

## Small valves, actuators + accessories

### Product range overview



#### for radiator, floor heating and chilled ceiling applications

- **Actuators:** SSA.. / ST..40.. / ST..65..
- **Radiator valves:** VPD..-135 / VPE..-135 / VPU..-135
- **Radiator lockshield valves:** ADN.. / AEN..
- **Compression fittings:** AVN15-15
- **Adapter:** ASA.. / AV..
- **Cable:** ASY21.. / ASY61.. / ASY62..

### **Favorably priced thermal actuators ST..40 and ST..65.., for demanding requirements**

- UKCA Great Britain conformity
- Absolute noiseless actuator technology

### **Electromotive actuators SSA.. for the most demanding requirements**

- Automatic detection of valve stroke
- Low noise
- Pre-cabled

### **RF-controlled radiator valve actuator**

- SSA955 for integration in Synco system
- SSA911.02ZB for integration in SIEMENS Connected Home

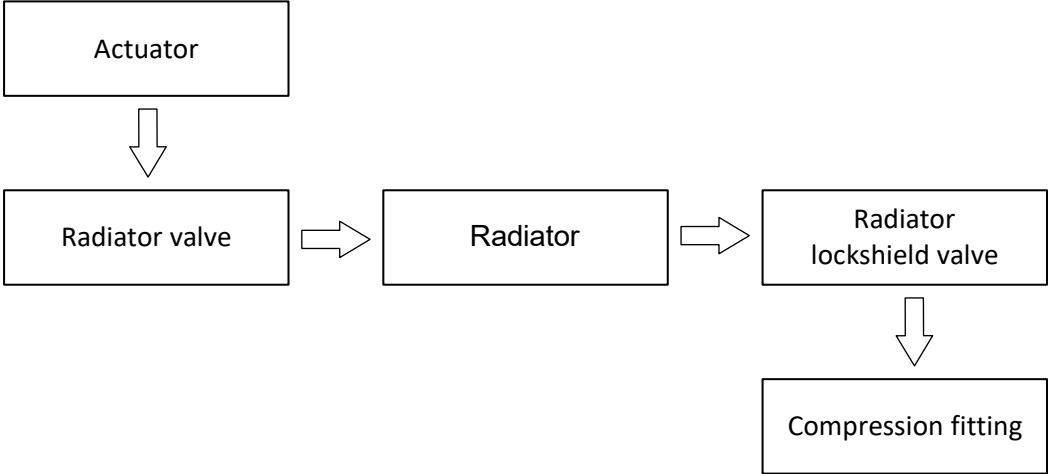
### **Pressure compensated radiator valves VPD.., VPE.., VPU.. (PICV) for perfect hydraulic balancing**

- Low noise operation
- No additional line balancing required
- Significantly simplifies hydraulic balancing
- Creates comfort and saves energy

### **Various mounting accessories**

- Simple and fast mounting.
- High operation safety

Equipment combinations: Thermostatic and electronic actuators, valves and fittings



| Electric actuators (with auxiliary power)                                          |                                                                                    |                                                                                      |                                                                                      |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| SSA118../SSA131../SSA161../SSA331..                                                | ST..40.. / ST..65..                                                                | SSA955                                                                               | SSA911.02ZB                                                                          |
|  |  |  |  |

| Radiator valves                                                                     |                                                                      |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| DIN215                                                                              | NF                                                                   |
| VPD110...-135 (3/8")<br>VPD115...-135 (1/2")<br>VPD120...-135 (3/4")                | VPD210...-135 (3/8")<br>VPD215...-135 (1/2")<br>VPD220...-135 (3/4") |
|  |                                                                      |
| VPE110...-135 (3/8")<br>VPE115...-135 (1/2")<br>VPE120...-135 (3/4")                | VPE210...-135 (3/8")<br>VPE215...-135 (1/2")<br>VPE220...-135 (3/4") |

| Radiator valves                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| DIN215                                                                              | NF                                                                                   |
|    |                                                                                      |
| VPU110A-135 (3/8")<br>VPU115A-135 (1/2")                                            | -                                                                                    |
|   |                                                                                      |
| Radiator lockshield valves                                                          |                                                                                      |
| ADN10 (3/8")<br>ADN15 (1/2")<br>ADN20 (3/4")                                        | AEN10 (3/8")<br>AEN15 (1/2")<br>AEN20 (3/4")                                         |
|   |   |
| Compression fittings                                                                |                                                                                      |
| For copper and soft pipes                                                           | For plastic pipes with aluminum foil                                                 |
| AVN15-15                                                                            | AVN15A16 <sup>1)</sup>                                                               |
|  |  |

<sup>1)</sup> Phased-out model

### Adapter (AV..)

For mounting

- Electromotive actuators SSA..
- RF-controlled actuator SSA955

on radiator valves of other manufacturer according to table:

|                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| AV.. adapters for Siemens actuators on third-party TRV valves | AV53                                                                              | AV54                                                                              | AV55                                                                              | AV57                                                                              | AV58                                                                               | AV59 <sup>1)</sup>                                                                  | AV60 <sup>1)</sup>                                                                  | AV61                                                                                |
|                                                               |  |  |  |  |  |  |  |  |
|                                                               | Danfoss RA-N                                                                      | Danfoss RAVL                                                                      | Danfoss RAV                                                                       | Herz                                                                              | Oventrop < 2002                                                                    | Vaillant                                                                            | TA < 2002                                                                           | MMA Markaryd                                                                        |
| Adapter thread                                                | -                                                                                 | -                                                                                 | -                                                                                 | M28 × 1.5                                                                         | M30 × 1                                                                            | -                                                                                   | M28 × 1.5                                                                           | M28 × 1.5                                                                           |
| Stock number                                                  | BPZ: AV53                                                                         | BPZ: AV54                                                                         | BPZ: AV55                                                                         | BPZ: AV57                                                                         | BPZ: AV58                                                                          | BPZ: AV59                                                                           | BPZ: AV60                                                                           | BPZ: AV61                                                                           |

<sup>1)</sup> Also compatible with thermal actuators ST..40.. and ST..65.. in combination with ASA80 adapter.

### Adapter (ASA..)

For mounting

- thermal actuators St..40.. and ST..65..

on radiator valves of other manufacturer according to table:

|                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ASA.. adapters for Siemens actuators on third-party TRV valves | ASA04H                                                                              | ASA10                                                                               | ASA26                                                                               | ASA59                                                                               | ASA72 <sup>1)</sup>                                                                   | ASA78                                                                                 | ASA80                                                                                 |
|                                                                |  |  |  |  |  |  |  |
|                                                                | Beulco Floorheating                                                                 | Strawa Floorheating                                                                 | Giacomini                                                                           | Danfoss RAV/L                                                                       | Danfoss RAV                                                                           | Danfoss RA                                                                            | -                                                                                     |
| Adapter thread                                                 | M30 × 1.0                                                                           | M30 × 1.5                                                                           | M30 × 1.5                                                                           | M30 × 1.5                                                                           | M30 × 1.5                                                                             | -                                                                                     | M30 × 1.5                                                                             |
| Stock number                                                   | S55845-Z304                                                                         | S55845-Z305                                                                         | S55845-Z299                                                                         | S55845-Z300                                                                         | S55845-Z301                                                                           | S55845-Z302                                                                           | S55845-Z303                                                                           |

<sup>1)</sup> Only the plastic component is included in delivery.

### Cable

|                                               |             |             |             |             |                    |             |             |
|-----------------------------------------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|
| For actuators ST..121.65/00 and ST..321.65/00 | ASY21L10    | ASY21L20    | ASY21L50    | ASY21L100   | ASY21L10H          | ASY21L50H   | ASY21L100H  |
|                                               | PVC cable   |             |             |             | Halogen-free cable |             |             |
| Cable length                                  | 1 m         | 2 m         | 5 m         | 10 m        | 1 m                | 5 m         | 10 m        |
| Stock number                                  | S55845-Z304 | S55845-Z305 | S55845-Z299 | S55845-Z300 | S55845-Z301        | S55845-Z302 | S55845-Z303 |

|                                               |                                   |          |          |           |                                            |           |            |
|-----------------------------------------------|-----------------------------------|----------|----------|-----------|--------------------------------------------|-----------|------------|
| For actuators ST..161.65L10 and ST..162.65L10 | ASY61L10                          | ASY61L20 | ASY61L50 | ASY61L100 | ASY61L10H                                  | ASY61L50H | ASY61L100H |
|                                               | PVC cable<br>no position feedback |          |          |           | Halogen-free cable<br>no position feedback |           |            |

|              |             |             |             |             |             |             |             |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Cable length | 1 m         | 2 m         | 5 m         | 10 m        | 1 m         | 5 m         | 10 m        |
| Stock number | S55845-Z285 | S55845-Z286 | S55845-Z287 | S55845-Z288 | S55845-Z289 | S55845-Z290 | S55845-Z291 |

|                                                     |                                |             |             |             |                                         |             |             |
|-----------------------------------------------------|--------------------------------|-------------|-------------|-------------|-----------------------------------------|-------------|-------------|
| For actuators<br>ST..161.65L10 and<br>ST..162.65L10 | ASY62L10                       | ASY62L20    | ASY62L50    | ASY62L100   | ASY62L10H                               | ASY62L50H   | ASY62L100H  |
|                                                     | PVC cable<br>Position feedback |             |             |             | Halogen-free cable<br>Position feedback |             |             |
| Cable length                                        | 1 m                            | 2 m         | 5 m         | 10 m        | 1 m                                     | 5 m         | 10 m        |
| Stock number                                        | S55845-Z292                    | S55845-Z293 | S55845-Z294 | S55845-Z295 | S55845-Z296                             | S55845-Z297 | S55845-Z298 |

## Type reference (alphabetical)

### Actuators

| Type         | Stock number | Brief description                                                   | Thread<br>Inch <sup>1)</sup> | Technical design       | Data sheet  |
|--------------|--------------|---------------------------------------------------------------------|------------------------------|------------------------|-------------|
| SSA118.09HKN | S55180-A111  | Electromotive actuators                                             | M30×1.5                      | DC 24 V                | A6V11858280 |
| SSA131.00    | S55180-A106  |                                                                     |                              | AC 24 V                | A6V11858276 |
| SSA151.05H   | S55180-A110  |                                                                     |                              | AC / DC 24 V           | A6V11858278 |
| SSA161.05    | S55180-A107  |                                                                     |                              |                        | A6V11858276 |
| SSA161.05HF  | S55180-A108  |                                                                     |                              |                        | A6V11858278 |
| SSA161E.05HF | S55180-A109  |                                                                     |                              | AC 230 V               | N4893       |
| SSA31        | BPZ:SSA31    |                                                                     |                              |                        | A6V11858276 |
| SSA331       | S55180-A105  |                                                                     |                              | AC / DC 24 V           | N4893       |
| SSA61        | BPZ:SSA61    |                                                                     |                              |                        | AC 24 V     |
| SSA81        | BPZ:SSA81    |                                                                     |                              |                        |             |
| SSA911.02ZB  | S55181-A105  | Wireless radiator valve actuator, works with SIEMENS Connected Home |                              | Batteries (1.5 V / AA) | A6V13722083 |
| SSA955       | BPZ:SSA955   | RF-controlled actuator for radiator valves, Synco 900               |                              | Batteries (LR6 / AA)   | N2700       |
| STA121.40L10 | S55174-A219  | Electrothermal actuators                                            |                              | AC/DC 24 V             | A6V14028280 |
| STA121.65/00 | S55174-A211  |                                                                     |                              |                        |             |
| STA121.65H20 | S55174-A208  |                                                                     |                              |                        |             |
| STA121.65L10 | S55174-A201  |                                                                     |                              |                        |             |
| STA121.65L20 | S55174-A205  |                                                                     |                              |                        |             |
| STA126.40L10 | S55174-A225  |                                                                     |                              |                        |             |
| STA161.40L10 | S55174-A222  |                                                                     |                              | AC 24 V                |             |
| STA161.65L10 | S55174-A219  |                                                                     |                              |                        |             |
| STA162.65L10 | S55174-A216  |                                                                     |                              |                        |             |
| STA321.40L10 | S55174-A218  |                                                                     |                              | AC/DC 24 V             |             |
| STA321.65/00 | S55174-A210  |                                                                     |                              |                        |             |
| STA321.65H20 | S55174-A209  |                                                                     |                              |                        |             |
| STA321.65L10 | S55174-A200  |                                                                     |                              |                        |             |
| STA321.65L20 | S55174-A204  |                                                                     |                              |                        |             |
|              |              |                                                                     | AC 230 V                     |                        |             |
|              |              |                                                                     |                              |                        |             |
|              |              |                                                                     |                              |                        |             |
|              |              |                                                                     |                              |                        |             |
|              |              |                                                                     |                              |                        |             |

| Type         | Stock number | Brief description | Thread<br>Inch <sup>1)</sup> | Technical design | Data sheet |
|--------------|--------------|-------------------|------------------------------|------------------|------------|
| STA326.40L10 | S55174-A224  |                   |                              |                  |            |
| STP121.40L10 | S55174-A221  |                   |                              | AC/DC 24 V       |            |
| STP121.65/00 | S55174-A213  |                   |                              |                  |            |
| STP121.65L10 | S55174-A203  |                   |                              |                  |            |
| STP121.65L20 | S55174-A207  |                   |                              |                  |            |
| STP161.40L10 | S55174-A223  |                   |                              |                  |            |
| STP161.65L10 | S55174-A215  |                   |                              | AC 24 V          |            |
| STP162.65L10 | S55174-A217  |                   |                              |                  |            |
| STP321.40L10 | S55174-A220  |                   |                              | AC/DC 24 V       |            |
| STP321.65/00 | S55174-A212  |                   |                              |                  |            |
| STP321.65L10 | S55174-A202  |                   |                              |                  |            |
| STP321.65L20 | S55174-A206  |                   |                              | AC 230 V         |            |
|              |              |                   |                              |                  |            |

### Valves

| Type        | Stock number | Brief description                | Thread<br>Inch <sup>1)</sup> | Technical design  | Data sheet  |
|-------------|--------------|----------------------------------|------------------------------|-------------------|-------------|
| VPD110A-135 | S55264-V165  | Radiator valves PICV<br>(2-port) | ⅜                            | 2-port DIN 215 D  | A6V13089932 |
| VPD115A-135 | S55264-V166  |                                  | ½                            |                   |             |
| VPD120A-135 | S55264-V167  |                                  | ¾                            |                   |             |
| VPD210A-135 | S55264-V173  |                                  | ⅜                            | 2-port, DIN 215 F |             |
| VPD215A-135 | S55264-V174  |                                  | ½                            |                   |             |
| VPD220A-135 | S55264-V175  |                                  | ¾                            |                   |             |
| VPE110A-135 | S55264-V168  | Radiator valves PICV<br>(Angle)  | ⅜                            | 2-port DIN 215 D  |             |
| VPE115A-135 | S55264-V169  |                                  | ½                            |                   |             |
| VPE120A-135 | S55264-V170  |                                  | ¾                            |                   |             |
| VPE210A-135 | S55264-V176  |                                  | ⅜                            | 2-port, DIN 215 F |             |
| VPE215A-135 | S55264-V177  |                                  | ½                            |                   |             |
| VPE220A-135 | S55264-V178  |                                  | ¾                            |                   |             |
| VPU110A-135 | S55264-V171  | Radiator valves PICV<br>(Axial)  | ⅜                            | 2-port DIN 215 D  |             |
| VPU115A-135 | S55264-V172  |                                  | ½                            |                   |             |

## Accessories

| Type                   | Stock number | Brief description                                           | Thread<br>Inch <sup>1)</sup>                         | Technical design | Data sheet  |
|------------------------|--------------|-------------------------------------------------------------|------------------------------------------------------|------------------|-------------|
| ADN10                  | BPZ:ADN10    | Radiator lockshield valves                                  | ⅜                                                    | 2-port           | N2107       |
| ADN15                  | BPZ:ADN15    |                                                             | ½                                                    |                  |             |
| ADN20                  | BPZ:ADN20    |                                                             | ¾                                                    |                  |             |
| AEN10                  | BPZ:AEN10    |                                                             | ⅜                                                    | angle            |             |
| AEN15                  | BPZ:AEN15    |                                                             | ½                                                    |                  |             |
| AEN20                  | BPZ:AEN20    |                                                             | ¾                                                    |                  |             |
| ALE10                  | BPZ:ALE10    | Electronic Δp manometer, 7 bar                              | M30 × 1.5                                            | -                | A6V13089932 |
| ALE12                  | S55264-V188  | Tool for measuring differential pressure, Adapter with tube |                                                      |                  | N2100       |
| ASA04H                 | S55845-Z304  | Adapters for third-party radiator valves                    |                                                      |                  |             |
| ASA10                  | S55845-Z305  |                                                             |                                                      |                  |             |
| ASA26                  | S55845-Z299  |                                                             |                                                      |                  |             |
| ASA59                  | S55845-Z300  |                                                             |                                                      |                  |             |
| ASA72                  | S55845-Z301  |                                                             |                                                      |                  |             |
| ASA78                  | S55845-Z302  |                                                             |                                                      |                  |             |
| ASA80                  | S55845-Z303  |                                                             |                                                      |                  |             |
| ATN4                   | BPZ:ATN4     |                                                             | Manual adjuster                                      | -                | N2100       |
| ATN6                   | S55264-V187  | A6V13089932                                                 |                                                      |                  |             |
| AV53                   | PBZ:AV53     | Adapters for third-party radiator valves                    | -                                                    | N2100            |             |
| AV54                   | PBZ:AV54     |                                                             |                                                      |                  |             |
| AV55                   | PBZ:AV55     |                                                             |                                                      |                  |             |
| AV57                   | PBZ:AV57     |                                                             | M28 × 1.5                                            |                  |             |
| AV58                   | PBZ:AV58     |                                                             | M30 × 1.5                                            |                  |             |
| AV59                   | PBZ:AV59     |                                                             | -                                                    |                  |             |
| AV60                   | PBZ:AV60     |                                                             | M28 × 1.5                                            |                  |             |
| AV61                   | PBZ:AV61     |                                                             |                                                      |                  |             |
| AVN15-15               | BPZ:AVN15-15 |                                                             | Compression fittings for copper and soft steel pipes |                  | ½           |
| AVN15A16 <sup>2)</sup> | BPZ:AVN15A16 | Compression fittings for plastic pipes with aluminum foil   | Connection, valve side<br>Tube ø 16 × 2 mm           |                  |             |

<sup>1)</sup> Connection, valve side

<sup>2)</sup> Phased-out model



## NO, NC valves

|           |                                                                                                                                                                                                                     |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NO valves | <ul style="list-style-type: none"> <li>Valve is opened when de-energized (Normally Open)</li> <li>The valve stem is fully extended</li> </ul> Radiator valves such as VPD.., VPE.. or VPU.. are normally NO valves. |
| NC valves | <ul style="list-style-type: none"> <li>Valve is closed when de-energized (Normally Closed)</li> <li>The valve stem is fully extended</li> </ul> Small valves such as V..P47.. are normally NC valves.               |

## Valve and actuator combination

|             |                                                                                                                          |
|-------------|--------------------------------------------------------------------------------------------------------------------------|
| NO function | <ul style="list-style-type: none"> <li>Actuator stem is retracted when de-energized.</li> <li>Valve is open.</li> </ul>  |
| NC function | <ul style="list-style-type: none"> <li>Actuator stem is extended when de-energized.</li> <li>Valve is closed.</li> </ul> |

## STA..

| Radiator valves<br>(NO valves)                                        | STA..<br>De-energized actuator |
|-----------------------------------------------------------------------|--------------------------------|
| <ul style="list-style-type: none"> <li>VPD.., VPE.., VPU..</li> </ul> | closed (NC function)           |

## SSA..

The electromotive actuator is driven by a DC 0...10 V (SSA61) positioning signal or 3-position signal (SSA31, SSA81). The description of operation in this document applies to the valve versions which are fully open when de-energized (NO).

### 3-position control signal

- Voltage at Y1: Stem retracts: Valve opens
- Voltage at Y2: Stem extends: Valve closes
- No voltage at Y1 and Y2: Actuator maintains its current position

### DC 0...10 V

- The valve opens / closes in proportion to the control signal at Y.
- At DC 0 V, the valve is fully closed.
- The actuator maintains its current position when power is switched off.

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