

Autoclave Steam Requirements





Steam

The autoclave requires a dry saturated steam supply regulated to approximately 3 bar/43psig, supplied via a 100 mesh strainer. A suitable pressure reducing valve should be provided along with 2 x 100mm pressure gauges showing regulated and unregulated pressure, these should be located within view of the intended site of the autoclave. A condensate trap set should be located in the supply within 1 meter of the connection to the autoclave. If required for the satisfactory operation of the reducing valve a condensate trap set should be located in the supply to the pressure reducing valve. If a steam quality test port is required this should be incorporated into the supply pipe-work.

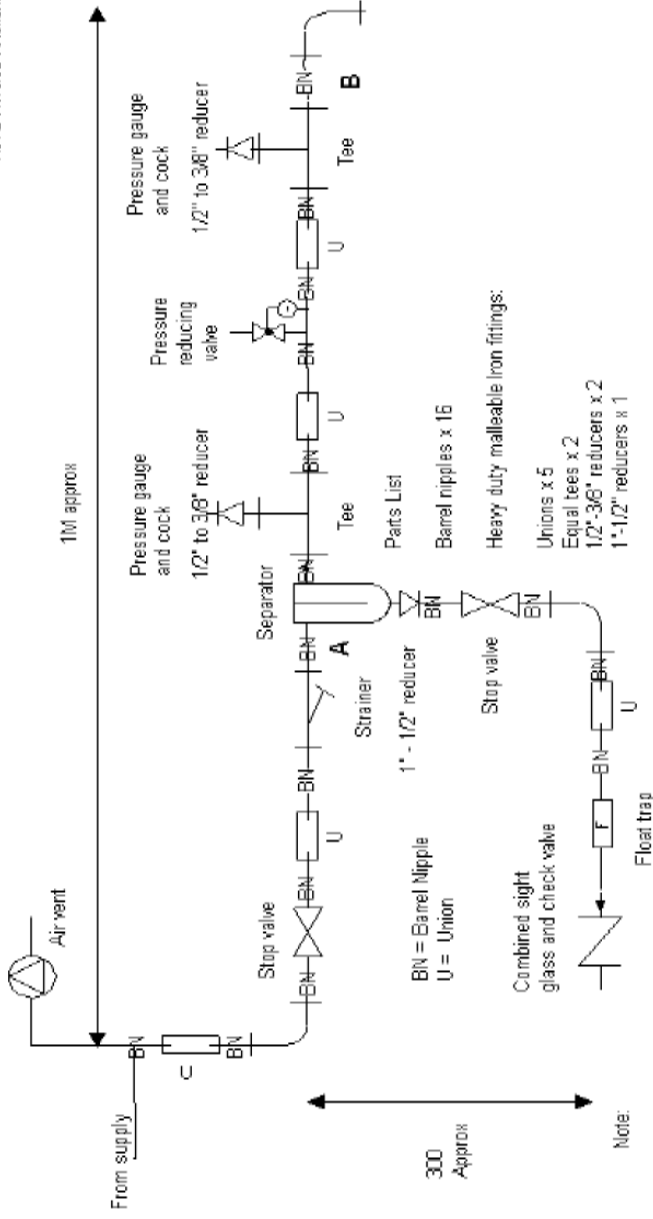
The autoclave will be supplied with a flexible steam hose of 1 meter in length. The steam supply should be terminated with a 1/2" BSP/ DN15 female thread within 1M of the connection to the autoclave to permit connection of the flexible hose. Hoses in 2 and 3 meter lengths can be supplied at no additional charge if requested, however the shorter length is recommended for better appearance and reduced condensate accumulation. Longer hose lengths must be specified in writing to your nominated Priorclave project manager prior to delivery of the autoclave. Delivery and repeat visit charges may be incurred if this is not done. A manual isolation valve should be fitted to the steam inlet line (a DN15 isolation valve is supplied with the autoclave).

The following diagram shows a typical, but by no means definitive example of a reducing valve and trap set arrangement, which could be used to serve a single autoclave. Priorclave can provide assistance in planning a steam arrangement for a whole suite of autoclaves if required.

In the case of removal of an existing autoclave consideration should be given to which parts of the steam supply are integral to the old autoclave. It is possible that some parts may need to be retained, and re-mounted to suit the new autoclave.

Typical steam trap/pressure reducing valve assembly

Rev 2.17/002 T.Ashenden



Note:
 The length of the assembly can be increased by replacing the standard barrel nipples at locations A, and B with made to length parts.

It may be necessary to vary the range of the 10 bar pressure gauge and pressure reducing valve spring depending on incoming steam pressure.

Recommended pipe thread sealant: Trelite black graphite.

To mount pressure gauges in front of pipe specify "U" type syphons. To mount above pipe specify "Pig Tail" syphons.

1 x stainless steel braided flexible steam hose screwed 1/2" bsp male both ends, with swivel fitting 1 end.

Spirax Sarco components:

- 0601000 00 1/2" HVG GM stop valve BSP x 2
- 1636800 00 1/2" fig 12 SG strainer BSP + 100 ss x 1
- 0230200 00 S1 SG separator BSP x 1
- 1440200 00 1/2" FT14-14 TV steam trap BSP R/L x 1
- 1000100 00 1/2" DP17 pressure reducing valve BSP (blue spring)
- 0273360 00 4" pressure gauge (3/8" bottom entry) set with syphon & cock 4 bar
- 0273360 00 4" pressure gauge (3/8" bottom entry) set with syphon & cock 10 bar
- 1/2" sight Check with gunmetal body and borosilicate glass tube
- 1/2" AV13 air vent screwed BSP

