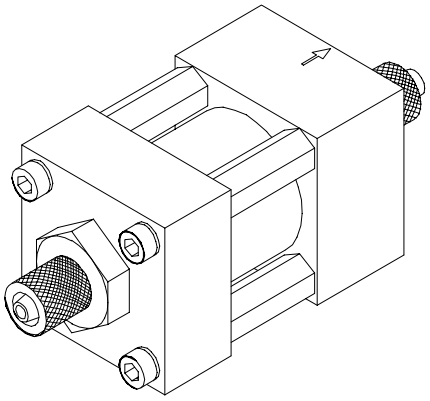
Sample System

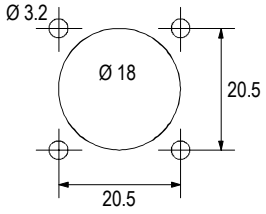


SS1 M1:1

Dimensions:

body	47x27x27 mm
length with fittings	77 mm

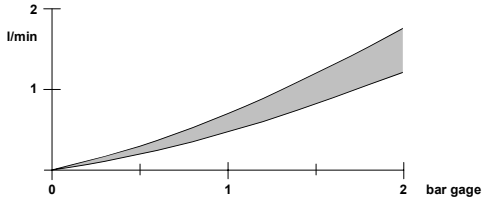
Mounting:



Order number	*Description*
SS1	flow resistance, sample gas filter, small fluid trap, fittings for 3 x 5 PTFE, Al

The Sample System SS1 is a simple but powerful device for leading a small ozone gas sample flow from an ozone system under positive pressure into an OZONE ANALYZER BMT 963 VENT, which measures at atmospheric pressure (VENT mode). The SS1 is a combination of

- flow resistance
- sample gas filter
- small fluid trap



The SS1 has to be positioned in the tubing line between the ozone system and the analyser, preferably as a feed-through e.g. in the wall of an enclosure. The shell of the SS1 is a thick-walled borosilicate glass tube for visual inspection of the porous PTFE filter/throttle element and the fluid trap cavity.

The sample gas flow rate through the SS1 depends upon the pressure in the ozone system. The diagram shows the relationship between that pressure and the approximate resulting flow rate through the SS1 and the analyser.

The outlet fitting is for 3x5 mm PTFE tubing, the inlet fitting may be ordered for 3x5 or 4x6 mm tubing (standard is for 3x5 mm). Inlet is at the hemispherical side of the white PTFE element. The SS1 shall be mounted horizontally, or with the inlet fitting upwards, the latter resulting in a higher allowable fluid trap volume. Mounting holes have to be provided according to the sketch (see above).

The PTFE filter/throttle element can be replaced e.g. should it have become dirty. To open the SS1, the four M3 Allen screws in the entrance block of the SS1 must be removed (using the Allen wrench 2.5 mm, accessory) to withdraw the entrance block and the glass tube from the basis of the SS1. The filter/throttle element then simply can be pulled off by hand, and a new one (accessory) be plugged on.

For monitoring flow rate of the sample gas a flow meter may be included between the SS1 and the analyser, or positioned behind the BMT Catalyzing Cartridge. Behind this cartridge the gas does no more contain ozone. Thus a simple and cheap flow meter may be used which is not resistant against ozone, e.g. our MMF1M or MMF2M.

This drawing is isometric. To obtain the true length of an edge parallel to any of the three axes, multiply its lengh by the scale factor and divide by 0.82.