

# Technical data

| Type   |                    | BVC basic<br>BVC basic G   |
|--|--------------------|--|
| Vacuum control   |                    | mechanical vacuum controller   |
| Maximum switch on pressure<br>(vacuum controller)                                  | Torr<br>(mbar)     | 375<br>(500)   |
| Minimum switch off pressure<br>(vacuum controller)                                 | Torr<br>(mbar)     | 112<br>(150)   |
| Minimum hysteresis<br>(vacuum controller)  | Torr<br>(mbar)     | 37<br>(50)   |
| Maximum permissible inlet<br>pressure (absolute)                                   | psi<br>(bar)       | 16<br>(1.1)  |
| Maximum permissible outlet pres-<br>sure (absolute)                                | psi<br>(bar)       | 16<br>(1.1)  |
| Maximum permissible difference<br>pressure between inlet and outlet                | psi<br>(bar)       | 16<br>(1.1)  |
| Permissible ambient temperature<br>storage / operation                             | °F<br>(°C)         | 14 to 140 / 50 to 104<br>(-10 to +60 / +10 to +40)   |
| Permissible relative atmospheric<br>moisture during operation<br>(no condensation) | %                  | 30 to 85   |
| Maximum media temperature<br>continuous operation<br>short time (< 5 minutes)      | °F (°C)<br>°F (°C) | 104 (40)<br>176 (80)   |
| Inlet connection   |                    | hose nozzle DN 3/5mm   |
| Connection vacuum supply   |                    | hose nozzle DN 6/10 mm /<br>PTFE tubing 8/10 mm  |
| Hydrophobic filter<br>Type<br>Manufacturer<br>Nominal pore diameter                |                    | Midisart® 2000<br>Sartorius Stedim<br>0.2 µm   |
| Degree of protection IEC 60529   |                    | IP 54  |
| Volume collection bottle   | gal<br>(l)         | 1 (polypropylene) / 0.5 (borosilicate<br>glass)<br>(4 (polypropylene) / 2 (borosilicate<br>glass)) |
| Dimensions L x W x H approx.<br>BVC basic<br>BVC basic G                           | in<br>(mm)         | 9.9 x 7.9 x 19.3 (250 x 200 x 490)<br>9.1 x 7.1 x 17.0 (230 x 180 x 430)                           |
| Weight approx.   | lbs.<br>kg         | 6.2<br>(2.8)   |

**We reserve the right for technical modifications without prior notice!**

## Wetted parts

| Components                                 | Wetted materials           |
|--|----------------------------|
| <b>System</b>                              |                            |
| Hose nozzle (to vacuum supply)             | PP                         |
| Valve block                                | PPS glass fibre reinforced |
| closing cap                                | PTFE                       |
| Valve                                      | FFKM                       |
| Diaphragm                                  | FFKM                       |
| Flat seal                                  | FFKM                       |
| O-ring / seal ring                         | FPM                        |
| Transition piece                           | PP                         |
| Elbow fitting                              | ETFE                       |
| Hose                                       | PTFE                       |
| Lead through (metal support)               | PP                         |
| Hose nozzle (on metal support)             | PPS glass fibre reinforced |
| Connection hose (before and behind filter) | silicone rubber            |
| <b>Filter</b>                              |                            |
| Diaphragm                                  | PTFE                       |
| Housing                                    | PP                         |
| <b>Collecting bottle (BVC basic)</b>       |                            |
| Bottle / screw cap                         | PP                         |
| Hose nozzle at bottle head                 | PP                         |
| Tubing in bottle                           | PTFE                       |
| Hose nozzle (connection filter)            | PPS glass fibre reinforced |
| Transition piece                           | PP                         |
| Counter nut                                | PP                         |
| Closing screw                              | PPS glass fibre reinforced |
| <b>Collecting bottle (BVC basic G)</b>     |                            |
| Bottle                                     | borosilicate glass         |
| Cap insert                                 | PP                         |
| Flat seal                                  | EPDM                       |
| Hose nozzle at bottle head                 | PP                         |
| Tubing in bottle                           | PTFE                       |
| Hose nozzle (connection filter)            | PPS glass fibre reinforced |
| Closing screw                              | PPS glass fibre reinforced |

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