



VAV klappide juhtimine

<https://hooneautomaatika.ee/siemens>

SIEMENS

Contents

1 Damper actuators

- Overview and selection tools
- Air damper actuators
- VAV controller
- Actuators for fire and smoke protection dampers

Type Overview

Product no.	Product Title	Data sheet	Page
7442401250	Connection cable VAV to control panel with wire ends		52
7442401260	Connection cable VAV to AST20, 6 pins		55
7442403010	Connection cable VAV to AST20, 7 pins		52
ASC77.1E	External auxiliary switch assembly 1 switch	N4615	23
ASC77.2E	External auxiliary switch assembly 2 switches	N4615	23
ASK55.2	Clamp for linkage (5...8 mm dia.)	N4698	46
ASK71.01	Accessory Kit, GEB/GMA		23
ASK71.02	Accessory Kit, GIB/GBB/GCA		25
ASK71.03	Mounting Bracket, GM		25
ASK71.04	Mounting Bracket, BG		32
ASK71.05	Position Indicator, BG		32
ASK71.06	Standard Shaft Adapter, GM		25
ASK71.07	Mounting Bracket, GS		23
ASK71.08	Mounting Bracket, BG, short		32
ASK71.1	Rotary/linear mounting kit for duct mounting	N4699	25
ASK71.11	Rotary/linear mounting kit for duct or frame mounting	N4697	23
ASK71.13	Rotary/linear mounting kit with lever and bracket	N4697	23
ASK71.14	Rotary/linear mounting kit with lever	N4697	23
ASK71.19	Turnkey for manual adjustment		25
ASK71.2	Rotary/linear mounting kit for frame mounting	N4699	25
ASK71.20	Turnkey for manual adjustment		25
ASK71.21	Centering insert 2 x square 10 mm		32
ASK71.3	Rotary/linear mounting kit with lever	N4699	25
ASK71.4	Rotary/linear mounting kit with lever and bracket	N4699	25
ASK71.5	Rotary/linear mounting kit	N4698	32
ASK71.6	Rotary/linear mounting kit with bracket	N4698	32
ASK71.9	Universal lever	N4697	23
ASK73.1	Bracket for power pack	N4699	25
ASK73.2	Flexible bracket for power pack	N4699	25
ASK74.1	Special shaft adapter	N4699	25
ASK74.12	Standard Shaft adapter, GEB/GMA, complete		23
ASK74.13	Shaft adapter, GS, square, 15mm, complete		23
ASK74.14	Shaft adapter, GS, square, 12mm		23
ASK74.15	Shaft adapter, GEB/GMA, square, 10mm, complete		23
ASK74.16	Shaft adapter, GS, square, 8mm		23
ASK74.17	Shaft adapter, GM, square, 15mm		23
ASK74.18	Shaft adapter, GM, square, 12mm		25
ASK74.19	Shaft adapter, GM, square, 10mm		25
ASK74.20	Shaft adapter, GM, square, 8mm		25
ASK74.23	Shaft Adapter for GSD/GPC		25
ASK74.7	Shaft extension	N4699	23
ASK75.1	Weather shield for rotary actuator	N4699	25
ASK75.3	Weather shield	N4697	23
ASK75.4	Weather shield for rotarytype actuator GBB/GCA/GIB...1E	N4699	25
ASK75.5	Weather shield for rotary-/linear-type actuator GDB/GLB/GSF...E	N4698	32
ASK75.6	Weather shield for rotary-/linear-type actuator GMA/GEB...E	N4697	23
ASK78.10	Centering insert 12 mm dia.	N4698	32
ASK78.12	Centering insert D-profile fixed 12 mm dia. x 9 mm	N4698	32
ASK78.14	Centering insert 8 mm square	N4698	32
ASK78.3	Insert for small shaft dia.	N4698	32
ASK78.5	Centering insert 12.7 mm dia. (½")	N4698	32
ASK78.6	Centering insert 8 mm square	N4698	32
ASK78.7	Centering insert 10 mm square	N4698	32
ASK78.9	Centering insert 10 mm dia.	N4698	32

Product no.	Product Title	Data sheet	Page
ASK79.4	Duct tip for temperature monitor unit (72 °C)	N4697	58
ASK79.5	Duct tip for temperature monitor unit (95 °C)	N4697	58
AST20	Handheld tool for VAV compact controllers	A6V10631836	52
AST22	Interface Converter USB/PPS2	A6V11236956	52
ASV181.1E/3	VAV modular controller	N3545	56
DXA.T50	Air tube connection kit 50mm DXA.T50		47
DXR1.E02PLZ-112	Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, pressure sensor, VAV011 (VAV012)	A6V11393935	49
DXR1.E09PDZ-112	Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, VAV044	A6V11393931	49
DXR1.E09PDZ-112/CA	Compact actuating room automation station DXR1.E09PDZ-..	A6V11393931	49
DXR1.E09PDZ-113	Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, FPB052	A6V11393931	49
DXR1.E09PLZ-112	Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, VAV044	A6V11393931	49
DXR1.E10PL-112	Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, VAV045	A6V11393933	50
DXR1.E10PL-113	Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, FPB053	A6V11393933	50
DXR1.M09PDZ-112	Compact, configurable room automation station and actuator combination, BACnet/MSTP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, VAV044	A6V11393929	51
DXR1.M09PDZ-113	Compact, configurable room automation station and actuator combination, BACnet/MSTP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, FPB052	A6V11393929	51
DXR1.M09PLZ-112	Compact, configurable room automation station and actuator combination, BACnet/MSTP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, VAV044	A6V11393929	51
DXR2.E10PL-102B	Compact room automation station and actuator combination, BACnet/IP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 30 data points	A6V11259958	47
DXR2.E10PLX-102B	Compact room automation station, BACnet/IP, 24 V, DIN housing, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 60 data points	A6V11259958	47
DXR2.M10PL-102B	Compact room automation station and actuator combination, BACnet/MSTP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 30 data points	A6V11259964	48
DXR2.M10PLX-102B	Compact room automation station, BACnet/MSTP, 24 V, DIN housing, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 60 data points	A6V11259964	48
GAP191.1E	Rotary air damper actuator, AC/DC 24 V, DC 0(2)...10 V/ 0(4)...20 mA, 6 Nm, 2 s	N4608	44
GAP191.1E/IHT	Rotary air damper actuators 6 Nm, without electronic fail-save function	A6V11991159	44
GAP196.1E	Rotary air damper actuator, AC/DC 24 V, DC 0(2)...10 V/ 0(4)...20 mA, 6 Nm, 2 s, 2 auxiliary switches	N4608	44
GBB131.1E	Rotary air damper actuator, AC 24 V, 3-position, 25 Nm, 150 s	N4626	37
GBB135.1E	Rotary air damper actuator, AC 24 V, 3-position, 25 Nm, 150 s, 2 auxiliary switches, potentiometer	N4626	37
GBB136.1E	Rotary air damper actuator, AC 24 V, 3-position, 25 Nm, 150 s, 2 auxiliary switches	N4626	37
GBB161.1E	Rotary air damper actuator, AC 24 V, DC 0...10 V, 25 Nm, 150 s	N4626	37
GBB163.1E	Rotary air damper actuator, AC 24 V, DC 0...35 V adjustable, 25 Nm, 150 s	N4626	37
GBB164.1E	Rotary air damper actuator, AC 24 V, DC 0...35 V adjustable, 25 Nm, 150 s, 2 auxiliary switches	N4626	37
GBB166.1E	Rotary air damper actuator, AC 24 V, DC 0...10 V, 25 Nm, 150 s, 2 auxiliary switches	N4626	37
GBB331.1E	Rotary air damper actuator, AC 230 V, 3-position, 25 Nm, 150 s	N4626	37
GBB335.1E	Rotary air damper actuator, AC 230 V, 3-position, 25 Nm, 150 s, 2 auxiliary switches, potentiometer	N4626	37
GBB336.1E	Rotary air damper actuator, AC 230 V, 3-position, 25 Nm, 150 s, 2 auxiliary switches	N4626	37
GCA121.1E	Rotary air damper actuator, AC/DC 24 V, 2-position, 18 Nm, spring return 90/15 s	N4613	25
GCA126.1E	Rotary air damper actuator, AC/DC 24 V, 2-position, 18 Nm, spring return 90/15 s, 2 auxiliary switches	N4613	25
GCA131.1E	Rotary air damper actuator, AC/DC 24 V, 3-position, 18 Nm, spring return 90/15 s	N4613	25
GCA135.1E	Rotary air damper actuator, AC/DC 24 V, 3-position, 18 Nm, spring return 90/15 s, 2 auxiliary switches, potentiometer	N4613	25
GCA161.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...10 V, 18 Nm, spring return 90/15 s	N4613	25

Type Overview

Product no.	Product Title	Data sheet	Page
GCA161.1E/MO	Rotary air damper actuator, AC/DC 24 V, Modbus RTU, 18 Nm, spring return 90/15 s	A6V101037201	25
GCA161.1H	Rotary air damper actuators 18 Nm, with spring return	N4613 / A6V101037201	25
GCA163.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...35 V adjustable, 18 Nm, spring return 90/15 s	N4613	25
GCA164.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...35 V adjustable, 18 Nm, spring return 90/15 s, 2 auxiliary switches	N4613	25
GCA166.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...10 V, 18 Nm, spring return 90/15 s, 2 auxiliary switches	N4613	25
GCA321.1E	Rotary air damper actuator, AC 230 V, 2-position, 18 Nm, spring return 90/15 s	N4613	25
GCA326.1E	Rotary air damper actuator, AC 230 V, 2-position, 18 Nm, spring return 90/15 s, 2 auxiliary switches	N4613	25
GCA326.1H	Rotary air damper actuators 18 Nm, with spring return	N4613 / A6V101037201	25
GDA141.1E/RW	Air damper actuators for railway vehicles, DC 24 V, 2-position/3-position, 5 Nm, 90 s	A6V10636280	40
GDA142.1E/RW	Air damper actuators for railway vehicles, DC 24 V, 2-position/3-position, 5 Nm, 90 s	A6V10636280	40
GDA146.1E	Air damper actuators GDA146.1E	A6V11997021	29
GDA146.1E/RW	Air damper actuators for railway vehicles, DC 24 V, 2-position/3-position, 5 Nm, 90 s, 2 Auxiliary switches	A6V10636280	40
GDA161.1E/RW	Air damper actuators for railway vehicles, DC 24 V, DC 0/2... 10V, 5 Nm, 90 s	A6V10636293	40
GDB111.1E/KN	Rotary air damper actuators 5 Nm, without spring return	A6V11566316	30
GDB111.1E/MO	Rotary air damper actuator, AC 24 V, 5 Nm with Modbus RTU communication	A6V10881141	30
GDB131.2E	Linear air damper actuator, AC 24 V, 3-position, 125 N, 150 s	N4664	45
GDB141.1E	Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 5 Nm, 150 s	A6V10636149	30
GDB141.1E	Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 5 Nm, 150 s	A6V10636149_en AP	30
GDB141.1E/09H	Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 5 Nm, 150 s	A6V10636149	32
GDB142.1E	Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 5 Nm, 150 s, potentiometer	A6V10636149	30
GDB142.1E	Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 5 Nm, 150 s, potentiometer	A6V10636149_en AP	30
GDB146.1E	Rotary air damper actuator, AC/ DC 24 V, 2-position/3-position, 5 Nm, 150 s, 2 auxiliary switches	A6V10636149	30
GDB146.1E	Rotary air damper actuator, AC/ DC 24 V, 2-position/3-position, 5 Nm, 150 s, 2 auxiliary switches	A6V10636149_en AP	30
GDB161.1E	Rotary air damper actuator, AC/DC 24 V, DC 0/2... 10 V, 5 Nm, 150 s	A6V10636149	30
GDB161.1E	Rotary air damper actuator, AC/DC 24 V, DC 0/2... 10 V, 5 Nm, 150 s	A6V10636149_en AP	30
GDB161.1E/09H	Rotary air damper actuator, AC/DC 24 V, DC 0/2... 10 V, 5 Nm, 150 s	A6V10636149	32
GDB161.2E	Linear air damper actuator, AC 24 V, DC 0...10 V, 125 N, 150 s	N4664	45
GDB163.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...35 V adjustable, 5 Nm, 150 s	A6V10636149	30
GDB163.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...35 V adjustable, 5 Nm, 150 s	A6V10636149_en AP	30
GDB163.2E	Linear air damper actuator, AC 24 V, DC 0...35 V adjustable, 125 N, 150 s	N4664	45
GDB164.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...35 V adjustable, 5 Nm, 150 s, 2 auxiliary switches	A6V10636149	30
GDB164.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...35 V adjustable, 5 Nm, 150 s, 2 auxiliary switches	A6V10636149_en AP	30
GDB166.1E	Rotary air damper actuator, AC/DC 24 V, DC 0/2... 10 V, 5 Nm, 150 s, 2 auxiliary switches	A6V10636149	30
GDB166.1E	Rotary air damper actuator, AC/DC 24 V, DC 0/2... 10 V, 5 Nm, 150 s, 2 auxiliary switches	A6V10636149_en AP	30
GDB181.1E/3	VAV compact controller, AC 24 V, DC 0... 10 V, 5 Nm, 150 s, 300 Pa	N3544	55
GDB181.1E/KN	VAV compact controller KNX, AC 24 V, 5 Nm, 150 s, 300 Pa	N3547	52
GDB181.1E/MO	VAV compact controller Modbus, AC 24 V, 5 Nm, 150 s, 300 Pa	A6V10631832	54
GDB181.1EMKN	VAV compact controller KNX, multipack 18 pcs. incl. ASK78.12	N3547	52

Product no.	Product Title	Data sheet	Page
GDB331.2E	Linear air damper actuator, AC 230 V, 3-position, 125 N, 150 s	N4664	45
GDB336.2E	Linear air damper actuator, AC 230 V, 3-position, 125 N, 150 s, 2 auxiliary switches	N4664	45
GDB341.1E	Rotary air damper actuator, AC 230 V, 2-position/3-position, 5 Nm, 150 s	A6V10636149	30
GDB341.1E	Rotary air damper actuator, AC 230 V, 2-position/3-position, 5 Nm, 150 s	A6V10636149_en AP	30
GDB341.1E/09H	Rotary air damper actuator, AC 230 V, 2-position/3-position, 5 Nm, 150 s	A6V10636149	32
GDB346.1E	Rotary air damper actuator, AC 230 V, 2-position/3-position, 5 Nm, 150 s, 2 auxiliary switches	A6V10636149	30
GDB346.1E	Rotary air damper actuator, AC 230 V, 2-position/3-position, 5 Nm, 150 s, 2 auxiliary switches	A6V10636149_en AP	30
GDB361.1E	Rotary air damper actuator, AC 230 V, DC 0/2... 10 V, 5 Nm, 150 s	A6V10636149_en AP	30
GDB361.1E	Rotary air damper actuator, AC 230 V, DC 0/2... 10 V, 5 Nm, 150 s	A6V10636149	30
GDB361.1G	Rotary air damper actuators 5 Nm, without spring return	A6V10636149 / A6V10881141	30
GDD141.1E/RW	Air damper actuators for railway vehicles, DC 24 V, 2-position/3-position, 5 Nm, 30 s	A6V10636280	40
GDD142.1E/RW	Air damper actuators for railway vehicles, DC 24 V, 2-position/3-position, 5 Nm, 30 s, potentiometer	A6V10636280	40
GDD146.1E/RW	Air damper actuators for railway vehicles, DC 24 V, 2-position/3-position, 5 Nm, 30 s, 2 Auxiliary switches	A6V10636280	40
GDD161.1E/RW	Air damper actuators for railway vehicles, DC 24 V, DC 0/2... 10V, 5 Nm, 30 s	A6V10636293	40
GDD241.1E/RW	Air damper actuators for railway vehicles 5 Nm, without spring return	A6V12632194	40
GDD242.1E/RW	Air damper actuators for railway vehicles 5 Nm, without spring return	A6V12632194	40
GDD246.1E/RW	Air damper actuators for railway vehicles 5 Nm, without spring return	A6V12632194	40
GDD261.1E/RW	Air damper actuators for railway vehicles 5 Nm, without spring return	A6V12632198	40
GEB141.1E	Rotary air damper actuators 20 Nm, without spring return	A6V11449860	35
GEB142.1E	Rotary air damper actuators 20 Nm, without spring return, Potentiometer	A6V11449860	35
GEB146.1E	Rotary air damper actuators 20 Nm, without spring return	A6V11449860	35
GEB161.1E	Rotary air damper actuators 20 Nm, without spring return	A6V11449860	35
GEB161.1E/MO	Rotary air damper actuators 20 Nm, Modbus RTU, without spring return	A6V101037253	35
GEB163.1E	Rotary air damper actuators 20 Nm, without spring return	A6V11449860	35
GEB164.1E	Rotary air damper actuators 20 Nm, without spring return	A6V11449860	35
GEB166.1E	Rotary air damper actuators 20 Nm, without spring return	A6V11449860	35
GEB341.1E	Rotary air damper actuators 20 Nm, without spring return	A6V11449860	35
GEB346.1E	Rotary air damper actuators 20 Nm, without spring return	A6V11449860	35
GEB361.1E	Rotary air damper actuators 20 Nm, without spring return	A6V11449860	35
GGA126.1E/10	Actuator for fire protection dampers, AC/DC 24 V, 2-position, 18 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 10 x 10 mm	N4617	61
GGA126.1E/12	Actuator for fire protection dampers, AC/DC 24 V, 2-position, 18 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12 x 12 mm	N4617	61
GGA126.1E/C10	Actuators for fire protection dampers	N4617	61
GGA126.1E/C12	Actuators for fire protection dampers	N4617	61
GGA126.1E/T10	Actuator for fire protection dampers, AC/DC 24 V, 2-position, 18 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 10 x 10 mm, with thermosensor	N4617	61
GGA126.1E/T12	Actuator for fire protection dampers, AC/DC 24 V, 2-position, 18 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12 x 12 mm, with thermosensor	N4617	61
GGA326.1E/10	Actuator for fire protection dampers, AC 230 V, 2-position, 18 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 10 x 10 mm	N4617	61
GGA326.1E/12	Actuator for fire protection dampers, AC 230 V, 2-position, 18 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12 x 12 mm	N4617	61
GGA326.1E/T10	Actuator for fire protection dampers, AC 230 V, 2-position, 18 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 10 x 10 mm, with thermosensor	N4617	61
GGA326.1E/T12	Actuator for fire protection dampers, AC 230 V, 2-position, 18 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12 x 12 mm, with thermosensor	N4617	61
GIB131.1E	Rotary air damper actuator, AC 24 V, 3-position, 35 Nm, 150 s	N4626	38

Type Overview

Product no.	Product Title	Data sheet	Page
GIB135.1E	Rotary air damper actuator, AC 24 V, 3-position, 35 Nm, 150 s, 2 auxiliary switches, potentiometer	N4626	38
GIB136.1E	Rotary air damper actuator, AC 24 V, 3-position, 35 Nm, 150 s, 2 auxiliary switches	N4626	38
GIB161.1E	Rotary air damper actuator, AC 24 V, DC 0...10 V, 35 Nm, 150 s	N4626	38
GIB161.1E/MO	Rotary air damper actuator, AC 24 V, Modbus RTU, 35 Nm, 150 s without spring return	A6V101037253	38
GIB163.1E	Rotary air damper actuator, AC 24 V, DC 0...35 V adjustable, 35 Nm, 150 s	N4626	38
GIB164.1E	Rotary air damper actuator, AC 24 V, DC 0...35 V adjustable, 35 Nm, 150 s, 2 auxiliary switches	N4626	38
GIB166.1E	Rotary air damper actuator, AC 24 V, DC 0...10 V, 35 Nm, 150 s, 2 auxiliary switches	N4626	38
GIB331.1E	Rotary air damper actuator, AC 230 V, 3-position, 35 Nm, 150 s	N4626	38
GIB335.1E	Rotary air damper actuator, AC 230 V, 3-position, 35 Nm, 150 s, 2 auxiliary switches, potentiometer	N4626	38
GIB336.1E	Rotary air damper actuator, AC 230 V, 3-position, 35 Nm, 150 s, 2 auxiliary switches	N4626	38
GLA141.1E/RW	Air damper actuators for railway vehicles, DC 24 V, 2-position/3-position, 10 Nm, 90 s	A6V10636286	42
GLA142.1E/RW	Air damper actuators for railway vehicles, DC 24 V, 2-position/3-position, 10 Nm, 90 s	A6V10636286	42
GLA146.1E/RW	Air damper actuators for railway vehicles, DC 24 V, 2-position/3-position, 10 Nm, 90 s, 2 Auxiliary switches	A6V10636286	42
GLA161.1E/RW	Air damper actuators for railway vehicles, DC 24 V, DC 0/2...10V, 10 Nm, 90 s	A6V10636299	42
GLB111.1E/KN	Rotary air damper actuators 10 Nm, without spring return	A6V11566316	33
GLB111.1E/MO	Rotary air damper actuator, AC 24 V, 10 Nm, 150 s with Modbus RTU communication	A6V10881141	33
GLB131.2E	Linear air damper actuator, AC 24 V, 3-position, 250 N, 150 s	N4664	46
GLB136.2E	Linear air damper actuator, AC 24 V, 3-position, 250 N, 150 s, 2 auxiliary switches	N4664	46
GLB141.1E	Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 10 Nm, 150 s	A6V10636202_en AP	33
GLB141.1E	Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 10 Nm, 150 s	A6V10636202	33
GLB141.1E/09H	Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 10 Nm, 150 s	A6V10636202	35
GLB141.1H	Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 10 Nm, 150 s	A6V10636202	34
GLB142.1E	Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 10 Nm, 150 s, potentiometer	A6V10636202_en AP	33
GLB142.1E	Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 10 Nm, 150 s, potentiometer	A6V10636202	33
GLB146.1E	Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 10 Nm, 150 s, 2 auxiliary switches	A6V10636202	33
GLB146.1E	Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 10 Nm, 150 s, 2 auxiliary switches	A6V10636202_en AP	33
GLB161.1E	Rotary air damper actuator, AC/DC 24 V, DC 0/2...10 V, 10 Nm, 150 s	A6V10636202_en AP	33
GLB161.1E	Rotary air damper actuator, AC/DC 24 V, DC 0/2...10 V, 10 Nm, 150 s	A6V10636202	33
GLB161.1E/09H	Rotary air damper actuator, AC/DC 24 V, DC 0/2...10 V, 10 Nm, 150 s	A6V10636202	35
GLB161.2E	Linear air damper actuator, AC 24 V, DC 0...10 V, 250 N, 150 s	N4664	46
GLB163.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...35 V adjustable, 10 Nm, 150 s	A6V10636202_en AP	33
GLB163.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...35 V adjustable, 10 Nm, 150 s	A6V10636202	33
GLB163.2E	Linear air damper actuator, AC 24 V, DC 0...35 V adjustable, 250 N, 150 s	N4664	46
GLB164.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...35 V adjustable, 10 Nm, 150 s, 2 auxiliary switches	A6V10636202_en AP	33
GLB164.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...35 V adjustable, 10 Nm, 150 s, 2 auxiliary switches	A6V10636202	33
GLB166.1E	Rotary air damper actuator, AC/DC 24 V, DC 0/2...10 V, 10 Nm, 150 s, 2 auxiliary switches	A6V10636202_en AP	33
GLB166.1E	Rotary air damper actuator, AC/DC 24 V, DC 0/2...10 V, 10 Nm, 150 s, 2 auxiliary switches	A6V10636202	33
GLB181.1E/3	VAV compact controller, AC 24 V, DC 0...10 V, 10 Nm, 150 s, 300 Pa	N3544	55
GLB181.1E/BA	VAV compact controller BACnet, AC 24 V, 10 Nm, 150 s, 300 Pa	A6V10631834	53
GLB181.1E/KN	VAV compact controller KNX, AC 24 V, 10 Nm, 150 s, 300 Pa	N3547	52
GLB181.1E/MO	VAV compact controller Modbus, AC 24 V, 10 Nm, 150 s, 300 Pa	A6V10631832	54

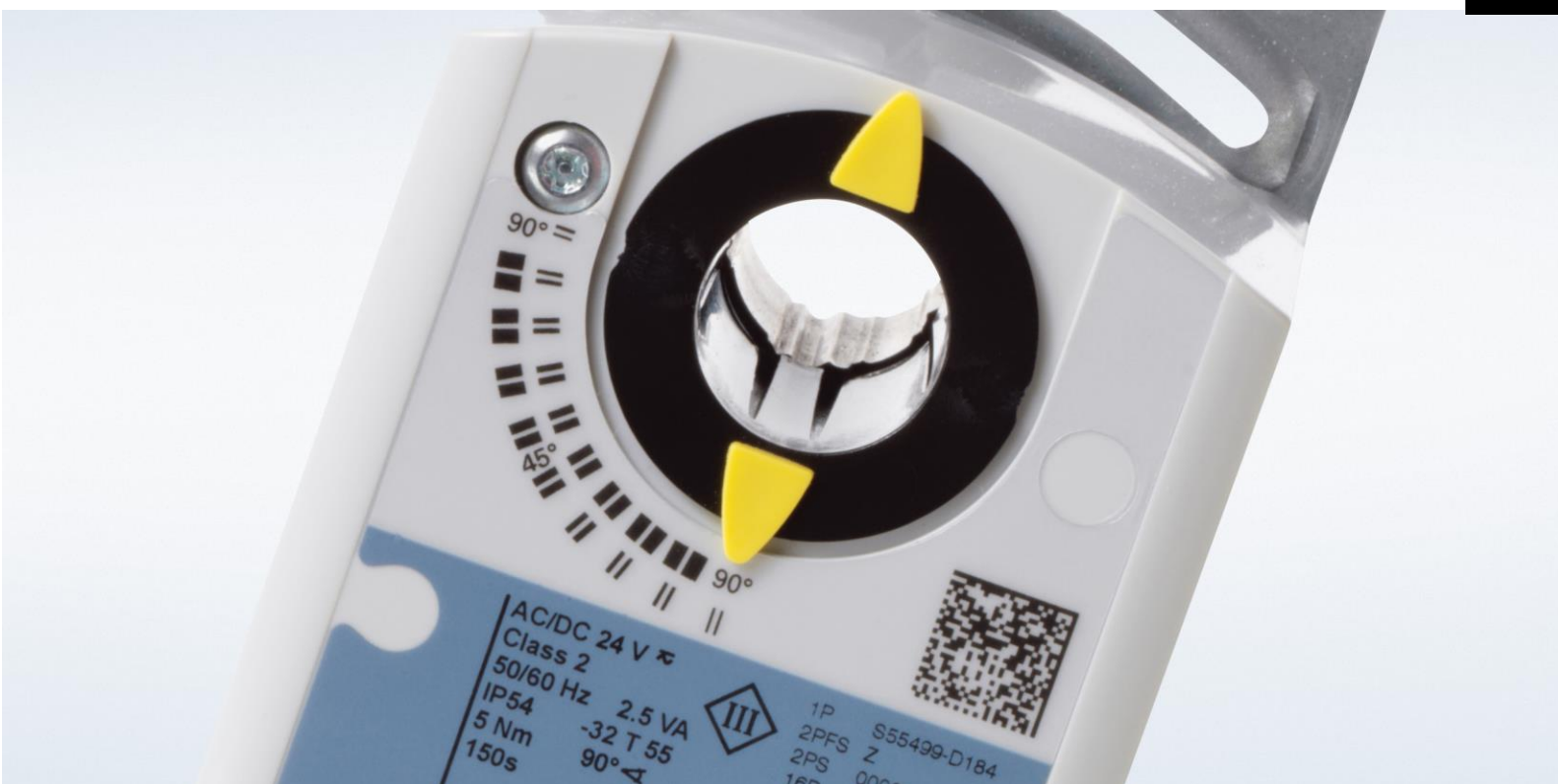
Product no.	Product Title	Data sheet	Page
GLB181.1EM3	VAV compact controller, AC 24 V, 10 Nm, 150 s, Multipack	A6V10636202 / A6V10881141	33
GLB181.1EMKN	VAV compact controller, AC 24 V, 10 Nm, Multipack with KNX	A6V10636202 / A6V10881141	33
GLB331.2E	Linear air damper actuator, AC 230 V, 3-position, 250 N, 150 s	N4664	46
GLB336.2E	Linear air damper actuator, AC 230 V, 3-position, 250 N, 150 s, 2 auxiliary switches	N4664	46
GLB341.1E	Rotary air damper actuator, AC 230 V, 2-position/3-position, 10 Nm, 150 s	A6V10636202_en AP	33
GLB341.1E	Rotary air damper actuator, AC 230 V, 2-position/3-position, 10 Nm, 150 s	A6V10636202	33
GLB341.1E/09H	Rotary air damper actuator, AC 230 V, 2-position/3-position, 10 Nm, 150 s	A6V10636202	35
GLB346.1E	Rotary air damper actuator, AC 230 V, 2-position/3-position, 10 Nm, 150 s, 2 auxiliary switches	A6V10636202_en AP	33
GLB346.1E	Rotary air damper actuator, AC 230 V, 2-position/3-position, 10 Nm, 150 s, 2 auxiliary switches	A6V10636202	33
GLB361.1E	Rotary air damper actuator, AC 230 V, DC 0/2...10 V, 10 Nm, 150 s	A6V10636202_en AP	33
GLB361.1E	Rotary air damper actuator, AC 230 V, DC 0/2...10 V, 10 Nm, 150 s	A6V10636202	33
GLD141.1E/RW	Air damper actuators for railway vehicles, DC 24 V, 2-position/3-position, 8 Nm, 30 s	A6V10636286	41
GLD142.1E/RW	Air damper actuators for railway vehicles, DC 24 V, 2-position/3-position, 8 Nm, 30 s, potentiometer	A6V10636286	41
GLD146.1E/RW	Air damper actuators for railway vehicles, DC 24 V, 2-position/3-position, 8 Nm, 30 s, 2 Auxiliary switches	A6V10636286	41
GLD161.1E/RW	Air damper actuators for railway vehicles, DC 24 V, DC 0/2...10V, 8 Nm, 30 s	A6V10636299	41
GLD241.1E/RW	Air damper actuators for railway vehicles 8 Nm, without spring return	A6V12632202	41
GLD242.1E/RW	Air damper actuators for railway vehicles 8 Nm, without spring return	A6V12632202	41
GLD246.1E/RW	Air damper actuators for railway vehicles 8 Nm, without spring return	A6V12632202	41
GLD261.1E/RW	Air damper actuators for railway vehicles 8 Nm, without spring return	A6V12632206	41
GMA121.1E	Rotary air damper actuator, AC/DC 24 V, 2-position, 7 Nm, spring return 90/15 s	N4614	23
GMA126.1E	Rotary air damper actuator, AC/DC 24 V, 2-position, 7 Nm, spring return 90/15 s, 2 auxiliary switches	N4614	23
GMA131.1E	Rotary air damper actuator, AC/DC 24 V, 3-position, 7 Nm, spring return 90/15 s	N4614	23
GMA136.1E	Rotary air damper actuator, AC/DC 24 V, 3-position, 7 Nm, spring return 90/15 s, 2 auxiliary switches	N4614	23
GMA161.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...10 V, 7 Nm, spring return 90/15 s	N4614	23
GMA161.1E/MO	Rotary air damper actuator, AC/DC 24 V, Modbus RTU, 7 Nm, spring return 90/15 s	A6V101037201	23
GMA163.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...35 V adjustable, 7 Nm, spring return 90/15 s	N4614	23
GMA164.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...35 V adjustable, 7 Nm, spring return 90/15 s, 2 auxiliary switches	N4614	23
GMA166.1E	Rotary air damper actuator, AC/DC 24 V, DC 0...10 V, 7 Nm, spring return 90/15 s, 2 auxiliary switches	N4614	23
GMA321.1E	Rotary air damper actuator, AC 230 V, 2-position, 7 Nm, spring return 90/15 s	N4614	23
GMA326.1E	Rotary air damper actuator, AC 230 V, 2-position, 7 Nm, spring return 90/15 s, 2 auxiliary switches	N4614	23
GNA126.1E/10	Actuator for fire protection dampers, AC/DC 24 V, 2-position, 9 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 10 x 10 mm	N4620	59
GNA126.1E/12	Actuator for fire protection dampers, AC/DC 24 V, 2-position, 9 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12 x 12 mm	N4620	59
GNA126.1E/12A	Actuator for fire protection dampers, AC/DC 24 V, 2-position, 9 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12 x 12 mm	N4620	59
GNA126.1E/C10	Actuators for fire protection dampers, AC/DC 24 V, 2-position, 9 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 10 x 10 mm, with thermosensor	N4620	59
GNA126.1E/C12	Actuators for fire protection dampers	N4620	59
GNA126.1E/H12	Actuators for fire protection dampers	N4620	59
GNA126.1E/T10	Actuator for fire protection dampers, AC/DC 24 V, 2-position, 9 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 10 x 10 mm, with thermosensor	N4620	59

Type Overview

Product no.	Product Title	Data sheet	Page
GNA126.1E/T12	Actuator for fire protection dampers, AC/DC 24 V, 2-position, 9 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12 x 12 mm, with thermosensor	N4620	59
GNA166.1E/T12	Actuators for fire protection dampers	A6V11465149	59
GNA326.1E/10	Actuator for fire protection dampers, AC 230 V, 2-position, 9 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 10x10 mm	N4620	59
GNA326.1E/12	Actuator for fire protection dampers, AC 230 V, 2-position, 9 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12x12 mm	N4620	59
GNA326.1E/12A	Actuator for fire protection dampers, AC 230 V, 2-position, 9 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12x12 mm, with thermosensor	N4620	59
GNA326.1E/T10	Actuator for fire protection dampers, AC 230 V, 2-position, 9 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 10x10 mm, with thermosensor	N4620	59
GNA326.1E/T12	Actuator for fire protection dampers, AC 230 V, 2-position, 9 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12x12 mm, with thermosensor	N4620	59
GNP191.1E	Rotary air damper actuator, AC/DC 24 V, DC 0(2)...10 V / 0(4)...20 mA, 6 Nm, 2 s, with electronic fail-save function	N4609	43
GNP196.1E	Rotary air damper actuator, AC/DC 24 V, DC 0(2)...10 V / 0(4)...20 mA, 6 Nm, 2 s, with electronic fail-save function, 2 auxiliary switches	N4609	43
GPC121.1A	Rotary air damper actuator, AC/DC 24 V, 2-position, 4 Nm, spring return 60/15 s	A6V10636100	22
GPC121.1A/RW	Air damper actuators for railway vehicles, 4 Nm, with spring return	A6V12575992	27
GPC126.1A	Rotary air damper actuator, AC/DC 24 V, 2-position, 4 Nm, spring return 60/15 s, 2 auxiliary switches	A6V10636100	22
GPC126.1A/RW	Air damper actuators for railway vehicles, 4 Nm, with spring return	A6V12575992	27
GPC131.1A	Rotary air damper actuator, AC/DC 24 V, 3-position, 4 Nm, spring return 60/15 s	A6V10636100	22
GPC136.1A	Rotary air damper actuator, AC/DC 24 V, 3-position, 4 Nm, spring return 60/15 s, 2 auxiliary switches	A6V10636100	22
GPC161.1A	Rotary air damper actuator, AC/DC 24 V, DC 0...10 V, 4 Nm, spring return 60/15 s	A6V10636100	22
GPC161.1A/RW	Air damper actuators for railway vehicles, 4 Nm, with spring return	A6V12575992	27
GPC166.1A	Rotary air damper actuator, AC/DC 24 V, DC 0...10 V, 4 Nm, spring return 60/15 s, 2 auxiliary switches	A6V10636100	22
GPC221.1A/RW	Air damper actuators for railway vehicles, 4 Nm, with spring return	A6V12575999	27
GPC226.1A/RW	Air damper actuators for railway vehicles, 4 Nm, with spring return	A6V12575999	27
GPC261.1A/RW	Air damper actuators for railway vehicles, 4 Nm, with spring return	A6V12575999	27
GPC321.1A	Rotary air damper actuator, AC 230 V, 2-position, 4 Nm, spring return 60/15 s	A6V10636100	22
GPC326.1A	Rotary air damper actuator, AC 230 V, 2-position, 4 Nm, spring return 60/15 s, 2 auxiliary switches	A6V10636100	22
GPC361.1A	Rotary air damper actuator, AC 230 V, DC 0...10 V, 4 Nm, spring return 60/15 s	A6V10636100	22
GQD121.1A	Rotary air damper actuator, AC/DC 24 V, 2-position, 2 Nm, spring return 30/15 s	N4604	21
GQD126.1A	Rotary air damper actuator, AC/DC 24 V, 2-position, 2 Nm, spring return 30/15 s, 2 auxiliary switches	N4604	21
GQD131.1A	Rotary air damper actuator, AC/DC 24 V, 3-position, 2 Nm, spring return 30/15 s	N4604	21
GQD136.1A	Rotary air damper actuator, AC/DC 24 V, 3-position, 2 Nm, spring return, 30/15 s, 2 auxiliary switches	N4604	21
GQD161.1A	Rotary air damper actuator, AC/DC 24 V, DC 0...10 V, 2 Nm, spring return 30/15 s	N4604	21
GQD166.1A	Rotary air damper actuator, AC/DC 24 V, DC 0...10 V, 2 Nm, spring return 30/15 s, 2 auxiliary switches	N4604	21
GQD321.1A	Rotary air damper actuator, AC 230 V, 2-position, 2 Nm, spring return 30/15 s	N4604	21
GQD326.1A	Rotary air damper actuator, AC 230 V, 2-position, 2 Nm, spring return 30/15 s, 2 auxiliary switches	N4604	21
GRA126.1E/10	Actuator for fire protection dampers, AC/DC 24 V, 2-position, 4 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 10 x 10 mm	A6V10888424	57
GRA126.1E/12	Actuator for fire protection dampers, AC/DC 24 V, 2-position, 4 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12 x 12 mm	A6V10888424	57
GRA126.1E/12A	Actuator for fire protection dampers, AC/DC 24 V, 2-position, 4 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12 x 12 mm	A6V10888424	57
GRA126.1E/C12	Actuators for fire protection dampers	A6V10888424	57
GRA126.1E/T10	Actuator for fire protection dampers, AC/DC 24 V, 2-position, 4 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 10 x 10 mm, with thermosensor	A6V10888424	57

Product no.	Product Title	Data sheet	Page
GRA126.1E/T12	Actuator for fire protection dampers, AC/DC 24 V, 2-position, 4 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12 x 12 mm, with thermosensor	A6V10888424	57
GRA326.1E/10	Actuator for fire protection dampers, AC 230 V, 2-position, 4 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 10 x 10 mm	A6V10888424	57
GRA326.1E/12	Actuator for fire protection dampers, AC 230 V, 2-position, 4 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12 x 12 mm	A6V10888424	57
GRA326.1E/12A	Actuators for fire protection dampers	A6V10888424	57
GRA326.1E/T10	Actuator for fire protection dampers, AC 230 V, 2-position, 4 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 10 x 10 mm, with thermosensor	A6V10888424	57
GRA326.1E/T12	Actuator for fire protection dampers, AC 230 V, 2-position, 4 Nm, spring return 90/15 s, 2 auxiliary switches, shaft 12 x 12 mm, with thermosensor	A6V10888424	57
GSD141.1A	Rotary air damper actuators, AC/DC 24 V, 2 Nm, 30 s	A6V10636055	28
GSD146.1A	Rotary air damper actuators, AC/DC 24 V, 2 Nm, 30 s, 2 auxiliary switches	A6V10636055	28
GSD161.1A	Rotary air damper actuators, AC/DC 24 V, 2 Nm, 30 s	A6V10636055	28
GSD166.1A	Rotary air damper actuators, AC/DC 24 V, 2 Nm, 30 s, 2 auxiliary switches	A6V10636055	28
GSD341.1A	Rotary air damper actuators, AC 240 V, 2 Nm, 30 s	A6V10636055	28
GSD346.1A	Rotary air damper actuators, AC 240 V, 2 Nm, 30 s, 2 auxiliary switches	A6V10636055	28
GSD361.1A	Rotary air damper actuators, AC 240 V, 2 Nm, 30 s	A6V10636055	28

Damper actuators



Overview and selection tools	14
Air damper actuators	- Rotary damper actuators with spring return 21 - Rotary damper actuators with spring return for railway application 27 - Rotary damper actuators non-spring return 28 - Rotary damper actuators non-spring return for railway application 40 - Fast-running damper actuators with fail safe function 43 - Fast-running damper actuators fail-in-place 44 - Linear damper actuators 45
VAV controller	- Compact room automation stations BACnet/IP DXR2.E.. 47 - Compact room automation stations BACnet/MSTP DXR2.M.. 48 - Compact room automation stations BACnet/IP DXR1.E.. 49 - Compact room automation stations BACnet/MSTP DXR1.M.. 51 - VAV compact controllers with KNX PL-Link communication 52 - VAV compact controllers with BACnet MS/TP communication 53 - VAV compact controllers with Modbus RTU communication 54 - VAV compact controllers 55 - VAV modular controllers 56
Actuators for fire and smoke protection dampers	Fire damper actuators 57

Damper actuators

Overview and selection tools



New: 5-year warranty on valves and actuators, damper actuators, and sensors.

Actuators for HVAC applications

Actuators for HVAC applications	Control signal	Operating voltage	Standard model	Feedback potentiometer (1 kOhm)	Adjustable offset/span	Adjustable offset/span with two auxiliary switches	Feedback (1 kOhm) with two auxiliary switches	Two auxiliary switches	Dimensions, round damper shaft (mm)	Dimensions, square damper shaft (mm)
	GQD series 2 Nm for approx. 0.3 m² damper area 30 s run time 15 s SR time	2-position	AC/DC 24 V	GQD121.1A	–	–	–	GQD126.1A	8...15	6...11
		AC 230 V		GQD321.1A	–	–	–	GQD326.1A		
		3-position	AC/DC 24 V	GQD131.1A	–	–	–	GQD136.1A		
		Modulating DC 0...10 V		GQD161.1A	–	–	–	GQD166.1A		
	GPC series 4 Nm for approx. 0.6 m² damper area 60 s run time 15 s SR time	2-position	AC/DC 24 V	GPC121.1A	–	–	–	GPC126.1A	8...15	6...11
		AC 230 V		GPC321.1A	–	–	–	GPC326.1A		
		3-position	AC/DC 24 V	GPC131.1A	–	–	–	GPC136.1A		
		Modulating DC 0...10 V		GPC161.1A	–	–	–	GPC166.1A		
		Modulating DC 0...10 V	AC 230 V	GPC361.1A	–	–	–	–		
	GNP series 6 Nm for approx. 1 m² damper area 2 s run time el. fail-safe function	2-position	AC/DC 24 V	GNP191.1E	–	–	–	GNP196.1E	6.4...20.5	6.4...13
		3-position								
		Modulating DC 0/2...10 V 0/4...20 mA	AC/DC 24 V	GNP191.1E	–	–	–	GNP196.1E		
	GMA series 7 Nm for approx. 1.5 m² damper area 90 s run time 15 s SR time	2-position	AC/DC 24 V	GMA121.1E	–	–	–	GMA126.1E	6.4...20.5	6.4...13
		AC 230 V		GMA321.1E	–	–	–	GMA326.1E		
		3-position	AC/DC 24 V	GMA131.1E	GMA132.1E	–	–	GMA136.1E		
		Modulating DC 0...10 V		GMA161.1E	–	GMA163.1E	GMA164.1E	GMA166.1E		
		Modbus RTU	AC/DC 24 V	GMA161.1E/MO	–	–	–	–		
	GCA series 18 Nm for approx. 3 m² damper area 90 s run time 15 s SR time	2-position	AC/DC 24 V	GCA121.1E	–	–	–	GCA126.1E	8...25.6	6...18
		AC 230 V		GCA321.1E	–	–	–	GCA326.1E		
		3-position	AC/DC 24 V	GCA131.1E	–	–	GCA135.1E	–		
		Modulating DC 0...10 V		GCA161.1E	–	GCA163.1E	GCA164.1E	GCA166.1E		
		Modbus RTU	AC/DC 24 V	GCA161.1E/MO	–	–	–	–		

Actuators for HVAC applications

Actuators for HVAC applications	Control signal	Operating voltage	Standard model	Feedback potentiometer (5 kOhm)	Adjustable offset/ span	Adjustable offset/ span with two auxiliary switches	Feedback (1 kOhm) with two auxiliary switches	Two auxiliary switches	Dimensions, round damper shaft (mm)	Dimensions, square damper shaft (mm)
	GSD series 2 Nm for approx. 0.3 m² damper area 30 s run time	2-position	AC/DC 24 V	GSD141.1A	–	–	–	GSD146.1A	8...15	6...11
		3-position	AC 230 V	GSD341.1A	–	–	–	GSD346.1A		
		Modulating DC 0...10 V	AC/DC 24 V	GSD161.1A	–	–	–	GSD166.1A		
		Modulating DC 0...10 V	AC 230 V	GSD361.1A	–	–	–	–		
	GDB series 5 Nm for approx. 0.8 m² damper area 150 s run time	2-position	AC/DC 24 V	GDB141.1E	GDB142.1E	–	–	GDB146.1E	8...16	6...12.8
		3-position	AC 230 V	GDB341.1E	–	–	–	GDB346.1E		
		Modulating DC 0...10 V	AC/DC 24 V	GDB161.1E	–	GDB163.1E	GDB164.1E	GDB166.1E		
		Modbus RTU	AC 230 V	GDB361.1E	–	–	–	–		
		Modbus RTU	AC 24 V	GDB111.1E/MO	–	–	–	–		
	GLB series 10 Nm for approx. 1.5 m² damper area 150 s run time	2-position	AC/DC 24 V	GLB141.1E	GLB142.1E	–	–	GLB146.1E	8...16	6...12.8
		3-position	AC 230 V	GLB341.1E	–	–	–	GLB346.1E		
		Modulating DC 0...10 V	AC/DC 24 V	GLB161.1E	–	GLB163.1E	GLB164.1E	GLB166.1E		
		Modbus RTU	AC 230 V	GLB361.1E	–	–	–	–		
		Modbus RTU	AC 24 V	GLB111.1E/MO	–	–	–	–		
	GAP series 6 Nm for approx. 1 m² damper area 2 s run time	2-position	AC/DC 24 V	GAP191.1E	–	–	–	GAP196.1E	6.4...20.5	6.4...13
		3-position	AC/DC 24 V	GAP191.1E	–	–	–	GAP196.1E		
		Modulating DC 0/2...10 V	AC/DC 24 V	GAP191.1E	–	–	–	GAP196.1E		
	GEB series 20 Nm for approx. 4 m² damper area 150 s run time	2-position	AC/DC 24 V	GEB141.1E	GEB142.1E	–	–	GEB146.1E	8...20.5	8...14.5
		3-position	AC 230 V	GEB341.1E	–	–	–	GEB346.1E		
		Modulating DC 0...10 V	AC/DC 24 V	GEB161.1E	–	GEB163.1E	GEB164.1E	GEB166.1E		
		Modbus RTU	AC 230 V	GEB361.1E	–	–	–	–		
	GBB series 25 Nm for approx. 4 m² damper area 150 s run time	3-position	AC 24 V	GBB131.1E	–	–	–	GBB135.1E	8...25.6	6...18
		3-position	AC 230 V	GBB331.1E	–	–	–	GBB335.1E		
		Modulating DC 0...10 V	AC 24 V	GBB161.1E	–	GBB163.1E	GBB164.1E	GBB166.1E		
	GIB series 35 Nm for approx. 6 m² damper area 150 s run time	3-position	AC 24 V	GIB131.1E	–	–	–	GIB135.1E	8...25.6	6...18
		3-position	AC 230 V	GIB331.1E	–	–	–	GIB335.1E		
		Modulating DC 0...10 V	AC 24 V	GIB161.1E	–	GIB163.1E	GIB164.1E	GIB166.1E		
		Modbus RTU	AC 24 V	GIB161.1E/MO	–	–	–	–		
	GDB series 125 N for approx. 0.8 m² damper area 150 s run time	3-position	AC 24 V	GDB131.2E	–	–	–	GDB136.2E	–	–
		3-position	AC 230 V	GDB331.2E	–	–	–	GDB336.2E		
		Modulating DC 0...10 V	AC 24 V	GDB161.2E	–	GDB163.2E	–	–		
	GLB series 250 N for approx. 1.5 m² damper area 150 s run time	3-position	AC 24 V	GLB131.2E	–	–	–	GLB136.2E	–	–
		3-position	AC 230 V	GLB331.2E	–	–	–	GLB336.2E		
		Modulating DC 0...10 V	AC 24 V	GLB161.2E	–	GLB163.2E	–	–		

Damper actuators

Overview and selection tools

Actuators for air volume controllers

Actuators for air volume controllers 300 Pa application range		Control signal	Operating voltage	Standard model	Input/Output	Dimensions, round damper shaft (mm)	Dimen- sions, square damper shaft (mm)
	GDB 300 Pa VAV compact controller 5 Nm for approx. 0.8 m² damper area 150 s running time	3-position	AC 24 V	GDB181.1E/3		8...16	6...12.8
		Modulating DC 0/2...10 V		GDB181.1E/KN			
		KNX S-Mode, KNX LTE-Mode, KNX PL-Link					
		Modbus RTU					
		BACnet MS/TP					
	GLB 300 Pa VAV compact controller 10 Nm for approx. 1.5 m² damper area 150 s running time	3-position	AC 24 V	GLB181.1E/3		8...16	6...12.8
		Modulating DC 0/2...10 V		GLB181.1E/KN			
		KNX S-Mode, KNX LTE-Mode, KNX PL-Link					
		Modbus RTU					
		BACnet MS/TP					
	ASV 300 Pa VAV modular controller	3-position	AC 24 V	ASV181.1E/3		–	–
	Modulating DC 0/2...10 V						
	DXR1..D.. Compact room automation station and 5 Nm actuator combination for HVAC application	BACnet/IP	AC 24 V	DXR1.E09PDZ-112	2 UI, 4 DO, 1 AO	8...16	6...12.8
		BACnet/IP		DXR1.E09PDZ-113			
		BACnet MS/TP		DXR1.M09PDZ-112			
		BACnet MS/TP		DXR1.M09PDZ-113			
	DXR1..L.. Compact room automation station and 10 Nm actuator combination for HVAC application	BACnet/IP	AC 24 V	DXR1.E02PLZ-112	–	8...16	6...12.8
		BACnet/IP KNX PL-Link		DXR1.E10PL-112	2 UI, 1 DI, 4 DO, 1AO		
		BACnet/IP KNX PL-Link		DXR1.E10PL-113			
	DXR2..L.. Compact room automation station and 10 Nm actuator combination for HVAC application with lighting and shading	BACnet/IP KNX S-Mode KNX PL-Link	AC 24 V	DXR2.E10PL-102B	2 UI, 1 DI, 4 DO, 1 AO	8...16	6...12.8
		BACnet/IP KNX S-Mode KNX PL-Link		DXR2.E10PLX-102B			
		BACnet MS/TP KNX S-Mode KNX PL-Link		DXR2.M10PL-102B			
		BACnet MS/TP KNX S-Mode KNX PL-Link		DXR2.M10PLX-102B			

Actuators for fire and smoke protection dampers

Actuators for fire and smoke protection dampers	Control signal	Operating voltage	2 auxiliary switches	2 auxiliary switches and thermal cutout	Dimensions, square damper shaft (mm)
 GRA actuator 4 Nm for approx. 0.6 m ² damper area 90 s running time 15 s spring return time	2-position	AC/DC 24 V AC 230 V	GRA126.1E/... ¹⁾ GRA326.1E/... ¹⁾	GRA126.1E/T... ¹⁾ GRA326.1E/T... ¹⁾	10, 12
 GNA actuator 9/7 Nm for approx. 1 m ² damper area 90 s running time 15 s spring return time	2-position	AC/DC 24 V AC 230 V	GNA126.1E/... ¹⁾ GNA326.1E/... ¹⁾	GNA126.1E/T... ¹⁾ GNA326.1E/T... ¹⁾	10, 12
	Modulating DC 0/2...10 V	AC/DC 24 V		GNA166.1E/T12	12
 GGA actuator 18 Nm for approx. 2.5 m ² damper area 90 s running time 15 s spring return time	2-position	AC/DC 24 V AC 230 V	GGA126.1E/... ¹⁾ GGA326.1E/... ¹⁾	GGA126.1E/T... ¹⁾ GGA326.1E/T... ¹⁾	10, 12

¹⁾ .. = insert dimension of square damper shaft (mm)

Actuators for railway applications

Actuators for railway applications	Control signal	Operating voltage	Standard model	Feedback potentiometer	2 integrated auxiliary switches	Rotary direction switch
 GDD series 5 Nm 30 s run time	Modulating DC 0/2...10 V	DC 24 V	GDD161.1E/RW	–	–	Yes
	2-position 3-position		GDD141.1E/RW	GDD142.1E/RW	GDD146.1E/RW	
 GDA series 5 Nm 90 s run time	Modulating DC 0/2...10 V	DC 24 V	GDA161.1E/RW	–	–	Yes
	2-position 3-position		GDA141.1E/RW	GDA142.1E/RW	GDA146.1E/RW	
 GLD series 8 Nm 30 s run time	Modulating DC 0/2...10 V	DC 24 V	GLD161.1E/RW	–	–	Yes
	2-position 3-position		GLD141.1E/RW	GLD142.1E/RW	GLD146.1E/RW	
 GLA series 10 Nm 90 s run time	Modulating DC 0/2...10 V	DC 24 V	GLA161.1E/RW	–	–	Yes
	2-position 3-position		GLA141.1E/RW	GLA142.1E/RW	GLA146.1E/RW	

Damper actuators

Overview and selection tools

Accessories for actuators

Description	GDB/ GLB	GEB/ GMA	GCA/GIB GBB	Type reference
 Rotary-to-linear set with lever Allows a direct-coupled actuator to provide a linear drive; can be used to simultaneously drive a set of opposing or adjacent dampers with a single actuator.	■			ASK71.5
 Rotary-to-linear set with lever Allows a direct-coupled actuator to provide an auxiliary linear drive; can be used to simultaneously drive a set of opposing or adjacent dampers with a single actuator.		■	■	ASK71.13 ASK71.3
 Rotary-to-linear set with lever and angle bracket For use in applications where the actuator can be rigidly surface-mounted and a linear stroke output is required.	■			ASK71.6
 Rotary-to-linear set with lever and mounting plate For use in applications where the actuator can be rigidly surface-mounted and a linear stroke output is required.		■	■	ASK71.14 ASK71.4
 Universal lever For use with all OpenAir rotary-to-linear kits for linear applications requiring connection to damper louver shaft when joint connection is not possible. For 8 to 25.6 mm round.	■	■	■	ASK71.9
 Tandem mounting bracket Tandem mounting bracket for 2-position and 3-position GCA/GIB models Tandem mounting bracket for modulating GCA/GIB models		■	■ ■	ASK73.3 ASK73.1 ASK73.2
 Rotary-to-linear set for duct mounting For airstream applications and where a foot-mounted actuator can be used. Includes crank arm, Teflon support-bearing ring and mounting fasteners. Rotary-to-linear set for duct and frame mounting	■	■	■	ASK71.6 ASK71.1 ASK71.11

Description	GDB/ GLB	GEB/ GMA	GCA/GIB GBB	Type reference
 Rotary-to-linear set for frame mounting For direct mounting to damper frame. Includes a crank arm to generate a linear stroke, a Teflon support-bearing ring to minimize side-loading on the actuator's output bearing and other mounting fasteners. Rotary-to-linear set for duct and frame mounting			■	ASK71.2
 Rotary-to-linear set for duct and frame mounting		■		ASK71.11
 Special shaft adapter Up to 27 mm shaft diameter Note: When used with a GIB, accepts shaft diameters from 19 to 27 mm			■	ASK74.1
 Actuator shaft insert for small shaft diameters Up to 10 mm diameter	■			ASK78.3
 Weathershield Includes cover, gasket and screws.	■	■	■	ASK75.3 ASK75.1 ASK75.4 ASK75.6 ASK75.5 ASK75.2
 Shaft extension		■	■	ASK74.7
 Setting unit for VAV compact controller for GDB/GLB/ASV181.1E/..	■			AST20
 Interface converter (USB/PPS2) for VAV compact controller Interface converter for use with G..B181.1E/.. for series E and higher to use PC software ACS931/ACS941 etc.	■			AST22

Damper actuators

Overview and selection tools

Description	GDB/ GLB	GEB/ GMA	GCA/GIB GBB	Type reference
 External auxiliary switches External auxiliary switch kit, attachable to GCA, GMA, GEB, GBB and GIB rotary actuators - 1 external auxiliary switch - 2 external auxiliary switches		■ ■	■ ■	ASC77.1E ASC77.2E
 Shaft inserts for GDB/GLB...1 - Round 1/2" - Square 8 x 8 mm - Square 8 x 8 mm fix - Square 10 x 10 mm - Round 10 mm - Round 12 mm - D-profile fix	■ ■ ■ ■ ■ ■ ■			ASK78.5 ASK78.6 ASK78.14 ASK78.7 ASK78.9 ASK78.10 ASK78.12

For accessories and spare parts for air damper actuators, please order data sheet:
 N4697 (GMA/GEB) /GRA/GNA
 N4698 (GDB/GLB)
 N4699 (GCA/GBB/GIB) GGA

Damper actuators

Air damper actuators

Rotary damper actuators with spring return

Rotary air damper actuators 2 Nm, with spring return

GQD..1A

- For shaft dia 8...15 mm, square 6...11 mm, min. shaft length 20 mm
- With housing made of plastic and 0.9 m connecting cable

Data sheet	N4604
Torque	2 Nm
Air damper area	0.3 m ²
Positioning time	Open with motor: 30 s Closing with spring: 15 s
Cable length	0.9 m
Degree of protection	IP40
Dimensions (W x H x D)	73 x 122 x 63 mm
Warranty	5 Years



Range overview GQD..1A

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Stock no.	Product no.
AC/DC 24	2-position	6.5 VA 4.5 W	0	BPZ:GQD121.1A	GQD121.1A
AC/DC 24	2-position	6.5 VA 4.5 W	2	BPZ:GQD126.1A	GQD126.1A
AC/DC 24	3-position	4 VA 2.5 W	0	BPZ:GQD131.1A	GQD131.1A
AC/DC 24	3-position	4 VA 2.5 W	2	BPZ:GQD136.1A	GQD136.1A
AC/DC 24	DC 0...10 V	4.5 VA 3 W	0	BPZ:GQD161.1A	GQD161.1A
AC/DC 24	DC 0...10 V	4.5 VA 3 W	2	BPZ:GQD166.1A	GQD166.1A
AC 230	2-position	10 VA 4.5 W	0	BPZ:GQD321.1A	GQD321.1A
AC 230	2-position	10 VA 4.5 W	2	BPZ:GQD326.1A	GQD326.1A

Damper actuators

Air damper actuators

Rotary damper actuators with spring return

GPC..1



Rotary air damper actuators 4 Nm, with spring return

- With self-centering shaft adapter for shaft dia. 8...15 mm, square 6...11 mm, min. shaft length 20 mm
- With position indication
- Emergency function with spring return
- With 0.9 m connecting cable

Data sheet	A6V10636100
Torque	4 Nm
Air damper area	0.6 m ²
Positioning time	Open with motor: 60 s Closing with spring: 15 s
Cable length	0.9 m
Degree of protection	IP54
Dimensions (W x H x D)	72 x 124 x 63 mm
Warranty	5 Years

Range overview GPC..1

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Spring return function	Stock no.	Product no.
AC/DC 24	2-position	4.3 VA 2.7 W	0	Yes	S55499-D233	GPC121.1A
AC/DC 24	2-position	4.3 VA 2.7 W	2	Yes	S55499-D234	GPC126.1A
AC/DC 24	3-position	4.3 VA 2.7 W	0	Yes	S55499-D235	GPC131.1A
AC/DC 24	3-position	4.3 VA 2.7 W	2	Yes	S55499-D236	GPC136.1A
AC/DC 24	DC 0...10 V	3.7 VA 2.2 W	0	Yes	S55499-D237	GPC161.1A
AC/DC 24	DC 0...10 V	3.7 VA 2.2 W	2	Yes	S55499-D238	GPC166.1A
AC 230	2-position	6.9 VA 2.9 W	0	Yes	S55499-D239	GPC321.1A
AC 230	2-position	6.9 VA 2.9 W	2	Yes	S55499-D240	GPC326.1A
AC 230	DC 0...10 V	6.7 VA 2.9 W	0	Yes	S55499-D241	GPC361.1A

Damper actuators

Air damper actuators

Rotary damper actuators with spring return

Rotary air damper actuators 7 Nm, with spring return

GMA..1E



- With self-centering shaft adapter for shaft dia. 6.4...20.5 mm, square 6.4...13 mm, min. shaft length 20 mm
- With position indication and adjustable mechanical limit stop
- Manual override
- With housing made of die-cast aluminium and 0.9 m connecting cable

Data sheet	N4614 / A6V101037201
Torque	7 Nm
Air damper area	1.5 m ²
Positioning time	Opening with motor: 90 s Closing with spring: 15 s
Degree of protection	IP54
Dimensions (W x H x D)	81 x 192 x 63 mm
Warranty	5 Years

Range overview GMA..1E

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Spring return function	Cable length [m]	Stock no.	Product no.
AC/DC 24	2-position	5 VA 3.5 W	0	Yes	0.9	BPZ:GMA121.1E	GMA121.1E
AC/DC 24	2-position	5 VA 3.5 W	2	Yes	0.9	BPZ:GMA126.1E	GMA126.1E
AC/DC 24	3-position	5 VA 3.5 W	0	Yes	0.9	BPZ:GMA131.1E	GMA131.1E
AC/DC 24	3-position	5 VA 3.5 W	2	Yes	0.9	BPZ:GMA136.1E	GMA136.1E
AC/DC 24	DC 0...10 V	5 VA 3.5 W	0	Yes	0.9	BPZ:GMA161.1E	GMA161.1E
AC/DC 24	Modbus RTU	5 VA 3.5 W	0	Yes	0.9	S55499-D300	GMA161.1E/MO
AC/DC 24	DC 0...35 V Adjustable	5 VA 3.5 W	0	Yes	0.9	BPZ:GMA163.1E	GMA163.1E
AC/DC 24	DC 0...35 V Adjustable	5 VA 3.5 W	2	Yes	0.9	BPZ:GMA164.1E	GMA164.1E
AC/DC 24	DC 0...10 V	5 VA 3.5 W	2	Yes	0.9	BPZ:GMA166.1E	GMA166.1E
AC 230	2-position	7 VA 4.5 W	0	Yes	0.9	BPZ:GMA321.1E	GMA321.1E
AC 230	2-position	7 VA 4.5 W	2	Yes	0.9	BPZ:GMA326.1E	GMA326.1E

Type GMA132.1E has a feedback potentiometer.
Basic Documentation No.: Z4614

Accessories for rotary air damper actuators GMA..1E

Product Title	Data sheet	Stock no.	Product no.
External auxiliary switch assembly 1 switch	N4615	BPZ:ASC77.1E	ASC77.1E
External auxiliary switch assembly 2 switches	N4615	BPZ:ASC77.2E	ASC77.2E
Accessory Kit, GEB/GMA		S55859-Z101	ASK71.01
Mounting Bracket, GS		S55859-Z118	ASK71.07
Rotary/linear mounting kit for duct or frame mounting	N4697	BPZ:ASK71.11	ASK71.11
Rotary/linear mounting kit with lever	N4697	BPZ:ASK71.14	ASK71.14
Universal lever	N4697	BPZ:ASK71.9	ASK71.9
Standard Shaft adapter, GEB/GMA, complete		S55859-Z103	ASK74.12
Shaft adapter, GS, square, 15mm, complete		S55859-Z104	ASK74.13
Shaft adapter, GS, square, 12mm		S55859-Z105	ASK74.14
Shaft adapter, GEB/GMA, square, 10mm, complete		S55859-Z106	ASK74.15

Damper actuators

Air damper actuators

Rotary damper actuators with spring return

Accessories for rotary air damper actuators GMA..1E

Product Title	Data sheet	Stock no.	Product no.
Shaft adapter, GS, square, 8mm		S55859-Z107	ASK74.16
Shaft adapter, GM, square, 15mm		S55859-Z108	ASK74.17
Shaft extension	N4699	BPZ:ASK74.7	ASK74.7
Weather shield	N4697	BPZ:ASK75.3	ASK75.3
Rotary/linear mounting kit with lever and bracket	N4697	BPZ:ASK71.13	ASK71.13
Weather shield for rotary-/linear-type actuator GMA/GEB...E	N4697	BPZ:ASK75.6	ASK75.6

Damper actuators

Air damper actuators

Rotary damper actuators with spring return

Rotary air damper actuators 18 Nm, with spring return

GCA..1E

- With self-centering shaft adapter for shaft dia. 8..25.6 mm, square 6...18 mm, min. shaft length 20 mm
- With position indication and adjustable mechanical limit stop
- Manual override
- With housing made of die-cast aluminium and 0.9 m connecting cable

Data sheet	N4613 / A6V101037201
Torque	18 Nm
Air damper area	3 m ²
Positioning time	Opening with motor: 90 s Closing with spring: 15 s
Degree of protection	IP54
Dimensions (W x H x D)	100 x 313 x 71 mm
Warranty	5 Years



Range overview GCA..1E

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Cable length [m]	Stock no.	Product no.
AC/DC 24	2-position	7 VA 5 W	0	0.9	BPZ:GCA121.1E	GCA121.1E
AC/DC 24	2-position	7 VA 5 W	2	0.9	BPZ:GCA126.1E	GCA126.1E
AC/DC 24	3-position	7 VA 5 W	0	0.9	BPZ:GCA131.1E	GCA131.1E
AC/DC 24	3-position	7 VA 5 W	2	0.9	BPZ:GCA135.1E	GCA135.1E
AC/DC 24	DC 0...10 V	7 VA 5 W	0	0.9	BPZ:GCA161.1E	GCA161.1E
AC/DC 24	Modbus RTU	7 VA 5 W	0	0.9	S55499-D301	GCA161.1E/MO
AC/DC 24	DC 0...10 V	7 VA 5 W	0		S55499-D502	GCA161.1H
AC/DC 24	DC 0...35 V Adjustable	7 VA 5 W	0	0.9	BPZ:GCA163.1E	GCA163.1E
AC/DC 24	DC 0...35 V Adjustable	7 VA 5 W	2	0.9	BPZ:GCA164.1E	GCA164.1E
AC/DC 24	DC 0...10 V	7 VA 5 W	2	0.9	BPZ:GCA166.1E	GCA166.1E
AC 230	2-position	8 VA 6 W	0	0.9	BPZ:GCA321.1E	GCA321.1E
AC 230	2-position	8 VA 6 W	2	0.9	BPZ:GCA326.1E	GCA326.1E
AC 230	2-position	8 VA 6 W	2		S55499-D503	GCA326.1H

Type GCA135.1E has a feedback potentiometer.
Basic Documentation No.: Z4613

Accessories for rotary air damper actuators GCA..1E

Product Title	Data sheet	Stock no.	Product no.
External auxiliary switch assembly 1 switch	N4615	BPZ:ASC77.1E	ASC77.1E
External auxiliary switch assembly 2 switches	N4615	BPZ:ASC77.2E	ASC77.2E
Standard Shaft Adapter, GM		S55859-Z117	ASK71.06
Rotary/linear mounting kit for duct mounting	N4699	BPZ:ASK71.1	ASK71.1
Turnkey for manual adjustment		S55859-Z121	ASK71.19
Turnkey for manual adjustment		S55859-Z122	ASK71.20
Rotary/linear mounting kit with lever and bracket	N4699	BPZ:ASK71.4	ASK71.4

Damper actuators

Air damper actuators

Rotary damper actuators with spring return

Accessories for rotary air damper actuators GCA..1E

Product Title	Data sheet	Stock no.	Product no.
Universal lever	N4697	BPZ:ASK71.9	ASK71.9
Bracket for power pack	N4699	BPZ:ASK73.1	ASK73.1
Shaft adapter, GM, square, 12mm		S55859-Z109	ASK74.18
Shaft adapter, GM, square, 10mm		S55859-Z110	ASK74.19
Shaft adapter, GM, square, 8mm		S55859-Z111	ASK74.20
Shaft extension	N4699	BPZ:ASK74.7	ASK74.7
Weather shield for rotary actuator	N4699	BPZ:ASK75.1	ASK75.1
Weather shield for rotarytype actuator GBB/GCA/GIB...1E	N4699	BPZ:ASK75.4	ASK75.4
Rotary/linear mounting kit for frame mounting	N4699	BPZ:ASK71.2	ASK71.2
Accessory Kit, GIB/GBB/GCA		S55859-Z102	ASK71.02
Rotary/linear mounting kit with lever	N4699	BPZ:ASK71.3	ASK71.3
Mounting Bracket, GM		S55859-Z114	ASK71.03
Flexible bracket for power pack	N4699	BPZ:ASK73.2	ASK73.2
Special shaft adapter	N4699	BPZ:ASK74.1	ASK74.1
Shaft Adapter for GSD/GPC		S55859-Z120	ASK74.23

Caution!

- ASK73.1 is only valid for GCA12..1E, GCA13..1E, GCA32..1E

- ASK73.2 is only valid for GCA16..1E

Rotary damper actuators with spring return for railway application

Air damper actuators for railway vehicles, 4 Nm, with spring return

GPC..1A/RW

- With self-centering shaft adapter for shaft dia. 8...15 mm, square 6...11 mm, min. shaft length 20 mm
- With position indication
- Emergency function with spring return
- With 0.9 m connecting cable

Torque	4 Nm
Air damper area	0.6 m ²
Positioning time	Opening with motor: 60 s Closing with spring: 15 s
Degree of protection	IP54
Dimensions (W x H x D)	72 x 124 x 63 mm
Warranty	5 Years

Range overview GPC..1A/RW

Operating voltage [V]	Positioning signal	Power consumption [W]	Auxiliary switch	Spring return function	Cable length [m]	Stock no.	Product no.
DC 24	2-position	2.7	0	Yes	0.9	S55499-D729	GPC121.1A/RW
DC 24	2-position	2.7	2	Yes	0.9	S55499-D730	GPC126.1A/RW
DC 24	DC 0/2...10 V	2.2	0	Yes	0.9	S55499-D731	GPC161.1A/RW
DC 110	2-position	2.3	0	Yes	0.9	S55499-D726	GPC221.1A/RW
DC 110	2-position	2.3	2	Yes	0.9	S55499-D727	GPC226.1A/RW
DC 110	2-position	2.3	0	Yes	0.9	S55499-D728	GPC261.1A/RW

Damper actuators

Air damper actuators

Rotary damper actuators non-spring return

GSD..1A



Rotary air damper actuators 2 Nm, without spring return

- Operate direct driven zone dampers used to control air flow in ducts specifically to address two position domestic and light commercial barrel damper applications.
- For shaft dia 8...15 mm, square 6...11 mm, min. shaft length 20 mm
- With housing made of plastic and 0.9 m connecting cable

Data sheet	N4603
Torque	2 Nm
Air damper area	0.3 m ²
Positioning time	30 s
Cable length	0.9 m
Degree of protection	IP40
Dimensions (W x H x D)	73 x 122 x 63 mm
Warranty	5 Years

Range overview GSD..1A

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Stock no.	Product no.
AC 24 DC 24...48	Open-close / three-position	2.2 VA 1.2 W	2	S55499-D227	GSD146.1A
AC 24 DC 24...48	DC 0/2...10 V	2.4 VA 1.4 W	0	S55499-D228	GSD161.1A
AC 24 DC 24...48	Open-close / three-position	2.2 VA 1.2 W	0	S55499-D281	GSD141.1A
AC 24 DC 24...48	DC 0/2...10 V	2.4 VA 1.4 W	2	S55499-D229	GSD166.1A
AC 100...240	Open-close / three-position	4.5 VA 1.8 W	0	S55499-D282	GSD341.1A
AC 100...240	Open-close / three-position	4.5 VA 1.8 W	2	S55499-D230	GSD346.1A
AC 100...240	DC 0/2...10 V	3.7 VA 1.4 W	0	S55499-D231	GSD361.1A

Damper actuators
Air damper actuators
Rotary damper actuators non-spring return

Air damper actuators GDA..1E**GDA..1E**

Electronic motor driven actuators for open-close, three-position and modulating control

- Nominal torque 5 Nm
- Operating voltage AC 24 V ~ / DC 24...48 V =
- Running time for 90° rotary angle 90 s
- Mechanically adjustable span between 0...90°
- Pre-wired with 0.9 m long connection cables
- Position indication: mechanical
- Self-adaption of rotational angle range and adjustable auxiliary switches for supplementary functions

Data sheet

A6V11997021

Degree of protection

IP 54 as per EN 60529

Warranty

5 Years

Range overview GDA..1E

Operating voltage	Power consumption [W]	Cable length [m]	Stock no.	Product no.
AC 24 V ~ / DC 24...48 V =	1.0 W / 2.0 VA 0.5	0.9	S55499-D638	GDA146.1E

Damper actuators

Air damper actuators

Rotary damper actuators non-spring return

GDB..1E



Rotary air damper actuators 5 Nm, without spring return

- For shaft dia. 8..16 mm, square 6...12 mm, min. shaft length 30 mm
- With position indication and adjustable mechanical limit stop
- Button for disengaging the gear train to enable manual override
- With base made of steel, plastic housing and 0.9 m connecting cable

Data sheet	A6V10636149 / A6V10881141
Torque	5 Nm
Air damper area	0.8 m ²
Positioning time	150 s
Cable length	0.9 m
Degree of protection	IP54
Dimensions (W x H x D)	68 x 137 x 59.5 mm
Warranty	5 Years

Range overview GDB..1E

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Stock no.	Product no.
AC 24	KNX TP	3 VA 2.5 W	0	S55499-D190	GDB111.1E/KN
AC 24	Modbus RTU	3 VA 2.5 W	0	S55499-D191	GDB111.1E/MO
AC/DC 24	2-position/3-position	2.5 VA 1.1 W	0	S55499-D377	GDB141.1E
AC/DC 24	2-position/3-position	2.5 VA 1.1 W	0	S55499-D184	GDB141.1E
AC/DC 24	2-position/3-position	2.5 VA 1.1 W	0	S55499-D378	GDB142.1E
AC/DC 24	2-position/3-position	2.5 VA 1.1 W	0	S55499-D185	GDB142.1E
AC/DC 24	2-position/3-position	2.5 VA 1.1 W	2	S55499-D379	GDB146.1E
AC/DC 24	2-position/3-position	2.5 VA 1.1 W	2	S55499-D186	GDB146.1E
AC/DC 24	DC 0/2...10 V	2.1 VA 1.2 W	0	S55499-D393	GDB161.1E
AC/DC 24	DC 0/2...10 V	2.1 VA 1.2 W	0	S55499-D266	GDB161.1E
AC/DC 24	DC 0...35 V Adjustable	2.1 VA 1.2 W	0	S55499-D394	GDB163.1E
AC/DC 24	DC 0...35 V Adjustable	2.1 VA 1.2 W	0	S55499-D267	GDB163.1E
AC/DC 24	DC 0...35 V Adjustable	2.1 VA 1.2 W	2	S55499-D395	GDB164.1E
AC/DC 24	DC 0...35 V Adjustable	2.1 VA 1.2 W	2	S55499-D268	GDB164.1E
AC/DC 24	DC 0/2...10 V	3.3 VA 1.3 W	2	S55499-D396	GDB166.1E
AC/DC 24	DC 0/2...10 V	3.3 VA 1.3 W	2	S55499-D269	GDB166.1E
AC 230	2-position/3-position	5 VA 1.6 W	0	S55499-D380	GDB341.1E
AC 230	2-position/3-position	5 VA 1.6 W	0	S55499-D187	GDB341.1E
AC 230	2-position/3-position	5 VA 1.6 W	2	S55499-D381	GDB346.1E
AC 230	2-position/3-position	5 VA 1.6 W	2	S55499-D188	GDB346.1E

Damper actuators
Air damper actuators
Rotary damper actuators non-spring return

Range overview GDB..1E

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Stock no.	Product no.
AC 230	DC 0/2...10 V	2.1 VA 1.2 W	0	S55499-D189	GDB361.1E
AC 230	DC 0/2...10 V	2.1 VA 1.2 W	0	S55499-D382	GDB361.1E
AC 230	DC 0/2...10 V	2.1 VA 1.2 W	0	S55499-D504	GDB361.1G

Type GDB142.1E has a feedback potentiometer.

Typ GDB361.1G has a cable length of 2.5m.

Basic Documentation No.: A6V10636139.

Additional variants of actuators can be configured in Product Configurator.

Damper actuators

Air damper actuators

Rotary damper actuators non-spring return

GDB..1E/09H



Rotary air damper actuators 5 Nm, without spring return

- For shaft dia. 8..16 mm, square 6...12 mm, min. shaft length 30 mm
- With position indication and adjustable mechanical limit stop
- Button for disengaging the gear train to enable manual override
- With base made of steel, plastic housing and 0.9 m halogenfree connecting cable
- One extra screw in the package (to set lower limitation)

Data sheet	A6V10636149
Torque	5 Nm
Air damper area	0.8 m ²
Positioning time	150 s
Degree of protection	IP54
Dimensions (W x H x D)	68 x 137 x 59.5 mm
Warranty	5 Years

Range overview GDB..1E/09H

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Cable length [m]	Stock no.	Product no.
AC/DC 24	2-position/3-position	2.5 VA 1.1 W	0	0.9	S55499-D360	GDB141.1E/09H
AC/DC 24	DC 0/2...10 V	2.1 VA 1.2 W	0	0.9	S55499-D362	GDB161.1E/09H
AC 230	2-position/3-position	5.0 VA 1.6 W	0	0.9	S55499-D361	GDB341.1E/09H

Accessories for rotary air damper actuators GDB..1E and GLB..1E

Product Title	Data sheet	Stock no.	Product no.
Mounting Bracket, BG		S55859-Z115	ASK71.04
Position Indicator, BG		S55859-Z116	ASK71.05
Mounting Bracket, BG, short		S55859-Z119	ASK71.08
Centering insert 2 x square 10 mm		S55859-Z123	ASK71.21
Rotary/linear mounting kit	N4698	BPZ:ASK71.5	ASK71.5
Rotary/linear mounting kit with bracket	N4698	BPZ:ASK71.6	ASK71.6
Universal lever	N4697	BPZ:ASK71.9	ASK71.9
Centering insert D-profile fixed 12 mm dia. x 9 mm	N4698	BPZ:ASK78.12	ASK78.12
Insert for small shaft dia.	N4698	BPZ:ASK78.3	ASK78.3
Weather shield for rotary-/linear-type actuator GDB/GLB/GSF...E	N4698	BPZ:ASK75.5	ASK75.5
Centering insert 12.7 mm dia. (½")	N4698	BPZ:ASK78.5	ASK78.5
Centering insert 8 mm square	N4698	BPZ:ASK78.6	ASK78.6
Centering insert 10 mm square	N4698	BPZ:ASK78.7	ASK78.7
Centering insert 10 mm dia.	N4698	BPZ:ASK78.9	ASK78.9
Centering insert 12 mm dia.	N4698	BPZ:ASK78.10	ASK78.10
Centering insert 8 mm square	N4698	BPZ:ASK78.14	ASK78.14

Damper actuators

Air damper actuators

Rotary damper actuators non-spring return

Rotary air damper actuators 10 Nm, without spring return

GLB..1E

- For shaft dia. 8..16 mm, square 6...12 mm, min. shaft length 30 mm
- With position indication and adjustable mechanical limit stop
- Button for disengaging the gear train to enable manual override
- With base made of steel, plastic housing and 0.9 m connecting cable

Data sheet	A6V10636202 / A6V10881141
Torque	10 Nm
Air damper area	1.5 m ²
Positioning time	150 s
Cable length	0.9 m
Degree of protection	IP54
Dimensions (W x H x D)	68 x 137 x 59.5 mm
Warranty	5 Years



Range overview GLB..1E

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Stock no.	Product no.
AC 24	KNX TP	3 VA 2.5 W	0	S55499-D198	GLB111.1E/KN
AC 24	Modbus RTU	3 VA 2.5 W	0	S55499-D199	GLB111.1E/MO
AC/DC 24	2-position/3-position	2 VA 1.3 W	0	S55499-D385	GLB141.1E
AC/DC 24	2-position/3-position	2 VA 1.3 W	0	S55499-D192	GLB141.1E
AC/DC 24	2-position/3-position	2 VA 1.3 W	0	S55499-D386	GLB142.1E
AC/DC 24	2-position/3-position	2 VA 1.3 W	0	S55499-D193	GLB142.1E
AC/DC 24	2-position/3-position	2 VA 1.3 W	2	S55499-D387	GLB146.1E
AC/DC 24	2-position/3-position	2 VA 1.3 W	2	S55499-D194	GLB146.1E
AC/DC 24	DC 0/2...10 V	2.5 VA 1.5 W	0	S55499-D270	GLB161.1E
AC/DC 24	DC 0/2...10 V	2.5 VA 1.5 W	0	S55499-D398	GLB161.1E
AC/DC 24	DC 0...35 V Adjustable	2.5 VA 1.5 W	0	S55499-D399	GLB163.1E
AC/DC 24	DC 0...35 V Adjustable	2.5 VA 1.5 W	0	S55499-D271	GLB163.1E
AC 24	DC 0...35 V Adjustable	2.5 VA 1.5 W	2	S55499-D400	GLB164.1E
AC/DC 24	DC 0...35 V Adjustable	2.5 VA 1.5 W	2	S55499-D272	GLB164.1E
AC/DC 24	DC 0/2...10 V	2.5 VA 1.5 W	2	S55499-D273	GLB166.1E
AC/DC 24	DC 0/2...10 V	2.5 VA 1.5 W	2	S55499-D401	GLB166.1E
AC 24				BPZ:GLB181.1EM3	GLB181.1EM3
AC 24				S55499-D263	GLB181.1EMKN
AC 230	2-position/3-position	5.8 VA 1.9 W	0	S55499-D388	GLB341.1E
AC 230	2-position/3-position	5.8 VA 1.9 W	0	S55499-D195	GLB341.1E

Damper actuators

Air damper actuators

Rotary damper actuators non-spring return

Range overview GLB..1E

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Stock no.	Product no.
AC 230	2-position/3-position	5.8 VA 1.9 W	2	S55499-D389	GLB346.1E
AC 230	2-position/3-position	5.8 VA 1.9 W	2	S55499-D196	GLB346.1E
AC 230	DC 0/2...10 V	4 VA 1.6 W	0	S55499-D197	GLB361.1E
AC 230	DC 0/2...10 V	4 VA 1.6 W	0	S55499-D390	GLB361.1E

Type GLB142.1E has a feedback potentiometer.

Type GLB161.1H has a cable length of 5m.

Basic Documentation No.: A6V10636196.

Additional variants of actuators can be configured in Product Configurator.

GLB141.1H

Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 10 Nm, 150 s

- For shaft dia. 8..16 mm, square 6...12 mm, min. shaft length 30 mm
- With position indication and adjustable mechanical limit stop
- Button for disengaging the gear train to enable manual override
- With base made of steel, plastic housing and 5.0 m connecting cable

Data sheet	A6V10636202
Torque	10 Nm
Air damper area	1.5 m ²
Angular rotation	90°
Power consumption	2 VA 1.3 W
Positioning time	150 s
Cable length	5 m
Positioning signal	2-position/3-position
Degree of protection	IP54
Ambient humidity, operation	95 % r.h.
Dimensions (W x H x D)	68 x 137 x 59.5 mm
Operating voltage	AC/DC 24 V
Auxiliary switch	0
Warranty	5 Years

Stock no.	Product no.
S55499-D443	GLB141.1H

Damper actuators

Air damper actuators

Rotary damper actuators non-spring return

Rotary air damper actuators 10 Nm, without spring return

GLB..1E/09H

- For shaft dia. 8..16 mm, square 6...12 mm, min. shaft length 30 mm
- With position indication and adjustable mechanical limit stop
- Button for disengaging the gear train to enable manual override
- With base made of steel, plastic housing and 0.9 m halogenfree connecting cable
- One extra screw in the package (to set lower limitation)

Data sheet	A6V10636202
Torque	10 Nm
Air damper area	1.5 m ²
Positioning time	150 s
Degree of protection	IP54
Dimensions (W x H x D)	68 x 137 x 59.5 mm
Warranty	5 Years



Range overview GLB..1E/09H

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Cable length [m]	Stock no.	Product no.
AC/DC 24	2-position/3-position	2 VA 1.3 W	0	0.9	S55499-D357	GLB141.1E/09H
AC/DC 24	DC 0/2...10 V	2.5 VA 1.5 W	0	0.9	S55499-D359	GLB161.1E/09H
AC 230	2-position/3-position	5.8 VA 1.9 W	0	0.9	S55499-D358	GLB341.1E/09H

Rotary air damper actuators 20 Nm, without spring return

GEB..1E / GEB..9E

- With self-centering shaft adapter for shaft dia. 8...20.5 mm, square 8...14.5 mm, min. shaft length 20 mm
- With position indication and adjustable mechanical limit stop
- Button for disengaging the gear train to enable manual control
- With housing made of die-cast aluminium and 0.9 m connecting cable

Data sheet	A6V11449860
Torque	20 Nm
Air damper area	4 m ²
Angular rotation	90°
Positioning time	150 s
Degree of protection	IP54
Dimensions (W x H x D)	82 x 192 x 63 mm
Warranty	5 Years



Range overview GEB..1E / GEB..9E

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Spring return function	Cable length [m]	Stock no.	Product no.
AC 24 DC 24...48	2-position/3-position	2.3 VA 1.1 W	0	No	0.9	S55499-D329	GEB141.1E
AC 24 DC 24...48	2-position/3-position	2.3 VA 1.1 W	0		0.9	S55499-D330	GEB142.1E
AC 24 DC 24...48	2-position/3-position	2.3 VA 1.1 W	2		0.9	S55499-D331	GEB146.1E
AC 24 DC 24...48	DC 0/2...10 V	2.5 VA 1.2 W	0	No	0.9	S55499-D332	GEB161.1E
AC/DC 24	Modbus RTU	2.8 VA 1.7 W Holding: 0.7 W	0	No	0.9	S55499-D663	GEB161.1E/MO

Damper actuators

Air damper actuators

Rotary damper actuators non-spring return

Range overview GEB..1E / GEB..9E

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Spring return function	Cable length [m]	Stock no.	Product no.
AC 24 DC 24...48	DC 0...35 V	2.5 VA 1.2 W	0		0.9	S55499-D333	GEB163.1E
AC 24 DC 24...48	DC 0...35 V	2.5 VA 1.2 W	2		0.9	S55499-D334	GEB164.1E
AC 24 DC 24...48	DC 0/2...10 V	2.5 VA 1.2 W	2		0.9	S55499-D335	GEB166.1E
AC 100...240	2-position/3-position	4 VA 1.6 W	0	No	0.9	S55499-D336	GEB341.1E
AC 100...240	2-position/3-position	4 VA 1.6 W	2		0.9	S55499-D337	GEB346.1E
AC 100...240	DC 0/2...10 V	3.4 VA 1.3 W	0		0.9	S55499-D338	GEB361.1E

Type GEB142.1E has a feedback potentiometer.

Accessories for rotary air damper actuators GEB..1E

Product Title	Data sheet	Stock no.	Product no.
External auxiliary switch assembly 1 switch	N4615	BPZ:ASC77.1E	ASC77.1E
External auxiliary switch assembly 2 switches	N4615	BPZ:ASC77.2E	ASC77.2E
Accessory Kit, GEB/GMA		S55859-Z101	ASK71.01
Mounting Bracket, GS		S55859-Z118	ASK71.07
Rotary/linear mounting kit for duct or frame mounting	N4697	BPZ:ASK71.11	ASK71.11
Rotary/linear mounting kit with lever	N4697	BPZ:ASK71.14	ASK71.14
Universal lever	N4697	BPZ:ASK71.9	ASK71.9
Standard Shaft adapter, GEB/GMA, complete		S55859-Z103	ASK74.12
Shaft adapter, GS, square, 15mm, complete		S55859-Z104	ASK74.13
Shaft adapter, GS, square, 12mm		S55859-Z105	ASK74.14
Shaft adapter, GEB/GMA, square, 10mm, complete		S55859-Z106	ASK74.15
Shaft adapter, GS, square, 8mm		S55859-Z107	ASK74.16
Shaft adapter, GM, square, 15mm		S55859-Z108	ASK74.17
Shaft extension	N4699	BPZ:ASK74.7	ASK74.7
Weather shield	N4697	BPZ:ASK75.3	ASK75.3
Rotary/linear mounting kit with lever and bracket	N4697	BPZ:ASK71.13	ASK71.13
Weather shield for rotary-/linear-type actuator GMA/GEB...E	N4697	BPZ:ASK75.6	ASK75.6

Damper actuators Air damper actuators Rotary damper actuators non-spring return

Rotary air damper actuators 25 Nm, without spring return

GBB..1E

- With self-centering shaft adapter for shaft dia. 8..25.6 mm, square 6...18 mm, min. shaft length 20 mm
- With position indication and adjustable mechanical limit stop
- Button for disengaging the gear train to enable manual control
- With housing made of die-cast aluminium and 0.9 m connecting cable

Data sheet	N4626
Torque	25 Nm
Air damper area	4 m ²
Positioning time	150 s
Degree of protection	IP54
Dimensions (W x H x D)	100 x 300 x 75 mm
Warranty	5 Years



Rotary actuators 25 Nm for ball valves VAF41..

Range overview GBB..1E

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Cable length [m]	Stock no.	Product no.
AC 24	3-position	7 VA 7 W	0	0.9	BPZ:GBB131.1E	GBB131.1E
AC 24	3-position	7 VA 7 W	2	0.9	BPZ:GBB135.1E	GBB135.1E
AC 24	3-position	7 VA 7 W	2	0.9	BPZ:GBB136.1E	GBB136.1E
AC 24	DC 0...10 V	8 VA 8 W	0	0.9	BPZ:GBB161.1E	GBB161.1E
AC 24	DC 0...35 V Adjustable	8 VA 8 W	0	0.9	BPZ:GBB163.1E	GBB163.1E
AC 24	DC 0...35 V Adjustable	8 VA 8 W	2	0.9	BPZ:GBB164.1E	GBB164.1E
AC 24	DC 0...10 V	8 VA 8 W	2	0.9	BPZ:GBB166.1E	GBB166.1E
AC 230	3-position	5 VA 5 W	0	0.9	BPZ:GBB331.1E	GBB331.1E
AC 230	3-position	5 VA 5 W	2	0.9	BPZ:GBB335.1E	GBB335.1E
AC 230	3-position	5 VA 5 W	2	0.9	BPZ:GBB336.1E	GBB336.1E

Types GBB135.1E and GBB335.1E have a feedback potentiometer.
Basic Documentation No.: Z4626

Damper actuators

Air damper actuators

Rotary damper actuators non-spring return

GIB..1E



Rotary air damper actuators 35 Nm, without spring return

- With self-centering shaft adapter for shaft dia. 8...25.6 mm, square 6...18 mm, min. shaft length 20 mm
- With position indication and adjustable mechanical limit stop
- Button for disengaging the gear train to enable manual override
- With housing made of die-cast aluminium and 0.9 m connecting cable

Data sheet	N4626 / A6V101037253
Torque	35 Nm
Air damper area	6 m ²
Positioning time	150 s
Degree of protection	IP54
Dimensions (W x H x D)	100 x 300 x 75 mm
Warranty	5 Years

Rotary actuators 35 Nm for ball valves VAF41..

Range overview GIB..1E

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Spring return function	Cable length [m]	Stock no.	Product no.
AC 24	3-position	7 VA 7 W	0	No	0.9	BPZ:GIB131.1E	GIB131.1E
AC 24	3-position	7 VA 7 W	2		0.9	BPZ:GIB135.1E	GIB135.1E
AC 24	3-position	7 VA 7 W	2		0.9	BPZ:GIB136.1E	GIB136.1E
AC 24	DC 0...10 V	8 VA 8 W	0	No	0.9	BPZ:GIB161.1E	GIB161.1E
AC 24	Modbus RTU	8 VA 8 W	0		0.9	S55499-D299	GIB161.1E/MO
AC 24	DC 0...35 V Adjustable	8 VA 8 W	0		0.9	BPZ:GIB163.1E	GIB163.1E
AC 24	DC 0...35 V Adjustable	8 VA 8 W	2		0.9	BPZ:GIB164.1E	GIB164.1E
AC 24	DC 0...10 V	8 VA 8 W	2		0.9	BPZ:GIB166.1E	GIB166.1E
AC 230	3-position	5 VA 5 W	0	No	0.9	BPZ:GIB331.1E	GIB331.1E
AC 230	3-position	5 VA 5 W	2		0.9	BPZ:GIB335.1E	GIB335.1E
AC 230	3-position	5 VA 5 W	2		0.9	BPZ:GIB336.1E	GIB336.1E

Types GIB135.1E and 335.1E have a feedback potentiometer.
Basic Documentation No.: Z4626

Accessories for rotary air damper actuators GBB..1E and GIB..1E

Product Title	Data sheet	Stock no.	Product no.
External auxiliary switch assembly 1 switch	N4615	BPZ:ASC77.1E	ASC77.1E
External auxiliary switch assembly 2 switches	N4615	BPZ:ASC77.2E	ASC77.2E
Standard Shaft Adapter, GM		S55859-Z117	ASK71.06
Rotary/linear mounting kit for duct mounting	N4699	BPZ:ASK71.1	ASK71.1
Turnkey for manual adjustment		S55859-Z121	ASK71.19
Turnkey for manual adjustment		S55859-Z122	ASK71.20
Rotary/linear mounting kit with lever and bracket	N4699	BPZ:ASK71.4	ASK71.4
Universal lever	N4697	BPZ:ASK71.9	ASK71.9
Bracket for power pack	N4699	BPZ:ASK73.1	ASK73.1
Shaft adapter, GM, square, 12mm		S55859-Z109	ASK74.18

Accessories for rotary air damper actuators GBB..1E and GIB..1E

Product Title	Data sheet	Stock no.	Product no.
Shaft adapter, GM, square, 10mm		S55859-Z110	ASK74.19
Shaft adapter, GM, square, 8mm		S55859-Z111	ASK74.20
Shaft extension	N4699	BPZ:ASK74.7	ASK74.7
Weather shield for rotary actuator	N4699	BPZ:ASK75.1	ASK75.1
Weather shield for rotarytype actuator GBB/GCA/GIB...1E	N4699	BPZ:ASK75.4	ASK75.4
Rotary/linear mounting kit for frame mounting	N4699	BPZ:ASK71.2	ASK71.2
Accessory Kit, GIB/GBB/GCA		S55859-Z102	ASK71.02
Rotary/linear mounting kit with lever	N4699	BPZ:ASK71.3	ASK71.3
Mounting Bracket, GM		S55859-Z114	ASK71.03
Flexible bracket for power pack	N4699	BPZ:ASK73.2	ASK73.2
Special shaft adapter	N4699	BPZ:ASK74.1	ASK74.1

Caution!

- ASK73.1 is only valid for GIB13..1E and GIB33..1E
- ASK73.2 is only valid for GIB16..1E

Damper actuators

Air damper actuators

Rotary damper actuators non-spring return for railway application

GDA..1E/RW



Air damper actuators for railway vehicles 5 Nm, without spring return

- For shaft dia. 8...16 mm, min. shaft length 30 mm, square 6...12,8 mm, min. shaft length 20 mm
- Button for disengaging the gear train to enable manual override
- For air conditioning units and air distribution systems for railway vehicles
- Connection cables railway specific 0.9 m
- Printed circuit board, coated

Data sheet	A6V10636280 / A6V10636293
Torque	5 Nm
Air damper area	0.8 m ²
Positioning time	90 s
Cable length	0.9 m
Degree of protection	IP54
Dimensions (W x H x D)	71 x 137 x 60.6 mm
Warranty	5 Years

Range overview GDA..1E/RW

Operating voltage [V]	Positioning signal	Power consumption [W]	Auxiliary switch	Stock no.	Product no.
DC 24	2-position/3-position	1	0	S55499-D212	GDA141.1E/RW
DC 24	2-position/3-position	1	0	S55499-D214	GDA142.1E/RW
DC 24	2-position/3-position	1	2	S55499-D213	GDA146.1E/RW
DC 24	DC0/2...10 V	1	0	S55499-D215	GDA161.1E/RW

Type GDA142.1E/RW has a feedback potentiometer.

GDD..1E/RW



Air damper actuators for railway vehicles 5 Nm, without spring return

- For shaft dia. 8...16 mm, min. shaft length 30 mm, square 6...12,8 mm, min. shaft length 20 mm
- Button for disengaging the gear train to enable manual override
- For air conditioning units and air distribution systems for railway vehicles
- Connection cables railway specific 0.9 m
- Printed circuit board, coated

Torque	5 Nm
Air damper area	0.8 m ²
Positioning time	30 s
Cable length	0.9 m
Degree of protection	IP54
Dimensions (W x H x D)	71 x 137 x 60.6 mm

Range overview GDD..1E/RW

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Stock no.	Product no.
DC 24	2-position/3-position	1.5 W	0	S55499-D208	GDD141.1E/RW
DC 110		1.8 VA 1.8 W	0	S55499-D718	GDD241.1E/RW
DC 110		1.8 VA 1.8 W	0	S55499-D719	GDD242.1E/RW
DC 110		1.8 VA 1.8 W	2	S55499-D720	GDD246.1E/RW
DC 110		1.8 VA 1.3 W	0	S55499-D721	GDD261.1E/RW
DC 24	2-position/3-position	1.5 W	0	S55499-D210	GDD142.1E/RW
DC 24	2-position/3-position	1.5 W	2	S55499-D209	GDD146.1E/RW
DC 24	DC0/2...10 V	1.5 W	0	S55499-D211	GDD161.1E/RW

Type GDD142.1E/RW has a feedback potentiometer.

Rotary damper actuators non-spring return for railway application

Air damper actuators for railway vehicles 8 Nm, without spring return

GLD..1E/RW

- For shaft dia. 8...16 mm, min. shaft length 30 mm, square 6...12,8 mm, min. shaft length 20 mm
- Button for disengaging the gear train to enable manual override
- For air conditioning units and air distribution systems for railway vehicles
- Connection cables railway specific 0.9 m
- Printed circuit board, coated



Data sheet	A6V10636286 / A6V10636299
Torque	8 Nm
Air damper area	1.5 m ²
Positioning time	30 s
Cable length	0.9 m
Degree of protection	IP54
Dimensions (W x H x D)	71 x 137 x 60.6 mm
Warranty	5 Years

Range overview GLD..1E/RW

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Stock no.	Product no.
DC 24	2-position/3-position	1.8 W	0	S55499-D216	GLD141.1E/RW
DC 110	2-position/3-position	1.8 VA 2.1 W	0	S55499-D722	GLD241.1E/RW
DC 110	2-position/3-position	1.8 VA 2.1 W	0	S55499-D723	GLD242.1E/RW
DC 110	2-position/3-position	1.8 VA 2.1 W	2	S55499-D724	GLD246.1E/RW
DC 110	DC 0/2...10 V	1.8 VA 2.2 W	0	S55499-D725	GLD261.1E/RW
DC 24	2-position/3-position	1.8 W	0	S55499-D218	GLD142.1E/RW
DC 24	2-position/3-position	1.8 W	2	S55499-D217	GLD146.1E/RW
DC 24	DC 0/2...10 V	1.8 W	0	S55499-D219	GLD161.1E/RW

Type GLD142.1E/RW has a feedback potentiometer.

Damper actuators

Air damper actuators

Rotary damper actuators non-spring return for railway application

GLA..1E/RW



Air damper actuators for railway vehicles 10 Nm, without spring return

- For shaft dia. 8...16 mm, min. shaft length 30 mm, square 6...12,8 mm, min. shaft length 20 mm
- Button for disengaging the gear train to enable manual override
- For air conditioning units and air distribution systems for railway vehicles
- Connection cables railway specific 0.9 m
- Printed circuit board, coated

Data sheet	A6V10636286 / A6V10636299
Torque	10 Nm
Air damper area	1.5 m ²
Positioning time	90 s
Cable length	0.9 m
Degree of protection	IP54
Dimensions (W x H x D)	71 x 137 x 60.6 mm
Warranty	5 Years

Range overview GLA..1E/RW

Operating voltage [V]	Positioning signal	Power consumption [W]	Auxiliary switch	Stock no.	Product no.
DC 24	2-position/3-position	1.3	0	S55499-D220	GLA141.1E/RW
DC 24	2-position/3-position	1.3	0	S55499-D222	GLA142.1E/RW
DC 24	2-position/3-position	1.3	2	S55499-D221	GLA146.1E/RW
DC 24	DC0/2...10 V	1.3	0	S55499-D223	GLA161.1E/RW

Type GLA142.1E/RW has a feedback potentiometer.

Fast-running damper actuators with fail safe function

Rotary air damper actuators 6 Nm, with electronic fail-safe function

GNP..1E

- With self-centering shaft adapter for shaft dia. 6.4...20.5 mm, square 6.4...13 mm, min. shaft length 20 mm
- With position indication and adjustable mechanical limit stop
- With housing made of die-cast aluminium and 0.9 m connecting cable

Data sheet	N4609
Torque	6 Nm
Air damper area	1 m ²
Positioning time	Opening with motor: 2 s Closing with Super Cap: 2 s
Cable length	0.9 m
Degree of protection	IP54
Dimensions (W x H x D)	81 x 192 x 63 mm
Warranty	5 Years



Range overview GNP..1E

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Stock no.	Product no.
AC/DC 24	DC 0(2)...10 V 0(4)...20 mA	20 VA 13 W	0	BPZ:GNP191.1E	GNP191.1E
AC/DC 24	DC 0(2)...10 V 0(4)...20 mA	20 VA 13 W	2	BPZ:GNP196.1E	GNP196.1E

Accessories for GNP..1E

Product Title	Data sheet	Stock no.	Product no.
Accessory Kit, GEB/GMA		S55859-Z101	ASK71.01
Mounting Bracket, GS		S55859-Z118	ASK71.07
Shaft adapter, GS, square, 15mm, complete		S55859-Z104	ASK74.13
Shaft adapter, GS, square, 12mm		S55859-Z105	ASK74.14
Shaft adapter, GEB/GMA, square, 10mm, complete		S55859-Z106	ASK74.15
Shaft adapter, GS, square, 8mm		S55859-Z107	ASK74.16
Shaft adapter, GM, square, 15mm		S55859-Z108	ASK74.17

Damper actuators

Air damper actuators

Fast-running damper actuators fail-in-place

GAP..1E



Rotary air damper actuators 6 Nm, without electronic fail-save function

- With self-centering shaft adapter for shaft dia. 6.4...20.5 mm, square 6.4...13 mm, min. shaft length 20 mm
- With position indication and adjustable mechanical limit stop
- Button for disengaging the gear train to enable manual control
- With housing made of die-cast aluminium and 0.9 m connecting cable

Data sheet	N4608
Torque	6 Nm
Air damper area	1 m ²
Positioning time	2 s
Cable length	0.9 m
Degree of protection	IP54
Dimensions (W x H x D)	81 x 192 x 63 mm
Warranty	5 Years

Range overview GAP..1E

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Stock no.	Product no.
AC/DC 24	DC 0(2)...10 V 0(4)...20 mA	30 VA 22 W	0	BPZ:GAP191.1E	GAP191.1E
AC/DC 24	DC 0(2)...10 V 0(4)...20 mA	20 VA 13 W	0	S55499-D639	GAP191.1E/IHT
AC/DC 24	DC 0(2)...10 V 0(4)...20 mA	30 VA 22 W	2	BPZ:GAP196.1E	GAP196.1E

Accessories for GAP..1E

Product Title	Data sheet	Stock no.	Product no.
Accessory Kit, GEB/GMA		S55859-Z101	ASK71.01
Mounting Bracket, GS		S55859-Z118	ASK71.07
Shaft adapter, GS, square, 15mm, complete		S55859-Z104	ASK74.13
Shaft adapter, GS, square, 12mm		S55859-Z105	ASK74.14
Shaft adapter, GEB/GMA, square, 10mm, complete		S55859-Z106	ASK74.15
Shaft adapter, GS, square, 8mm		S55859-Z107	ASK74.16
Shaft adapter, GM, square, 15mm		S55859-Z108	ASK74.17

Linear air damper actuators 125 N, without spring return

- Button for disengaging the gear train to enable manual override
- With base made of steel, plastic housing and 0.9 m connecting cable

Data sheet	N4664
Force	125 N
Air damper area	0.8 m ²
Nominal stroke	60 mm
Positioning time	150 s
Degree of protection	IP40
Dimensions (W x H x D)	68 x 152 x 59 mm
Warranty	5 Years

GDB..2E



Range overview GDB..2E

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Cable length [m]	Stock no.	Product no.
AC 24	3-position	2 VA 1 W	0	0.9	BPZ:GDB131.2E	GDB131.2E
AC 24	DC 0...10 V	3 VA 2 W	0	0.9	BPZ:GDB161.2E	GDB161.2E
AC 24	DC 0...35 V Adjustable	3 VA 2 W	0	0.9	BPZ:GDB163.2E	GDB163.2E
AC 230	3-position	2 VA 1 W	0	0.9	BPZ:GDB331.2E	GDB331.2E
AC 230	3-position	2 VA 1 W	2	0.9	BPZ:GDB336.2E	GDB336.2E

Basic Documentation No.: Z4664.

Damper actuators

Air damper actuators

Linear damper actuators

GLB..2E



Linear air damper actuators 250 N, without spring return

- Button for disengaging the gear train to enable manual override
- With base made of steel, plastic housing and 0.9 m connecting cable

Data sheet	N4664
Force	250 N
Air damper area	1.5 m ²
Nominal stroke	60 mm
Positioning time	150 s
Degree of protection	IP40
Dimensions (W x H x D)	68 x 152 x 59 mm
Warranty	5 Years

Range overview GLB..2E

Operating voltage [V]	Positioning signal	Power consumption	Auxiliary switch	Cable length [m]	Stock no.	Product no.
AC 24	3-position	2 VA 1 W	0	0.9	BPZ:GLB131.2E	GLB131.2E
AC 24	3-position	2 VA 1 W	2	0.9	BPZ:GLB136.2E	GLB136.2E
AC 24	DC 0...10 V	3 VA 2 W	0	0.9	BPZ:GLB161.2E	GLB161.2E
AC 24	DC 0...35 V Adjustable	3 VA 2 W	0	0.9	BPZ:GLB163.2E	GLB163.2E
AC 230	3-position	2 VA 1 W	0	0.9	BPZ:GLB331.2E	GLB331.2E
AC 230	3-position	2 VA 1 W	2	0.9	BPZ:GLB336.2E	GLB336.2E

Basis Documentation No.: Z4664.

Accessories for linear air damper actuators GDB..2E and GLB..2E

Product Title	Data sheet	Stock no.	Product no.
Clamp for linkage (5...8 mm dia.)	N4698	BPZ:ASK55.2	ASK55.2
Weather shield for rotary-/linear-type actuator GDB/GLB/GSF...E	N4698	BPZ:ASK75.5	ASK75.5

Compact room automation stations BACnet/IP DXR2.E..

Compact room automation stations, BACnet/IP, 24 V

DXR2.E10PL..

Compact room automation stations for HVAC, lighting, and shading:

- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool



Data sheet	A6V11259958
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	Max. 66 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	3
Triac outputs, number	4
Triac output, switching voltage	AC 24 V
Triac output, switching current	150 mA
Degree of protection	IP20
Dimensions (W x H x D)	201 x 137 x 82 mm

Range overview DXR2.E10PL..

Product Title	Stock no.	Product no.
Compact room automation station and actuator combination, BACnet/IP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 30 data points	S55376-C145	DXR2.E10PL-102B
Compact room automation station, BACnet/IP, 24 V, DIN housing, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 60 data points	S55376-C146	DXR2.E10PLX-102B

Accessories for DXR2.E..

Product Title	Data sheet	Stock no.	Product no.
Universal lever	N4697	BPZ:ASK71.9	ASK71.9
Centering insert D-profile fixed 12 mm dia. x 9 mm	N4698	BPZ:ASK78.12	ASK78.12
Air tube connection kit 50mm DXA.T50		S55499-D500	DXA.T50
Insert for small shaft dia.	N4698	BPZ:ASK78.3	ASK78.3
Centering insert 12.7 mm dia. (½")	N4698	BPZ:ASK78.5	ASK78.5
Centering insert 8 mm square	N4698	BPZ:ASK78.6	ASK78.6
Centering insert 10 mm square	N4698	BPZ:ASK78.7	ASK78.7
Centering insert 10 mm dia.	N4698	BPZ:ASK78.9	ASK78.9
Centering insert 12 mm dia.	N4698	BPZ:ASK78.10	ASK78.10
Centering insert 8 mm square	N4698	BPZ:ASK78.14	ASK78.14

Damper actuators

VAV controller

Compact room automation stations BACnet/MSTP DXR2.M..

DXR2.M10PL..



Compact room automation station, BACnet/MSTP, 24 V

Compact room automation stations for HVAC, lighting, and shading:

- BACnet/MSTP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- USB interface for Tool

Data sheet	A6V11259964
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	Max. 58 VA
Universal inputs, number	2
Digital inputs, number	1
Analog outputs, number	2
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Triac outputs, number	4
Triac output, switching voltage	AC 24 V
Triac output, switching current	250 mA
Degree of protection	IP20
Dimensions (W x H x D)	201 x 137 x 99 mm

Range overview DXR2.M10PL..

Product Title	Stock no.	Product no.
Compact room automation station and actuator combination, BACnet/MSTP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 30 data points	S55376-C147	DXR2.M10PL-102B
Compact room automation station, BACnet/MSTP, 24 V, DIN housing, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 60 data points	S55376-C148	DXR2.M10PLX-102B

Accessories for DXR2.M..

Product Title	Data sheet	Stock no.	Product no.
Universal lever	N4697	BPZ:ASK71.9	ASK71.9
Centering insert D-profile fixed 12 mm dia. x 9 mm	N4698	BPZ:ASK78.12	ASK78.12
Air tube connection kit 50mm DXA.T50		S55499-D500	DXA.T50
Insert for small shaft dia.	N4698	BPZ:ASK78.3	ASK78.3
Centering insert 12.7 mm dia. (½")	N4698	BPZ:ASK78.5	ASK78.5
Centering insert 8 mm square	N4698	BPZ:ASK78.6	ASK78.6
Centering insert 10 mm square	N4698	BPZ:ASK78.7	ASK78.7
Centering insert 10 mm dia.	N4698	BPZ:ASK78.9	ASK78.9
Centering insert 12 mm dia.	N4698	BPZ:ASK78.10	ASK78.10
Centering insert 8 mm square	N4698	BPZ:ASK78.14	ASK78.14

Compact room automation stations BACnet/IP DXR1.E..

Compact actuating room automation station DXR1.E09PDZ-..

DXR1.E09PDZ..



- Compact, configurable room automation station in combination with actuator for HVAC
- BACnet IP communications (BTL certified)
- 2-port Ethernet switch
- USB interface
- Operating voltage AC 24 V
- Built-in 5 Nm actuator
- Internal 0...500 Pa differential pressure sensor
- Plug-in terminal blocks

Data sheet	A6V11393931
Operating voltage	AC 24 V +/-20 %
Frequency	50/60 Hz
Power consumption	Max. 7.5 VA
Communication	BACnet IP
Max. cable length	30 m
Digital outputs, number	4
Analog outputs, number	1
Degree of protection	IP20
Dimensions (W x H x D)	143.1 x 83.6 x 137 mm
Warranty	2 Years

Range overview DXR1.E09PDZ..

Product Title	Stock no.	Product no.
Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, VAV044	S55499-D456	DXR1.E09PDZ-112
Compact actuating room automation station DXR1.E09PDZ-..	S55499-D788	DXR1.E09PDZ-112/CA
Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, FPB052	S55499-D457	DXR1.E09PDZ-113
Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, VAV044	S55499-D742	DXR1.E09PLZ-112

Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, pressure sensor, VAV011 (VAV012)

DXR1.E02PLZ-112



- Combination of compact room automation station and actuator for VAV control
- BACnet IP communications (BTL certified)
- 2-port Ethernet switch
- USB interface
- Operating voltage AC 24 V
- Built-in 10 Nm actuator
- Internal 0...500 Pa differential pressure sensor
- Plug-in terminal blocks

Data sheet	A6V11393935
Operating voltage	AC 24 V +/-20 %
Frequency	50/60 Hz
Power consumption	7 VA
Communication	BACnet IP
Max. cable length	30 m
Mounting	Directly on the damper shaft
Degree of protection	IP20
Dimensions (W x H x D)	143.1 x 83.6 x 137 mm
Warranty	2 Years

	Stock no.	Product no.
	S55499-D460	DXR1.E02PLZ-112

Damper actuators

VAV controller

Compact room automation stations BACnet/IP DXR1.E..

DXR1.E10PL..



Compact actuating room automation station DXR1.E10PL-..

- Compact, configurable room automation station in combination with actuator for HVAC
- BACnet IP communications (BTL certified)
- 2-port Ethernet switch
- USB interface
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- Operating voltage AC 24 V
- Built-in 10 Nm actuator
- Internal 0...500 Pa differential pressure sensor
- Plug-in terminal blocks

Data sheet	A6V11393933
Operating voltage	AC 24 V +/-20 %
Frequency	50/60 Hz
Power consumption	Max. 12 VA
Communication	BACnet IP
Max. cable length	30 m
Digital outputs, number	4
Analog outputs, number	1
Degree of protection	IP20
Dimensions (W x H x D)	143.1 x 83.6 x 137 mm
Warranty	2 Years

Range overview DXR1.E10PL..

Product Title	Stock no.	Product no.
Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, VAV045	S55499-D458	DXR1.E10PL-112
Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, FPB053	S55499-D459	DXR1.E10PL-113

Accessories for DXR1.E..

Product Title	Data sheet	Stock no.	Product no.
Universal lever	N4697	BPZ:ASK71.9	ASK71.9
Centering insert D-profile fixed 12 mm dia. x 9 mm	N4698	BPZ:ASK78.12	ASK78.12
Air tube connection kit 50mm DXA.T50		S55499-D500	DXA.T50
Insert for small shaft dia.	N4698	BPZ:ASK78.3	ASK78.3
Centering insert 12.7 mm dia. (½")	N4698	BPZ:ASK78.5	ASK78.5
Centering insert 8 mm square	N4698	BPZ:ASK78.6	ASK78.6
Centering insert 10 mm square	N4698	BPZ:ASK78.7	ASK78.7
Centering insert 10 mm dia.	N4698	BPZ:ASK78.9	ASK78.9
Centering insert 12 mm dia.	N4698	BPZ:ASK78.10	ASK78.10
Centering insert 8 mm square	N4698	BPZ:ASK78.14	ASK78.14

Compact room automation stations BACnet/MSTP DXR1.M..

Compact actuating room automation station DXR1.M09PDZ-..

DXR1.M09PDZ..

- Compact, configurable room automation station in combination with actuator for HVAC
- BACnet MS/TP communications (BTL certified)
- USB interface
- Operating voltage AC 24 V
- Built-in 5 Nm actuator
- Internal 0...500 Pa differential pressure sensor
- Plug-in terminal blocks



Data sheet	A6V11393929
Operating voltage	AC 24 V +/-20 %
Frequency	50/60 Hz
Power consumption	Max. 5.5 VA
Communication	BACnet MS/TP
Max. cable length	30 m
Universal inputs, number	2
Digital outputs, number	4
Analog outputs, number	1
Degree of protection	IP20
Dimensions (W x H x D)	143.1 x 83.6 x 137 mm
Warranty	2 Years

Range overview DXR1.M09PDZ..

Product Title	Stock no.	Product no.
Compact, configurable room automation station and actuator combination, BACnet/MSTP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, VAV044	S55499-D462	DXR1.M09PDZ-112
Compact, configurable room automation station and actuator combination, BACnet/MSTP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, FPB052	S55499-D463	DXR1.M09PDZ-113
Compact, configurable room automation station and actuator combination, BACnet/MSTP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, VAV044	S55499-D741	DXR1.M09PLZ-112

Accessories for DXR1.M..

Product Title	Data sheet	Stock no.	Product no.
Universal lever	N4697	BPZ:ASK71.9	ASK71.9
Centering insert D-profile fixed 12 mm dia. x 9 mm	N4698	BPZ:ASK78.12	ASK78.12
Air tube connection kit 50mm DXA.T50		S55499-D500	DXA.T50
Insert for small shaft dia.	N4698	BPZ:ASK78.3	ASK78.3
Centering insert 12.7 mm dia. (½")	N4698	BPZ:ASK78.5	ASK78.5
Centering insert 8 mm square	N4698	BPZ:ASK78.6	ASK78.6
Centering insert 10 mm square	N4698	BPZ:ASK78.7	ASK78.7
Centering insert 10 mm dia.	N4698	BPZ:ASK78.9	ASK78.9
Centering insert 12 mm dia.	N4698	BPZ:ASK78.10	ASK78.10
Centering insert 8 mm square	N4698	BPZ:ASK78.14	ASK78.14

Damper actuators

VAV controller

VAV compact controllers with KNX PL-Link communication

G..B181.1E/KN



VAV compact controller KNX

- Compact controller with KNX communication for plants with variable or constant air volume flow
- Integrated, highly precise differential pressure sensor, damper actuator and digitally configurable air volume controller
- Nominal torque 5 or 10 Nm
- Air damper rotation angle mechanically adjustable between 0 and 90°
- Configurable as single device per room or for cascade control with pressure ratio 1:1, positive pressure, or negative pressure
- Prewired with a 0.9 m cable and a 0.9 m cable

Data sheet	N3547
Positioning time	150 s
Communication	KNX S-Mode KNX LTE-Mode KNX PL-Link
Cable length	0.9 m
Degree of protection	IP54
Dimensions (W x H x D)	71 x 158 x 61 mm
Warranty	5 Years

Range overview G..B181.1E/KN

Torque [Nm]	Operating voltage [V]	Air damper area [m²]	Power consumption	Stock no.	Product no.
5	AC 24	0.8	3 VA 2.5 W	S55499-D134	GDB181.1E/KN
5	AC 24	0.8	3 VA 2.5 W	S55499-D505	GDB181.1EMKN
10	AC 24	1.5	3 VA 2.5 W	S55499-D135	GLB181.1E/KN

GDB181.EMKN packaging unit 18 pieces.
Basic Documentation No.: P3547

Accessories for G..B181.1E/KN

Product Title	Data sheet	Stock no.	Product no.
Connection cable VAV to control panel with wire ends		BPZ:7442401250	7442401250
Connection cable VAV to AST20, 7 pins		BPZ:7442403010	7442403010
Rotary/linear mounting kit	N4698	BPZ:ASK71.5	ASK71.5
Rotary/linear mounting kit with bracket	N4698	BPZ:ASK71.6	ASK71.6
Universal lever	N4697	BPZ:ASK71.9	ASK71.9
Centering insert D-profile fixed 12 mm dia. x 9 mm	N4698	BPZ:ASK78.12	ASK78.12
Handheld tool for VAV compact controllers	A6V10631836	S55499-D165	AST20
Interface Converter USB/PPS2	A6V11236956	S55499-D373	AST22
Insert for small shaft dia.	N4698	BPZ:ASK78.3	ASK78.3
Weather shield for rotary-/linear-type actuator GDB/GLB/GSF...E	N4698	BPZ:ASK75.5	ASK75.5
Centering insert 12.7 mm dia. (½")	N4698	BPZ:ASK78.5	ASK78.5
Centering insert 8 mm square	N4698	BPZ:ASK78.6	ASK78.6
Centering insert 10 mm square	N4698	BPZ:ASK78.7	ASK78.7
Centering insert 10 mm dia.	N4698	BPZ:ASK78.9	ASK78.9
Centering insert 12 mm dia.	N4698	BPZ:ASK78.10	ASK78.10
Centering insert 8 mm square	N4698	BPZ:ASK78.14	ASK78.14

VAV compact controllers with BACnet MS/TP communication

VAV compact controller BACnet

G..B181.1E/BA

- Networked compact controller with BACnet MS/TP (BTL-listed) communication for plants with variable or constant air volume flow
- Integrated, highly precise differential pressure sensor, damper actuator and digitally configurable air volume controller
- Nominal torque 5 or 10 Nm
- Air damper rotation angle mechanically adjustable between 0 and 90°
- Configurable as single device per room or for cascade control with pressure ratio 1:1, positive pressure, or negative pressure
- Prewired with a 0.9 m connecting cable and a 0.9 m bus cable



Data sheet	A6V10631834
Positioning time	150 s
Communication	BACnet MS/TP
Cable length	0.9 m
Degree of protection	IP54
Dimensions (W x H x D)	71 x 158 x 61 mm
Warranty	5 Years

Range overview G..B181.1E/BA

Torque [Nm]	Operating voltage [V]	Air damper area [m²]	Power consumption	Stock no.	Product no.
10	AC 24	1.5	3 VA 2.5 W	S55499-D169	GLB181.1E/BA

GDB181.EMBA packaging unit 18 pieces

Accessories for G..B181.1E/BA

Product Title	Data sheet	Stock no.	Product no.
Connection cable VAV to control panel with wire ends		BPZ:7442401250	7442401250
Connection cable VAV to AST20, 7 pins		BPZ:7442403010	7442403010
Rotary/linear mounting kit	N4698	BPZ:ASK71.5	ASK71.5
Rotary/linear mounting kit with bracket	N4698	BPZ:ASK71.6	ASK71.6
Universal lever	N4697	BPZ:ASK71.9	ASK71.9
Centering insert D-profile fixed 12 mm dia. x 9 mm	N4698	BPZ:ASK78.12	ASK78.12
Handheld tool for VAV compact controllers	A6V10631836	S55499-D165	AST20
Interface Converter USB/PPS2	A6V11236956	S55499-D373	AST22
Insert for small shaft dia.	N4698	BPZ:ASK78.3	ASK78.3
Weather shield for rotary-/linear-type actuator GDB/GLB/GSF...E	N4698	BPZ:ASK75.5	ASK75.5
Centering insert 12.7 mm dia. (½")	N4698	BPZ:ASK78.5	ASK78.5
Centering insert 8 mm square	N4698	BPZ:ASK78.6	ASK78.6
Centering insert 10 mm square	N4698	BPZ:ASK78.7	ASK78.7
Centering insert 10 mm dia.	N4698	BPZ:ASK78.9	ASK78.9
Centering insert 12 mm dia.	N4698	BPZ:ASK78.10	ASK78.10
Centering insert 8 mm square	N4698	BPZ:ASK78.14	ASK78.14

Damper actuators

VAV controller

VAV compact controllers with Modbus RTU communication

G..B181.1E/MO



VAV compact controller Modbus

- Networked compact controller with Modbus RTU communication for plants with variable or constant air volume flow
- Integrated, highly precise differential pressure sensor, damper actuator and digitally configurable air volume controller
- Nominal torque 5 or 10 Nm
- Air damper rotation angle mechanically adjustable between 0 and 90°
- Configurable as single device per room or for cascade control with pressure ratio 1:1, positive pressure, or negative pressure
- Prewired with a 0.9 m connecting cable and a 0.9 m bus cable

Data sheet	A6V10631832
Positioning time	150 s
Communication	Modbus RTU
Cable length	0.9 m
Degree of protection	IP54
Dimensions (W x H x D)	71 x 158 x 61 mm
Warranty	5 Years

Range overview G..B181.1E/MO

Torque [Nm]	Operating voltage [V]	Air damper area [m²]	Power consumption	Stock no.	Product no.
5	AC 24	0.8	3 VA 2.5 W	S55499-D166	GDB181.1E/MO
10	AC 24	1.5	3 VA 2.5 W	S55499-D167	GLB181.1E/MO

Accessories for G..B181.1E/MO

Product Title	Data sheet	Stock no.	Product no.
Connection cable VAV to control panel with wire ends		BPZ:7442401250	7442401250
Connection cable VAV to AST20, 7 pins		BPZ:7442403010	7442403010
Rotary/linear mounting kit	N4698	BPZ:ASK71.5	ASK71.5
Rotary/linear mounting kit with bracket	N4698	BPZ:ASK71.6	ASK71.6
Universal lever	N4697	BPZ:ASK71.9	ASK71.9
Centering insert D-profile fixed 12 mm dia. x 9 mm	N4698	BPZ:ASK78.12	ASK78.12
Handheld tool for VAV compact controllers	A6V10631836	S55499-D165	AST20
Interface Converter USB/PPS2	A6V11236956	S55499-D373	AST22
Insert for small shaft dia.	N4698	BPZ:ASK78.3	ASK78.3
Weather shield for rotary-/linear-type actuator GDB/GLB/GSF...E	N4698	BPZ:ASK75.5	ASK75.5
Centering insert 12.7 mm dia. (½")	N4698	BPZ:ASK78.5	ASK78.5
Centering insert 8 mm square	N4698	BPZ:ASK78.6	ASK78.6
Centering insert 10 mm square	N4698	BPZ:ASK78.7	ASK78.7
Centering insert 10 mm dia.	N4698	BPZ:ASK78.9	ASK78.9
Centering insert 12 mm dia.	N4698	BPZ:ASK78.10	ASK78.10
Centering insert 8 mm square	N4698	BPZ:ASK78.14	ASK78.14

VAV compact controller

G..B181.1E/3

- Compact controller for plants with variable or constant air volume flow
- Integrated, highly precise differential pressure sensor, damper actuator and digitally configurable air volume controller
- Nominal torque 5 or 10 Nm
- Air damper rotation angle mechanically adjustable between 0 and 90°
- Forced close-off function in DC 2...10 V operation
- Optionally configurable as VAV compact controller or as damper actuator/differential pressure sensor unit
- Prewired with a 0.9 m connecting cable

Data sheet	N3544
Positioning time	150 s
Positioning signal	DC 0...10 V DC 2...10 V 3-position
Degree of protection	IP54
Dimensions (W x H x D)	71 x 158 x 61 mm
Warranty	5 Years



Range overview G..B181.1E/3

Torque [Nm]	Operating voltage [V]	Air damper area [m²]	Power consumption	Auxiliary switch	Cable length [m]	Stock no.	Product no.
5	AC 24	0.8	3 VA 2.5 W	0	0.9	BPZ:GDB181.1E/3	GDB181.1E/3
10	AC 24	1.5	3 VA 2.5 W	0	0.9	BPZ:GLB181.1E/3	GLB181.1E/3

Basic Documentation No.: P3544.

Accessories for G..B181.1E/3

Product Title	Data sheet	Stock no.	Product no.
Connection cable VAV to control panel with wire ends		BPZ:7442401250	7442401250
Connection cable VAV to AST20, 6 pins		BPZ:7442401260	7442401260
Connection cable VAV to AST20, 7 pins		BPZ:7442403010	7442403010
Rotary/linear mounting kit	N4698	BPZ:ASK71.5	ASK71.5
Rotary/linear mounting kit with bracket	N4698	BPZ:ASK71.6	ASK71.6
Universal lever	N4697	BPZ:ASK71.9	ASK71.9
Centering insert D-profile fixed 12 mm dia. x 9 mm	N4698	BPZ:ASK78.12	ASK78.12
Handheld tool for VAV compact controllers	A6V10631836	S55499-D165	AST20
Interface Converter USB/PPS2	A6V11236956	S55499-D373	AST22
Insert for small shaft dia.	N4698	BPZ:ASK78.3	ASK78.3
Weather shield for rotary-/linear-type actuator GDB/GLB/GSF...E	N4698	BPZ:ASK75.5	ASK75.5
Centering insert 12.7 mm dia. (½")	N4698	BPZ:ASK78.5	ASK78.5
Centering insert 8 mm square	N4698	BPZ:ASK78.6	ASK78.6
Centering insert 10 mm square	N4698	BPZ:ASK78.7	ASK78.7
Centering insert 10 mm dia.	N4698	BPZ:ASK78.9	ASK78.9
Centering insert 12 mm dia.	N4698	BPZ:ASK78.10	ASK78.10
Centering insert 8 mm square	N4698	BPZ:ASK78.14	ASK78.14

Damper actuators

VAV controller

VAV modular controllers

ASV181.1E/3



VAV modular controller

- Modular controller for plants with variable or constant air volume flow
- Integrated, highly precise differential pressure sensor and digitally configurable air volume controller
- For connection to an OpenAir™ family 3-position air damper actuator with high torque or safety functions
- Prewired with a 0.9 m cable and a 0.3 m connecting cable

Data sheet	N3545
Angular rotation	90°
Power consumption	1 VA
	0.5 W
Positioning time	150 s
Positioning signal	DC 0...10 V
	DC 2...10 V
	3-position
Degree of protection	IP40
Medium temperature	0...50 °C
Ambient humidity, operation	95 % r.h.
Dimensions (W x H x D)	68 x 144 x 45 mm
Operating voltage	AC 24 V
Warranty	5 Years

Stock no.	Product no.
BPZ:ASV181.1E/3	ASV181.1E/3

Accessories for ASV181.1E/3

Product Title	Data sheet	Stock no.	Product no.
Connection cable VAV to control panel with wire ends		BPZ:7442401250	7442401250
Connection cable VAV to AST20, 7 pins		BPZ:7442403010	7442403010
Handheld tool for VAV compact controllers	A6V10631836	S55499-D165	AST20
Interface Converter USB/PPS2	A6V11236956	S55499-D373	AST22

Damper actuators

Actuators for fire and smoke protection dampers

Fire damper actuators

Actuators for fire protection dampers

GRA..26.1E



- Rotary type
- 2-position
- Spring return to failsafe position
- Temperature monitoring unit (for 72 °C)
- Fixed auxiliary switches for switching points 5° and 80°
- Type/A have adjustable end position switches
- Rigid connection between actuator and damper square shafts (10x10, 12x12)
- Manual setting
- Position indicator
- Robust, lightweight all metal housing made from die-cast aluminium and 0.9 m connecting cable
- Degree of protection: Temperature monitoring unit IP54 / Actuator IP54

Data sheet	A6V10888424
Torque	4 Nm
Air damper area	0.6 m ²
Positioning time	Open with motor: 90 s Close with spring return: 15 s
Connection cable	Supply: 2 x 0.75 mm ² / auxiliary switch: 6 x 0.75 mm ²
Medium temperature	≤72 °C
Dimensions (W x H x D)	81 x 178 x 63 mm
Warranty	5 Years

Range overview GRA..26.1E

Operating voltage [V]	Positioning signal	Power consumption	Cable length [m]	Shaft linkage [mm]	Stock no.	Product no.
AC/DC 24	2-position	5 VA 3.5 W	0.9	10 x 10	S55499-D294	GRA126.1E/10
AC/DC 24	2-position	5 VA 3.5 W	0.9	12 x 12	S55499-D507	GRA126.1E/12A
AC/DC 24	2-position	5 VA 3.5 W	0.9	12 x 12	S55499-D566	GRA126.1E/C12
AC 230	2-position	7 VA 4.5 W	0.9	12 x 12	S55499-D674	GRA326.1E/12A
AC 230	2-position	7 VA 4.5 W	0.9	10 x 10	S55499-D295	GRA326.1E/10
AC/DC 24	2-position	5 VA 3.5 W	0.9	12 x 12	S55499-D296	GRA126.1E/12
AC 230	2-position	7 VA 4.5 W	0.9	12 x 12	S55499-D297	GRA326.1E/12
AC/DC 24	2-position	5 VA 3.5 W	0.9	10 x 10	S55499-D290	GRA126.1E/T10
AC 230	2-position	7 VA 4.5 W	0.9	10 x 10	S55499-D291	GRA326.1E/T10
AC/DC 24	2-position	5 VA 3.5 W	0.9	12 x 12	S55499-D292	GRA126.1E/T12
AC 230	2-position	7 VA 4.5 W	0.9	12 x 12	S55499-D293	GRA326.1E/T12

The 2 final figures of the classification correspond to the square of axis in mm.

Types GRA../T10 and GRA../T12 are equipped with a temperature monitoring unit.

Types ../C.. have cables with AMP plugs.

Types ../A have adjustable end position switches.

Damper actuators

Actuators for fire and smoke protection dampers

Fire damper actuators

Accessories for GRA...26.1E

Product Title	Data sheet	Stock no.	Product no.
Accessory Kit, GEB/GMA		S55859-Z101	ASK71.01
Mounting Bracket, GS		S55859-Z118	ASK71.07
Turnkey for manual adjustment		S55859-Z122	ASK71.20
Shaft adapter, GS, square, 15mm, complete		S55859-Z104	ASK74.13
Shaft adapter, GS, square, 12mm		S55859-Z105	ASK74.14
Shaft adapter, GEB/GMA, square, 10mm, complete		S55859-Z106	ASK74.15
Shaft adapter, GS, square, 8mm		S55859-Z107	ASK74.16
Duct tip for temperature monitor unit (72 °C)	N4697	BPZ:ASK79.4	ASK79.4
Duct tip for temperature monitor unit (95 °C)	N4697	BPZ:ASK79.5	ASK79.5

Damper actuators

Actuators for fire and smoke protection dampers

Fire damper actuators

Actuators for fire protection dampers

GNA..26.1E



- Rotary type
- 2-position (Type GNA166.1E.. has a modulating DC 0/2...10V positioning signal)
- Spring return to failsafe position
- Temperature monitoring unit (for 72 °C) (Type GNA..26.1E/H.. are for 95°C)
- Fixed auxiliary switches for switching points 5° and 80° (Type GNA..26.1E/..A have adjustable end position switches)
- Rigid connection between actuator and damper square shafts (10 x 10, 12 x 12)
- Manual setting
- Position indicator
- Robust, lightweight all metal housing made from die-cast aluminium and 0.9 m connecting cable
- Degree of protection: Temperature monitoring unit IP54 / Actuator IP54

Data sheet	N4620
Torque	9 Nm
Air damper area	1 m ²
Positioning time	Open with motor: 90 s Close with spring return: 15 s
Connection cable	Supply: 2 x 0.75 mm ² / auxiliary switch: 6 x 0.75 mm ²
Degree of protection	IP54
Dimensions (W x H x D)	81 x 178 x 63 mm
Warranty	5 Years

Range overview GNA..26.1E with or without temperature monitoring unit

Operating voltage [V]	Positioning signal	Power consumption	Shaft linkage [mm]	Stock no.	Product no.
AC/DC 24	2-position	5 VA 3.5 W	10 x 10	BPZ:GNA126.1E/10	GNA126.1E/10
AC 24 DC 24...48	DC 0..10 V	5 VA 3.5 W	12 x 12	S55499-D496	GNA166.1E/T12
AC 230	2-position	7 VA 4.5 W	10 x 10	BPZ:GNA326.1E/10	GNA326.1E/10
AC/DC 24	2-position	5 VA 3.5 W	10 x 10	BPZ:GNA126.1E/C10	GNA126.1E/C10
AC 24 DC 24	2-position	5 VA 3.5 W	12 x 12	BPZ:GNA126.1E/C12	GNA126.1E/C12
AC/DC 24	2-position	7 VA 4.5 W	12 x 12	S55499-D447	GNA126.1E/12A
AC 24 DC 24	2-position	7 VA 4.5 W	12 x 12	S55499-D182	GNA126.1E/H12
AC 230	2-position	7 VA 4.5 W	12 x 12	S55499-D448	GNA326.1E/12A
AC/DC 24	2-position	5 VA 3.5 W	12 x 12	BPZ:GNA126.1E/12	GNA126.1E/12
AC 230	2-position	7 VA 4.5 W	12 x 12	BPZ:GNA326.1E/12	GNA326.1E/12
AC/DC 24	2-position	5 VA 3.5 W	10 x 10	BPZ:GNA126.1E/T10	GNA126.1E/T10
AC 230	2-position	7 VA 4.5 W	10 x 10	BPZ:GNA326.1E/T10	GNA326.1E/T10
AC/DC 24	2-position	7 VA 4.5 W	12 x 12	BPZ:GNA126.1E/T12	GNA126.1E/T12
AC 230	2-position	7 VA 4.5 W	12 x 12	BPZ:GNA326.1E/T12	GNA326.1E/T12

Damper actuators

Actuators for fire and smoke protection dampers

Fire damper actuators

The 2 final figures of the classification correspond to the square of axis in mm.
 Types GNA../T10 and GNA../T12 are equipped with a temperature monitoring unit.
 Types ../C.. have cables with AMP plugs.
 Types ../A have adjustable end position switches.
 Type../H.. has a 95°C temperature monitoring unit.

Accessories for GNA..26.1E

Product Title	Data sheet	Stock no.	Product no.
Accessory Kit, GEB/GMA		S55859-Z101	ASK71.01
Mounting Bracket, GS		S55859-Z118	ASK71.07
Turnkey for manual adjustment		S55859-Z122	ASK71.20
Shaft adapter, GS, square, 15mm, complete		S55859-Z104	ASK74.13
Shaft adapter, GS, square, 12mm		S55859-Z105	ASK74.14
Shaft adapter, GEB/GMA, square, 10mm, complete		S55859-Z106	ASK74.15
Shaft adapter, GS, square, 8mm		S55859-Z107	ASK74.16
Duct tip for temperature monitor unit (72 °C)	N4697	BPZ:ASK79.4	ASK79.4
Duct tip for temperature monitor unit (95 °C)	N4697	BPZ:ASK79.5	ASK79.5

Damper actuators

Actuators for fire and smoke protection dampers

Fire damper actuators

Actuators for fire protection dampers

GGA..26.1E

- Rotary type
- 2-position
- Spring return to failsafe position
- Temperature monitoring unit (for 72 °C)
- Fixed auxiliary switches for switching points 5° and 80°
- Rigid connection between actuator and damper square shafts (10 x 10, 12 x 12)
- Manual setting
- Position indicator
- Robust, lightweight all metal housing made from die-cast aluminium and 0.9 m connecting cable
- Degree of protection: Temperature monitoring unit IP54 / Actuator IP54



Data sheet	N4617
Torque	18 Nm
Air damper area	2.5 m²
Positioning time	Open with motor: 90 s Close with spring return 15 s
Connection cable	Supply: 2 x 0.75 mm² / auxiliary switch: 6 x 0.75 mm²
Degree of protection	IP54
Medium temperature	≤72 °C
Dimensions (W x H x D)	100 x 264 x 71 mm
Warranty	5 Years

Range overview GGA..26.1E with or without temperature monitoring unit

Operating voltage [V]	Positioning signal	Power consumption	Shaft linkage [mm]	Stock no.	Product no.
AC/DC 24	2-position	7 VA 5 W	10 x 10	BPZ:GGA126.1E/10	GGA126.1E/10
AC/DC 24	2-position	7 VA 5 W	12 x 12	BPZ:GGA126.1E/12	GGA126.1E/12
AC/DC 24	2-position	7 VA 5 W	10 x 10	BPZ:GGA126.1E/C10	GGA126.1E/C10
AC/DC 24	2-position	7 VA 5 W	12 x 12	BPZ:GGA126.1E/C12	GGA126.1E/C12
AC 230	2-position	8 VA 6 W	10 x 10	BPZ:GGA326.1E/10	GGA326.1E/10
AC 230	2-position	8 VA 6 W	12 x 12	BPZ:GGA326.1E/12	GGA326.1E/12
AC/DC 24	2-position	7 VA 5 W	10 x 10	BPZ:GGA126.1E/T10	GGA126.1E/T10
AC 230	2-position	8 VA 6 W	10 x 10	BPZ:GGA326.1E/T10	GGA326.1E/T10
AC/DC 24	2-position	7 VA 5 W	12 x 12	BPZ:GGA126.1E/T12	GGA126.1E/T12
AC 230	2-position	8 VA 6 W	12 x 12	BPZ:GGA326.1E/T12	GGA326.1E/T12

The 2 final figures of the classification correspond to the square of axis in mm.
Types GGA../T10 and GGA../T12 are equipped with a temperature monitoring unit.
Types ../C.. have cables with AMP plugs.

Accessories for GGA..26.1E

Product Title	Data sheet	Stock no.	Product no.
Standard Shaft Adapter, GM		S55859-Z117	ASK71.06
Turnkey for manual adjustment		S55859-Z121	ASK71.19
Shaft adapter, GM, square, 15mm		S55859-Z108	ASK74.17
Shaft adapter, GM, square, 12mm		S55859-Z109	ASK74.18
Shaft adapter, GM, square, 10mm		S55859-Z110	ASK74.19

Damper actuators

Actuators for fire and smoke protection dampers

Fire damper actuators

Accessories for GGA..26.1E

Product Title	Data sheet	Stock no.	Product no.
Shaft adapter, GM, square, 8mm		S55859-Z111	ASK74.20
Duct tip for temperature monitor unit (72 °C)	N4697	BPZ:ASK79.4	ASK79.4
Duct tip for temperature monitor unit (95 °C)	N4697	BPZ:ASK79.5	ASK79.5
Accessory Kit, GIB/GBB/GCA		S55859-Z102	ASK71.02
Mounting Bracket, GM		S55859-Z114	ASK71.03

**Published by
Siemens Switzerland Ltd**

Smart Infrastructure
Global Headquarters
Theilerstrasse 1a
6300 Zug
Switzerland
Tel +41 58 724 24 24

**For the U.S. published by
Siemens Industry Inc.**

800 North Point Parkway
Suite 450
Alpharetta, GA 30005
United States

Smart Infrastructure intelligently connects energy systems, buildings and industries, enhancing the way we live and work to significantly improve efficiency and sustainability.

We work together with customers and partners to create an ecosystem that both intuitively responds to the needs of people and helps customers achieve their business goals.

It helps our customers to thrive, communities to progress and supports sustainable development to protect our planet for the next generation.

Creating environments that care.
[siemens.com/smart-infrastructure](https://www.siemens.com/smart-infrastructure)

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

© Siemens 2021

Solution
Partner

Building
Technologies

SIEMENS

Find a matching partner:
[siemens.com/bt/partner-finder](https://www.siemens.com/bt/partner-finder)