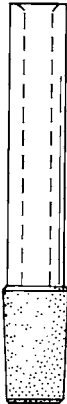


STIRRERS

QS-1005 STIRRER BEARING

Precision bore ID interchangeable with all "Q" Glass stirring rods. Inner joint at bottom. Available with a 10mm or 19mm bore.

10mm Bore		19mm Bore	
Joint Size	Code	Joint Size	Code
19/38	-110	29/42	-216
24/40	-111	34/45	-217
29/42	-112	45/50	-218
34/45	-113	55/50	-219
45/50	-114	71/60	-220
55/50	-115		



QS-1040 STIRRER BEARING, TEFLON

Solid teflon precision bore ID with mercury cup at top and inner joint at bottom. Interchangeable with all "Q" Glass stirring rods. Available with 10mm or 19mm bore.

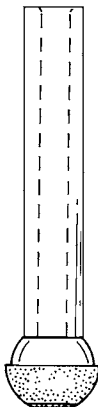
10mm Bore		19mm Bore	
Joint Size	Code	Joint Size	Code
19/38	-110	29/42	-215
24/40	-111	34/45	-216
29/42	-112	45/50	-217
34/45	-113		
45/50	-114		



QS-1010 STIRRER BEARING

Precision bore ID. Similar to QS-1000, but with a ball joint.

10mm Bore		19mm Bore	
Joint Size	Code	Joint Size	Code
28/15	-110	35/25	-215
35/25	-111	50/30	-216
50/30	-112	65/40	-217
65/40	-113	75/50	-218
75/50	-114		

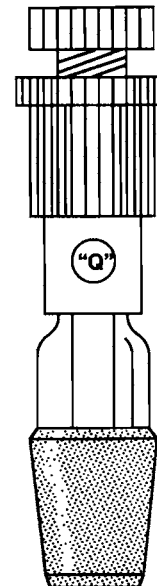


QS-1045 STIRRER BEARING GLASS-TEFLON

Precision bore ID. A threaded glass ground joint enables the teflon components to seal against the stirring rod for vacuum fit by means of a teflon saddle O ring, with a teflon sleeve and teflon locking nut. Interchangeable with all "Q" Glass stirring rods. Available with 10mm or 19mm bore.

10mm Bore		19mm Bore	
Joint Size	Code	Joint Size	Code
19/38	-110	55/60	-216
24/40	-111	71/60	-217
29/42	-112		
34/45	-113		
45/50	-114		
55/50	-115		

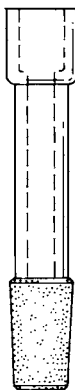
Saddle O Ring Only
Packages of 6
Code
-300



QS-1020 STIRRER BEARING

Precision bore ID with mercury cup at top and inner joint at bottom. Interchangeable with all "Q" Glass stirring rods. Available with 10mm or 19mm bore.

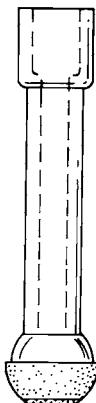
10mm Bore		19MM Bore	
Joint Size	Code	Joint Size	Code
19/38	-110	29/42	-216
24/40	-111	34/45	-217
29/42	-112	45/50	-218
34/45	-113	55/50	-219
45/50	-114	71/60	-220
55/50	-115		



QS-1030 STIRRER BEARING

Precision bore ID. Similar to QS-1020, but with a ball joint.

10mm Bore		19mm Bore	
Joint Size	Code	Joint Size	Code
28/15	-110	35/25	-215
35/25	-111	50/30	-216
50/30	-112	65/40	-217
65/40	-113	75/50	-218
75/50	-114		



QS-1050 STIRRER BEARING, TEFLON

10mm ID precision bore. Similar to QS-1045, but the joint is also teflon. Interchangeable with all "Q" Glass 10mm stirring rods.

10mm Bore		Saddle O Ring Only Packages of 6	
Joint Size	Code	Code	
19/38	-110	-300	
24/40	-111		
29/42	-112		
34/45	-113		
45/50	-114		



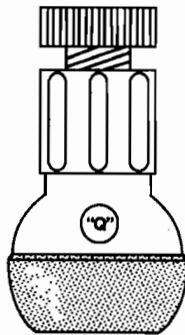
STIRRERS

QS-1055 STIRRER BEARING, TEFLON

10mm ID precision bore. Similar to QS-1050, but with a ball joint.

Joint Size	Code
28/15	-110
35/25	-111

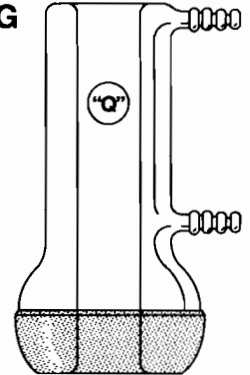
Saddle O Ring Only
 Packages of 6
Code
 -300



QS-1075 STIRRER BEARING JACKETED, HEAVY DUTY

19mm ID precision bore. Similar to QS-1070, but with a ball joint.

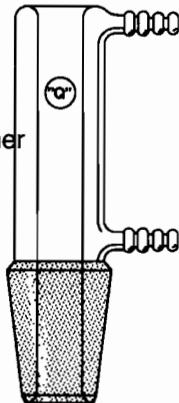
Joint Size	Code
50/30	-110
65/40	-111
75/50	-112
102/75	-113



QS-1060 STIRRER BEARING JACKETED

10mm ID precision bore, jacketed, with inlet and outlet hose connections and inner joint. Interchangeable with all "Q" Glass 10mm stirring rods.

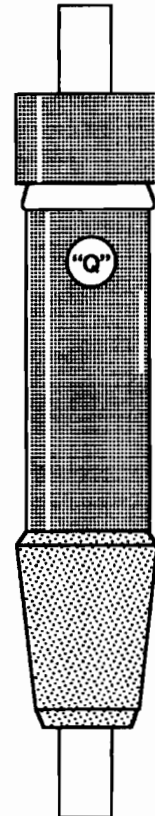
Joint Size	Code
24/40	-110
29/42	-111
34/45	-112
45/50	-113



QS-1077 STIRRER BEARING STAINLESS STEEL

10mm ID precision bore. Stainless steel bearing has a thick teflon inner sleeve and retainer to seal against the stirrer rod. With inner joint at bottom. Interchangeable with all "Q" Glass 10mm stirring rods.

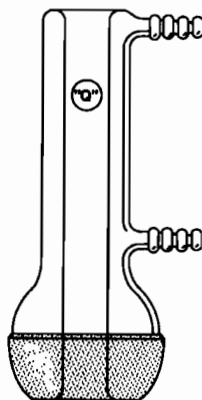
Joint Size	Code
24/40	-110
29/42	-111
34/45	-112



QS-1065 STIRRER BEARING JACKETED

10mm ID precision bore. Similar to QS-1060, but with a ball joint.

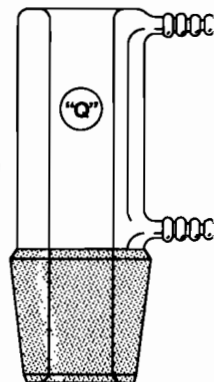
Joint Size	Code
35/25	-110
50/30	-111
65/40	-112



QS-1070 STIRRER BEARING JACKETED, HEAVY DUTY

19mm ID precision bore, jacketed, with inlet and outlet hose connections and inner joint. Interchangeable with all "Q" Glass 19mm stirring rods.

Joint Size	Code
45/50	-110
55/50	-111
71/60	-112



QS-1080 STIRRER ROD

8mm OD, unground, with button at the bottom for attachment of all stirrer blades.

Flask Capacity, ML	Code
250-5000	-110
12000-22000	-111



STIRRERS

QS-1090 STIRRER ROD

8mm OD, unground, with ring at bottom for attaching pin and lock washer assembly QS-2001 to attach stirrer blade.

Flask Capacity, ML	Code
250-5000	-110
12000-22000	-111



QS-2015 STIRRER ROD, POLISHED

Similar to QS-2010, but the ground section is also polished for use with teflon bearings and teflon insert bearings.

Flask Capacity, ML	Code
250-1000	-110
2000-3000	-111
5000	-112
12000-22000	-113



QS-2000 STIRRER ROD

Similar to QS-1090, but with a 10mm OD precision ground section to fit all 10mm stirrer bearings.

Flask Capacity, ML	Code
250-1000	-110
2000-3000	-111
5000	-112
12000-22000	-113



QS-2020 STIRRER ROD

10mm precision ground. The entire length is precision ground. For use with all 10mm ID bearings. With bottom button for attachment of all stirrer blades.

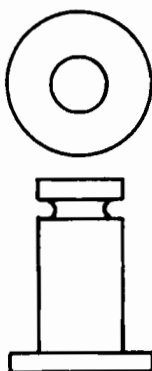
Flask Capacity, ML	Code
100-5000	-110
12000-22000	-111



QS-2001 STIRRER ROD PIN AND LOCK ASSEMBLY

All teflon, accommodates crescent or banana blade. For use with QS-1090 and QS-2000 stirrer rods.

Code
-110



QS-2025 STIRRER ROD, POLISHED

Similar to QS-2020, but the rod is also polished. For use with teflon bearings and teflon insert bearings.

Flask Capacity, ML	Code
100-5000	-110
12000-22000	-111



QS-2010 STIRRER ROD

10mm precision ground. For use with all 10mm ID bearings. An 8mm OD section at top fits into chuck and has a bottom button for attachment of all stirrer blades.

Flask Capacity, ML	Code
250-1000	-110
2000-3000	-111
5000	-112
12000-22000	-113



QS-2028 STIRRER ROD STAINLESS STEEL

10mm precision ground and polished stirrer rod, made of type 316 stainless steel and detachable button for all stirrer blades.

Flask Capacity, ML	Code
100-1000	-110
2000-5000	-111
12000	-112
22000	-113



STIRRERS

QS-2029 STIRRER ROD, STAINLESS STEEL

10mm precision ground and polished 18-8 stainless steel stirrer rod with detachable 18-8 stainless crescent blade.

Flask Capacity, ML	Rod Length, MM	Blade Dim., MM	Code
250	330	19 x 60	-110
500-1000	330	19 x 75	-111
2000-3000	445	20 x 110	-112
5000	445	20 x 130	-113
12000	515	21 x 130	-114
22000	590	21 x 130	-115



QS-2030 STIRRER ROD

Heavy duty 19mm OD, precision ground. For use with all 19mm ID bearings. There is a bottom button for attachment of heavy duty stirrer blades.

Flask Capacity, ML	Code
5000	-110
12000-22000	-111
50000-72000	-112

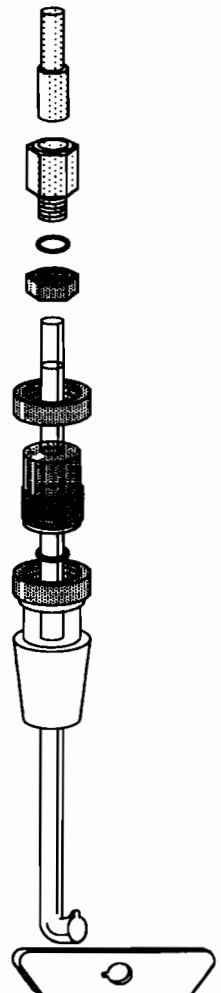


QS-2037 HIGH VACUUM STIRRER SET

Chesapeake. For vacuum, atmosphere and pressure applications. Trouble free operation for pressure as low as 0.133uPA (10-6mm HG) consists of a glass stirrer rod, teflon fluorocarbon resin bearing with inner joint, adapter chuck, a 3" and 4" teflon blade, and 6 O rings. Easy to clean and assemble.

Stirrer Length, IN.	24/40 Code	29/42 Code
14 1/2	-110	-214
20	-111	-215
25	-112	-216
30	-113	-217

Stirrer Rod Only	Code
14 1/2	-318
20	-319
25	-320
30	-321



All other parts available separately. Please call with your request.

QS-2032 STIRRER ROD

10mm precision ground. For use with all 10mm ID bearings. An 8mm section at top fits into chucks. Bottom blades are attached, located one above the other, 90° apart. 19mm blade diameter fits through a 24/40 joint or larger, 24mm through a 29/42, 38mm through a 45/50.

Flask Capacity, ML	Blades diameter		
	19mm Code	24mm Code	38mm Code
250-5000	-110	-212	-314
12000-22000	-111	-213	-315



QS-2035 STIRRER ROD

Precision ground stirrer for reaction flasks. Two blades above four larger blades approximately 3" in diameter. Available with a 10mm or 19mm precision ground section.

Flask Capacity, ML	10MM Stirrer Code	19MM Stirrer Code
5000	-110	-213
12000-22000	-111	-214
50000-72000	-112	-215



STIRRERS

QS-2040 STIRRER BLADES, TEFLON

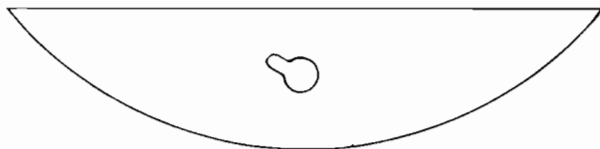
Crescent type stirrer blade made of 1/8" thick solid teflon. For all 10mm button type stirring rods.

Flask Capacity, ML	Width x Length	Code
100	19 x 48	-110
250-300	19 x 60	-111
500-1000	19 x 75	-112
2000-3000	24 x 110	-113
5000	24 x 130	-114
12000	35 x 185	-115
22000	39 x 160	-116

QS-2050 STIRRER BLADES, TEFLON HEAVY DUTY

Similar to QS-2040, but 3/16" thick, heavy duty, solid teflon. For all 19mm button type stirring rod.

Flask Capacity, ML	Width x Length	Code
1000	35 x 74	-110
2000-3000	35 x 93	-111
5000	35 x 130	-112
12000	35 x 150	-113
22000	39 x 160	-114
50000	44 x 175	-115
72000	54 x 200	-116



QS-2072 GT21 STIRRING SYSTEM

A favorite with chemists and lab technicians everywhere. Totally enclosed, 1/40 hp motor with two output shafts for maximum speeds of 6000 and 333 rpm. The armature shaft provides high speeds for mixing light materials, while the geared shaft generates 5.4 lb.-in (6.2 kg-cm) of torque at slower speeds for stirring heavy pastes & mixtures. Continuously variable speed control. The GT21 stirring system is furnished with motor, lab-stand mounting bracket, controller and the following accessories: 3 jaw chuck, coupling, paddle, propeller, 3 step pulley, and motor base plate.

Motor Type	Input Voltage	Max. RPM	Torque		Complete Code	Motor Only Code	Controller Only Code
			LB.-IN.	KG-CM			
Dual shaft 18:1 gearmotor	120	333/6000	5.4/26	6.2/3	-110	-212	-314
Dual shaft 18:1 gearmotor	208-240	333/6000	5.4/26	6.2/3	-111	-213	-315

QS-2060 STIRRER BLADES, TEFLON BANANA SHAPE

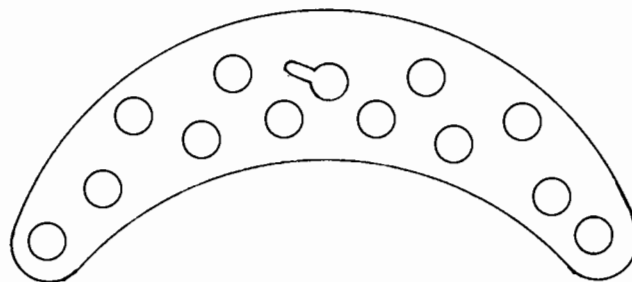
Made of 1/8" thick teflon for all 10mm button type stirring rods. Bottom of blade is similar to actual bottom of flasks. Available in solid or perforated for improved stirring.

Flask Capacity, ML	Minimum Joint Clearance	Solid Blade Code	Perforated Blade Code
500	34/45	-110	-217
1000	34/45	-111	-218
2000	34/45	-112	-219
3000	34/45	-113	-220
5000	45/50	-114	-221
12000	45/50	-115	-222
22000	71/60	-116	-223

QS-2070 STIRRER BLADES, TEFLON HEAVY DUTY, BANANA SHAPE

Similar to QS-2060, but 3/16" thick, heavy duty, teflon for all 19mm button type stirring rods.

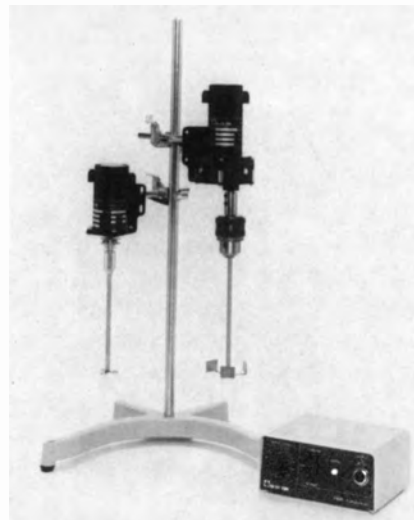
Flask Capacity, ML	Minimum Joint Clearance	Solid Blade Code	Perforated Blade Code
1000	34/45	-110	-216
2000	34/45	-111	-217
3000	34/45	-112	-218
5000	45/50	-113	-219
12000	45/50	-114	-220
22000	71/60	-115	-221



STIRRERS

QS-2073 GT24 STIRRING SYSTEM

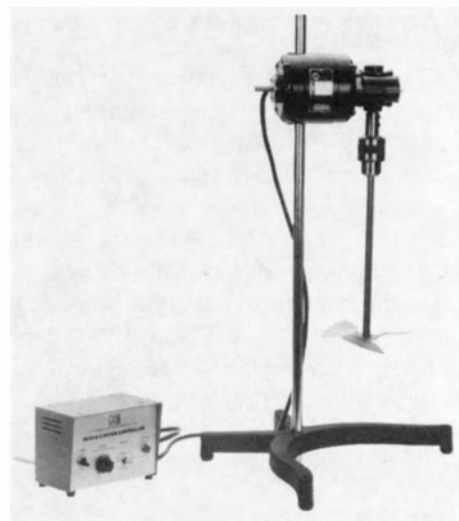
The GT24 stirring system offers the user a stirrer with more power than the GT21 and a selection of speed ranges up to 2500 rpm. This model combines today's permanent-magnet motor technology with solid state electronics to provide a worthy companion to the popular GT21. Totally enclosed, 1/17 hp, cool and quiet running motors with direct drive and geared options. Models available with speeds up to 2500 rpm and torques up to 12 lb-in. (13.8 kg-cm). Continuously variable speed control. The GT24 stirring system is furnished complete with motor, lab-stand mounting bracket, controller and the following accessories: paddle, propeller, 1/4" (6.4mm) collet with pulley (with code -110 and -113 only), 5/16" (7.9mm) collet with pulley (with code -110 and -113 only). 3 jaw chuck and arbor (with code -111, -112, -114 and -115 only.)



<u>Motor Type</u>	<u>Input Voltage</u>	<u>Max. RPM</u>	<u>Torque</u>		<u>Complete Code</u>	<u>Motor Only Code</u>	<u>Controller Only Code</u>
			<u>LB.-IN.</u>	<u>KG-CM</u>			
Single shaft motor, direct drive	120	2500	1.5	1.7	-110	-216	-322
Single shaft 6:1, gearmotor	120	417	5.4	6.2	-111	-217	-323
Single shaft 12:1, gearmotor	120	408	12	13.8	-112	-218	-324
Single shaft motor, direct drive	208-240	2500	1.5	1.7	-113	-219	-325
Single shaft 6:1, gearmotor	208-240	417	5.4	6.2	-114	-220	-326
Single shaft 12:1, gearmotor	208-240	208	12	13.8	-115	-221	-327

QS-2074 6T60 STIRRING SYSTEM

Totally enclosed, 1/20hp, ball bearing shunt-wound DC motor with two output shafts. Geared shaft on 10:1 ratio model rated at 12 lb-in. (13.8 kg-cm) @ 180 rpm; armature shaft 1.8 lb-in. (2 kg-cm) torque @ 1800 rpm. Continuously variable speed control. Dual speed range switch allows doubling of these speeds for thinner mixtures. For extremely thick, heavy mixtures, models with 20:1 or 40:1 gearheads should be selected. The 6T60 stirring system is furnished complete with motor and lab-stand mounting bracket, controller, and the following accessories: 3 jaw chuck and arbor, propeller, bushing, motor base plate and right angle clamp.

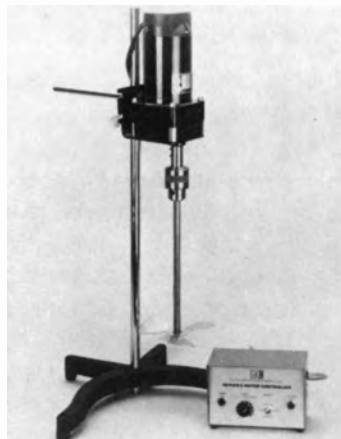


<u>Dual Shaft Gear-Motor Type</u>	<u>Input Voltage</u>	<u>High Speed Range Torque</u>			<u>Low Speed Range Torque</u>			<u>Complete Code</u>	<u>Motor Only Code</u>	<u>Controller Only Code</u>
		<u>Max. RPM</u>	<u>LB.-IN.</u>	<u>KG-CM</u>	<u>Max. RPM</u>	<u>LB.-IN.</u>	<u>KG-CM</u>			
10:1	120	3600/300	.9/6	1/6.9	1800/180	1.8/12	2/13.8	-110	-216	-322
20:1	120	3600/150	.9/9.21	1/10.5	1800/90	1.8/18.4	2/21	-111	-217	-323
40:1	120	3600/75	.9/10	1/11.5	1800/45	1.8/20	2/23	-112	-218	-324
10:1	208-240	3600/360	.9/6	1/6.9	1800/180	1.8/12	2/13.8	-113	-219	-325
20:1	208-240	3600/180	.9/9.2	1/10.5	1800/90	1.8/18.4	2/21	-114	-220	-326
40:1	208-240	3600/90	.9/10	1/11.5	1800/45	1.8/20	2/23	-115	-221	-327

STIRRERS

QS-2075 ST20 STIRRING SYSTEM

A powerful stirring outfit. Totally enclosed. 1/8 hp, cool, quiet running, permanent-magnet motor in direct-and-gear-drive models with torques from 3.1 lb.-in (3.57 kg-cm) to 96 lb.-in. (111 kg-cm). Provides a stirrer with more power than the 6T60 and a selection of speed ranges up to 2500 rpm. Continuously variable speed control. The ST20 stirring system is furnished complete with motor and lab-stand mounting bracket, controller, and the following accessories: 3 jaw chuck and arbor for Code -110 and -115, 3 jaw chuck and arbor for geared models, propeller and right angle clamp.



Motor Type	Input Voltage	Max. RPM	Torque		Complete Code	Motor Only Code	Controller Only Code
			LB.-IN.	KG-CM			
Single shaft motor, direct drive	120	2500	3.1	3.57	-110	-220	-330
Single shaft 4:1, gearmotor	120	660	6	6.9	-111	-221	-331
Single shaft 9:1, gearmotor	120	266	21	24.2	-112	-222	-332
Single shaft 20:1, gearmotor	120	125	46	53	-113	-223	-333
Single shaft 44:1, gearmotor	120	57	96	111	-114	-224	-334
Single shaft motor, direct drive	208-240	2500	3.1	3.57	-115	-225	-335
Single shaft 4:1, gearmotor	208-240	660	6	6.9	-116	-226	-336
Single shaft 9:1, gearmotor	208-240	266	21	24.2	-117	-227	-337
Single shaft 20:1, gearmotor	208-240	125	46	53	-118	-228	-338
Single shaft 44:1, gearmotor	208-240	57	96	111	-119	-229	-339

QS-2076 HST10 SERIES STIR-TESTER

Totally enclosed, 1/17 hp, permanent-magnet DC motor. Direct drive model provides 20 to 2500 rpm and 1.5 lb.-in. torque (1.73 kg-cm). The HST10 is available in direct drive and geared models in 6:1 and 12:1 ratios for max. speed/torques of 417 rpm/5.4 lb.-in. (6.2 kg-cm) and 208 rpm/12.0 lb.-in. (13.8 kg-cm) respectively. The HST10 includes the drive motor with mounting bracket, controller and the following accessories: 8mm collet with pulley (with codes -110 and -113 only), 3 jaw chuck and arbor (with codes -111, -112, -114 and -115 only), paddle, propeller and right angle clamp.



Motor Type	Input Voltage	hp	Max. RPM	Torque		Complete Code	Motor Only Code	Controller Only Code
				LB.-IN.	KG-CM			
Direct drive; rpm/torque readout and X-Y output Similar to Code -110 but	120	1/17	2500	1.5	1.73	-110	-216	-322
with 6:1 gearmotor Similar to Code -110 but	120	1/17	417	5.4	6.22	-111	-217	-323
with 12:1 gearmotor	120	1/17	208	12	13.8	-112	-218	-324
Direct drive; rpm/torque readout and X-Y output Similar to Code -113 but	208-240	1/17	2500	1.5	1.73	-113	-219	-325
with 6:1 gearmotor Similar to Code -113 but	208-240	1/17	417	5.4	6.22	-114	-220	-326
with 12:1 gearmotor	208-240	1/17	208	12	13.8	-115	-221	-327

STIRRERS

QS-2077 HST20 SERIES STIR-TESTER

1/8 hp, permanent-magnet DC motor. Direct drive model provides speeds up to 2500 rpm and 50 oz.-in. (3.6 kg-cm) of torque. Geared model HST20 gives 2 to 265 rpm and torques to 336 oz.-in. (24.2 kg-cm). Other models provide torques up to 1536 oz.-in. (111 kg-cm). HST20 includes the drive motor with mounting bracket, controller, and the following accessories: 3 jaw chuck and arbor, propeller and right angle clamp.



Description	Input Voltage	hp	Max. RPM	Torque		Complete Code	Motor Only Code	Controller Only Code
				OZ.-IN.	KG-CM			
Direct drive; rpm/torque readout and X-Y output	120	1/8	2500	50	3.57	-110	-220	-330
Similar to Code -110 but with 4:1 gearmotor	120	1/8	660	96	6.9	-111	-221	-331
Similar to Code -110 but with 9:1 gearmotor	120	1/8	266	336	24.2	-112	-222	-332
Similar to Code -110 but with 21:1 gearmotor	120	1/8	125	736	53	-113	-223	-333
Similar to Code -110 but with 44:1 gearmotor	120	1/8	57	1536	111	-114	-224	-334
Direct drive; rpm/torque readout and X-Y output	208-240	1/8	2500	50	3.57	-115	-225	-335
Similar to Code -115 but with 4:1 gearmotor	208-240	1/8	660	96	6.9	-116	-226	-336
Similar to Code -115 but with 9:1 gearmotor	208-240	1/8	266	336	24.2	-117	-227	-337
Similar to Code -115 but with 21:1 gearmotor	208-240	1/8	123	736	53	-118	-228	-338
Similar to Code -115 but with 44:1 gearmotor	208-240	1/8	57	1536	111	-119	-229	-339

QS-2078 THE AGITATOR

"Q" Glass Co. is proud to introduce the new Arrow Electric Laboratory Agitator. The forward-reverse rotation of the Agitator provides powerful mixing action and eliminates cavitation.

The instant-FORWARD instant-REVERSE rotation of the Agitator is electronically controlled and has a variable reversing time cycle of 2 sec. min., 20 sec. max.. This feature, along with the variable speed control of the Agitator, allows you to create the most dynamic and violent mixing action with no formation of air bubbles. The Agitator can also be used as a regular stirrer by simply selecting the standard mode. The Agitator has all the features of our electric laboratory stirrers and will handle a wide range of applications. It is specially designed to handle the more viscous materials. It is direct driven and delivers 39.8 in-ozs or 2.43 in-lbs of constant torque throughout its speed range of to 2000 rpm.



Type	Speed Range	Constant Torque	Motor	Power	Code
Direct Drive	0-2000 RPM	39.8 IN-OZS 2.43 IN-LBS	1/15 HP	115VAC	-110

STIRRERS

QS-2079 ELECTRIC LABORATORY STIRRER

Specifically designed with the workplace in mind. All models are STATE OF THE ART in laboratory stirrers. These variable speed stirrers are electronically controlled and built to handle viscosities ranging from light watery solution to high viscosity fluid, depending on the model.

ALL THREE MODELS FEATURE:

Totally enclosed non-ventilated motor, keeps corrosive fumes and dust out for a long and trouble-free service life.

Permanent magnet D.C. motor provides maximum constant torque through entire speed range.

An on/off switch for quick stopping if necessary.

Overload protection - a manually resettable circuit breaker for total safety.

Eye level heavy cast aluminum control box integrated with motor keeps workplace uncluttered of unnecessary gadgetry and away from corrosive spills or splashes and allows for efficient and safe use of stirrer.

Eye level control knob electronically regulates speed of application required.

Each model comes complete as shown including 9/16 dia. x 10" long aluminum support rod and 6 ft. three wire cord with grounded plug.

The shaft and propeller are made of stainless steel to resist most acids and chemicals for easier cleaning. (The shaft measures 12" L x 3/8" dia., and a 2 1/2" dia. propeller.)

MODEL# 6000

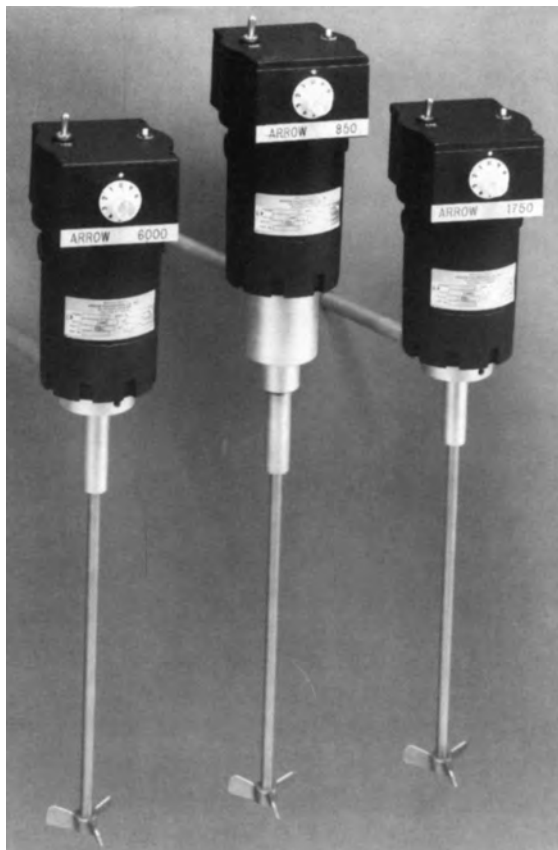
Is a low cost and light duty stirrer ideal for stirring light to medium-light viscosity fluids. This direct drive stirrer delivers 16.8 in-ozs or 1.05 in-lbs. of constant torque throughout its speed range of 0 to 6000 rpm.

MODEL# 1750

Is a general purpose stirrer and will handle a wide range of applications. It is specially designed to handle the more viscous materials. This direct drive stirrer delivers 39 in-ozs or 2.43 in-lbs. of constant torque throughout its speed range of 0 to 2000 rpm.

MODEL# 850

Specially designed for heavy duty viscous materials, the 850 provides speed with power. This high torque gearhead stirrer delivers 117.6 in-ozs. or 7.35 in-lbs of torque and will maintain constant speed regardless of viscosity changes as mixing progresses. Speed range from 0 to 1000 rpm. Its slim design is ideal for use in 3 neck flasks.



<u>Model #</u>	<u>Type</u>	<u>Speed Range</u>	<u>Constant Torque</u>	<u>Motor</u>	<u>Power</u>	<u>Code</u>
#6000	Direct Drive	0-6000	16.8 in-oz or 1.05 in-lbs	1/10 hp	115 VAC	-110
#1750	Direct Drive	0-2000	39 in-oz or 2.43 in-lbs.	1/15 hp	115 VAC	-220
#850	Gearhead 7-1R	0-1000	117.6 in-oz or 7.35 in-lbs.	1/10 hp	115 VAC	-330

STIRRERS

QS-2080 AIR POWERED STIRRERS

Features

- Low cost - quiet - explosion proof - light weight - variable speed - slim design

Choose from three models to safely mix your volatile fluids. Safely use these air drive mixers whenever using electrical power might be hazardous or impractical. Ideal for mixing all types of solvents, lacquers, and volatile chemicals without the possibility of spark ignition.

Three explosion proof models are available for your high speed general purpose, and high torque mixing applications; see table below for individual specifications.

All motors accept an air input line pressure from 35 to 100 psi and deliver up to 1/3 hp at 80 psi. Needle valve allows you to vary mixing speed. Built in muffler ensures quiet operation.

Mixers include a 4 ft. length of air hose with double fittings for connection to your air supply.

Note: we recommend using a filter/regulator in your air supply line. (QS-2081).

Each mixer comes complete with a mounting rod and a chemical resistant stainless steel paddle assembly. (The shaft measures 12"L x 3/8" dia., and a 2 1/2" dia. propeller).

MODEL TYPE "A"

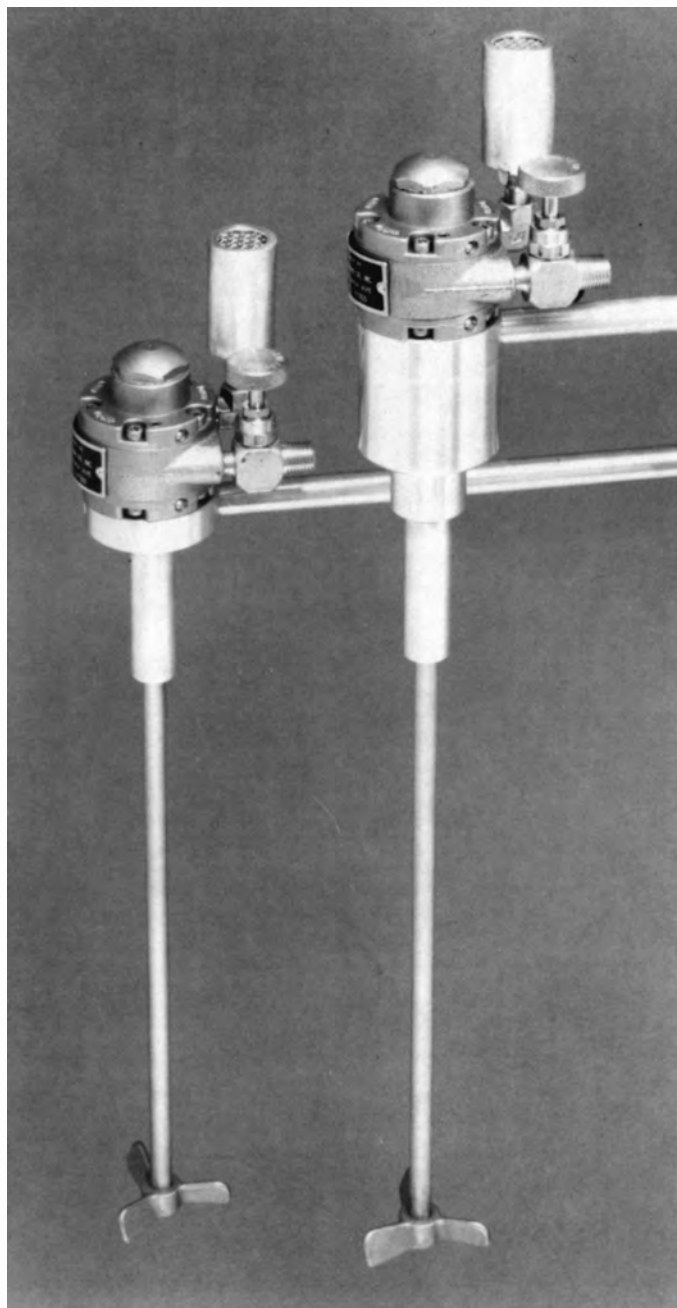
Is a low cost and light duty stirrer ideal for stirring all types of solvents, lacquers, oils, synthetics and chemicals. Speed ranging from 200 to 10,000 rpm. *Torque 3.6 in-lbs.

MODEL TYPE "G"

Is a general purpose stirrer specially designed for use with more viscous materials, the model "G" provides speed with power. A more constant speed is attained through a 7-1 gear reduction thus lowering speed fluctuations due to changes in air pressure. Speed range from 50 to 1200 rpm. *Torque 18 in-lbs.

MODEL TYPE "GG"

Specifically designed for heavy duty viscous material where low rpm and constant speed is required. Constant speed and low rpm is attained through a 49-1 gear reduction. Speed range from 8 to 170 rpm. *Torque 100 in-lbs.



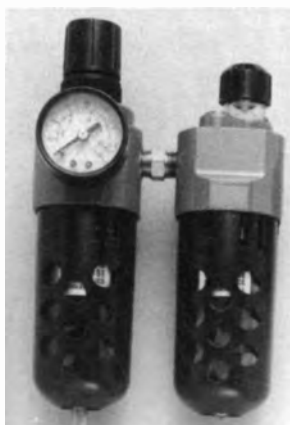
Model #	Type	Speed Range RPM	Torque	Gear Ratio	Air Input (psi)	Code
Type A	High Speed	200 to 10000	3.6	---	35 to 100	-110
Type G	General Purpose	50 to 1200	18.0	7 to 1	35 to 100	-220
Type GG	High Torque	8 to 170	100	49 to 1	35 to 100	-330

*Torque given at air motor speed of 6000 rpm and pressure of 80 psi.

STIRRERS

QS-2081 FILTER/REGULATOR/LUBRICATOR

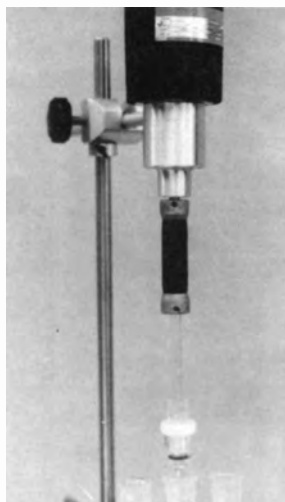
For a long and trouble free life of your air powered stirrer. We recommend that the air supply be filtered to remove oil and water aerosols, as well as foreign particles larger than 40 microns. An automatic air line lubricator must be installed in the air line just ahead of the motor. The lubricator should be adjusted to feed one drop of oil for every 50-70 CFM (approximately 1 drop every 5 minutes) of air going through the motor. Inlet and Outlet connections are 1/4" NPT.



Description	Code
Complete Assembly (Filter/Regulator/Lubricator)	-110
Filter/ Regulator Assembly (with Gauge)	-111
Lubricator Only	-112

QS-2082 COUPLING, FLEXIBLE WITH TEFLON SLEEVE

For use with glass stirring shafts. 4" length provides angular and parallel misalignment of shaft without danger of breakage. The rubber sleeve body absorbs shock and provides quiet, vibration free running and great torsional stiffness. Very easy to use and only teflon sleeve contacts shaft.



10MM Glass Shaft Motor Shaft		19MM Glass Shaft Motor Shaft	
Size, IN	Code	Size, IN	Code
1/4"	-110	3/8"	-214
5/16"	-111	1/2"	-215
3/8"	-112	5/8"	-216
1/2"	-113	3/4"	-217

QS-2083 COLLETS AND CHUCKS

A variety of chucks are available to meet your needs. Refer to the following list:

Description	Capacity		Code
	Inches	MM	
Nickel plated collet for 1/4" (6.4mm) motor shaft	1/4	6.4	-110
Nickel plated collet with V Belt pulley for 5/16" (7.9mm) motor shaft	1/4	6.4	-111
3 step, aluminum pulley with 5/16" (7.9mm) bore	5/16	7.9	-112
Heavy duty, 3 jaw chuck with arbor for 1/2" (12.7mm) motor shaft and bushing for 3/8" (9.5mm dia.) motor shaft with key	1/2	12.7	-113
Precision 3 jaw chuck with arbor for 5/16" (7.9mm) motor shaft. With key.	3/8	9.5	-114
Precision 3 jaw chuck with arbor for 3/8" (9.5mm) motor shaft. With key.	1/2	12.7	-115
Precision 3 jaw chuck with arbor for 1/2" (12.7mm) motor shaft. With key.	1/2	12.7	-116
Precision 3 jaw chuck with arbor for 5/8" (15.9) motor shaft. With key.	1/2	12.7	-117
Precision 3 jaw chuck with arbor for 14mm motor shaft. With key.	1/2	12.7	-118
Nickel plated 3 jaw chuck with arbor for 5/16" (7.9mm) motor shaft. Keyless.	3/8	9.5	-119
Nylon bodied keyless chuck for 1/4" motor shaft.	1/4	6.4	-120
Nylon bodied keyless chuck for 5/16" motor shaft.	5/16	7.9	-121
Nylon bodied keyless chuck for 3/8" motor shaft.	3/8	9.5	-122



STIRRERS

QS-2084 STIRRING PADDLES

Stainless steel. 3 blade paddle, 2 1/2" diameter, on a 5/16" shaft with coupling.

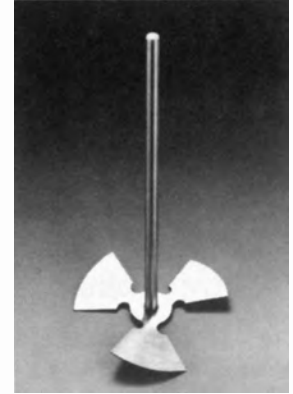
Shaft Length, In.	Code
8 3/4	-110
12	-111
18	-112



QS-2088 STIRRING PROPELLERS

Heavy duty stainless steel. 3 bladed propeller, 6" diameter, on a 1/2" shaft.

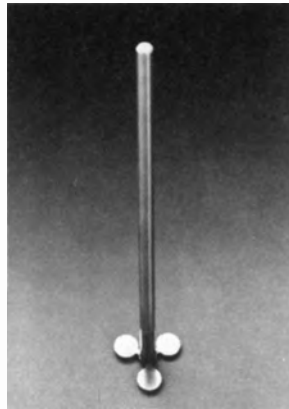
Shaft Length, In.	Code
12	-110



QS-2085 STIRRING PROPELLER

Stainless steel. 3 bladed propeller, 1 1/2" diameter, on a 5/16" shaft with coupling.

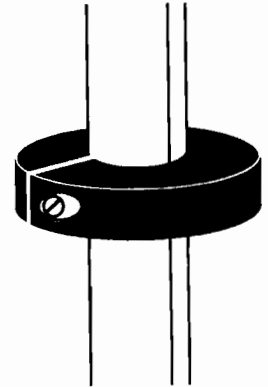
Shaft Length, In.	Code
8 3/4	-110
12	-111
18	-112



QS-2089 STIRRER ROD RETAINER

Nylon retainers, when mounted on stirrer rods prevent damage to flask by the rod slipping down.

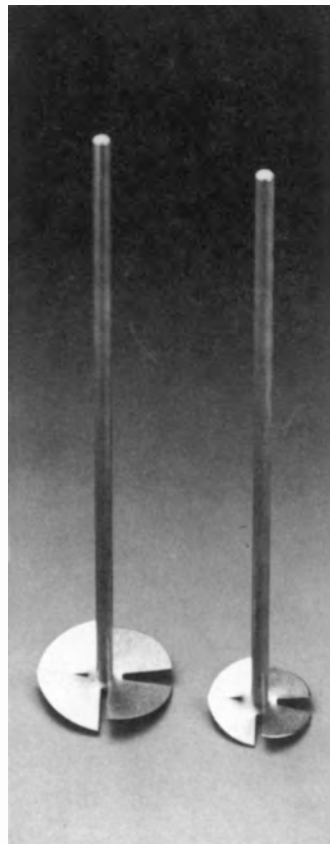
Stirrer Rod OD,MM	Code
10	-110
19	-111



QS-2086 STIRRING PROPELLER

Stainless steel. 4 bladed propeller, 1 1/2" diameter, on a 1/4" shaft.

Shaft Length, In.	Code
6	-110
9	-111
12	-112
18	-113



QS-2087 STIRRING PROPELLER

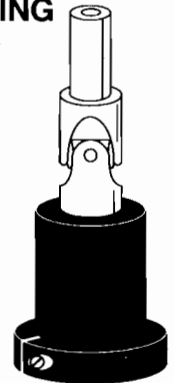
Stainless steel. 4 bladed propeller, 2" diameter, on a 1/4" shaft.

Shaft Length, In.	Code
6	-110
9	-111
12	-112
18	-113

QS-2090 STIRRER ROD COUPLING UNIVERSAL JOINT

Universal joint at top compensates for vibration and misalignment of the stirrer rod. It is light weight and reduces the burden on the motor. Easy assembly from the chuck to the stirrer rod.

Stirrer Rod OD,MM	Code
10	-110
19	-111



REMEMBER

"Q" Glass has been working with customers to design and build custom glass apparatus and component parts since 1946. We can do the same for you. Please write or call us with your special requirements.

STIRRERS

QS-2091 UNIVERSAL CLAMP

"Power hold", used for most applications, versatile clamp, available in two sizes.

<u>Fit Stirrer Stand, OD</u>	<u>Code</u>
3/8" to 5/8"	-110
1/2" to 3/4"	-111

QS-2092 SWIVEL CLAMP

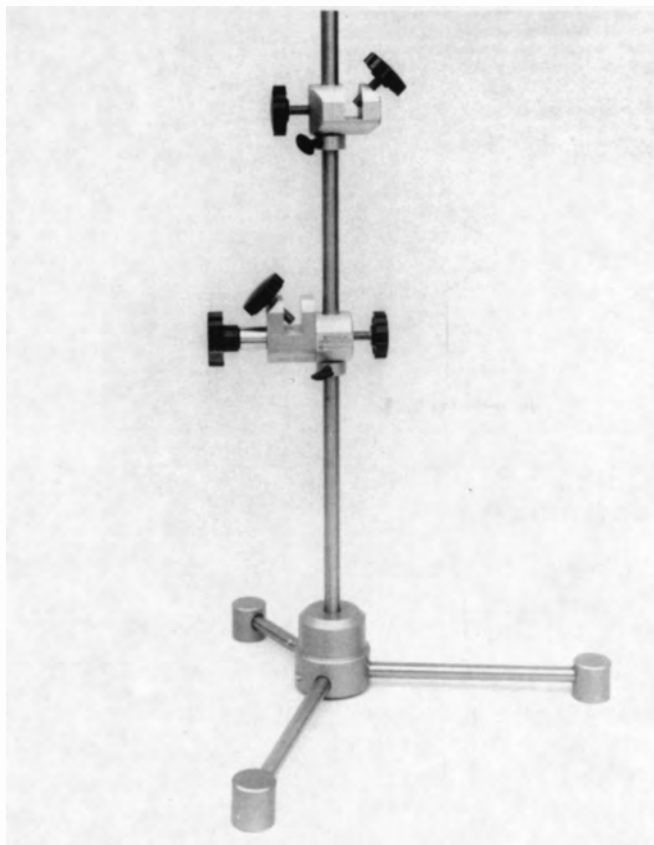
The universal clamp lets you set the stirrer to any compound angle for best stirring action. One knob lets you lower and raise the stirrer, one knob locks stirrer on the support rod, and one knob controls swivel setting. Fits stirring stands from 1/2" to 3/4" OD.

<u>Code</u>
-110

QS-2093 SUPPORT STAND

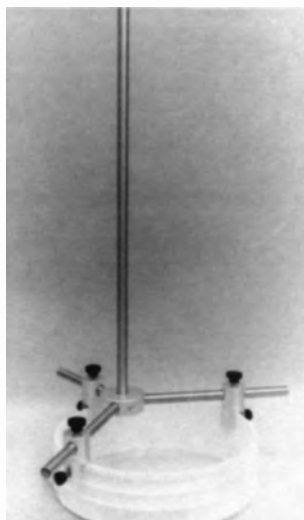
A steel base with a stainless steel rod. Legs have rubber pads to cut vibration. The overall height is 29".

<u>Support Rod, OD</u>	<u>Code</u>
5/8"	-110
3/4"	-111



QS-2094 SUPPORT STAND

The Spider Support Stand got its name because of its ability to clamp on the edge of 5 gallon pails, small drums, square or rectangular tanks. The Spider Support Stand will fit securely on vessels with rims up to 5/8" wide. The adjustable legs and swivel clamp adjust to give maximum holding power. The Spider Support Stand is constructed of lightweight aluminum base and has a 5/8" diameter x 24" high stainless steel support rod, allowing you to lower and raise the stirrer to your needs. The Stand provides a safe and secure mounting system on any vessels and it comes in two models.



<u>Description</u>	<u>Code</u>
Fits vessels up to 15"	-110
Fits 55 gallon drums	-111

QS-2095 HORSE SHOE SUPPORT STAND

Heavy duty stand available in two models.

<u>Description</u>	<u>Code</u>
11/16" OD aluminum mast, 24" high accepts containers up to 9" OD.	-110
3/4" OD Nickel plated mast, cast iron base with 1/2"-13 threaded holes for additional rods. Accepts containers up to 16" OD.	-111

