



Electro-hydraulic actuators for valves

with a 20 mm stroke

SKD32.. SKD82... SKD62...

SKD60

- SKD32.. Operating voltage AC 230 V,
- SKD82.. Operating voltage AC 24 V,
- SKD6.. Operating voltage AC 24 V,

3-position control signal 3-position control signal

control signal DC 0...10 V, 4...20 mA or

0...1000 Ω

- SKD6... Choice of flow characteristic, position feedback, stroke calibration, LED status indication, override control
- SKD62UA with functions choice of direction of operation, stroke limit control, sequence control with adjustable start point and operating range, operation of frost protection monitors QAF21.. and QAF61..
- . Positioning force 1000 N
- Actuator versions with or without spring-return function
- · For direct mounting on valves; no adjustments required
- · Manual adjuster and position indicator
- Optional functions with auxiliary switches, potentiometer, stem heater and mechanical stroke inverter
- SKD..U are UL-approved

Use

For the operation of Siemens 2-port and 3-port valves, types VVF.., VVG.., VXF.. and VXG.. with a 20 mm stroke as control and safety shut-off valves in heating, ventilation SIEMENS BOLS IEMENS Building Technologies
HVAC Products

Standard	ممام	tron	ice
Stanuaru	elec	поп	IUS

Туре	Operating	Positioning	Positioning Spring-return Positioning time		ing time	Enhanced	
	voltage	signal	Function	Time	Opening	Closing	functions
SKD32.50					120.0	120.0	
SKD32.51	AC 230 V			0.0	120 s	120 s	
SKD32.21			yes	8 s	30 s	10 s	
SKD82.50		3-position					
SKD82.50U *					120 s	120 s	
SKD82.51			V00	8 s	120 S	120 S	
SKD82.51U *	AC 24 V		yes	0.5			
SKD62	AC 24 V	DC 010 V,	\/OC	15 s			
SKD62U *		420 mA,	yes	10.5	30 s	15 s	
SKD60		or			30.8	138	
SKD62UA *		$01000~\Omega$	yes	15 s			yes 1)

Enhanced electronics

- ¹⁾ Direction of operation, stroke limit control, sequence control, signal addition
- * UL-approved versions

Accessories

Туре	Description	For actuator	Mounting location
ASC1.6	Auxiliary switch	SKD6	1 x ASC 1.6 or
ASC9.3	Dual auxiliary switches		1 x ASC9.3 or
ASZ7.3	Potentiometer 1000 Ω	SKD32	1 x ASZ7.3 or
ASZ7.31	Potentiometer 135 Ω	SKD82	1 x ASZ7.31 or
ASZ7.32	Potentiometer 200 Ω		1 x ASZ7.32
ASZ6.5	Stem heater AC 24 V	SKD	1 x ASZ6.5
ASK50	Mechanical stroke inverter	SKD	1 x ASK50

Ordering

When ordering please specify the quantity, product name and type code.

Example: 1 actuator, type SKD32.50 and

1 potentiometer, 135 Ω , type ASZ7.31

Delivery

The actuator, valve and accessories are supplied in separate packaging and not assembled prior to delivery.

Spare parts

See overview, section «Replacement parts», page 15.

Equipment combinations

Valve typ	oe .	DN	PN-class	k _{vs} [m ³ /h]	data sheet
M	Two-port valves VV	(control valves or sa	afety shut-off v	alves)):	
VVF21	Flange	2580	6	1.9100	4310
VVF31	Flange	1580	10	2.5100	4320
VVF40	Flange	1580	16	1.9100	4330
VVF41	Flange	50	16	1931	4340
VVG41	Threaded	1550	16	0.6340	4363
VVF52	Flange	1540	25	0.1625	4373
VVF61	Flange	1525	40	0.197.5	4382
	Three-port valves VX.	(control valves for	«mixing» and	« distribution»):	
VXF21	Flange	2580	6	1.9100	4410
VXF31	Flange	1580	10	2.5100	4420
VXF40	Flange	1580	16	1.9100	4430
VXF41	Flange	1550	16	1.931	4440
VXG41	Threaded	1550	16	1.640	4463
VXF61	Flange	1525	40	1.97.5	4482

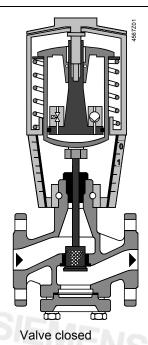
For admissible differential pressures Δp_{max} and closing pressures $\Delta p_{\text{s}},$ refer to the relevant valve data sheets.

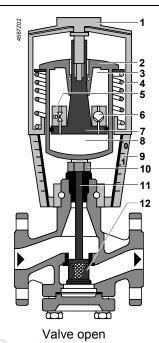
SIEMENS/B Note

Third-party valves with strokes between 6...20 mm can be motorized, provided they are «closed with the de-energized» fail-safe mechanism and provided that the necessary mechanical coupling is available. The Y1 signal must be routed via an additional freely-adjustable end switch (ASC9.3) to limit the stroke. We recommend that you contact your local Siemens office for the necessary information.

Technology

Principle of electro-hydraulic actuators





- 1 Manual adjuster
- 2 Pressure cylinder
- 3 Suction chamber
- 4 Return spring
- 5 Solenoid valve
- 6 Hydraulic pump
- 7 Piston
- 8 Pressure chamber
- 9 Position indicator (0 to 1)
- 10 Coupling
- 11 Valve stem
- 12 Plug

Opening the valve

The hydraulic pump (6) forces oil from the suction chamber (3) to the pressure chamber (8) and thereby moving the pressure cylinder (2) downwards. The valve stem (11) retracts and the valve opens. Simultaneously the return spring (4) is compressed.

Closing the valve

Activating the solenoid valve (5) allows the oil in the pressure chamber to flow back into the suction chamber. The compressed return spring moves the pressure cylinder upwards. The valve stem extends and the valve closes

Manual operation mode

Turning the manual adjuster (1) clockwise moves the pressure cylinder downwards and opens the valve. Simultaneously the return spring is compressed.

In the manual operation mode the control signals Y and Z can further open the valve but cannot move to the «0%» stroke position of the valve. To retain the manually set position, switch off the power supply or disconnect the control signals Y and Z. The red indicator marked «MAN» is visible.

Note: Controller in manual operation

When setting the controller for a longer time period to manual operation, we recommend adjusting the actuator with the manual adjuster to the desired position. This guarantees that the actuator remains in this position for that time period. Attention: Do not forget to switch back to automatic operation after the controller is set back to automatic control.

Automatic mode

Turn the manual adjuster counterclockwise to the end stop. The pressure cylinder moves upward to the «0%» stroke position of the valve. The red indicator marked «MAN» is no longer visible.

Minimal volumetric flow

The actuator can manually be adjusted to a stroke position > 0 % allowing its use in applications requiring constantly a minimal volumetric flow.

Spring-return facility

The SKD32.51, SKD32.21, SKD82.51U.. and SKD62.. actuators, which feature a spring-return function, incorporate an additional solenoid valve which opens if the control signal or power fails. The return spring causes the actuator to move to the «0 %» stroke position and closes the valve in accordance with the safety requirements set out in DIN 32730.

SKD32../SKD82..

3-position control signal

The valve is controlled by a 3-position signal either via terminals Y1 or Y2 and generates the desired stroke by means of above described principle of operation.

Voltage on Y1 piston extends valve opens
 Voltage on Y2 piston retracts valve closes
 No voltage on Y1 and Y2 piston / valve stem remain in the respective position

SKD62.., SKD60

Y control signal DC 0...10 V and/or DC 4...20 mA, 0...1000 Ω

The valve is either controlled via terminal Y or override control Z. The positioning signal Y generates the desired stroke by means of above described principle of operation.

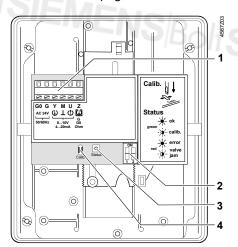
Signal Y increasing: piston extends valve opens
 Signal Y decreasing: piston retracts valve closes
 Signal Y constant: piston / valve stem remain in the respective position
 Override control Z see description of override control input, page 7

Frost protection monitor
Frost protection
thermostat

A frost protection thermostat can be connected to the SKD6.. actuator. The added signals from the QAF21.. and QAF61.. require the use of SKD62UA actuators. Notes on special programming of the electronics are described under «Enhanced electronics» on page 5.

«Connection diagrams» for operation with frost protection thermostat or frost protection monitor refer to page 13.

Standard electronics SKD62.., SKD60

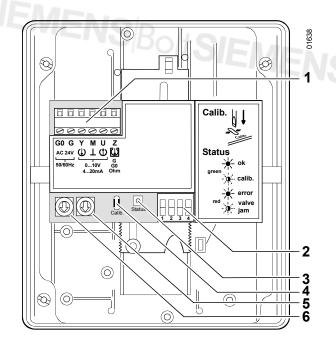


- Connection terminals
 - 2 Mode DIL switches
 - 3 LED status indication
 - 4 Slot for calibration

DIL switches SKD62.., SKD60

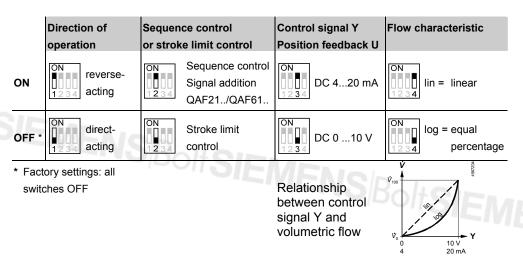
	Positioning signal Y Position feedback U	Flow characteristic
ON	ON DC 420 mA	Iin = linear
OFF *)	ON 90ZJ999 DC 010 V	log = equal percentage
•	ctory setting: switches OFF	Relationship between control signal Y and volumetric flow

Enhanced electronics SKD62UA



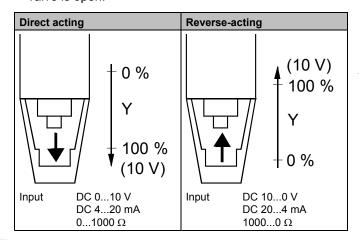
- 1 Connection terminals
- 2 DIL switches
- 3 LED status indication
- 4 Stroke calibration
- 5 Rotary switch **Up** (factory setting 0)
- 6 Rotary switch Lo

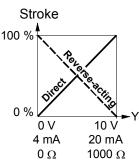
DIL switches SKD62UA



Selection of direction of operation SKD62UA

- With normally-closed valves, «direct-acting» means that with a signal input of 0 V, the valve closes (applies to all Siemens valves listed under «equipment combinations» on page 2)
- With normally-open valves, «direct-acting» means that with a signal input of 0 V, the valve is open.





S/EMENS/B_{Note}

The mechanical spring-return function is not affected by the direction of operation selected.

Stroke limit control and sequence control SKD62UA

Setting the stroke limit control The rotary switches LO and UP can be used to apply an upper and lower limit to the stroke in increments of 3%, up to a maximum of 45%100 % 100 ... 55 % _ 🎞

LO <u>- </u>			→ y
Position of LO	Lower stroke limit	Position of UP	Upper stroke limit
0	0 %	0	100 %
1	3 %	1	97 %
2	6 %	2	94 %
3	9 %	3	91 %
4	12 %	4	88 %
5	15 %	5	85 %
6	18 %	6	82 %
7	21 %	7	79 %
8	24 %	8	76 %
9	27 %	9	73 %
Α	30 %	Α	70 %
В	33 %	В	67 %
С	36 %	С	64 %
D	39 %	D	61 %
F	42 %	F	58 %

- Operating range of QAF21.. (see below)
- Operating range of QAF61.. (see below)
- The smallest adjustment is 3 V; control with 0...30 V is only possible via Y.

Stroke control with QAF21.. / QAF61.. signal addition SKD62UA only

Setting the signal addition The operating range of the frost protection monitor (QAF21.. or QAF61..) can be defined with rotary switches LO and UP QAF21.. / QAF61.. Sequence control Position Position of UP operating range QAF21.. QAF61

Setting the sequence control

LO 🌣

0 ... 15 V

Starting point for

0 V 1 V

2 V 4 V

6 V

8 V

9 V

10 V

11 V

13 V

14 V

range of a sequence.

100 %

Position of LO

Α

В

D

Ε

The rotary switches LO and UP can be used

to determine the starting point or the operating

.. 15 V

Position of UP

В

Operating range of sequence control

10 V *

4 V 5 V

6 V

8 V

9 V

10 V

11 V

12 V

13 V

14 V

Ŭ UP

Calibration SKD62.., SKD60

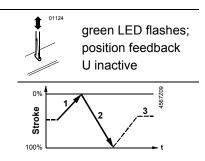
In order to determine the stroke positions 0 % and 100 % in the valve, calibration is required on initial commissioning:

Prerequisites

- Mechanical coupling of the actuator SKD6.. with a Siemens valve
- Actuator must be in «Automatic operation» enabling stroke calibration to capture the effective 0 % and 100 % values
- AC 24 V power supply
- · Housing cover removed

Calibration

- 1. Short-circuit contacts in calibration slot (e.g. with a screwdriver)
- 2. Actuator moves to «0 %» stroke position (1) (valve closed)
- 3. Actuator moves to «100 %» stroke position (2) (valve open)
- 4. Measured values are stored



Normal operation

5. Actuator moves to the position (3) as indicated by signals Y or Z

green LED is lit permanently; position feedback U active, the values correspond to the actual positions

A lit red LED indicates a calibration error.

The calibration can be repeated any number of times.

Indication of operating state SKD62.., SKD60

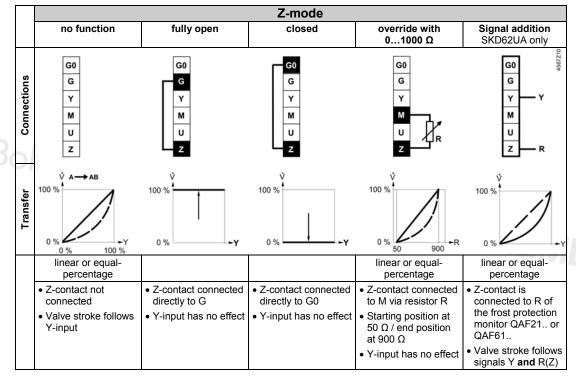
The LED status indication indicates operational status with dual-colored LED and is visible with removed cover.

LED	Indication		Function	Remarks, troubleshooting
Green	Lit		Normal operation	Automatic operation; everything o.k.
	Flashing	-)•[-	Calibration in progress	Wait until calibration is finished (LED stops flashing, green or red LED will be lit)
Red	Lit	->	Faulty stroke calibration	Check mounting Restart stroke calibration (by short-circuiting calibration slot)
			Internal error	Replace electronics
	Flashing	-)•(-	Inner valve jammed	Check valve
Both	Dark	0	No power supply	Check mains network, check wiring
		0	Electronics faulty	Replace electronics

As a general rule, the LED can assume only the states shown above (continuously red or green, flashing red or green, or off).

Override control input Z SKD62..., SKD60

Override control input can be operated in following different modes of operation



Note

Shown operation modes are based on the factory setting «direct acting» Y-input has no effect in Z-mode.

Accessories

SKD..

ASZ6.5 stem heater

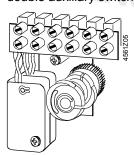


for media below 0 °C; mount between valve and actuator

SKD32... SKD82..

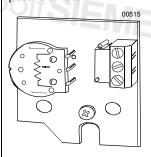
ASC9.3

double auxiliary switch



adjustable switching points

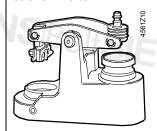
ASZ7.3.. potentiometer



 $0...1000 \Omega$ ASZ7.3: ASZ7.31: 0...135 Ω ASZ7.32: $0...200~\Omega$

ASK50

stroke inverter

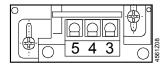


0 % actuator stroke corresponds to 100 % valve stroke; mount between valve and actuator

SKD62.., SKD60

ASC1.6

auxiliary switch



switching point 0...5 % stroke

See section «Technical data» on page 10 for more information.

Engineering notes

Conduct the electrical connections in accordance with local regulations on electrical installations as well as the internal or connection diagrams.

Caution \triangle

Safety regulations and restrictions designed to ensure the safety of people and property must be observed at all times!

Caution \triangle

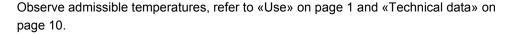
For media below 0 °C the ASZ6.5 stem heater is required to keep the valve from freezing. For safety reasons the stem heater is designed for an operating voltage of AC 24 V / 30 W.

For this case, do not insulate the actuator bracket and the valve stem, as air circulation must be ensured. Do not touch the hot parts without prior protective measures to avoid burns.

Non-observance of the above may result in accidents and fires!

Recommendation: Above 140 °C insulating the

valves is strictly recommended.



If an auxiliary switch is required, its switching point should be indicated on the plant schematic.

Every actuator must be driven by a dedicated controller (refer to «Connection diagrams», page 13).



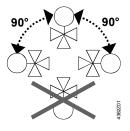


Mounting Instruction 74 319 0325 0 for fitting the actuator to the valve are by packed in the actuator packaging. The instructions for accessories are enclosed with the accessories themselves.

Accessories	Installation instructions		
ASC1.6	G4563.3	4 319 5544 0	
ASC9.3	G4561.3	4 319 5545 0	
SKD		74 319 0326 0	

Accessory	Mounting instructions		
ASZ6.5	M4563.7	4 319 5564 0	
ASK50	M4561.5	4 319 5549 0	
ASZ7.3		74 319 0247 0	
SKD	M3250	74 319 0325 0	

Orientation

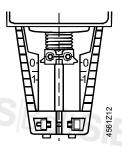


Commissioning notes

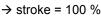
When commissioning the system, check the wiring and functions, and set any auxiliary switches and potentiometers as necessary, or check the existing settings.

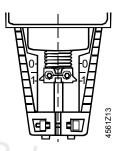
Coupling fully retracted

→ stroke = 0%



Coupling fully extended

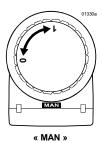




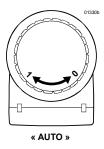
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The manual adjuster must be rotated counterclockwise to the end stop, i.e. until the red indicator marked «MAN» is no longer visible. This causes the Siemens valves, types VVF.., VVG.., VXF.. and VXG.. to close (stroke = 0%).

Manual operation



Automatic operation



Maintenance notes

The SKD.. actuators are maintenance-free.



When servicing the actuator:

- Switch off pump of the hydronic loop
- Interrupt the power supply to the actuator
- · Close the main shutoff valves in the system
- Release pressure in the pipes and allow them to cool down completely
- If necessary, disconnect electrical connections from the terminals
- The actuator must be correctly fitted to the valve before recommissioning. Recommendation SKD6..: trigger stroke calibration.

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SIEMENS

«Replacement parts», see page 15.

Disposal



The device contains electrical and electronic components and must not be disposed of together with domestic waste. This applies in particular to the PCB.

Legislation may demand special handling of certain components, or it may be sensible from an ecological point of view.

Current local legislation must be observed.

Warranty

The technical data relating to specific applications are valid only in conjunction with the valves listed in this Data Sheet under «Equipment combinations», page 2.



The use of the actuators in conjunction with third-party valves invalidates all claims under Siemens Switzerland Ltd / HVAC Products warranty.

Technical data

		SKD32	SKD82	SKD6
Power supply	Operating voltage	AC 230 V	AC 24 V	AC 24 V
. oner cappiy	Voltage tolerance	± 15 %	± 20 %	-20 % / +30 %
		= 10 70		V / PELV
	Frequency		50 or 60 Hz	
	Max. Power consumption At	SKD32.21:	SKD82.50,50U	17 VA / 12 W
		20 VA / 13 W	13 VA / 8 W	
		SKD32.50:	SKD82.51,51U	
		16 VA / 11 W	18 VA, 11 W	
		SKD32.51:	,	
		21 VA, 13 W		
	External supply cable fuse	min. 0.5 A, slow	min.	1 A, slow
		max. 0.6 A, slow	max.	10 A, slow
Signal inputs	Control signal			DC 010 V,
		3 n	osition	DC 420 mA
		J-p	OSILION	or
				01000 Ω
	Terminal Y	_	Voltage	DC 010 V
		_	Input impedance	100 kΩ
		_	Current	DC 420 mA
		-	Input impedance	240 Ω
		-	Signal resolution	< 1%
			Hysteresis	1 %
	Terminal Z	-	Resistor	1000 Ω
	Override control		Z not connected	No function, priority
		_		terminal Y
			onnected directly to G	max. stroke 100 %
			nnected directly to G0	min. stroke 0 %
D '''		Z connecte	ed to M via 01000 Ω	stroke proportional to R
Position	Terminal U		voltage	DC 09,8 V ±2 %
feedback			load impedance	> 10 kΩ
			current	DC 419,6 mA ±2 % < 500 Ω
Operating data	Positioning time at 50 Hz		load impedance	< 500 12
Operating data	opening	SKD32.5 120 s	SKD82.5 120 s	30 s
	opening	SKD32.3 120 s SKD32.21 30 s	SKD02.5 120 S	30 8
	Closing	SKD32.21 30 s	SKD82.5 120 s	15 s
	Ciosing	SKD32.3 120 s SKD32.21 10 s	ONDOZ.J 120 S	100
	Spring-return time (closing)	SKD32.21 10 s		
	opinig-retain time (closing)	SKD32.21 8 s	SKD82.51 8 s	SKD62 15 s
		SKD32.50 –	SKD82.50 -	SKD60 -
		UNDUZ.00 -	GRE02.00 -	

	SIEMEN	SKD32	SKD82	SKD6
	Positioning force	DRALO	1000 N	
	Nominal stroke	20012	20 mm	
	Max. permissible medium		-25150 °C	S/R-410-
	temperature	< 0 °C	: requires stem heat	
Electrical	Cable entry		4 x M20 (∅ 20.5 m	
connections	U	With knockouts for s	tandard ½" conduit	connectors (Ø 21.5 mm)
Norms and	CE-conformity	0004/400/50		
standards	EMC-directive	2004/108/EC		
	Immunity			
	Emission		ential	
	Low voltage directive	2006/95/EC		
	Electrical safety	EN 60730-1		
	Product standards for	EN 60730-2-14		
	automatic electric controls			
	Protection standard	l		III
	EN 60730			
	Housing protection standard			
	Upright to horizontal	IP54 to EN 60529		
	Conform with UL standards	SKD82U	UL 873	
Com		SKD62U, SKD62UA		UL873
	C-tick	0112020, 011202071	N474	N474
	Environmental compatibility	ISO 14001 (Environme		111111
	Environmental compatibility	ISO 9001 (Quality)	,,,,,	
		SN 36350 (Environmen	ntally compatible pro	oducte)
		RL 2002/95/EG (RoHS		ducis)
Dimensions /	Dimensions	`	er to «Dimensions», _I	220 14
weight	Weight	SKD32, SKD82, SKI		3.60 kg
weignt	Weight	SKD82U, SKD6U, S		3.85 kg
	ASK50 stroke inverter	ONDOZO, ONDOO, O	1.10 kg	0.00 kg
Materials	Actuator housing, bracket		Die-cast aluminur	m D I.
Materiale	Housing box and			PIDOITSIE
	manual adjuster		Plastic	
	aa			
Accessories		SKD32, S	SKD82	SKD6
ASC1.6	Switching capacity			AC 24 V, 10 mA4 A
Auxiliary switch				resistive, 2 A inductive
ASC9.3	Switching capacity per	AC 250 V, 6 A resisting	ve, 2.5 A inductive	
double auxiliary	auxiliary switch			
switch				
ASZ7.3	Change in overall resistance		01000Ω	
Potentiometer	of potentiometer at nominal	ASZ7.31	0135Ω	

ASZ7.32

 $0...200~\Omega$

AC 24 V ± 20 %

30 VA

stroke

Operating voltage

Power consumption

ASZ6.5

stem heater

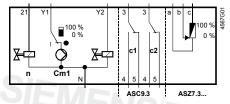
MENSBo	ter	
Direction of operation	Direct-acting, reverse-acting	DC 010 V / DC 100 V
		DC 420 mA / DC 204 mA
		01000 Ω / 10000 Ω
Stroke limit control	Range of lower limit	045 % adjustable
	Range of upper limit	10055 % adjustable
Sequence control	Terminal Y	
	Starting point of sequence	015 V adjustable
	Operating range of sequence	315 V adjustable
Signal addition	Z connected to R of	
-	Frost protection monitor QAF21	01000Ω , added to Y signal
	Frost protection monitor QAF61	DC 1.6 V, added to Y signal

General ambient conditions

	Operation	Transport	Storage
	EN 60721-3-3	EN 60721-3-2	EN 60721-3-1
Environmental conditions	Class 3K5	Class 2K3	Class 1K3
Temperature	-15+50 °C	-30+65 °C	-15+50 °C
Humidity	595 % rh	< 95 % rh	595 % rh

Internal diagrams





Cm1 end switch

solenoid valve for springn return

c1, c2 ASC9.3 double auxiliary switch

a, b, c ASZ7.. potentiometer

Υ1 Positioning signal «open»

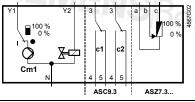
Y2 Positioning signal «close»

spring-return function 21

neutral conductor

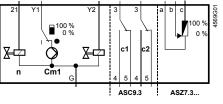
SKD32.50

AC 230 V, 3-Position



SKD82.51

AC 24 V, 3-Position



Cm1 end switch

solenoid valve for springn return

c1, c2 ASC9.3 double auxiliary switch

a, b, c ASZ7.. potentiometer

Υ1 Positioning signal «open»

Y2 Positioning signal «close»

21 spring-return function

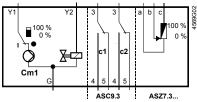
G

G

System potential

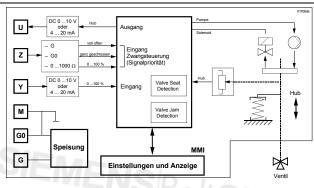
SKD82.50

AC 24 V, 3-Position



SKD60, SKD62 SKD62U, SKD62UA AC 24 V, DC 0...10 V,

4...20 mA, 0...1000 Ω



U position indication

Z override control

Υ positioning signal

measuring neutral М

G0 operating voltage AC 24 V:

system neutral (SN)

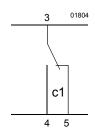
operating voltage AC 24 V: system potential (SP)

SIEMENS|BoltSIEI **Connection terminals**

SKD6..

operating voltage AC 24 V: system neutral (SN) G operating voltage AC 24 V: system potential (SP) Υ Positioning signal DC 0...10 (30) V or DC 4...20 mA Μ Measuring neutral (= G0) U Position indication DC 0...10 V or DC 4...20 mA Override control (functionality see page 7)

Auxiliary switch ASC1.6



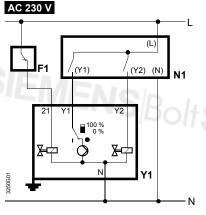
Connection diagrams

SKD32..

AC 230 V 3-Position

SIEME

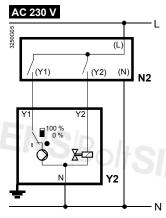
SKD32.21, SKD32.51



temperature limiter N1, N2 controller

Phase neutral

SKD32.50



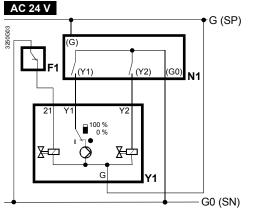
Y1 Positioning signal «open» Y2 Positioning signal «close»

Spring-return function

SKD82... AC 24 V

3-Position

Y1, Y2

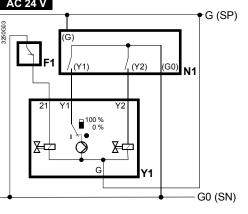


temperature limiter N1, N2 controller

Y1, Y2 actuators

SKD82.51, SKD82.51U

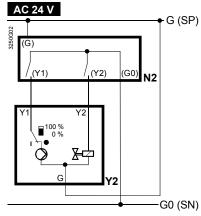
actuators



Systempotential AC 24 V

System neutral

SKD82.50, SKD82.50U



Q1, Q2 controller contacts

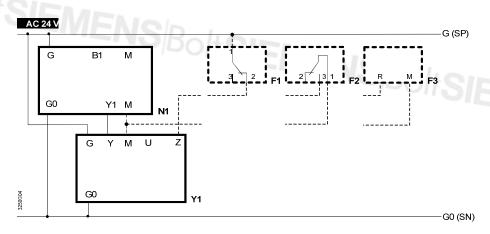
Y1 Positioning signal «open» Y2 Positioning signal «close» 21 Spring-return function

SKD6..

AC 24 V

DC 0...10 V, 4...20 mA,

 $0...1000 \Omega$



Y1 actuator N1

controller F1 temperature limiter

F2 frost protection thermostat

terminals: 1-3frost hazard / sensor is interrupted

(thermostat closes with frost)

normal operation

F3 frost protection monitor QAF21.. or QAF61.. (for SKD62UA only) *

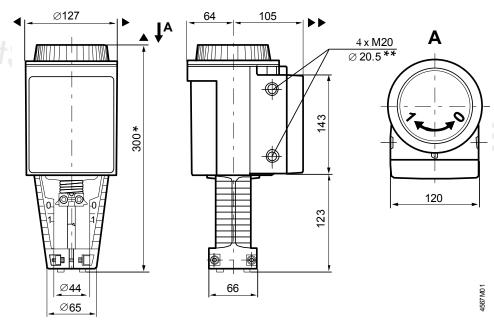
G (SP) System potential AC 24 V

G0 (SN) System neutral

Only with sequence control and the appropriate selector switch settings (see page 6)

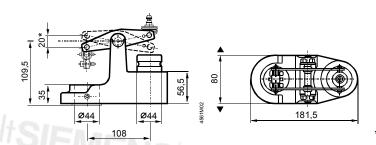
Dimensions

All dimensions in mm



- Height of actuator from valve plate without stroke inverter ASK50 = 300 mm Height of actuator from plate with stroke inverter ASK50 = 357 mm
- SKD..U with knockouts for standard ½" conduit connectors (Ø 21.5 mm)
- = > 100 mm Minimum clearance from ceiling or wall for mounting,
- = > 200 mm \ connection, operation, maintenance etc.

ASK50 stroke inverter



* Maximum stroke = 20 mm

Order numbers for replacement parts

	0	0	
	Cover	Hand control 1)	Control unit
Actuator type			100 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SKD32.50	410456348	426855048	
SKD32.51	410456348	426855048	
SKD32.21	410456348	426855048	
SKD82.50	410456348	426855048	
SKD82.50U	410456348	426855048	
SKD82.51	410456348	426855048	
SKD82.51U	410456348	426855048	
SKD62	410456348	426855048	466857488
SKD62U	410456348	426855048	466857488
SKD60	410456348	426855048	466857598
SKD62UA	410456348	426855048	466857518

¹⁾ hand control, blue with mechanical parts SIEMENS|BoltSIEMENS|BoltSIEMENS|BoltSIEMEN







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Subject to alteration