

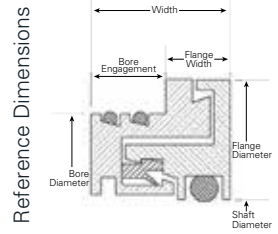
# GUARDIAN™ XL - Bearing Isolators

Material: Filled PTFE unitizing ring and fluoroelastomer O-rings are standard. Please inquire about special O-rings.

Temperature: -22°F to 400°F (-30°C to 204°C), limited by fluoroelastomer O-rings.



Pressure: Design pressure differential across the seal is 0 psi.

Cross Section: Minimum cross section (C/S) of 0.375" unless otherwise stated, C/S = (Bore Diameter - Shaft Diameter) / 2



GUARDIAN Configurations	Description	IP Rating	Surface Speed	Axial Motion	Misalignment & Runout	Shaft Diameter Ranges	Overall Width (Flange Width / Bore Engagement)	Flange Diameter = Bore ID + Stator Flange (SF) (CS Range : SF)
 Standard Flanged	Construction Material: 29602: Bronze 29604: 316 SS  Drainports: 1 inboard 1 outboard	IP 66	12,000 fpm  60.9 m/s	±0.025"  ±0.64 mm	±0.020"  ±0.51 mm	0.625" to 10.500"  15.9 mm to 266.7 mm	0.700" (0.325" / -0.375")  17.8 mm (8.3 mm / 9.5 mm)	(≤0.625") : 0.347" (>0.625") : 0.125"  (≤15.9 mm) : 8.8 mm (>15.9 mm) : 3.2 mm
 Small Cross Section 0.188" min C/S	Construction Material: 29607: Bronze 29606: 316 SS  Drainports: 1 inboard 1 outboard	IP 65	12,000 fpm  60.9 m/s	±0.015"  ±0.38 mm	±0.010"  ±0.25 mm	0.625" to 5.500"  15.9 mm to 139.7 mm	0.625" (0.375" / -0.250")  15.9 mm (9.5 mm / 6.4 mm)	(≤0.375") : 0.285" (>0.375") : 0.125"  (≤9.5 mm) : 7.2 mm (>9.5 mm) : 3.2 mm
 Narrow Width Flangeless	Construction Material: 29609: Bronze 29611: 316 SS  Drainports: 0 inboard 0 outboard	IP 65	12,000 fpm  60.9 m/s	±0.015"  ±0.38 mm	±0.010"  ±0.25 mm	0.625" to 4.000"  15.9 mm to 101.6 mm	0.375" (0.000" / -0.375")  9.5 mm (0.0 mm / 9.5 mm)	N/A
 Flangeless	Construction Material: 29619: Bronze 29612: 316 SS  Drainports: 1 inboard 0 outboard	IP 65	12,000 fpm  60.9 m/s	±0.025"  ±0.64 mm	±0.020"  ±0.51 mm	0.625" to 10.500"  15.9 mm to 266.7 mm	0.625" (0.000" / -0.625")  15.9 mm (0 mm / 15.9 mm)	N/A
 Split Pillow Block Standard & Custom	Construction Material: 29616: Bronze 29617: 316 SS  Drainports: 1 inboard 1 outboard	IP 66	12,000 fpm  60.9 m/s	±0.025"  ±0.64 mm	±0.020"  ±0.51 mm	0.625" to 10.500"  15.9 mm to 266.7 mm	Various (0.500" / Various)  Various (12.7 mm / Various)	(≤0.625") : 0.347" (>0.625") : 0.125"  (≤15.9 mm) : 8.8 mm (>15.9 mm) : 3.2 mm
 Vertical Design**	Construction Material: 29620: Bronze 29622: 316 SS  Drainports: 0 inboard 0 outboard	IP 66	12,000 fpm  60.9 m/s	±0.025"  ±0.64 mm	±0.020"  ±0.51 mm	0.625" to 10.500"  15.9 mm to 266.7 mm	0.700" (0.325" / -0.375")  17.8 mm (8.3 mm / 9.5 mm)	(≤0.625") : 0.347" (>0.625") : 0.125"  (≤15.9 mm) : 8.8 mm (>15.9 mm) : 3.2 mm
 Step Shaft Custom Design	Construction Material: 29697: Bronze  Drainports: 1 inboard 1 outboard	IP 65	12,000 fpm  60.9 m/s	±0.025"  ±0.64 mm	±0.020"  ±0.51 mm	0.625" to 10.500"  15.9 mm to 266.7 mm	Various	Various
 Surface Mounted 0.250" max C/S Required	Construction Material: 29603: Bronze  Drainports: Various	IP 66	12,000 fpm  60.9 m/s	±0.025"  ±0.64 mm	±0.020"  ±0.51 mm	0.625" to 10.500"  15.9 mm to 266.7 mm	0.595" (0.959" / 0.000")  15.1 mm (15.1 mm / 0.0 mm)	Various

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 Standard Flanged	Construction Material: 29680: Bronze 29681: 316 SS  Drainports: 1 inboard 1 outboard	IP 56	4,500 fpm  22.86 m/s	±0.025"  ±0.64 mm	±0.020"  ±0.51 mm	10.50" to 22"  266.7 mm to 558 mm	0.875" (0.375" / 0.5")  22.2 mm (9.5 mm / 12.7 mm)	(≤0.625") : 0.347" (>0.625") : 0.125"  (≤15.9 mm) : 8.8 mm (>15.9 mm) : 3.2 mm
 Flangeless	Construction Material: 29682: Bronze 29683: 316 SS  Drainports: 1 inboard 1 outboard	IP 55	4,500 fpm  22.86 m/s	±0.025"  ±0.64 mm	±0.020"  ±0.51 mm	10.50" to 22"  266.7 mm to 558 mm	0.875" (0" / 0.875")  22.2 mm (0 mm / 22.2 mm)	N/A