

### GI 45 Stirred Reactor

- Drive using standard magnetic stirrers
- Variable stirrer shaft, can be used for 500 ml and 1,000 ml DURAN® GL 45 laboratory bottles
- Can be used up to 500 rpm
- Compatible with the proven DURAN® connection systems; hoses with bores from 1.6 mm to 6.0 mm can be fitted
- Significantly improved through mixing compared to standard magnetic stirring bar
- Materials used PP / PTFE / PEEK / stainless steel
- Parts in contact with media conform fully to FDA requirements
- Supply includes bottle (optional)

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| <b>A</b>      |
| <b>121 °C</b> |

|               |
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| <b>Tmax</b>   |
| <b>140 °C</b> |

#### Application:

The above mentioned properties make the DURAN® stirred reactor ideal for the widest possible range of mixing processes in laboratories, e.g. mixing liquids or dissolving solids. The connections available permits to introduce other media into the bottle or remove media during mixing.

The whole assembly is autoclaveable, so that it can be used in biological applications, for simple fermentation processes, for example. With the aid of components from the **DURAN® connection system** extra media bottles can be connected or sterile pressure compensation is possible

| Cat No.  | Description  | Thread GL | Qty. Per Pack Pcs |
|----------|--|-----------|-------------------|
| 12003 95 | GL 45 stirred reactor, incl. 500 ml DURAN® GL 45 bottle, folding magnetic stirrer and GL 45 PP cap with 2 x GL 14 ports, 2 x GL 14 PBT caps red  | 45        | 1                 |
| 12003 96 | GL 45 stirred reactor, incl. 1000 ml DURAN® GL 45 bottle, folding magnetic stirrer and GL 45 PP cap with 2 x GL 14 ports, 2 x GL 14 PBT caps red | 45        | 1                 |
| 12003 91 | Folding magnetic stirrer for GL 45 stirred reactor, incl. shaft  | 45        | 1                 |
| 12003 90 | Spare screw cap 2-ports for GL 45 stirred reactor (excl. stirrer) with GL 14 screw cap (PP, blue)  | 45        | 1                 |



### GI 80 Stirred Reactor

materials used: PP / PTFE / PEEK / stainless steel

The GLS 80 stirred reactor is suitable for a wide range of laboratory mixing processes. The connections provided permit addition or removal of media from the bottle during the mixing process. The whole assembly can be autoclaved and is therefore suitable for use in the biological sector. By using components from the GLS 80 connection system, an additional media bottle (OD hose: 1.6 - 12.0 mm) can be connected or a sterile pressure equalizer attached. Drive for the stirrer is provided by a standard commercial magnetic

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| <b>A</b>      |
| <b>121 °C</b> |

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| <b>Tmax</b>   |
| <b>140 °C</b> |

stirrer. The variable agitator shaft can be used in DURAN® GLS 80 laboratory glass bottles (1 000 and 2 000 ml) and provides notably improved mixing in comparison with standard magnetic stir bars.

The agitating element is exchangeable and used up to 500 rpm is possible. Typical applications: mixing of liquids, dissolving of solids, simple fermentation processes

| Cat No.  | Description   | Thread GLS | danchor stirrer mm | Qty. Per Pack Pcs |
|----------|---|------------|--------------------|-------------------|
| 12003 79 | stirred reactor cap, stirrer anchor type, magnetic, complete with shaft, connection and screw cap   | 80         | 62                 | 1                 |
| 12003 80 | stirred reactor anchor type, magnetic, complete with GLS 80 bottle 1000 ml GL 14 screw cap (PP, blue), 2 x GL14 screw cap (PBT red), 2 x GL18 screw cap (PBT red) | 80         | 62                 | 1                 |
| 12003 81 | stirred reactor anchor type, magnetic, complete with GLS 80 bottle 2000 ml GL 14 screw cap (PP, blue), 2 x GL14 screw cap (PBT red), 2 x GL18 screw cap (PBT red) | 80         | 62                 | 1                 |



#### Accessories for GLS 80 stirred reactor

| Cat No.  | Description  | dia anchor stirrer mm | dia impeller stirrer mm | Qty. Per Pack Pcs |
|----------|--|-----------------------|-------------------------|-------------------|
| 12003 82 | Stirrer impeller type, magnetic, for GLS 80 stirred reactor                    |                       | 62                      | 1                 |
| 12003 83 | Stirrer anchor type, magnetic, for GLS 80 stirred reactor                      | 62                    |                         | 1                 |
| 12003 85 | Spare screw cap for GLS 80 stirred reactor, PP blue/grey                       |                       |                         | 1                 |
| 12003 86 | Spare shaft for GLS 80 stirred reactor, stainless steel, incl. PEEK connection |                       |                         | 1                 |