Service Unit Type 3999-009X

for conditioning and control of compressed air

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General

The reliability and efficiency of a pneumatic instrumentation and control system depends largely on the condition of the supply air. Supply air conditioning to meet the operational requirements is essential for the functional reliability of pneumatic components.

The Type 3999-009X Service Unit is used for the compressed air supply of pneumatic transmitters, controllers and valve positioners. The unit removes dirt, water and oil from the compressed air. At the same time, the air pressure is regulated to a constant output pressure.

The Type 3999-0096 Filter Regulator (see Data Sheet T 3999-8 EN) can be used for the compressed air supply of pneumatic volume boosters for large actuators.

Versions

Service unit with bracket

comprising coarse filter, pressure reducer, pressure gauge and submicro filter,

condensate drainage over float valves Order no. 3999-0090 condensate drainage over solenoid valves Order no. 3999-0093

Service unit on mounting plate

comprising manual spool valve, coarse filter, pressure reducer, pressure gauge, submicro filter and pressure switch, condensate drainage over float valves
Order no. 3999-0091 condensate drainage over solenoid valves Order no. 3999-0094

Service unit on mounting plate

comprising manual spool valve, coarse filter, pressure reducer, pressure gauge, submicro filter, differential pressure switch and pressure switch,

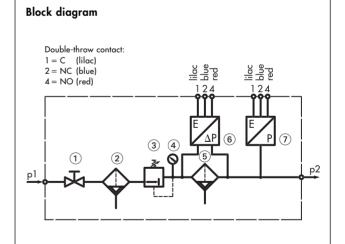
condensate drainage over float valves Order no. 3999-0092 condensate drainage over solenoid valves Order no. 3999-0095

Principle of operation

The compressed air flows across a manual spool valve ① and a coarse filter ② with a maximum input pressure p1 of 16 bar. The air is cleaned of coarse dirt particles larger than 8 µm as well as water and oil, while the pressure is reduced to a constant output pressure p2 of 0.5 to 10 bar by a pressure reducer ③. The output pressure p2 is indicated on a pressure gauge ④ and monitored by a pressure switch ⑦. The prefiltered air flows across a submicro filter ⑤, retaining dirt particles larger than 0.01µm. The function of the submicro filter ⑤ is monitored by a differential pressure switch ⑥.

The coarse filter ② and the submicro filter ③ are fitted with either float valves or solenoid valves. The float valves open automatically when a defined liquid level is reached. In the event of failure, the condensate receptacle can be drained manually by unscrewing the drain plug. The solenoid valves must be opened by an external control signal at regular intervals, depending on the degree of contamination of the compressed air.





- ① Manual spool valve (Types -0091/-0092/-0094/-0095)
- ② Coarse filter
- 3 Pressure reducer
- 4 Pressure gauge
- Submicro filter
- 6 Differential pressure switch (Types -0092/-0095)
- 7 Pressure switch (Types -0091/-0092/-0094/-0095)

Fig. 2

T 3999-6 EN

Technical data

Attachment Pipe or wall mounting Mounting position Upright, condensate drainage downwards Ambient temperature	General data			
Mounting position Upright, condensate drainage downwards			Pine or wall mounting	
Ambient temperature			1	
Degree of protection Connection Input G 3/8 female (for Types -0090/-0093), G 3/8 male (for Types -0091/-0092/-0094)-0095) Output G 3/8 female (for Types -0090/-0093), Compression fitting for pipe Ø 12 mm (for Types -0091/-0092/-0094/-0095) S. 8 kg (for Types -0090/-0094), S. 8 kg (for Types -0091/-0094), S. 8 kg (for Types -0091/-0095) Bracket (Types -0091/-0092/-0094/-0095) Material Steel, powder-coated, gray-beige RAL 1019 Manual spool valve (Types -0091/-0092/-0094/-0095) Nominal size 3/8/8* Filter unit Version Coarse filter cartridge Submicro filter cartridge Condensate receptacle Madium Compressed air, free of corrosive particles Input pressure p1 Mox. 16 bar (max. 8 bar for solenoid valves with 24 V DC) Output pressure p2 O.5 10 bar, adjustable Filter mesh Coarse filter cartridge Submicro filter cartridge Output pressure p2 O.5 10 bar, adjustable Filter mesh Coarse filter cartridge Submicro filter cartridge O.5 10 bar, adjustable Filter mesh Coarse filter cartridge Submicro filter c			1 4	
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	Switching capa	acity	Max. 250 V AC, 5 A	
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Solenoid valves (Types -0093/-0094/-0095)				
Rated signal 24 V DC (for p1 = max. 8 bar), AC rated signal (for p1 = max. 16 bar) on request	Rated signal		24 V DC (for p1 = max. 8 bar), AC rated signal (for p1 = max. 16 bar) on request	
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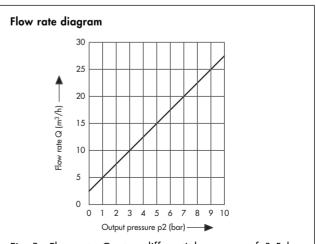
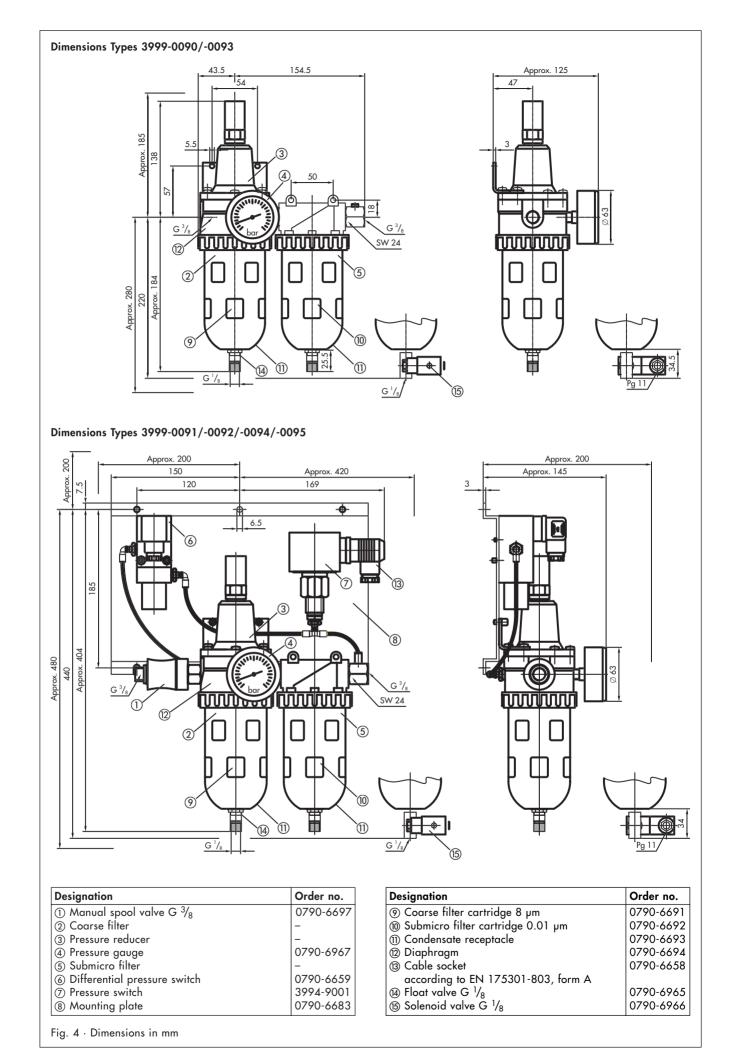


Fig. 3 · Flow rate Q at a differential pressure of 0.5 bar between input pressure p1 and output pressure p2



Installation instructions

Ambient conditions

The service unit may be installed only in rooms with an ambient temperature of +5 to $+50\,^{\circ}$ C. It should be installed preferably in the coolest location in the room so that no water can condense in the output pressure pipe.

Mounting position

The service unit must be installed in the output pressure pipe with the condensate drainage in the upright position facing downwards. It must be installed at the lowest point of the output pressure pipe so that condensate can flow always to the service unit.

Output pressure pipe

The output pressure piping must be adequately sized so that the pressure loss is negligible.

Operation



The maximum permissible input pressure p1 of 16 bar must not be exceeded!

Adjustment instructions

The following adjustment instructions apply to the versions with pressure switch and differential pressure switch:

Differential pressure switch

The differential pressure switch is adjusted by the manufacturer to a set point of 0.25 bar.



This adjusted set point must not be changed!

Pressure switch

The set point of the pressure switch can be adjusted between 0.5 to 6 bar (see Fig. 5). The set point is adjusted using a screwdriver by turning the stem ①, after unscrewing the threaded pin ②. The set point is indicated on the scale ③. The stem ① must secured by retightening the threaded pin ②.

Maintenance instructions

The following maintenance must be performed at regular intervals, dependent on the degree of contamination of the compressed air (see Fig. 4):

Filter cartridges

Check coarse filter cartridge ③ and submicro filter ⑩ for contamination and replace when heavily contaminated. For the versions with differential pressure switch ⑥, contamination of the submicro filter cardridge ⑩ is monitored continuously and automatically registered as contamination causes the pressure to drop.

Condensate drainage

Check functioning of the automatic drainage of the flow valve (4) or the solenoid valves (5). In case of failure, the condensate receptacles (1) with float valves (4) can be drained manually by unscrewing the drain plugs. The condensate receptacles (1) must be resealed afterwards by retightening the drain plugs.

(Specifications subject to change without notice.)

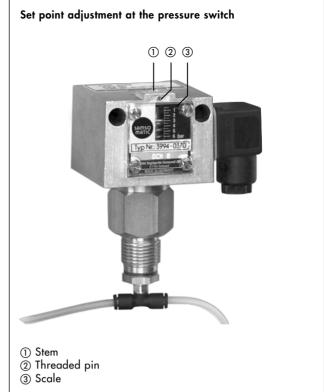


Fig. 5

SAMSOMATIC GMBH

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