SIEMENS 7<sup>643</sup>

Open / Closed

Open / Closed with constant pressure governor

Open / Closed with differential pressure governor

Open / Closed with ratio pressure governor









SKP15

SKP25

SKP55

SKP75

# **Actuators for gas valves**

SKPx5...

- Open / closed safety shutoff function conforming to EN 161 in combination with valves supplied by Siemens
- Damped opening (rapid closing)
- Very low power consumption
- Suitable for use with gases of gas families I...III
- Optionally with / without end switch (factory-set)
- Plug-in connection facility
- Electrical indication of operation
- Valve stroke indication
- Supplementary Data Sheets on valves (refer to «Use»)
- Models for USA on request

The SKPx5 and this Data Sheet are intended for use by OEMs which integrate the actuators in their products.

Modular concept

Actuators are designed for use with the following types of valves:

Type of valve	Medium	Data Sheet
VGG VGF	Natural gas Gases of gas families IIII	N7636
VGJ	Gases of gas families IIII	N7650
VGD2 VGD4	Natural gas Gases of gas families IIII	N7631
VRF	Biogas (with SKP15, other actuators on request)	N7633
VLF	Hot air	N7637

Actuators SKPx5 in general

The combination of actuator and valve provides the following functions:

- Safety shutoff valve (SKP15)
- Safety shutoff valve with gas pressure governor (SKP25, SKP55, SKP75)

The electrohydraulic actuators together with the valves are designed for use with gases of gas families I...III and air. They are used primarily on gas-fired combustion plant. The actuators open slowly and close rapidly. The actuator can be supplied with end switch (for indicating the fully closed position). For information about valve sizing, refer to the «Valve sizing chart» in the Data Sheet of the relevant valve.

If the actuators are used with gases other than those of gas families I...III, **Siemens AG** assumes no responsibility for the actuator's durability and life expectancy.

All types of actuators can be combined with any of these valves.

SKP15

The electrohydraulic operated gas fittings SKP15 together with VGx valves works exclusively as a safety shutoff valve (Open / Closed). They are used primarily on gasfired combustion plant. The actuators open slowly and close rapidly.

A valve stroke indication at actuator can only be delivered with end switch.

SKP25

The SKP25 operates with a gas pressure governor and controls the gas pressure according to the setpoint preselected with the setpoint spring or air pressure signal.

Its field of use is primarily forced draft gas burners

- with mechanical air / fuel ratio control (SKP25.0)
- with electronic air / fuel ratio control (SKP25.0)
- with 2-stage setpoint changeover (SKP25.2)
- with proportionate governor (SKP25.3)
- with high-pressure control up to 200 kPa (SKP25.4)
- with zero pressure governor (SKP25.6)
- with constant pressure control, but with electric pressure setpoint adjustment (SKP25.0 with AGA30.7 and SAS)

# SKP25.0 with AGA30.7 and SAS

The SKP25.0 with AGA30.7 and SAS solution enables motorized pressure setpoint adjustment

- for motorized setting or correction of the setpoint
- for atmospheric and comparable burner operating conditions, typical output modulation multistage or shifting < 1 : 5</li>
- not for gas-air ratio combined systems
   (e.g. class C in accordance with EN 12067-2)
- SKP25.0 (with AGA30.7 and SAS) must not be used in applications that require
  mechanical operating conditions higher than class 3M1 (EN 60721-3-3). Vibrations
  are not permitted. Corrective measures must be implemented on the plant in
  individual cases.

#### SKP55

The SKP55 operates with a differential pressure governor and controls a differential gas pressure according to a differential air pressure. The ratio of the differential pressures is 1-to-1 and constant across the entire air range.

Its field of use is predominantly

- combustion plant with combined heat recovery systems
- plant where pressure conditions in the burner and combustion chamber do not change in proportion to load changes
- burners with adjustable air / fuel mixing devices in the burner head
- plant with negative pressure levels on the gas or air side

#### SKP75

The SKP75 operates as a ratio pressure governor and provides control of the gas pressure depending on the pressure of the combustion air, ensuring that the adjustable gas / air ratio remains constant across the entire load range.

Its field of use is primarily modulating forced draft gas burners.

#### Warning notes



#### For additional safety notes, refer inside of Data Sheet!

To prevent injury to persons, damage to property or the environment, the following warning notes must be observed!

- Do not open, interfere with or modify the actuators!
- Any opening of the actuator, replacement of parts or modifications to the original product is the user's responsibility and carried out at his own risk
- All activities (mounting, installation and service work, etc.) must be performed by qualified staff
- When used in connection with gas, the actuators constitute part of the safety equipment
- Not suitable gases or gas components causes loss of the safety shutoff function
- Check to ensure that the impulse pipes are correctly fitted and tight (SKP25, SKP55, SKP75)
- Fall or shock can adversely affect the safety functions. Such actuators must not be put into operation, even if they do not exhibit any damage
- Each time work has been carried out (mounting, installation, service work, etc.), check to ensure that wiring is in an orderly state and make the safety checks as described in «Commissioning notes»
- If mains voltage is fed to the end switch (CPI), protective earth must be connected to the actuator via the same plug (AGA65)
- Use of connectors conforming to DIN EN 175301-803-A is mandatory
- · The connectors used must feature cable strain relief
- Solar radiation or formation of ice are not permitted!

#### SKP25.2

When using SKP25.2, relevant interference suppression measures (EMC) must be implemented on the plant side.

The magnet can reach high temperatures if activated for longer periods of time.

The SKPx5.xx1xx are supplied with the end switch factory-set.

Design of the gas train

If the available gas pressure exceeds the maximum permissible operating pressure of the valve (VGx / VRx) / actuator (refer to the Data Sheet of the relevant valve), it must be lowered by an upstream pressure controller. The pressure switch for lack of gas must always be fitted upstream of the valve when used in combination with the actuator.

SKP25

Installed SKP25s with overpressure protection on the outlet side are switched off and close against the gas pressure. The SKP25 does not require an exhaust line.



#### Note!

When setting the overpressure limit, ensure it is lower than the load limit for the plant.

#### SKP25, SKP55, SKP75

The impulse pipes must be installed such that the differential pressure can be acquired with no disturbance (unfavorable flow conditions). Pressure test points must not protrude and be flush with the inside diameter of the pipe or duct wall. The impulse lines to the governor should be as short as possible, enabling the governor to respond quickly should sudden load changes occur. The inside diameter of the impulse pipes must be a minimum of 6 mm. In connection with the SKP25, the 1/4" nozzles on the outlet side of the VGx valves can be used as pressure test points (prerequisite: gas control pressure setpoint >1 kPa).

#### **CAUTION!**



Risk of gas leak!

The pressure test point must be closed again once the pressure has been measured. It is essential to check the seal is tight.

Failure to observe this information poses a risk of personal injury, property damage, and environmental harm.

#### SKP75

Installation of impulse pipes:

In the case of unsafe combustion chamber pressure pipes (e.g. resulting from potential leaks). The setting must also be checked during operation without having the combustion chamber pipe connected, especially with respect to maximum burner capacity. The impulse pipes must be fitted such that the differential pressure can be acquired with no disturbance. With gas / air ratios >3, the impulse pipes for the combustion air and the combustion chamber pressure must have an inside diameter of at least 8 mm. The impulse pipe for the combustion chamber pressure must be fitted such that the gases will cool down in the vicinity of the impulse pipe and condensing gases cannot enter the governor but will return to the combustion chamber.



#### Warning!

If there is a risk of the impulse pipes being exposed to heat, all impulse pipes must be made from suitable metal material

#### Recommendations:

- The gas pressure should be acquired at a distance of 5 times the nominal pipe size downstream from the valve
- that the lateral pressure test points on the valve should not be used for picking up the pressure.
- Considering the combustion chamber pressure:
  - If the resistance value of the combustion chamber / heat exchanger / stack system is constant, the combustion chamber pressure changes in proportion to the gas and combustion air pressure as the burner's output changes. In that case, the combustion chamber pressure need not be fed to the SKP75 as a disturbance variable. However, if the combustion chamber pressure does not change to the same extent as the gas and air pressure as this is the case in plants with flue gas fan or modulating flue gas damper the combustion chamber pressure must be fed to the SKP75 as a disturbance variable, enabling the governor to counteract.
- If the SKPx5 are operated until the end of their lifecycle, the decreasing drive
  power can result in a lower gas quantity or gas pressure on the outlet of the gas
  fitting. If the use requires a minimum pressure behind the gas fitting, the minimum
  pressure must be monitored

- Ensure that the relevant national safety regulations are complied with
- The quadratic arrangement of the fixing holes allows the actuator to be fitted in 4 different positions on the VGx valve, each step being 90° (depending on the type of VGx valve)
- The actuator can be mounted or replaced while the system is under pressure; sealing material is not required
- SKP25 / SKP55 / SKP75:

SKPx5 with pressure control function have a vent opening on the pressure governor. Measures must be taken in the application to prevent the vent opening from being blocked



#### Warning!

Condensation, formation of ice and ingress of water are not permitted. If this is not observed, there is a risk of loss of safety functions and a risk of electric shock.

• Follow the Mounting Instructions included with the actuators:

Type reference	Mounting instruction
SKP15	M7643 (74 319 0420 0)
SKP25	M7643 (A5W00000658)
SKP25 with AGA30.7 and SAS	M7643.4 (74 319 0552 0)
SKP55	M7643 (74 319 0420 0)
SKP75	M7643 (74 319 0420 0)
AGA66-IP65-Kit for SKPx5 / VGx	M7643.2 (74 319 0421 0)

#### Sealing / tightness

Check the tightness when all components are connected

#### Actuators in general

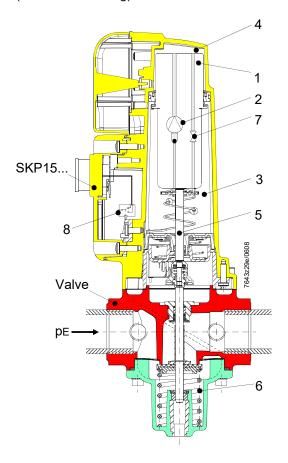
- Electrical commissioning may only be performed when the actuator is fitted to the valve; otherwise, the actuator can be damaged
- Power is supplied and connection of the end switch is made directly via a connecting cable (conforming to DIN EN 175301-803-A)
- · The end switch is factory-set
- The pump's stem must not be pulled out using the over stroke element since that part could become loose



Functioning principle of 1-stage actuator SKP15 with safety shutoff feature When power is applied, the pump will be activated and the control valve closed. Oil is now pumped from the chamber below the piston to the stroke chamber above the piston. The oil pressure causes the piston to move downward, thereby opening the valve – against the pressure of the closing spring. The pump remains energized until the closing command is given. When power is removed, or in the event of a power failure, the pump will be deactivated and the control valve opened so that the closing spring pushes the piston back. The return flow system is sized such that the counterstroke required for reaching the fully closed position is completed within about 0.6 seconds.

SKP15 complete with valve

# (Schematic drawing)



### Legend

1

- Piston
- Oscillating pump
- 3 Oil reservoir
- 4 Pressure side5 Stem
- 6 Valve's closing spring
- 7 Control valve
- 8 End switch (optional)

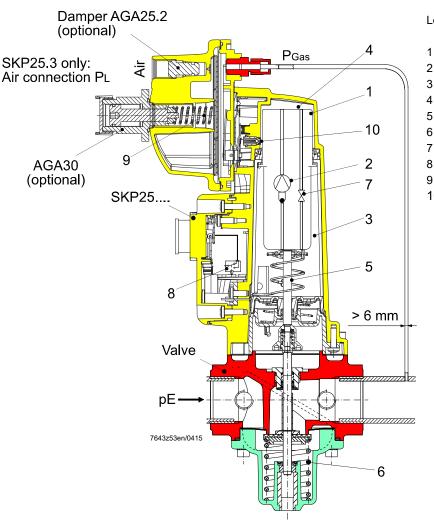
# SKP25, SKP55 and SKP75

The functioning principle (safety shutoff feature) is identical to that of the SKP15, but with the help of their pneumatic governor, the SKP25, SKP55 and SKP75 also control a bypass valve in the hydraulic circuit and thus the valve's opening position.

# **SKP25** complete with

(Schematic drawing)

valve

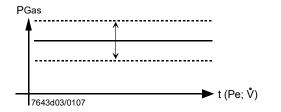


#### Legend

- Piston
- Oscillating pump
- Oil reservoir
- Pressure side
- Stem
- 6 Valve's closing spring
  - Control valve
- 8 End switch (optional)
  - Spring (setpoint adjustment)
- 10 Bypass valve

#### SKP25

Setpoint adjustment «PGas» is made manually by turning the setting screw, which acts on the setpoint spring (for setpoint springs, refer to «Accessories»).



# Legend

Pe Inlet pressure Volumetric flow

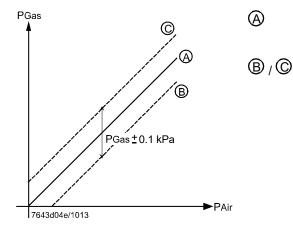
PGas 0...2.2 kPa (with built-in AGA29

standard spring), presetting 1.5 kPa

#### **SKP25.3**

The SKP25.3 operates based on the proportionate pressure principle  $\mbox{\ensuremath{\text{e}}\xspace}$  :  $\mbox{\ensuremath{\text{e}}\xspace}$  = 1:1.

By feeding fan pressure «PL» to the air connection, gas pressure «PGas» follows in a fixed 1-to-1 ratio.



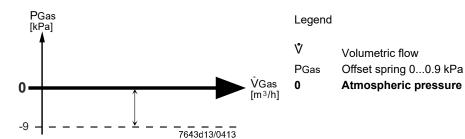
Gas / air ratio for stoichiometric combustion

# Note!

Fit cap again before measuring the combustion value and after the setting is made.

#### **SKP25.6**

SKP25.6 zero pressure governor works like SKP25.3, but enabled a larger parallel displacement towards gas pressure lowering.



# SKP25 with AGA30.7 and SAS

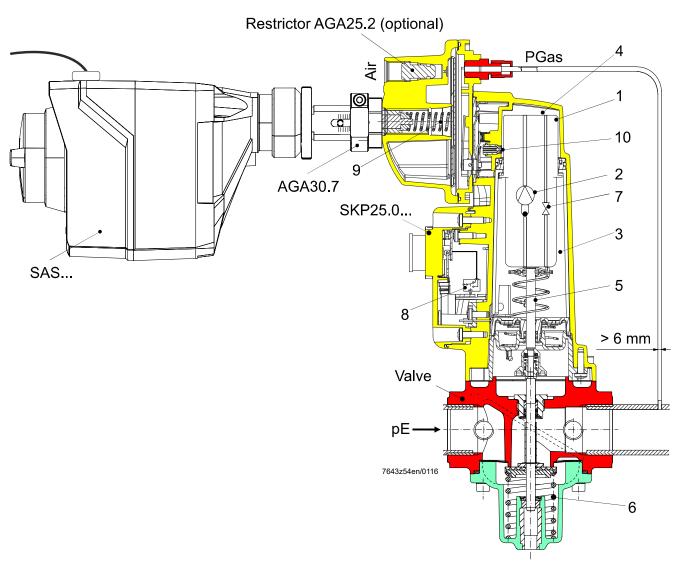
The SKP25.0 (with AGA30.7 and SAS) operates like the SKP25 constant pressure governor, but features electromotoric adjustment of the setpoint spring.

It is used primarily in

- atmospheric or comparable burners in modulating or multistage operation
- individual burners or groups of burners on industrial furnaces (gas pressure correction and disturbance variable compensation)
- not approved for gas-air ratio combined solutions (e.g. class C in accordance with EN 12067-2)

**SKP25.0** complete with valve

(simplified sectional view)



Key

1	Piston	6	Closing spring of valve
2	Oscillating pump	7	Control valve
3	Oil reservoir	8	End switch (optional)
4	Pressure side	9	Position indication
5	Stem	10	Bypass valve

# Setting example:

The low-fire pressure value (offset) is adjusted by screwing in the AGA30.7 on SKP25.0. The maximum high-fire limitation (maximum pressure (PGmax)) is set with the stem of the SAS extended via the lock nut on AGA30.7.

The desired pressure ranges (up to 32 kPa) are determined by use of the setpoint springs (AGA22, AGA23, 7421500490).

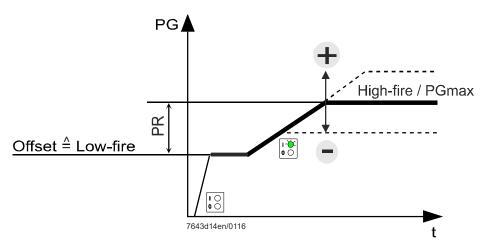


#### Note!

See Mounting Instructions A5W00000658 (M7643).

Functioning principle of the gas pressure governor with SAS motorized setpoint adjuster:

On the gas outlet side, the gas pressure governor maintains the pressure at the required setpoint. An electric signal on the SAS changes the specified setpoint (PR) proportionally. If the SAS motor stops, the outlet pressure remains constant.



SAS

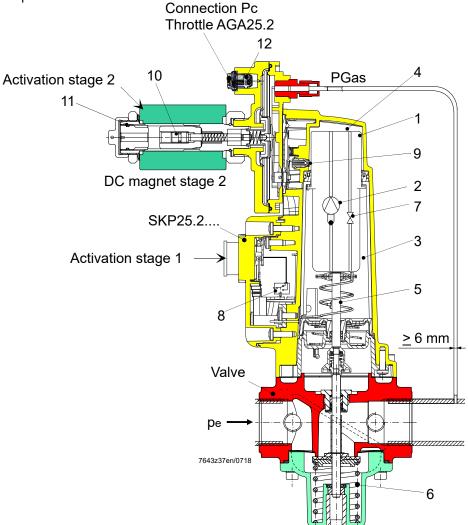
Different SAS motors can be used depending on the required function (e.g. electric control signal), see Data Sheet N4581.

#### SKP25.2

The SKP25.2 features 2-stage setpoint changeover for 2-stage gas burners.

Assembly of **SKP25.2** complete with valve

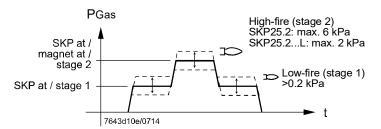
(Schematic drawing)



# Legend

- 1 Piston
- 2 Oscillating pump
- 3 Oil reservoir
- 4 Pressure side
- 5 Stem
- 6 Valve's closing spring e
- 7 Control valve
- 8 End switch (optional)
- 9 Bypass valve
- 10 High-fire screw (stage 2)
- 11 Low-fire screw (stage 1)
- 12 AGA25.2 damping throttle
  - Connection for combustion chamber pressure PC (recommended in case of PGas stage 1 <0.3 kPa)
  - If PC is not connected, a damping throttle AGA25.2 must be fitted if Pe >2 kPa (application test)

Setpoint adjustment «PGas» is made manually by turning the setting screws (10 and 11), which act on the setpoint spring.



#### Setting example:

- 1. Set the low-fire load (stage 1):
  Set the low-fire screw (11) to the required pressure value (ひ +PGas).
- 2. Set the high-fire (stage 2):
  Activate stage 2 and set the high-fire screw (10) to the required pressure value (U +PGas).
- 3. After setting the high-fire, the low-fire load need be readjusted. Every high-fire setting / readjustment changes the low-fire setting!



#### Note!

Refer to Mounting Instructions M7643.4 (74 319 0552 0) Default settings: Low-fire: 1.2 kPa / high-fire: 5.5 kPa

# SKP25.4 1)

SKP25.4 is designed to manage higher pressures of up to 200 kPa.

#### Approved as a:

- Safety shutoff valve in accordance with EN 161
- Pressurestat in accordance with EN 88-2:AC5; EN 88-2:SG10 or ISO 23551-2

# 1)

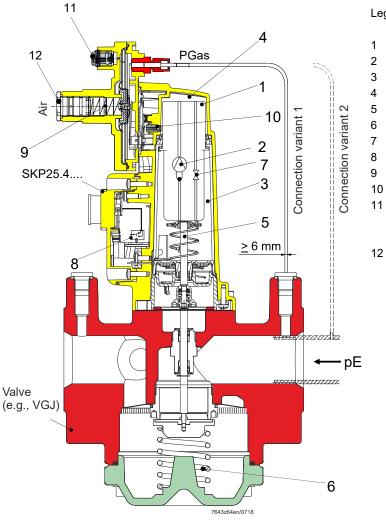
#### Note!

SKP25.4 is not approved as an overpressure safety shutoff valve (SAV).

# **SKP25.4** complete with

# (Schematic drawing)

valve

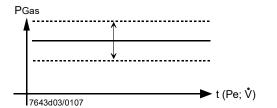


#### Legend

Piston

- Oscillating pump
- Oil reservoir
- Pressure side
- Stem
- Valve's closing spring
- Control valve
- End switch (optional)
  - Spring (setpoint adjustment)
- Bypass valve
- 1 PAir connection
  - Optional: AGA25.2 damping
  - throttle
- 2 Setting screw (setpoint
  - adjustment)

Setpoint adjustment «PGas» is made manually by turning the setting screw, which acts on the setpoint spring (for setpoint springs, also refer to «Accessories»).



# Legend

Pe Inlet pressure Volumetric flow

PGas 7...200 kPa depending on the

setpoint spring, see

Accessories

(with built-in standard spring AGA23), presetting

120 kPa

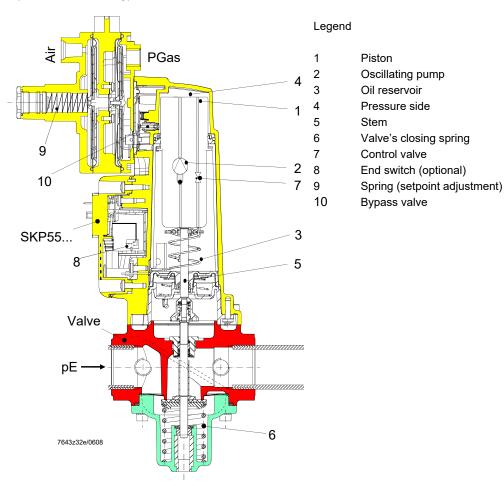
Pressure range (kPa)	Setpoint spring	Setpoint spring with fine adjustment
770	AGA22	AGA30.0
15150	AGA23	AGA30.1
20200		AGA30.2

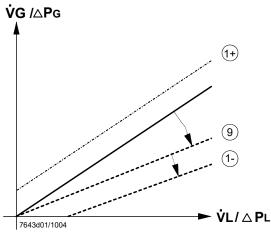
# SKP55

The SKP55 operates with a differential pressure governor and a fixed differential pressure ratio of 1-to-1.

**SKP55** complete with valve

### (Schematic drawing)



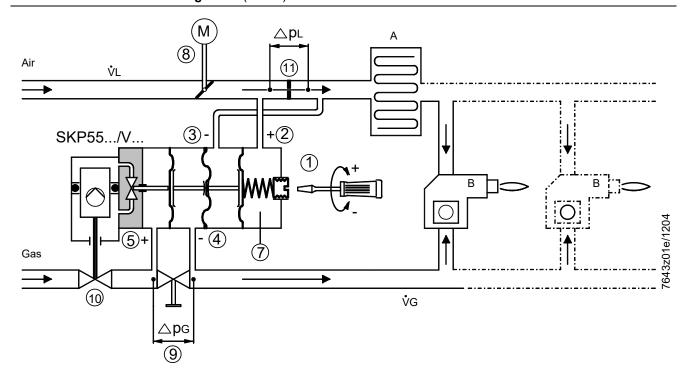


#### Example:

Adjusted gas / air ratio for burner operation with gas pressure elevation (1+). The percentage of gas pressure lowering is constant across the entire load range. Gas/air ratio adjustment with the adjustable orifice on the gas side (see position (9)).

Legend

VL Volumetric air flowVG Volumetric gas flow



# Safety notes:



Arrangement air damper ® / orifice <sup>①</sup> must always be located as shown, which means that orifice <sup>①</sup> must be installed downstream from the air damper <sup>®</sup>. Arrangement valve <sup>②</sup> (VGx) / orifice <sup>③</sup> must always be located as shown, which means that orifice <sup>③</sup> must be installed downstream from the valve <sup>③</sup>.



- Adjustment of parallel displacement of working characteristic
  - \* Check combustion values with cap fitted
- (7) Test point for air pressure (+)
- (3) Test point for air pressure (-)
- (4) Test point for gas pressure (-)
- (5) Test point for gas pressure (+)
- 6 Valve stroke indication
- Spring (parallel displacement)
- (8) Actuating device (air)
- (9) Orifice (gas)
- (10) Valve
- (11) Orifice (air)
- 2 Indication of operating state (LED)

Legend

ΔpG Differential pressure across orifice on the gas side

 $\Delta pL$  Differential pressure across orifice on the air side

A Air heating coil (recuperator)

B Burner

M Actuator

#### SKP55

Adjustment of governor on modulating burners prior to startup:

• Setting screw ① on the SKP55 should be set to a gas / air ratio curve which passes through the neutral point. The SKP55 is supplied with that factory setting. Adjustment in the field can be made as follows:

#### Note:

Fit cap again before measuring the combustion value and after the setting is made.



Turn setting screw ① in counterclockwise direction until spring ⑦ is completely loose. Shut off the gas supply upstream of the SKP55. Switch on the SKP55. Turn setting screw ① in clockwise direction until valve opens

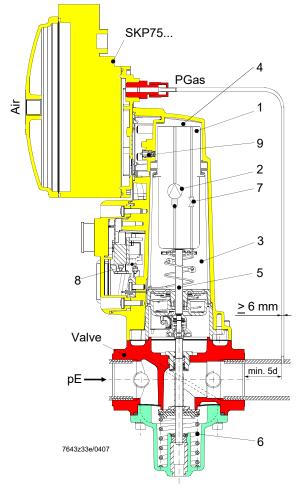
- Bring the adjustable orifice <sup>(9)</sup> to the precalculated value. That value with the same pressure differential on the air and gas side must lead to practically stoichiometric combustion
- Start the burner and run it to about 90 % of the high-fire
- Measure the combustion quality and make adjustments of the flow rate with the adjustable orifice <sup>(9)</sup> until optimum measured values are reached (fine adjustment)
- Return to low-fire operation. Check the combustion and readjust if necessary the
  position of the working characteristic with the setting screw ① on the SKP55 until
  optimum measured values are reached. Clockwise rotation
  - ightarrow more gas. Counterclockwise rotation ightarrow less gas, that is, parallel displacement of the working characteristic towards gas pressure elevation or gas pressure lowering
- Limit the air damper ® for low-fire operation
- If a significant parallel displacement of the working characteristic was required, the setting must be checked again at 90 % of the high-fire and then readjusted, if required
- Run the burner to the predefined high-fire with the help of the air damper ® and limit the actuator position for that load
- Check the flue gas values at a few positions of the load range. Make readjustments in the high-fire range with the adjustable orifice <sup>(9)</sup>, and in the low-fire range with setting screw <sup>(1)</sup> on the governor of the SKP55.

#### SKP75

The SKP75 operates with a ratio pressure governor and an adjustable gas / air ratio.

**SKP75** complete with valve

(Schematic drawing)



#### Legend

- 1 Piston
- 2 Oscillating pump
- 3 Oil reservoir
- 4 Pressure side
- 5 Stem
- 6 Valves closing spring
- 7 Control valve
- 8 End switch (optional)
  - Bypass valve

Adjustment of governor on modulating burners

- Start the burner and run it to about 90 % of the high-fire
- Return to low-fire operation, check the CO2 or O2 content of the flue gases. If
  necessary, readjust position of the working characteristic with setting screw ②/
  until optimum measured values are attained
- Limit the air damper position for low-fire operation

Meaning of setting screw markings:

- More gas
- Less gas

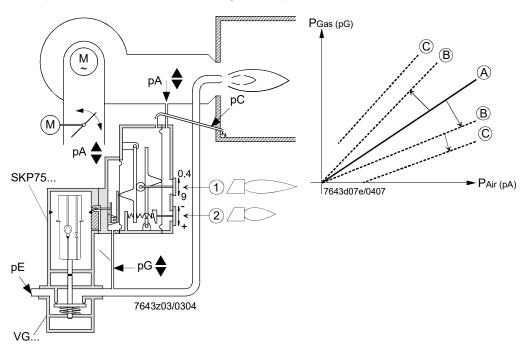
If a significant parallel displacement of the working characteristic was required to obtain optimum CO2 or O2 values in low-fire operation, the adjustment of the pressure ratio at high-fire or 90 % of the high-fire must be checked again and readjusted, if required.

- Run the burner to the required output and limit the high-fire air damper position
- Check the flue gas values at various positions of the load range

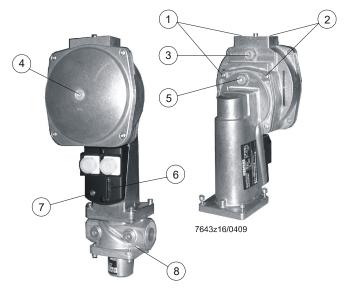
If readjustments are required:

- Use setting screw ① / «PGAS» / «PAIR» in the high-fire range

If the gas / air pressure ratio lies outside the setting range, an orifice in the gas or air flow can be used to adjust the pressure at the test points on the burner side. Prerequisite is that there is a sufficient gas or air pressure reserve on the inlet side.



- ① Setting and display of the gas / air ratio
- Setting and display of parallel displacement of the working characteristic
- (3) Test point for combustion chamber pressure
- Test point for air pressure
- (5) Test point for gas pressure
- 6 Valve stroke indication
- Operation indicator (LED)
- (8) Valve

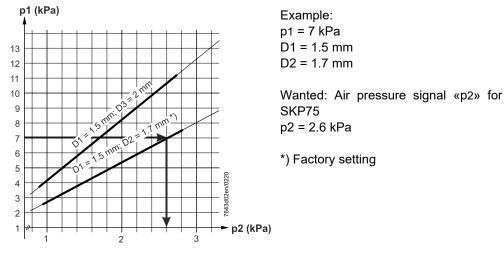


**Function** 

If the air pressure (fan pressure) exceeds the maximum value of

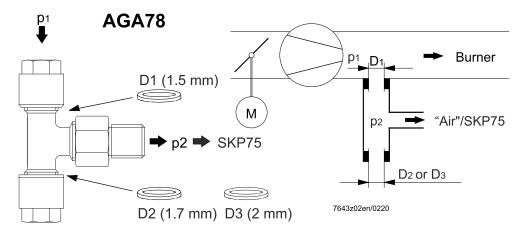
- 3 kPa with a PGas / PAir ratio of ≥2
- 5 kPa with a PGas / PAir ratio of ≤2

permitted for the controller, the pressure must be lowered with a pressure-reducing T-piece (AGA78) (also refer to *Technical data*).



Air is continuously vented to the atmosphere via the damper (D2).

The pressure of the following medium will be reduced via throttle «D1». The illustration below shows the correlations.



The pressure-reducing T-piece AGA78 is supplied ready for mounting, with D1 = 1.5 mm and D2 = 1.7 mm.

D3 with a diameter of 2 mm is included as a loose item.

In combination with VGx



### Applied directives:

Low-voltage directive

2014/68/EU

Directive for pressure devices

2006/95/EC (EU) 2016/426

Gas Appliances Regulation (EU) Electromagnetic compatibility EMC (immunity) \*)

2014/30/EU

\*) Compliance with EMC emissions requirements must be checked after the actuator has been installed in the work equipment

Compliance with the regulations of the applied directives is verified by the adherence to the following standards / regulations:

Pressure regulators and associated safety devices for gas appliances

**DIN EN 88-1** 

Part 1: Pressure regulators for inlet pressures up to and

including 50 kPa

SKP25.4 only **DIN EN 88-2** 

Pressure regulators and associated safety devices for gas appliances

Part 2: Pressure regulators for inlet pressures above 500 mbar up to and including 5 bar

Multifunctional controls for gas burning appliances **DIN EN 126** Automatic shut-off valves for gas burners and gas **DIN EN 161** appliances

Safety and control devices for gas burners and gas burning appliances

**DIN EN 13611** 

Automatic electrical controls for household and similar use

DIN EN 60730-1

Part 1: General requirements

# The relevant valid edition of the standards can be found in the declaration of conformity!



EAC Conformity mark (Eurasian Conformity mark)



ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007



China RoHS Hazardous substances table: http://www.siemens.com/download?A6V10883536







For use in the U.S. / Canada, the actuators carry type suffix «U» (see example) and are and -listed (Example: SKP25.003U1, refer to separate Data Sheet [on request]).

The combination valve and actuator have a designed lifetime\* of

Nominal size	Burner startup cycles
≤25 DN	200.000
2580 DN	100.000
80150 DN	50.000

which, under use of gases to EN 437 (or DVGW specification G260).

This lifetime is based on the endurance tests in the standard EN 161. A summary of the conditions has been published by the European Control Manufacturers Association (Afecor) (<a href="www.afecor.org">www.afecor.org</a>).

The designed lifetime is based on use of the valve and actuator according to the manufacturer's Data Sheet. When reaching the designed lifetime in terms of the number of burner startup cycles or the respective time of usage, valve and actuator must be checked by authorized personnel and, if necessary, replaced.

\* The designed lifetime is not the warranty time specified in the Terms of Delivery.

#### **Disposal notes**

The actuator contains electrical and electronic components and hydraulic oil and must not be disposed of together with domestic waste.

Local and currently valid legislation must be observed.

# Type summary (other types of actuators on request)

The complete gas shutoff assembly or pressure governor assembly consists of actuator and valve.

#### SKP15

	Article no.	Туре	Article no.	Туре
Mains voltage	AC 120	V	AC 230	V
1-stage opening and closing, without end switch, without valve stroke indication	BPZ:SKP15.000E1	SKP15.000E1	BPZ:SKP15.000E2	SKP15.000E2
1-stage opening and closing, with end switch, with valve stroke display	BPZ:SKP15.001E1	SKP15.001E1	BPZ:SKP15.001E2	SKP15.001E2

The complete gas shutoff assembly or pressure governor assembly consists of actuator and valve.

#### SKP25

1-stage opening and closing, with end switch, with pressure governor up to 2.2 kPa, there pressure trages via change setpoint spring possible → refer to accessories  1-stage opening and closing, without end switch, with pressure governor up to 2.2 kPa, there pressure trages via change setpoint spring possible, with integrated damping throttle AGA25.2 → refer to Accessories  2-stage opening and closing, without end switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 2 kPa  2-stage opening and closing, without end switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 2 kPa  1-stage opening and closing, without end switch, with pressure governor up to 2 kPa  1-stage opening and closing, without end switch, with pressure governor up to 2 kPa  1-stage opening and closing, without end switch, with stroke indication, proportionate governor version  1-stage opening and closing, without end switch, with stroke indication, proportionate governor version  1-stage opening and closing, without end switch, with pressure governor up to 10 kPa, high-pressure version, other pressure governor up to 100 kPa, high-pressure version, other pressure governor up to 100 kPa, high-pressure version, other pressure ranges via change setpoint spring		Article no.	Туре	Article no.	Туре
switch, with pressure governor up to 2.2 kPa, other pressure ranges via change setpoint spring possible → refer to accessories  1-stage opening and closing, without end switch, with pressure governor up to 2.2 kPa, other pressure ranges via change setpoint spring possible → refer to accessories  1-stage opening and closing, without end switch, with pressure governor up to 2.2 kPa, other pressure ranges via change setpoint spring possible, with integrated damping throttle AGA25.2 → refer to Accessories  2-stage opening and closing, without end switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 2 kPa  2-stage opening and closing, without end switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 2 kPa  1-stage opening and closing, without end switch, with pressure governor up to 2 kPa  1-stage opening and closing, without end switch, with pressure governor up to 2 kPa  1-stage opening and closing, without end switch, with pressure governor up to 2 kPa  1-stage opening and closing, without end switch, with pressure governor up to 2 kPa  1-stage opening and closing, without end switch, with pressure governor up to 2 kPa  1-stage opening and closing, without end switch, with pressure governor version  1-stage opening and closing, without end switch, with pressure governor up to 5 kPa, high-pressure version, other pressure version, other pressure ranges via change setpoint spring	Mains voltage	AC 120	V	AC 230	V
switch, with pressure governor up to 2.2 kPa, other pressure ranges via change setpoint spring possible $\rightarrow$ refer to accessories  1-stage opening and closing, without end switch, with pressure governor up to 2.2 kPa, other pressure ranges via change setpoint spring possible, with integrated damping throttle AGA25.2 $\rightarrow$ refer to Accessories  2-stage opening and closing, with end switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 2 kPa  2-stage opening and closing, without end switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 6 kPa  1-stage opening and closing, without end switch, with pressure governor up to 2 kPa  1-stage opening and closing, without end switch, with stroke indication, proportionate governor version  1-stage opening and closing, without end switch, proportionate governor version  1-stage opening and closing, without end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  1-stage opening and closing, with end switch, with pressure governor up to 5 kPa, high-pressure version, other pressure ranges via change setpoint spring	switch, with pressure governor up to 2.2 kPa, other pressure ranges via change setpoint	BPZ:SKP25.001E1 <sup>2</sup> )	SKP25.001E1 <sup>2</sup> )	BPZ:SKP25.001E2 <sup>2</sup> )	SKP25.001E2 <sup>2</sup> )
switch, with pressure governor up to 2.2 kPa, other pressure ranges via change setpoint spring possible, with integrated damping throttle AGA25.2 → refer to Accessories  2-stage opening and closing, with end switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 2 kPa  2-stage opening and closing, without end switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 8 kPa  2-stage opening and closing, without end switch, with pressure governor up to 2 kPa  1-stage opening and closing, with end switch, with stroke indication, proportionate governor version  1-stage opening and closing, without end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  1-stage opening and closing, with end switch, with pressure governor up to 150 kPa, high-pressure version, other pressure ranges via change setpoint spring	switch, with pressure governor up to 2.2 kPa, other pressure ranges via change setpoint	BPZ:SKP25.003E1 <sup>2</sup> )	SKP25.003E1 <sup>2</sup> )	BPZ:SKP25.003E2 <sup>2</sup> )	SKP25.003E2 <sup>2</sup> )
switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 2 kPa  2-stage opening and closing, without end switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 2 kPa  1-stage opening and closing, with end switch, with stroke indication, proportionate governor version  1-stage opening and closing, without end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  BPZ:SKP25.303E2  SKP25.301E2 *)  SKP25.303E2  SKP25.303E2  SKP25.303E2  SKP25.401E1 ³)  SKP25.401E1 ³)  SKP25.401E2 ³)*)  SKP25.401E2 ³)*)	switch, with pressure governor up to 2.2 kPa, other pressure ranges via change setpoint spring possible, with integrated damping			BPZ:SKP25.003E2Y	SKP25.003E2Y
switch, with pressure governor up to 2 kPa  2-stage opening and closing, without end switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 2 kPa  1-stage opening and closing, with end switch, with stroke indication, proportionate governor version  1-stage opening and closing, without end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor up to 150 kPa, high-pressure version, other pressure ranges via change setpoint spring  SKP25.203E2L  SKP25.203E2L  SKP25.203E2L  SKP25.301E2 *)  SKP25.301E2 *)  SKP25.301E2 *)  SKP25.303E2  SKP25.303E2  SKP25.401E1 ³)  SKP25.401E1 ³)		BPZ:SKP25.201E1	SKP25.201E1	BPZ:SKP25.201E2	SKP25.201E2
switch, with pressure governor up to 6 kPa  2-stage opening and closing, without end switch, with pressure governor up to 2 kPa  1-stage opening and closing, with end switch, with stroke indication, proportionate governor version  1-stage opening and closing, without end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  1-stage opening and closing, with end switch, with pressure governor up to 150 kPa, high-pressure version, other pressure ranges via change setpoint spring   BPZ:SKP25.203E2L  SKP25.301E2 *)  SKP25.301E2 *)  SKP25.303E2  SKP25.303E2  SKP25.401E1 ³)  SKP25.401E1 ³)	0 . 0	BPZ:SKP25.201E1L	SKP25.201E1L	BPZ:SKP25.201E2L	SKP25.201E2L
switch, with pressure governor up to 2 kPa  1-stage opening and closing, with end switch, with stroke indication, proportionate governor version  1-stage opening and closing, without end switch, proportionate governor version  1-stage opening and closing, with end switch, proportionate governor version  1-stage opening and closing, with end switch, with pressure governor up to 150 kPa, high-pressure version, other pressure ranges via change setpoint spring   BPZ:SKP25.301E2 *)  SKP25.301E2 *)  SKP25.303E2  SKP25.401E1 ³)  SKP25.401E1 ³)  SKP25.401E2 ³)*)	0 1 0			BPZ:SKP25.203E2	SKP25.203E2
switch, with stroke indication, proportionate governor version  1-stage opening and closing, without end switch, proportionate governor version  1-stage opening and closing, with end switch, with pressure governor up to 150 kPa, high-pressure version, other pressure ranges via change setpoint spring   BPZ:SKP25.303E2  SKP25.303E2  SKP25.401E1 ³)  SKP25.401E1 ³)  SKP25.401E2 ³)*)				BPZ:SKP25.203E2L	SKP25.203E2L
switch, proportionate governor version  1-stage opening and closing, with end switch, with pressure governor up to 150 kPa, high-pressure version, other pressure ranges via change setpoint spring  BPZ:SKP25.401E1 ³)  SKP25.401E1 ³)  BPZ:SKP25.401E2 ³)*)	switch, with stroke indication, proportionate			BPZ:SKP25.301E2 *)	SKP25.301E2 *)
switch, with pressure governor up to 150 kPa, high-pressure version, other pressure ranges via change setpoint spring				BPZ:SKP25.303E2	SKP25.303E2
possible → refer to accessories	switch, with pressure governor up to 150 kPa, high-pressure version, other	BPZ:SKP25.401E1 <sup>3</sup> )	SKP25.401E1 <sup>3</sup> )	BPZ:SKP25.401E2 <sup>3</sup> )*)	SKP25.401E2 <sup>3</sup> )*)
1-stage opening and closing, without end switch, with pressure governor up to 150 kPa, high-pressure version, other pressure ranges via change setpoint spring possible → refer to accessories  BPZ:SKP25.403E1 ²)  SKP25.403E1 ²)  BPZ:SKP25.403E2 ²)  SKP25.403E2 ²)	switch, with pressure governor up to 150 kPa, high-pressure version, other pressure ranges via change setpoint spring	BPZ:SKP25.403E1 <sup>2</sup> )	SKP25.403E1 <sup>2</sup> )	BPZ:SKP25.403E2 <sup>2</sup> )	SKP25.403E2 <sup>2</sup> )
1-stage opening and closing, with end BPZ:SKP25.601E2 *) switch, for zero pressure governor version				BPZ:SKP25.601E2 *)	SKP25.601E2 *)
1-stage opening and closing, without end switch, for zero pressure governor version  SKP25.603E2 *)  SKP25.603E2 *)					SKP25.603E2 *)

<sup>1)</sup> Factory setting 1.5 kPa

<sup>&</sup>lt;sup>2</sup>) Factory setting 120 kPa

<sup>\*)</sup> On request

# Type summary (other types of actuators on request)

# SKP55

	Article no.	Туре	Article no.	Туре
Mains voltage	AC 120	V	AC 230	V
1-stage opening and closing, with end switch, with differential pressure governor	BPZ:SKP55.001E1	SKP55.001E1	BPZ:SKP55.001E2	SKP55.001E2
1-stage opening and closing, without end switch, with differential pressure governor	BPZ:SKP55.003E1	SKP55.003E1	BPZ:SKP55.003E2	SKP55.003E2

# SKP75

	Article no.	Туре	Article no.	Туре
Mains voltage	AC 120	V	AC 230	V
1-stage opening and closing, with end switch, with ratio pressure governor	BPZ:SKP75.001E1	SKP75.001E1	BPZ:SKP75.001E2	SKP75.001E2
1-stage opening and closing, without end switch, with ratio pressure governor	BPZ:SKP75.003E1	SKP75.003E1	BPZ:SKP75.003E2	SKP75.003E2
1-stage opening and closing, with end switch, with ratio pressure governor, with greater parallel displacement			BPZ:SKP75.501E2	SKP75.501E2
1-stage opening and closing, without end switch, with ratio pressure governor, with greater parallel displacement	BPZ:SKP75.503E1	SKP75.503E1	BPZ:SKP75.503E2	SKP75.503E2

²) Factory setting 1.5 kPa

#### Ordering examples

When ordering, please give the complete type reference of the actuator (refer to «Type summary»). All components must be ordered as separate items.

#### Example of SKP15

Actuator with safety shutoff function

- Open / closed

- With end switch

- For AC 230 V / 50 Hz SKP15.001E2

Connector valve actuator (plug) AGA64
Connector end switch (plug) AGA65

Combination of actuator / valve consisting of:

Valve

SKP15.001E2 actuator

Accessories

Please order the required valves as separate items (refer to the relevant Data Sheets). Actuator and valve are supplied unassembled. Assembly is very straightforward and preferably made on the burner.

# Example of SKP25

Gas pressure governor with safety shutoff function:

- Without end switch

- For AC 230 V / 50 Hz **SKP25.003E2** 

Connector valve actuator (plug) AGA64

Combination of gas pressure governor / valve consisting of:

- Valve

- SKP25.003E2 actuator



# Adapter plug

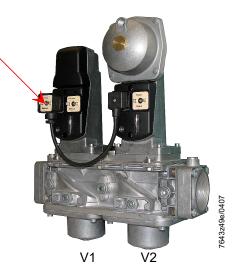
AGA62.000A000

Article no.: BPZ:AGA62.000A000

For powering both actuators on the double valve VGD via plug (AGA64)

Example: SKP15 / SKP25.2 with adapter plug AGA62.000A000

Central connection via AGA64 for the **separate** control of valves 1 and valves 2 Facilitates valve prooving via pressure switch between the valves or ignition via pilot burner





# **Heating element**

AGA63.5A27

Article no.: BPZ:AGA63.5A27

- Refer to Data Sheet N7923
- For use at low ambient temperatures (< -10...-20 °C)





# Contact box for valve actuator (power supply)

AGA64
Article no.: BPZ:AGA64

- Plug-in connector conforming to DIN EN 175301-803-A
- 3 pole + 🗎
- Dia. 6...9 mm / max. 1.5 mm²

Example: SKP15 / SKP25 with contact box AGA64





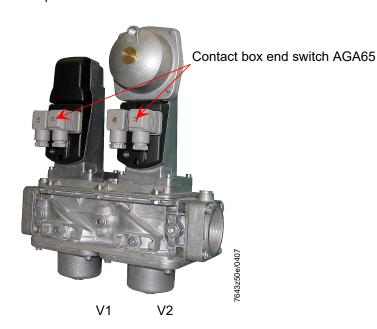
# Contact box for end switch

AGA65

Article no.: BPZ:AGA65

- Plug-in connector conforming to DIN EN 175301-803-A
- 3 pole + 🗎
- Dia. 4.5...11 mm / max. 1.5 mm²

Example: SKP15 / SKP75 with contact box AGA65



**Contact box** AGA67 Article no.: BPZ:AGA67

For powering the magnetic actuator SKP25.2



With integrated bridge rectifier ©

2 pole + 🗒

Dia. 6...8 mm / max. 1.5 mm<sup>2</sup>

Including profile seal

Example: SKP15 / SKP25 with contact box AGA67

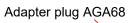
Contact box AGA67

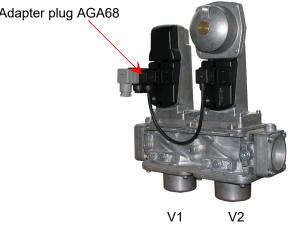


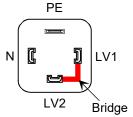
Adapter plug for AGA62.000A000

For common valve control

Example: SKP15 / SKP25 with adapter plug AGA68







Smart Infrastructure

AGA68

Article no.: BPZ:AGA68

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	Article no.	Туре
<ul> <li>Motorized setpoint adjuster for SKP25.0</li> <li>For 5.5 mm stroke</li> <li>See Data Sheet N4581 and Mounting Instructions A5W00000658 (M7643)</li> </ul>		SAS
Adaptation to SKP25 For motor pressure correction in conjunction with motorized setpoint adjuster SAS. For more details, refer to Mounting Instructions A5W00000658.	S55851-Z401-A100	AGA30.7
Damping throttle for SKP25 Optional	BPZ:AGA25.2	AGA25.2
<ul> <li>Damping throttle for SKP55 / SKP75</li> <li>Optional, pipe connection for 6 mm dia.</li> <li>Refer to Mounting Instructions 4 319 2078 0</li> </ul>	BPZ:AGA75	AGA75
Pressure-reducing T-piece for SKP75 Optional	BPZ:AGA78	AGA78

	Pressure range	Color	Diameter in mm	SKP25.0	Actuator SKP25.3	SKP25.4	Accessories	Mounting instructions	Article no.	Туре
	0.53.5 kPa 2.55.5 kPa	Black	1	•			Required AGA30.7	A5W00000658	S55851-Z301-A100	AGA21
	1.512 kPa	Vallow/Cold	1.5	•			Required Optional AGA30.0		BPZ:AGA22	AGA22
	770 kPa	Yellow/Gold	1.5			•	Required Optional AGA30.0		BPZ:AGAZZ	AGA22
Ò	1025 kPa	Red	1.8	•			Required Optional AGA30.1		DD7.4.C.4.22	AGA23
	15150 kPa	Red	1.8			•	Required Optional AGA30.1			AGAZS
	0.25.5 kPa 1.77 kPa	Copper	1.4	•			Required AGA30.7	A5W00000658	S55851-Z302-A100	AGA26
	±0.15 kPa	Unpainted	0.6		•		None		BPZ:AGA28	AGA28
	0.052.2 kPa	Unpainted	1.0	•			None		BPZ:AGA29	AGA29
	1036 kPa 30200 kPa	l loo sints d	2.0	•			Required AGA30.2 Order no: 7421500490	74 240 0000 0	DD7.4 C420 0	A C A 20 2
		Unpainted	2.0			•	Required AGA30.2 Order no: 7421500490	74 319 0926 0	BPZ:AGA30.2	AGA30.2

Distance piece Gasket set

AGA66

Article no.: BPZ:AGA66

- For mounting between actuator and valve (VGx / VRx)
- Increases degree of protection from IP54 to IP65
- When using VGG single valves, observe Data Sheet N7636
- Refer to Mounting Instructions M7643.2 (74 319 0421 0)











Setpoint fine adjustment to SKP25 Packaging version with one setpoint spring each See Mounting Instructions M7643 (74 319 0926 0) AGA30...

	Setpoint spring			
Article no.	Туре	1.512 kPa Color: Yellow 1	1025 kPa Color: Red 2	1036 kPa Color: Blank 3
BPZ:AGA30.0	AGA30.0	•		
BPZ:AGA30.1	AGA30.1		•	
BPZ:AGA30.2	AGA30.2			•





# Note!

All typical technical information applies to nominal conditions.

# General unit data

Mains voltage	
- Europe	
→ SKPx5.xxxE2	AC 230 V -15%/+10%
→ SKPx5.xxxE1	AC 120 V –15%/+10%
- Japan	
→ SKPx5.xxxF1	AC 100 V -15%/+10%
→ SKPx5.xxxF2	AC 200 V -7%/+10%
Mains frequency	
- Europe	50 / 60 Hz ±6%
- Japan	60 Hz ±6%
Power consumption	Protection 1 A slow
European	
→ SKPx5.xxxEx	Max. 10 VA
→ SKP25.2xxEx	Max. 35 VA (in stage 2)
Japan	
→ SKPx5.xxxFx	Max. 13 VA
Closing time	
→ SKPx5	<1 s (at shutdown)
Required time interval load change carried	
via air / fuel ration pressure between high-	
fire and low-fire	
→ SKP25.3 / SKP55 / SKP75	Min. 4 s (depending on valve stroke)
Safety class	I
Degree of protection	
→ SKPx5	IP54
	→ only ensured when central screw at the connector is tightened
	IP65
	→ only with gasket kit AGA66
→ SKP25 / SKP55	→ only with screwed-on locking caps
	•



# Note!

Degree of protection IP54 and IP65 only possible with mounted connectors.

	• •
Group 1	In accordance with DIN EN 88-1
Pollution degree	2
Rated surge voltage	Overvoltage category III in accordance with DIN EN 60730-1
Mode of operation	Automatic controller and control unit: Type 2C
Design of the controller and control unit	Integrated controller and control unit
Control class	A to DIN EN 88-1
→ SKP25.4	
<ul> <li>Accuracy class</li> </ul>	In accordance with EN 88-2:AC5
<ul> <li>Closing pressure class</li> </ul>	In accordance with EN 88-2:SG10
Control accuracy	
→ SKP25.3 / SKP75	<10 % at «∆pmin», <2 % at «∆pmax»
→ SKP55	<10 % at «∆pmin», <1 % at «∆pmax»
Pressure impulse SKPx5	Static compressive strength as with valve VGx

Control variable gas pressure	
→ SKP25.0	0.0525 kPa (3 setpoint springs)
→ SKP25.2	0.26 kPa
→ SKP25.2xxxxL	0.22 kPa
→ SKP25.3	0.055 kPa
→ SKP25.4	7200 kPa (3 setpoint springs)
→ SKP25.6	<0 kPa (atmosphere)
→ SKP55	Difference pressure PG+ / PG-
	0.0320 kPa
→ SKP75 / SKP75.5	Difference pressure PG-PF or PG-PAir
	0.0812 kPa
Absolute / difference pressure of	
combustion air (reference variable)	
$\rightarrow$ SKP25.3	0.057.5 kPa
→ SKP55	Difference pressure PL+ / PL-
	0.0320 kPa
→ SKP75 / SKP75.5	PAir-PCombustion space
	>0.05 kPa
Air pressure / difference pressure	
- at «PGas / PAir» ≥ 2	Max. 3 kPa
- at «PGas / PAir» ≤ 2	Max. 5 kPa
- Upper pressures refer to AGA78	Max. 15 kPa
«Accessories»	
Difference pressure ratio (gas / air)	
adjustable	
→ SKP25.3 / SKP55	1:1
→ SKP75 / SKP75.5	0.49 (Factory supplied 1.3)
Permissible combustion space pressure	come (cases) supplies no
→ SKP75	3 kPa
Parallel translation PGas	o in a
→ SKP25.3 / SKP55	±0.1 kPa
→ SKP25.6	0 kPa/-0.9 kPa
→ SKP75	±0.1 kPa (Factory supplied 0)
-	
→ SKP75.5	+0.1 kPa/-0.45 kPa (Factory supplied 0)
Position switch (if built-in)	As closed position switch factory-made
	justified
•	Position valve CLOSED or OPEN
- Switching load	$4 \text{ A } (2 \text{ A}, \cos \varphi = 0.3)$
	Protection 6 A slow



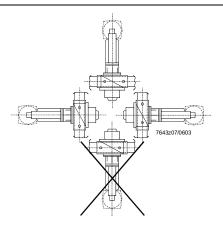
#### Notice!

Safety extra-low voltage may not be connected.

If this is not observed, there will be a risk of electric shock!

On-time	100 %
Opening speed, typical (approx. 2 mm/s)	Lower opening speeds due to low ambient
	temperatures can be compensated by
	fitting an AGA63.5A27 heating element

# Permissible mounting positions



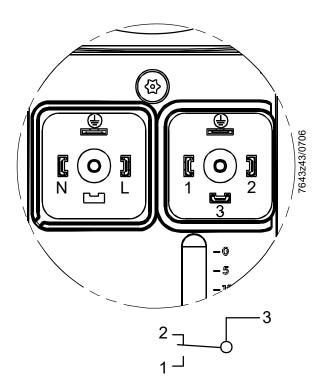
# Always with the diaphragms in the vertical position

	position
Weight	
→ SKP15	Approx. 1.1 kg
$\rightarrow$ SKP25	Approx. 1.6 kg
→ SKP25.0	Approx. 1.6 kg
→ SKP25.2	Approx. 2.1 kg
→ SKP55	Approx. 1.9 kg
$\rightarrow$ SKP75	Approx. 2.3 kg
→ AGA64	Approx. 30 g
→ AGA65	Approx. 36 g
→ AGA62.000A000	Approx. 66 g
Permissible media	Depending on used valve
Media inlet pressure «PE»	Depending on used valve
Permissible media temperature	Depending on used valve
Flow rate	Depending on used valve
Permissible test pressure «PG»	100 kPa
Permissible under pressure «PG»	20 kPa
Gas family	IIII

# **Environmental** conditions

Storage	DIN EN 60721-3-1	
Climatic conditions	Class 1K3	
Mechanical conditions	Class 1M2	
Temperature range	-15+60 °C	
Humidity	<95 % r.h.	
Transport	DIN EN 60721-3-2	
Climatic conditions	Class 2K2	
Mechanical conditions	Class 2M2	
Temperature range	-15+60 °C	
Humidity	<95 % r.h.	
Operation	DIN EN 60721-3-3	
Climatic conditions	Class 3K3	
Mechanical conditions	Class 3M3	
$\rightarrow$ SKP25.0 with AGA30.7 and SAS	See <i>Use</i>	
	No classification «-M-»	
	(restricted operating conditions)	
Temperature range	-10+60 °C	
	(longer opening times below 0 °C)	
	-20+60 °C	
	(with heating element AGA63.5A27)	
Temperature range	-5+55 °C	
Mechanical conditions		
→ SKP25.2	-10+50 °C	
	(restricted operating conditions)	
$\rightarrow$ SKP25.0 with AGA30.7 and SAS	-4+54 °C	
	(restricted operating conditions)	
Humidity	<95 % r.F.	
Installation altitude	Max. 2,000 m above sea level	

Connection of actuator (front-view)



 $\leftarrow$  If valve closed

**Valve actuator** Connection via AGA64 DIN EN 175301-803-A

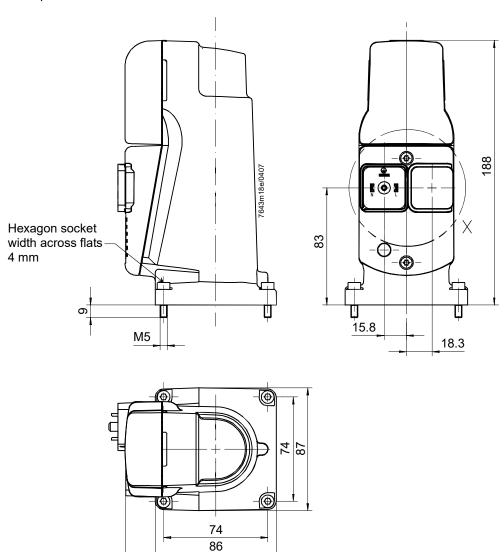
End switch Connection via AGA65 DIN EN 175301-803-A

(Only with SKPxx.xx1xx)



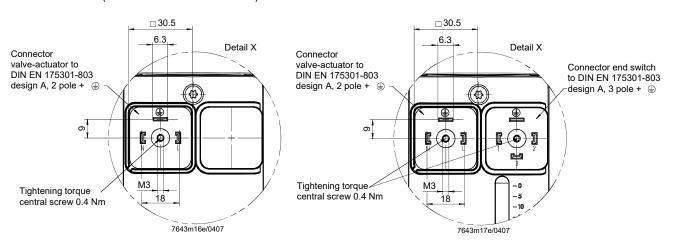


Actuators SKP15 Example: SKP15.000



# SKP15.000 (no valve stroke indication)

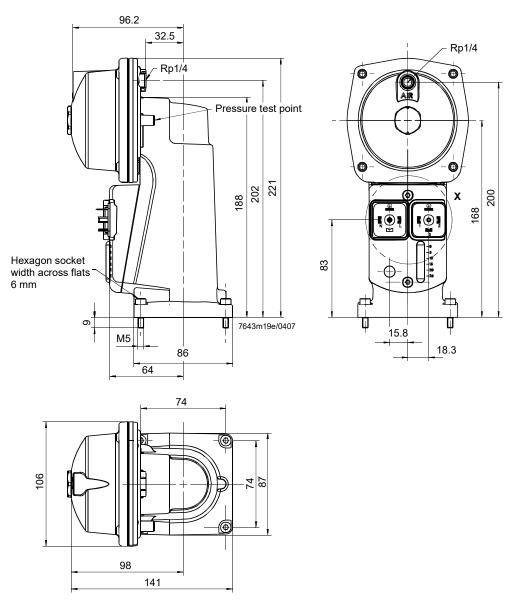
#### SKP15.001



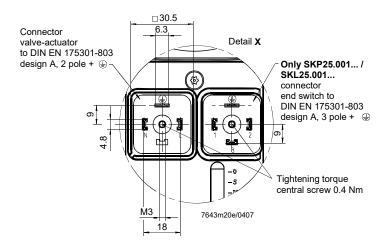
64

Actuator SKP25.0 / SKP25.3 / SKP25.6

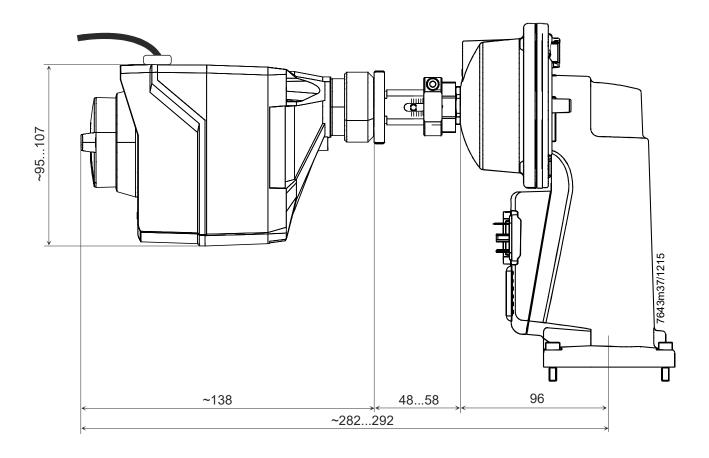
#### Dimensions in mm



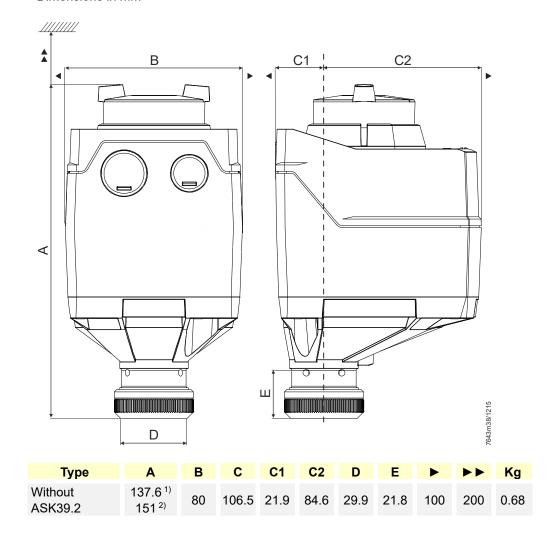
# SKP25.001



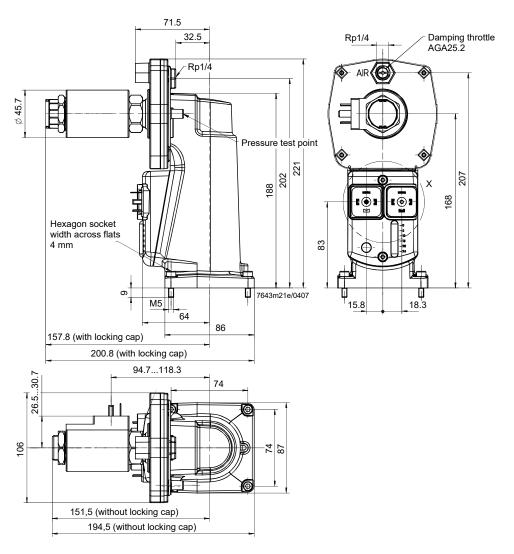
Actuator SKP25.0 with AGA30.7 and SAS)



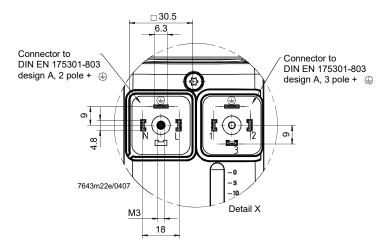
SAS motorized setpoint adjuster



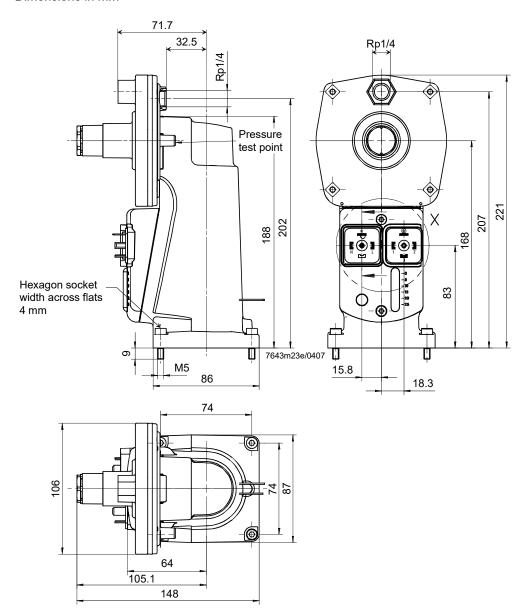
#### Actuator SKP25.2



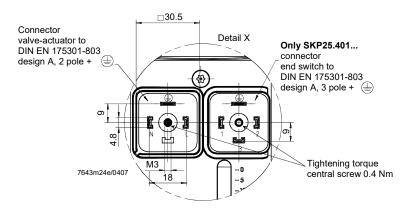
### SKP25.201



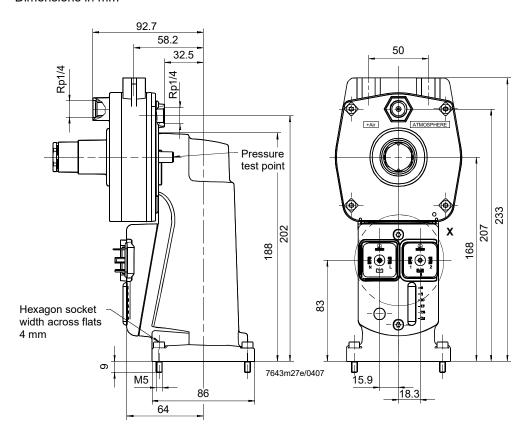
#### Actuators SKP25.4

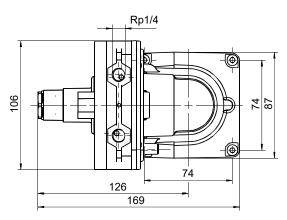


# SKP25.401

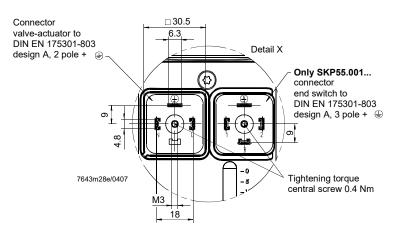


# **Actuators SKP55**

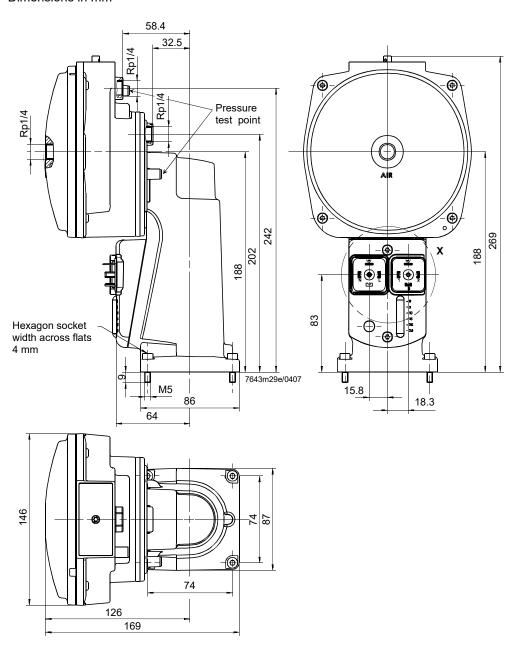




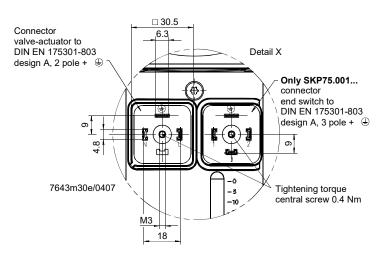
# SKP55.001



# **Actuators SKP75**



# SKP75.001

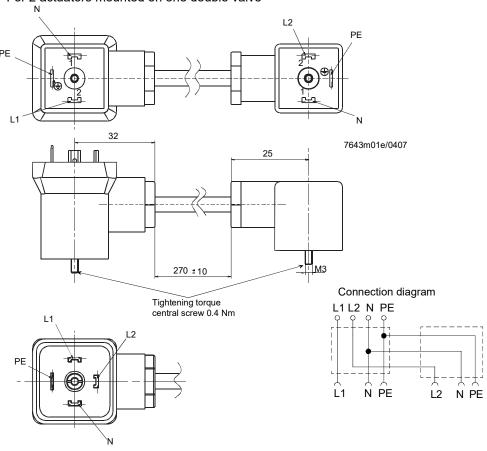


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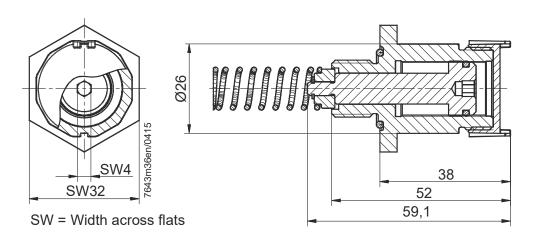
# Adapter plug AGA62.000A000

#### Dimensions in mm

- For 2 actuators mounted on one double valve



# AGA30.x



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