

Appendix 1

System components in laboratory-scale ÄKTA systems

Table A1.1 highlights some system components and the ÄKTA system they relate to. For each component, information such as pressure limit, flow rate range, internal volume, etc., is noted.

Table A1.1. Parameters for ÄKTA system components

| Pumps | Flow rate range | Stroke volume¹/ total internal volume | Max. pressure | Used with² |
|-----------------------------|---|---|-------------------------------|--|
| ÄKTAprime plus pump | 0.1 to 50 ml/min | 200 µl/1 ml | 1 MPa (10 bar, 145 psi) | ÄKTAprime plus |
| ÄKTA start peristaltic pump | 0.5 to 5 ml/min (for wash up to 10 ml/min) | N/A/Internal volume: 126 µl | 0.5 MPa (5 bar, 73 psi) | ÄKTA start |
| P-901 | 0.01 to 100 ml/min | 286 µl/1.4 ml | 10 MPa (100 bar, 1450 psi) | ÄKTApurifier UPC 100, ÄKTApurifier 100, ÄKTAexplorer 100 |
| P-903 | 0.001 to 10 ml/min | 36 µl/0.6 ml | 25 MPa (250 bar, 3625 psi) | ÄKTApurifier UPC 10, ÄKTApurifier 10, ÄKTAexplorer 10 |
| P-905 | 0.001 to 2 ml/min | 36 µl/0.6 ml | 35 MPa (350 bar, 5075 psi) | ÄKTAmicro |
| P-920 | 0.01 to 20 ml/min | 10 ml/10 ml | 5 MPa (50 bar, 725 psi) | ÄKTA _{FPLC} |
| P-960 | 0.1 to 50 ml/min | 200 µl/1 ml | 2 MPa (20 bar, 290 psi) | Sample pump to ÄKTApurifier UPC, ÄKTApurifier, ÄKTAexplorer |
| ÄKTAexpress pump | 0.1 to 65 ml/min | 286 µl/1.4 ml | 3 MPa (30 bar, 435 psi) | ÄKTAexpress |
| P9 | 0.001 to 25 ml/min | 54 µl/0.55 ml | 20 MPa (200 bar, 2900 psi) | ÄKTA avant 25 ÄKTA pure 25 |
| P9-S | 0.01 to 25 ml/min (for wash up to 65 ml/min) | 286 µl/1.4 ml | 10 MPa (100 bar, 1450 psi) | Sample pump to ÄKTA avant 25 and ÄKTA pure 25 |
| P9H | 0.01 to 150 ml/min | 429 µl/1.8 ml | 5 MPa (50 bar, 725 psi) | System and sample pump to ÄKTA avant 150 and ÄKTA pure 150 |

| Mixers | Internal volume | Max. pressure | Used with² |
|--------------------------|------------------------|----------------------------|--|
| M-925 (magnetic stirrer) | 90 µl | 35 MPa (350 bar, 5075 psi) | ÄKTAmicro |
| M-925 (magnetic stirrer) | 0.2 ml | 35 MPa (350 bar, 5075 psi) | ÄKTAmicro |
| M-925 (magnetic stirrer) | 0.6 ml | 25 MPa (250 bar, 3625 psi) | ÄKTA _{FPLC} , ÄKTApurifier UPC 10, ÄKTApurifier 10, ÄKTAexplorer 10 |
| M-925 (magnetic stirrer) | 2 ml | 25 MPa (250 bar, 3625 psi) | ÄKTApurifier UPC, ÄKTApurifier, ÄKTAexplorer |
| M-925 (magnetic stirrer) | 5 ml | 25 MPa (250 bar, 3625 psi) | ÄKTApurifier UPC 100, ÄKTApurifier 100, ÄKTAexplorer 100 |