



SP 302 SA



SP 402 SA

#### Product Features

- oil free
- maintenance free
- reduced vibrations
- low noise
- very long life time

#### Applications

- Laboratory Equipment
- Industrial Applications



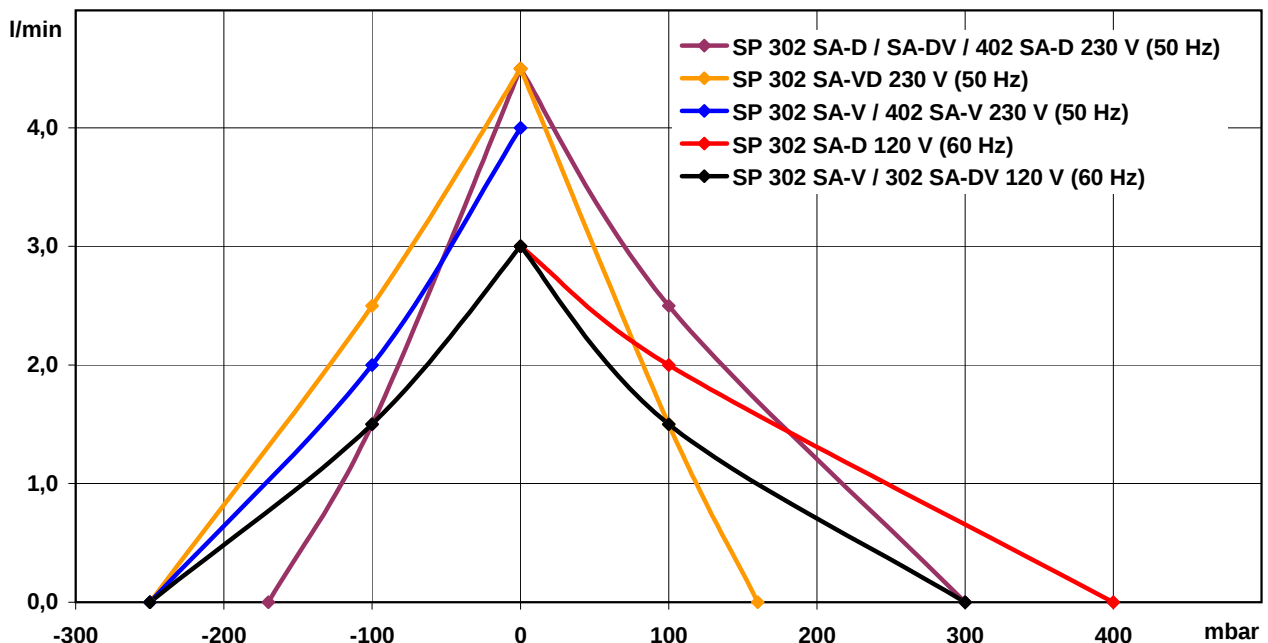
## SP 302 SA / 402 SA

These pumps are our standard models. For special requirements we are offering customised versions. Please contact us!

| Designation               |                        | SP 302 SA                      |      |                           |      |         |                        | SP 402 SA         |                     |
|---------------------------|------------------------|--------------------------------|------|---------------------------|------|---------|------------------------|-------------------|---------------------|
| Configuration Code        | -D<br>Pressure only    | -V<br>Vacuum only              |      | -DV<br>Pressure + Vacuum* |      | -VD     | -DV                    | -V<br>Vacuum only | -D<br>Pressure only |
| Art.No. 230 V (50 Hz)     | 7s15000                | 7s05000                        |      | 7s05022                   |      | 7s05018 | 7s05033                | 7s06000           | 7s16000             |
| Art.No. 120 V (60Hz)      | 7s15005                | 7s05001                        |      |                           |      |         |                        |                   |                     |
| Outlet Configuration      | Nozzle                 | Silencer                       |      | Nozzle                    |      |         |                        | Silencer          | Nozzle              |
| Inlet Configuration       | Foam Filter            | Fabric Mesh Filter with Nozzle |      |                           |      |         |                        |                   | Foam Filter         |
| Pump Control              |                        | On/Off Switch                  |      |                           |      |         |                        | Potentiometer     |                     |
| Pneumatic Performance     |                        |                                |      |                           |      |         |                        |                   |                     |
| Free Flow [l/min]         | 4,5                    | 3,0                            | 4,0  | 3,0                       | 4,5  | 4,5     | 3,0                    | 4,0               | 4,5                 |
| flow at:                  | Pressure Side          |                                |      |                           |      |         |                        |                   |                     |
| 100 mbar [l/min]          | 2,5                    | 2,0                            | -    | -                         | 2,5  | 1,5     | 2,2                    | -                 | 2,5                 |
| max. Pressure [mbar]      | 300                    | 400                            | -    | -                         | 300  | 160     | 300                    | -                 | 300                 |
| flow at:                  | Vacuum Side            |                                |      |                           |      |         |                        |                   |                     |
| -100 mbar [l/min]         | -                      | -                              | 2,0  | 1,5                       | 1,5  | 2,5     | 1,5                    | 2,0               | -                   |
| max. Vacuum [mbar]        | -                      | -                              | -250 | -250                      | -170 | -250    | -250                   | -250              | -                   |
| Motor / Power Consumption |                        |                                |      |                           |      |         |                        |                   |                     |
| Motor Type                | Electromagnetic        |                                |      |                           |      |         | Electromagnetic        |                   |                     |
| Power consumption         | 4,0 W                  |                                |      |                           |      |         | 4,5 W                  |                   |                     |
| Construction              |                        |                                |      |                           |      |         |                        |                   |                     |
| Pump Body                 | Aluminium              |                                |      |                           |      |         | Aluminium              |                   |                     |
| Diaphragm / Seal          | CR-Rubber              |                                |      |                           |      |         | CR-Rubber              |                   |                     |
| Valves                    | CR-Rubber              |                                |      |                           |      |         | CR-Rubber              |                   |                     |
| standard                  | FPM (Viton) / Silicone |                                |      |                           |      |         | FPM (Viton) / Silicone |                   |                     |
| optional                  |                        |                                |      |                           |      |         |                        |                   |                     |
| Weight [g]                | 850                    |                                |      |                           |      |         | 850                    |                   |                     |

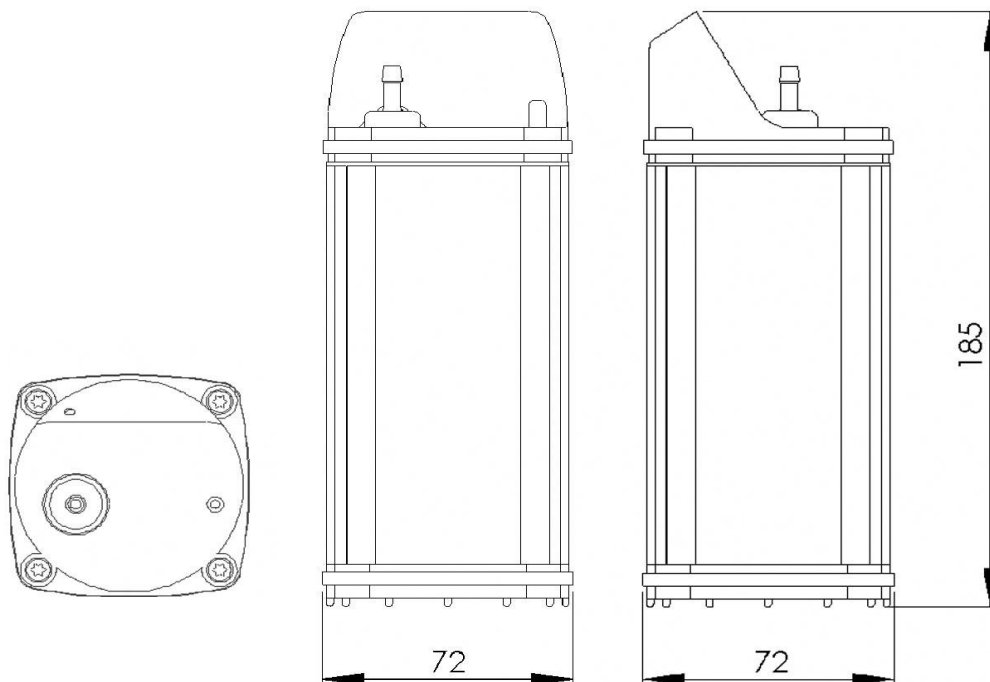
\* DV: optimized Pressure Performance / VD: optimized Vacuum Performance

### Performance Curves





**SP 302 SA / 402 SA**



**SP 302 SA-D**



**SP 302 SA-V**



**SP 302 SA-VD / SP 302 SA-DV**



**SP 402 SA-D**



**SP 402 SA-V**



**optional: without Switch\***



\* (for all SP 302 SA Models)