

## Technical brochure

# Industrial Refrigeration Stop Valves

## SVA, SVA-ST, SVA-HS & SVA-SS



SVA are angleway and straightway stop valves which are designed to meet all industrial refrigeration application requirements.

The valves are designed to give favourable flow characteristics and are easy to dismantle and repair when necessary. The valve cone is designed to ensure perfect closing.

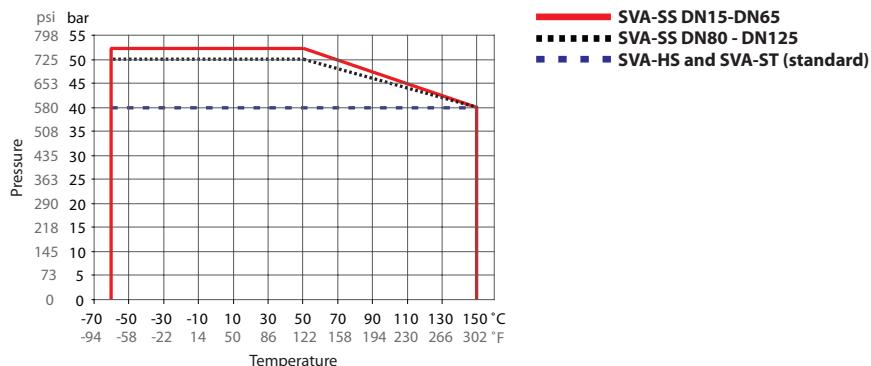
**Features**

- Applicable to all common refrigerants including R717 and non corrosive gases/liquids dependent on sealing material compatibility  
For CO<sub>2</sub> applications the SVA-S and SVA-L stop valves have to be used (SVA-S and SVA-L valves have a max. working pressure of 50/52 bar). For further information please see the technical brochure DKRCI.PD.KD1.A.
  - Optional accessories:
    - Heavy duty industrial hand wheel for frequent operation
    - Cap for infrequent operation
    - Lock washers for the stop valves subjected to high vibrations/pulsations
  - Available in angleway and straightway versions with standard bonnet or extended bonnet (15-100) for insulated systems
  - Each valve type is clearly marked with type, size and performance range
  - The valves and caps are prepared for sealing, to prevent operation by unauthorized persons, using a seal wire
  - Internal metal backseating
    - DN 6 - 65 (1/4 - 2 1/2 in.)
    - Internal PTFE backseating
    - DN 80 - 200 (3 - 8 in.)
  - Can accept flow in both directions
  - Standard bonnet is suitable for installation in normal insulated systems
  - Housing and bonnet material for SVA-ST and HS is low temperature steel according to requirements of the Pressure Equipment Directive and other international classification authorities
  - SVA-SS housing material is special cold resistant stainless steel approved for low temperature operations.
  - Stainless steel bolts.
  - Maximum allowable working pressure and temperature range
- |                    |   |
|--------------------|---|
| SVA-ST             | 40 bar (580 psi) at -50°C/+150°C (-58°F/+302°F) |
| SVA-HS             | 40 bar (580 psi) at -60°C/+150°C (-76°F/+302°F) |
| SVA-SS (DN 15-65)  | 52 bar (754 psi) at -60°C/+50°C (-76°F/+122°F)  |
| SVA-SS (DN 80-125) | 50 bar (725 psi) at -60°C/+50°C (-76°F/+122°F)  |
- For SVA-SS see the relation between PS and temperature for PS > 40 bar in the curve on page 3.
- Classification: DNV, CRN, BV etc.  
To get an updated list of certification on the products please contact your local Danfoss Sales Company

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## Pressure and temperature range



## Additional features for high spec. version (SVA-HS)

- Low temperature version with extended bonnet for insulated low temperature applications.
- Can be used in chemical and petro-chemical applications.

- Stainless steel packing gland with special teflon low temperature spindle seal.
- Temperature range:  
*High spec. version*  
-60/+150°C (-76/+302°F)

## Design

### Connections

Available with the following connections:

- Butt-weld DIN (EN 10220)
- Butt-weld ANSI (B 36.10 Schedule 80),  
- DN 6 - 40 (1/4 - 1½ in.)
- Butt-weld ANSI (B 36.10 Schedule 40),  
- DN 50 - 200 (2 - 8 in.)
- Socket Weld (ANSI B 16.11),  
- DN 15 - DN 50 (½ - 2 in.)
- Outside pipe thread  
- G 1/2 in. - G 7/8 in. (ISO 228/1)
- FPT Female Pipe Thread, NPT  
(ANSI/ASME B 1.20.1),  
- DN 15 - 32 (½ - 1¼ in.)

### Housing

Made of special, cold resistant steel (SVA-ST, HS) or stainless steel (SVA-SS) approved for low temperature operations.

### Valve cone

The valve cone can be turned on the spindle, thus there will be no friction between the cone and the seat when the valve is opened and closed. A teflon tightening ring provides perfect sealing with minimum closing force.

### Spindle

Made of polished stainless steel, ideal for O-ring sealing.

### Packing gland

Standard version (SVA 6-10 and SVA-ST):  
The standard packing gland ensures a perfect tightness in the range: -50/+150°C (-58/+302°F). The packing glands are equipped with a scraper ring to prevent penetration of dirt and ice into the packing gland.

### Stainless steel version (SVA-SS):

The stainless steel packing gland comprises a spring loaded seal packing gland which ensures a perfect tightness in the range:  
-60/+150°C (-76/+302°F).

The packing glands are equipped with a scraper ring to prevent penetration of dirt and ice into the packing gland.

### High spec. version (SVA-HS):

This comprises a threaded bush equipped with teflon wear rings to prevent damage of the spindle surface. In addition, a scraper ring is mounted to prevent dirt and ice to penetrate into the packing gland. The sealing consists of conical

shaped teflon rings supported by metal bushings and ensures a perfect tightness in the range:  
-60°C/+150°C (-76°F/+302°F).

### Pressure Equipment Directive (PED)

SVA-ST and SVA-HS valves are approved according to the European standard specified in the Pressure Equipment Directive and are CE marked.

For further details / restrictions - see Installation Instruction.

### Installation

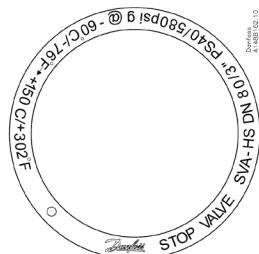
It is recommended that the valves be installed in the direction of flow indicated by the arrow on the valve body. The valve can be installed in the opposite direction but this slightly reduces the k<sub>v</sub>-value (C<sub>v</sub>-value).

The valve is designed to withstand high internal pressure. However, the piping system in general should be designed to avoid liquid traps and reduce the risk of hydraulic pressure caused by thermal expansion.

For further information refer to installation instructions for SVA.



Example of Marking Ring, Valve type SVA-ST



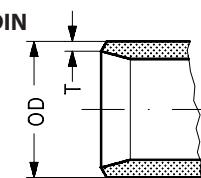
Example of marking ring, valve type SVA-HS



| SVA            |                        |                         |                          |
|----------------|------------------------|-------------------------|--------------------------|
| Nominal bore   | DN≤ 25 mm (1 in.)      | DN32-80 mm (1½ - 3 in.) | DN100 - 200 mm (4-8 in.) |
| Classified for | Fluid group I          |                         |                          |
| Category       | Article 3, paragraph 3 | II                      | III                      |

## Technical data

- Refrigerants (SVA 6-10 and SVA-ST)  
Applicable to all common non flammable refrigerants including R717 and non corrosive gases/liquids dependent on sealing material compatibility. For further information please see installation instruction for SVA.
- For CO<sub>2</sub> applications the SVA-S and SVA-L stop valves have to be used. For further information please see the technical brochure DKRCI.  
PD.KD1.A.
- Refrigerants (SVA-HS)  
Applicable to all common refrigerants including flammable hydrocarbons and all non-corrosive gases/liquids. For further information please see installation instruction for SVA-HS.
- Temperature range  
Standard version (ST):  
-50/+150°C (-58/+302°F).  
High spec. and stainless steel version (HS and SS):  
-60/+150°C (-76/+302°F).
- Pressure range  
The valves are designed for max. working pressure 40 bar g (580 psi g). Valves for higher working pressure are available on request.  
SVA-SS are designed for max. working pressure 52 bar (754 psi g).

Connections  
SVA-ST, SS and HS

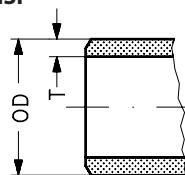
| Size mm | Size in. | OD mm | T mm | OD in. | T in. |  |  | k <sub>v</sub> -angle m <sup>3</sup> /h | k <sub>v</sub> -straight m <sup>3</sup> /h | C <sub>v</sub> -angle USgal/min | C <sub>v</sub> -straight USgal/min |
|---------|----------|-------|------|--------|-------|--|--|---|--|---------------------------------|------------------------------------|
|---------|----------|-------|------|--------|-------|--|--|---|--|---------------------------------|------------------------------------|

Butt-weld DIN (EN 10220)

|     |       |       |     |       |       |  |  |      |      |      |      |
|-----|-------|-------|-----|-------|-------|--|--|------|------|------|------|
| 6   | 1/4   | 13.5  | 2.3 | 0.531 | 0.091 |  |  | 2.9  | 2.0  | 3.4  | 2.4  |
| 10  | 5/16  | 17.2  | 2.3 | 0.677 | 0.091 |  |  | 4.5  | 3.2  | 5.2  | 3.6  |
| 15  | 1/2   | 21.3  | 2.3 | 0.839 | 0.091 |  |  | 7.0  | 4.9  | 8.1  | 5.7  |
| 20  | 5/8   | 26.9  | 2.3 | 1.059 | 0.091 |  |  | 14.6 | 10.2 | 16.9 | 11.8 |
| 25  | 1     | 33.7  | 2.6 | 1.327 | 0.103 |  |  | 24.8 | 17.4 | 28.8 | 20.2 |
| 32  | 1 1/4 | 42.4  | 2.6 | 1.669 | 0.102 |  |  | 42.6 | 29.8 | 49.4 | 34.6 |
| 40  | 1 1/2 | 48.3  | 2.6 | 1.902 | 0.103 |  |  | 45.2 | 31.6 | 52.4 | 36.7 |
| 50  | 2     | 60.3  | 2.9 | 2.37  | 0.11  |  |  | 80   | 65   | 93   | 76   |
| 65  | 2 1/2 | 73.0  | 2.9 | 3     | 0.11  |  |  | 120  | 97   | 140  | 113  |
| 80  | 3     | 88.9  | 3.2 | 3.50  | 0.13  |  |  | 182  | 152  | 211  | 176  |
| 100 | 4     | 114.3 | 3.6 | 4.50  | 0.14  |  |  | 313  | 278  | 363  | 323  |
| 125 | 5     | 139.7 | 4.0 | 5.50  | 0.16  |  |  | 514  | 470  | 596  | 545  |
| 150 | 6     | 168.3 | 4.5 | 6.63  | 0.18  |  |  | 785  | 597  | 911  | 693  |
| 200 | 8     | 219.1 | 6.3 | 8.63  | 0.25  |  |  | 1168 | 1024 | 1355 | 1188 |

| Size mm | Size in. | OD mm | T mm | OD in. | T in. |  |  | k <sub>v</sub> -angle m <sup>3</sup> /h | k <sub>v</sub> -straight m <sup>3</sup> /h | C <sub>v</sub> -angle USgal/min | C <sub>v</sub> -straight USgal/min |
|---------|----------|-------|------|--------|-------|--|--|---|--|---------------------------------|------------------------------------|
|---------|----------|-------|------|--------|-------|--|--|---|--|---------------------------------|------------------------------------|

## ANSI

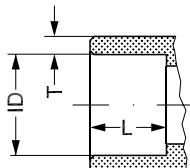


Butt-weld ANSI (B 36.10 Schedule 80)

|    |       |      |     |       |       |  |  |      |      |      |      |
|----|-------|------|-----|-------|-------|--|--|------|------|------|------|
| 6  | 1/4   | 13.5 | 3.0 | 0.531 | 0.118 |  |  | 2.9  | 2.03 | 3.4  | 2.4  |
| 10 | 5/16  | 17.2 | 3.2 | 0.677 | 0.126 |  |  | 4.5  | 3.15 | 5.2  | 3.6  |
| 15 | 1/2   | 21.3 | 3.7 | 0.839 | 0.146 |  |  | 7.0  | 4.9  | 8.1  | 5.7  |
| 20 | 5/8   | 26.9 | 4.0 | 1.059 | 0.158 |  |  | 14.6 | 10.2 | 16.9 | 11.8 |
| 25 | 1     | 33.7 | 4.6 | 1.327 | 0.181 |  |  | 24.8 | 17.4 | 28.8 | 20.2 |
| 32 | 1 1/4 | 42.4 | 4.9 | 1.669 | 0.193 |  |  | 42.6 | 29.8 | 49.4 | 34.6 |
| 40 | 1 1/2 | 48.3 | 5.1 | 1.902 | 0.201 |  |  | 45.2 | 31.6 | 52.4 | 36.7 |

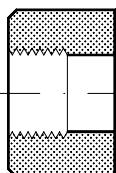
Butt-weld ANSI (B 36.10 Schedule 40)

|     |       |       |     |      |      |  |  |      |      |      |      |
|-----|-------|-------|-----|------|------|--|--|------|------|------|------|
| 50  | 2     | 60.3  | 3.9 | 2.37 | 0.15 |  |  | 80   | 65   | 93   | 76   |
| 65  | 2 1/2 | 73.0  | 5.2 | 2.87 | 0.20 |  |  | 120  | 97   | 140  | 113  |
| 80  | 3     | 88.9  | 5.5 | 3.50 | 0.22 |  |  | 182  | 152  | 211  | 176  |
| 100 | 4     | 114.3 | 6.0 | 4.50 | 0.24 |  |  | 313  | 278  | 363  | 323  |
| 125 | 5     | 141.3 | 6.6 | 5.56 | 0.26 |  |  | 514  | 470  | 596  | 545  |
| 150 | 6     | 168.3 | 7.1 | 6.63 | 0.28 |  |  | 785  | 597  | 911  | 693  |
| 200 | 8     | 219.1 | 8.2 | 8.63 | 0.32 |  |  | 1168 | 1024 | 1355 | 1188 |

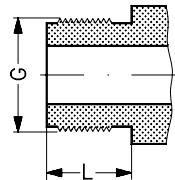
**Connections  
SVA-ST, SS and HS (continued)**
**SOC**

**Socket welding ANSI (B 16.11)**

| Size mm | Size in. | OD mm | T mm | OD in. | T in. |    |      | $k_v$ -angle m³/h | $k_v$ -straight m³/h | $C_v$ -angle USgal/min | $C_v$ -straight USgal/min |
|---------|----------|-------|------|--------|-------|----|------|-------------------|----------------------|------------------------|---------------------------|
| 15      | 1/2      | 21.8  | 6.0  | 0.858  | 0.235 | 10 | 0.39 | 7.0               | 4.9                  | 8.1                    | 5.7                       |
| 20      | 3/4      | 27.2  | 4.6  | 1.071  | 0.181 | 13 | 0.51 | 10.0              | 7.0                  | 11.9                   | 8.1                       |
| 25      | 1        | 33.9  | 7.2  | 1.335  | 0.284 | 13 | 0.51 | 24.8              | 17.4                 | 28.8                   | 20.2                      |
| 32      | 1 1/4    | 42.7  | 6.1  | 1.743  | 0.240 | 13 | 0.51 | 42.6              | 29.8                 | 49.4                   | 34.6                      |
| 40      | 1 1/2    | 48.8  | 6.6  | 1.921  | 0.260 | 13 | 0.51 | 45.2              | 31.6                 | 52.4                   | 36.7                      |
| 50      | 2        | 61.2  | 6.2  | 2.41   | 0.24  | 16 | 0.63 | 80                | 65                   | 93                     | 76                        |

| Size mm | Size in. | Inside pipe tread |  |  | $k_v$ -angle m³/h | $k_v$ -straight m³/h | $C_v$ -angle USgal/min | $C_v$ -straight USgal/min |
|---------|----------|-------------------|--|--|-------------------|----------------------|------------------------|---------------------------|
|         |          |                   |  |  |                   |                      |                        |                           |

**FPT**

**FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1)**

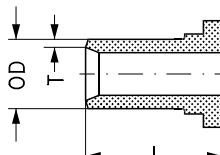
|    |       |                    |  |  |  |     |      |      |      |
|----|-------|--------------------|--|--|--|-----|------|------|------|
| 15 | 1/2   | (1/2 x 14 NPT)     |  |  |  | 8.5 | 6.0  | 9.9  | 7.0  |
| 20 | 3/4   | (3/4 x 14 NPT)     |  |  |  | 10  | 7.0  | 11.6 | 8.1  |
| 25 | 1     | (1 x 11.5 NPT)     |  |  |  | 32  | 22.4 | 37.1 | 26.0 |
| 32 | 1 1/4 | (1 1/4 x 11.5 NPT) |  |  |  | 36  | 25.2 | 41.8 | 29.3 |

**Connections - SVA 6 and SVA-ST 15**
**T**


| Size mm | Size in. | Outside pipe thread | L mm | L in. | $K_v$ -angle m³/h | $K_v$ -str. m³/h | $C_v$ -angle USgal/min | $C_v$ -str. USgal/min |
|---------|----------|---------------------|------|-------|-------------------|------------------|------------------------|-----------------------|
|         |          |                     |      |       |                   |                  |                        |                       |

**T outside pipe thread, (ISO 228/1)**

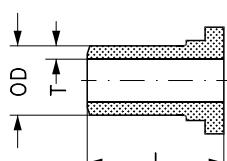
|    |           |       |    |      |     |     |     |     |
|----|-----------|-------|----|------|-----|-----|-----|-----|
| 6  | 1/4       | G 1/2 | 16 | 0.63 | 2.5 | 2.0 | 2.9 | 2.0 |
| 15 | 3/8 - 1/2 | G 7/8 | 19 | 0.76 | 7.0 | 4.9 | 8.1 | 5.7 |

**Nipples for T outside pipe thread, (ISO 228/1)**
**ND**


| Size mm | Size in. | OD mm | T mm | OD in. | T in. | L mm | L in. | Inside pipe thread |  |  |
|---------|----------|-------|------|--------|-------|------|-------|--------------------|--|--|
|         |          |       |      |        |       |      |       |                    |  |  |

**ND welding nipples, (DIN 2448)**

|    |     |      |     |       |       |    |      |       |  |  |
|----|-----|------|-----|-------|-------|----|------|-------|--|--|
| 6  | 1/4 | 13.5 | 2.3 | 0.531 | 0.091 | 60 | 2.36 | G 1/2 |  |  |
| 10 | 3/8 | 17.2 | 2.3 | 0.677 | 0.091 | 50 | 1.97 | G 7/8 |  |  |
| 15 | 1/2 | 21.3 | 2.3 | 0.852 | 0.091 | 50 | 1.97 | G 7/8 |  |  |

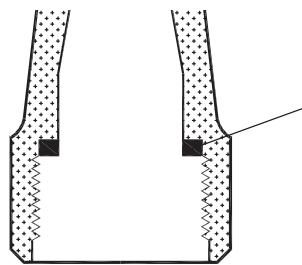
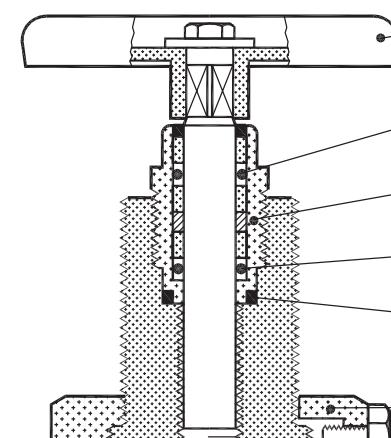
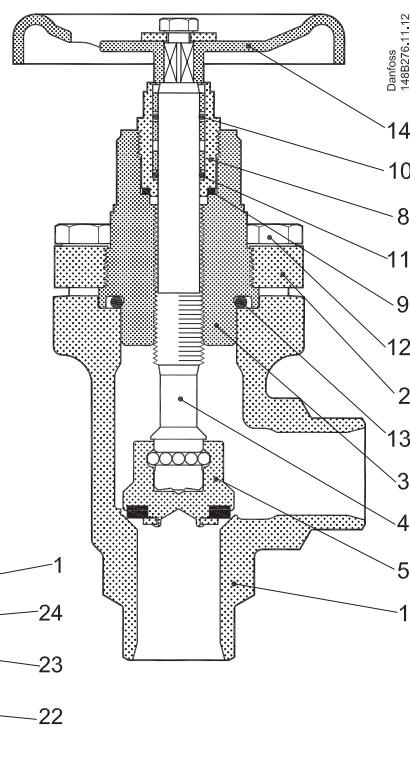
**NA**


| Size mm | Size in. | OD mm | T mm | OD in. | T in. | L mm | L in. | Inside pipe thread |  |  |
|---------|----------|-------|------|--------|-------|------|-------|--------------------|--|--|
|         |          |       |      |        |       |      |       |                    |  |  |

**NA welding nipples, ANSI (B 36.10 Schedule 80)**

|    |     |      |     |       |       |    |      |       |  |  |
|----|-----|------|-----|-------|-------|----|------|-------|--|--|
| 6  | 1/4 | 13.5 | 3.0 | 0.531 | 0.118 | 60 | 2.36 | G 1/2 |  |  |
| 10 | 3/8 | 17.2 | 3.2 | 0.677 | 0.126 | 50 | 1.97 | G 7/8 |  |  |
| 15 | 1/2 | 21.3 | 3.7 | 0.852 | 0.198 | 50 | 1.97 | G 7/8 |  |  |

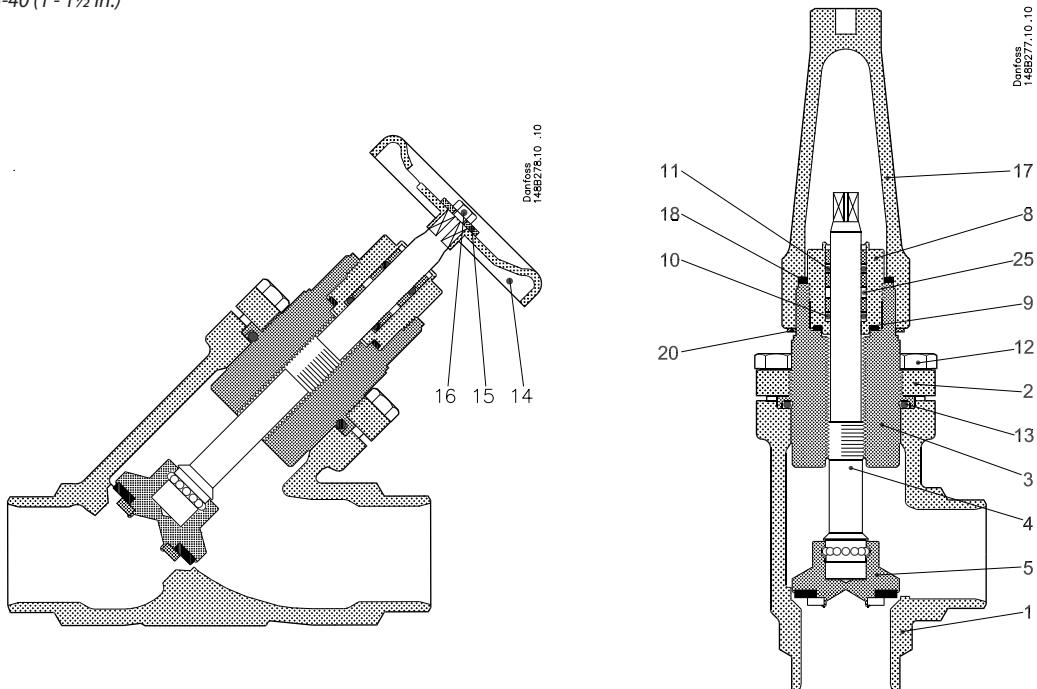
## Material specification

SVA-ST 6-10 ( $\frac{1}{4}$  -  $\frac{3}{8}$  in.)SVA-ST and SVA-SS 15-20 ( $\frac{1}{2}$  -  $\frac{3}{4}$  in.)

| No. | Part                               | Material                 | EN  | ISO               | ASTM               |
|-----|------------------------------------|--------------------------|---|-------------------|--------------------|
| 1   | Housing                            | Steel                    | G20Mn5QT, 10213-3                               |                   | LCC, A352          |
|     |                                    |                          | -----<br>P285QH+QT, 10222-4                     |                   | -----<br>LF2, A350 |
|     |                                    | Stainless steel (SVA-SS) | X5CrNi18-10, 10088                              |                   | AISI 304           |
| 2   | Bonnet, Flange                     | Steel                    | G20Mn5QT, 10213-3                               |                   | LCC, A352          |
|     |                                    |                          | -----<br>P285QH+QT, 10222-4                     |                   | -----<br>LF2, A350 |
|     |                                    | Stainless steel (SVA-SS) | P275NL, 10028-3                                 |                   |                    |
| 3   | Bonnet, Insert                     | Steel                    | X5CrNi18-10, 10088                              | Type 2<br>R 683/9 | AISI 304           |
|     |                                    | Stainless steel (SVA-SS) | 11SMn30<br>10087                                |                   | AISI 1213          |
| 4   | Spindle                            | Stainless steel          | X8CrNiS18-9<br>10088<br>DIN 17440 (SVA-SS only) | Type 17<br>683/13 | AISI 303           |
| 5   | Cone                               | Steel                    | 11SMn30<br>10087                                | Type 2<br>R 683/9 | AISI 1213          |
| 8   | Packing gland                      | Stainless steel          | X8CrNiS18-9<br>10088                            | Type 17<br>683/13 | AISI 303           |
| 9   | Packing washer                     | Aluminium                |   |                   |                    |
| 10  | O-ring                             | Cloroprene (Neoprene)    |   |                   |                    |
| 11  | O-ring (SVA-ST)                    | Cloroprene (Neoprene)    |   |                   |                    |
|     | Spring loaded Teflon ring (SVA-SS) | PTFE                     |   |                   |                    |
| 12  | Bolts                              | Stainless steel          | A2-70   | A2-70             | Type 308           |
| 13  | O-ring                             | Cloroprene (Neoprene)    |   |                   |                    |
| 14  | Handwheel                          | Steel                    |   |                   |                    |
| 17  | Cap                                | Aluminium                |   |                   |                    |
| 18  | Gasket f. cap                      | Nylon                    |   |                   |                    |
| 19  | Locking nut                        | Steel                    |   |                   |                    |
| 20  | Screw                              | Steel                    |   |                   |                    |
| 22  | Welding nipple                     | Steel                    | S235JRG2<br>10025                               | Fe260B, 630       | Grade C, A 283     |
| 23  | Nut                                | Steel                    | 11SMn30<br>10087                                | Type 2<br>R 683/9 | AISI 1213          |
| 24  | Packing washer                     | Non-asbestos             |   |                   |                    |

## Material specification

SVA-ST, SS 25-40 (1 - 1½ in.)

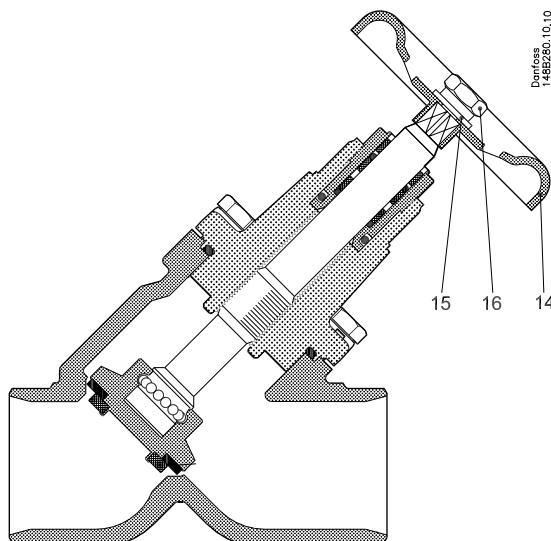


SVA-ST, SS

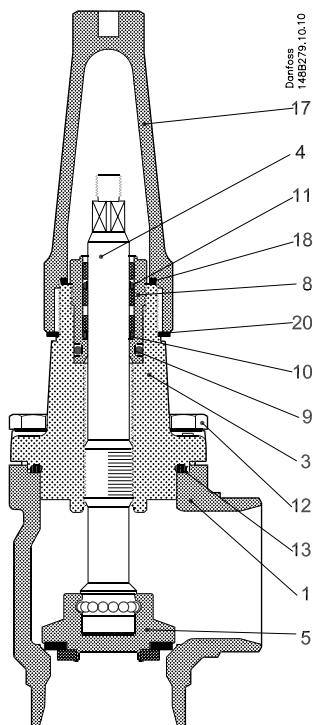
| No. | Part                                  | Material                 | EN   | ISO               | ASTM                            |
|-----|---------------------------------------|--------------------------|--|-------------------|---------------------------------|
| 1   | Housing                               | Steel                    | G20Mn5QT, 10213-3<br>-----<br>P285QH+QT, 10222-4                             |                   | LCC, A352<br>-----<br>LF2, A350 |
|     |                                       | Stainless steel (SVA-SS) | XSCrNi18-10, 10088   |                   | AISI 304                        |
| 2   | Bonnet, flange                        | Steel                    | G20Mn5QT, 10213-3<br>-----<br>P285QH+QT, 10222-4<br>-----<br>P275NL, 10028-3 |                   | LCC, A352<br>-----<br>LF2, A350 |
|     |                                       | Stainless steel (SVA-SS) | XSCrNi18-10, 10088   |                   | AISI 304                        |
|     |                                       | Steel                    | 11SMn30<br>10087   | Type 2<br>R 683/9 | AISI 1213                       |
| 3   | Bonnet, Insert                        | Stainless steel (SVA-SS) |  |                   |                                 |
| 4   | Spindle                               | Stainless steel          | X8CrNiS18-9<br>10088<br>DIN 17440 (SVA-SS only)                              | Type 17<br>683/13 | AISI 303                        |
| 5   | Cone<br>Cone seal                     | Steel<br>Teflon (PTFE)   | 11SMn30<br>10087   | Type 2, R 683/9   | AISI 1213                       |
| 8   | Packing gland                         | Stainless steel          | X8CrNiS18-9<br>10088   | Type 17<br>683/13 | AISI 303                        |
| 9   | O-ring                                | Cloroprene (Neoprene)    |  |                   |                                 |
| 10  | O-ring (SVA-ST)                       | Cloroprene (Neoprene)    |  |                   |                                 |
|     | Spring loaded Teflon ring<br>(SVA-SS) | PTFE                     |  |                   |                                 |
| 11  | O-ring                                | Cloroprene (Neoprene)    |  |                   |                                 |
| 12  | Bolts                                 | Stainless steel          | A2-70  | A2-70             | Type 308                        |
| 13  | O-ring                                | Cloroprene (Neoprene)    |  |                   |                                 |
| 14  | Hand wheel                            | Steel                    |  |                   |                                 |
| 15  | Washer                                | Stainless steel (A2)     |  |                   |                                 |
| 16  | Screw                                 | Stainless steel (A2)     |  |                   |                                 |
| 17  | Cap                                   | Aluminium                |  |                   |                                 |
| 18  | Gasket for cap                        | Nylon                    |  |                   |                                 |
| 20  | Identification ring                   | Stainless steel          |  |                   |                                 |

## Material specification

SVA-ST, SS 50-65 (2 - 2½ in.)



SVA-ST, SS 50-65 (2-2½ in.) and SVA-SS 80-125 (3 - 5 in.)

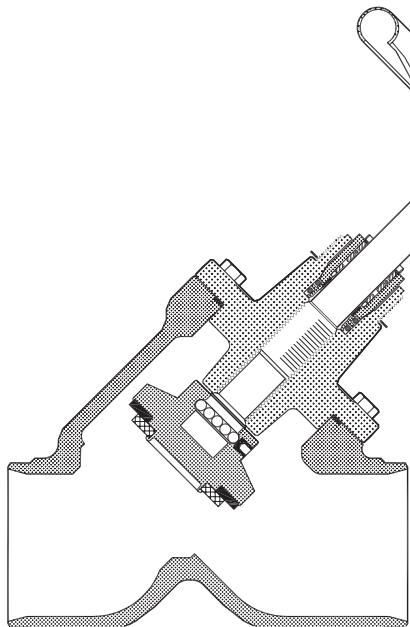
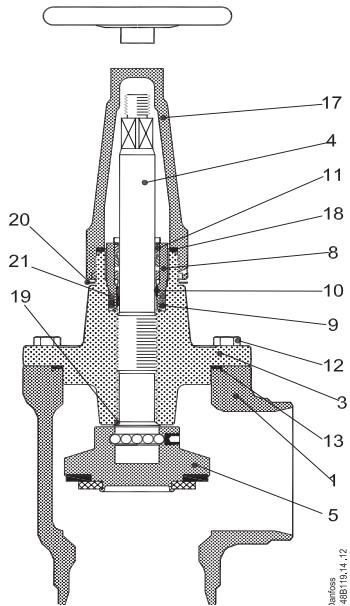


SVA-ST, SS

| No. | Part                                  | Material  | EN   | ISO                 | ASTM                            |
|-----|---------------------------------------|---|--|---------------------|---------------------------------|
| 1   | Housing                               | Steel   | G20Mn5QT, 10213-3<br>-----<br>P285QH+QT, 10222-4 |                     | LCC, A352<br>-----<br>LF2, A350 |
|     |                                       | Stainless steel (SVA-SS 50-65)<br>Stainless steel (SVA-SS 80-125) | XSCrNi18-10, 10088<br>GX5CrNi 18-10, 10213-4     |                     | AISI 304                        |
| 3   | Valve bonnet                          | Steel   | G20Mn5QT, 10213-3<br>-----<br>P285QH+QT, 10222-4 |                     | LCC, A352<br>-----<br>LF2, A350 |
|     |                                       | Stainless steel (SVA-SS 50-65)<br>Stainless steel (SVA SS 80-125) | XSCrNi18-10, 10088<br>GX5CrNiMo 19-11, 10213-4   |                     | AISI 304                        |
| 4   | Spindle                               | Stainless steel   | X8CrNiS18-9<br>10088<br>DIN 17440 (SVA-SS only)  | Type 17<br>R 683/13 | AISI 303                        |
| 5   | Cone<br>Cone seal                     | Steel<br>Teflon (PTFE)  | 11SMn30<br>10087                                 | Type 2, R 683/13    | AISI 1213                       |
| 8   | Packing<br>gland                      | Stainless steel   | X8CrNiS18-9<br>10088                             | Type 17<br>R 683/13 | AISI 303                        |
| 9   | O-ring                                | Cloroprene (Neoprene)   |  |                     |                                 |
| 10  | O-ring (SVA-ST)                       | Cloroprene (Neoprene)   |  |                     |                                 |
|     | Spring loaded Teflon ring<br>(SVA-SS) | PTFE  |  |                     |                                 |
| 11  | O-ring                                | Cloroprene (Neoprene)   |  |                     |                                 |
| 12  | Bolts                                 | Stainless steel   | A2-70  | A2-70               | Type 308                        |
| 13  | O-ring                                | Cloroprene (Neoprene)   |  |                     |                                 |
| 14  | Hand wheel                            | Steel   |  |                     |                                 |
| 15  | Washer                                | Stainless steel (A2)  |  |                     |                                 |
| 16  | Nut                                   | Stainless steel (A2)  |  |                     |                                 |
| 17  | Cap                                   | Aluminium   |  |                     |                                 |
| 18  | Gasket for cap                        | Nylon (PA 6)  |  |                     |                                 |
| 20  | Identification ring                   | Stainless steel   |  |                     |                                 |

## Material specification

SVA-ST 80 - 200 (3 - 8 in.)

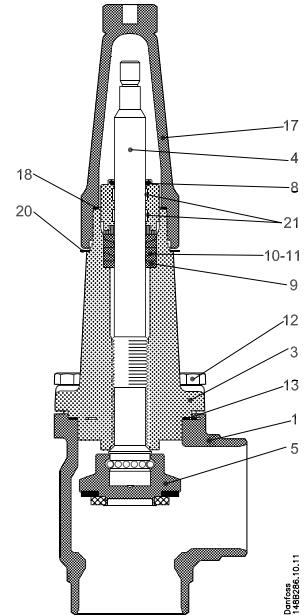
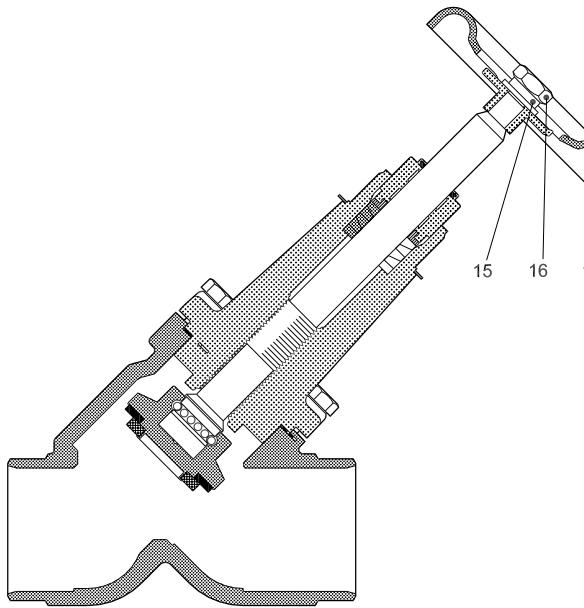
Danfoss  
148B120.13.10Danfoss  
48B119.14.12

## SVA-ST

| No. | Part                | Material               | EN   | ISO                  | ASTM                            |
|-----|---------------------|------------------------|--|----------------------|---------------------------------|
| 1   | Housing             | Steel                  | G20Mn5QT<br>10213-3                              |                      | LCC<br>A352                     |
| 3   | Valve bonnet        | Steel                  | G20Mn5QT, 10213-3<br>-----<br>P285QH+QT, 10222-4 |                      | LCC, A352<br>-----<br>LF2, A350 |
| 4   | Spindle             | Stainless steel        | X5CrNi18-10<br>10088                             | Type 11,<br>R 683/13 | AISI 304,<br>A276               |
| 5   | Cone<br>Cone seal   | Steel<br>Teflon (PTFE) | 11SMn30<br>10087                                 | Type 2, R 683/9      | AISI 1213                       |
| 8   | Packing gland       | Stainless steel        | X8CrNiS18-9<br>10088                             | Type 17<br>R 683/13  | AISI 303                        |
| 9   | O-ring              | Cloroprene (Neoprene)  |  |                      |                                 |
| 10  | O-ring              | Cloroprene (Neoprene)  |  |                      |                                 |
| 11  | O-ring              | Cloroprene (Neoprene)  |  |                      |                                 |
| 12  | Bolts               | Stainless steel        | A2-70  | A2-70                | Type 308                        |
| 13  | O-ring              | Cloroprene (Neoprene)  |  |                      |                                 |
| 14  | Hand wheel          | Steel                  |  |                      |                                 |
| 15  | Washer              | Stainless steel        |  |                      |                                 |
| 16  | Nut                 | Stainless steel        |  |                      |                                 |
| 17  | Cap                 | Aluminium              |  |                      |                                 |
| 18  | Gasket for cap      | Nylon (PA 6)           |  |                      |                                 |
| 19  | Soft backseat       | Teflon (PTFE)          |  |                      |                                 |
| 20  | Identification ring | Stainless steel        |  |                      |                                 |
| 21  | Wear ring           | Teflon (PTFE)          |  |                      |                                 |

## Material specification

SVA-HS 15 - 65 (½ - 2½ in.)

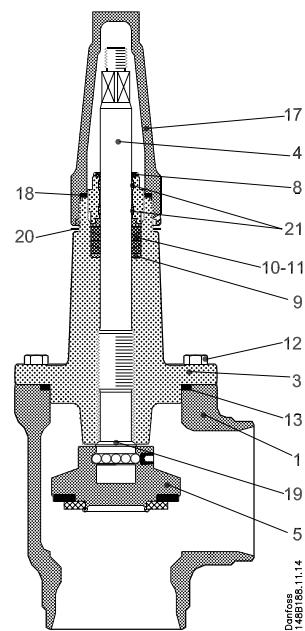
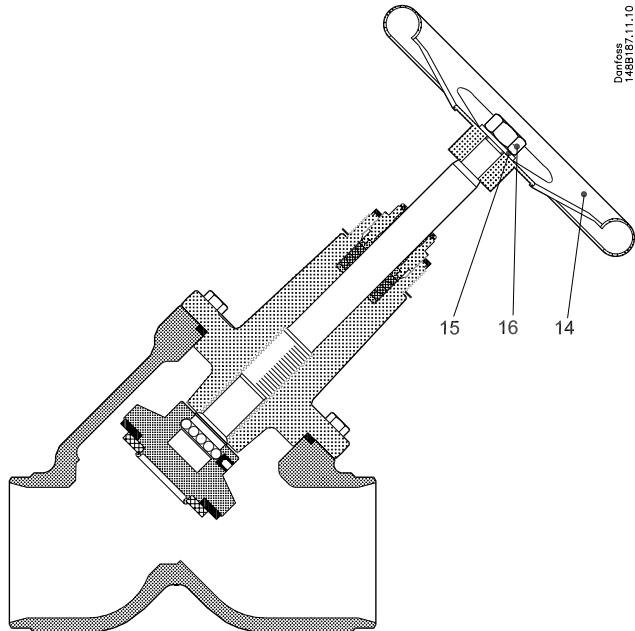


SVA-HS

| No.   | Part                | Material            | EN   | ISO                 | ASTM                            |
|-------|---------------------|---------------------|--|---------------------|---------------------------------|
| 1     | Housing             | Steel               | G20Mn5QT, 10213-3<br>-----<br>P285QH+QT, 10222-4 |                     | LCC, A352<br>-----<br>LF2, A350 |
| 3     | Valve bonnet        | Steel               | G20Mn5QT, 10213-3<br>-----<br>P285QH+QT, 10222-4 |                     | LCC, A352<br>-----<br>LF2, A350 |
| 4     | Spindle             | Stainless steel     | X2CrNiMo17-12-2<br>10088                         |                     | AISI 316                        |
| 5     | Cone<br>Cone seal   | Steel<br>PTFE       | 11SMn30<br>10087                                 | Type 2, R 683/9     | AISI 1213                       |
| 8     | Packing gland       | Stainless steel     | X8CrNiS18-9<br>10088                             | Type 17<br>R 683/13 | AISI 303                        |
| 9     | Washer              | Cast iron           |  |                     |                                 |
| 10-11 | Seal ring           | PTFE                |  |                     |                                 |
| 12    | Bolts               | Stainless steel     | A2-70  | A2-70               | Type 308                        |
| 13    | Gasket              | Fiber, Non-asbestos |  |                     |                                 |
| 14    | Hand wheel          | Steel               |  |                     |                                 |
| 15    | Washer              | Stainless steel     |  |                     |                                 |
| 16    | Screw/Nut           | Stainless steel     |  |                     |                                 |
| 17    | Cap                 | Aluminium           |  |                     |                                 |
| 18    | Gasket for cap      | Nylon (PA6)         |  |                     |                                 |
| 20    | Identification ring | Stainless steel     |  |                     |                                 |
| 21    | Wear ring           | PTFE (Teflon)       |  |                     |                                 |

## Material specification

SVA-HS 80 - 200 (3 - 8 in.)

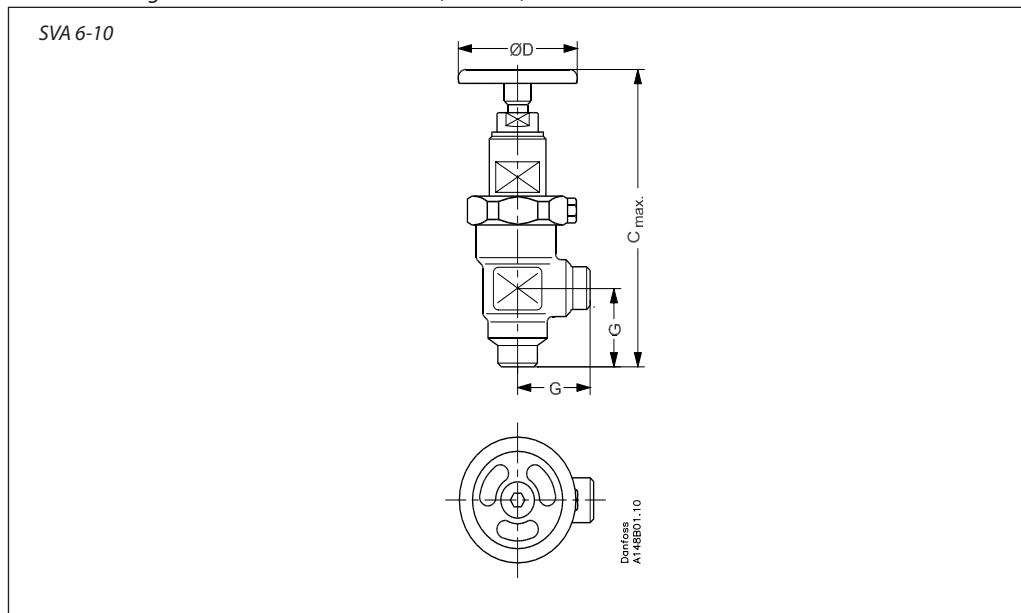


SVA-HS

| No.   | Part                      | Material            | EN   | ISO                 | ASTM                            |
|-------|---------------------------|---------------------|--|---------------------|---------------------------------|
| 1     | Housing                   | Steel               | G20Mn5QT<br>10213-3                              |                     | LCC<br>A352                     |
| 3     | Valve bonnet              | Steel               | G20Mn5QT, 10213-3<br>-----<br>P285QH+QT, 10222-4 |                     | LCC, A352<br>-----<br>LF2, A350 |
| 4     | Spindle                   | Stainless steel     | X2CrNiMo17-12-2<br>10088                         |                     | AISI 316                        |
| 5     | Cone<br>Cone seal         | Steel<br>PTFE       | 11SMn30<br>10087                                 | Type 2, R 683/9     | AISI 1213                       |
| 8     | Packing gland             | Stainless steel     | X8CrNiS18-9<br>10088                             | Type 17<br>R 683/13 | AISI 303                        |
| 9     | Washer                    | Cast iron           |  |                     |                                 |
| 10-11 | Seal ring                 | PTFE                |  |                     |                                 |
| 12    | Bolts                     | Stainless steel     | A2-70  | A2-70               | Type 308                        |
| 13    | Gasket                    | Fiber, Non-asbestos |  |                     |                                 |
| 14    | Hand wheel                | Steel               |  |                     |                                 |
| 15    | Washer                    | Stainless steel     |  |                     |                                 |
| 16    | Screw/Nut                 | Stainless steel     |  |                     |                                 |
| 17    | Cap                       | Aluminium           |  |                     |                                 |
| 18    | Gasket for cap            | Nylon (PA6)         |  |                     |                                 |
| 19    | Internal soft backseating | PTFE                |  |                     |                                 |
| 20    | Identification ring       | Stainless steel     |  |                     |                                 |
| 21    | Wear ring                 | PTFE                |  |                     |                                 |

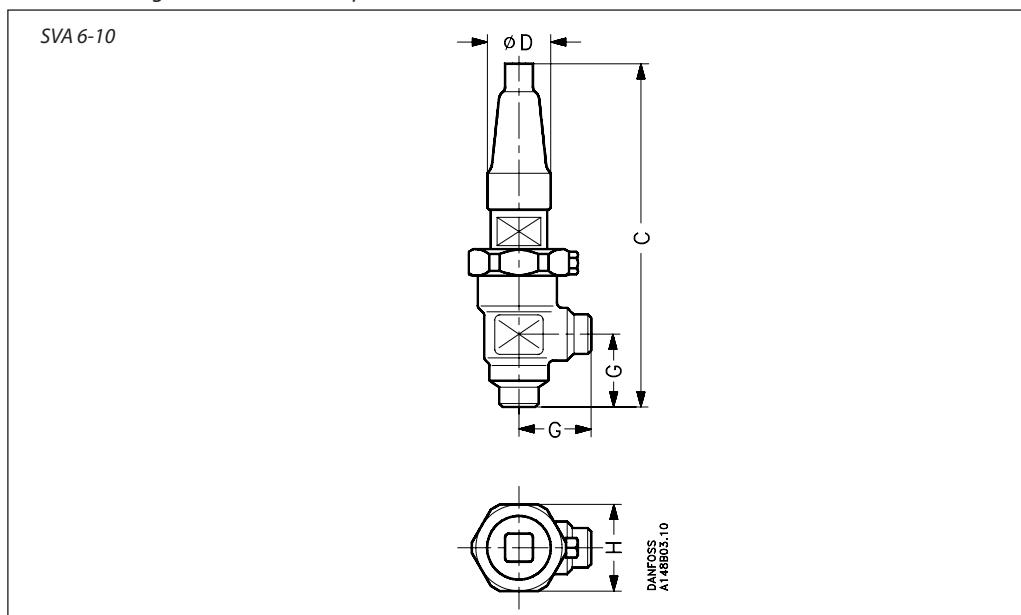
## Dimensions and weights

SVA 6 -10 in angle execution with handwheel (SVA 121)



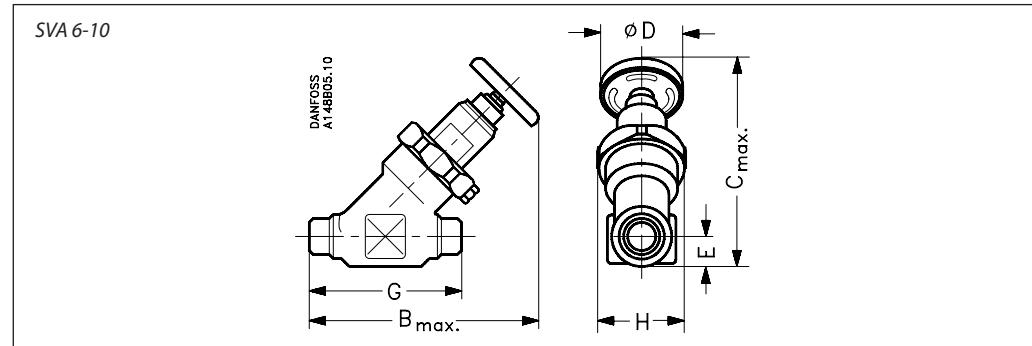
| Valve size |           | C <sub>max.</sub> | G          | ØD         | □H         | Weight |
|------------|-----------|-------------------|------------|------------|------------|--------|
| SVA 6      | mm<br>in. | 128<br>5.04       | 30<br>1.18 | 50<br>1.97 |            | 0.7 kg |
| SVA 10     | mm<br>in. | 173<br>6.81       | 45<br>1.77 | 60<br>2.36 | 60<br>2.36 | 1.4 kg |

SVA 6 - 10 in angle execution with cap (SVA 123)

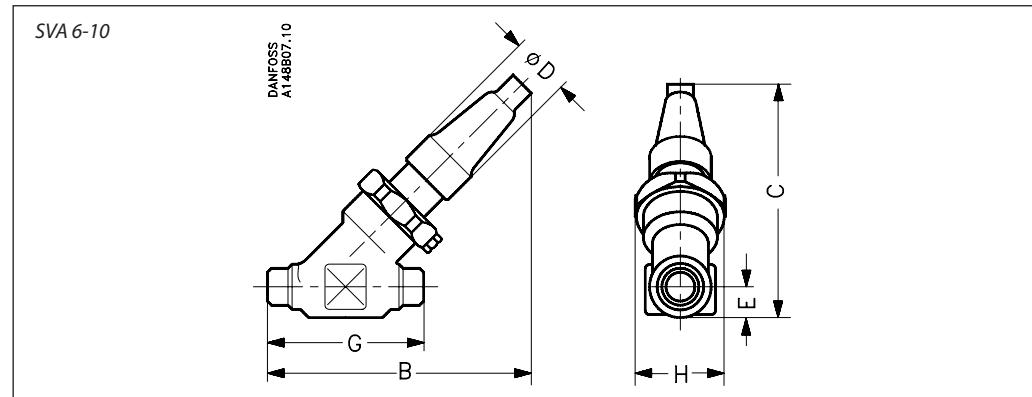


| Valve size |           | C           | G          | ØD         | □H         | Weight |
|------------|-----------|-------------|------------|------------|------------|--------|
| SVA 6      | mm<br>in. | 139<br>5.47 | 30<br>1.18 | 30<br>1.18 | 48<br>1.89 | 0.8 kg |
| SVA 10     | mm<br>in. | 182<br>7.17 | 45<br>1.77 | 38<br>1.50 | 60<br>2.36 | 1.4 kg |

Specified weights are approximate values only.

**Dimensions and weights**
**SVA 6 - 10 in straight-way execution with handwheel (SVA 221)**


| Valve size |           | C <sub>max.</sub> | B <sub>max.</sub> | E          | G           | ØD         | □H         | Weight |
|------------|-----------|-------------------|-------------------|------------|-------------|------------|------------|--------|
| SVA 6      | mm<br>in. | 110<br>4.33       | 120<br>4.72       | 13<br>0.49 | 70<br>2.76  | 50<br>1.97 | 48<br>1.89 | 0.7 kg |
| SVA 10     | mm<br>in. | 145<br>5.71       | 160<br>6.30       | 20<br>0.79 | 120<br>4.72 | 60<br>2.36 | 60<br>2.36 | 2.0 kg |

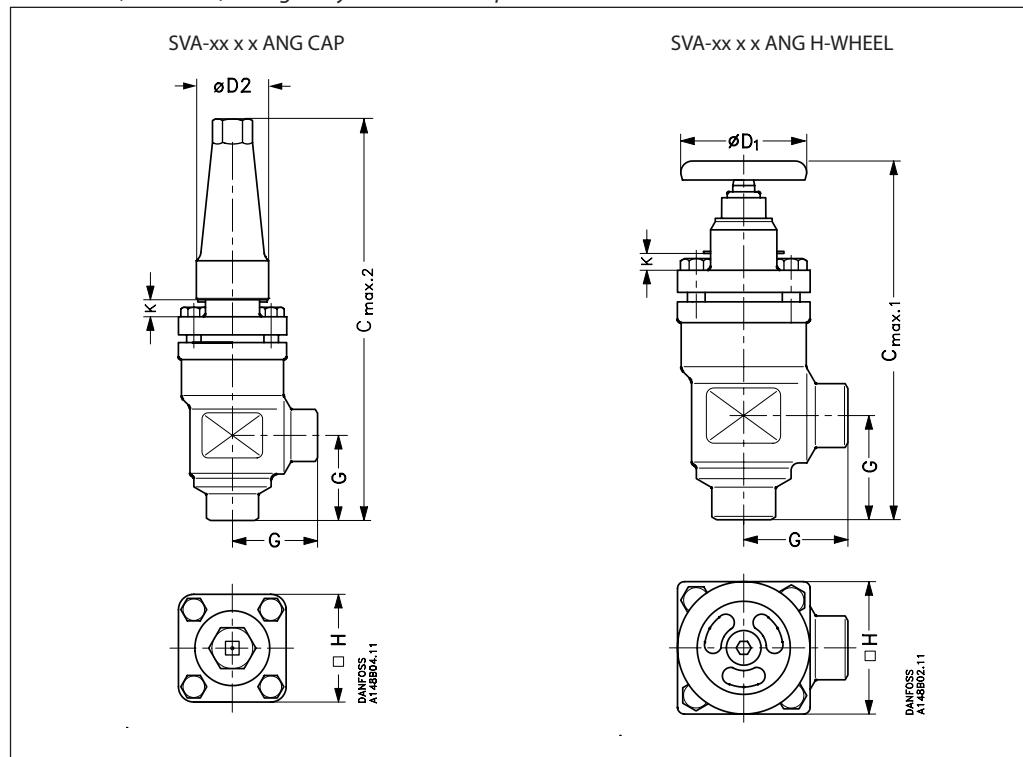
**SVA 6 - 10 in straight-way execution with cap (SVA 223)**


| Valve size |           | C           | B           | E          | G           | ØD         | □H         | Weight |
|------------|-----------|-------------|-------------|------------|-------------|------------|------------|--------|
| SVA 6      | mm<br>in. | 110<br>4.33 | 120<br>4.72 | 13<br>0.49 | 70<br>2.76  | 30<br>1.16 | 48<br>1.89 | 0.8 kg |
| SVA 10     | mm<br>in. | 145<br>5.71 | 155<br>6.10 | 20<br>0.79 | 120<br>4.72 | 38<br>1.50 | 60<br>2.36 | 2.0 kg |

Specified weights are approximate values only.

## Dimensions and weights

SVA 15 - 40 (½ - 1½ in.) in angleway version with cap / hand wheel



| Valve size                         | K          | C <sub>max.1</sub> | C <sub>max.2</sub> | G          | ØD <sub>1</sub> | ØD <sub>2</sub> | □H         | Weight           |
|------------------------------------|------------|--------------------|--------------------|------------|-----------------|-----------------|------------|------------------|
| <b>SVA-ST, SS</b>                  |            |                    |                    |            |                 |                 |            |                  |
| SVA 15 - 20 mm<br>SVA (½ - ¾) in.  | 4<br>0.16  | 178<br>7.00        | 189<br>7.44        | 45<br>1.77 | 60<br>2.36      | 38<br>1.5       | 60<br>2.36 | 1.4 kg<br>3.1 lb |
| SVA 25 - 40 mm<br>SVA (1 - 1½) in. | 12<br>0.47 | 234<br>9.21        | 268<br>10.55       | 55<br>2.17 | 80<br>3.15      | 50<br>1.97      | 70<br>2.76 | 2.4 kg<br>5.3 lb |

**SVA-ST, Socket weld**

|                                     |            |             |              |            |            |            |            |                  |
|-------------------------------------|------------|-------------|--------------|------------|------------|------------|------------|------------------|
| SVA 32 - 40 mm<br>SVA (1¼ - 1½) in. | 12<br>0.47 | 241<br>9.49 | 275<br>10.83 | 62<br>2.44 | 80<br>3.15 | 50<br>1.97 | 70<br>2.76 | 2.9 kg<br>6.4 lb |
|-------------------------------------|------------|-------------|--------------|------------|------------|------------|------------|------------------|

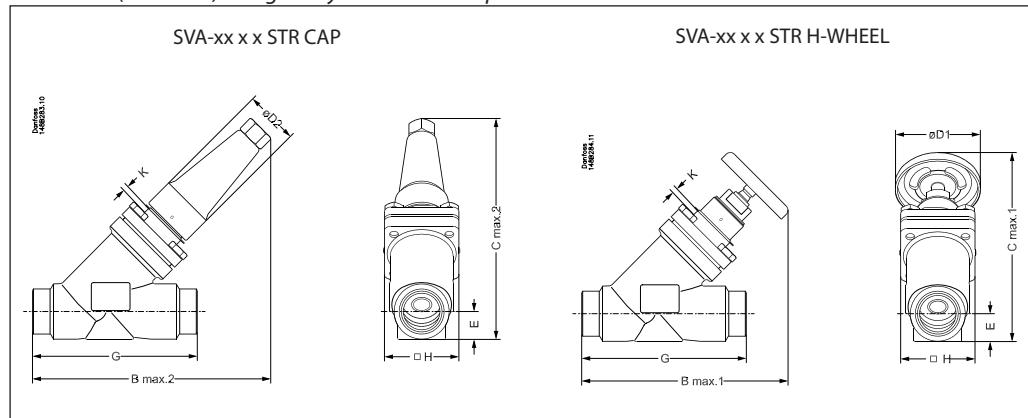
**SVA-HS**

|                                    |            |              |              |            |            |            |            |                  |
|------------------------------------|------------|--------------|--------------|------------|------------|------------|------------|------------------|
| SVA 15 - 20 mm<br>SVA (½ - ¾) in.  | 63<br>2.48 | 237<br>9.33  | 248<br>9.76  | 45<br>1.77 | 60<br>2.36 | 38<br>1.5  | 60<br>2.36 | 1.4 kg<br>3.1 lb |
| SVA 25 - 40 mm<br>SVA (1 - 1½) in. | 74<br>2.91 | 296<br>11.65 | 330<br>12.99 | 55<br>2.17 | 80<br>3.15 | 50<br>1.97 | 70<br>2.76 | 2.4 kg<br>5.3 lb |

**SVA-HS, Socket weld**

|                                     |            |              |              |            |            |            |            |                  |
|-------------------------------------|------------|--------------|--------------|------------|------------|------------|------------|------------------|
| SVA 32 - 40 mm<br>SVA (1¼ - 1½) in. | 74<br>2.91 | 303<br>11.93 | 337<br>13.27 | 62<br>2.44 | 80<br>3.15 | 50<br>1.97 | 70<br>2.76 | 2.9 kg<br>6.4 lb |
|-------------------------------------|------------|--------------|--------------|------------|------------|------------|------------|------------------|

Specified weights are approximate values only.

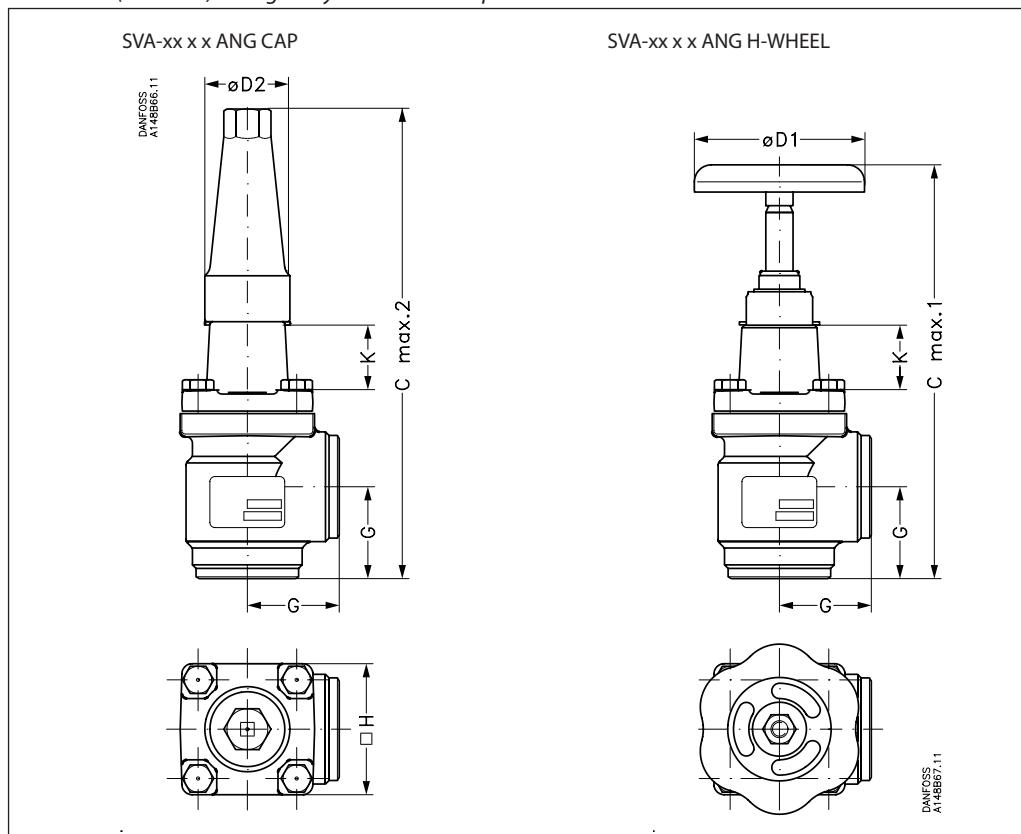
**Dimensions and weights**
*SVA 15 - 40 (½ - 1½ in.) straightway version with cap / hand wheel*


| Valve size                         | K          | C <sub>max.1</sub> | C <sub>max.2</sub> | B <sub>max.1</sub> | B <sub>max.2</sub> | E            | G           | ØD <sub>1</sub> | ØD <sub>2</sub> | H          | Weight           |
|------------------------------------|------------|--------------------|--------------------|--------------------|--------------------|--------------|-------------|-----------------|-----------------|------------|------------------|
| <b>SVA-ST, SS</b>                  |            |                    |                    |                    |                    |              |             |                 |                 |            |                  |
| SVA 15 - 20 mm<br>SVA (½ - ¾) in.  | 4<br>0.16  | 146<br>5.74        | 141<br>5.55        | 160<br>6.30        | 156<br>6.14        | 20<br>0.79   | 120<br>4.72 | 60<br>2.36      | 38<br>1.50      | 60<br>2.36 | 2.0 kg<br>4.4 lb |
| SVA 25 - 40 mm<br>SVA (1 - 1½) in. | 12<br>0.47 | 199<br>7.83        | 208<br>8.19        | 212<br>8.35        | 222<br>8.74        | 26<br>1.02   | 155<br>6.10 | 80<br>3.15      | 50<br>1.97      | 70<br>2.76 | 3.0 kg<br>6.6 lb |
| <b>SVA-ST, Socket weld</b>         |            |                    |                    |                    |                    |              |             |                 |                 |            |                  |
| SVA 32 mm<br>SVA (1¼) in.          | 12<br>0.47 | 200<br>7.87        | 209<br>8.23        | 212<br>8.35        | 222<br>8.74        | 27.4<br>1.08 | 155<br>6.10 | 80<br>3.15      | 50<br>1.97      | 70<br>2.76 | 3.0 kg<br>6.6 lb |
| SVA 40 mm<br>SVA (1½) in.          | 12<br>0.47 | 204<br>8.03        | 213<br>8.39        | 212<br>8.35        | 222<br>8.74        | 31.0<br>1.22 | 155<br>6.10 | 80<br>3.15      | 50<br>1.97      | 70<br>2.76 | 3.0 kg<br>6.6 lb |
| <b>SVA-HS</b>                      |            |                    |                    |                    |                    |              |             |                 |                 |            |                  |
| SVA 15 - 20 mm<br>SVA (½ - ¾) in.  | 63<br>2.48 | 188<br>7.40        | 184<br>7.24        | 202<br>7.95        | 198<br>7.80        | 20<br>0.79   | 120<br>4.72 | 60<br>2.36      | 38<br>1.50      | 60<br>2.36 | 2.0 kg<br>4.4 lb |
| SVA 25 - 40 mm<br>SVA (1 - 1½) in. | 74<br>2.91 | 243<br>9.57        | 252<br>9.92        | 256<br>10.08       | 265<br>10.43       | 26<br>1.02   | 155<br>6.10 | 80<br>3.15      | 50<br>1.97      | 70<br>2.76 | 3.0 kg<br>6.6 lb |
| <b>SVA-HS, Socket weld</b>         |            |                    |                    |                    |                    |              |             |                 |                 |            |                  |
| SVA 32 mm<br>SVA (1¼) in.          | 74<br>2.91 | 244<br>9.61        | 253<br>9.96        | 256<br>10.08       | 265<br>10.43       | 27.4<br>1.08 | 155<br>6.10 | 80<br>3.15      | 50<br>1.97      | 70<br>2.76 | 3.0 kg<br>6.6 lb |
| SVA 40 mm<br>SVA (1½) in.          | 74<br>2.91 | 248<br>9.76        | 257<br>10.12       | 256<br>10.08       | 265<br>10.43       | 31.0<br>1.22 | 155<br>6.10 | 80<br>3.15      | 50<br>1.97      | 70<br>2.76 | 3.0 kg<br>6.6 lb |

Specified weights are approximate values only.

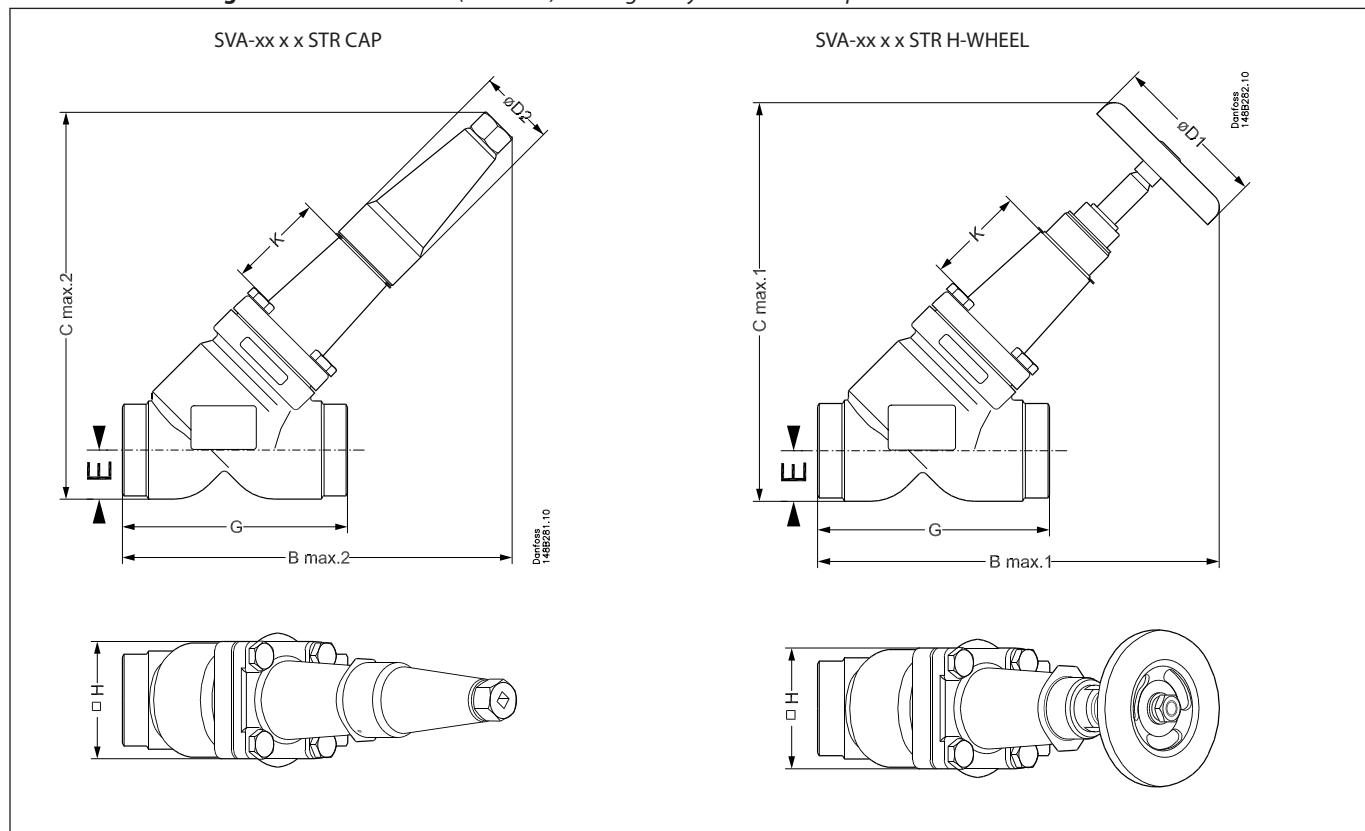
## Dimensions and weights

SVA 50 - 65 (2 - 2½ in.) in angleway version with cap / hand wheel



| Valve size                      | K          | C <sub>max.1</sub> | C <sub>max.2</sub> | G          | ØD <sub>1</sub> | ØD <sub>2</sub> | ØH         | Weight            |
|---------------------------------|------------|--------------------|--------------------|------------|-----------------|-----------------|------------|-------------------|
| <b>SVA-ST, SS</b>               |            |                    |                    |            |                 |                 |            |                   |
| SVA 50<br>SVA (2)<br>mm<br>in.  | 35<br>1.38 | 249<br>9.80        | 280<br>11.02       | 60<br>2.36 | 100<br>3.94     | 50<br>1.97      | 77<br>3.03 | 3.2 kg<br>7.1 lb  |
| SVA 65<br>SVA (2½)<br>mm<br>in. | 40<br>1.57 | 280<br>11.02       | 305<br>12.01       | 70<br>2.76 | 100<br>3.94     | 50<br>1.97      | 90<br>3.54 | 4.8 kg<br>10.6 lb |
| <b>SVA-ST, Socket weld</b>      |            |                    |                    |            |                 |                 |            |                   |
| SVA 50<br>SVA (2)<br>mm<br>in.  | 35<br>1.38 | 254<br>10.00       | 285<br>11.22       | 65<br>2.56 | 100<br>3.94     | 50<br>1.97      | 77<br>3.03 | 4.1 kg<br>9.0 lb  |
| <b>SVA-HS</b>                   |            |                    |                    |            |                 |                 |            |                   |
| SVA 50<br>SVA (2)<br>mm<br>in.  | 70<br>2.76 | 284<br>11.18       | 315<br>12.40       | 60<br>2.36 | 100<br>3.94     | 50<br>1.97      | 77<br>3.03 | 3.2 kg<br>7.1 lb  |
| SVA 65<br>SVA (2½)<br>mm<br>in. | 70<br>2.76 | 310<br>12.20       | 335<br>13.19       | 70<br>2.76 | 100<br>3.94     | 50<br>1.97      | 90<br>3.54 | 4.8 kg<br>10.6 lb |
| <b>SVA-HS, Socket weld</b>      |            |                    |                    |            |                 |                 |            |                   |
| SVA 50<br>SVA (2)<br>mm<br>in.  | 70<br>2.76 | 289<br>11.38       | 320<br>12.60       | 65<br>2.56 | 100<br>3.94     | 50<br>1.97      | 77<br>3.03 | 4.1 kg<br>9.0 lb  |

Specified weights are approximate values only.

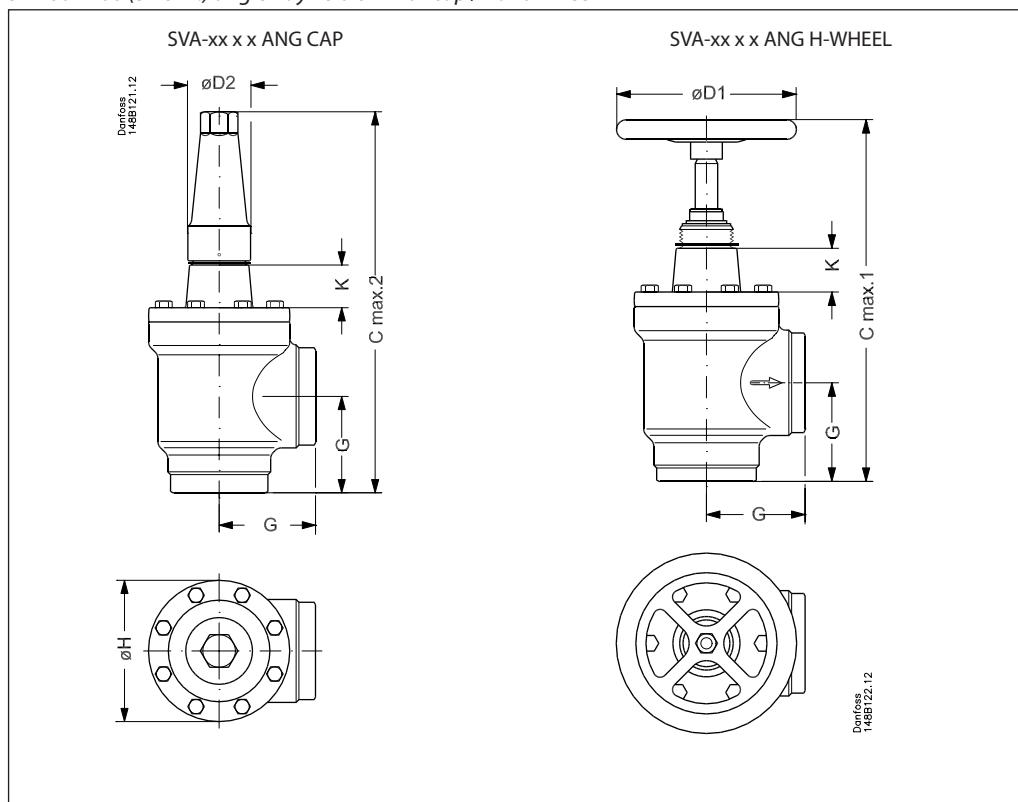
**Dimensions and weights**
*SVA 50 - 65 (2 - 2½ in.) in straightway version with cap / hand wheel*


| Valve size                 | K    | B <sub>max.1</sub> | B <sub>max.2</sub> | C <sub>max.1</sub> | C <sub>max.2</sub> | E    | G    | ØD <sub>1</sub> | ØD <sub>2</sub> | □H   | Weight  |
|----------------------------|------|--------------------|--------------------|--------------------|--------------------|------|------|-----------------|-----------------|------|---------|
| <b>SVA-ST, SS</b>          |      |                    |                    |                    |                    |      |      |                 |                 |      |         |
| SVA 50 mm                  | 35   | 234                | 234                | 232                | 232                | 32   | 148  | 100             | 50              | 77   | 4.2 kg  |
| SVA (2) in.                | 1.38 | 9.21               | 9.21               | 9.13               | 9.13               | 1.26 | 5.83 | 3.94            | 1.97            | 3.03 | 9.3 lb  |
| <b>SVA-ST, Socket weld</b> |      |                    |                    |                    |                    |      |      |                 |                 |      |         |
| SVA 50 mm                  | 35   | 241                | 241                | 236                | 236                | 37   | 162  | 100             | 50              | 77   | 5.1 kg  |
| SVA (2) in.                | 1.38 | 9.49               | 9.49               | 9.29               | 9.29               | 1.46 | 6.38 | 3.94            | 1.97            | 3.03 | 11.2 lb |
| <b>SVA-HS</b>              |      |                    |                    |                    |                    |      |      |                 |                 |      |         |
| SVA 50 mm                  | 70   | 259                | 259                | 257                | 257                | 32   | 148  | 100             | 50              | 77   | 4.2 kg  |
| SVA (2) in.                | 2.76 | 10.20              | 10.20              | 10.12              | 10.12              | 1.26 | 5.83 | 3.94            | 1.97            | 3.03 | 9.3 lb  |
| <b>SVA-HS, Socket weld</b> |      |                    |                    |                    |                    |      |      |                 |                 |      |         |
| SVA 50 mm                  | 70   | 266                | 266                | 261                | 261                | 37   | 62   | 100             | 50              | 77   | 5.1 kg  |
| SVA (2) in.                | 2.76 | 10.47              | 10.47              | 10.28              | 10.28              | 1.26 | 6.38 | 3.94            | 1.97            | 3.03 | 11.2 lb |

Specified weights are approximate values only.

## Dimensions and weights

SVA 80 - 200 (3 - 8 in.) angleway version with cap / hand wheel



| Valve size | K | C <sub>max.1</sub> | C <sub>max.2</sub> | G | ØD <sub>1</sub> | ØD <sub>2</sub> | ØH | Weight |
|------------|---|--------------------|--------------------|---|-----------------|-----------------|----|--------|
|------------|---|--------------------|--------------------|---|-----------------|-----------------|----|--------|

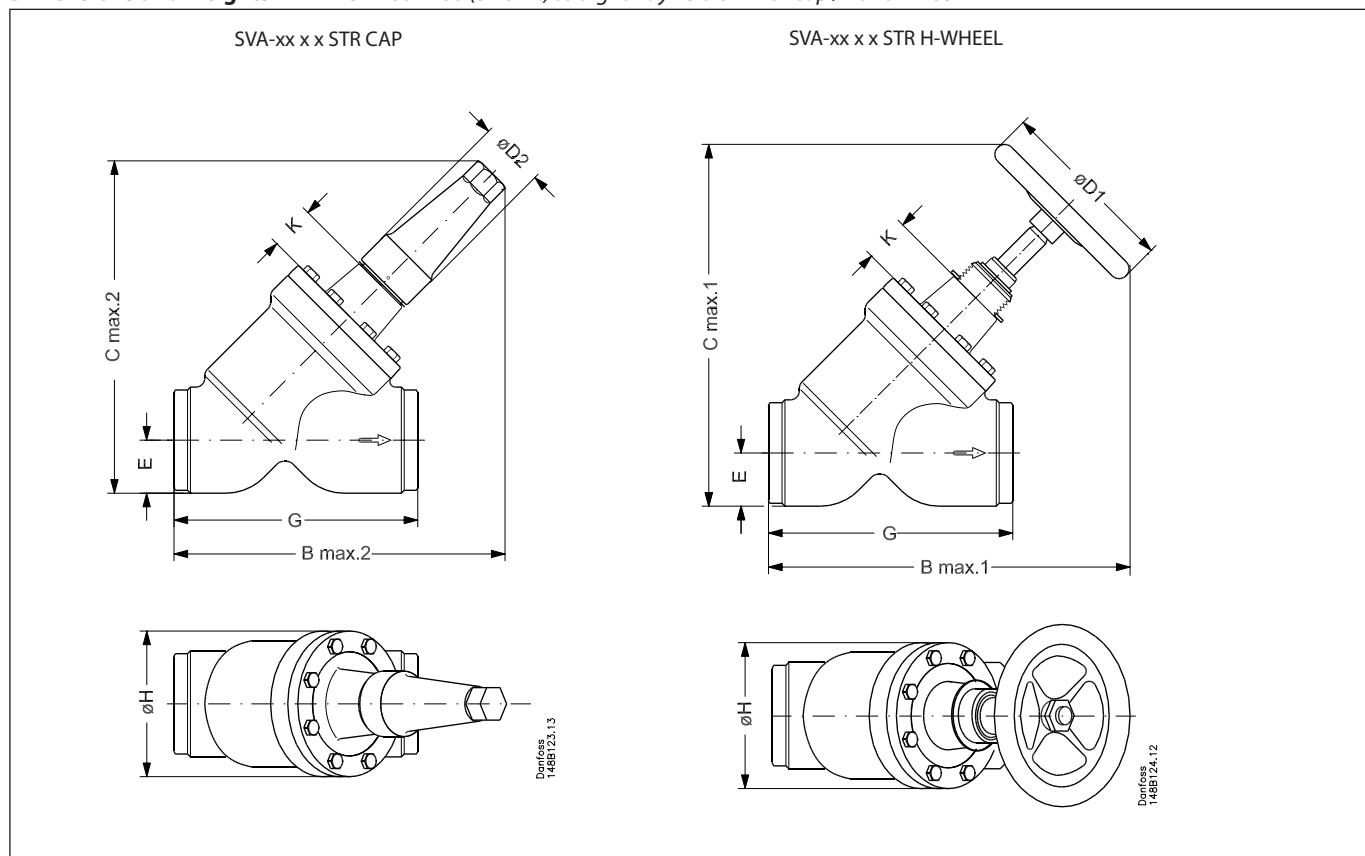
## SVA-ST, SS

|         |     |      |       |       |      |       |      |       |          |
|---------|-----|------|-------|-------|------|-------|------|-------|----------|
| SVA 80  | mm  | 41   | 338   | 353   | 90   | 200   | 58   | 129   | 9.2 kg   |
| SVA (3) | in. | 1.61 | 13.31 | 13.90 | 3.54 | 7.87  | 2.28 | 5.08  | 20.3 lb  |
| SVA 100 | mm  | 43   | 382   | 388   | 106  | 250   | 58   | 156   | 14.8 kg  |
| SVA (4) | in. | 1.69 | 15.04 | 15.28 | 4.17 | 9.84  | 2.28 | 6.14  | 32.6 lb  |
| SVA 125 | mm  | 90   | 517   | 533   | 128  | 315   | 74   | 193   | 28.1 kg  |
| SVA (5) | in. | 3.54 | 20.35 | 20.98 | 5.04 | 12.40 | 2.91 | 7.60  | 61.9 lb  |
| SVA 150 | mm  | 90   | 564   | 568   | 145  | 315   | 74   | 219   | 39.7 kg  |
| SVA (6) | in. | 3.54 | 22.20 | 22.36 | 5.71 | 12.40 | 2.91 | 8.62  | 87.5 lb  |
| SVA 200 | mm  | 90   | 675   | 678   | 180  | 400   | 86   | 276   | 79.5 kg  |
| SVA (8) | in. | 3.54 | 26.57 | 26.69 | 7.09 | 15.75 | 3.39 | 10.87 | 175.3 lb |

## SVA-HS

|         |     |      |       |       |      |       |      |       |          |
|---------|-----|------|-------|-------|------|-------|------|-------|----------|
| SVA 80  | mm  | 76   | 373   | 388   | 90   | 200   | 58   | 129   | 9.7 kg   |
| SVA (3) | in. | 3.00 | 14.69 | 15.28 | 3.54 | 7.87  | 2.28 | 5.08  | 21.4 lb  |
| SVA 100 | mm  | 90   | 432   | 437   | 106  | 250   | 58   | 156   | 15.3 kg  |
| SVA (4) | in. | 3.54 | 17.00 | 17.20 | 4.17 | 9.84  | 2.28 | 6.14  | 33.7 lb  |
| SVA 125 | mm  | 90   | 517   | 533   | 128  | 315   | 74   | 193   | 28.1 kg  |
| SVA (5) | in. | 3.54 | 20.35 | 20.98 | 5.04 | 12.40 | 2.91 | 7.60  | 61.9 lb  |
| SVA 150 | mm  | 90   | 564   | 568   | 145  | 315   | 74   | 219   | 39.7 kg  |
| SVA (6) | in. | 3.54 | 22.20 | 22.36 | 5.71 | 12.40 | 2.91 | 8.62  | 87.5 lb  |
| SVA 200 | mm  | 90   | 675   | 678   | 180  | 400   | 86   | 276   | 79.5 kg  |
| SVA (8) | in. | 3.54 | 26.57 | 26.69 | 7.09 | 15.75 | 3.39 | 10.87 | 175.3 lb |

Specified weights are approximate values only.

**Dimensions and weights**
*SVA 80 - 200 (3 - 8 in.) straightway version with cap / hand wheel*


| Valve size         | K         | B <sub>max.1</sub> | B <sub>max.2</sub> | C <sub>max.1</sub> | C <sub>max.2</sub> | E            | G           | φD <sub>1</sub> | φD <sub>2</sub> | φH         | Weight            |
|--------------------|-----------|--------------------|--------------------|--------------------|--------------------|--------------|-------------|-----------------|-----------------|------------|-------------------|
| <b>SVA-ST</b>      |           |                    |                    |                    |                    |              |             |                 |                 |            |                   |
| SVA 80<br>SVA (3)  | mm<br>in. | 41<br>1.61         | 340<br>13.38       | 296<br>11.65       | 342<br>13.46       | 298<br>11.73 | 48<br>1.89  | 216<br>8.50     | 200<br>7.87     | 58<br>2.28 | 129<br>5.08       |
| SVA 100<br>SVA (4) | mm<br>in. | 43<br>1.69         | 400<br>15.75       | 331<br>13.03       | 408<br>16.06       | 339<br>13.35 | 60<br>2.36  | 264<br>10.39    | 250<br>9.84     | 58<br>2.28 | 156<br>6.14       |
| SVA 125<br>SVA (5) | mm<br>in. | 90<br>3.54         | 526<br>20.71       | 444<br>17.48       | 538<br>21.18       | 456<br>17.95 | 74<br>2.91  | 322<br>12.68    | 315<br>12.40    | 74<br>2.91 | 193<br>7.60       |
| SVA 150<br>SVA (6) | mm<br>in. | 90<br>3.54         | 572<br>22.52       | 483<br>19.02       | 594<br>23.39       | 505<br>19.88 | 91<br>3.58  | 370<br>14.57    | 315<br>12.40    | 74<br>2.91 | 219<br>8.62       |
| SVA 200<br>SVA (8) | mm<br>in. | 90<br>3.54         | 692<br>27.24       | 579<br>22.80       | 726<br>28.58       | 613<br>24.13 | 117<br>4.61 | 464<br>18.27    | 400<br>15.75    | 86<br>3.39 | 111.5 kg<br>10.87 |
| <b>SVA-HS</b>      |           |                    |                    |                    |                    |              |             |                 |                 |            |                   |
| SVA 80<br>SVA (3)  | mm<br>in. | 76<br>3.00         | 365<br>14.37       | 321<br>12.64       | 367<br>14.45       | 322<br>12.72 | 48<br>1.89  | 216<br>8.50     | 200<br>7.87     | 58<br>2.28 | 129<br>5.08       |
| SVA 100<br>SVA (4) | mm<br>in. | 90<br>3.54         | 435<br>17.13       | 367<br>14.45       | 443<br>17.44       | 375<br>14.76 | 60<br>2.36  | 264<br>10.39    | 250<br>9.84     | 58<br>2.28 | 156<br>6.14       |
| SVA 125<br>SVA (5) | mm<br>in. | 90<br>3.54         | 526<br>20.71       | 444<br>17.48       | 538<br>21.18       | 456<br>17.95 | 74<br>2.91  | 322<br>12.68    | 315<br>12.40    | 74<br>2.91 | 193<br>7.60       |
| SVA 150<br>SVA (6) | mm<br>in. | 90<br>3.54         | 572<br>22.52       | 483<br>19.02       | 594<br>23.39       | 505<br>19.88 | 91<br>3.58  | 370<br>14.57    | 315<br>12.40    | 74<br>2.91 | 219<br>8.62       |
| SVA 200<br>SVA (8) | mm<br>in. | 90<br>3.54         | 692<br>27.24       | 579<br>22.80       | 726<br>28.58       | 613<br>24.13 | 117<br>4.61 | 464<br>18.27    | 400<br>15.75    | 86<br>3.39 | 111.5 kg<br>10.87 |

Specified weights are approximate values only.

**Ordering**

Please note that the type codes only serve to identify the valves, some of which may not form part of the standard product range. For further information please contact your local Danfoss Sales Company.

*Type codes*

| Valve type   | SVA                          | Stop valve   | Available connections |     |     |   |
|--|------------------------------|--|-----------------------|-----|-----|---|
| Nominal size in mm<br>(valve size measured on the connection diameter) |                              |  | A/D                   | SOC | FPT | T |
|  | <b>6</b>                     | DN 6 (1/4)   | x                     |     |     | x |
|  | <b>10</b>                    | DN 10 (5/8)  | x                     |     |     | x |
|  | <b>15</b>                    | DN 15 (1/2)  | x                     | x   | x   |   |
|  | <b>20</b>                    | DN 20 (3/4)  | x                     | x   | x   |   |
|  | <b>25</b>                    | DN 25 (1)  | x                     | x   | x   |   |
|  | <b>32</b>                    | DN 32 (1 1/4)  | x                     | x   | x   |   |
|  | <b>40</b>                    | DN 40 (1 1/2)  | x                     | x   |     |   |
|  | <b>50</b>                    | DN 50 (2)  | x                     | x   |     |   |
|  | <b>65</b>                    | DN 65 (2 1/2)  | x                     |     |     |   |
|  | <b>80</b>                    | DN 80 (3)  | x                     |     |     |   |
|  | <b>100</b>                   | DN 100 (4)   | x                     |     |     |   |
|  | <b>125</b>                   | DN 125 (5)   | x                     |     |     |   |
|  | <b>150</b>                   | DN 150 (6)   | x                     |     |     |   |
|  | <b>200</b>                   | DN 200 (8)   | x                     |     |     |   |
| Connections  | <b>A</b>                     | Butt-weld connection: ANSI B 36.10 schedule 80, DN 15 - 40 (1/2 - 1 1/2 in.) |                       |     |     |   |
|  | <b>D</b>                     | Butt-weld connection: ANSI B 36.10 schedule 40, DN 50 - 200 (2 - 8 in.)      |                       |     |     |   |
|  | <b>SOC</b>                   | Butt-weld connection: DIN 2448   |                       |     |     |   |
|  | <b>FPT</b>                   | Socket weld: ANSI B 16.11  |                       |     |     |   |
|  | <b>T</b>                     | Female Pipe Thread NPT: ANSI/ASME B 1.20.1                                   |                       |     |     |   |
|  |                              | Outside threaded connections ISO 228/1 Pipe thread                           |                       |     |     |   |
| Valve housing  | <b>ANG</b><br><b>STR</b>     | Angle flow<br>Straight flow  |                       |     |     |   |
| Other equipment  | <b>H-WHEEL</b><br><b>CAP</b> | Hand wheel<br>Cap  |                       |     |     |   |

**Important!**

Where products need to be certified according to specific certification societies or where higher pressures are required, the relevant information should be included at the time of order.

**Ordering  
(cont.)**

Example:  
SVA 6 ANSI angleway with cap =  
**2412+357**

**Important!**

Where products need to be certified according to specific certification societies or where higher pressures are required, the relevant information should be included at the time of order.

D = Butt-weld DIN  
A = Butt-weld ANSI

The table below is used to identify the valve required.

| Angleway |      |             |
|----------|------|-------------|
| Size     | Type | Code number |
| mm       | in.  |             |

**DIN**

|    |     |                      |                 |
|----|-----|----------------------|-----------------|
| 6  | 1/4 | SVA 6 D ANG H-WHEEL  | <b>2412+308</b> |
| 6  | 1/4 | SVA 6 D ANG CAP      | <b>2412+315</b> |
| 10 | 3/8 | SVA 10 D ANG H-WHEEL | <b>2412+309</b> |
| 10 | 3/8 | SVA 10 D ANG CAP     | <b>2412+316</b> |

**ANSI**

|    |     |                      |                 |
|----|-----|----------------------|-----------------|
| 6  | 1/4 | SVA 6 A ANG H-WHEEL  | <b>2412+350</b> |
| 6  | 1/4 | SVA 6 A ANG CAP      | <b>2412+357</b> |
| 10 | 3/8 | SVA 10 A ANG H-WHEEL | <b>2412+351</b> |
| 10 | 3/8 | SVA 10 A ANG CAP     | <b>2412+358</b> |

| Straightway |      |             |
|-------------|------|-------------|
| Size        | Type | Code number |
| mm          | in.  |             |

**DIN**

|    |     |                      |                 |
|----|-----|----------------------|-----------------|
| 6  | 1/4 | SVA 6 D STR H-WHEEL  | <b>2412+329</b> |
| 6  | 1/4 | SVA 6 D STR CAP      | <b>2412+336</b> |
| 10 | 3/8 | SVA 10 D STR H-WHEEL | <b>2412+330</b> |
| 10 | 3/8 | SVA 10 D STR CAP     | <b>2412+337</b> |

**ANSI**

|    |     |                      |                 |
|----|-----|----------------------|-----------------|
| 6  | 1/4 | SVA 6 A STR H-WHEEL  | <b>2412+371</b> |
| 6  | 1/4 | SVA 6 A STR CAP      | <b>2412+378</b> |
| 10 | 3/8 | SVA 10 A STR H-WHEEL | <b>2412+372</b> |
| 10 | 3/8 | SVA 10 A STR CAP     | <b>2412+379</b> |

**SVA 6T and SVA-ST 10-15 T**

| Type                                 | Code number     |
|--------------------------------------|-----------------|
| SVA-ST 10-15 T STOPVALVE STR H-WHEEL | <b>148B3969</b> |
| SVA-ST 10-15 T STOPVALVE STR CAP     | <b>148B3970</b> |
| SVA-ST 10-15 T STOPVALVE ANG H-WHEEL | <b>148B3818</b> |
| SVA-ST 10-15 T STOPVALVE ANG CAP     | <b>148B3819</b> |
| SVA-ST 6 T STOPVALVE ANG H-WHEEL     | <b>2413+123</b> |
| SVA-ST 6 T STOPVALVE ANG CAP         | <b>2413+125</b> |

**Accessories**
**6T and 10-15T Nipple Kit solution**

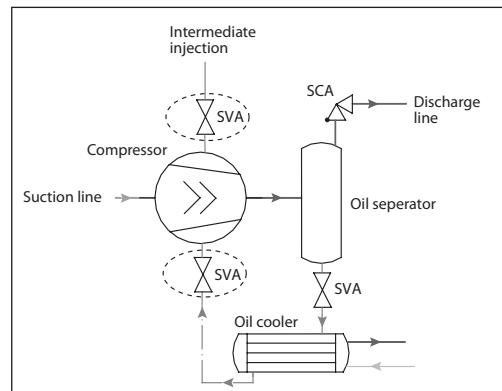
| Code no.        |  |
|-----------------|--|
| <b>148B4244</b> | ACCESSORY WELD.NIPPLE DN10 D + UNION NUT |
| <b>148B4245</b> | ACCESSORY WELD.NIPPLE DN6 A + UNION NUT  |
| <b>148B4246</b> | ACCESSORY WELD.NIPPLE DN10 A + UNION NUT |
| <b>148B4247</b> | ACCESSORY WELD.NIPPLE DN15 A + UNION NUT |
| <b>148B4184</b> | ACCESSORY WELD.NIPPLE DN6 D + UNION NUT  |
| <b>148B4185</b> | ACCESSORY WELD.NIPPLE DN15 D + UNION NUT |

DN6 nipples are used with SVA 6 T.

DN10 and DN15 nipples are used with SVA-ST 10-15 T.

**Lock washers for the stop valves, subjected to extreme vibrations/pulsations**

| Code no.        |  |
|-----------------|--|
| <b>148B4238</b> | I-PACK(10) ACC.LOCK WASHER SVA 15-20   |
| <b>148B4239</b> | I-PACK(10) ACC.LOCK WASHER SVA 25-40   |
| <b>148B4240</b> | I-PACK(10) ACC.LOCK WASHER SVA 50-65   |
| <b>148B4241</b> | I-PACK(10) ACC.LOCK WASHER SVA 80-100  |
| <b>148B4242</b> | I-PACK(10) ACC.LOCK WASHER SVA 125-150 |
| <b>148B4243</b> | I-PACK(10) ACC.LOCK WASHER SVA 200     |



Indication of a pipe line, where stop valves with lock washers are recommended.

**Ordering - SVA-ST**

Example:  
SVA-ST 20 DIN angleway with hand wheel = **148B3441**

**Important!**

Where products need to be certified according to specific certification societies or where higher pressures are required, the relevant information should be included at the time of order.

The table below is used to identify the valve required.

| Standard version |      |     |      |        |
|------------------|------|-----|------|--------|
| Angleway         |      |     |      |        |
| Size             | Type | MWP | Code | number |
| mm               | in.  | bar | psi  |        |

**DIN**

|     |       |                          |    |     |                 |
|-----|-------|--------------------------|----|-----|-----------------|
| 15  | 1/2   | SVA-ST 15 D ANG H-WHEEL  | 40 | 580 | <b>148B3361</b> |
| 15  | 1/2   | SVA-ST 15 D ANG CAP      | 40 | 580 | <b>148B3362</b> |
| 20  | 3/4   | SVA-ST 20 D ANG H-WHEEL  | 40 | 580 | <b>148B3441</b> |
| 20  | 3/4   | SVA-ST 20 D ANG CAP      | 40 | 580 | <b>148B3442</b> |
| 25  | 1     | SVA-ST 25 D ANG H-WHEEL  | 40 | 580 | <b>148B3521</b> |
| 25  | 1     | SVA-ST 25 D ANG CAP      | 40 | 580 | <b>148B3522</b> |
| 32  | 1 1/4 | SVA-ST 32 D ANG H-WHEEL  | 40 | 580 | <b>148B3601</b> |
| 32  | 1 1/4 | SVA-ST 32 D ANG CAP      | 40 | 580 | <b>148B3602</b> |
| 40  | 1 1/2 | SVA-ST 40 D ANG H-WHEEL  | 40 | 580 | <b>148B3681</b> |
| 40  | 1 1/2 | SVA-ST 40 D ANG CAP      | 40 | 580 | <b>148B3682</b> |
| 50  | 2     | SVA-ST 50 D ANG H-WHEEL  | 40 | 580 | <b>148B3032</b> |
| 50  | 2     | SVA-ST 50 D ANG CAP      | 40 | 580 | <b>148B3033</b> |
| 65  | 2 1/2 | SVA-ST 65 D ANG H-WHEEL  | 40 | 580 | <b>148B3044</b> |
| 65  | 2 1/2 | SVA-ST 65 D ANG CAP      | 40 | 580 | <b>148B3045</b> |
| 80  | 3     | SVA-ST 80 D ANG H-WHEEL  | 40 | 580 | <b>148B3061</b> |
| 80  | 3     | SVA-ST 80 D ANG CAP      | 40 | 580 | <b>148B3062</b> |
| 100 | 4     | SVA-ST 100 D ANG H-WHEEL | 40 | 580 | <b>148B3101</b> |
| 100 | 4     | SVA-ST 100 D ANG CAP     | 40 | 580 | <b>148B3102</b> |
| 125 | 5     | SVA-ST 125 D ANG H-WHEEL | 40 | 580 | <b>148B3141</b> |
| 125 | 5     | SVA-ST 125 D ANG CAP     | 40 | 580 | <b>148B3142</b> |
| 150 | 6     | SVA-ST 150 D ANG H-WHEEL | 40 | 580 | <b>148B3181</b> |
| 150 | 6     | SVA-ST 150 D ANG CAP     | 40 | 580 | <b>148B3182</b> |
| 200 | 8     | SVA-ST 200 D ANG H-WHEEL | 40 | 580 | <b>148B3221</b> |
| 200 | 8     | SVA-ST 200 D ANG CAP     | 40 | 580 | <b>148B3222</b> |

**ANSI**

|     |       |                          |    |     |                 |
|-----|-------|--------------------------|----|-----|-----------------|
| 15  | 1/2   | SVA-ST 15 A ANG H-WHEEL  | 40 | 580 | <b>148B3371</b> |
| 15  | 1/2   | SVA-ST 15 A ANG CAP      | 40 | 580 | <b>148B3372</b> |
| 20  | 3/4   | SVA-ST 20 A ANG H-WHEEL  | 40 | 580 | <b>148B3451</b> |
| 20  | 3/4   | SVA-ST 20 A ANG CAP      | 40 | 580 | <b>148B3452</b> |
| 25  | 1     | SVA-ST 25 A ANG H-WHEEL  | 40 | 580 | <b>148B3531</b> |
| 25  | 1     | SVA-ST 25 A ANG CAP      | 40 | 580 | <b>148B3532</b> |
| 32  | 1 1/4 | SVA-ST 32 A ANG H-WHEEL  | 40 | 580 | <b>148B3611</b> |
| 32  | 1 1/4 | SVA-ST 32 A ANG CAP      | 40 | 580 | <b>148B3612</b> |
| 40  | 1 1/2 | SVA-ST 40 A ANG H-WHEEL  | 40 | 580 | <b>148B3691</b> |
| 40  | 1 1/2 | SVA-ST 40 A ANG CAP      | 40 | 580 | <b>148B3692</b> |
| 50  | 2     | SVA-ST 50 A ANG H-WHEEL  | 40 | 580 | <b>148B3034</b> |
| 50  | 2     | SVA-ST 50 A ANG CAP      | 40 | 580 | <b>148B3035</b> |
| 65  | 2 1/2 | SVA-ST 65 A ANG H-WHEEL  | 40 | 580 | <b>148B3046</b> |
| 65  | 2 1/2 | SVA-ST 65 A ANG CAP      | 40 | 580 | <b>148B3047</b> |
| 80  | 3     | SVA-ST 80 A ANG H-WHEEL  | 40 | 580 | <b>148B3071</b> |
| 80  | 3     | SVA-ST 80 A ANG CAP      | 40 | 580 | <b>148B3072</b> |
| 100 | 4     | SVA-ST 100 A ANG H-WHEEL | 40 | 580 | <b>148B3111</b> |
| 100 | 4     | SVA-ST 100 A ANG CAP     | 40 | 580 | <b>148B3112</b> |
| 125 | 5     | SVA-ST 125 A ANG H-WHEEL | 40 | 580 | <b>148B3151</b> |
| 125 | 5     | SVA-ST 125 A ANG CAP     | 40 | 580 | <b>148B3152</b> |
| 150 | 6     | SVA-ST 150 A ANG H-WHEEL | 40 | 580 | <b>148B3191</b> |
| 150 | 6     | SVA-ST 150 A ANG CAP     | 40 | 580 | <b>148B3192</b> |
| 200 | 8     | SVA-ST 200 A ANG H-WHEEL | 40 | 580 | <b>148B3231</b> |
| 200 | 8     | SVA-ST 200 A ANG CAP     | 40 | 580 | <b>148B3232</b> |

**SOC**

|    |       |                           |    |     |                 |
|----|-------|---------------------------|----|-----|-----------------|
| 15 | 1/2   | SVA-ST 15 SOC ANG H-WHEEL | 40 | 580 | <b>148B3381</b> |
| 15 | 1/2   | SVA-ST 15 SOC ANG CAP     | 40 | 580 | <b>148B3382</b> |
| 20 | 3/4   | SVA-ST 20 SOC ANG H-WHEEL | 40 | 580 | <b>148B3461</b> |
| 20 | 3/4   | SVA-ST 20 SOC ANG CAP     | 40 | 580 | <b>148B3462</b> |
| 25 | 1     | SVA-ST 25 SOC ANG H-WHEEL | 40 | 580 | <b>148B3541</b> |
| 25 | 1     | SVA-ST 25 SOC ANG CAP     | 40 | 580 | <b>148B3542</b> |
| 32 | 1 1/4 | SVA-ST 32 SOC ANG H-WHEEL | 40 | 580 | <b>148B3621</b> |
| 32 | 1 1/4 | SVA-ST 32 SOC ANG CAP     | 40 | 580 | <b>148B3622</b> |
| 40 | 1 1/2 | SVA-ST 40 SOC ANG H-WHEEL | 40 | 580 | <b>148B3701</b> |
| 40 | 1 1/2 | SVA-ST 40 SOC ANG CAP     | 40 | 580 | <b>148B3702</b> |
| 50 | 2     | SVA-ST 50 SOC ANG H-WHEEL | 40 | 580 | <b>148B3036</b> |
| 50 | 2     | SVA-ST 50 SOC ANG CAP     | 40 | 580 | <b>148B3037</b> |

**FPT**

|    |       |                           |    |     |                 |
|----|-------|---------------------------|----|-----|-----------------|
| 15 | 1/2   | SVA-ST 15 FPT ANG H-WHEEL | 40 | 580 | <b>148B3391</b> |
| 15 | 1/2   | SVA-ST 15 FPT ANG CAP     | 40 | 580 | <b>148B3392</b> |
| 20 | 3/4   | SVA-ST 20 FPT ANG H-WHEEL | 40 | 580 | <b>148B3471</b> |
| 20 | 3/4   | SVA-ST 20 FPT ANG CAP     | 40 | 580 | <b>148B3472</b> |
| 25 | 1     | SVA-ST 25 FPT ANG H-WHEEL | 40 | 580 | <b>148B3551</b> |
| 25 | 1     | SVA-ST 25 FPT ANG CAP     | 40 | 580 | <b>148B3552</b> |
| 32 | 1 1/4 | SVA-ST 32 FPT ANG H-WHEEL | 40 | 580 | <b>148B3631</b> |
| 32 | 1 1/4 | SVA-ST 32 FPT ANG CAP     | 40 | 580 | <b>148B3632</b> |
| 32 | 1 1/4 | SVA-ST 32 FPT ANG H-WHEEL | 40 | 580 | <b>148B3633</b> |

- D = Butt-weld DIN
- A = Butt-weld ANSI
- SOC = Socket welding
- FPT = Inside pipe thread
- ANG = Angle-way
- STR = Straight-way
- CAP = Cap
- H-WHEEL = Hand wheel

| Standard version |      |     |      |        |
|------------------|------|-----|------|--------|
| Straightway      |      |     |      |        |
| Size             | Type | MWP | Code | number |
| mm               | in.  | bar | psi  |        |

**DIN**

|     |       |                          |    |     |                 |
|-----|-------|--------------------------|----|-----|-----------------|
| 15  | 1/2   | SVA-ST 15 D STR H-WHEEL  | 40 | 580 | <b>148B3401</b> |
| 15  | 1/2   | SVA-ST 15 D STR CAP      | 40 | 580 | <b>148B3402</b> |
| 20  | 3/4   | SVA-ST 20 D STR H-WHEEL  | 40 | 580 | <b>148B3481</b> |
| 20  | 3/4   | SVA-ST 20 D STR CAP      | 40 | 580 | <b>148B3482</b> |
| 25  | 1     | SVA-ST 25 D STR H-WHEEL  | 40 | 580 | <b>148B3561</b> |
| 25  | 1     | SVA-ST 25 D STR CAP      | 40 | 580 | <b>148B3562</b> |
| 32  | 1 1/4 | SVA-ST 32 D STR H-WHEEL  | 40 | 580 | <b>148B3641</b> |
| 32  | 1 1/4 | SVA-ST 32 D STR CAP      | 40 | 580 | <b>148B3642</b> |
| 40  | 1 1/2 | SVA-ST 40 D STR H-WHEEL  | 40 | 580 | <b>148B3711</b> |
| 40  | 1 1/2 | SVA-ST 40 D STR CAP      | 40 | 580 | <b>148B3712</b> |
| 50  | 2     | SVA-ST 50 D STR H-WHEEL  | 40 | 580 | <b>148B3038</b> |
| 50  | 2     | SVA-ST 50 D STR CAP      | 40 | 580 | <b>148B3039</b> |
| 65  | 2 1/2 | SVA-ST 65 D STR H-WHEEL  | 40 | 580 | <b>148B3050</b> |
| 65  | 2 1/2 | SVA-ST 65 D STR CAP      | 40 | 580 | <b>148B3051</b> |
| 80  | 3     | SVA-ST 80 D STR H-WHEEL  | 40 | 580 | <b>148B3081</b> |
| 80  | 3     | SVA-ST 80 D STR CAP      | 40 | 580 | <b>148B3082</b> |
| 100 | 4     | SVA-ST 100 D STR H-WHEEL | 40 | 580 | <b>148B3121</b> |
| 100 | 4     | SVA-ST 100 D STR CAP     | 40 | 580 | <b>148B3122</b> |
| 125 | 5     | SVA-ST 125 D STR H-WHEEL | 40 | 580 | <b>148B3161</b> |
| 125 | 5     | SVA-ST 125 D STR CAP     | 40 | 580 | <b>148B3162</b> |
| 150 | 6     | SVA-ST 150 D STR H-WHEEL | 40 | 580 | <b>148B3201</b> |
| 150 | 6     | SVA-ST 150 D STR CAP     | 40 | 580 | <b>148B3202</b> |
| 200 | 8     | SVA-ST 200 D STR H-WHEEL | 40 | 580 | <b>148B3241</b> |
| 200 | 8     | SVA-ST 200 D STR CAP     | 40 | 580 | <b>148B3242</b> |

**ANSI**

|     |       |                          |    |     |                 |
|-----|-------|--------------------------|----|-----|-----------------|
| 15  | 1/2   | SVA-ST 15 A STR H-WHEEL  | 40 | 580 | <b>148B3411</b> |
| 15  | 1/2   | SVA-ST 15 A STR CAP      | 40 | 580 | <b>148B3412</b> |
| 20  | 3/4   | SVA-ST 20 A STR H-WHEEL  | 40 | 580 | <b>148B3491</b> |
| 20  | 3/4   | SVA-ST 20 A STR CAP      | 40 | 580 | <b>148B3492</b> |
| 25  | 1     | SVA-ST 25 A STR H-WHEEL  | 40 | 580 | <b>148B3571</b> |
| 25  | 1     | SVA-ST 25 A STR CAP      | 40 | 580 | <b>148B3572</b> |
| 32  | 1 1/4 | SVA-ST 32 A STR H-WHEEL  | 40 | 580 | <b>148B3651</b> |
| 32  | 1 1/4 | SVA-ST 32 A STR CAP      | 40 | 580 | <b>148B3652</b> |
| 40  | 1 1/2 | SVA-ST 40 A STR H-WHEEL  | 40 | 580 | <b>148B3721</b> |
| 40  | 1 1/2 | SVA-ST 40 A STR CAP      | 40 | 580 | <b>148B3722</b> |
| 50  | 2     | SVA-ST 50 A STR H-WHEEL  | 40 | 580 | <b>148B3040</b> |
| 50  | 2     | SVA-ST 50 A STR CAP      | 40 | 580 | <b>148B3041</b> |
| 65  | 2 1/2 | SVA-ST 65 A STR H-WHEEL  | 40 | 580 | <b>148B3052</b> |
| 65  | 2 1/2 | SVA-ST 65 A STR CAP      | 40 | 580 | <b>148B3053</b> |
| 80  | 3     | SVA-ST 80 A STR H-WHEEL  | 40 | 580 | <b>148B3091</b> |
| 80  | 3     | SVA-ST 80 A STR CAP      | 40 | 580 | <b>148B3092</b> |
| 100 | 4     | SVA-ST 100 A STR H-WHEEL | 40 | 580 | <b>148B3131</b> |
| 100 | 4     | SVA-ST 100 A STR CAP     | 40 | 580 | <b>148B3132</b> |
| 125 | 5     | SVA-ST 125 A STR H-WHEEL | 40 | 580 | <b>148B3171</b> |
| 125 | 5     | SVA-ST 125 A STR CAP     | 40 | 580 | <b>148B3172</b> |
| 150 | 6     | SVA-ST 150 A STR H-WHEEL | 40 | 580 | <b>148B3211</b> |
| 150 | 6     | SVA-ST 150 A STR CAP     | 40 | 580 | <b>148B3212</b> |
| 200 | 8     | SVA-ST 200 A STR H-WHEEL | 40 | 580 | <b>148B3251</b> |
| 200 | 8     | SVA-ST 200 A STR CAP     | 40 | 580 | <b>148B3252</b> |

**SOC**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 15 | 1/2 | SVA-ST 15 SOC STR H-WHEEL | 40 | 580 | **148B3421** |


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**Ordering - SVA-SS**

Example:  
SVA-SS 32 DIN angleway with hand wheel = **148B3850**

**Important!**

Where products need to be certified according to specific certification societies or where higher pressures are required, the relevant information should be included at the time of order.

The table below is used to identify the valve required.

| Stainless Steel version (high pressure) |     |      |     |     |                |
|---|-----|------|-----|-----|----------------|
| Angleway                                |     |      |     |     |                |
| Size<br>mm                              | in. | Type | MWP |     | Code<br>number |
|   |     |      | bar | psi |                |

**DIN**

|     |       |                                |    |     |                 |
|-----|-------|--------------------------------|----|-----|-----------------|
| 15  | 1/2   | SVA-SS 15 D ANG CAP 52 BAR     | 52 | 754 | <b>148B3843</b> |
| 15  | 1/2   | SVA-SS 15 D ANG H-WHEEL 52 BAR | 52 | 754 | <b>148B3844</b> |
| 20  | 3/4   | SVA-SS 20 D ANG CAP 52 BAR     | 52 | 754 | <b>148B3845</b> |
| 20  | 3/4   | SVA-SS 20 D ANG H-WHEEL 52 BAR | 52 | 754 | <b>148B3846</b> |
| 25  | 1     | SVA-SS 25 D ANG CAP 52 BAR     | 52 | 754 | <b>148B3847</b> |
| 25  | 1     | SVA-SS 25 D ANG H-WHEEL 52 BAR | 52 | 754 | <b>148B3848</b> |
| 32  | 1 1/4 | SVA-SS 32 D ANG CAP 52 BAR     | 52 | 754 | <b>148B3849</b> |
| 32  | 1 1/4 | SVA-SS 32 D ANG H-WHEEL 52 BAR | 52 | 754 | <b>148B3850</b> |
| 40  | 1 1/2 | SVA-SS 40 D ANG CAP 52 BAR     | 52 | 754 | <b>148B3851</b> |
| 40  | 1 1/2 | SVA-SS 40 D ANG H-WHEEL 52 BAR | 52 | 754 | <b>148B3852</b> |
| 50  | 2     | SVA-SS 50 D ANG CAP 52 BAR     | 52 | 754 | <b>148B3853</b> |
| 50  | 2     | SVA-SS 50 D ANG H-WHEEL 52 BAR | 52 | 754 | <b>148B3854</b> |
| 65  | 2 1/2 | SVA-SS 65 D ANG CAP 52 BAR     | 52 | 754 | <b>148B3855</b> |
| 65  | 2 1/2 | SVA-SS 65 D ANG H-WHEEL 52 BAR | 52 | 754 | <b>148B3856</b> |
| 80  | 3     | SVA-SS 80 D ANG CAP 50 BAR     | 50 | 725 | <b>148B4451</b> |
| 100 | 4     | SVA-SS 100 D ANG CAP 50 BAR    | 50 | 725 | <b>148B4452</b> |
| 125 | 5     | SVA-SS 125 D ANG CAP 50 BAR    | 50 | 725 | <b>148B4453</b> |

| Stainless Steel version (high pressure) |     |      |     |     |                |
|---|-----|------|-----|-----|----------------|
| Straightway                             |     |      |     |     |                |
| Size<br>mm                              | in. | Type | MWP |     | Code<br>number |
|   |     |      | bar | psi |                |

**DIN**

|    |       |                                |    |     |                 |
|----|-------|--------------------------------|----|-----|-----------------|
| 15 | 1/2   | SVA-SS 15 D STR CAP 52 BAR     | 52 | 754 | <b>148B4249</b> |
| 15 | 1/2   | SVA-SS 15 D STR H-WHEEL 52 BAR | 52 | 754 | <b>148B4250</b> |
| 20 | 3/4   | SVA-SS 20 D STR CAP 52 BAR     | 52 | 754 | <b>148B4251</b> |
| 20 | 3/4   | SVA-SS 20 D STR H-WHEEL 52 BAR | 52 | 754 | <b>148B4252</b> |
| 25 | 1     | SVA-SS 25 D STR CAP 52 BAR     | 52 | 754 | <b>148B4253</b> |
| 25 | 1     | SVA-SS 25 D STR H-WHEEL 52 BAR | 52 | 754 | <b>148B4254</b> |
| 32 | 1 1/4 | SVA-SS 32 D STR CAP 52 BAR     | 52 | 754 | <b>148B4255</b> |
| 32 | 1 1/4 | SVA-SS 32 D STR H-WHEEL 52 BAR | 52 | 754 | <b>148B4256</b> |
| 40 | 1 1/2 | SVA-SS 40 D STR CAP 52 BAR     | 52 | 754 | <b>148B4257</b> |
| 40 | 1 1/2 | SVA-SS 40 D STR H-WHEEL 52 BAR | 52 | 754 | <b>148B4258</b> |
| 50 | 2     | SVA-SS 50 D STR CAP 52 BAR     | 52 | 754 | <b>148B4259</b> |
| 50 | 2     | SVA-SS 50 D STR H-WHEEL 52 BAR | 52 | 754 | <b>148B4260</b> |
| 65 | 2 1/2 | SVA-SS 65 D STR CAP 52 BAR     | 52 | 754 | <b>148B4261</b> |
| 65 | 2 1/2 | SVA-SS 65 D STR H-WHEEL 52 BAR | 52 | 754 | <b>148B4262</b> |

D = Butt-weld DIN

ANG = Angle-way  
STR = Straight-way

CAP = Cap

H-WHEEL = Hand wheel

**Ordering - SVA-HS**

Example:  
SVA-HS 25 ANSI straightway  
with cap = **148B3578**

**Important!**

Where products need to be certified according to specific certification societies or where higher pressures are required, the relevant information should be included at the time of order.

The table below is used to identify the valve required.

| Size |     | Type | MWP |     | Code number |
|------|-----|------|-----|-----|-------------|
| mm   | in. |      | bar | psi |             |

**DIN**

|     |       |                          |    |     |                 |
|-----|-------|--------------------------|----|-----|-----------------|
| 15  | 1/2   | SVA-HS 15 D ANG H-WHEEL  | 40 | 580 | <b>148B3367</b> |
| 15  | 1/2   | SVA-HS 15 D ANG CAP      | 40 | 580 | <b>148B3368</b> |
| 20  | 3/4   | SVA-HS 20 D ANG H-WHEEL  | 40 | 580 | <b>148B3447</b> |
| 20  | 3/4   | SVA-HS 20 D ANG CAP      | 40 | 580 | <b>148B3448</b> |
| 25  | 1     | SVA-HS 25 D ANG H-WHEEL  | 40 | 580 | <b>148B3527</b> |
| 25  | 1     | SVA-HS 25 D ANG CAP      | 40 | 580 | <b>148B3528</b> |
| 32  | 1 1/4 | SVA-HS 32 D ANG H-WHEEL  | 40 | 580 | <b>148B3607</b> |
| 32  | 1 1/4 | SVA-HS 32 D ANG CAP      | 40 | 580 | <b>148B3608</b> |
| 40  | 1 1/2 | SVA-HS 40 D ANG H-WHEEL  | 40 | 580 | <b>148B3687</b> |
| 40  | 1 1/2 | SVA-HS 40 D ANG CAP      | 40 | 580 | <b>148B3688</b> |
| 50  | 2     | SVA-HS 50 D ANG H-WHEEL  | 40 | 580 | <b>148B3267</b> |
| 50  | 2     | SVA-HS 50 D ANG CAP      | 40 | 580 | <b>148B3268</b> |
| 65  | 2 1/2 | SVA-HS 65 D ANG H-WHEEL  | 40 | 580 | <b>148B3327</b> |
| 65  | 2 1/2 | SVA-HS 65 D ANG CAP      | 40 | 580 | <b>148B3328</b> |
| 80  | 3     | SVA-HS 80 D ANG H-WHEEL  | 40 | 580 | <b>148B3067</b> |
| 80  | 3     | SVA-HS 80 D ANG CAP      | 40 | 580 | <b>148B3068</b> |
| 100 | 4     | SVA-HS 100 D ANG H-WHEEL | 40 | 580 | <b>148B3107</b> |
| 100 | 4     | SVA-HS 100 D ANG CAP     | 40 | 580 | <b>148B3108</b> |
| 125 | 5     | SVA-HS 125 D ANG H-WHEEL | 40 | 580 | <b>148B3147</b> |
| 125 | 5     | SVA-HS 125 D ANG CAP     | 40 | 580 | <b>148B3148</b> |
| 150 | 6     | SVA-HS 150 D ANG H-WHEEL | 40 | 580 | <b>148B3187</b> |
| 150 | 6     | SVA-HS 150 D ANG CAP     | 40 | 580 | <b>148B3188</b> |
| 200 | 8     | SVA-HS 200 D ANG H-WHEEL | 40 | 580 | <b>148B3227</b> |
| 200 | 8     | SVA-HS 200 D ANG CAP     | 40 | 580 | <b>148B3228</b> |

**ANSI**

|     |       |                          |    |     |                 |
|-----|-------|--------------------------|----|-----|-----------------|
| 15  | 1/2   | SVA-HS 15 A ANG H-WHEEL  | 40 | 580 | <b>148B3377</b> |
| 15  | 1/2   | SVA-HS 15 A ANG CAP      | 40 | 580 | <b>148B3378</b> |
| 20  | 3/4   | SVA-HS 20 A ANG H-WHEEL  | 40 | 580 | <b>148B3457</b> |
| 20  | 3/4   | SVA-HS 20 A ANG CAP      | 40 | 580 | <b>148B3458</b> |
| 25  | 1     | SVA-HS 25 A ANG H-WHEEL  | 40 | 580 | <b>148B3537</b> |
| 25  | 1     | SVA-HS 25 A ANG CAP      | 40 | 580 | <b>148B3538</b> |
| 32  | 1 1/4 | SVA-HS 32 A ANG H-WHEEL  | 40 | 580 | <b>148B3617</b> |
| 32  | 1 1/4 | SVA-HS 32 A ANG CAP      | 40 | 580 | <b>148B3618</b> |
| 40  | 1 1/2 | SVA-HS 40 A ANG H-WHEEL  | 40 | 580 | <b>148B3697</b> |
| 40  | 1 1/2 | SVA-HS 40 A ANG CAP      | 40 | 580 | <b>148B3698</b> |
| 50  | 2     | SVA-HS 50 A ANG H-WHEEL  | 40 | 580 | <b>148B3277</b> |
| 50  | 2     | SVA-HS 50 A ANG CAP      | 40 | 580 | <b>148B3278</b> |
| 65  | 2 1/2 | SVA-HS 65 A ANG H-WHEEL  | 40 | 580 | <b>148B3337</b> |
| 65  | 2 1/2 | SVA-HS 65 A ANG CAP      | 40 | 580 | <b>148B3338</b> |
| 80  | 3     | SVA-HS 80 A ANG H-WHEEL  | 40 | 580 | <b>148B3077</b> |
| 80  | 3     | SVA-HS 80 A ANG CAP      | 40 | 580 | <b>148B3078</b> |
| 100 | 4     | SVA-HS 100 A ANG H-WHEEL | 40 | 580 | <b>148B3117</b> |
| 100 | 4     | SVA-HS 100 A ANG CAP     | 40 | 580 | <b>148B3118</b> |
| 125 | 5     | SVA-HS 125 A ANG H-WHEEL | 40 | 580 | <b>148B3157</b> |
| 125 | 5     | SVA-HS 125 A ANG CAP     | 40 | 580 | <b>148B3158</b> |
| 150 | 6     | SVA-HS 150 A ANG H-WHEEL | 40 | 580 | <b>148B3197</b> |
| 150 | 6     | SVA-HS 150 A ANG CAP     | 40 | 580 | <b>148B3198</b> |
| 200 | 8     | SVA-HS 200 A ANG H-WHEEL | 40 | 580 | <b>148B3237</b> |
| 200 | 8     | SVA-HS 200 A ANG CAP     | 40 | 580 | <b>148B3238</b> |

**SOC**

|    |       |                           |    |     |                 |
|----|-------|---------------------------|----|-----|-----------------|
| 15 | 1/2   | SVA-HS 15 SOC ANG H-WHEEL | 40 | 580 | <b>148B3387</b> |
| 15 | 1/2   | SVA-HS 15 SOC ANG CAP     | 40 | 580 | <b>148B3388</b> |
| 20 | 3/4   | SVA-HS 20 SOC ANG H-WHEEL | 40 | 580 | <b>148B3467</b> |
| 20 | 3/4   | SVA-HS 20 SOC ANG CAP     | 40 | 580 | <b>148B3468</b> |
| 25 | 1     | SVA-HS 25 SOC ANG H-WHEEL | 40 | 580 | <b>148B3547</b> |
| 25 | 1     | SVA-HS 25 SOC ANG CAP     | 40 | 580 | <b>148B3548</b> |
| 32 | 1 1/4 | SVA-HS 32 SOC ANG H-WHEEL | 40 | 580 | <b>148B3627</b> |
| 32 | 1 1/4 | SVA-HS 32 SOC ANG CAP     | 40 | 580 | <b>148B3628</b> |
| 40 | 1 1/2 | SVA-HS 40 SOC ANG H-WHEEL | 40 | 580 | <b>148B3707</b> |
| 40 | 1 1/2 | SVA-HS 40 SOC ANG CAP     | 40 | 580 | <b>148B3708</b> |
| 50 | 2     | SVA-HS 50 SOC ANG H-WHEEL | 40 | 580 | <b>148B3287</b> |
| 50 | 2     | SVA-HS 50 SOC ANG CAP     | 40 | 580 | <b>148B3288</b> |

**FPT**

|    |     |                           |    |     |                 |
|----|-----|---------------------------|----|-----|-----------------|
| 15 | 1/2 | SVA-HS 15 FPT ANG H-WHEEL | 40 | 580 | <b>148B3397</b> |
| 15 | 1/2 | SVA-HS 15 FPT ANG CAP     | 40 | 580 | <b>148B3398</b> |
| 20 | 3/4 | SVA-HS 20 FPT ANG H-WHEEL | 40 | 580 | <b>148B3477</b> |
| 20 | 3/4 | SVA-HS 20 FPT ANG CAP     | 40 | 580 | <b>148B3478</b> |
| 25 | 1   | SVA-HS 25 FPT ANG H-WHEEL | 40 | 580 | <b>148B3557</b> |
| 25 | 1   | SVA-HS 25 FPT ANG CAP     | 40 | 580 | <b>148B3558</b> |

| Size |     | Type | MWP |     | Code number |
|------|-----|------|-----|-----|-------------|
| mm   | in. |      | bar | psi |             |

**DIN**

|     |       |                          |    |     |                 |
|-----|-------|--------------------------|----|-----|-----------------|
| 15  | 1/2   | SVA-HS 15 D STR H-WHEEL  | 40 | 580 | <b>148B3407</b> |
| 15  | 1/2   | SVA-HS 15 D STR CAP      | 40 | 580 | <b>148B3408</b> |
| 20  | 3/4   | SVA-HS 20 D STR H-WHEEL  | 40 | 580 | <b>148B3487</b> |
| 20  | 3/4   | SVA-HS 20 D STR CAP      | 40 | 580 | <b>148B3488</b> |
| 25  | 1     | SVA-HS 25 D STR H-WHEEL  | 40 | 580 | <b>148B3567</b> |
| 25  | 1     | SVA-HS 25 D STR CAP      | 40 | 580 | <b>148B3568</b> |
| 32  | 1 1/4 | SVA-HS 32 D STR H-WHEEL  | 40 | 580 | <b>148B3647</b> |
| 32  | 1 1/4 | SVA-HS 32 D STR CAP      | 40 | 580 | <b>148B3648</b> |
| 40  | 1 1/2 | SVA-HS 40 D STR H-WHEEL  | 40 | 580 | <b>148B3717</b> |
| 40  | 1 1/2 | SVA-HS 40 D STR CAP      | 40 | 580 | <b>148B3718</b> |
| 50  | 2     | SVA-HS 50 D STR H-WHEEL  | 40 | 580 | <b>148B3297</b> |
| 50  | 2     | SVA-HS 50 D STR CAP      | 40 | 580 | <b>148B3298</b> |
| 65  | 2 1/2 | SVA-HS 65 D STR H-WHEEL  | 40 | 580 | <b>148B3347</b> |
| 65  | 2 1/2 | SVA-HS 65 D STR CAP      | 40 | 580 | <b>148B3348</b> |
| 80  | 3     | SVA-HS 80 D STR H-WHEEL  | 40 | 580 | <b>148B3087</b> |
| 80  | 3     | SVA-HS 80 D STR CAP      | 40 | 580 | <b>148B3088</b> |
| 100 | 4     | SVA-HS 100 D STR H-WHEEL | 40 | 580 | <b>148B3127</b> |
| 100 | 4     | SVA-HS 100 D STR CAP     | 40 | 580 | <b>148B3128</b> |
| 125 | 5     | SVA-HS 125 D STR H-WHEEL | 40 | 580 | <b>148B3167</b> |
| 125 | 5     | SVA-HS 125 D STR CAP     | 40 | 580 | <b>148B3168</b> |
| 150 | 6     | SVA-HS 150 D STR H-WHEEL | 40 | 580 | <b>148B3207</b> |
| 150 | 6     | SVA-HS 150 D STR CAP     | 40 | 580 | <b>148B3208</b> |
| 200 | 8     | SVA-HS 200 D STR H-WHEEL | 40 | 580 | <b>148B3247</b> |
| 200 | 8     | SVA-HS 200 D STR CAP     | 40 | 580 | <b>148B3248</b> |

**ANSI**

|     |       |                          |    |     |                 |
|-----|-------|--------------------------|----|-----|-----------------|
| 15  | 1/2   | SVA-HS 15 A STR H-WHEEL  | 40 | 580 | <b>148B3417</b> |
| 15  | 1/2   | SVA-HS 15 A STR CAP      | 40 | 580 | <b>148B3418</b> |
| 20  | 3/4   | SVA-HS 20 A STR H-WHEEL  | 40 | 580 | <b>148B3497</b> |
| 20  | 3/4   | SVA-HS 20 A STR CAP      | 40 | 580 | <b>148B3498</b> |
| 25  | 1     | SVA-HS 25 A STR H-WHEEL  | 40 | 580 | <b>148B3577</b> |
| 25  | 1     | SVA-HS 25 A STR CAP      | 40 | 580 | <b>148B3578</b> |
| 32  | 1 1/4 | SVA-HS 32 A STR H-WHEEL  | 40 | 580 | <b>148B3657</b> |
| 32  | 1 1/4 | SVA-HS 32 A STR CAP      | 40 | 580 | <b>148B3658</b> |
| 40  | 1 1/2 | SVA-HS 40 A STR H-WHEEL  | 40 | 580 | <b>148B3727</b> |
| 40  | 1 1/2 | SVA-HS 40 A STR CAP      | 40 | 580 | <b>148B3728</b> |
| 50  | 2     | SVA-HS 50 A STR H-WHEEL  | 40 | 580 | <b>148B3307</b> |
| 50  | 2     | SVA-HS 50 A STR CAP      | 40 | 580 | <b>148B3308</b> |
| 65  | 2 1/2 | SVA-HS 65 A STR H-WHEEL  | 40 | 580 | <b>148B3357</b> |
| 65  | 2 1/2 | SVA-HS 65 A STR CAP      | 40 | 580 | <b>148B3358</b> |
| 80  | 3     | SVA-HS 80 A STR H-WHEEL  | 40 | 580 | <b>148B3097</b> |
| 80  | 3     | SVA-HS 80 A STR CAP      | 40 | 580 | <b>148B3098</b> |
| 100 | 4     | SVA-HS 100 A STR H-WHEEL | 40 | 580 | <b>148B3137</b> |
| 100 | 4     | SVA-HS 100 A STR CAP     | 40 | 580 | <b>148B3138</b> |
| 125 | 5     | SVA-HS 125 A STR H-WHEEL | 40 | 580 | <b>148B3177</b> |
| 125 | 5     | SVA-HS 125 A STR CAP     | 40 | 580 | <b>148B3178</b> |
| 150 | 6     | SVA-HS 150 A STR H-WHEEL | 40 | 580 | <b>148B3217</b> |
| 150 | 6     | SVA-HS 150 A STR CAP     | 40 | 580 | <b>148B3218</b> |
| 200 | 8     | SVA-HS 200 A STR H-WHEEL | 40 | 580 | <b>148B3257</b> |
| 200 | 8     | SVA-HS 200 A STR CAP     | 40 | 580 | <b>148B3258</b> |

**SOC**

|    |     |                           |    |     |                      |
|----|-----|---------------------------|----|-----|----------------------|
| 15 | 1/2 | SVA-HS 15 SOC STR H-WHEEL | 40 | 580 | <b>148B3427</b>      |
| 15 | 1/2 | SVA-HS 15 SOC STR CAP     | 40 | 580 | <b>148B3428</b>      |
| 20 | 3/4 | SVA-HS 20 SOC STR H-WHEEL | 40 | 580 | <b>148B3507</b>      |
| 20 | 3/4 | SVA-HS 20 SOC STR CAP     | 40 | 580 | <b>148B3508</b> </td |