

assembly and operating instruction for maintenance devices series Gold



1 general information

- 1.1 maintenance devices normally consisting of filter, regulator and lubricator are intended for cleaning compressed air for workshop purposes from liquid and solid contamination and for pressure regulation. Furthermore the compressed air provides a fine oil spray for lubricating cylinders, valves, compressed air controlled tools etc.
- 1.2 When used correctly and in accordance with the respective operating conditions, they maintain the performance level of pneumatic plant and increase its service life. Our special brochures covering air preparation units contain the sizes and types with all details in a clearly arranged table thus facilitating selection according to the operating requirements.
- 1.3 Plastic bowls may only be cleaned by using water, soapy water or similar products which don't affect the parts.
- 1.4 No responsibility can be accepted for damage which may result from non-observance of these instructions.

2 mounting

- 2.1 Sequence (in direction of arrow) in normal cases: filter regulator - lubricator; the distance between the air preparation unit and the consumerpoint should be as short as possible (max. 10m).
- 2.2 The units must be mounted vertically.

3 filter

- 3.1 compressed air contains water condensate, scale and rust particles etc. which attack pneumatically controlled and actuated tools such as compressed air cylinders, valves etc. and which thus have a disturbing effect on their function.
- 3.2 For this reason the purification of compressed air is an indispensable necessity and is undertaken with the aid of filters. The filtering effect depends on the pore size (normally 40µm) of the sintered filter.
- 3.3 If required, sintered filters with smaller pore size can be fitted.
- 3.4 maintenance
 1. Drain off the water condensate at regular intervals and clean the sintered filter if it is dirty.
- 3.5 disassembly
 1. Undo the screw fitting and remove the bowl. Undo the attachment nut from the sintered filter; take out the sintered filter.
 2. Place the sintered filter in a solvent (e.g. petrol, trichlorethene etc.), agitate well and dry.
 3. Ensure that the seal is perfectly seated.

4 pressure regulator

- 4.1 The system pressure in a compressed air installation fluctuates according to the size of the compressor (e.g. 6-10 or 10-16 bar etc.).
- 4.2 Pressure regulators reduce this fluctuating system pressure (upstream pressure) to the desired working pressure (downstream pressure) and maintain it constant.
- 4.3 Pressure regulators with relieving are used for maintenance devices.
- 4.4 Pressure regulators with relieving offer the advantage that the downstream pressure can be reduced, without relieving off air, by turning back the regulating screw.
- 4.5 In addition, the blow-backs which occur in pneumatic controls are vented to atmosphere by the reverse control (which at the same time can also be regarded as a safety valve) thus protecting the pressure gauge.
- 4.6 pressure adjustment
 1. Before putting the pressure line into operation, relieve the regulator by fully unscrewing the regulating screw.
 2. Rotate the regulating screw clockwise until the pressure gauge on the pressure regulator indicates the required pressure.

5 lubricator

- 5.1 The compressed air is enriched with a fine oil mist by the lubricator so that in this state it thus effects continuous and reliable lubrication of the pneumatically controlled compressed air tools, cylinders, valves etc.
- 5.2 **information:** minimal operating pressure 1bar
- 5.3 dosage
 1. Set the amount of oil (drops per minute) on the dosaging screw as required during operation.
 2. The number of drops can be seen in the sight-glass.
- 5.4 oil types and oil filling
 1. Remove the oil filler screw, fill the bowl to the upper mark (approx. 2/3 full).
 2. Firmly refit the filler screw.
 3. It is possible to refill the oil during operation; the air supply need not be shut off.
 4. type of oil CL32 according to DIN 51517-ISOVG32
 5. In special cases refer to the technical lubrication service of the oil companys whose engineers are always available to give free advice on all lubrication problems without obligation.
- 5.5 For special applications drop caps made of brass are available.
- 5.6 The filling oil may not be thinned or blended with any fluid that contains softener such as alcohol, "Glystantin" (antifreeze) etc..

6 max. operating pressure and operating temperature

- 6.1 Maximum operating pressure and operating temperature can be seen in the corresponding datasheets.

The latest instructions can be found under www.stasto.eu in our STASTO Store.

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