The SRP981 Positioner is for operation of pneumatic valve actuators with pneumatic control signals. It is used to reduce the adverse effects of valve friction, for higher thrust and shorter positioning time.

**FEATURES**

- Independent adjustment of stroke range and zero
- Adjustable amplification and damping
- Split range up to 4-fold possible
- Supply pressure up to 6 bar (90 psig)
- Low vibration effect in all directions
- Mounting according to IEC 534, part 6 (NAMUR)
- Rotation adapter for angles up to 120 °
- Ambient temperature –40 ... 80 °C (–40 ... 176 °F)
- Travel 8 to 100 mm (0.3 to 4 in)
- Angular range 30 ° to 120 °
- Modular system of additional equipment
  - Electrical limit switches
  - Electrical position transmitter
  - Booster
  - Connection manifold
- Protection class IP54 (IP 65 on request)
- Certificate No. 90/20226(E2) Lloyd’s Register of Shipping for use on vessels
- Explosion protection
  - pn. basic device: ATEX II 2 G c IIC T6 constructive design
  - el. additional built-in equipment: ATEX II 2 G EEEx ib/ia IIIB/IIC T4/T6
TECHNICAL DATA

Input
Signal range ............ 0.2 ... 1 bar (3 ... 15 psig)
or split range
down to ∆w 0.2 bar (3 psi)
Stroke range ............ 8 ... 100 mm (0.3 ... 4 in)
Angular range
linear .................. 30° ... 120°
equal percentage ........ 90°; from 70° linear

Output
Output to actuator ........ 0 ... 100% supply air pressure

Supply
Supply air pressure ....... 1.4 ... 6 bar (20 ... 90 psig)
Supply air ................ free of oil, dust, water
according to IEC 654-2

Ambient conditions
Ambient temperature .... –40 ... 80 °C (–40 ... 176 °F)
Relative humidity ........ up to 100%
Operating conditions
as per IEC 654-1 ........ The device can be operated
at a class D2 location
Transport and storage
temperature .............. –50 ... 80 °C (–58 ... 176 °F)
Protection class .......... IP 54 (IP 65 on request)

Response characteristic1)
Amplification ............ adjustable
Sensitivity ............... < 0.1 % F.S.
Non-linearity (terminal
based adjustment) ........ < 1.0 % F.S.
Hysteresis ............... < 0.3 % F.S.
Supply air dependency .... < 0.2 % / 0.1 bar (1.5 psi)
Temperature effect ........ < 0.3 % / 10 K

Air consumption
supply air pressure air consumption
single acting
1.4 bar (20 psig) .......... 200 l/h (7.1 scfh)
3.0 bar (45 psig) .......... 400 l/h (12.4 scfh)
6.0 bar (90 psig) .......... 600 l/h (21.2 scfh)
double acting
1.4 bar (20 psig) .......... 350 l/h (10.6 scfh)
3.0 bar (45 psig) .......... 550 l/h (17.7 scfh)
6.0 bar (90 psig) .......... 750 l/h (21.3 scfh)

Air output
Load effect 2) ............ –3 % for delivery flow
2 350 l/h (83 scfh)
+3 % for exhausted flow
1 900 l/h (67 scfh)

Capacity at max. deviation

<table>
<thead>
<tr>
<th>Supply air pressure bar (psig)</th>
<th>1.4 (20)</th>
<th>2 (30)</th>
<th>4 (60)</th>
<th>6 (90)</th>
</tr>
</thead>
<tbody>
<tr>
<td>without booster</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ln/h (scfh)</td>
<td>2 700 (95)</td>
<td>3 500 (124)</td>
<td>5 500 (194)</td>
<td>7 500 (265)</td>
</tr>
<tr>
<td>with booster code VKXG-FN-GN</td>
<td>18 000 (636)</td>
<td>24 000 (847)</td>
<td>40 000 (1 412)</td>
<td>55 000 (1 942)</td>
</tr>
<tr>
<td>ln/h (scfh)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>with booster code VKXG-HN</td>
<td>36 000 (1 271)</td>
<td>48 000 (1 695)</td>
<td>80 000 (2 825)</td>
<td>110 000 (3 884)</td>
</tr>
</tbody>
</table>

Data measured according to VDI/VDE 2177
1) Data based on following parameters:
stroke 30 mm (1.28 in), range spring FES 628/1, feedback lever
effective length 117.5 mm (4.63 in), max. amplification,
supply air pressure 3 bar (45 psig)
2) measured at air supply 1.4 bar (20 psig) and 50 % of signal range
Materials

Base plate .................. Aluminium (Alloy No. 230) finished with DD-varnish gray blue
Cover .................. impact resistant polyester gray blue
All moving parts of feedback system ........... 1.4305 / 1.4571
Mounting bracket ........... 1.4301

Weight

single acting without gauges ........... approx. 0.7 kg (1.5 lbs)
with gauges .................. approx. 0.8 kg (1.8 lbs)
double acting .................. approx. 0.9 kg (2.0 lbs)
attachment kit for diaphragm actuators . . . approx. 0.3 kg (0.6 lbs)
for rotary actuators ........... approx. 0.5 kg (1.1 lbs)

Connection

Pneumatic .................. Female threads G 1/8 acc. to ISO 228

Mounting

Type of mounting ........... for attaching to diaphragm actuators acc. IEC 534-6 (NAMUR)
................................. for attaching to rotary actuators
Mounting orientation ........... any

Gauges

Indicating range
Input .................. 0 ... 1.6 bar (0 ... 23 psig)
Output .................. 0 ... 10 bar (0 ... 150 psig)
Error limit .................. class 1.6

ACCESSORIES

Connection Manifold With Gauges Code J, M
Indicating range ........... 0 ... 10 bar (0 ... 150 psig)
Error limit ........... class 1.6
Pneumatic connections .... Female threads Q 1/4-18 NPT acc. to DIN 45 141

Connection Manifold With Gauges Code K, L, N
Indicating range
Supply, output ........... 0 ... 10 bar (0 ... 150 psig)
Input .................. 0 ... 1.6 bar (0 ... 23 psig)
Error limit ........... class 1.6
Pneumatic connections .... Female threads Q 1/4-18 NPT acc. to DIN 45 141
ADDITIONAL EQUIPMENT
(built into basic device)

Inductive Limit Switch  Code T, U
Two-wire system

Input ........................ Stroke / angle from actuator via positioner feedback lever
Output ........................ 2 inductive proximity sensors acc. to DIN 19234 or NAMUR
                           for connection to a switching amplifier with an intrinsically
                           safe control circuit 1)2)3)

Current consumption
Vane clear .................. > 3 mA
Vane interposed ........... < 1 mA
for control circuit with the following electrical values
Supply voltage ............ DC 8 V, R approx. 1 kOhm
Residual ripple ............. < 5%
Permissible line resistance < 100 Ohm
Response characteristic 6)
Gain .................. Continuously adjustable
                     from 1:1 to approx. 7:1
Switching differential ... < 1%
Switching point repeatability < 0.2%

Explosion protection 7) 8)
Type of protection ......... II 2 G Ex ia IIB/IEC T4/T6
Certificate of conformity .... PTB 02 ATEX 2153
For operation in certified intrinsically safe circuits with the following maximum values:
U max ........................ 16 V
I max ........................ 25 mA
P max ........................ 64 mW
Internal inductance ....... 100 µH
Internal capacitance ...... 30 nF
Ambient temperature
Temperature class T6 ...... –40... 65 °C (–4 ... 149 °F)
                     T1 to T5 ...... –40... 80 °C (–4 ... 176 °F)
Parts set for later installation
Code T .................. EW 419 510 334
Code U .................. EW 419 510 352

Inductive Limit Switch  Code R
Three-wire system

Input ........................ Stroke / angle from actuator via positioner feedback lever
Output ........................ 2 inductive proximity sensors, three-wire system,
                           LED-indication, contact, pnp 2) 4)

Supply voltage U s .......... DC 10 ... 30 V
Residual ripple ............. ± 10 %, Us = 30 V
Switching frequency ...... 2 kHz
Constant current ........... 100 mA
Response characteristic 6)
Gain .................. Continuously adjustable
                     from 1:1 to approx. 7:1
Switching differential ... < 1%
Switching point
repeatability ............... < 0.2%
Parts set for later installation
Code R .................. EW 419 510 291

Limit Switch Assembly with Micro switches  Code V
Input ........................ Stroke / angle from actuator via positioner feedback lever
Output ........................ 2 micro-switches 2) 5)

Connected load
Alternating current
Switching capacity ....... max. 250 VA
Switching voltage ......... max. 50 V
Switching current with
                            ohmic resistance .... max. 5 A
                            inductive resistance ... max. 2 A
Bulb, metal filament ...... max. 0.5 A

Direct current

<table>
<thead>
<tr>
<th>Switching voltage, max.</th>
<th>Ohmic load</th>
<th>Inductive load</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 V</td>
<td>5 A</td>
<td>3 A</td>
</tr>
<tr>
<td>50 V</td>
<td>1 A</td>
<td>1 A</td>
</tr>
</tbody>
</table>

Response characteristic 6)
Gain .................. Continuously adjustable
                     from 1:1 to approx. 7:1
Switching differential ... < 2.5%
Switching point
repeatability ............... < 0.2%
Parts set for later installation
Code V .................. EW 420 421 017

1) For the standard version code T, one switching amplifier is required
   e.g. Pepperl & Fuchs type WE 77/Ex 2
2) For the security version code U a fail-safe switching amplifier for each
   inductive proximity sensor is required
   e.g. Pepperl & Fuchs type WE 77/Ex-SH-03
3) Operating mode min. (= low) / max. (= high) selectable by adjustment
   of switch vanes
4) Contact closed within the positive range
5) Contact open within the positive range
6) For feedback lever effective length of 117.5 mm (4.63 in),
   stroke 30 mm (1.28 in) and maximum gain
7) National installation regulations must be observed
8) For retrofitting in positioner version -B and -C, the product must be tested
   by a qualified inspector as a special version in accordance with ElexV.
Electrical Position Transmitter Code W

Input .................. Stroke / angle from actuator via positioner feedback lever
Sensor .................. resistive precision conductive plastic element
Stroke range ............ 15 ... 80 mm (0.6 ... 3.15 in) < 15 mm (0.6 in) on request
Angular range ............ 60 ... 120 °
Output .................. Two-wire system
Signal range .......... 4 ... 20 mA
Permitted load .......... R_B_max = (U_S=12 V)/0.02 A (U_S = supply voltage)

Power supply
Supply voltage ........ DC 12 ... 36 V
Supply voltage dependency < 0.2 %
Response characteristic
Non-linearity with terminal based setting .......... < 1.0 % F.S.
Hysteresis ............ < 0.5 % F.S.
External resistance dependency .......... < 0.2 % / Δ R_B_max
Temperature effect .......... < 0.3 % / 10 K

Explosion protection 2) 3)
Type of protection ........ II 2 G Ex ib/ia IIIB/IIC T4/T6
Certificate of conformity ........ PTB 02 ATEX 2153
For operation in certified intrinsically safe circuits with the following maximum values:
U_max ............ T4: 30 V T6: 22 V
I_max ............ T4: 130 mA T6: 66 mA
P_max ............ T4: 0.9 W T6: 0.5 W
Internal inductance .......... 9 µH
Internal capacitance .......... to earth 10 nF or 6 nF differential
Ambient temperature
Temperature class T6 .......... –40 ... 40 °C (–40 ... 104 °F)
T5 .......... –40 ... 55 °C (–40 ... 131 °F)
T4 .......... –40 ... 80 °C (–40 ... 176 °F)

Parts set for later installation
Code W .................. EW 420 661 092

Common Data 4)
Ambient conditions
Ambient temperature 5) 6) .......... –25 ... 80 °C (–13 ... 176 °F)
–40 ... 80 °C (–40 ... 176 °F)
Relative humidity .......... up to 100 %
Operating conditions
as per IEC 654-1 ....... The device can be operated at a class D2 location
Transport and storage
temperature .......... –40 ... 80 °C (–40 ... 176 °F)
Protection class .......... IP 54 (IP 65 on request)
Electrical connection
Line entry ................ 1 or 2 cable glands M20x1.5 (others with Adapter AD-...)
Cable diameter .......... 6 to 12 mm (0.24 to 0.47 in)
Screw terminals .......... Screw terminals for wires up to 2.5 mm² (AWG 14)

Materials
Base plate .......... Galvanized steel
Control vane .......... Aluminum
Setting mechanism .......... Fibre glass-reinforced polyamide

Electromagnetic compatibility EMC
Operating conditions .......... industrial environment
Immunity according to
- NAMUR recommendation NE21 fulfilled
- EN 61 326 ............ fulfilled
- EN 61 000-6-2 ............ fulfilled
Emission according to
- EN 55 011,
  Group 1, Class A .......... fulfilled
- EN 61 000-6-2 ............ fulfilled
CE marking
Electromagnetic compatibility .......... 89/336/EWG
Low voltage regulations .......... w/o Ex: 73/23/EWG fulfilled
(with Ex: not applicable)

Safety
as per DIN EN 61010-1
(DIN IEC 61010-1)
(VDE 0411 part 1) .......... safety class III
overvoltage category .......... 1
internal fuses .......... none
external fuses .......... Limitation of power supplies for fire protection has to be observed due to EN 61010-1 9.3. ff.

1) For feedback lever effective length of 117.5 mm (4.63 in) and stroke 30 mm (1.28 in)
2) National installation regulations must be observed
3) For retrofitting in positioner version -B and -C, the product must be tested by a qualified inspector as a special version in accordance with ElexV
4) Except manifold with gauges
5) Without explosion protection
6) –40 ... 80 °C (–40 ... 176 °F) for the fail-safe version of inductive limit switch code U
### MODEL CODES SRP981

<table>
<thead>
<tr>
<th>Pneumatic Positioner</th>
<th>SRP981</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Version</strong></td>
<td></td>
</tr>
<tr>
<td>Single Acting</td>
<td>-B</td>
</tr>
<tr>
<td>Double Acting</td>
<td>-C</td>
</tr>
<tr>
<td><strong>Input</strong></td>
<td></td>
</tr>
<tr>
<td>Signal Range 0.2 to 1 bar/3 to 15 psi/ 20 - 100 kPa; Split-Range Up To 4-Fold Possible, Must Be Specified</td>
<td>-I</td>
</tr>
<tr>
<td><strong>Mode of Action</strong></td>
<td></td>
</tr>
<tr>
<td>Increasing Input Increases Output</td>
<td>-D</td>
</tr>
<tr>
<td>Increasing Input Decreases Output</td>
<td>-R</td>
</tr>
<tr>
<td><strong>Gauges</strong></td>
<td></td>
</tr>
<tr>
<td>Without Gauges</td>
<td>-L</td>
</tr>
<tr>
<td>Two Built-In Gauges (bar/psi)</td>
<td>(a) -M</td>
</tr>
<tr>
<td>Two Built-In Gauges (kPa/psi)</td>
<td>(a) -N</td>
</tr>
<tr>
<td><strong>Built-In Limit Switch/Position Transmitter</strong></td>
<td></td>
</tr>
<tr>
<td>Without</td>
<td>-S</td>
</tr>
<tr>
<td>Inductive Limit Switch Three-Wire Technique, Without Explosion Protection</td>
<td>(b) -R</td>
</tr>
<tr>
<td>Inductive Limit Switch (Standard Version) w. Expl. Prot. II 2 G Ex ia IIC T6 acc. to ATEX</td>
<td>(b) -T</td>
</tr>
<tr>
<td>Inductive Limit Switch (Security Version) w. Expl. Prot. II 2 G Ex ia IIC T6 acc. to ATEX</td>
<td>(b) -U</td>
</tr>
<tr>
<td>Two Micro Switches, Without Explosion Protection</td>
<td>(b) -V</td>
</tr>
<tr>
<td>Position Transmitter 4-20 mA, with Expl. Prot. II 2 G Ex ia IIC T6 acc. to ATEX</td>
<td>(b) -W</td>
</tr>
<tr>
<td><strong>Cable Entry</strong></td>
<td></td>
</tr>
<tr>
<td>Without Cable Gland</td>
<td>-1</td>
</tr>
<tr>
<td>M20 x 1.5 With One Plastic Cable Gland, Color Gray</td>
<td>(c) -7</td>
</tr>
<tr>
<td><strong>Attachment Kit</strong></td>
<td></td>
</tr>
<tr>
<td>Order as Auxiliary</td>
<td>-N</td>
</tr>
<tr>
<td><strong>Manifold</strong></td>
<td></td>
</tr>
<tr>
<td>Order as Auxiliary</td>
<td>-A</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td></td>
</tr>
<tr>
<td>Amplifier Free Of Nonferrous Metals</td>
<td>(a) -C</td>
</tr>
<tr>
<td>Manual Bypass Switch</td>
<td>(a) -T</td>
</tr>
<tr>
<td>Protection Class IP65</td>
<td>(b) -F</td>
</tr>
<tr>
<td>Assembled Free Of Oil And Grease / Designed for Aux. Energy Oxygen</td>
<td>-S</td>
</tr>
<tr>
<td><strong>Tag No. Labeling</strong></td>
<td></td>
</tr>
<tr>
<td>Stamped With Weather Resistant Color</td>
<td>-G</td>
</tr>
<tr>
<td>Stainless Steel Label Fixed With Wire</td>
<td>-L</td>
</tr>
<tr>
<td>Example Model Code:</td>
<td>SRP981 -B I D L S 1 N A -L</td>
</tr>
</tbody>
</table>

(a) Only available with Version -B
(b) Not available with Gauge Code M or N
(c) Not available with Built-In Limit Switch / Position Transmitter Code S

Auxiliars see EVE9902
Fittings see EOO9001L

### MODEL CODES Accessories

<table>
<thead>
<tr>
<th>Couple lever / cam</th>
<th>EBZG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard (a = 72 mm) (for SRP981, SRI983, SRI986, SMP981, SM91983, SGE985)</td>
<td>-AN</td>
</tr>
<tr>
<td>Extended (a = 91 mm) (for SRP981, SRI983, SRI986, SMP981, SM91983, SGE985)</td>
<td>-BN</td>
</tr>
<tr>
<td>Inverse equal percentage cam for rotary actuators (for SRP981, SRI983, SRI986)</td>
<td>-CN</td>
</tr>
<tr>
<td>Spring set</td>
<td>FESG</td>
</tr>
<tr>
<td>Range-Springs (4 pc.) (for SRP981, SRI983, SRI986)</td>
<td>-FN</td>
</tr>
</tbody>
</table>

(continued on next page)
### MODEL CODES Accessories (continued)

#### Attachment kit

<table>
<thead>
<tr>
<th>EBZG</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>For diaphragm actuators with casting yoke acc. NAMUR. (incl. standard Couple Lever)</td>
</tr>
<tr>
<td></td>
<td>(for SRP981, SR983, SMP981, SM983, SGE985).</td>
</tr>
<tr>
<td></td>
<td>For diaphragm actuators with pillar yoke acc. NAMUR. (incl. standard Couple lever)</td>
</tr>
<tr>
<td></td>
<td>(for SRP981, SR981, SM981, SM983, SGE985).</td>
</tr>
<tr>
<td></td>
<td>For rotary actuators, without flange, 3 drill holes 6.5 mm (for SRP981, SR983, SMP981, SM983, SGE985).</td>
</tr>
<tr>
<td></td>
<td>For rotary actuators, without flange, 4 threads M6 (e.g. for Petras actuators)</td>
</tr>
<tr>
<td></td>
<td>(for SRP981, SR983, SMP981, SM983, SGE985).</td>
</tr>
<tr>
<td></td>
<td>For diaphragm actuators with pillar yoke acc. NAMUR. (incl. standard Couple lever)</td>
</tr>
<tr>
<td></td>
<td>(for SRP981, SR983, SMP981, SM983, SGE985).</td>
</tr>
<tr>
<td></td>
<td>For rotary actuators acc. to VDI/VDE 3845, with shaft (for SRP981, SR983, SMP981, SM983, SGE985).</td>
</tr>
<tr>
<td></td>
<td>For rotary actuators acc. to VDI/VDE 3845, without flange, 3 drill holes 6.5 mm (for SRP981, SR983, SMP981, SM983, SGE985).</td>
</tr>
<tr>
<td></td>
<td>For rotary actuators acc. to VDI/VDE 3845, without flange, 4 threads M6 (e.g. for Petras actuators) (for SRP981, SR983, SMP981, SM983, SGE985).</td>
</tr>
<tr>
<td></td>
<td>For Masoneilan type Camflex II (for SRP981, SR983, SMP981, SM983, SGE985).</td>
</tr>
<tr>
<td></td>
<td>For Masoneilan type Sigma F (for SR986, SRP981, SR983).</td>
</tr>
<tr>
<td></td>
<td>For Masoneilan type 37/38, Fisher Elliott type 656, 667 (for SRP981, SR983, SM983, SMP981).</td>
</tr>
<tr>
<td></td>
<td>For Guide type P (for SRP981, SR983).</td>
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<tr>
<td></td>
<td>For Masoneilan type 87/88 (for SRP981, SR983, SMP981, SM983, SGE985).</td>
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<tr>
<td></td>
<td>For Masoneilan VariPak (for SRP981, SR983, SM983, SM983, SMP981).</td>
</tr>
<tr>
<td></td>
<td>For IAL actuators (for SRP981, SR983, SM983, SMP981, SM983, SMP981).</td>
</tr>
<tr>
<td></td>
<td>Brackets VDI/VDE 3845 (A = 130 mm/5.12 in; B = 50 mm/1.97 in) (SRP981, SR983, SM983, SGE985).</td>
</tr>
<tr>
<td></td>
<td>Brackets VDI/VDE 3845 (A = 80 mm/3.15 in; B = 30 mm/1.18 in) (SRP981, SR983, SM983, SGE985).</td>
</tr>
<tr>
<td></td>
<td>Brackets VDI/VDE 3845 (A = 80 mm/3.15 in; B = 20 mm/0.79 in) (SRP981, SM983, SGE985, SM983, SMP981).</td>
</tr>
<tr>
<td></td>
<td>Manifold (Connection 1/4-18NPT) LEXG</td>
</tr>
<tr>
<td></td>
<td>Staggered connections (for SRP981, SR986)</td>
</tr>
<tr>
<td></td>
<td>Connections same level (for SRP981, SR986)</td>
</tr>
<tr>
<td></td>
<td>Staggered connections for 1/4&quot;-thread pneumatic tube connection (e.g., tube diameter: 8 mm / 0.3 in)</td>
</tr>
<tr>
<td></td>
<td>With gauges for supply air, y, for version single acting (for SRP981, SR986).</td>
</tr>
<tr>
<td></td>
<td>With gauges for supply air, w, for version single acting (for SRP981).</td>
</tr>
<tr>
<td></td>
<td>With gauges for supply air, w, y, for version single acting (for SRP981).</td>
</tr>
<tr>
<td></td>
<td>With gauges for supply air, y1, y2, for version double acting (for SRP981, SR986).</td>
</tr>
<tr>
<td></td>
<td>With gauges for supply air, w, y1, y2, for version double acting (for SRP981).</td>
</tr>
<tr>
<td></td>
<td>Gauge manifold without gauge (for SRP981, SR986).</td>
</tr>
<tr>
<td></td>
<td>Gauge manifold without gauge, for supply air, y1, y2, for version double acting (for SRP981, SR986).</td>
</tr>
<tr>
<td></td>
<td>Gauge manifold without gauge, for w, y1, y2, for version double acting (for SRP981) (b).</td>
</tr>
<tr>
<td></td>
<td>Booster (Connection 1/4-18NPT) VKXG</td>
</tr>
<tr>
<td></td>
<td>For version single acting (for SRP981, SR986).</td>
</tr>
<tr>
<td></td>
<td>For version double acting (for SRP981, SR986).</td>
</tr>
<tr>
<td></td>
<td>Adapter 1/2&quot; NPT to 3/4&quot; NPT (stainless steel).</td>
</tr>
<tr>
<td></td>
<td>Adapter M20 x 1.5 to G1/2&quot; (internal thread) (stainless steel).</td>
</tr>
<tr>
<td></td>
<td>Adapter M20 x 1.5 to 1/2&quot; - 14 NPT (internal thread) (brass with nickel coating)</td>
</tr>
<tr>
<td></td>
<td>Adapter M20 x 1.5 to 1/2&quot; - 14 NPT (internal thread) (stainless steel).</td>
</tr>
<tr>
<td></td>
<td>Adapter (plastic) M20 x 1.5 to PG13.5 (internal thread).</td>
</tr>
<tr>
<td></td>
<td>Cable gland BUSG</td>
</tr>
<tr>
<td></td>
<td>M20 x 1.5 plastics, color blue</td>
</tr>
<tr>
<td></td>
<td>M20 x 1.5 plastics, color white</td>
</tr>
<tr>
<td></td>
<td>M20 x 1.5 stainless steel.</td>
</tr>
<tr>
<td></td>
<td>M20 x 1.5 plastics, color gray</td>
</tr>
<tr>
<td></td>
<td>M20 x 1.5 stainless steel EEx d</td>
</tr>
<tr>
<td></td>
<td>M20 x 1.5 brass zink plated EEx d</td>
</tr>
<tr>
<td></td>
<td>1/2-14 NPT cable gland 6…12 mm, Stainless steel, EEx d</td>
</tr>
<tr>
<td></td>
<td>1/2-14 NPT cable gland 6…12 mm, Steel zink plated, EEx d</td>
</tr>
<tr>
<td></td>
<td>1/2-14 NPT, brass zink plated, EEx d</td>
</tr>
<tr>
<td></td>
<td>M20 x 1.5 plug, plastic.</td>
</tr>
<tr>
<td></td>
<td>M20 x 1.5 plug, Stainless steel, EEx d</td>
</tr>
<tr>
<td></td>
<td>1/2-14 NPT plug, Stainless Steel, EEx d</td>
</tr>
<tr>
<td></td>
<td>M20 x 1.5 plug, brass zink plated, EEx d</td>
</tr>
<tr>
<td></td>
<td>1/2-14 NPT plug, brass zink plated, EEx d</td>
</tr>
</tbody>
</table>
# ATTACHMENT KIT FOR DIAPHRAGM ACTUATORS

**Attachment to casting yoke**
according to IEC 534-6 (NAMUR)
Code EBZG-GN

**Attachment to pillar yoke**
according to IEC 534-6 (NAMUR)
Code EBZG-FN

**Feedback lever**
Code EBZG-AN, -FN, -GN
Code EBZG-BN (extended version)

**Mounting bracket**
according to IEC 534-6 (NAMUR)
for Code EBZG-GN, FN

**Corrier bolt**
for attachment to valve stem
ATTACHMENT KIT FOR ROTARY ACTUATORS

With shaft
(according to VDI/VDE 3845)
Code EBZG-ZN

Housing dimensions
Attachment kit with shaft
resp. without flange
Code EBZG-NN

Without flange
Code EBZG-NN, -PN

Housing dimensions
Attachment kit without flange
Code EBZG-PN

With flange
Code EBZG-JN

Adaption of the actuator drive shaft end
and correct axial location by client!

*) with gauges (Option)

Rotation angle max 120°; torque requirement 14 Nm
**DIMENSIONS  Additional equipment**

**Connection manifold, staggered connections**
Code LEXG-BN

**Booster single acting**
Code VKXG-FN

**Connection manifold, connections same level**
Code LEXG-CN

**Booster single acting with doubled output capacity**
Code VKXG-HN

**Booster double acting**
Code VKXG-GN

---

1. Female thread 1/4-18 NPT for supply air
2. Female thread 1/4-18 NPT for input (w)
3. Female thread 1/4-18 NPT for output I (y1)
4. Female thread 1/4-18 NPT for output II (y2)
5. Female thread 1/2-14 NPT for output I (y1)
6. Fixing screws 17 mm A/F

---

**Unit Conversion**

<table>
<thead>
<tr>
<th>mm</th>
<th>in</th>
</tr>
</thead>
<tbody>
<tr>
<td>88</td>
<td>3.46</td>
</tr>
<tr>
<td>91</td>
<td>3.58</td>
</tr>
<tr>
<td>104</td>
<td>4.09</td>
</tr>
<tr>
<td>108</td>
<td>4.25</td>
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<tr>
<td>110</td>
<td>4.33</td>
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<td>118</td>
<td>4.64</td>
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<td>154</td>
<td>6.06</td>
</tr>
<tr>
<td>83</td>
<td>3.27</td>
</tr>
</tbody>
</table>
DIMENSIONS Additional equipment

Connection manifold with gauges Code LEXG-JN, -KN, -LN, -MN, -NN
Connection manifold for gauges Code LEXG-RN, -TN, -SN

<table>
<thead>
<tr>
<th>Manifold Code LEXG</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>Version Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>-JN (-RN*)</td>
<td>without</td>
<td>output (y)</td>
<td>supply air</td>
<td>single</td>
</tr>
<tr>
<td>-KN (-RN*)</td>
<td>input (w)</td>
<td>without</td>
<td>supply air</td>
<td>single</td>
</tr>
<tr>
<td>-LN (-RN*)</td>
<td>input (w)</td>
<td>output (y)</td>
<td>supply air</td>
<td>single</td>
</tr>
<tr>
<td>-MN (-SN*)</td>
<td>supply air</td>
<td>output I (y1)</td>
<td>output II (y2)</td>
<td>double</td>
</tr>
<tr>
<td>-NN (-SN*)</td>
<td>input (w)</td>
<td>output I (y1)</td>
<td>output II (y2)</td>
<td>double</td>
</tr>
</tbody>
</table>

*) Connection manifold for gauges, without gauges (for customer’s gauges)

1 Female thread 1/4-18 NPT for supply air
2 Female thread 1/4-18 NPT for input (w)
3 Female thread 1/4-18 NPT for output I (y1)
4 Female thread 1/4-18 NPT for output II (y2) (only on manifold Code M, N)
6 Fixing screws 17 mm A/F

Built-in limit switch Code R, T, U, V

| 1 Cable gland |
| 2 Dummy plug can be replaced with 1 |
| 3 Connection terminals |

Built-in position transmitter Code W

| 1 Cable gland |
| 2 Dummy plug can be replaced with 1 |
| 3 Connection terminals (+/−) |
| 4 Ground connection |
DIMENSIONS, CONNECTIONS

1 Female thread G 1/8 for output II (y2)  
   (only on double-acting positioner)  
2 Female thread G 1/8 for supply air  
3 Female thread G 1/8 for output I (y1)  
4 Female thread G 1/8 for input (w)  
9 Feedback lever  
10 Gauge* for input  
11 Gauge* for output  

* with gauges (optional, only on single-acting positioner)

Further Product Specification Sheets:

PSS EVE0101A-(de)    SRP981    Pneumatic Positioner  
PSS EVE0102A-(de)    SRI986    Electro-Pneumatic Positioner  
PSS EVE0103A-(de)    SRI983    Electro-Pneumatic Positioner - explosion proof or EEx d version  
PSS EVE0105A-(de)    SRD991    Intelligent Positioner  
PSS EVE0107A-(de)    SRI990    Analog Positioner  
PSS EVE0109A-(de)    SRD960    Universal Positioner

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