

### Horizontal position



In the horizontal position the adjustable gravitational unit does not have any resistance. Only the differential pressure unit determines the opening pressure of the whole shunt system. As standard configuration we recommend a differential pressure unit with an opening pressure of 5 cmH<sub>2</sub>O.

### Vertical position



In the vertical position the opening pressure of the complete shunt system is the sum of the opening pressure of the differential unit and the opening pressure of the adjustable gravitational unit. The opening pressure of the adjustable gravitational unit should be chosen depending on height, weight and age of the patient. Our recommendation is as follows:

Horizontal position	opening pressure differential pressure unit	opening pressure adjustable gravitational unit	Vertical position	opening pressure differential pressure unit	recommended opening pressure adjustable gravitational unit
opening pressure of the whole shunt system	5 cmH <sub>2</sub> O *	+ 0 cmH <sub>2</sub> O	opening pressure of the whole shunt system	5 cmH <sub>2</sub> O *	children up to 5 years + 20 cmH <sub>2</sub> O
					active patients + 25 cmH <sub>2</sub> O
					active patients over 60 years + 20 cmH <sub>2</sub> O

\* as special configurations in addition to the standard configuration, differential pressure units with pressure levels 0,10,15 cmH<sub>2</sub>O are available.

The recommendations are based on common patient treatments, but can vary depending on the individual patient's condition.

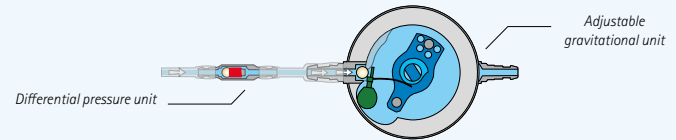
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 SHARING EXPERTISE

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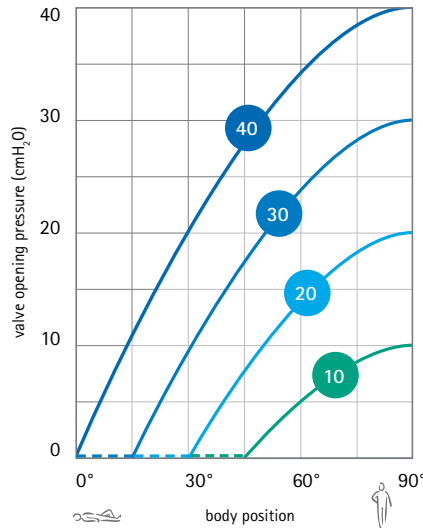
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The opening pressure of the **adjustable gravitational unit** changes depending upon the body position of the patient (sinusoid).

The maximum opening pressure in the vertical position is continuously adjustable from 0 to 40 cmH<sub>2</sub>O.

When adjusting the maximum opening pressure, the **adjustable gravitational unit** starts working at a different body angle position as before.



**Example of use:** The **adjustable gravitational unit**, adjusted to 20 cmH<sub>2</sub>O, only starts working when the body position of the patient reaches 30 degrees from the horizontal.

### Factors for pressure level optimisation:

#### 1. Mobility

Standard pressure levels are suitable for active people.

#### 2. Height

The hydrostatic suction effect normally depends on the height of the patient. Therefore we recommend the following corrections for the estimated pressure configuration of the gravitational unit:

< 1,60 m Height:	- 5 cmH <sub>2</sub> O
> 1,80 m Height:	+ 5 cmH <sub>2</sub> O

#### 3. Overweight

The peritoneal pressure inhibits drainage. Therefore the use of the *proSA*® should be considered for overweight patients as a function of body-mass-index (BMI):

25-29 BMI:	- 5 cmH <sub>2</sub> O
30-34 BMI:	- 10 cmH <sub>2</sub> O
35-39 BMI:	- 15 cmH <sub>2</sub> O
> 40 BMI:	<b>gravitational unit not required</b>