

Reducing Station Type 707



Application

Supply of pneumatic measuring and control equipment with a constant supply air pressure from 0.2 to 6 bar

The equipment is used to supply pneumatic automation equipment with compressed air at a reduced and constant pressure. The reducing stations are designed for:

Input (upstream pressure): 2.5 to 16 bar

Output (downstream pressure)

Supply air of 1.4 bar for equipment used in systems with standardized pneumatic signals. For other applications, adjustable from 0.2 to 4 bar and special versions adjustable from 2.5 to 6 bar.

Depending on the respective version, the reducing stations comprise the following components:

- One Type 50 ES Pressure Reducing Valve with set point values adjustable from 0.2 to 4 bar (special version for 2.5 to 6 bar)
See Data Sheet T 2555 E for details.
- One fine air filter with condensate drain plug
- One upstream pressure gauge for 0 to 10 or 0 to 16 bar
- One downstream pressure gauge for 0 to 4 bar (special version 0 to 6 bar)
- One shut-off or changeover valve

Versions (Fig. 2)

The versions are assigned for different operating conditions and are distinguished mainly by their maximum air output capacity and availability during service (e.g. filter exchange, condensate drain, etc.).

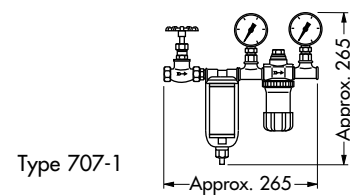
Versions available are:

Type 707-1: With pressure reducing valve, connection G $\frac{3}{8}$

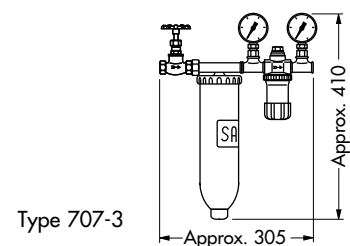
Type 707-3: With pressure reducing valve, connection G $\frac{1}{2}$



Fig. 1 · Type 707-1 Reducing Station



Type 707-1



Type 707-3

Fig. 2 · Versions and dimensions of the Type 707 Reducing Station

Technical data

Type	707-1	707-3
Consisting of	Type 50 ES Pressure Reducing Valve Fine air filter Upstream pressure gauge Downstream pressure gauge Shut-off valve	
Upstream pressure	Min.	2.5 bar, but at least 1.2 times the adjusted set point value
	Max.	16 bar
Air output capacity at operating press.(apprx)	2 m ³ /h	5 m ³ /h
Output	Adjustable from 0.2 to 4 bar ¹⁾	
Permissible ambient temperature	0 to 50 °C	

¹⁾ 2.5 to 6 bar on request

Note: All pressures are pressure values p_e in bar (gauge) if not specified otherwise.

Application of the reducing stations

Type 707-1 is the smallest station of the series. It is primarily used in small pneumatic systems or with single devices.

Type 707-3 is largely identical with Type 707-1, however, it has a G 1/2 connection, is equipped with a larger fine air filter and exhibits an increased air output capacity.

Ordering text

Reducing Station Type 707- ...

Output 0.2 to 4 or 2.5 to 6 bar

Specifications subject to change without notice.



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