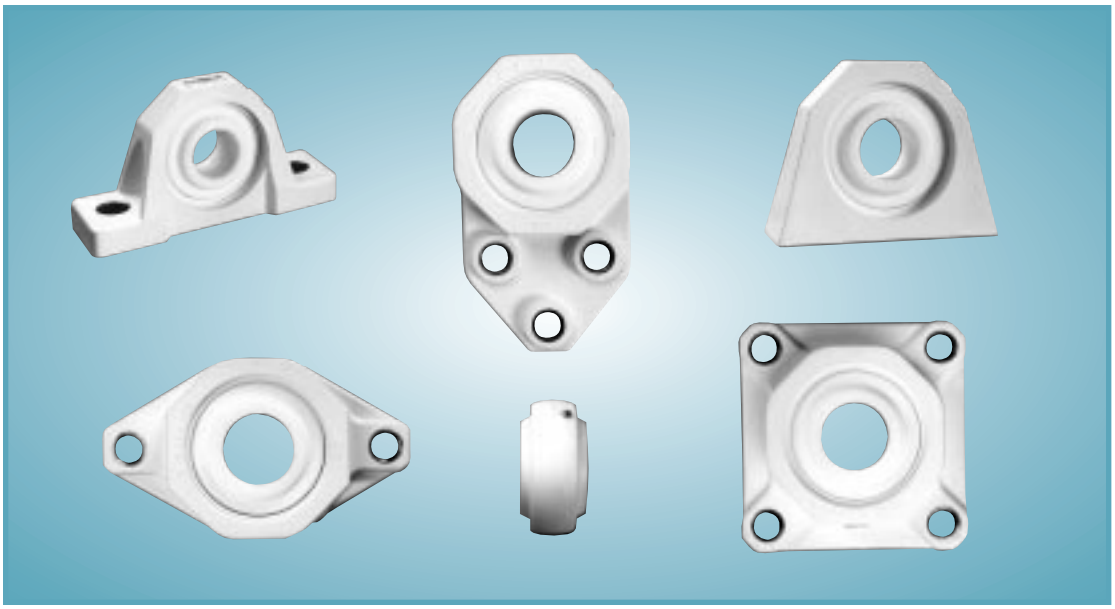
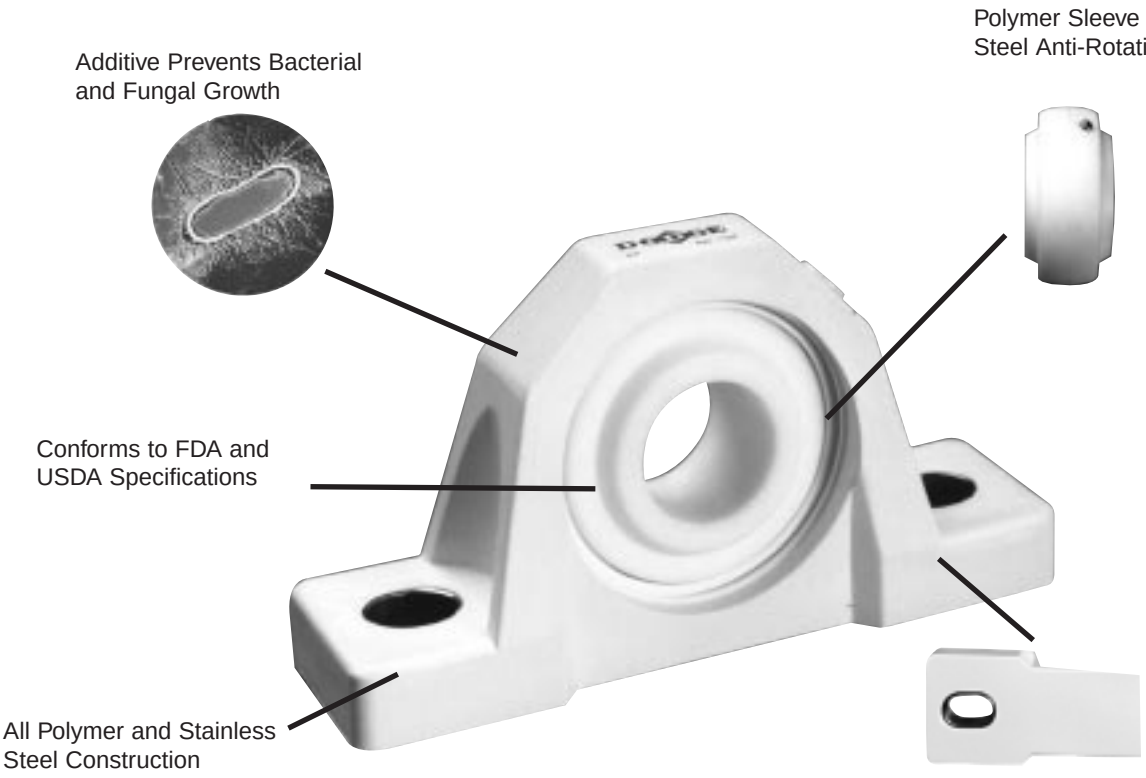
Data Sheet

DODGE®

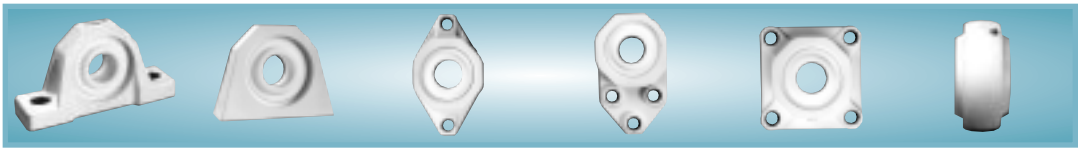
# POLYMER HOUSED POLYMER SLEEVE BEARINGS






BEARINGS

# Polymer Housed Polymer Sleeve Bearings, Stock Part Numbers:



| Series | Shaft Size | Pillow Block | Tapped Base Pillow Block | Two Bolt Flange | Flange Bracket | Four Bolt Flange | Polymer Insert |
|---|---|---|---|---|---|---|---|
| 204 | 3/4 | 034700 | 034710 | 034726 | 034736 | 034716 | 034187 |
| 205 | 1 | 034701 | 034711 | 034727 | 034737 | 034717 | 034188 |
| 206 | 1-3/16 | 034702 | 034712 | 034728 | 034738 | 034718 | 034189 |
| 206 | 1-1/4 | 034703 | 034713 | 034729 | 034739 | 034719 | 034190 |
| 207 | 1-1/4 | 034704 | 034714 | 034730 | 034740 | 034720 | 034191 |
| 207 | 1-7/16 | 034705 | 034715 | 034731 | 034741 | 034721 | 034192 |
| 208 | 1-1/2 | 034706 | ---------- | 034732 | ---------- | 034722 | 034193 |
| 209 | 1-11/16 | 034707 | ---------- | 034733 | ---------- | 034723 | 034364 |
| 209 | 1-3/4 | 034708 | ---------- | 034734 | ---------- | 034724 | 034368 |
| 210 | 1-15/16 | 034709 | ---------- | 034735 | ---------- | 034725 | 034194 |

| Ring Size | Shaft Size | Radial Load Ratings (lbs.) at Various Revolutions per Minute (RPM) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Up To 10 | 25 | 50 | 75 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 |
| 204 | 3/4 | 450 | 400 | 375 | 300 | 230 | 175 | 110 | 90 | 60 | 50 | 45 | 40 | 35 | 25 | 20 | 15 |
| 205 | 1 | 600 | 550 | 450 | 315 | 235 | 175 | 110 | 90 | 60 | 50 | 45 | 40 | 35 | 25 | 20 | 15 |
| 206 | 1-3/16<br>1-1/4 | 900 | 800 | 500 | 325 | 250 | 175 | 110 | 90 | 65 | 60 | 50 | 40 | 35 | 30 | 25 | 20 |
| 207 | 1-1/4<br>1-7/16 | 1000 | 900 | 600 | 400 | 300 | 175 | 120 | 95 | 70 | 65 | 55 | 45 | 40 | 35 | 30 | |
| 208 | 1-1/2 | 1400 | 1200 | 700 | 430 | 320 | 180 | 125 | 95 | 70 | 65 | 55 | 45 | 40 | 35 | | |
| 209 | 1-11/16<br>1-3/4 | 1600 | 1400 | 725 | 435 | 335 | 180 | 125 | 95 | 70 | 65 | 55 | 45 | 40 | | | |
| 210 | 1-15/16 | 1800 | 1600 | 750 | 450 | 350 | 185 | 130 | 100 | 80 | 70 | 60 | 50 | 45 | | | |

Continuous operating temperature: - 40 to 180°F.
For load and speed combinations not shown on this chart or thrust load capabilities, contact DODGE Engineering, Columbus, IN.
Good performance can be achieved with a wide variety of standard shaft materials, ranging from cold rolled steel to 300 series stainless steels.
Commercial shafting tolerance is acceptable, +0.000/-0.002; however, a shaft surface finish of 10-20 microinch is recommended to reduce bearing wear. A surface finish smoother than 10 will prohibit the internal lubricants from transferring onto the shaft. This can cause an increase in the friction of the bearing system.
Radial load ratings are established for normal operating conditions. The service life may be reduced due to harsh environmental conditions with excessive temperature, dirt, and abrasive materials. Therefore, field testing is recommended to verify bearing operating performance under harsh environmental conditions.
DODGE collars are available and should be purchased separately for shaft location.

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