



| Code                        | HI5412                                     | HI5311                         | HI5314                              | HI5414                                     |
|-----------------------------|--------------------------------------------|--------------------------------|-------------------------------------|--------------------------------------------|
| Description                 | reference electrode                        | reference electrode            | reference electrode                 | reference electrode                        |
| Reference                   | single, Hg/Hg <sub>2</sub> Cl <sub>2</sub> | double, Ag/AgCl                | double, Ag/AgCl                     | single, Hg/Hg <sub>2</sub> Cl <sub>2</sub> |
| Junction / Flow Rate        | ceramic, single / 15-20 µL/h               | ceramic, single / 15-20 µL/h   | ceramic, double                     | ceramic, double                            |
| Electrolyte                 | KCl 3.5M                                   | KCl 3.5M                       | KCl 3.5M                            | KCl 3.5M                                   |
| Max Pressure                | 0.1 bar                                    | 0.1 bar                        | 3 bar with back pressure            | 3 bar with back pressure                   |
| Recommended Operating Temp. | -5 to 60°C<br>(23 to 140°F)                | -5 to 100°C<br>(23 to 212°F)   | -5 to 100°C<br>(23 to 212°F)        | -5 to 60°C<br>(23 to 140°F)                |
| Body Material               | glass                                      | glass                          | glass                               | glass                                      |
| Cable                       | 1 m (3.3')                                 | 1 m (3.3')                     | 1 m (3.3')                          | 1 m (3.3')                                 |
| Recommended Use             | general purpose,<br>titrations             | general purpose,<br>titrations | measurements with<br>remote filling | measurements with<br>remote filling        |
| Connection                  | <b>HI5412</b> 4 mm banana                  | <b>HI5311</b> 4 mm banana      | <b>HI5314</b> 4 mm banana           | <b>HI5414</b> 4 mm banana                  |



### High pressure or high concentration of contaminants

Because of the special electrode recharge system of the HI5314 and HI5414, it is possible to connect an outside container. This will increase the amount of electrolyte of the reference half cell and thus, the pressure inside the electrode. By so doing, the junction has the ability to work in high pressure environments without the danger of implosion.