Information Sheet for Valve Accessories
Positioners · Limit Switches · Solenoid Valves · Accessories

Selection and Application

Edition September 2014

Information Sheet T 8350 EN

Overview

This Information Sheet contains information on transfer devices for pneumatic control valves and on devices for supplying pneumatic control instruments with compressed air. It outlines the features and main technical data of these devices.

The following groups of devices are described:

Digital and analog positioners (see section 1)

Positioners ensure a predetermined assignment of the valve position to the control signal and supply a corresponding output signal pressure.

Limit switches (see section 2)

Limit switches consist of two inductive, electric or pneumatic contacts. They issue a signal whenever an adjusted limit is exceeded or not reached.

Solenoid valves (see section 3)

Solenoid valves convert binary signals issued by electric control equipment into binary pneumatic control signals.

Accessories (see section 4)

- Lock-up valve
- Remote adjuster
- Supply pressure regulator
- Filter regulator
- Service unit
- Reversing amplifier
- Quick exhaust valve
- Pneumatic volume booster

1 Positioners

Principle of operation

Positioners ensure a predetermined assignment of the valve (controlled variable x) to the input signal (reference variable w). They compare the control signal issued by pneumatic or electric automation equipment (controller, control station, process control system) to the position or opening angle of the control valve and supply a corresponding output signal pressure (p_{st}, output variable y). Positioners are often used as servo-booster as they convert low-energy signals into strong proportional signal pressures up to the maximum supply pressure (6 bar/90 psi). They can be used in standard and split-range operation.

Pneumatic and electropneumatic positioners

Depending on the input signal, a distinction is made between pneumatic (p/p) and electropneumatic (i/p) positioners:

- **Pneumatic (p/p) positioners:**
  Pneumatic positioners accept an input signal of 0.2 to 1 bar (3 to 15 psi) and issue an output signal pressure (p_{st}) of maximum 6 bar (90 psi).
- **Electropneumatic (i/p) positioners:**
  Electropneumatic positioners use an analog DC signal of 0/4 to 20 mA or 1 to 5 mA as the input variable and issue an output signal pressure (p_{st}) up to maximum 6 bar (90 psi).

Digital positioners

SAMSON digital positioners are single-acting or double-acting positioners for attachment to pneumatic linear or rotary actuators.

Due to their digital signal processing technology, these positioners have the following advantages over conventional positioners:

- Simple operation
- LCD with rotatable reading direction
- Automatic zero and span calibration during initialization (except for Type 3730-0)
- Automatic detection of faults in the actuator
- Direction of action independent of mounting position
- Continuous monitoring of zero point
- Low air consumption
- Permanent storage of all parameters in EEPROM (protected against power failure)

Digital positioners can be fitted with additional functions:

- Inductive limit switches
- Solenoid valve
- Position transmitter
- External position sensor
- Analog input
- Binary input and output
- Forced venting
- Leakage sensor

The Types 3730-3, 3730-6 and 3731-3 Positioners also allow HART® communication between the field and process control level. The Type 3730-4 Positioner allows the integration of the final control element into a PROFIBUS® PA network, while Types 3730-5 and 3731-5 Positioners can communicate over a FOUNDATION™ fieldbus network.

Digital positioners

Fig. 1: *Type 3725 Electropneumatic Positioner*

Fig. 2: *Type 3730 Electropneumatic Positioner*

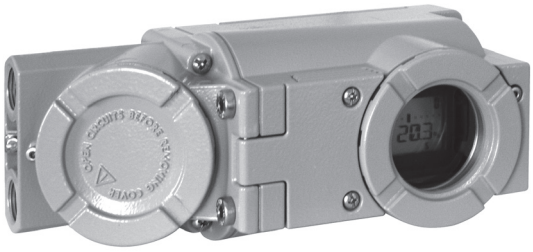


Fig. 3: *Type 3731 Ex d Positioner*

Table 1: *Data and features of digital positioners*

Type		3725	3730-1	3730-2	3730-3	3730-4
Input/output signal		i/p	i/p	i/p	i/p	i/p
For linear actuators acc. to IEC 60534-6-1		Up to 50 mm	Up to 200 mm	Up to 200 mm	Up to 200 mm	Up to 200 mm
For Type 3277 (direct attachment)		•	•	•	•	•
For linear actuators with rod-type yoke			•	•	•	•
For Type 3278 Rotary Actuator		•	•	•	•	•
For rotary actuators acc. to VDI/VDE 3845		•	•	•	•	•
Opening angles		24 to 100°	24 to 100°	24 to 100°	24 to 100°	24 to 100°
Explosion protection	Without	•	•	•	•	•
	Intrinsic safety	•	•	•	•	•
	Non-sparking apparatus		•	•	•	•
	Flameproof enclosure		• [1]	• [1]	• [1]	
	Protected by enclosure/ dust protection Zone 2x		•	•	•	•
Certification acc. to explosion protection regulations	ATEX	✓	✓	✓	✓	✓
	IECEx		✓	✓	✓	✓
	CSA	✓	✓	✓	✓	✓
	FM		✓	✓	✓	✓
	GOST			✓	✓	✓
	JIS			✓		
	NEPSI		✓	✓	✓	✓
	CCoE			✓	✓	✓
	INMETRO		✓	✓	✓	✓
	KOSHA			✓	✓	
Communication					HART COMMUNICATION PROTOCOL	PROFIBUS
Diagnostics				EXPERTplus	EXPERTplus	EXPERTplus
Reference variable	0.2 to 1 bar (3 to 15 psi)					
	4 to 20 mA	•	•	•	•	
	0 to 20 mA					
	1 to 5 mA					
	Also split-range	•	•	•	•	•
Options	Limit contact		✓	✓	✓	✓
	Solenoid valve			✓	✓	✓
	Position transmitter			✓	✓	
	External position sensor			✓	✓	✓
	Analog input				✓	
	Binary input			✓	✓	✓
	Binary output					
	Forced venting					
	Leakage sensor			✓	✓	
Configuration and operation using TROVIS-VIEW software				•	•	•
Operating controls		– Display – 3 capacitive keys – Volume restriction	– Display – Rotary pushbutton – Volume restriction	– Display – Rotary pushbutton – Volume restriction – Slider switch – Key	– Display – Rotary pushbutton – Volume restriction – Slider switch – Key	– Display – Rotary pushbutton – Volume restriction – Slider switch – Key
Refer to Data Sheet ...		▶ T 8394 EN	▶ T 8384-1 EN	▶ T 8384-2 EN	▶ T 8384-2 EN ▶ T 8384-3 EN	▶ T 8384-4 EN

[1] Flameproof enclosure in combination with Type 3770 Field Barrier

3730-5	3730-6	3731-3	3731-5	Type	
i/p	i/p	i/p	i/p	Input/output signal	
Up to 200 mm	Up to 200 mm	Up to 200 mm	Up to 200 mm	For linear actuators acc. to IEC 60534-6-1	
•	•	•	•	For Type 3277 (direct attachment)	
•	•	•	•	For linear actuators with rod-type yoke	
•	•	•	•	For Type 3278 Rotary Actuator	
•	•	•	•	For rotary actuators acc. to VDI/VDE 3845	
24 to 100°	24 to 100°	24 to 100°	24 to 100°	Opening angles	
•	•			Without	Explosion protection
•	•			Intrinsic safety	
•	•			Non-sparking apparatus	
	• [1]	•	•	Flameproof enclosure	
•	•	•	•	Protected by enclosure/ dust protection Zone 2x	
✓	✓	✓	✓	ATEX	Certification acc. to explosion protection regulations
✓	✓	✓	✓	IECEx	
✓		✓	✓	CSA	
✓		✓	✓	FM	
✓	✓	✓	✓	GOST	
		✓	✓	JIS	
✓		✓	✓	NEPSI	
				CCoE	
✓		✓	✓	INMETRO	
✓			✓	KOSHA	
FOUNDATION	HART COMMUNICATION PROTOCOL	HART COMMUNICATION PROTOCOL	FOUNDATION	Communication	
EXPERTplus	EXPERTplus	EXPERTplus	EXPERT+	Diagnostics	
				0.2 to 1 bar (3 to 15 psi)	Reference variable
	•	•		4 to 20 mA	
				0 to 20 mA	
				1 to 5 mA	
•				Also split-range	
✓	✓			Limit contact	Options
✓	✓			Solenoid valve	
	✓	✓		Position transmitter	
✓	✓			Ext. position sensor	
				Analog input	
✓	✓	✓	✓	Binary input	
		✓		Binary output	
	✓	✓	✓	Forced venting	
✓	✓			Leakage sensor	
•	•	•	•	Configuration and operation using TROVIS-VIEW software	
– Display – Rotary pushbutton – Volume restriction – Slider switch – Key	– Display – Rotary pushbutton – Volume restriction – Slider switch – Key	– Display – Rotary pushbutton	– Display – Rotary pushbutton	Operating controls	
▶ T 8384-5 EN	▶ T 8384-6 EN	▶ T 8387-3 EN	▶ T 8387-5 EN	Refer to Data Sheet ...	

Fig. 4: *Type 3730-0 Electropneumatic Positioner*

Fig. 5: *Type 3766 Pneumatic Positioner*

Fig. 6: *Type 4763 Electropneumatic Positioner*

Table 2: *Data and features of analog positioners*

Type	3730-0	3766	3767	4763	4765
Input/output signal	i/p	p/p	i/p	i/p	p/p
For linear actuators acc. to IEC 60534-6-1	Up to 200 mm	Up to 120 mm	Up to 120 mm	Up to 90 mm	Up to 90 mm
For Type 3277 (direct attachment)	•	•	•		
For linear actuators with rod-type yoke	•	•	•	•	•
For Type 3278 Rotary Actuator		•	•		
For rotary actuators acc. to VDI/VDE 3845		•	•		
Opening angles		70 to 90°	30 to 90°		
Explosion protection					
Without	•	•	•	•	
Intrinsic safety	•	•	•	•	
Flameproof enclosure	• [1]	• [2]	• [1]	• [1]	• [2]
Non-sparking apparatus	•	•	•	•	
Protected by enclosure/ dust protection Zone 2x	•				
Certification acc. to explosion protection regulations					
ATEX	✓	✓	✓	✓	
IECEx		✓	✓		
CSA	✓	✓	✓	✓	
FM	✓	✓	✓	✓	
GOST	✓	✓	✓	✓	
JIS	✓		✓		
NEPSI					
CCoE					
INMETRO	✓			✓	
KOSHA			✓	✓	
Reference variable					
0.2 to 1 bar (3 to 15 psi)		•			•
4 to 20 mA	•		•	•	
0 to 20 mA			•	•	
1 to 5 mA			•		
Also split-range	•	•	•	•	•
Can be converted to p/p or i/p positioner		•	•	•	•
Options: Limit contact		✓	✓		
Options: Solenoid valve		✓	✓		
Options: Pressure gauge		✓	✓	✓	✓
Operating controls	– DIP switches – Potentiometer – Volume restriction	– Adjustment screws (span, zero, P range) – Volume restriction	– Adjustment screws (span, zero, P range) – Volume restriction	– Adjustment screws (zero, P range) – Volume restriction	– Adjustment screws (zero, P range) – Volume restriction
Refer to Data Sheet ...	▶ T 8384-0 EN	▶ T 8355 EN	▶ T 8355 EN	▶ T 8359 EN	▶ T 8359 EN

[1] Flameproof enclosure in combination with Type 3770 Field Barrier

[2] Flameproof enclosure in combination with Type 6116 i/p Converter

TROVIS-VIEW Configuration and Operator Interface software

A uniform user interface that allows users to configure and parameterize various SAMSON devices using device-specific database modules.

Data are transmitted between the TROVIS-VIEW software and the SAMSON device either directly or indirectly using a memory pen or memory module. A direct connection enables both online and offline operation. This means that data can be changed in the device immediately, or they can be saved on the PC first and later downloaded to the device on site.

The device-specific modules contain a database that provides the characteristic properties of each device type, such as parameters, data points, user levels etc.
Refer to Data Sheet ▶ T 6661 EN.

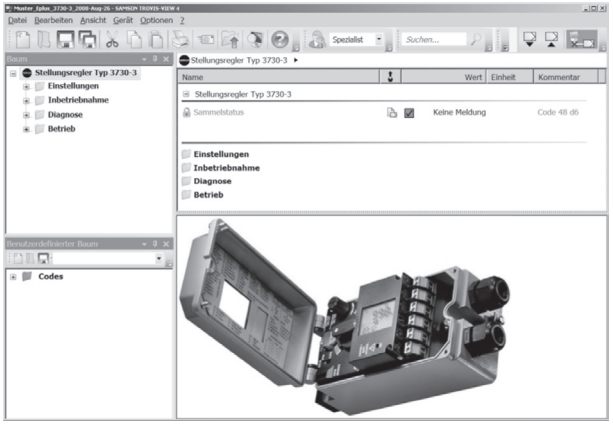


Fig. 7: *TROVIS-VIEW software*

EXPERTplus valve diagnostics for Series 3730 and 3731 Positioners

Positioner firmware to detect potential valve faults and with maintenance recommendations.
The EXPERTplus valve diagnostics can detect faults and provide predictive, status-oriented maintenance recommendations for pneumatic control valves. The full scope of diagnostic functions is completely integrated into the positioner.
EXPERTplus is integrated into the TROVIS-VIEW software, allowing users to access, read and edit the diagnosis. It is easy to learn.
EXPERTplus supports FDT/DTM and EDD.

Refer to Data Sheets ▶ T 8389 EN and ▶ T 8389-1 EN.

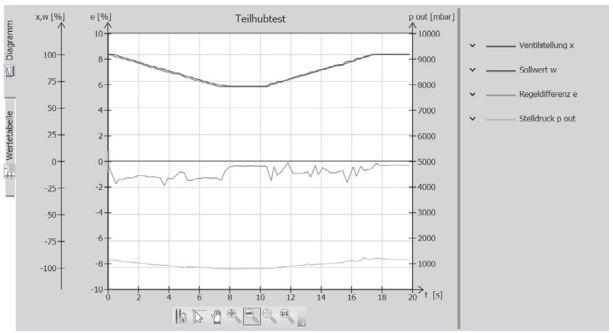


Fig. 8: *Partial stroke test (PST)*

Examples of attachment

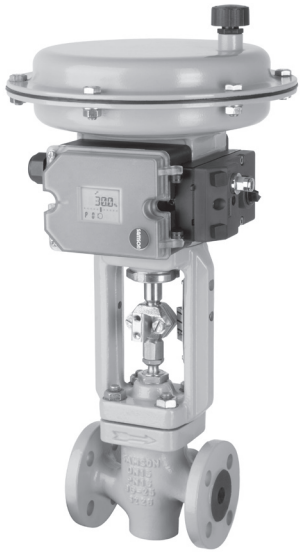


Fig. 9: *Type 3725 Electropneumatic Positioner Direct attachment to Type 3277 Actuator*

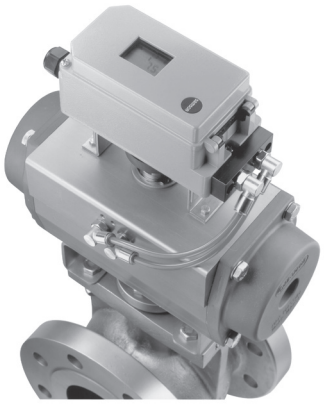


Fig. 10: *Type 3730-1 Electropneumatic Positioner Attachment to rotary actuators according to VDI/VDE 3845*

Fig. 11: *Type 4765/6116 Ex d Positioner Attachment to NAMUR rib*

2 Limit switches

Limit switches issue a signal when an adjusted limit is exceeded or not reached. This signal is suitable for initiating visual or audible alarms as well as pilot valves or other switching units. Moreover, the limit switches can be connected to central control or alarm systems.

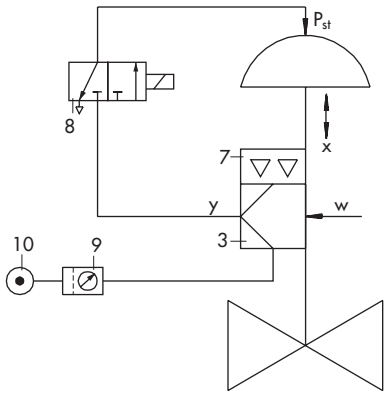
The installed limit contacts are either:

- Inductive
- Electric or
- Pneumatic

It is possible to override the limit contacts. They can be adjusted to be either a NC or NO contact. A maximum of three contacts can be used in limit switches.

They can be attached to control valves with linear actuators or directly to rotary actuator as well as pneumatic and electropneumatic positioners. The limit switch is linked axially over the shaft of rotary actuators or linked over a lever to linear actuators.

An optional solenoid valve allows the monitored actuator also to be controlled.



3 Positioner
7 Limit switch
8 Solenoid valve
9 Supply pressure regulator
10 Supply air
w Set point
x Controlled variable
y Manipulated variable

Fig. 12: *Hook-up of a pneumatic actuator with positioner, limit switch and solenoid valve*

Fig. 13: *Type 4746-x Inductive Limit Switch*

Fig. 14: *Type 3768 Inductive Limit Switch*

Fig. 15: *Type 3738 Electronic Limit Switch*

Fig. 16: *Type 3776 Limit Switch*

Fig. 17: *Type 4747 Limit Switch*

Table 3: *Data and features of limit switches*

Type		4746	3768	3738-20	3738-50	4744	4747	3776
Rated travel	mm	7.5 to 180	7.5 to 120	7.5 to 200	7.5 to 200	7.5 to 150	0 to 30/200	7.5 to 120
Opening angles	Degree	–	0 to 90	0 to 30/170	0 to 30/170	–	0 to 100	0 to 100/180
Limit contacts	Inductive	•	•				•	•
	Electric	•		•	•	•	•	•
	Pneumatic	•						
Explosion protection	Without	•	•	•	•			•
	Intrinsic safety	•	•	•	•		• [1]	•
	Flameproof enclosure					•	•	
Communication					FOUNDATION			AS interface module with bus connection
Refer to Data Sheet ...		▶ T 8365 EN	▶ T 8356 EN	▶ T 8390 EN	▶ T 8390-5 EN	▶ T 8367 EN	▶ T 4747 EN	▶ T 3776 EN

[1] Planned

Examples of attachment

Fig. 18: *Type 4747 Limit Switch, attachment to a NAMUR rib*

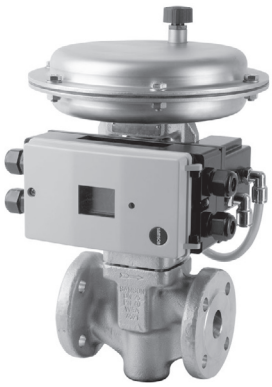


Fig. 19: *Type 3738-20 Electronic Limit Switch, attachment to Type 3241-1 Control Valve*

Fig. 20: *Type 4744-2 Limit Switch on a Type 3323 Three-way Valve*

Fig. 21: *Type 3738-20 Electronic Limit Switch, mounted on a piston actuator*

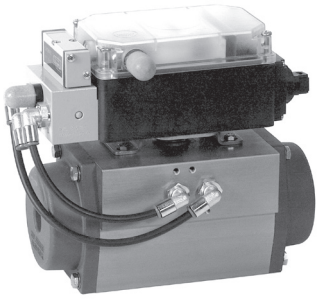


Fig. 22: *Type 3776 Limit Switch for rotary actuators according to VDI/VDE 3845*

3 Solenoid valves

Solenoid valves convert binary signals issued by electric control equipment into binary pneumatic control signals which close or open the control valve.

The principle of operation is similar to an electropneumatic converter unit (e/p converter) and a valve configuration corresponding with the valve's switching function. Intrinsically safe, low-power binary signals issued by automation equipment or fieldbus systems can be used for controlling purposes.

3/2, 5/2, 5/3 or 6/2-way functions can be implemented depending on the solenoid valve version. Different switching functions, flow rates and connection types allow the solenoid valve to be tailor-made for the specific task.

Fig. 23: *Type 3701 Solenoid Valve*

Fig. 24: *Type 3963 5/2-way Solenoid Valve*

Fig. 25: *Type 3967 Solenoid Valve with NAMUR interface (¼ NPT)*

Fig. 26: *Type 3966 Solenoid Valve*

Fig. 27: *Type 3962 Solenoid Valve, Ex d (Ex em)*

Table 4: *Data and features of solenoid valves*

Type		3701	3963	3967	3962	3966
Ex d/Ex em pilot valve					•	
Switching function		3/2 · 5/2	3/2 · 5/2 · 5/3 · 6/2	3/2	3/2 · 5/2 · 5/3 · 6/2	3/2
For linear actuators acc. to IEC 60534-6-1		•	•	•	•	•
For Type 3277 (direct attachment)			•	•		•
For linear actuators with rod-type yoke		•				
For rotary actuators acc. to VDI/VDE 3845		•	•	•	•	•
Nominal signal	V DC V AC	6/12/24 24/48/115/230	6/12/24 24/48/115/230	6/12/24 –	24/115/230 24/115/230	6/12/24/120 120/240
Supply air		1.4 to 6 bar (20 to 90 psi)	1.4 to 6 bar (20 to 90 psi)	1.4 to 10 bar (20 to 145 psi)	1.4 to 10 bar (20 to 145 psi)	1.4 to 6 bar (20 to 90 psi)
Explosion protection	Intrinsic safety	•	•	•		• [1]
	Flameproof enclosure				•	•
	Encapsulation				•	
Certification acc. to explosion protection regulations	ATEX	✓	✓	✓	✓	✓
	IECEx			✓	✓	✓[1]
	CSA	✓	✓			
	FM	✓	✓			✓
	GOST	✓	✓	✓		✓
	CEPEL				✓	
	NEPSI		✓		✓	
SIL safety function		•	•	•		
Refer to Data Sheet ...		▶ T 3701 EN	▶ T 3963 EN	▶ T 3967 EN	▶ T 3962-5 EN	▶ T 3966 EN

[1] Planned

4 Accessories

4.1 Type 3709 Pneumatic Lock-Up Valve

Pneumatic lock-up valves shut off the signal pressure line either when the air supply falls below an adjusted value or upon complete air supply failure. As a result, the pressure in the actuator is blocked. The actuator remains in its last position until the defect is eliminated.

Fig. 28: *Type 3709-1 Pneumatic Lock-up Valve*

Fig. 29: *Type 3709-4 Pneumatic Lock-up Valve*

Fig. 30: *Type 3709-5 Pneumatic Lock-up Valve*

Fig. 31: *Type 3709-6 Pneumatic Lock-up Valve*

Table 5: *Data and features of lock-up valve*

Type 3709	-1	-2	-4	-5	-6	-7	-8
Supply air [bar] max.	12	12	6	6	6	6	6
Signal pressure [bar] max.	6	6	6	6	6	6	6
K_{VS} coefficient approx.	0.2	0.2	4.3	2.0	4.3	2.0	4.3
Set point range [bar] (continuously adjustable)	0.5 to 6	0.5 to 6	1.5 to 6	1.5 to 6	1.5 to 6	1.5 to 6	1.5 to 6
Perm. ambient temperature range	–25 to +80 °C		–40 to +80 °C				
Direct attachment to positioner	•						
For linear and rotary actuators	•						
Installation in the signal pressure line in any position as required		•	•				
Inlet hook-up as required				•	•		
Attachment to single-acting rotary actuators according to VDI/VDE 3845				•	•	•	•
Sandwich-style solenoid valve						•	•
With booster			•	•	•	•	•
G connecting thread	G ¼	G ¼	G ½	G ¼	G ½	–	–
NPT connecting thread	¼ NPT	¼ NPT	½ NPT	¼ NPT	½ NPT	–	–
Inlet/outlet cross section for connection without thread	–	–	–	–	–	¼″	½″
Data sheet	▶ T 8391 EN						

4.2 Type 3759 Pneumatic Remote Adjuster

The remote adjuster is a precision pressure regulator which can be manually adjusted. It is designed for use in pneumatic control loops as either a set point adjuster or manual remote adjuster and can be used as an adjustable precision pressure regulator for measuring, calibration and testing equipment.

Versions

The Type 3759 Pneumatic Remote Adjuster (Fig. 32) is designed for the following pressure ranges:

- 0 to 0.6 bar
- 0 to 1.6 bar
- 0 to 4.0 bar
- 0 to 6.0 bar

The maximum supply pressure for all versions is 7 bar.

Technical data

Output pressure	bar	0 to 0.6	0 to 1.6	0 to 4	0 to 6
Required supply pressure	bar	1.4 to 7	2 to 7	5 to 7	7
Flow rate in l_n/h (max. air supply) with an upstream pressure of (bar)	2	2000			
	5	4000			
	7	5300			
Air consumption in l_n/h in steady state with an upstream pressure of (bar)	2	70			
	5	110			
	7	130			
Data sheet		▶ T 8510 EN			

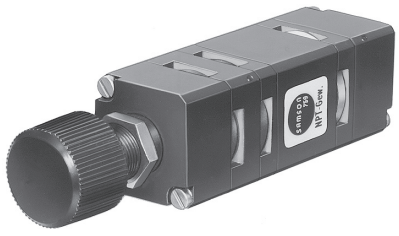


Fig. 32: *Type 3759 Pneumatic Remote Adjuster*

4.3 Type 4708 Supply Pressure Regulator

Supply pressure regulators provide pneumatic control instruments with a constant air supply. The supply pressure regulator reduces and controls the pressure of a compressed air network to the pressure adjusted at the set point adjuster.

Versions are available for installation in pipelines or control panels or for direct attachment to positioners or pneumatic actuators.

The air pressure reducing station consists of a supply pressure regulator and an upstream filter with condensate drain.

Technical data

Type	4708-xx
Set point range	0.5 to 6 bar (8 to 90 psi) or 0.2 to 1.6 bar (3 to 23 psi)
Operating pressure p_1	Max. 12 bar (175 psi)
Version	Aluminum or stainless steel body
Filter	Optionally with plastic, aluminum or stainless steel filter receptacle
Adapter	For attachment to positioners or pneumatic actuators
Options	Pressure gauge
Data sheet	▶ T 8546 EN

Version for increased air capacity: **Type 4708-45** (Fig. 34)

Fig. 33: *Type 4708-11 Supply Pressure Regulator with pressure gauge and filter*

Fig. 34: *Type 4708-45 Supply Pressure Regulator for increased air capacity*

4.4 Type 3999-0096 Filter Regulator

The filter regulator is used to supply compressed air to pneumatic volume boosters for large actuators. It cleans compressed air by removing dirt particles, water and oil. At the same time, it regulates the compressed air to a constant working pressure.

Technical data

Type	3999-0096
Set point range	Adjustable between 0.5 and 10 bar (8 and 145 psi)
Operating pressure p_1	Max. 16 bar (230 psi)
Version	With mounting bracket
Filter unit	Filter, supply pressure regulator and pressure gauge
Condensate drain	Manually over drain valve
Data sheet	▶ T 3999-8 EN

Fig. 35: *Type 3999-0096 Filter Regulator*

4.5 Type 3999-009x Service Unit for purifying and controlling compressed air

The service unit model is used to supply compressed air to pneumatic converters, controllers and positioners. It cleans the compressed air, removing any dirt particles, water and oil. In addition, it regulates the air pressure to a constant output pressure.

Technical data

Type	3999-009X
Set point range	Adjustable between 0.5 and 10 bar (8 and 145 psi)
Operating pressure p_1	Max. 16 bar (230 psi)
Version	Pipe or wall mounting
Filter unit	Coarse filter, submicro filter, pressure regulator with secondary venting, pressure gauge
Condensate drain	Automatic over float valve or solenoid valve
Options	Pressure switches or differential pressure switches, solenoid valves
Data sheet	▶ T 3999-6 EN

Fig. 36: *Type 3999-009x Service Unit*

4.6 Type 3710 Reversing Amplifier

The reversing amplifier allows double-acting pneumatic actuators to be operated using single-acting pneumatic/electro-pneumatic positioners or limit switches.

The positioner creates an output signal pressure Y_1, to which the air pressure Y_2 is added.

The reversing amplifier uses the supply pressure Z as auxiliary power. The following rule applies:

$Y_1 + Y_2 = Z$

Technical data

Type	3710
Supply pressure	Max. 6 bar (90 psi)
Connecting thread	G ¼ or ¼-18 NPT
Ambient temperature range	–50 to +80 °C (–58 to +176 °F)
Degree of protection	IP 65
Options	Pressure gauge for Y_1 and Y_2 or a pressure gauge for Y_2 in combination with Type 4708-54 Supply Pressure Regulator
Data sheet	▶ T 8392 EN

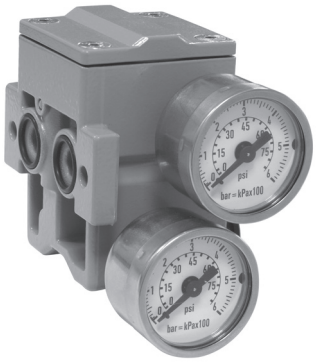


Fig. 37: *Type 3710 Reversing Amplifier with two pressure gauges*

4.7 Type 3755 Pneumatic Volume Booster

The pneumatic volume booster is used together with positioners to increase the positioning speed of pneumatic actuators. It supplies the actuator with an air flow output whose pressure corresponds exactly to the signal pressure, except that it has a much higher volume output.

Versions

Type 3755-1: Standard version with sintered polyethylene filter disk for low-noise venting

Type 3755-2: Version with flanged-on threaded exhaust port connected to a pipe

Technical data

Type	3755-1	3755-2
Required supply pressure	Max. 10 bar (145 psi)	
Signal and actuator pressure	Max. 7 bar (105.5 psi)	
Pressure ratio	Signal:output = 1:1	
Flow coefficient K_{VS}	Supply and exhaust: 2.5 m³/h	
Ambient temperature range	–40 to +80 °C (–40 to +176 °F) –55 to +60 °C (–67 to +140 °F) [1]	
Connections	G or NPT thread	
Degree of protection	IP 44	IP 66
Data sheet	▶ T 8393 EN	

[1] Optional low-temperature version

Type 3755-1, low-noise venting over sintered polyethylene filter disk:

Type 3755-2, flanged-on threaded exhaust port

Fig. 38: *Type 3755 Pneumatic Volume Booster*

Specifications subject to change without notice

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