X Max | G ± .006 | Min | +.003 -.000 | Min |
|------------|----------------------|------------------------|------|------|------|------|-------------|----------|-------------|---------|--------------------|---------|
| | | .375 | .500 | .625 | .750 | 1.00 | | | | | | |
| | .125 | -6 | -8 | -10 | -12 | | .205 | .090 | .090 | .040 | .144 | .250 |
| | .187 | -6 | -8 | -10 | -12 | -16 | .270 | .090 | .132 | .040 | .205 | .280 |
| | .250 | | -8 | -10 | -12 | -16 | .335 | .090 | .177 | .040 | .272 | .310 |

| METRIC (mm) | Pin Dia. D ± 0.05 | L Length ± 0.4 mm. | | | | | B ± 0.4 | X Max | G ± 0.15 | Min | +0.08 | Min |
|-------------|----------------------|-----------------------|-----|-----|-----|-----|------------|----------|-------------|---------|-----------|---------|
| | | 8 | 10 | 12 | 16 | 20 | | | | | | |
| | 3mm | -8 | -10 | -12 | -16 | | 5.2 | 2.29 | 2.05 | 1 | 3.5 | 6.4 |
| | 4mm | -8 | -10 | -12 | -16 | | 6.12 | 2.29 | 2.82 | 1 | 4.5 | 7.1 |
| | 5mm | | -10 | -12 | -16 | -20 | 7.19 | 2.29 | 3.53 | 1 | 5.5 | 7.6 |
| | 6mm | | | -12 | -16 | -20 | 8.13 | 2.29 | 4.24 | 1 | 6.5 | 7.9 |

Installation & Performance Data

| INCH (in.) | Pin Dia. D ± .002 | Test Material | Sheet Hardness HRB | | |
|------------|----------------------|---------------|--------------------|---------------------|----------------|
| | | | | Installation (lbs.) | Pushout (lbs.) |
| | .125 | Aluminum | 20 | 4500 | 145 |
| | | Steel | 62 | 6500 | 245 |
| | .187 | Aluminum | 18 | 6500 | 225 |
| | | Steel | 60 | 8000 | 395 |
| | .250 | Aluminum | 18 | 7000 | 265 |
| | | Steel | 62 | 9000 | 495 |

| METRIC (MM) | Pin Dia. D ± 0.05 | Test Material | Sheet Hardness HRB | | |
|-------------|----------------------|---------------|--------------------|-------------------|--------------|
| | | | | Installation (kN) | Pushout (kN) |
| | 3mm | Aluminum | 22 | 12 | 0.55 |
| | | Steel | 65 | 22 | 0.97 |
| | 4mm | Aluminum | 19 | 22 | 0.88 |
| | | Steel | 66 | 26.4 | 1.53 |
| | 5mm | Aluminum | 18 | 28.6 | 1.00 |
| | | Steel | 60 | 35.2 | 1.75 |
| | 6mm | Aluminum | 18 | 30.8 | 1.05 |
| | | Steel | 62 | 39.6 | 2.05 |

NA - Not Available