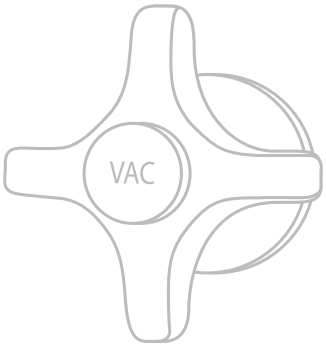
STIRRER BEARINGS

Vacuum Rated

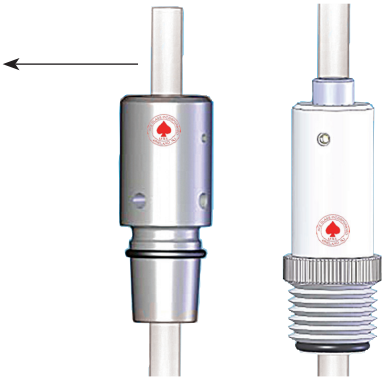
Factors such as stirring speed, shaft composition, required vacuum depth, chemical resistance of wetted surfaces and your tolerance for wear particles must be considered prior to selecting the correct bearing/shaft combination for your application. Stirring speed, will be generally a maximum of 400 rpm or below, unless you chose the Ace Trubore bearing which can achieve up to 1500 rpm using our Stir-Lube, a silicone based lubricant, or up to 2000 rpm with a chlorofluorocarbon grease such as Ace Hi-Lube (Ace recommends our water-cooled bearings for extended use at high rpm). *(continued on back)*



Ultra-Vacuum Stirrer Bearing

- Max vacuum: 0.6 Torr (0.6mm Hg)
- Max RPM: 400
- Wetted Materials of Construction: Borosilicate glass, PTFE, Rulon, PEEK, Perfluoro
- Acceptable Shaft Materials: Polished glass, Stainless Steel
- Seal Type: Static

Shaft Dia. (mm)	Joint Size	Order Code
10	24/40	8050-02
10	29/32	8050-14
10	29/42	8050-04
10	#15 Ace-Thred	8050-10
10	#25 Ace-Thred	8050-12
19	45/50	8050-06
25.4	45/50	8050-16
28	45/50	8050-08
30	45/50	8050-18



Self-Aligning PTFE Bearing

Self-aligning, lubricant-free PTFE bearing for use with polished glass and stainless steel stir shafts. Debris trap model prevents bearing-wear particles from contaminating the reaction vessel and has a side port for clean-out, evacuating or purging.

- Max vacuum: 1 Torr (1mm Hg)
- Max RPM: 400
- Wetted Materials of Construction: Borosilicate glass, PTFE, FETFE
- Acceptable Shaft Materials: Polished glass, Stainless Steel
- Seal Type: Static

Shaft Dia. (mm)	Joint Size	Order Code
Self-Aligning PTFE Bearing		
10	24/40	8066-43
10	29/42	8066-46
10	34/45	8066-50
10	45/50	8066-55
19	45/50	8067-30
28	45/50	8067-105
Self-Aligning PTFE Bearing w/Debris Trap		
10	24/40	8066-320
10	29/42	8066-324
10	34/45	8066-328
10	45/50	8066-332
19	45/50	8067-54
28	45/50	8067-80

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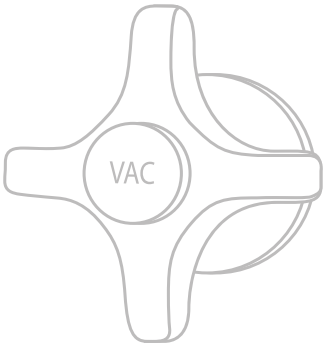
ACE GLASS INCORPORATED

Vacuum Rated
Stirrer Bearings

Shaft composition is important not just to chemical resistance, but also to matching the bearing to reduce wear as most shaft/bearing seals are static, that is, only the shaft rotates while the seal is maintained by mechanical compression of O-rings. Such wear can, over time, introduce particles of the bearing material into your reaction unless you chose the Ace debris trap bearings or the Ace rotary seal offering where the bearing and shaft are fixed in relation to each other. All Ace bearings will achieve excellent depths of vacuum and our glass and PTFE offerings provide excellent chemical resistance. Contact Ace Glass Technical Support on-line (www.aceglass.com) or call (800-223-4524) to have Ace tailor a stirring solution for your particular application.



Trubore Bearing

- Max vacuum: 0.5 Torr (0.5 mm Hg)
- Max RPM: 2000
- Wetted Materials of Construction: Borosilicate glass
- Acceptable Shaft Materials: Stainless steel, Ground Glass, PTFE
- Seal Type: Static, Lubricated

Shaft Dia. (mm)	Joint Size	Order Code
Bearing		
6	14/20	9524-06
6	19/22	9524-08
9	24/40	8133-10
9	29/42	8133-15
10	24/40	8051-10
10	29/42	8051-15
10	34/45	8051-20
10	45/50	8051-25
19	45/50	8061-04
Packing Box		
9	—	8111-10
10	—	8111-10
19	—	8112-10

Lubricants

Description	Max RPM	Order Code
Stir Lube	1500	8117-10
Hi-Lube	1500	8119-07
Grease	2000	8229-10

Debris-Free PTFE Bearing

PTFE stirrer bearing featuring a non-shedding, fully enclosed, anti-whip, chemically resistant design. Unlike traditional bearings, the upper portion rotates with the shaft.

- Max vacuum: 5 Torr (5 mm Hg)
- Max RPM: 500
- Shaft Sizes (mm): 6, 8, 10
- Materials of Construction: Borosilicate glass, PTFE, PEEK
- Acceptable Shaft Materials: Polished glass, ground Glass, Stainless Steel, PTFE
- Seal Type: Rotary

Shaft Dia. (mm)	Joint Size	Order Code
6	19/22	13443-06
6	24/40	13443-08
8	24/40	13443-10
10	24/40	13443-12

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