

Data Sheet

# Shut-off valve Type **SVA-S** and **SVA-L**

Assures favorable flow characteristics in industrial refrigeration applications



SVA shut-off valves are available in angleway and straightway versions and with Standard neck (SVA-S) and Long neck (SVA-L)

The shut-off valves are designed to meet all industrial refrigeration application requirements and 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 and withstand a high system pulsation and vibration, which can be present specifically in the discharge line.

## Features

- Applicable to HCFC, HFC, R717 (Ammonia), R744 (CO<sub>2</sub>) and all flammable refrigerants.
- Modular Concept:
  - Each valve housing is available with several different connection types and sizes
  - Possible to convert SVA-S or SVA-L to any other product in the Flexline™ SVL family (hand operated regulating valve, check & stop valve, check valve or strainer) just by replacing the complete top part
- Fast and easy valve overhaul service. It is easy to replace the top part and no welding is needed
- Optional accessories:
  - Heavy duty industrial hand wheel for frequent operation
  - Cap for infrequent operation
- Available in angleway and straightway versions with Standard neck or Long neck (DN 15 to DN 40) 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 (¼ - 2½ in.)
- Internal PTFE backseating: – DN 80 - 200 (3 - 8 in.)
- Can accept flow in both directions
- Housing and bonnet material is low temperature steel according to requirements of the Pressure Equipment Directive and other international classification authorities
- Equipped with stainless steel bolts
- Max. working pressure: 52 bar / 754 psig
- Temperature range: -60/+150 °C (-76/+302 °F)
- Classification: DNV, CRN, BV, EAC etc. To get an updated list of certification on the products please contact your local Danfoss Sales Company.

## Media

### **Refrigerants**

Applicable to HCFC, HFC, R717 (Ammonia), R744 (CO<sub>2</sub>) and all flammable refrigerants.

### **New refrigerants**

Danfoss products are continually evaluated for use with new refrigerants depending on market requirements.

When a refrigerant is approved for use by Danfoss, it is added to the relevant portfolio, and the R number of the refrigerant (e.g. R513A) will be added to the technical data of the code number. Therefore, products for specific refrigerants are best checked at [store.danfoss.com/en/](https://store.danfoss.com/en/), or by contacting your local Danfoss representative.

## Product specification

### Design

#### Housing

Made of special, cold resistant steel.

#### 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 and the special design will avoid cone spin due to pulsation and vibration when the valve is in open position. A teflon tightening ring provides perfect sealing with minimum closing force.

#### Spindle

Made of polished stainless steel, ideal for leak seal sealing.

#### Packing gland

The low temperature packing gland 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.

For special and/or high demanding applications/conditions which run with high constant temperatures, it is recommended to replace the packing gland with "HL Packing Gland" as spare part. For more information, please, contact your local Danfoss sales representative.

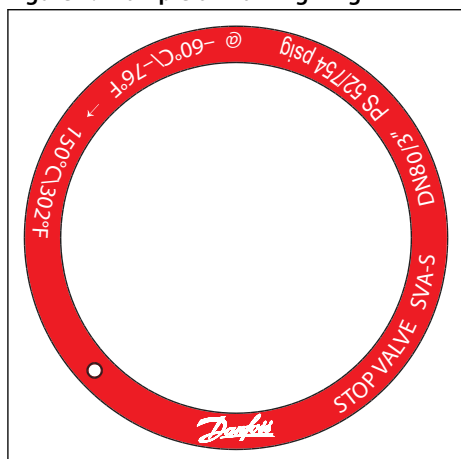
#### Installation

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  $k_v$ -value ( $C_v$ -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.

Figure 1: Example of Marking Ring



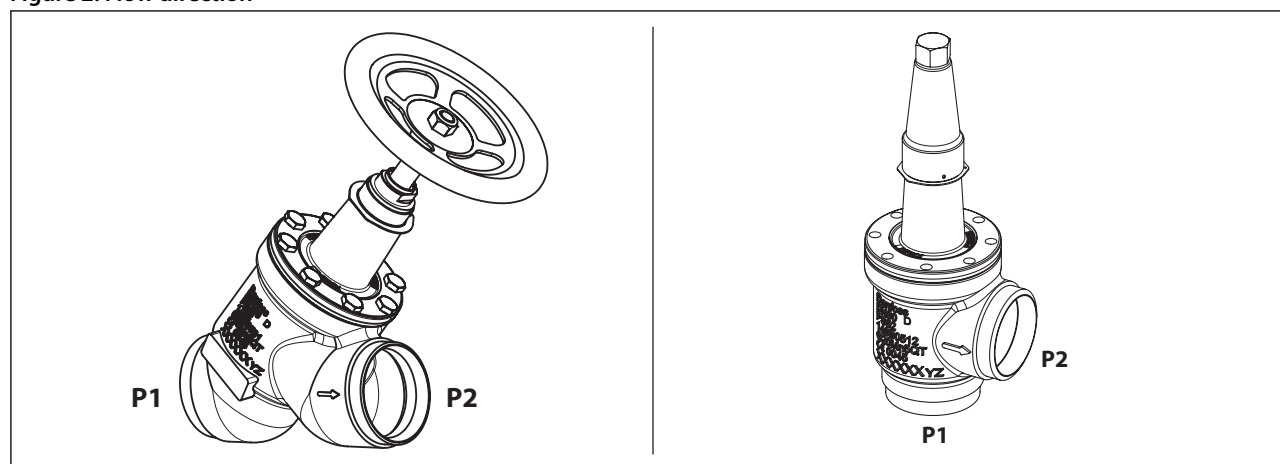
## Pressure and temperature data

Table 1: Pressure and temperature

| Description           | Values                    |
|-----------------------|---------------------------|
| Temperature range     | -60/+150 °C (-76/+302 °F) |
| Max. working pressure | 52 bar / 754 psig         |

### Maximum opening and closing pressure differential (for sizes 100 to 200)

Figure 2: Flow direction



The maximum opening pressure differential is equal to the maximum pressure difference between inlet and outlet in the flow direction where the valve can be opened using normal hand force without damaging the valve.

The maximum closing pressure differential is equal to the maximum pressure difference between inlet and outlet in the flow direction where the valve is sealing according to specifications.

The maximum opening and closing pressure differentials are as default equal to the maximum operating pressure (PS or MWP) for valve sizes up to and including DN 80.

For valve sizes of DN 100 or larger than DN 100 the opening and closing pressure differential depends on the flow direction as shown below. Note that the default flow direction indicated by the flow arrow is P1 -> P2.

Table 2: Flow direction

| Valve size [DN] | Flow direction                                    |                                       |                                       |
|-----------------|---------------------------------------------------|---------------------------------------|---------------------------------------|
|                 | P1 → P2                                           | P2 → P1                               | P2 → P1                               |
|                 | Maximum opening and closing pressure differential | Maximum closing pressure differential | Maximum opening pressure differential |
| 100             | 44 bar / 638 psi                                  | 52 bar / 754 psi                      | 44 bar / 638 psi                      |
| 125             | 33 bar / 478 psi                                  | 52 bar / 754 psi                      | 33 bar / 478 psi                      |
| 150             | 21 bar / 304 psi                                  | 52 bar / 754 psi                      | 21 bar / 304 psi                      |
| 200             | 14 bar / 203 psi                                  | 52 bar / 754 psi                      | 14 bar / 203 psi                      |

## Connections

Available with the following connections:

- Butt-weld DIN (EN 10220)
- Butt-weld ANSI (B 36.10 Schedule 80), DN 6 - 40 (¼ - 1½ in.)
- Butt-weld ANSI (B 36.10 Schedule 40), DN 50 - 200 (2 - 8 in.)
- Butt-weld GOST, (8734-75 and 8732-78) DN 10 - 150 (⅜ - 6 in.)
- Socket Weld (ANSI B 16.11), DN 15 - DN 50 (½ - 2 in.)
- Outside pipe thread G ½ 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.)
- Special combination (DN 20 only), Socket weld inlet, FPT ¾ in. outlet
- Special connections Butt-weld F, see (link to [AI174086419766\\_SVL](#))

## Shut-off valve, type SVA-S and SVA-L

Figure 3: DIN

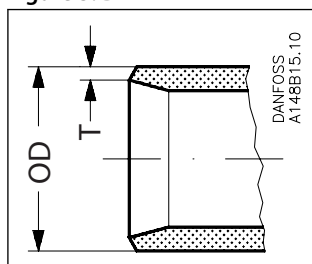


Table 3: Butt-weld DIN (EN 10220)

| Size<br>mm | Size<br>in. | OD<br>mm | T<br>mm | OD<br>in. | T<br>in. | k <sub>v</sub> -angle<br>m³/h | k <sub>v</sub> -straight<br>m³/h | C <sub>v</sub> -angle<br>USgal/min | C <sub>v</sub> -straight<br>USgal/min |
|------------|-------------|----------|---------|-----------|----------|-------------------------------|----------------------------------|------------------------------------|---------------------------------------|
| 6          | ¼           | 13.5     | 2.3     | 0.531     | 0.091    | 2.9                           | 2.0                              | 3.4                                | 2.4                                   |
| 10         | ¾           | 17.2     | 2.3     | 0.677     | 0.091    | 4.5                           | 3.2                              | 5.2                                | 3.6                                   |
| 15         | ½           | 21.3     | 2.3     | 0.839     | 0.091    | 7.0                           | 4.9                              | 8.1                                | 5.7                                   |
| 20         | ¾           | 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         | 1¼          | 42.4     | 2.6     | 1.669     | 0.102    | 42.6                          | 29.8                             | 49.4                               | 34.6                                  |
| 40         | 1½          | 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         | 2½          | 76.1     | 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                                  |

Figure 4: ANSI

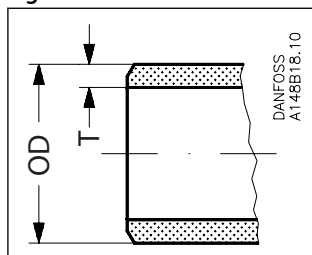


Table 4: Butt-weld ANSI (B 36.10 Schedule 80)

| Size<br>mm | Size<br>in. | OD<br>mm | T<br>mm | OD<br>in. | T<br>in. | k <sub>v</sub> -angle<br>m³/h | k <sub>v</sub> -straight<br>m³/h | C <sub>v</sub> -angle<br>USgal/min | C <sub>v</sub> -straight<br>USgal/min |
|------------|-------------|----------|---------|-----------|----------|-------------------------------|----------------------------------|------------------------------------|---------------------------------------|
| 6          | ¼           | 13.5     | 3.0     | 0.531     | 0.118    | 2.9                           | 2.03                             | 3.4                                | 2.4                                   |
| 10         | ¾           | 17.2     | 3.2     | 0.677     | 0.126    | 4.5                           | 3.15                             | 5.2                                | 3.6                                   |
| 15         | ½           | 21.3     | 3.7     | 0.839     | 0.146    | 7.0                           | 4.9                              | 8.1                                | 5.7                                   |
| 20         | ¾           | 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         | 1¼          | 42.4     | 4.9     | 1.669     | 0.193    | 42.6                          | 29.8                             | 49.4                               | 34.6                                  |
| 40         | 1½          | 48.3     | 5.1     | 1.902     | 0.201    | 45.2                          | 31.6                             | 52.4                               | 36.7                                  |

Table 5: Butt-weld ANSI (B 36.10 Schedule 40)

| Size<br>mm | Size<br>in. | OD<br>mm | T<br>mm | OD<br>in. | T<br>in. | k <sub>v</sub> -angle<br>m³/h | k <sub>v</sub> -straight<br>m³/h | C <sub>v</sub> -angle<br>USgal/min | C <sub>v</sub> -straight<br>USgal/min |
|------------|-------------|----------|---------|-----------|----------|-------------------------------|----------------------------------|------------------------------------|---------------------------------------|
| 50         | 2           | 60.3     | 3.9     | 2.37      | 0.15     | 80                            | 65                               | 93                                 | 76                                    |
| 65         | 2½          | 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                                  |

Figure 5: GOST

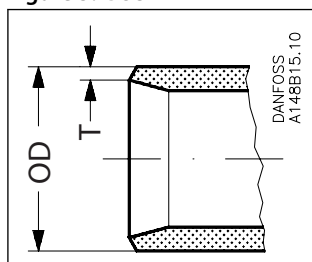


Table 6: Butt-weld GOST (8734-75 and 8732-78)

| Size<br>mm | Size<br>in. | OD<br>mm | T<br>mm | OD<br>in. | T<br>in. | k <sub>v</sub> -angle<br>m <sup>3</sup> /h | k <sub>v</sub> -straight<br>m <sup>3</sup> /h | C <sub>v</sub> -angle<br>USgal/min | C <sub>v</sub> -straight<br>USgal/min |
|------------|-------------|----------|---------|-----------|----------|--------------------------------------------|-----------------------------------------------|------------------------------------|---------------------------------------|
| 10         | 3/8         | 14       | 2       | 0.551     | 0.079    | 4.5                                        | 3.2                                           | 5.2                                | 3.6                                   |
| 15         | 1/2         | 18       | 2       | 0.709     | 0.079    | 7                                          | 4.9                                           | 8.1                                | 5.7                                   |
| 20         | 3/4         | 25       | 2.5     | 0.984     | 0.098    | 14.6                                       | 10.2                                          | 16.9                               | 11.8                                  |
| 25         | 1           | 32       | 3       | 1.260     | 0.118    | 24.8                                       | 17.4                                          | 28.8                               | 20.2                                  |
| 32         | 1 1/4       | 38       | 3       | 1.496     | 0.118    | 42.6                                       | 29.8                                          | 49.4                               | 34.6                                  |
| 40         | 1 1/2       | 45       | 3       | 1.772     | 0.118    | 45.2                                       | 31.6                                          | 52.4                               | 36.7                                  |
| 50         | 2           | 57       | 3.5     | 2.244     | 0.138    | 80                                         | 65                                            | 93                                 | 76                                    |
| 65         | 2 1/2       | 76.1     | 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           | 108      | 4       | 4.252     | 0.157    | 313                                        | 278                                           | 363                                | 323                                   |
| 125        | 5           | 133      | 4       | 5.236     | 0.157    | 514                                        | 470                                           | 596                                | 545                                   |
| 150        | 6           | 159      | 4.5     | 6.260     | 0.177    | 785                                        | 597                                           | 911                                | 693                                   |

Figure 6: SOC

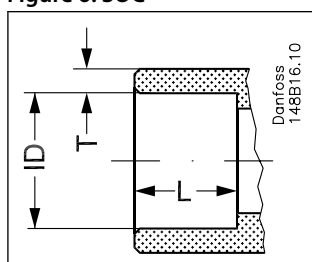
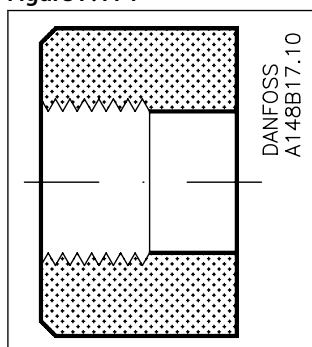


Table 7: Socket welding ANSI (B 16.11)

| Size<br>mm | Size<br>in. | OD<br>mm | T<br>mm | OD<br>in. | T<br>in. | L<br>mm | L<br>in. | k <sub>v</sub> -angle<br>m <sup>3</sup> /h | k <sub>v</sub> -straight<br>m <sup>3</sup> /h | C <sub>v</sub> -angle<br>USgal/min | C <sub>v</sub> -straight<br>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     | 14.6                                       | 10.9                                          | 16.9                               | 11.8                                  |
| 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                                    |

Figure 7: FPT



## Shut-off valve, type SVA-S and SVA-L

Table 8: FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1)

| Size<br>mm | Size<br>in. | Inside pipe thread | $k_v$ -angle<br>m <sup>3</sup> /h | $k_v$ -straight<br>m <sup>3</sup> /h | $C_v$ -angle<br>USgal/min | $C_v$ -straight<br>USgal/min |
|------------|-------------|--------------------|-----------------------------------|--------------------------------------|---------------------------|------------------------------|
| 15         | ½           | (½ × 14 NPT)       | 8.5                               | 6.0                                  | 9.9                       | 7.0                          |
| 20         | ¾           | (¾ × 14 NPT)       | 10                                | 7.0                                  | 11.6                      | 8.1                          |
| 25         | 1           | (1 × 11.5 NPT)     | 32                                | 22.4                                 | 37.1                      | 26.0                         |
| 32         | 1¼          | (1¼ × 11.5 NPT)    | 36                                | 25.2                                 | 41.8                      | 29.3                         |

## Connections - SVA 6

Figure 8: T

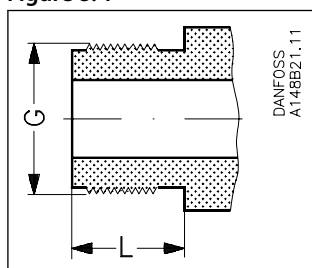


Table 9: T outside pipe thread, (ISO 228/1)

| Size<br>mm | Size<br>in. | Outside pipe thread | L<br>mm | L<br>in. | $k_v$ -angle<br>m <sup>3</sup> /h | $k_v$ -straight<br>m <sup>3</sup> /h | $C_v$ -angle<br>USgal/min | $C_v$ -straight<br>USgal/min |
|------------|-------------|---------------------|---------|----------|-----------------------------------|--------------------------------------|---------------------------|------------------------------|
| 6          | ¼           | G 1/2               | 16      | 0.63     | 2.5                               | 2.0                                  | 2.9                       | 2.0                          |

Figure 9: ND

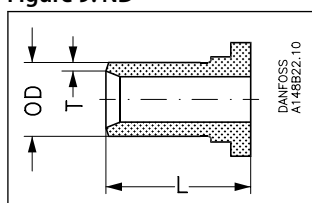


Table 10: Nipples for T outside pipe thread, (ISO 228/1)

| Size<br>mm | Size<br>in. | OD<br>mm | T<br>mm | OD<br>in. | T<br>in. | L<br>mm | L<br>in. | Inside pipe thread |
|------------|-------------|----------|---------|-----------|----------|---------|----------|--------------------|
| 6          | ¼           | 13.5     | 2.3     | 0.531     | 0.091    | 60      | 2.36     | G½                 |

Figure 10: NA

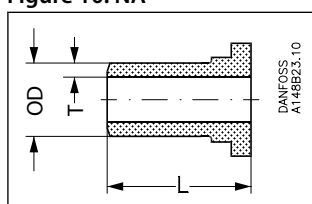


Table 11: NA welding nipples, ANSI (B 36.10 Schedule 80)

| Size<br>mm | Size<br>in. | OD<br>mm | T<br>mm | OD<br>in. | T<br>in. | L<br>mm | L<br>in. | Inside pipe thread |
|------------|-------------|----------|---------|-----------|----------|---------|----------|--------------------|
| 6          | ¼           | 13.5     | 3.0     | 0.531     | 0.118    | 60      | 2.36     | G½                 |



## Material specification

Figure 11: SVA-S 6-10 and SVA-S 15-20

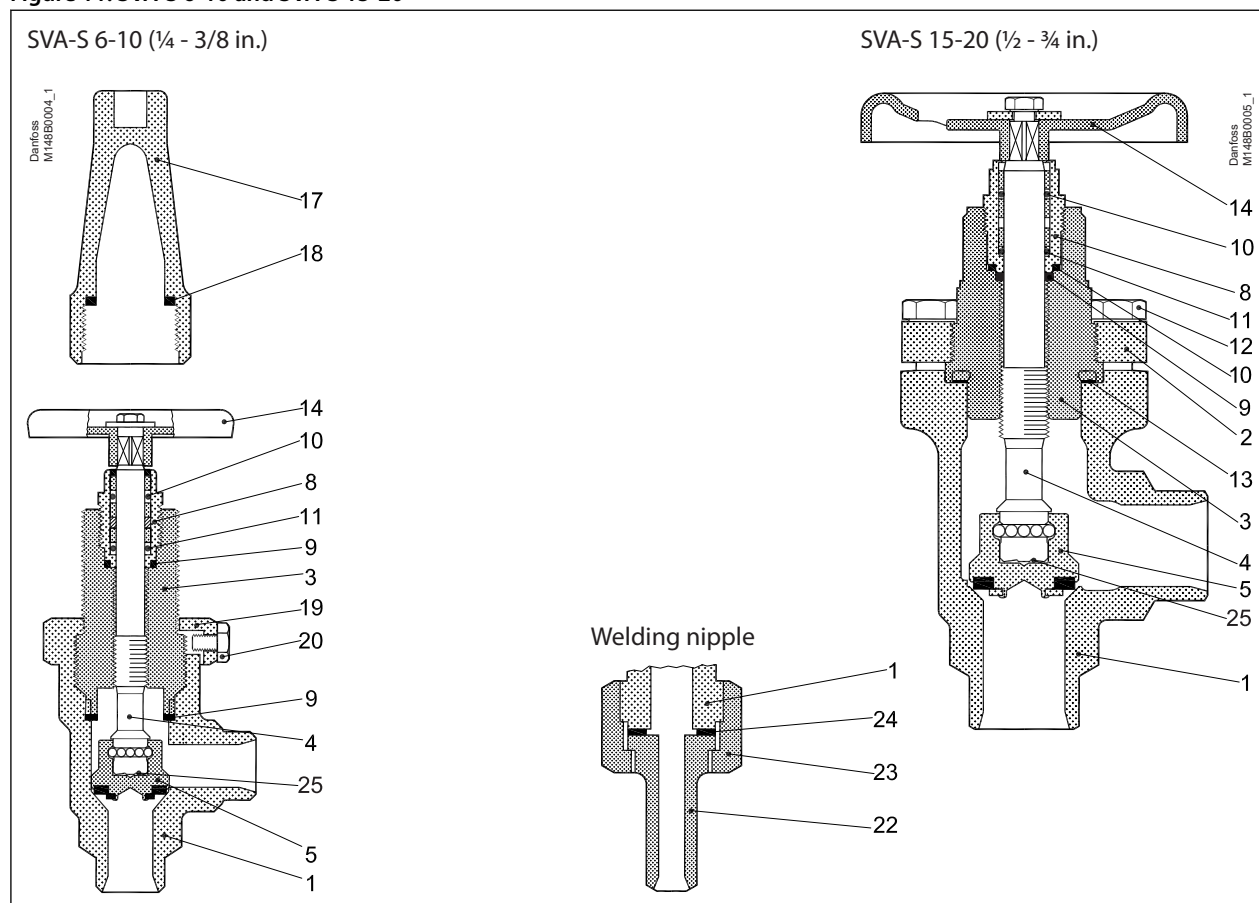


Table 12: Material and parts list

| No. | Part                      | Material              | EN                                                         | ISO               | ASTM                   |
|-----|---------------------------|-----------------------|------------------------------------------------------------|-------------------|------------------------|
| 1   | Housing                   | Steel                 | G20Mn5QT, 10213-3<br>P285QH+QT, 10222-4                    |                   | LCC, A352<br>LF2, A350 |
| 2   | Bonnet, Flange            | Steel                 | G20Mn5QT, 10213-3<br>P285QH+QT, 10222-4<br>P275NL, 10028-3 |                   | LCC, A352<br>LF2, A350 |
| 3   | Bonnet, Insert            | Steel                 | 115Mn30<br>10087                                           | Type 2<br>R 683/9 | AISI 1213              |
| 4   | Spindle                   | Stainless steel       | X8CrNiS18-9<br>10088                                       | Type 17<br>683/13 | AISI 303               |
| 5   | Cone                      | Steel                 | 115Mn30<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  | Spring loaded Teflon ring | PTFE                  |                                                            |                   |                        |
| 12  | Bolts                     | Stainless steel       | A2-70                                                      | A2-70             | Type 308               |
| 14  | Handwheel                 | Steel                 |                                                            |                   |                        |
| 17  | Cap                       | Aluminium             |                                                            |                   |                        |
| 18  | Gasket for cap            | Nylon                 |                                                            |                   |                        |
| 19  | Locking nut               | Steel                 |                                                            |                   |                        |
| 20  | Screw                     | Steel                 |                                                            |                   |                        |
| 22  | Welding nipple            | Steel                 | S235JRG2<br>10025                                          | Fe260B, 630       | Grade C, A 283         |

## Shut-off valve, type SVA-S and SVA-L

| No. | Part           | Material     | EN               | ISO               | ASTM      |
|-----|----------------|--------------|------------------|-------------------|-----------|
| 23  | Nut            | Steel        | 115Mn30<br>10087 | Type 2<br>R 683/9 | AISI 1213 |
| 24  | Packing washer | Non-asbestos |                  |                   |           |
| 25  | Disk spring    | Steel        |                  |                   |           |

Figure 12: SVA-S 25-40 (1 - 1½ in.)

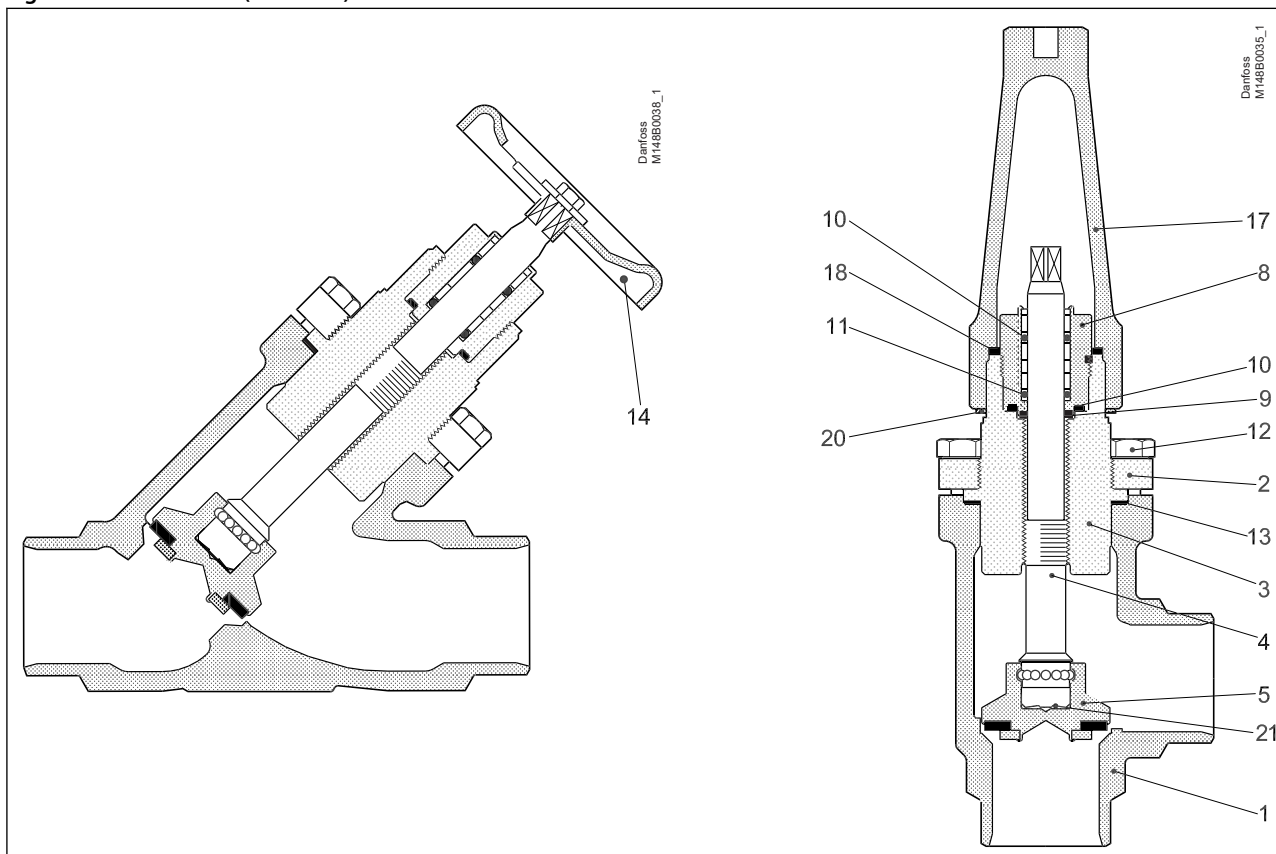


Table 13: Material and parts list

| No. | Part                      | Material              | EN                                                         | ISO               | ASTM                   |
|-----|---------------------------|-----------------------|------------------------------------------------------------|-------------------|------------------------|
| 1   | Housing                   | Steel                 | G20Mn5QT, 10213-3<br>P285QH+QT, 10222-4                    |                   | LCC, A352<br>LF2, A350 |
| 2   | Bonnet, Flange            | Steel                 | G20Mn5QT, 10213-3<br>P285QH+QT, 10222-4<br>P275NL, 10028-3 |                   | LCC, A352<br>LF2, A350 |
| 3   | Bonnet, Insert            | Steel                 | 115Mn30<br>10087                                           | Type 2<br>R 683/9 | AISI 1213              |
| 4   | Spindle                   | Stainless steel       | X8CrNiS18-9<br>10088                                       | Type 17<br>683/13 | AISI 303               |
| 5   | Cone                      | Steel                 | 115Mn30<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  | Spring loaded Teflon ring | PTFE                  |                                                            |                   |                        |
| 12  | Bolts                     | Stainless steel       | A2-70                                                      | A2-70             | Type 308               |
| 13  | Gasket                    | Fiber, Non-asbestos   |                                                            |                   |                        |
| 14  | Handwheel                 | Steel                 |                                                            |                   |                        |
| 17  | Cap                       | Aluminium             |                                                            |                   |                        |
| 18  | Gasket for cap            | Nylon                 |                                                            |                   |                        |
| 20  | Identification ring       | Stainless steel       |                                                            |                   |                        |
| 21  | Disk spring               | Steel                 |                                                            |                   |                        |

# Shut-off valve, type SVA-S and SVA-L

Figure 13: SVA-L 15 - 40 (½ - 1½ in.)

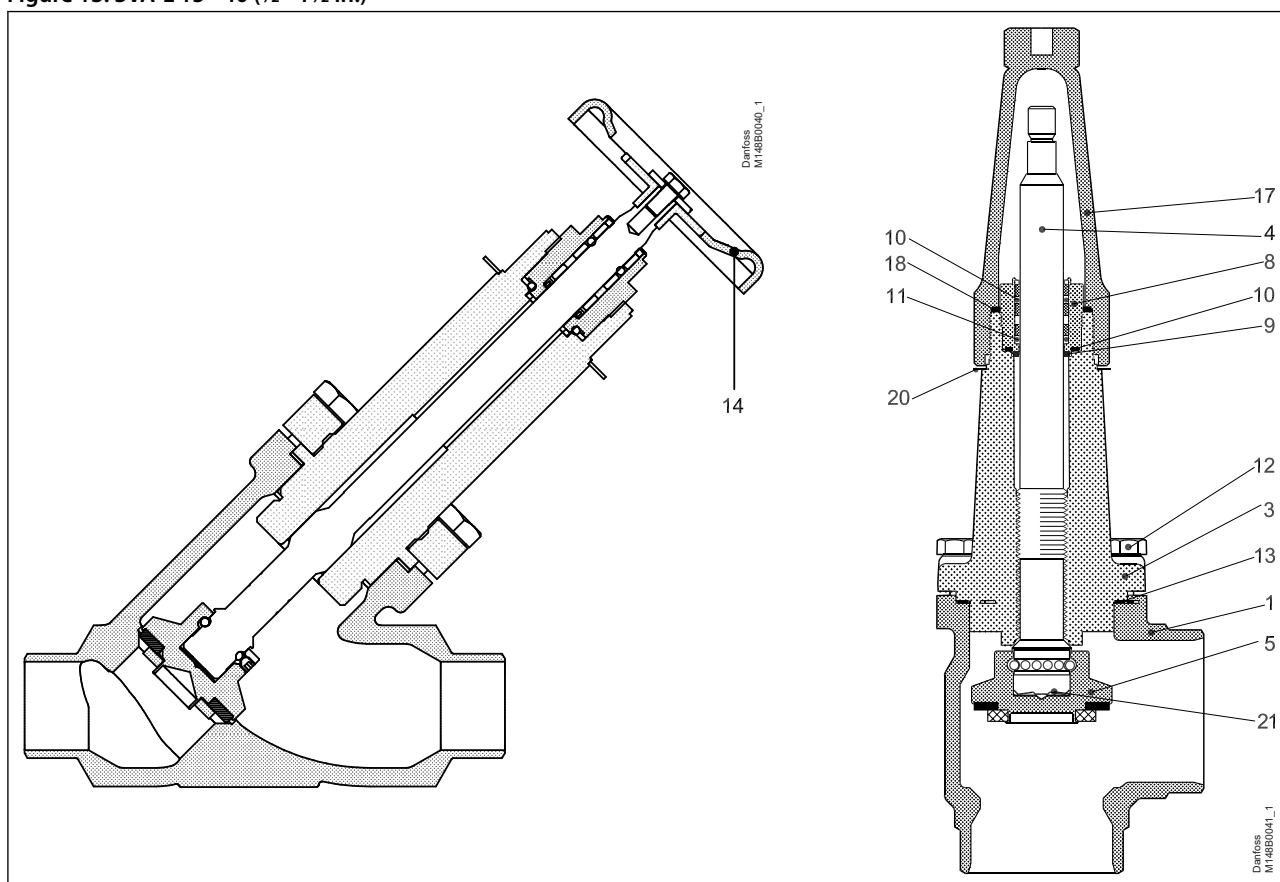


Table 14: Material and parts list

| No. | Part                      | Material              | EN                                      | ISO               | ASTM                   |
|-----|---------------------------|-----------------------|-----------------------------------------|-------------------|------------------------|
| 1   | Housing                   | Steel                 | G20Mn5QT, 10213-3<br>P285QH+QT, 10222-4 |                   | LCC, A352<br>LF2, A350 |
| 3   | Valve bonnet              | Steel                 | G20Mn5QT, 10213-3<br>P285QH+QT, 10222-4 |                   | LCC, A352<br>LF2, A350 |
| 4   | Spindle                   | Stainless steel       | X8CrNiS18-9<br>10088                    | 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  | Spring loaded Teflon ring | PTFE                  |                                         |                   |                        |
| 12  | Bolts                     | Stainless steel       | A2-70                                   | A2-70             | Type 308               |
| 13  | Gasket                    | Fiber, Non-asbestos   |                                         |                   |                        |
| 14  | Hand wheel                | Steel                 |                                         |                   |                        |
| 17  | Cap                       | Aluminium             |                                         |                   |                        |
| 18  | Gasket for cap            | Nylon (PA6)           |                                         |                   |                        |
| 20  | Identification ring       | Stainless steel       |                                         |                   |                        |
| 21  | Disk spring               | Steel                 |                                         |                   |                        |

# Shut-off valve, type SVA-S and SVA-L

Figure 14: SVA-S 50-65 (2 - 2½ in.)

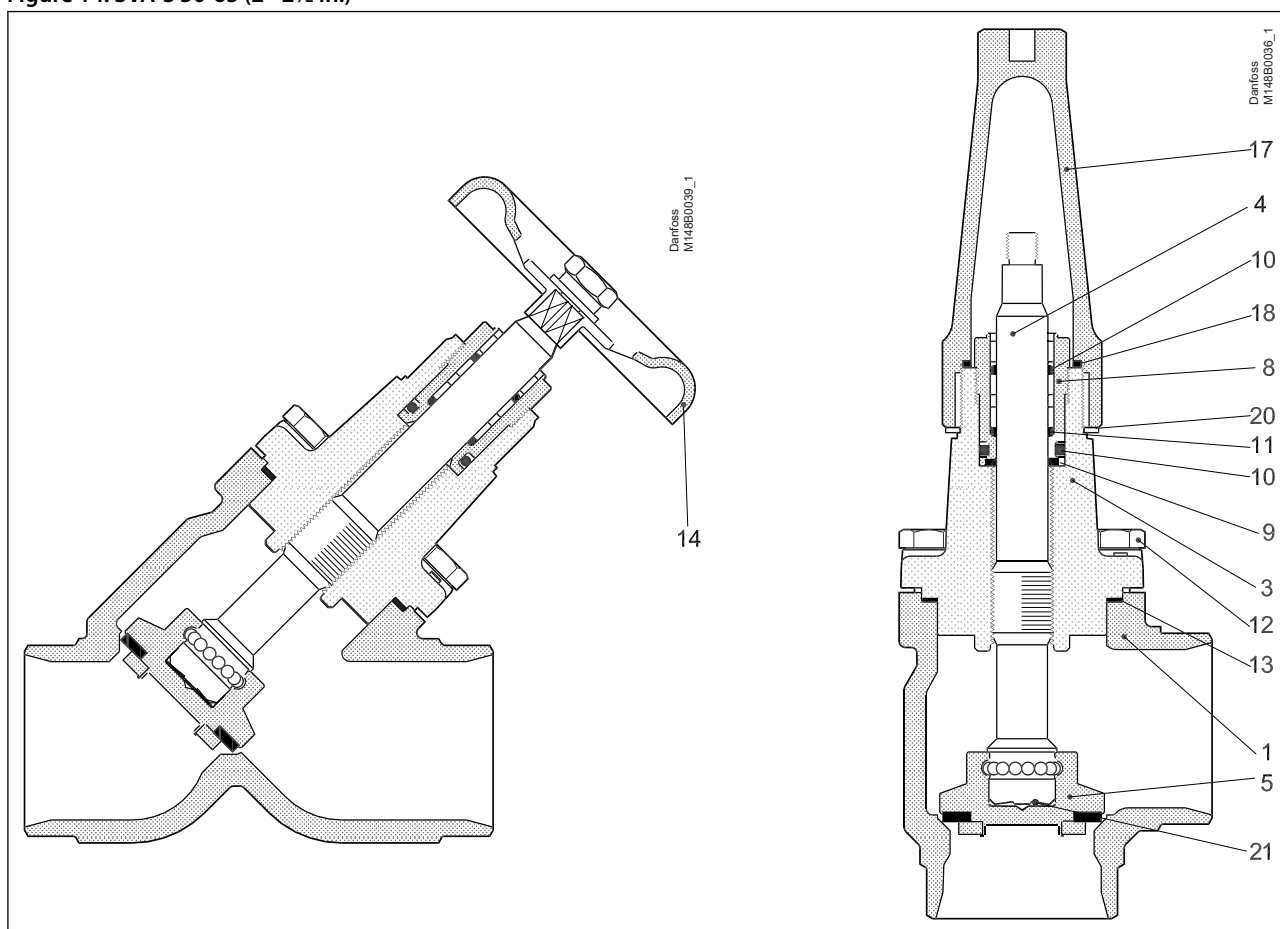


Table 15: Material and parts list

| No. | Part                      | Material              | EN                                              | ISO               | ASTM                   |
|-----|---------------------------|-----------------------|-------------------------------------------------|-------------------|------------------------|
| 1   | Housing                   | Steel                 | G20Mn5QT, 10213-3<br>P285QH+QT, 10222-4         |                   | LCC, A352<br>LF2, A350 |
| 3   | Valve bonnet              | Steel                 | G20Mn5QT, 10213-3<br>P285QH+QT, 10222-4         |                   | LCC, A352<br>LF2, A350 |
| 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  | Spring loaded Teflon ring | PTFE                  |                                                 |                   |                        |
| 12  | Bolts                     | Stainless steel       | A2-70                                           | A2-70             | Type 308               |
| 13  | Gasket                    | Fiber, Non-asbestos   |                                                 |                   |                        |
| 14  | Handwheel                 | Steel                 |                                                 |                   |                        |
| 17  | Cap                       | Aluminium             |                                                 |                   |                        |
| 18  | Gasket for cap            | Nylon                 |                                                 |                   |                        |
| 19  | Locking nut               | Steel                 |                                                 |                   |                        |
| 20  | Identification ring       | Stainless steel       |                                                 |                   |                        |
| 21  | Disk spring               | Steel                 |                                                 |                   |                        |

## Shut-off valve, type SVA-S and SVA-L

Figure 15: SVA-S 80 - 150 (3 - 6 in.)

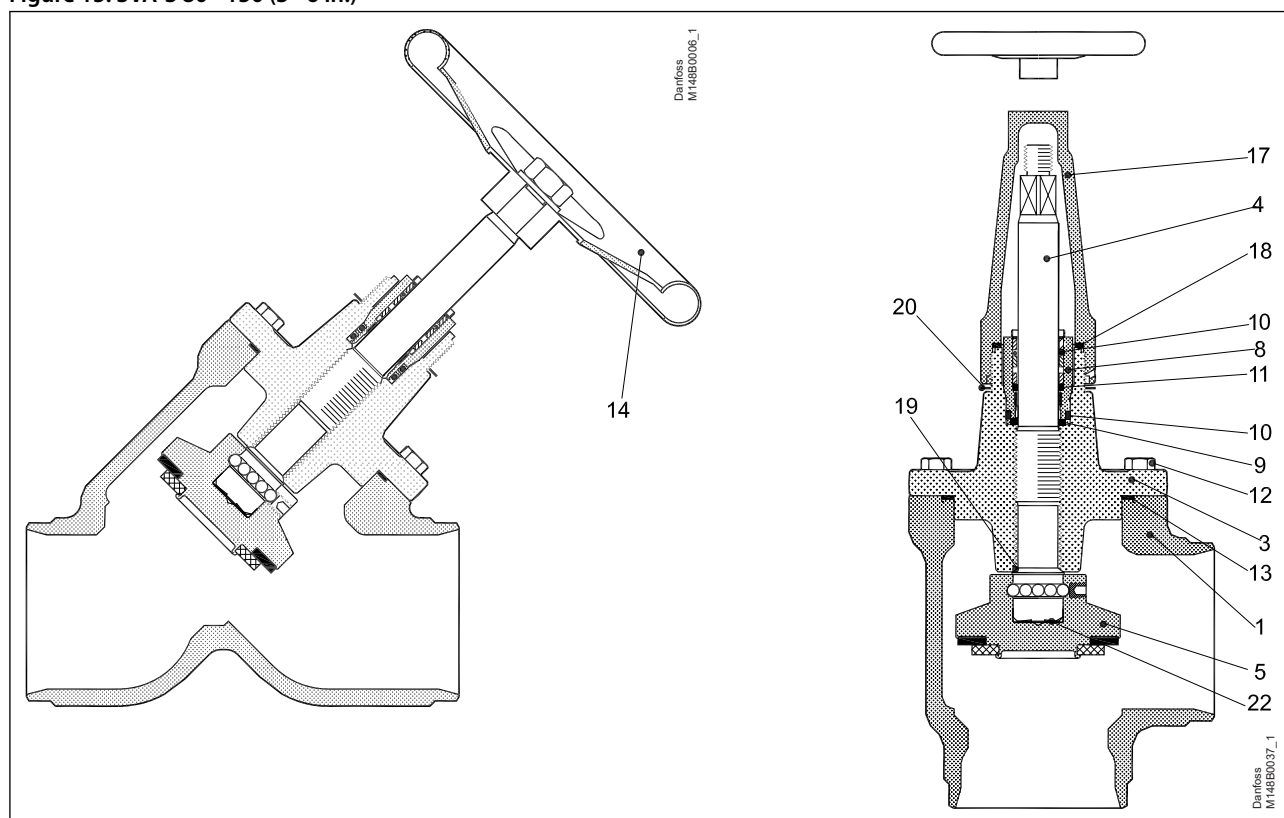


Table 16: Material and parts list

| No. | Part                      | Material               | EN                                                                                 | ISO                  | ASTM                                                                                |
|-----|---------------------------|------------------------|------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|
| 1   | Housing                   | Steel                  | G20Mn5QT<br>10213-3                                                                |                      | LCC<br>A352                                                                         |
| 3   | Valve bonnet              | Steel                  | SVA 80: G20Mn5QT<br>SVA 100: P285QH+QT<br>SVA 125: P285QH+QT<br>SVA 150: P285QH+QT |                      | SVA 80: LCC, A352<br>SVA 100: LF2, A350<br>SVA 125: LF2, A350<br>SVA 150: 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   | Packing washer            | Aluminium              |                                                                                    |                      |                                                                                     |
| 10  | O-ring                    | Cloroprene (Neoprene)  |                                                                                    |                      |                                                                                     |
| 11  | Spring loaded Teflon ring | PTFE                   |                                                                                    |                      |                                                                                     |
| 12  | Bolts                     | Stainless steel        | A2-70                                                                              | A2-70                | Type 308                                                                            |
| 13  | Gasket                    | Fiber, Non-asbestos    |                                                                                    |                      |                                                                                     |
| 14  | Hand wheel                | Steel                  |                                                                                    |                      |                                                                                     |
| 17  | Cap                       | Aluminium              |                                                                                    |                      |                                                                                     |
| 18  | Gasket for cap            | Nylon (PA 6)           |                                                                                    |                      |                                                                                     |
| 19  | Soft backseat             | Teflon (PTFE)          |                                                                                    |                      |                                                                                     |
| 20  | Identification ring       | Stainless steel        |                                                                                    |                      |                                                                                     |
| 22  | Disk spring               | Steel                  |                                                                                    |                      |                                                                                     |

Figure 16: SVA-S 200 (8 in.)

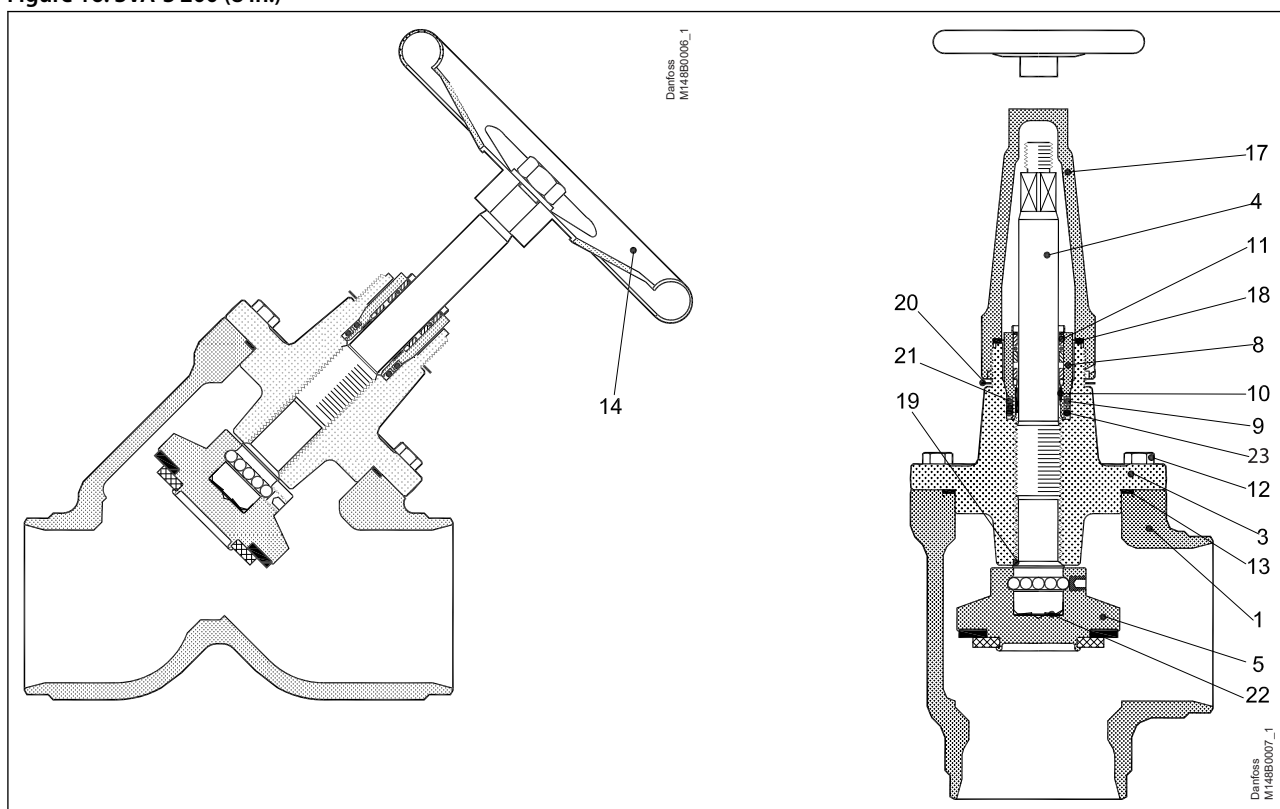


Table 17: Material and parts list

| No. | Part                      | Material                   | EN                                      | ISO                  | ASTM                   |
|-----|---------------------------|----------------------------|-----------------------------------------|----------------------|------------------------|
| 1   | Housing                   | Steel                      | G20Mn5QT<br>10213-3                     |                      | LCC<br>A352            |
| 3   | Valve bonnet              | Steel                      | G20Mn5QT, 10213-3<br>P285QH+QT, 10222-4 |                      | LCC, A352<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  | Spring loaded Teflon ring | PTFE                       |                                         |                      |                        |
| 11  | O-ring                    | Cloroprene (Neoprene)      |                                         |                      |                        |
| 12  | Bolts                     | Stainless steel            | A2-70                                   | A2-70                | Type 308               |
| 13  | Gasket                    | Fiber, Non-asbestos        |                                         |                      |                        |
| 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)              |                                         |                      |                        |
| 22  | Disk spring               | Steel                      |                                         |                      |                        |
| 23  | O-ring                    | PTFE/Cloroprene (Neoprene) |                                         |                      |                        |

## Dimensions and weights

### SVA 6 -10 in angle execution with handwheel

Figure 17: SVA 6 -10 in angle execution with handwheel

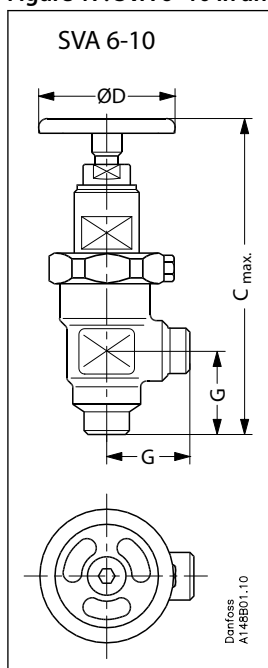


Table 18: SVA 6 -10

| Valve size |     | C <sub>max.</sub> | G    | Ø D  | Weight  |
|------------|-----|-------------------|------|------|---------|
| SVA 6      | mm  | 128               | 30   | 50   | 0.7 kg  |
|            | in. | 5.04              | 1.18 | 1.97 | 1.54 lb |
| SVA 10     | mm  | 173               | 45   | 60   | 1.4 kg  |
|            | in. | 6.81              | 1.77 | 2.36 | 3.08 lb |

**NOTE:**

Specified weights are approximate values only.

## SVA 6 - 10 in angle execution with cap

Figure 18: SVA 6 - 10 in angle execution with cap

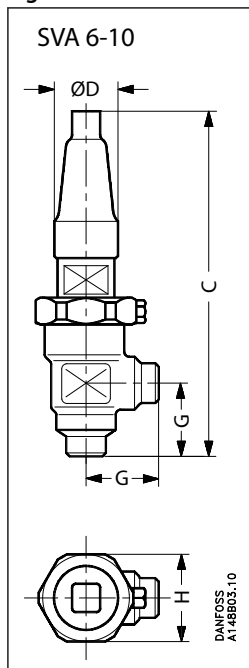


Table 19: SVA 6 - 10

| Valve size |     | C    | G    | ØD   | H    | Weight  |
|------------|-----|------|------|------|------|---------|
| SVA 6      | mm  | 139  | 30   | 30   | 48   | 0.8 kg  |
|            | in. | 5.47 | 1.18 | 1.18 | 1.89 | 1.76 lb |
| SVA 10     | mm  | 182  | 45   | 38   | 60   | 1.4 kg  |
|            | in. | 7.17 | 1.77 | 1.50 | 2.36 | 3.08 lb |

**NOTE:**

Specified weights are approximate values only.

## SVA 6 - 10 in straight-way execution with handwheel / cap

Figure 19: SVA 6 - 10 with handwheel

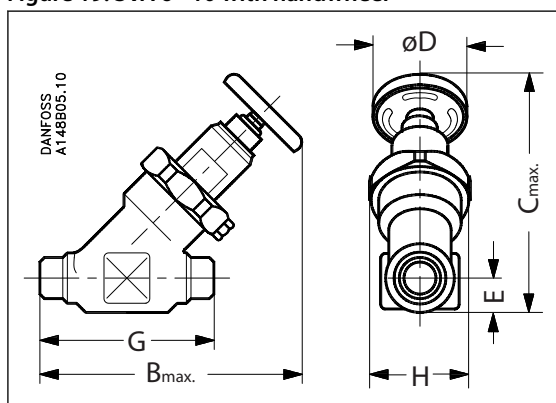


Figure 20: SVA 6 - 10 with cap

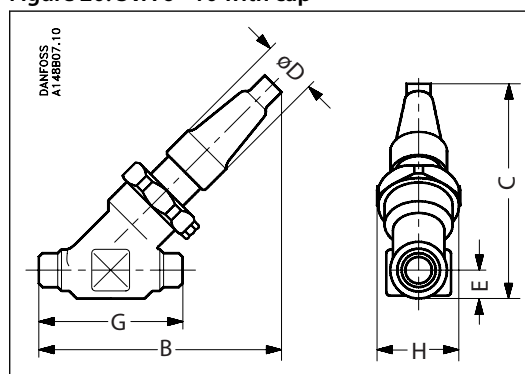


Table 20: SVA 6 - 10 in straight-way execution with handwheel

| Valve size |     | C <sub>max.</sub> | B <sub>max.</sub> | E    | G    | ØD   | H    | Weight  |
|------------|-----|-------------------|-------------------|------|------|------|------|---------|
| SVA 6      | mm  | 110               | 120               | 13   | 70   | 50   | 48   | 0.7 kg  |
|            | in. | 4.33              | 4.72              | 0.49 | 2.76 | 1.97 | 1.89 | 1.54 lb |
| SVA 10     | mm  | 145               | 160               | 20   | 120  | 60   | 60   | 2.0 kg  |
|            | in. | 5.71              | 6.30              | 0.79 | 4.72 | 2.36 | 2.36 | 4.4 lb  |



## Shut-off valve, type SVA-S and SVA-L

**Table 21: SVA 6 - 10 in straight-way execution with cap**

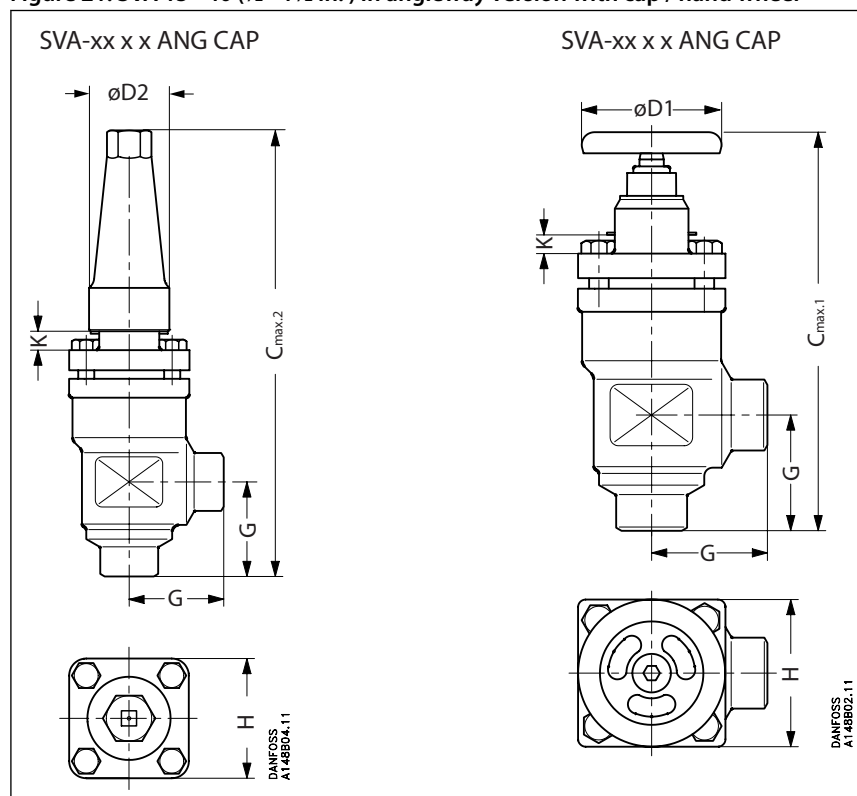
| Valve size |     | C    | B    | E    | G    | Ø D  | H    | Weight  |
|------------|-----|------|------|------|------|------|------|---------|
| SVA 6      | mm  | 110  | 120  | 13   | 70   | 30   | 48   | 0.8 kg  |
|            | in. | 4.33 | 4.72 | 0.49 | 2.76 | 1.16 | 1.89 | 1.76 lb |
| SVA 10     | mm  | 145  | 155  | 20   | 120  | 38   | 60   | 2.0 kg  |
|            | in. | 5.71 | 6.10 | 0.79 | 4.72 | 1.50 | 2.36 | 4.4 lb  |

**NOTE:**

Specified weights are approximate values only.

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

**Figure 21: SVA 15 - 40 (½ - 1½ in.) in angleway version with cap / hand wheel**



**Table 22: SVA-S**

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

**Table 23: SVA-S, Socket weld**

| Valve size                   |     | K    | C <sub>max.1</sub> | C <sub>max.2</sub> | G    | Ø D <sub>1</sub> | Ø D <sub>2</sub> | H    | Weight |
|------------------------------|-----|------|--------------------|--------------------|------|------------------|------------------|------|--------|
| SVA 32 - 40<br>SVA (1¼ - 1½) | mm  | 12   | 241                | 275                | 62   | 80               | 50               | 70   | 2.9 kg |
|                              | in. | 0.47 | 9.49               | 10.83              | 2.44 | 3.15             | 1.97             | 2.76 | 6.4 lb |

**Table 24: SVA-L**

| Valve size                  |     | K    | C <sub>max.1</sub> | C <sub>max.2</sub> | G    | Ø D <sub>1</sub> | Ø D <sub>2</sub> | H    | Weight |
|-----------------------------|-----|------|--------------------|--------------------|------|------------------|------------------|------|--------|
| SVA 15 - 20<br>SVA (½ - ¾)  | mm  | 63   | 237                | 248                | 45   | 60               | 38               | 60   | 1.4 kg |
|                             | in. | 2.48 | 9.33               | 9.76               | 1.77 | 2.36             | 1.5              | 2.36 | 3.1 lb |
| SVA 25 - 40<br>SVA (1 - 1½) | mm  | 74   | 296                | 330                | 55   | 80               | 50               | 70   | 2.4 kg |
|                             | in. | 2.91 | 11.65              | 12.99              | 2.17 | 3.15             | 1.97             | 2.76 | 5.3 lb |

**Table 25: SVA-L, Socket weld**

| Valve size                   |     | K    | C <sub>max.1</sub> | C <sub>max.2</sub> | G    | Ø D <sub>1</sub> | Ø D <sub>2</sub> | H    | Weight |
|------------------------------|-----|------|--------------------|--------------------|------|------------------|------------------|------|--------|
| SVA 32 - 40<br>SVA (1¼ - 1½) | mm  | 74   | 303                | 337                | 62   | 80               | 50               | 70   | 2.9 kg |
|                              | in. | 2.91 | 11.93              | 13.27              | 2.44 | 3.15             | 1.97             | 2.76 | 6.4 lb |

## Shut-off valve, type SVA-S and SVA-L

### NOTE:

Specified weights are approximate values only.

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

Figure 22: SVA-xx x x STR CAP

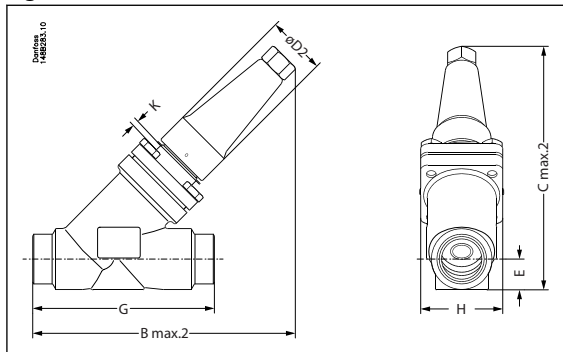


Figure 23: SVA-xx x x STR H-WHEEL

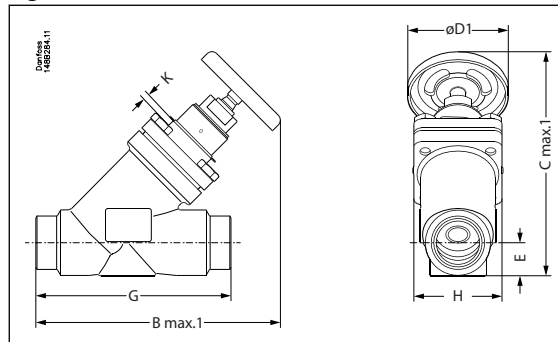


Table 26: SVA-S

| 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 |
|--------------|-----|------|--------------------|--------------------|--------------------|--------------------|------|------|-----------------|-----------------|------|--------|
| SVA 15 - 20  | mm  | 4    | 146                | 141                | 160                | 156                | 20   | 120  | 60              | 38              | 60   | 2.0 kg |
| SVA (½ - ¾)  | in. | 0.16 | 5.74               | 5.55               | 6.30               | 6.14               | 0.79 | 4.72 | 2.36            | 1.5             | 2.36 | 4.4 lb |
| SVA 25 - 40  | mm  | 12   | 199                | 208                | 212                | 222                | 26   | 155  | 80              | 50              | 70   | 3.0 kg |
| SVA (1 - 1½) | in. | 0.47 | 7.83               | 8.19               | 8.35               | 8.74               | 1.02 | 6.10 | 3.15            | 1.97            | 2.76 | 6.6 lb |

Table 27: SVA-S, Socket weld

| 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 |
|------------|-----|------|--------------------|--------------------|--------------------|--------------------|------|------|-----------------|-----------------|------|--------|
| SVA 32     | mm  | 12   | 200                | 209                | 212                | 222                | 27.4 | 155  | 80              | 50              | 70   | 3.0 kg |
| SVA (1¼)   | in. | 0.47 | 7.87               | 8.23               | 8.35               | 8.74               | 1.08 | 6.10 | 3.15            | 1.97            | 2.76 | 6.6 lb |
| SVA 40     | mm  | 12   | 204                | 213                | 212                | 222                | 31.0 | 155  | 80              | 50              | 70   | 3.0 kg |
| SVA (1½)   | in. | 0.47 | 8.03               | 8.39               | 8.35               | 8.74               | 1.22 | 6.10 | 3.15            | 1.97            | 2.76 | 6.6 lb |

Table 28: SVA-L

| 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 |
|--------------|-----|------|--------------------|--------------------|--------------------|--------------------|------|------|-----------------|-----------------|------|--------|
| SVA 15 - 20  | mm  | 63   | 188                | 184                | 202                | 198                | 20   | 120  | 60              | 38              | 60   | 2.0 kg |
| SVA (½ - ¾)  | in. | 2.48 | 7.40               | 7.24               | 7.95               | 7.80               | 0.79 | 4.72 | 2.36            | 1.5             | 2.36 | 4.4 lb |
| SVA 25 - 40  | mm  | 74   | 243                | 252                | 256                | 265                | 26   | 155  | 80              | 50              | 70   | 3.0 kg |
| SVA (1 - 1½) | in. | 2.91 | 9.57               | 9.92               | 10.08              | 10.43              | 1.02 | 6.10 | 3.15            | 1.97            | 2.76 | 6.6 lb |

Table 29: SVA-L, Socket weld

| 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 |
|------------|-----|------|--------------------|--------------------|--------------------|--------------------|------|------|-----------------|-----------------|------|--------|
| SVA 32     | mm  | 74   | 244                | 253                | 256                | 265                | 27.4 | 155  | 80              | 50              | 70   | 3.0 kg |
| SVA (1¼)   | in. | 2.91 | 9.61               | 9.96               | 10.08              | 10.43              | 1.08 | 6.10 | 3.15            | 1.97            | 2.76 | 6.6 lb |
| SVA 40     | mm  | 74   | 248                | 257                | 256                | 265                | 31.0 | 155  | 80              | 50              | 70   | 3.0 kg |
| SVA (1½)   | in. | 2.91 | 9.76               | 10.12              | 10.08              | 10.43              | 1.22 | 6.10 | 3.15            | 1.97            | 2.76 | 6.6 lb |

### NOTE:

Specified weights are approximate values only.

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

Figure 24: SVA-xx x x ANG CAP

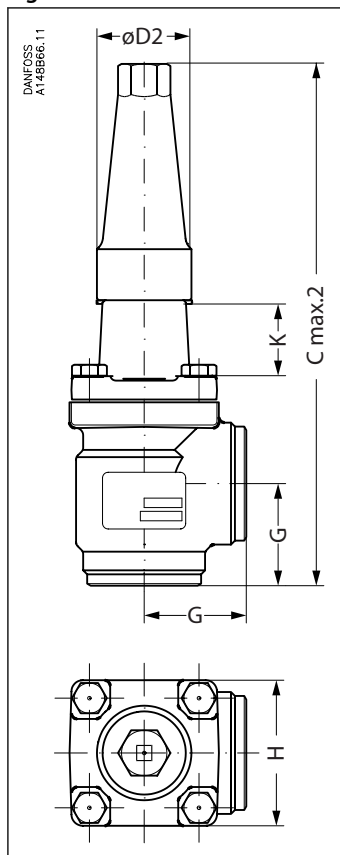


Figure 25: SVA-xx x x ANG H-WHEEL

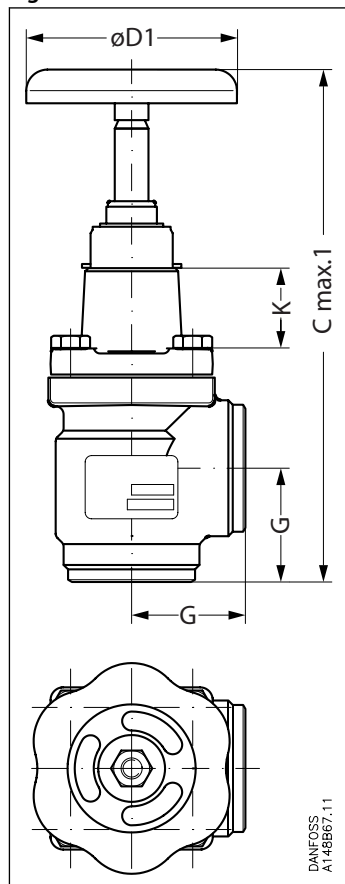


Table 30: SVA-2

| Valve size |     | K    | C <sub>max.1</sub> | C <sub>max.2</sub> | G    | Ø D <sub>1</sub> | Ø D <sub>2</sub> | H    | Weight  |
|------------|-----|------|--------------------|--------------------|------|------------------|------------------|------|---------|
| SVA 50     | mm  | 70   | 284                | 315                | 60   | 100              | 50               | 77   | 3.2 kg  |
| SVA (2)    | in. | 2.76 | 11.18              | 12.40              | 2.36 | 3.94             | 1.97             | 3.03 | 7.1 lb  |
| SVA 65     | mm  | 70   | 310                | 335                | 70   | 100              | 50               | 90   | 4.8 kg  |
| SVA (2½)   | in. | 2.76 | 12.20              | 13.19              | 2.76 | 3.94             | 1.97             | 3.54 | 10.6 lb |

Table 31: SVA-S, Socket weld

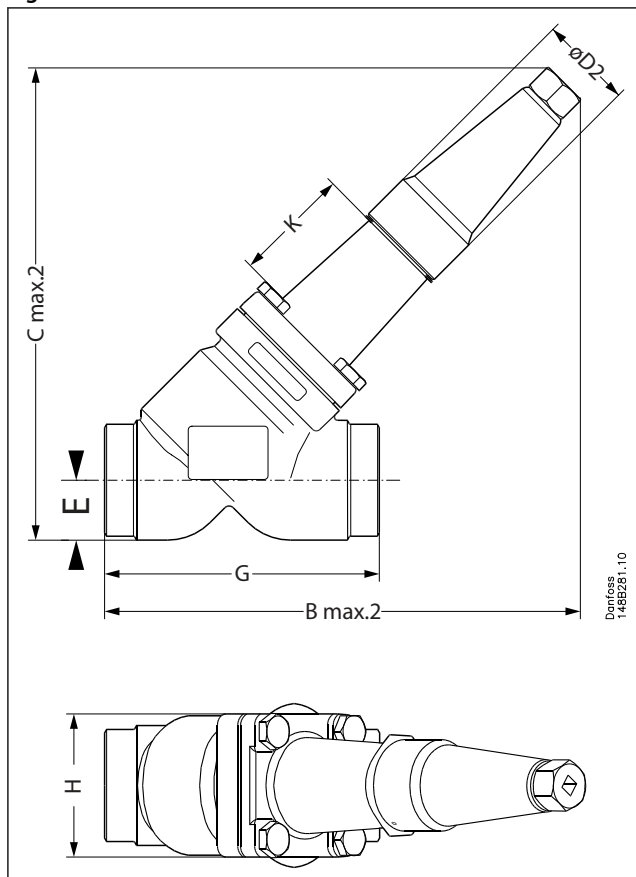
| Valve size |     | K    | C <sub>max.1</sub> | C <sub>max.2</sub> | G    | Ø D <sub>1</sub> | Ø D <sub>2</sub> | H    | Weight |
|------------|-----|------|--------------------|--------------------|------|------------------|------------------|------|--------|
| SVA 50     | mm  | 70   | 289                | 320                | 65   | 100              | 50               | 77   | 4.1 kg |
| SVA (2)    | in. | 2.76 | 11.38              | 12.60              | 2.56 | 3.94             | 1.97             | 3.03 | 9.0 lb |

### NOTE:

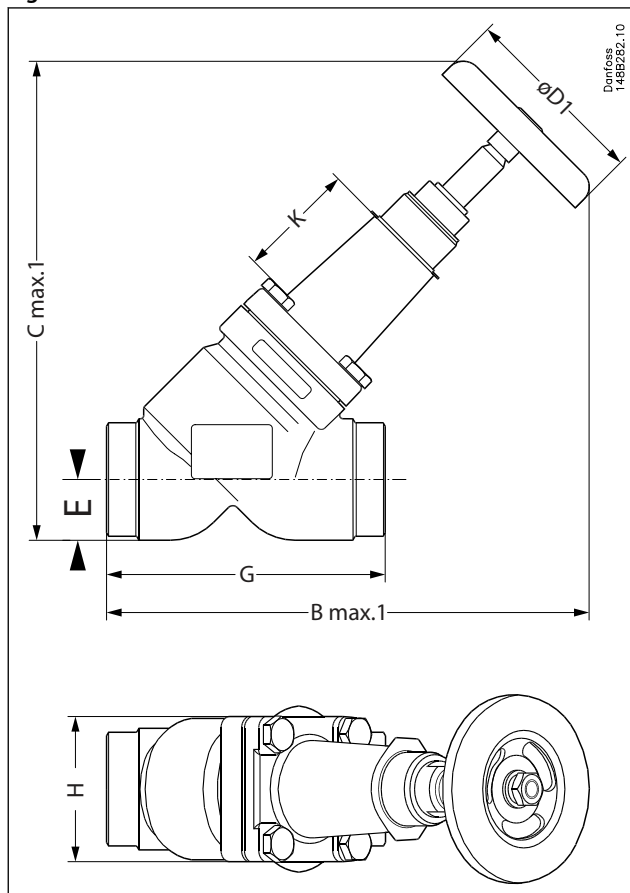
Specified weights are approximate values only.

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

**Figure 26: SVA-xx x x STR CAP**



**Figure 27: SVA-xx x x STR H-WHEEL**



**Table 32: SVA-S**

| 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  |
|------------|-----|------|--------------------|--------------------|--------------------|--------------------|------|------|-----------------|-----------------|------|---------|
| 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  |
| SVA 65     | mm  | 70   | 284                | 280                | 284                | 280                | 40   | 176  | 100             | 50              | 90   | 6.3 kg  |
| SVA (2½)   | in. | 2.76 | 11.18              | 11.02              | 11.18              | 11.02              | 1.57 | 6.93 | 3.94            | 1.97            | 3.54 | 13.9 lb |

**Table 33: SVA-S, Socket weld**

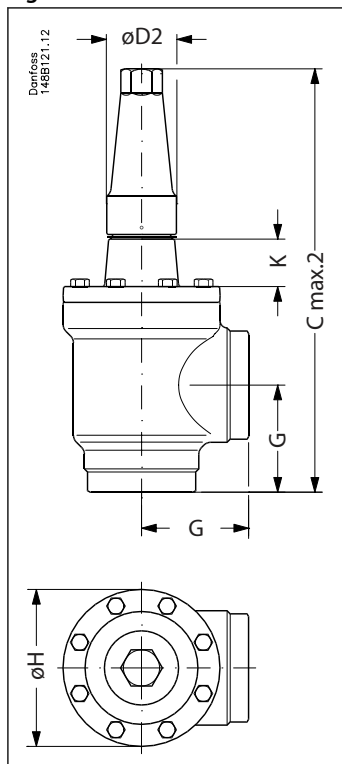
| Valve size |     | K    | B <sub>max.1</sub> | B <sub>max.2</sub> | C <sub>max.1</sub> | C <sub>max.2</sub> | E    | G    | ØD <sub>1</sub> | ØD <sub>2</sub> | H    | Weight  |
|------------|-----|------|--------------------|--------------------|--------------------|--------------------|------|------|-----------------|-----------------|------|---------|
| SVA 50     | mm  | 70   | 266                | 266                | 261                | 261                | 37   | 162  | 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 |

**NOTE:**

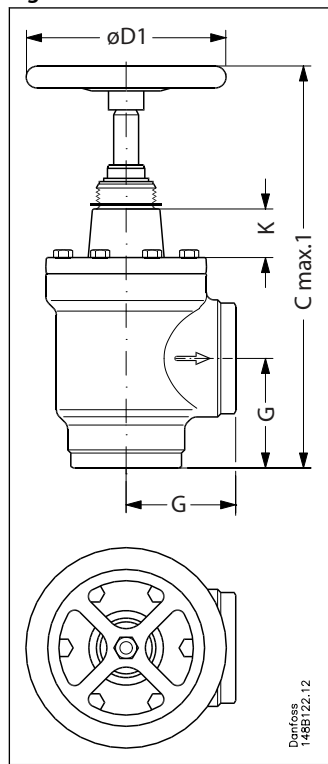
Specified weights are approximate values only.

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

**Figure 28: SVA-xx x x ANG CAP**



**Figure 29: SVA-xx x x ANG H-WHEEL**



**Table 34: SVA-S**

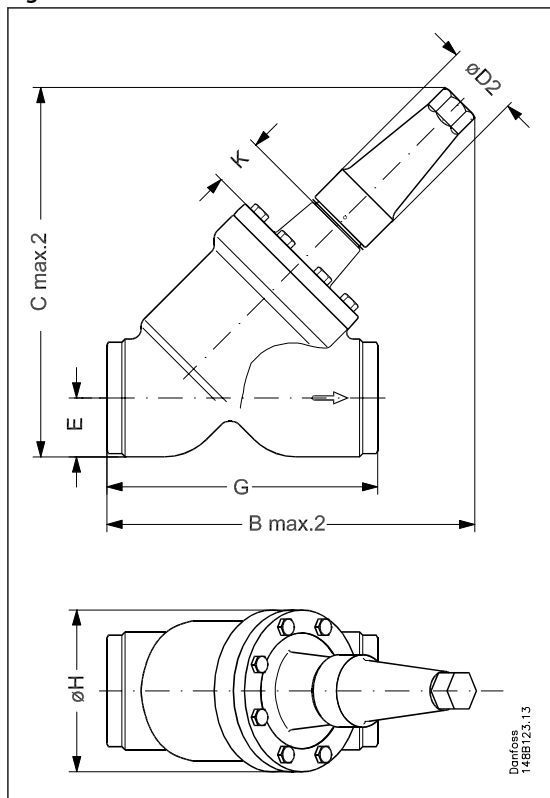
| Valve size |     | K    | $C_{max.1}$ | $C_{max.2}$ | G    | $\varnothing D_1$ | $\varnothing D_2$ | $\varnothing H$ | Weight   |
|------------|-----|------|-------------|-------------|------|-------------------|-------------------|-----------------|----------|
| SVA 80     | mm  | 76   | 373         | 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   | 677         | 678         | 180  | 400               | 86                | 276             | 79.5 kg  |
| SVA (8)    | in. | 3.54 | 26.63       | 26.69       | 7.09 | 15.75             | 3.39              | 10.87           | 175.3 lb |

**NOTE:**

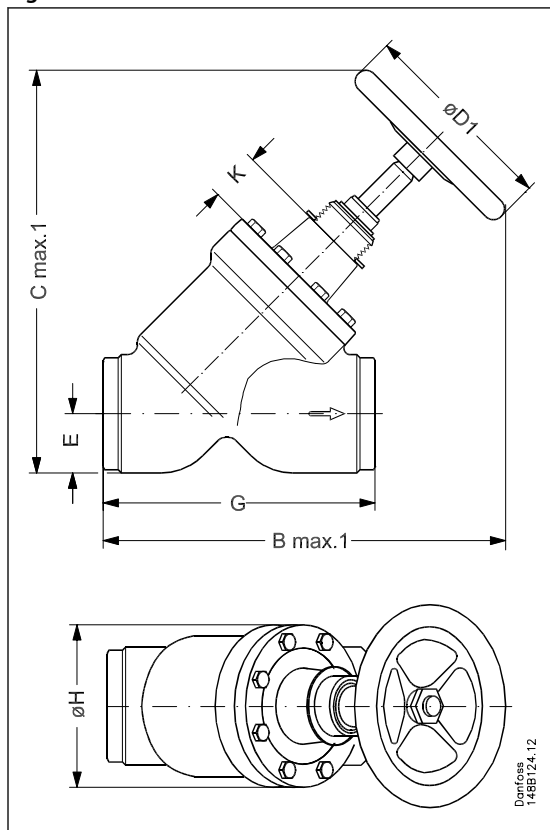
Specified weights are approximate values only.

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

**Figure 30: SVA-xx x x STR CAP**



**Figure 31: SVA-xx x x STR H-WHEEL**



**Table 35: SVA-S**

| 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> | ØH    | Weight   |
|------------|-----|------|--------------------|--------------------|--------------------|--------------------|------|-------|-----------------|-----------------|-------|----------|
| SVA 80     | mm  | 76   | 365                | 321                | 367                | 322                | 48   | 216   | 200             | 58              | 129   | 10.9 kg  |
| SVA (3)    | in. | 3.00 | 14.37              | 12.64              | 14.45              | 12.72              | 1.89 | 8.50  | 7.87            | 2.28            | 5.08  | 24.0 lb  |
| SVA 100    | mm  | 90   | 435                | 367                | 443                | 375                | 60   | 264   | 250             | 58              | 156   | 18.2 kg  |
| SVA (4)    | in. | 3.54 | 17.13              | 14.45              | 17.44              | 14.76              | 2.36 | 10.39 | 9.84            | 2.28            | 6.14  | 40.1 lb  |
| SVA 125    | mm  | 90   | 526                | 444                | 538                | 456                | 74   | 322   | 315             | 74              | 193   | 32.8 kg  |
| SVA (5)    | in. | 3.54 | 20.71              | 17.48              | 21.18              | 17.95              | 2.91 | 12.68 | 12.40           | 2.91            | 7.60  | 72.3 lb  |
| SVA 150    | mm  | 90   | 572                | 483                | 594                | 505                | 91   | 370   | 315             | 74              | 219   | 60.0 kg  |
| SVA (6)    | in. | 3.54 | 22.52              | 19.02              | 23.39              | 19.88              | 3.58 | 14.57 | 12.40           | 2.91            | 8.62  | 132.3 lb |
| SVA 200    | mm  | 90   | 692                | 579                | 726                | 613                | 117  | 464   | 400             | 86              | 276   | 111.5 kg |
| SVA (8)    | in. | 3.54 | 27.24              | 22.80              | 28.58              | 24.13              | 4.61 | 18.27 | 15.75           | 3.39            | 10.87 | 245.8 lb |

**NOTE:**

Specified weights are approximate values only.

## Shut-off valve, type SVA-S and SVA-L

### Ordering

Available connection sizes

**SVA-S:**

The **S** means Standard bonnet length (sizes from DN50 to DN200 are insulation friendly)

**SVA-L:**

The **L** means Long bonnet length (insulation friendly)

**Table 36: Connection sizes**

| Size | SVA-S | SVA-L |
|------|-------|-------|
| 6    | x     |       |
| 10   | x     |       |
| 15   | x     | x     |
| 20   | x     | x     |
| 25   | x     | x     |
| 32   | x     | x     |
| 40   | x     | x     |
| 50   | x     |       |
| 65   | x     |       |
| 80   | x     |       |
| 100  | x     |       |
| 125  | x     |       |
| 150  | x     |       |
| 200  | x     |       |

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.

**Table 37: Type codes**

| Valve type                                                                   | SVA            | Shut-off valve                                                                                                                                     |     |   |     |                  |     |   |
|------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|------------------|-----|---|
| Nominal size in mm<br>(valve size measured<br>on the connection<br>diameter) |                | Available connections                                                                                                                              |     |   |     |                  |     |   |
|                                                                              |                |                                                                                                                                                    | A/D | G | SOC |                  | FPT | T |
|                                                                              | 6              | DN 6 (¼)                                                                                                                                           | x   |   |     |                  |     | x |
|                                                                              | 10             | DN 10 (⅜)                                                                                                                                          | x   | x |     |                  |     |   |
|                                                                              | 15             | DN 15 (½)                                                                                                                                          | x   | x | x   |                  | x   |   |
|                                                                              | 20             | DN 20 (¾)                                                                                                                                          | x   | x | x   | x <sup>(1)</sup> | x   |   |
|                                                                              | 25             | DN 25 (1)                                                                                                                                          | x   | x | x   |                  | x   |   |
|                                                                              | 32             | DN 32 (1¼)                                                                                                                                         | x   | x | x   |                  | x   |   |
|                                                                              | 40             | DN 40 (1½)                                                                                                                                         | x   | x | x   |                  |     |   |
|                                                                              | 50             | DN 50 (2)                                                                                                                                          | x   | x | x   |                  |     |   |
|                                                                              | 65             | DN 65 (2½)                                                                                                                                         | x   |   |     |                  |     |   |
|                                                                              | 80             | DN 80 (3)                                                                                                                                          | x   |   |     |                  |     |   |
|                                                                              | 100            | DN 100 (4)                                                                                                                                         | x   | x |     |                  |     |   |
|                                                                              | 125            | DN 125 (5)                                                                                                                                         | x   | x |     |                  |     |   |
|                                                                              | 150            | DN 150 (6)                                                                                                                                         | x   | x |     |                  |     |   |
|                                                                              | 200            | DN 200 (8)                                                                                                                                         | x   |   |     |                  |     |   |
| Connections                                                                  | A              | Butt-weld connection: ANSI B 36.10 schedule 80, DN 15 - 40 (½ - 1½ in.)<br>Butt-weld connection: ANSI B 36.10 schedule 40, DN 50 - 200 (2 - 8 in.) |     |   |     |                  |     |   |
|                                                                              | D              | Butt-weld connection: DIN EN 10220                                                                                                                 |     |   |     |                  |     |   |
|                                                                              | G              | Butt-weld connection: GOST (8734-75 and 8732-78)                                                                                                   |     |   |     |                  |     |   |
|                                                                              | SOC            | Socket weld: ANSI B 16.11                                                                                                                          |     |   |     |                  |     |   |
|                                                                              | FPT            | Female Pipe Thread NPT: ANSI/ASME B 1.20.1                                                                                                         |     |   |     |                  |     |   |
|                                                                              | T              | Outside threaded connections ISO 228/1 Pipe thread                                                                                                 |     |   |     |                  |     |   |
| Valve housing                                                                | ANG<br>STR     | Angle flow<br>Straight flow                                                                                                                        |     |   |     |                  |     |   |
| Other equipment                                                              | H-WHEEL<br>CAP | Hand wheel<br>Cap                                                                                                                                  |     |   |     |                  |     |   |

## Shut-off valve, type SVA-S and SVA-L

<sup>(1)</sup> Special combination SOC-inlet, FPT outlet

### ❗ 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 SVA-S complete valves

### Example:

SVA-S 20 DIN angleway with hand wheel = 148B5300

### ❗ 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.

**Table 38: SVA-S Angleway - Butt-weld DIN (EN 10220)**

| Size |     | Type                    | MWP |     | Code number |
|------|-----|-------------------------|-----|-----|-------------|
| mm   | in. |                         | bar | psi |             |
| 6    | ¼   | SVA-S 6 D ANG H-WHEEL   | 52  | 754 | 148B5000    |
| 6    | ¼   | SVA-S 6 D ANG CAP       | 52  | 754 | 148B5001    |
| 10   | ⅜   | SVA-S 10 D ANG H-WHEEL  | 52  | 754 | 148B5100    |
| 10   | ⅜   | SVA-S 10 D ANG CAP      | 52  | 754 | 148B5101    |
| 15   | ½   | SVA-S 15 D ANG H-WHEEL  | 52  | 754 | 148B5200    |
| 15   | ½   | SVA-S 15 D ANG CAP      | 52  | 754 | 148B5201    |
| 20   | ¾   | SVA-S 20 D ANG H-WHEEL  | 52  | 754 | 148B5300    |
| 20   | ¾   | SVA-S 20 D ANG CAP      | 52  | 754 | 148B5301    |
| 25   | 1   | SVA-S 25 D ANG H-WHEEL  | 52  | 754 | 148B5400    |
| 25   | 1   | SVA-S 25 D ANG CAP      | 52  | 754 | 148B5401    |
| 32   | 1¼  | SVA-S 32 D ANG H-WHEEL  | 52  | 754 | 148B5500    |
| 32   | 1¼  | SVA-S 32 D ANG CAP      | 52  | 754 | 148B5501    |
| 40   | 1½  | SVA-S 40 D ANG H-WHEEL  | 52  | 754 | 148B5600    |
| 40   | 1½  | SVA-S 40 D ANG CAP      | 52  | 754 | 148B5601    |
| 50   | 2   | SVA-S 50 D ANG H-WHEEL  | 52  | 754 | 148B5700    |
| 50   | 2   | SVA-S 50 D ANG CAP      | 52  | 754 | 148B5701    |
| 65   | 2½  | SVA-S 65 D ANG H-WHEEL  | 52  | 754 | 148B5800    |
| 65   | 2½  | SVA-S 65 D ANG CAP      | 52  | 754 | 148B5801    |
| 80   | 3   | SVA-S 80 D ANG H-WHEEL  | 52  | 754 | 148B5900    |
| 80   | 3   | SVA-S 80 D ANG CAP      | 52  | 754 | 148B5901    |
| 100  | 4   | SVA-S 100 D ANG H-WHEEL | 52  | 754 | 148B6000    |
| 100  | 4   | SVA-S 100 D ANG CAP     | 52  | 754 | 148B6001    |
| 125  | 5   | SVA-S 125 D ANG H-WHEEL | 52  | 754 | 148B6100    |
| 125  | 5   | SVA-S 125 D ANG CAP     | 52  | 754 | 148B6101    |
| 150  | 6   | SVA-S 150 D ANG H-WHEEL | 52  | 754 | 148B6200    |
| 150  | 6   | SVA-S 150 D ANG CAP     | 52  | 754 | 148B6201    |
| 200  | 8   | SVA-S 200 D ANG H-WHEEL | 52  | 754 | 148B6300    |
| 200  | 8   | SVA-S 200 D ANG CAP     | 52  | 754 | 148B6301    |

**Table 39: SVA-S Straightway - Butt-weld DIN (EN 10220)**

| Size |     | Type                   | MWP |     | Code number |
|------|-----|------------------------|-----|-----|-------------|
| mm   | in. |                        | bar | psi |             |
| 6    | ¼   | SVA-S 6 D STR H-WHEEL  | 52  | 754 | 148B5010    |
| 6    | ¼   | SVA-S 6 D STR CAP      | 52  | 754 | 148B5011    |
| 10   | ⅜   | SVA-S 10 D STR H-WHEEL | 52  | 754 | 148B5110    |
| 10   | ⅜   | SVA-S 10 D STR CAP     | 52  | 754 | 148B5111    |
| 15   | ½   | SVA-S 15 D STR H-WHEEL | 52  | 754 | 148B5210    |
| 15   | ½   | SVA-S 15 D STR CAP     | 52  | 754 | 148B5211    |
| 20   | ¾   | SVA-S 20 D STR H-WHEEL | 52  | 754 | 148B5310    |
| 20   | ¾   | SVA-S 20 D STR CAP     | 52  | 754 | 148B5311    |
| 25   | 1   | SVA-S 25 D STR H-WHEEL | 52  | 754 | 148B5410    |
| 25   | 1   | SVA-S 25 D STR CAP     | 52  | 754 | 148B5411    |



## Shut-off valve, type SVA-S and SVA-L

| Size |     | Type                    | MWP |     | Code number |
|------|-----|-------------------------|-----|-----|-------------|
| mm   | in. |                         | bar | psi |             |
| 32   | 1¼  | SVA-S 32 D STR H-WHEEL  | 52  | 754 | 148B5510    |
| 32   | 1¼  | SVA-S 32 D STR CAP      | 52  | 754 | 148B5511    |
| 40   | 1½  | SVA-S 40 D STR H-WHEEL  | 52  | 754 | 148B5610    |
| 40   | 1½  | SVA-S 40 D STR CAP      | 52  | 754 | 148B5611    |
| 50   | 2   | SVA-S 50 D STR H-WHEEL  | 52  | 754 | 148B5710    |
| 50   | 2   | SVA-S 50 D STR CAP      | 52  | 754 | 148B5711    |
| 65   | 2½  | SVA-S 65 D STR H-WHEEL  | 52  | 754 | 148B5810    |
| 65   | 2½  | SVA-S 65 D STR CAP      | 52  | 754 | 148B5811    |
| 80   | 3   | SVA-S 80 D STR H-WHEEL  | 52  | 754 | 148B5910    |
| 80   | 3   | SVA-S 80 D STR CAP      | 52  | 754 | 148B5911    |
| 100  | 4   | SVA-S 100 D STR H-WHEEL | 52  | 754 | 148B6010    |
| 100  | 4   | SVA-S 100 D STR CAP     | 52  | 754 | 148B6011    |
| 125  | 5   | SVA-S 125 D STR H-WHEEL | 52  | 754 | 148B6110    |
| 125  | 5   | SVA-S 125 D STR CAP     | 52  | 754 | 148B6111    |
| 150  | 6   | SVA-S 150 D STR H-WHEEL | 52  | 754 | 148B6210    |
| 150  | 6   | SVA-S 150 D STR CAP     | 52  | 754 | 148B6211    |
| 200  | 8   | SVA-S 200 D STR H-WHEEL | 52  | 754 | 148B6310    |
| 200  | 8   | SVA-S 200 D STR CAP     | 52  | 754 | 148B6311    |

Table 40: SVA-S Angleway - Butt-weld ANSI (B 36.10 Schedule 80)

| Size |     | Type                   | MWP |     | Code number |
|------|-----|------------------------|-----|-----|-------------|
| mm   | in. |                        | bar | psi |             |
| 6    | ¼   | SVA-S 6 A ANG H-WHEEL  | 52  | 754 | 148B5020    |
| 6    | ¼   | SVA-S 6 A ANG CAP      | 52  | 754 | 148B5021    |
| 10   | ⅜   | SVA-S 10 A ANG H-WHEEL | 52  | 754 | 148B5120    |
| 10   | ⅜   | SVA-S 10 A ANG CAP     | 52  | 754 | 148B5121    |
| 15   | ½   | SVA-S 15 A ANG H-WHEEL | 52  | 754 | 148B5220    |
| 15   | ½   | SVA-S 15 A ANG CAP     | 52  | 754 | 148B5221    |
| 20   | ¾   | SVA-S 20 A ANG H-WHEEL | 52  | 754 | 148B5320    |
| 20   | ¾   | SVA-S 20 A ANG CAP     | 52  | 754 | 148B5321    |
| 25   | 1   | SVA-S 25 A ANG H-WHEEL | 52  | 754 | 148B5420    |
| 25   | 1   | SVA-S 25 A ANG CAP     | 52  | 754 | 148B5421    |
| 32   | 1¼  | SVA-S 32 A ANG H-WHEEL | 52  | 754 | 148B5520    |
| 32   | 1¼  | SVA-S 32 A ANG CAP     | 52  | 754 | 148B5521    |
| 40   | 1½  | SVA-S 40 A ANG H-WHEEL | 52  | 754 | 148B5620    |
| 40   | 1½  | SVA-S 40 A ANG CAP     | 52  | 754 | 148B5621    |

Table 41: SVA-S Straightway - Butt-weld ANSI (B 36.10 Schedule 80)

| Size |     | Type                   | MWP |     | Code number |
|------|-----|------------------------|-----|-----|-------------|
| mm   | in. |                        | bar | psi |             |
| 6    | ¼   | SVA-S 6 A STR H-WHEEL  | 52  | 754 | 148B5030    |
| 6    | ¼   | SVA-S 6 A STR CAP      | 52  | 754 | 148B5031    |
| 10   | ⅜   | SVA-S 10 A STR H-WHEEL | 52  | 754 | 148B5130    |
| 10   | ⅜   | SVA-S 10 A STR CAP     | 52  | 754 | 148B5131    |
| 15   | ½   | SVA-S 15 A STR H-WHEEL | 52  | 754 | 148B5230    |
| 15   | ½   | SVA-S 15 A STR CAP     | 52  | 754 | 148B5231    |
| 20   | ¾   | SVA-S 20 A STR H-WHEEL | 52  | 754 | 148B5330    |
| 20   | ¾   | SVA-S 20 A STR CAP     | 52  | 754 | 148B5331    |
| 25   | 1   | SVA-S 25 A STR H-WHEEL | 52  | 754 | 148B5430    |
| 25   | 1   | SVA-S 25 A STR CAP     | 52  | 754 | 148B5431    |
| 32   | 1¼  | SVA-S 32 A STR H-WHEEL | 52  | 754 | 148B5530    |
| 32   | 1¼  | SVA-S 32 A STR CAP     | 52  | 754 | 148B5531    |
| 40   | 1½  | SVA-S 40 A STR H-WHEEL | 52  | 754 | 148B5630    |
| 40   | 1½  | SVA-S 40 A STR CAP     | 52  | 754 | 148B5631    |

## Shut-off valve, type SVA-S and SVA-L

**Table 42: SVA-S Angleway - Butt-weld ANSI (B 36.10 Schedule 40)**

| Size |     | Type                    | MWP |     | Code number |
|------|-----|-------------------------|-----|-----|-------------|
| mm   | in. |                         | bar | psi |             |
| 50   | 2   | SVA-S 50 A ANG H-WHEEL  | 52  | 754 | 14885720    |
| 50   | 2   | SVA-S 50 A ANG CAP      | 52  | 754 | 14885721    |
| 65   | 2½  | SVA-S 65 A ANG H-WHEEL  | 52  | 754 | 14885820    |
| 65   | 2½  | SVA-S 65 A ANG CAP      | 52  | 754 | 14885821    |
| 80   | 3   | SVA-S 80 A ANG H-WHEEL  | 52  | 754 | 14885920    |
| 80   | 3   | SVA-S 80 A ANG CAP      | 52  | 754 | 14885921    |
| 100  | 4   | SVA-S 100 A ANG H-WHEEL | 52  | 754 | 14886020    |
| 100  | 4   | SVA-S 100 A ANG CAP     | 52  | 754 | 14886021    |
| 125  | 5   | SVA-S 125 A ANG H-WHEEL | 52  | 754 | 14886120    |
| 125  | 5   | SVA-S 125 A ANG CAP     | 52  | 754 | 14886121    |
| 150  | 6   | SVA-S 150 A ANG H-WHEEL | 52  | 754 | 14886220    |
| 150  | 6   | SVA-S 150 A ANG CAP     | 52  | 754 | 14886221    |
| 200  | 8   | SVA-S 200 A ANG H-WHEEL | 52  | 754 | 14886320    |
| 200  | 8   | SVA-S 200 A ANG CAP     | 52  | 754 | 14886321    |

**Table 43: SVA-S Straightway - Butt-weld ANSI (B 36.10 Schedule 40)**

| Size |     | Type                    | MWP |     | Code number |
|------|-----|-------------------------|-----|-----|-------------|
| mm   | in. |                         | bar | psi |             |
| 50   | 2   | SVA-S 50 A STR H-WHEEL  | 52  | 754 | 14885730    |
| 50   | 2   | SVA-S 50 A STR CAP      | 52  | 754 | 14885731    |
| 65   | 2½  | SVA-S 65 A STR H-WHEEL  | 52  | 754 | 14885830    |
| 65   | 2½  | SVA-S 65 A STR CAP      | 52  | 754 | 14885831    |
| 80   | 3   | SVA-S 80 A STR H-WHEEL  | 52  | 754 | 14885930    |
| 80   | 3   | SVA-S 80 A STR CAP      | 52  | 754 | 14885931    |
| 100  | 4   | SVA-S 100 A STR H-WHEEL | 52  | 754 | 14886030    |
| 100  | 4   | SVA-S 100 A STR CAP     | 52  | 754 | 14886031    |
| 125  | 5   | SVA-S 125 A STR H-WHEEL | 52  | 754 | 14886130    |
| 125  | 5   | SVA-S 125 A STR CAP     | 52  | 754 | 14886131    |
| 150  | 6   | SVA-S 150 A STR H-WHEEL | 52  | 754 | 14886230    |
| 150  | 6   | SVA-S 150 A STR CAP     | 52  | 754 | 14886231    |
| 200  | 8   | SVA-S 200 A STR H-WHEEL | 52  | 754 | 14886330    |
| 200  | 8   | SVA-S 200 A STR CAP     | 52  | 754 | 14886331    |

**Table 44: SVA-S Angleway - Butt-weld, GOST**

| Size |     | Type                    | MWP |     | Code number |
|------|-----|-------------------------|-----|-----|-------------|
| mm   | in. |                         | bar | psi |             |
| 150  | 6   | SVA-S 150 G ANG H-WHEEL | 52  | 754 | 14886240    |
| 150  | 6   | SVA-S 150 G ANG CAP     | 52  | 754 | 14886241    |

**Table 45: SVA-S Straightway - Butt-weld, GOST**

| Size |     | Type                    | MWP |     | Code number |
|------|-----|-------------------------|-----|-----|-------------|
| mm   | in. |                         | bar | psi |             |
| 150  | 6   | SVA-S 150 G STR H-WHEEL | 52  | 754 | 14886250    |
| 150  | 6   | SVA-S 150 G STR CAP     | 52  | 754 | 14886251    |

**Table 46: SVA-S Angleway - Socket welding ANSI (B 16.11)**

| Size |     | Type                     | MWP |     | Code number |
|------|-----|--------------------------|-----|-----|-------------|
| mm   | in. |                          | bar | psi |             |
| 15   | ½   | SVA-S 15 SOC ANG H-WHEEL | 52  | 754 | 14885222    |
| 15   | ½   | SVA-S 15 SOC ANG CAP     | 52  | 754 | 14885223    |
| 20   | ¾   | SVA-S 20 SOC ANG H-WHEEL | 52  | 754 | 14885322    |
| 20   | ¾   | SVA-S 20 SOC ANG CAP     | 52  | 754 | 14885323    |
| 25   | 1   | SVA-S 25 SOC ANG H-WHEEL | 52  | 754 | 14885422    |
| 25   | 1   | SVA-S 25 SOC ANG CAP     | 52  | 754 | 14885423    |
| 32   | 1¼  | SVA-S 32 SOC ANG H-WHEEL | 52  | 754 | 14885522    |
| 32   | 1¼  | SVA-S 32 SOC ANG CAP     | 52  | 754 | 14885523    |
| 40   | 1½  | SVA-S 40 SOC ANG H-WHEEL | 52  | 754 | 14885622    |

## Shut-off valve, type SVA-S and SVA-L

| Size |     | Type                     | MWP |     | Code number |
|------|-----|--------------------------|-----|-----|-------------|
| mm   | in. |                          | bar | psi |             |
| 40   | 1½  | SVA-S 40 SOC ANG CAP     | 52  | 754 | 148B5623    |
| 50   | 2   | SVA-S 50 SOC ANG H-WHEEL | 52  | 754 | 148B5722    |
| 50   | 2   | SVA-S 50 SOC ANG CAP     | 52  | 754 | 148B5723    |

**Table 47: SVA-S Straightway - Socket welding ANSI (B 16.11)**

| Size |     | Type                     | MWP |     | Code number |
|------|-----|--------------------------|-----|-----|-------------|
| mm   | in. |                          | bar | psi |             |
| 15   | ½   | SVA-S 15 SOC STR H-WHEEL | 52  | 754 | 148B5232    |
| 15   | ½   | SVA-S 15 SOC STR CAP     | 52  | 754 | 148B5233    |
| 20   | ¾   | SVA-S 20 SOC STR H-WHEEL | 52  | 754 | 148B5332    |
| 20   | ¾   | SVA-S 20 SOC STR CAP     | 52  | 754 | 148B5333    |
| 25   | 1   | SVA-S 25 SOC STR H-WHEEL | 52  | 754 | 148B5432    |
| 25   | 1   | SVA-S 25 SOC STR CAP     | 52  | 754 | 148B5433    |
| 32   | 1¼  | SVA-S 32 SOC STR H-WHEEL | 52  | 754 | 148B5532    |
| 32   | 1¼  | SVA-S 32 SOC STR CAP     | 52  | 754 | 148B5533    |
| 40   | 1½  | SVA-S 40 SOC STR H-WHEEL | 52  | 754 | 148B5632    |
| 40   | 1½  | SVA-S 40 SOC STR CAP     | 52  | 754 | 148B5633    |
| 50   | 2   | SVA-S 50 SOC STR H-WHEEL | 52  | 754 | 148B5732    |
| 50   | 2   | SVA-S 50 SOC STR CAP     | 52  | 754 | 148B5733    |

**Table 48: SVA-S Angleway - FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1)**

| Size |     | Type                     | MWP |     | Code number |
|------|-----|--------------------------|-----|-----|-------------|
| mm   | in. |                          | bar | psi |             |
| 15   | ½   | SVA-S 15 FPT ANG H-WHEEL | 52  | 754 | 148B5224    |
| 15   | ½   | SVA-S 15 FPT ANG CAP     | 52  | 754 | 148B5225    |
| 20   | ¾   | SVA-S 20 FPT ANG H-WHEEL | 52  | 754 | 148B5324    |
| 20   | ¾   | SVA-S 20 FPT ANG CAP     | 52  | 754 | 148B5325    |
| 25   | 1   | SVA-S 25 FPT ANG H-WHEEL | 52  | 754 | 148B5424    |
| 25   | 1   | SVA-S 25 FPT ANG CAP     | 52  | 754 | 148B5425    |
| 32   | 1¼  | SVA-S 32 FPT ANG H-WHEEL | 52  | 754 | 148B5524    |
| 32   | 1¼  | SVA-S 32 FPT ANG CAP     | 52  | 754 | 148B5525    |

**Table 49: SVA-S Straightway - FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1)**

| Size |     | Type                     | MWP |     | Code number |
|------|-----|--------------------------|-----|-----|-------------|
| mm   | in. |                          | bar | psi |             |
| 15   | ½   | SVA-S 15 FPT STR H-WHEEL | 52  | 754 | 148B5234    |
| 15   | ½   | SVA-S 15 FPT STR CAP     | 52  | 754 | 148B5235    |
| 20   | ¾   | SVA-S 20 FPT STR H-WHEEL | 52  | 754 | 148B5334    |
| 20   | ¾   | SVA-S 20 FPT STR CAP     | 52  | 754 | 148B5335    |
| 25   | 1   | SVA-S 25 FPT STR H-WHEEL | 52  | 754 | 148B5434    |
| 25   | 1   | SVA-S 25 FPT STR CAP     | 52  | 754 | 148B5435    |
| 32   | 1¼  | SVA-S 32 FPT STR H-WHEEL | 52  | 754 | 148B5534    |
| 32   | 1¼  | SVA-S 32 FPT STR CAP     | 52  | 754 | 148B5535    |

**Table 50: SVA-S Angleway - T outside pipe thread, (ISO 228/1)**

| Size |     | Type              | MWP |     | Code number |
|------|-----|-------------------|-----|-----|-------------|
| mm   | in. |                   | bar | psi |             |
| 6    | ¼   | SVA-S 6 T ANG CAP | 52  | 754 | 148B5032    |

**Table 51: SVA-S Straightway - Socket welding ANSI (B 16.11) inlet, FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1) outlet**

| Size |     | Type                         | MWP |     | Code number |
|------|-----|------------------------------|-----|-----|-------------|
| mm   | in. |                              | bar | psi |             |
| 20   | ¾   | SVA-S 20 SOC/FPT STR H-WHEEL | 52  | 754 | 148B6790    |
| 20   | ¾   | SVA-S 20 SOC/FPT STR CAP     | 52  | 754 | 148B6792    |

## Shut-off valve, type SVA-S and SVA-L

**Table 52: SVA-S Angleway - Socket welding ANSI (B 16.11) inlet, FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1) outlet**

| Size |     | Type                         | MWP |     | Code number |
|------|-----|------------------------------|-----|-----|-------------|
| mm   | in. |                              | bar | psi |             |
| 20   | ¾   | SVA-S 20 SOC/FPT ANG H-WHEEL | 52  | 754 | 148B6789    |
| 20   | ¾   | SVA-S 20 SOC/FPT ANG CAP     | 52  | 754 | 148B6791    |

**ANG** = Angleway

**STR** = Straightway

**CAP** = Cap

**H-WHEEL** = Hand wheel

## Ordering SVA-L complete valves

### Example:

SVA-L 20 DIN angleway with hand wheel = 148B5340

### ! 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.

**Table 53: SVA-L Angleway - Butt-weld DIN (EN 10220)**

| Size |     | Type                   | MWP |     | Code number |
|------|-----|------------------------|-----|-----|-------------|
| mm   | in. |                        | bar | psi |             |
| 15   | ½   | SVA-L 15 D ANG H-WHEEL | 52  | 754 | 148B5240    |
| 15   | ½   | SVA-L 15 D ANG CAP     | 52  | 754 | 148B5241    |
| 20   | ¾   | SVA-L 20 D ANG H-WHEEL | 52  | 754 | 148B5340    |
| 20   | ¾   | SVA-L 20 D ANG CAP     | 52  | 754 | 148B5341    |
| 25   | 1   | SVA-L 25 D ANG H-WHEEL | 52  | 754 | 148B5440    |
| 25   | 1   | SVA-L 25 D ANG CAP     | 52  | 754 | 148B5441    |
| 32   | 1¼  | SVA-L 32 D ANG H-WHEEL | 52  | 754 | 148B5540    |
| 32   | 1¼  | SVA-L 32 D ANG CAP     | 52  | 754 | 148B5541    |
| 40   | 1½  | SVA-L 40 D ANG H-WHEEL | 52  | 754 | 148B5640    |
| 40   | 1½  | SVA-L 40 D ANG CAP     | 52  | 754 | 148B5641    |

**Table 54: SVA-L Straightway - Butt-weld DIN (EN 10220)**

| Size |     | Type                   | MWP |     | Code number |
|------|-----|------------------------|-----|-----|-------------|
| mm   | in. |                        | bar | psi |             |
| 15   | ½   | SVA-L 15 D STR H-WHEEL | 52  | 754 | 148B5250    |
| 15   | ½   | SVA-L 15 D STR CAP     | 52  | 754 | 148B5251    |
| 20   | ¾   | SVA-L 20 D STR H-WHEEL | 52  | 754 | 148B5350    |
| 20   | ¾   | SVA-L 20 D STR CAP     | 52  | 754 | 148B5351    |
| 25   | 1   | SVA-L 25 D STR H-WHEEL | 52  | 754 | 148B5450    |
| 25   | 1   | SVA-L 25 D STR CAP     | 52  | 754 | 148B5451    |
| 32   | 1¼  | SVA-L 32 D STR H-WHEEL | 52  | 754 | 148B5550    |
| 32   | 1¼  | SVA-L 32 D STR CAP     | 52  | 754 | 148B5551    |
| 40   | 1½  | SVA-L 40 D STR H-WHEEL | 52  | 754 | 148B5650    |
| 40   | 1½  | SVA-L 40 D STR CAP     | 52  | 754 | 148B5651    |

**Table 55: SVA-L Angleway - Butt-weld ANSI (B 36.10 Schedule 80)**

| Size |     | Type                   | MWP |     | Code number |
|------|-----|------------------------|-----|-----|-------------|
| mm   | in. |                        | bar | psi |             |
| 15   | ½   | SVA-L 15 A ANG H-WHEEL | 52  | 754 | 148B5260    |
| 15   | ½   | SVA-L 15 A ANG CAP     | 52  | 754 | 148B5261    |
| 20   | ¾   | SVA-L 20 A ANG H-WHEEL | 52  | 754 | 148B5360    |
| 20   | ¾   | SVA-L 20 A ANG CAP     | 52  | 754 | 148B5361    |
| 25   | 1   | SVA-L 25 A ANG H-WHEEL | 52  | 754 | 148B5460    |
| 25   | 1   | SVA-L 25 A ANG CAP     | 52  | 754 | 148B5461    |
| 32   | 1¼  | SVA-L 32 A ANG H-WHEEL | 52  | 754 | 148B5560    |

## Shut-off valve, type SVA-S and SVA-L

| Size |     | Type                   | MWP |     | Code number |
|------|-----|------------------------|-----|-----|-------------|
| mm   | in. |                        | bar | psi |             |
| 32   | 1¼  | SVA-L 32 A ANG CAP     | 52  | 754 | 148B5561    |
| 40   | 1½  | SVA-L 40 A ANG H-WHEEL | 52  | 754 | 148B5660    |
| 40   | 1½  | SVA-L 40 A ANG CAP     | 52  | 754 | 148B5661    |

**Table 56: SVA-L Straightway - Butt-weld ANSI (B 36.10 Schedule 80)**

| Size |     | Type                   | MWP |     | Code number |
|------|-----|------------------------|-----|-----|-------------|
| mm   | in. |                        | bar | psi |             |
| 15   | ½   | SVA-L 15 A STR H-WHEEL | 52  | 754 | 148B5270    |
| 15   | ½   | SVA-L 15 A STR CAP     | 52  | 754 | 148B5271    |
| 20   | ¾   | SVA-L 20 A STR H-WHEEL | 52  | 754 | 148B5370    |
| 20   | ¾   | SVA-L 20 A STR CAP     | 52  | 754 | 148B5371    |
| 25   | 1   | SVA-L 25 A STR H-WHEEL | 52  | 754 | 148B5470    |
| 25   | 1   | SVA-L 25 A STR CAP     | 52  | 754 | 148B5471    |
| 32   | 1¼  | SVA-L 32 A STR H-WHEEL | 52  | 754 | 148B5570    |
| 32   | 1¼  | SVA-L 32 A STR CAP     | 52  | 754 | 148B5571    |
| 40   | 1½  | SVA-L 40 A STR H-WHEEL | 52  | 754 | 148B5670    |
| 40   | 1½  | SVA-L 40 A STR CAP     | 52  | 754 | 148B5671    |

**Table 57: SVA-L Angleway - Socket welding ANSI (B 16.11)**

| Size |     | Type                     | MWP |     | Code number |
|------|-----|--------------------------|-----|-----|-------------|
| mm   | in. |                          | bar | psi |             |
| 15   | ½   | SVA-L 15 SOC ANG H-WHEEL | 52  | 754 | 148B5262    |
| 15   | ½   | SVA-L 15 SOC ANG CAP     | 52  | 754 | 148B5263    |
| 20   | ¾   | SVA-L 20 SOC ANG H-WHEEL | 52  | 754 | 148B5362    |
| 20   | ¾   | SVA-L 20 SOC ANG CAP     | 52  | 754 | 148B5363    |
| 25   | 1   | SVA-L 25 SOC ANG H-WHEEL | 52  | 754 | 148B5462    |
| 25   | 1   | SVA-L 25 SOC ANG CAP     | 52  | 754 | 148B5463    |
| 32   | 1¼  | SVA-L 32 SOC ANG H-WHEEL | 52  | 754 | 148B5562    |
| 32   | 1¼  | SVA-L 32 SOC ANG CAP     | 52  | 754 | 148B5563    |
| 40   | 1½  | SVA-L 40 SOC ANG H-WHEEL | 52  | 754 | 148B5662    |
| 40   | 1½  | SVA-L 40 SOC ANG CAP     | 52  | 754 | 148B5663    |

**Table 58: SVA-L Straightway - Socket welding ANSI (B 16.11)**

| Size |     | Type                     | MWP |     | Code number |
|------|-----|--------------------------|-----|-----|-------------|
| mm   | in. |                          | bar | psi |             |
| 15   | ½   | SVA-L 15 SOC STR H-WHEEL | 52  | 754 | 148B5272    |
| 15   | ½   | SVA-L 15 SOC STR CAP     | 52  | 754 | 148B5273    |
| 20   | ¾   | SVA-L 20 SOC STR H-WHEEL | 52  | 754 | 148B5372    |
| 20   | ¾   | SVA-L 20 SOC STR CAP     | 52  | 754 | 148B5373    |
| 25   | 1   | SVA-L 25 SOC STR H-WHEEL | 52  | 754 | 148B5472    |
| 25   | 1   | SVA-L 25 SOC STR CAP     | 52  | 754 | 148B5473    |
| 32   | 1¼  | SVA-L 32 SOC STR H-WHEEL | 52  | 754 | 148B5572    |
| 32   | 1¼  | SVA-L 32 SOC STR CAP     | 52  | 754 | 148B5573    |
| 40   | 1½  | SVA-L 40 SOC STR H-WHEEL | 52  | 754 | 148B5672    |
| 40   | 1½  | SVA-L 40 SOC STR CAP     | 52  | 754 | 148B5673    |

**Table 59: SVA-L Angleway - FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1)**

| Size |     | Type                     | MWP |     | Code number |
|------|-----|--------------------------|-----|-----|-------------|
| mm   | in. |                          | bar | psi |             |
| 15   | ½   | SVA-L 15 FPT ANG H-WHEEL | 52  | 754 | 148B5264    |
| 15   | ½   | SVA-L 15 FPT ANG CAP     | 52  | 754 | 148B5265    |
| 20   | ¾   | SVA-L 20 FPT ANG H-WHEEL | 52  | 754 | 148B5364    |
| 20   | ¾   | SVA-L 20 FPT ANG CAP     | 52  | 754 | 148B5365    |
| 25   | 1   | SVA-L 25 FPT ANG H-WHEEL | 52  | 754 | 148B5464    |
| 25   | 1   | SVA-L 25 FPT ANG CAP     | 52  | 754 | 148B5465    |
| 32   | 1¼  | SVA-L 32 FPT ANG H-WHEEL | 52  | 754 | 148B5564    |
| 32   | 1¼  | SVA-L 32 FPT ANG CAP     | 52  | 754 | 148B5565    |

## Shut-off valve, type SVA-S and SVA-L

**Table 60: SVA-L Straightway - FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1)**

| Size |     | Type                     | MWP |     | Code number |
|------|-----|--------------------------|-----|-----|-------------|
| mm   | in. |                          | bar | psi |             |
| 15   | ½   | SVA-L 15 FPT STR H-WHEEL | 52  | 754 | 148B5274    |
| 15   | ½   | SVA-L 15 FPT STR CAP     | 52  | 754 | 148B5275    |
| 20   | ¾   | SVA-L 20 FPT STR H-WHEEL | 52  | 754 | 148B5374    |
| 20   | ¾   | SVA-L 20 FPT STR CAP     | 52  | 754 | 148B5375    |
| 25   | 1   | SVA-L 25 FPT STR H-WHEEL | 52  | 754 | 148B5474    |
| 25   | 1   | SVA-L 25 FPT STR CAP     | 52  | 754 | 148B5475    |
| 32   | 1¼  | SVA-L 32 FPT STR H-WHEEL | 52  | 754 | 148B5574    |
| 32   | 1¼  | SVA-L 32 FPT STR CAP     | 52  | 754 | 148B5575    |

**ANG** = Angleway

**STR** = Straightway

**CAP** = Cap

**H-WHEEL** = Hand wheel

## Accessories

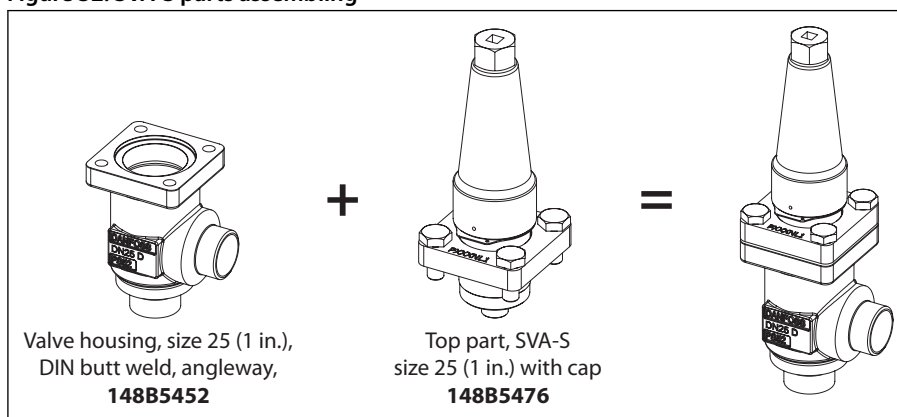
**Table 61: 6T Nipple Kit solution**

| Code no. | Description                             |
|----------|-----------------------------------------|
| 148B4245 | ACCESSORY WELD.NIPPLE DN6 A + UNION NUT |
| 148B4184 | ACCESSORY WELD.NIPPLE DN6 D + UNION NUT |

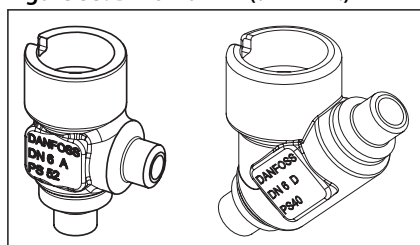
## Ordering SVA-S from the parts programme

**Example** (select from below two tables)

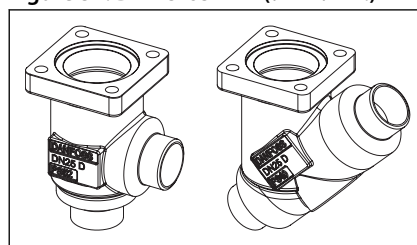
**Figure 32: SVA-S parts assembling**



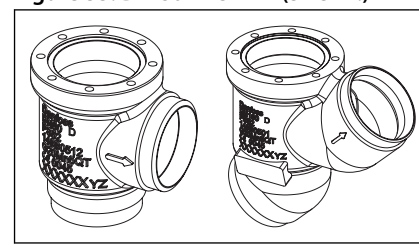
**Figure 33: DN 6-10 mm (¼ - ⅜ in.)**



**Figure 34: DN 15-65 mm (½ - 2½ in.)**



**Figure 35: DN 80-125 mm (3 - 5 in.)**



**Table 62: SVL valve housings w/different connections**

| Sizes [DN] |     | Valve Housing SVL |          |                |          |                |          |          |          |          |          |          |
|------------|-----|-------------------|----------|----------------|----------|----------------|----------|----------|----------|----------|----------|----------|
|            |     | DIN-Butt weld     |          | ANSI-Butt weld |          | GOST-Butt-weld |          | SOC      |          | FPT      |          | T        |
| mm         | in. | ANG               | STR      | ANG            | STR      | ANG            | STR      | ANG      | STR      | ANG      | STR      | ANG      |
| 6          | ¼   | 148B5002          | 148B5003 | 148B5004       | 148B5005 | -              | -        | -        | -        | -        | -        | 148B5012 |
| 10         | ⅜   | 148B5122          | 148B5123 | 148B5124       | 148B5125 | 148B5134       | 148B5135 | -        | -        | -        | -        | -        |
| 15         | ½   | 148B5252          | 148B5253 | 148B5254       | 148B5255 | 148B5391       | 148B5392 | 148B5256 | 148B5257 | 148B5258 | 148B5259 | -        |
| 20         | ¾   | 148B5352          | 148B5353 | 148B5354       | 148B5355 | 148B5393       | 148B5394 | 148B5356 | 148B5357 | 148B5358 | 148B5359 | -        |

## Shut-off valve, type SVA-S and SVA-L

| Sizes [DN] |     | Valve Housing SVL |          |                |          |                |          |          |          |          |          |     |
|------------|-----|-------------------|----------|----------------|----------|----------------|----------|----------|----------|----------|----------|-----|
|            |     | DIN-Butt weld     |          | ANSI-Butt weld |          | GOST-Butt-weld |          | SOC      |          | FPT      |          | T   |
| mm         | in. | ANG               | STR      | ANG            | STR      | ANG            | STR      | ANG      | STR      | ANG      | STR      | ANG |
| 25         | 1   | 148B5452          | 148B5453 | 148B5454       | 148B5455 | 148B5498       | 148B5499 | 148B5456 | 148B5457 | 148B5458 | 148B5459 | -   |
| 32         | 1¼  | 148B5576          | 148B5577 | 148B5578       | 148B5579 | 148B5593       | 148B5594 | 148B5580 | 148B5581 | 148B5582 | 148B5583 | -   |
| 40         | 1½  | 148B5652          | 148B5653 | 148B5654       | 148B5655 | 148B5681       | 148B5682 | 148B5656 | 148B5657 | -        | -        | -   |
| 50         | 2   | 148B5741          | 148B5742 | 148B5743       | 148B5744 | 148B5759       | 148B5760 | 148B5745 | 148B5746 | -        | -        | -   |
| 65         | 2½  | 148B5816          | 148B5817 | 148B5818       | 148B5819 | 148B5816       | 148B5817 | -        | -        | -        | -        | -   |
| 80         | 3   | 148B5912          | 148B5913 | 148B5914       | 148B5915 | 148B5912       | 148B5913 | -        | -        | -        | -        | -   |
| 100        | 4   | 148B6014          | 148B6015 | 148B6016       | 148B6017 | 148B6033       | 148B6034 | -        | -        | -        | -        | -   |
| 125        | 5   | 148B6112          | 148B6113 | 148B6114       | 148B6115 | 148B6133       | 148B6134 | -        | -        | -        | -        | -   |

### NOTE:

Not all sizes available for SVA-L - see next following table

Figure 36: SVA complete top parts

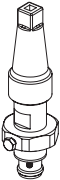
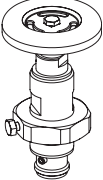
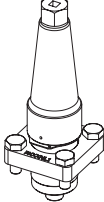
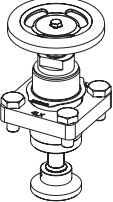
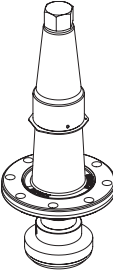
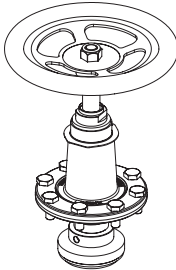
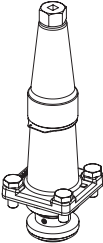
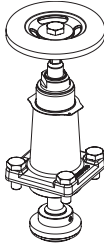
| SVA-S 6-10<br>with cap                                                             | SVA-S 6-10<br>with h-wheel                                                         | SVA-S 15-65<br>with cap                                                            | SVA-S 15-65<br>with h-wheel                                                        | SVA-S 80-125<br>with cap                                                           | SVA-S 80-125<br>with h-wheel                                                        | SVA-L 15-40<br>with cap                                                              | SVA-L 15-40<br>with h-wheel                                                          |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |

Table 63: SVA complete top part including gaskets and bolts

| Sizes [DN] |     | Complete top part |                  |              |                  |
|------------|-----|-------------------|------------------|--------------|------------------|
| mm         | in. | SVA-S<br>CAP      | SVA-S<br>H-WHEEL | SVA-L<br>CAP | SVA-L<br>H-WHEEL |
| 6          | ¼   | 148B5013          | 148B5014         | -            | -                |
| 10         | ¾   |                   |                  | -            | -                |
| 15         | ½   | 148B5276          | 148B5277         | 148B5278     | 148B5279         |
| 20         | ¾   |                   |                  |              |                  |
| 25         | 1   | 148B5476          | 148B5477         | 148B5478     | 148B5479         |
| 32         | 1¼  |                   |                  |              |                  |
| 40         | 1½  |                   |                  |              |                  |
| 50         | 2   | 148B5728          | 148B5729         | -            | -                |
| 65         | 2½  | 148B5822          | 148B5823         | -            | -                |
| 80         | 3   | 148B5916          | 148B5917         | -            | -                |
| 100        | 4   | 148B6012          | 148B6018         | -            | -                |
| 125        | 5   | 148B6116          | 148B6117         | -            | -                |

## Certificates, declarations, and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

Some approvals may change over time. You can check the most current status at [danfoss.com](https://danfoss.com) or contact your local Danfoss representative if you have any questions.

### Valid approvals

Table 64: Pressure Equipment Directive (PED)

|                                                                                   |                                                                                                                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|  | SVA 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.

Table 65: SVA

| SVA            |                        |                         |                          |
|----------------|------------------------|-------------------------|--------------------------|
| Nominal bore   | DN ≤ 25 mm (1 in.)     | DN32-80 mm (1¼ - 3 in.) | DN100 - 200 mm (4-8 in.) |
| Classified for | Fluid group I          |                         |                          |
| Category       | Article 3, paragraph 3 | II                      | III                      |

Table 66: Certificates and declarations

| File name                          | Document type                 | Document topic | Approval authority |
|------------------------------------|-------------------------------|----------------|--------------------|
| 03709-F0 BV                        | Marine - Safety Certificate   | -              | BV                 |
| TAP0000003 Rev. 1                  | Marine - Safety Certificate   | -              | DNV GL             |
| 033F0685.AK                        | EU Declaration                | EMCD/PED       | Danfoss            |
| 033F0691.AE                        | Manufacturers Declaration     | RoHS           | Danfoss            |
| 0045 202 1204 Z 00354 19 D 001(00) | Pressure - Safety Certificate | PED            | TÜV                |
| 0045 202 1204 Z 00355 19 D 001(00) | Pressure - Safety Certificate | -              | TÜV                |
| 033F0453.AD                        | Manufacturers Declaration     | ATEX           | Danfoss            |
| 19.10048.266                       | Marine - Safety Certificate   | -              | RMRS               |



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