

DUAL SAFETY VALVES FOR REFRIGERATION

WVR-SVA, WVR-SVU

05.02.2026

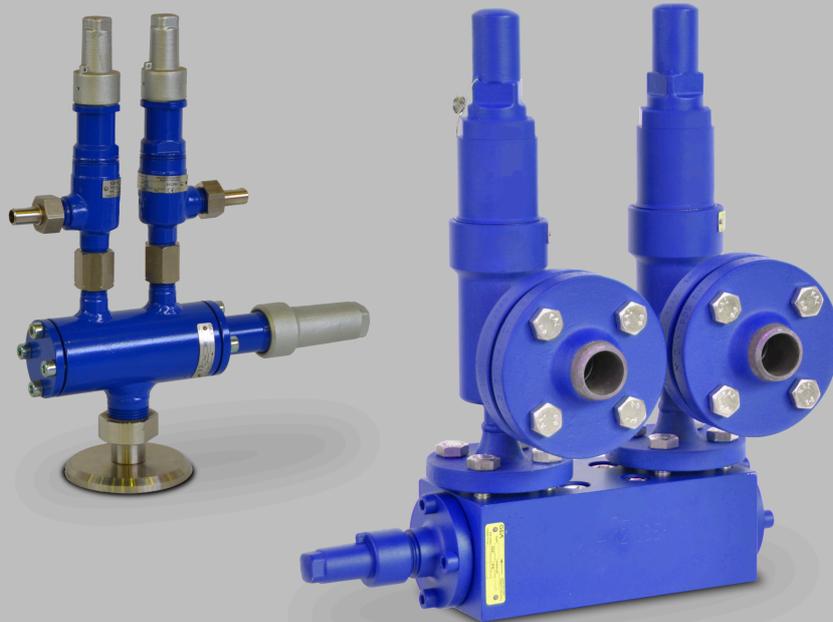


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1 WVR-SV

WVR-SVAA: Change-over safety valve combination - back-pressure dependent

| WVR-SVA | Connection | Form | Material | Valve type |
|-------------------------------|--------------|------|----------|---------------------|
| WVR-SVA PS25 / PS40 / PS63 | Flanged ends | | St | WVR-SVAA FL |
| | | | NIRO | WVR-SVAA FL NIRO |
| | | | St | WVR-SVAA BS FL |
| | | | NIRO | WVR-SVAA BS FL NIRO |
| | Screwed ends | | St | WVR-SVAA SE |
| | | | NIRO | WVR-SVAA SE NIRO |
| | | | St | WVR-SVAA BS SE |
| | | | NIRO | WVR-SVAA BS SE NIRO |

WVR SVUA: Change-over safety valve combination - back-pressure independent

| WVR-SVU | Connection | Form | Material | Valve type |
|-------------------------------|--------------|------|----------|---------------------|
| WVR-SVU PS25 / PS40 / PS63 | Flanged ends | | St | WVR-SVUA FL |
| | | | NIRO | WVR-SVUA FL NIRO |
| | | | St | WVR-SVUA BS FL |
| | | | NIRO | WVR-SVUA BS FL NIRO |
| | Screwed ends | | St | WVR-SVUA SE |
| | | | NIRO | WVR-SVUA SE NIRO |
| | | | St | WVR-SVUA BS SE |
| | | | NIRO | WVR-SVUA BS SE NIRO |

WVR SVUA P: Change-over safety valve combination - high performance - back-pressure independent

| WVR-SVU P | Connection | Form | Material | Valve type |
|---------------------------------|--------------|------|----------|-----------------------|
| WVR-SVU P PS25 / PS40 / PS63 | Flanged ends | | St | WVR-SVUA P FL |
| | | | NIRO | WVR-SVUA P FL NIRO |
| | | | St | WVR-SVUA P BS FL |
| | | | NIRO | WVR-SVUA P BS FL NIRO |
| | Screwed ends | | St | WVR-SVUA P SE |
| | | | NIRO | WVR-SVUA P SE NIRO |
| | | | St | WVR-SVUA P BS SE |
| | | | NIRO | WVR-SVUA P BS SE NIRO |

St = steel SS = stainless steel

2 WVR-SV

WVR-SVAA/B:

Change-over safety valve combination - back-pressure dependent

| WVR AL-SVA | Connection | Form | Material | Valve type |
|----------------------------------|--------------|------|----------|-----------------------|
| WVR AL-SVA PS25 / PS40 / PS63 | Flanged ends | | Alu/St | WVR AL-SVAA/B FL |
| | | | Alu/NIRO | WVR AL-SVAA/B FL NIRO |
| WVR AL-SVA Herl T24.1V | Flanged ends | | Alu/St | WVR AL-SVAA/B FL Herl |

WVR SVUA/B P:

Change-over safety valve combination - back-pressure independent

| WVR AL-SVU | Connection | Form | Material | Valve type |
|----------------------------------|--------------|------|----------|-----------------------|
| WVR AL-SVU PS25 / PS40 / PS63 | Flanged ends | | Alu/St | WVR AL-SVUA/B FL |
| | | | Alu/NIRO | WVR AL-SVUA/B FL NIRO |
| WVR AL-SVU Herl T19.1F | Flanged ends | | Alu/St | WVR AL-SVUA/B FL Herl |

WVR SVUA/B P:

Change-over safety valve combination - high performance - back-pressure independent

| WVR AL-SVU P | Connec- tion | Form | Ma- terial | Valve type |
|------------------------------------|-----------------|------|---------------|--------------------------------|
| WVR AL-SVU P PS25 / PS40 / PS63 | Flanged ends | | Alu/St | WVR AL- SVUA/B P FL |
| | | | Alu/ NIRO | WVR AL- SVUA/B P FL NIRO |
| WVR AL-SVU P Herl T24.1V | Flanged ends | | Alu/St | WVR AL- SVUA/B P FL Herl |
| Information | Legal notice | | | |

St = steel SS = stainless steel

| Nominal size: | | | | Flanged ends acc. to: | | | | | | | | Re- response pressure range | | | | | | | |
|---------------|----|-------|---------|-----------------------|-----|---------|---------|---------|---------|-----|-----|--------------------------------------|-----|-----|-----|-----|-----|------|---------------|
| 25 | 25 | 15/25 | HB J | | | 18 0 | 30 2 | | | | | 207 | | 259 | 120 | 160 | | 5-40 | |
| 20 | 32 | 20/32 | | 185 | 311 | 18 3 | 33 6 | 20 6 | 36 0 | 198 | 373 | 238 | 258 | 208 | 60 | 150 | 160 | 5-63 | 40 -6 3 |
| 25 | 32 | 20/32 | HB | | | 18 0 | 30 2 | | | | | 238 | | 259 | 120 | 160 | | 5-40 | |
| 32 | 32 | 20/32 | HB | | | 19 5 | 31 1 | | | | | 238 | | 259 | 120 | 180 | | 5-40 | |
| 25 | 40 | 25/40 | | 190 | 330 | 19 6 | 31 8 | 22 1 | 37 2 | 213 | 365 | 246 | 266 | 259 | 120 | 160 | 175 | 5-63 | 24 -6 3 |
| 32 | 40 | 25/40 | HB | | | 19 5 | 31 1 | | | | | 246 | 266 | 259 | 120 | 180 | | 5-40 | 24 -4 0 |
| 40 | 40 | 25/40 | HB | | | 22 2 | 33 1 | | | | | 246 | 266 | 312 | 140 | 214 | | 5-40 | 24 -4 0 |
| 32 | 50 | 32/50 | | 213 | 344 | 21 8 | 33 8 | | | 234 | 384 | 278 | | 259 | 120 | 180 | | 5-40 | |
| 40 | 50 | 32/50 | HB | | | 22 2 | 33 1 | | | | | 278 | | 312 | 140 | 214 | | 5-40 | |
| 50 | 50 | 32/50 | HB | | | 23 9 | 35 5 | | | | | 278 | | 319 | 140 | 228 | | 5-40 | |
| 40 | 65 | 40/65 | | 256 | 333 | 25 4 | 35 2 | | | 272 | 403 | 281 | | 312 | 140 | 214 | | 5-40 | |
| 50 | 65 | 40/65 | HB | | | 23 9 | 35 5 | | | | | 281 | | 319 | 140 | 228 | | 5-40 | |
| 65 | 65 | 40/65 | HB | | | 28 3 | 40 9 | | | | | 281 | | 350 | 140 | 276 | | 5-40 | |

Table 1: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
 Type*: HB = installation lengths according to EN-standard, A*): for PN63 DIN-flange, DIN/EN flange facings with
 DIN 2512 tongue/groove as standard

4 WVR-SVAA FL NIRO

O: PTFE seat seal, **FL:** Flanged ends

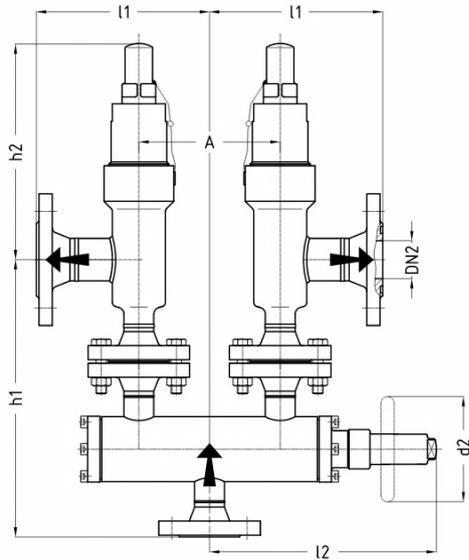
WVR-SVA stainless steel change-over safety valve combination - back-pressure dependent for natural gases and liquids (e.g. NH₃, CO₂) and non-corrosive media according to EN 378-1

Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating



| Nominal size: | | Flanged ends acc. to: | | | | | | | | | | Response pressure range | | | | | | | |
|---------------|--------|-----------------------|-------|--------|------|--------|-----|------|-----|-----|-----|-------------------------|------|-----|-----|-----|-----|------|-----|
| Base valve | Typ e* | AWP | | PN25/4 | | PN63 | | ANSI | | | | h2*) for | | | | | | | |
| | | DN10-20 | 0 | DIN | 2635 | EN1092 | -1 | | | | | | | | | | | | |
| DN1 | DN2 | Base | Typ e | l1 | h1 | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | A* | bar | bar |
| 15 | 25 | 15/2 5 | | 160 | 281 | 156 | 300 | 187 | 321 | 172 | 330 | 207 | | 193 | 60 | 120 | 145 | 5-63 | |
| 15 | 25 | 15/2 5 | HB | | | 155 | 299 | | | | | 207 | | 193 | 60 | 120 | | 5-40 | |
| 20 | 25 | 15/2 5 | HB | | | 170 | 323 | | | | | 207 | | 208 | 60 | 150 | | 5-40 | |
| 25 | 25 | 15/2 5 | HBK | | | 160 | 292 | | | | | 207 | | 259 | 120 | 160 | | 5-40 | |
| 25 | 25 | 15/2 5 | HBJ | | | 180 | 302 | | | | | 207 | | 259 | 120 | 160 | | 5-40 | |

| Nominal size: | | | | Flanged ends acc. to: | | | | | | | | Response pressure range | | | | | | | |
|---------------|----|-----------|----|-----------------------|-----|---------|---------|---------|---------|---------|---------|-------------------------|-----|-----|-----|-----|-----|------|-----------|
| 20 | 32 | 20/3 2 | | 185 | 311 | 18 3 | 33 6 | 20 6 | 36 0 | 19 8 | 37 3 | 238 | 258 | 208 | 60 | 150 | 160 | 5-63 | 40-6 3 |
| 25 | 32 | 20/3 2 | HB | | | 18 0 | 30 2 | | | | | 238 | | 259 | 120 | 160 | | 5-40 | |
| 32 | 32 | 20/3 2 | HB | | | 19 5 | 31 1 | | | | | 238 | | 259 | 120 | 180 | | 5-40 | |
| 25 | 40 | 25/4 0 | | 190 | 330 | 19 6 | 31 8 | 22 1 | 37 2 | 21 3 | 36 5 | 246 | 266 | 259 | 120 | 160 | 175 | 5-63 | 24-6 3 |
| 32 | 40 | 25/4 0 | HB | | | 19 5 | 31 1 | | | | | 246 | 266 | 259 | 120 | 180 | | 5-40 | 24-4 0 |
| 40 | 40 | 25/4 0 | HB | | | 22 2 | 33 1 | | | | | 246 | 266 | 312 | 140 | 214 | | 5-40 | 24-4 0 |
| 32 | 50 | 32/5 0 | | 213 | 344 | 21 8 | 33 8 | | | 23 4 | 38 4 | 278 | | 259 | 120 | 180 | | 5-40 | |
| 40 | 50 | 32/5 0 | HB | | | 22 2 | 33 1 | | | | | 278 | | 312 | 140 | 214 | | 5-40 | |
| 50 | 50 | 32/5 0 | HB | | | 23 9 | 35 5 | | | | | 278 | | 319 | 140 | 228 | | 5-40 | |
| 40 | 65 | 40/6 5 | | 256 | 333 | 25 4 | 35 2 | | | 27 2 | 40 3 | 281 | | 312 | 140 | 214 | | 5-40 | |
| 50 | 65 | 40/6 5 | HB | | | 23 9 | 35 5 | | | | | 281 | | 319 | 140 | 228 | | 5-40 | |
| 65 | 65 | 40/6 5 | HB | | | 28 3 | 40 9 | | | | | 281 | | 350 | 140 | 276 | | 5-40 | |

Table 2: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
 Type*: HB = installation lengths according to EN-standard, A*: for PN63 DIN-flange, DIN/EN flange facings with DIN 2512 tongue/groove as standard

5 WVR-SVAA BS FL

O: PTFE seat seal, **BS:** bursting discs, **FL:** Flanged ends

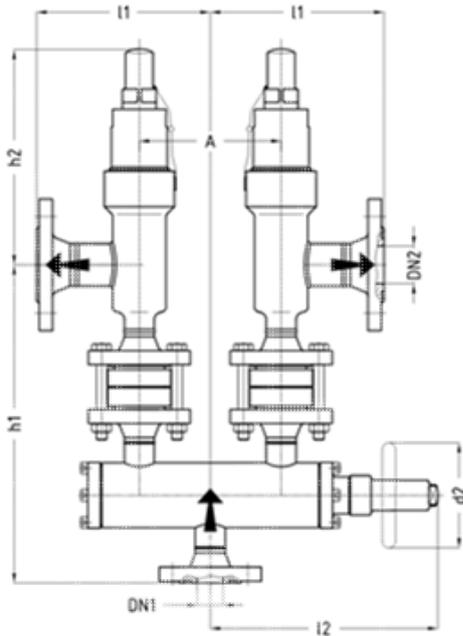
WVR-SVA BS steel change-over safety valve combination with bursting discs - back-pressure dependent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1

Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating



| Nominal size: | | | Flanged ends acc. to: | | | | | | Response pressure range | | | | | | |
|---------------|------------|-------|-----------------------|-----|----------|-----|--------|-----|-------------------------|------|-----|-----|-----|------|-------|
| DN* | Base valve | Type* | AWP | | PN25/40 | | ANSI | | | | | | | | |
| | | | DN10-20 | | DIN 2635 | | 300 RF | | | | | | | | h2*) |
| | | | PN25 | | EN1092-1 | | | | | | | | | | for |
| | | | DN25-80 | | | | | | | | | | | | |
| | | | PN40 | | | | | | | | | | | | |
| DN1/ DN2 | Base | Type | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | bar | bar |
| 15/25 | 15/25 | | 160 | 322 | 156 | 341 | 172 | 371 | 207 | | 193 | 60 | 120 | 5-40 | |
| 15/25 | 15/25 | HB | | | 155 | 340 | | | 207 | | 193 | 60 | 120 | 5-40 | |
| 20/25 | 15/25 | HB | | | 170 | 364 | | | 207 | | 208 | 60 | 150 | 5-40 | |
| 25/25 | 15/25 | HBK | | | 160 | 333 | | | 207 | | 259 | 120 | 160 | 5-40 | |
| 25/25 | 15/25 | HBJ | | | 180 | 343 | | | 207 | | 259 | 120 | 160 | 5-40 | |
| 20/32 | 20/32 | | 185 | 352 | 183 | 377 | 198 | 414 | 238 | | 208 | 60 | 150 | 5-40 | |
| 25/32 | 20/32 | HB | | | 180 | 343 | | | 238 | | 259 | 120 | 160 | 5-40 | |
| 32/32 | 20/32 | HB | | | 195 | 352 | | | 238 | | 259 | 120 | 180 | 5-40 | |
| 25/40 | 25/40 | | 190 | 376 | 196 | 364 | 213 | 411 | 246 | 266 | 259 | 120 | 160 | 5-40 | 24-40 |
| 32/40 | 25/40 | HB | | | 195 | 357 | | | 246 | 266 | 259 | 120 | 180 | 5-40 | 24-40 |

| Nominal size: | | | Flanged ends acc. to: | | | | | | | | | | Response pressure range | | |
|---------------|-------|----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------|------|-------|
| 40/40 | 25/40 | HB | | | 222 | 377 | | | 246 | 266 | 312 | 140 | 214 | 5-40 | 24-40 |
| 32/50 | 32/50 | | 213 | 390 | 218 | 384 | 234 | 430 | 278 | | 259 | 120 | 180 | 5-40 | |
| 40/50 | 32/50 | HB | | | 222 | 377 | | | 278 | | 312 | 140 | 214 | 5-40 | |
| 50/50 | 32/50 | HB | | | 239 | 401 | | | 278 | | 319 | 140 | 228 | 5-40 | |
| 40/65 | 40/65 | | 256 | 379 | 254 | 398 | 272 | 449 | 281 | | 312 | 140 | 214 | 5-40 | |
| 50/65 | 40/65 | HB | | | 239 | 401 | | | 281 | | 319 | 140 | 228 | 5-40 | |
| 65/65 | 40/65 | HB | | | 283 | 455 | | | 281 | | 350 | 140 | 276 | 5-40 | |

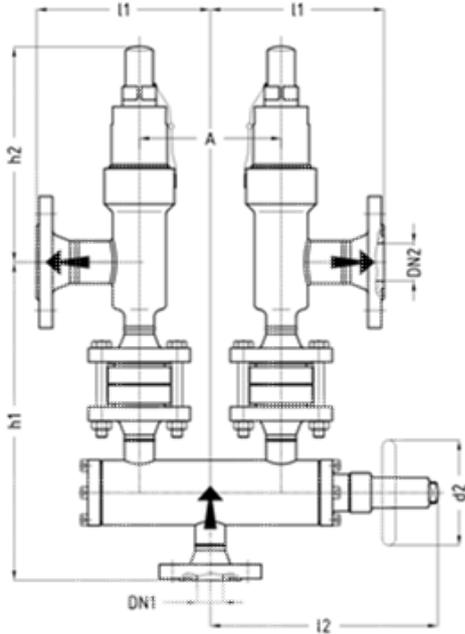
Table 3: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
 Type*: HB = installation lengths according to EN-standard, DIN/EN flange facings with DIN 2512 tongue/groove as standard

6 WVR-SVAA BS FL NIRO

O: PTFE seat seal, **BS:** bursting discs, **FL:** Flanged ends

WVR-SVA BS stainless steel change-over safety valve combination with bursting discs - back-pressure dependent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Flanged ends acc. to: / flange acc. to: | | | | | | Response pressure range | | | | | | | |
|---------------|------------|---|---------|-----|----------|-----|--------|-------------------------|-----|------|-----|-----|-----|------|-------|
| DN* | Base valve | Type* | AWP | | PN25/40 | | ANSI | | | | | | | | |
| | | | DN10-20 | | DIN 2635 | | 300 RF | | | | | | | | |
| | | | PN25 | | EN1092-1 | | | | | | | | | | |
| | | | DN25-80 | | | | | | | | | | | | |
| | | | PN40 | | | | | | | | | | | | |
| DN1/ DN2 | Base | Type | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | bar | bar |
| 15/25 | 15/25 | | 160 | 322 | 156 | 341 | 172 | 371 | 207 | | 193 | 60 | 120 | 5-40 | |
| 15/25 | 15/25 | HB | | | 155 | 340 | | | 207 | | 193 | 60 | 120 | 5-40 | |
| 20/25 | 15/25 | HB | | | 170 | 364 | | | 207 | | 208 | 60 | 150 | 5-40 | |
| 25/25 | 15/25 | HBK | | | 160 | 333 | | | 207 | | 259 | 120 | 160 | 5-40 | |
| 25/25 | 15/25 | HBJ | | | 180 | 343 | | | 207 | | 259 | 120 | 160 | 5-40 | |
| 20/32 | 20/32 | | 185 | 352 | 183 | 377 | 198 | 414 | 238 | | 208 | 60 | 150 | 5-40 | |
| 25/32 | 20/32 | HB | | | 180 | 343 | | | 238 | | 259 | 120 | 160 | 5-40 | |
| 32/32 | 20/32 | HB | | | 195 | 352 | | | 238 | | 259 | 120 | 180 | 5-40 | |
| 25/40 | 25/40 | | 190 | 376 | 196 | 364 | 213 | 411 | 246 | 266 | 259 | 120 | 160 | 5-40 | 24-40 |
| 32/40 | 25/40 | HB | | | 195 | 357 | | | 246 | 266 | 259 | 120 | 180 | 5-40 | 24-40 |

| Nominal size: | | | Flanged ends acc. to: / flange acc. to: | | | | | | | | Response pressure range | | | | |
|---------------|-------|----|---|-----|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|------|-------|
| 40/40 | 25/40 | HB | | | 222 | 377 | | | 246 | 266 | 312 | 140 | 214 | 5-40 | 24-40 |
| 32/50 | 32/50 | | 213 | 390 | 218 | 384 | 234 | 430 | 278 | | 259 | 120 | 180 | 5-40 | |
| 40/50 | 32/50 | HB | | | 222 | 377 | | | 278 | | 312 | 140 | 214 | 5-40 | |
| 50/50 | 32/50 | HB | | | 239 | 401 | | | 278 | | 319 | 140 | 228 | 5-40 | |
| 40/65 | 40/65 | | 256 | 379 | 254 | 398 | 272 | 449 | 281 | | 312 | 140 | 214 | 5-40 | |
| 50/65 | 40/65 | HB | | | 239 | 401 | | | 281 | | 319 | 140 | 228 | 5-40 | |
| 65/65 | 40/65 | HB | | | 283 | 455 | | | 281 | | 350 | 140 | 276 | 5-40 | |

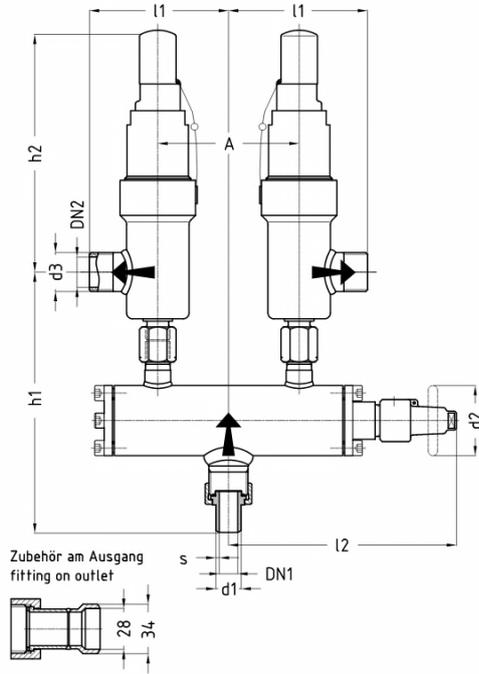
Table 4: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
 Type*: HB = installation lengths according to EN-standard, DIN/EN flange facings with DIN 2512 tongue/groove as standard

7 WVR-SVAA SE

O: PTFE seat seal, **SE:** Screwed ends

WVR-SVA steel change-over safety valve combination - back-pressure dependent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

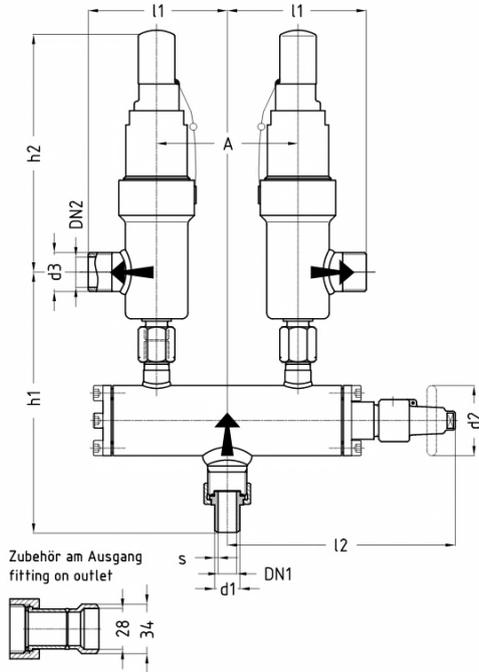
| Nominal size: | | | Welding ends acc. to: | | | | Screwed ends acc. to: | | | | | | Response pressure range | |
|---------------|-----|------------|-----------------------|-----|--------------|-----|-----------------------|-----|-----|-----|-----|----|-------------------------|------|
| DN* | | Base valve | ISO Series 1 | | ANSI Sched40 | | | | | | | | | |
| DN1 | DN2 | Base | d1 | s | d1 | s | d3 | l1 | h1 | h2 | l2 | d2 | A | bar |
| 15 | 25 | 15/25 | 21.3 | 2.0 | 21.3 | 2.8 | G1 | 118 | 223 | 207 | 193 | 60 | 120 | 5-63 |

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

8 WVR-SVAA SE NIRO

O: PTFE seat seal, **SE:** Screwed ends

WVR-SVA stainless steel change-over safety valve combination - back-pressure independent for natural gases and liquids (e.g. NH₃, CO₂) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Welding ends acc. to: | | Screwed ends acc. to: | | | | | | Response pressure range | | | | |
|---------------|-----|-----------------------|------|-----------------------|------|--------------|----|-----|-----|-------------------------|-----|----|-----|------|
| DN* | | Base valve | | ISO Series 1 | | ANSI Sched40 | | | | | | | | |
| DN1 | DN2 | Base | d1 | s | d1 | s | d3 | l1 | h1 | h2 | l2 | d2 | A | bar |
| 15 | 25 | 15/25 | 21.3 | 2.0 | 21.3 | 2.8 | G1 | 118 | 223 | 207 | 193 | 60 | 120 | 5-63 |

Table 5: Dimensions

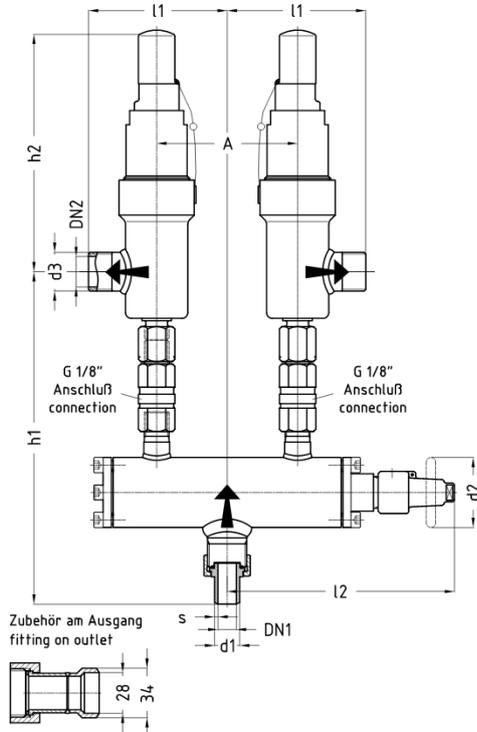
DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

9 WVR-SVAA BS SE

O: PTFE seat seal, **BS:** bursting discs, **SE:** screwed ends

O: PTFE seat seal, **BS:** bursting discs, **FL:** flanged ends, **HT:** Temperature up to +200°C

WVR-SVA BS steel change-over safety valve combination with bursting discs - back-pressure dependent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | | Welding ends acc. to: | | | | Screwed ends acc. to: | | | | | | Response pressure range | |
|---------------|-----|------------|-----------------------|-----|--------------|-----|-----------------------|-----|-----|-----|-----|----|-------------------------|------|
| DN* | | Base valve | ISO Series 1 | | ANSI Sched40 | | | | | | | | | |
| DN1 | DN2 | Base | d1 | s | d1 | s | d3 | l1 | h1 | h2 | l2 | d2 | A | bar |
| 15 | 25 | 15/25 | 21.3 | 2.0 | 21.3 | 2.8 | G1 | 118 | 285 | 207 | 193 | 60 | 120 | 5-63 |

Table 6: Dimensions

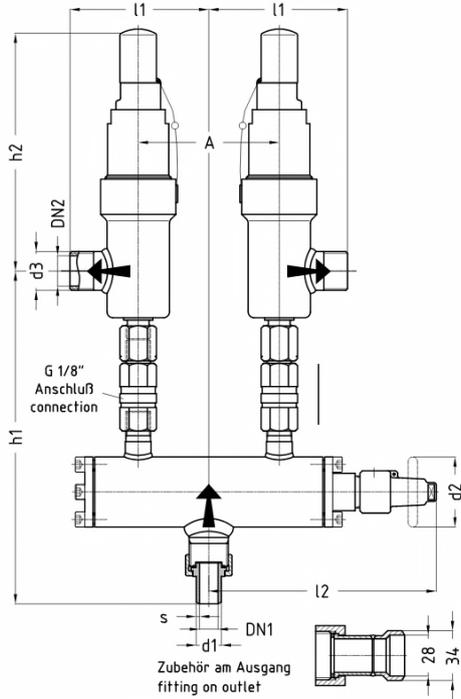
DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

10 WVR-SVAA BS SE NIRO

O: PTFE seat seal, **BS:** bursting discs, **SE:** screwed ends

O: PTFE seat seal, **BS:** bursting discs, **FL:** flanged ends, **HT:** Temperature up to +200°C

WVR-SVA BS stainless steel change-over safety valve combination with bursting discs - back-pressure dependent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Welding ends acc. to: | | | | | Screwed ends acc. to: | | | | | Response pressure range | | | |
|---------------|-----|-----------------------|------|--------------|------|-----|-----------------------|-----|-----|-----|-----|-------------------------|-----|------|--|
| DN* | | Base valve | | ISO Series 1 | | | ANSI Sched40 | | | | | | | | |
| DN1 | DN2 | Base | d1 | s | d1 | s | d3 | l1 | h1 | h2 | l2 | d2 | A | bar | |
| 15 | 25 | 15/25 | 21.3 | 2.0 | 21.3 | 2.8 | G1 | 118 | 285 | 207 | 193 | 60 | 120 | 5-63 | |

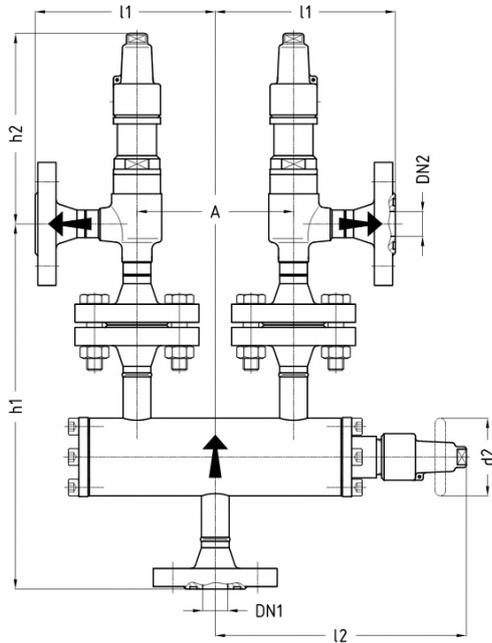
Table 7: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

11 WVR-SVUA FL

O: PTFE seat seal, **FL:** Flanged ends

WVR-SVU steel change-over safety valve combination - back-pressure independent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Flanged ends acc. to | | | | | | | | | | | | | | Response pressure range | | |
|---------------|------------|----------------------|---------|-----|----------|-----|----------|-----|--------|-----|-----|------|-----|-----|-----|-------------------------|------|-------|
| DN* | Base valve | Type* | AWP | | PN25/40 | | PN63 | | ANSI | | | | | | | | h2*) | |
| | | | DN10-20 | | DIN 2635 | | DIN 2636 | | 300 RF | | | | | | | | for | |
| | | | PN25 | | EN1092-1 | | EN1092-1 | | | | | | | | | | | |
| | | | DN25-80 | | | | | | | | | | | | | | | |
| | | | PN40 | | | | | | | | | | | | | | | |
| DN1/ DN2 | Base | Type | l1 | h1 | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | A* | bar | bar |
| 10/10 | 10/10 | | 126 | 269 | 129 | 279 | 154 | 309 | | | 148 | 175 | 187 | 60 | 108 | 135 | 4-63 | 28-63 |
| 15/15 | 15/15 | | 132 | 263 | 138 | 282 | 159 | 303 | 152 | 325 | 148 | 175 | 193 | 60 | 120 | 145 | 4-63 | 28-63 |
| 15/25 | 15/15 | HB | | | 155 | 298 | | | | | 148 | 175 | 193 | 60 | 120 | | 4-40 | 28-40 |
| 20/25 | 15/15 | HB | | | 170 | 322 | | | | | 148 | 175 | 208 | 60 | 150 | | 4-40 | 28-40 |
| 25/25 | 15/15 | HBJ | | | 180 | 301 | | | | | 148 | 175 | 259 | 120 | 160 | | 4-40 | 28-40 |

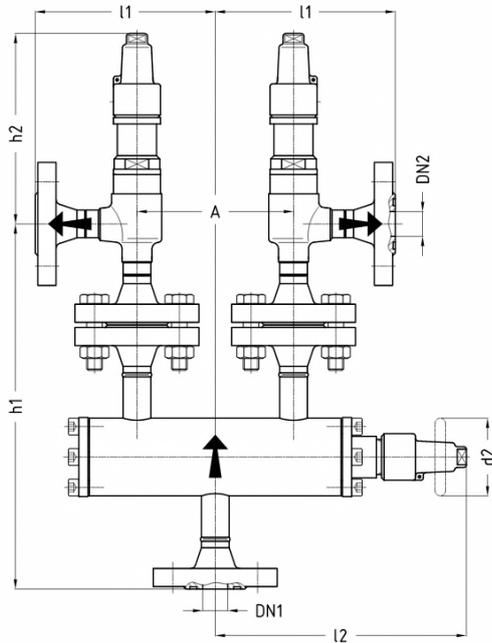
Table 8: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
Type*: HB = installation lengths according to EN-standard, A*: for PN63 DIN-flange, DIN/EN flange facings with
DIN 2512 tongue/groove as standard

12 WVR-SVUA FL NIRO

O: PTFE seat seal, **FL:** Flanged ends, **HT:** Temperature up to +200°C

WVR-SVU stainless steel change-over safety valve combination - back-pressure independent for natural gases and liquids (e.g. NH₃, CO₂) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Flanged ends acc. to: | | | | | | | | | | | | | | Response pressure range | | |
|---------------|------------|-----------------------|---|-----|---------------------------------|-----|------------------------------|-----|----------------|-----|-----|-----------|-----|-----|-----|-------------------------|-------------|-------|
| DN* | Base valve | Type* | AWP DN10-20 PN25 DN25-80 PN40 | | PN25/40 DIN 2635 EN1092-1 | | PN63 DIN 2636 EN1092-1 | | ANSI 300 RF | | | | | | | | h2*) for | |
| DN1/ DN2 | Base | Type | l1 | h1 | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*)) | l2 | d2 | A | A* | bar | bar |
| 10/10 | 10/10 | | 126 | 269 | 129 | 279 | 154 | 309 | | | 148 | 175 | 187 | 60 | 108 | 135 | 4-63 | 28-63 |
| 15/15 | 15/15 | | 132 | 263 | 138 | 282 | 159 | 303 | 152 | 325 | 148 | 175 | 193 | 60 | 120 | 145 | 4-63 | 28-63 |
| 15/25 | 15/15 | HB | | | 155 | 298 | | | | | 148 | 175 | 193 | 60 | 120 | | 4-40 | 28-40 |
| 20/25 | 15/15 | HB | | | 170 | 322 | | | | | 148 | 175 | 208 | 60 | 150 | | 4-40 | 28-40 |
| 25/25 | 15/15 | HBJ | | | 180 | 301 | | | | | 148 | 175 | 259 | 120 | 160 | | 4-40 | 28-40 |

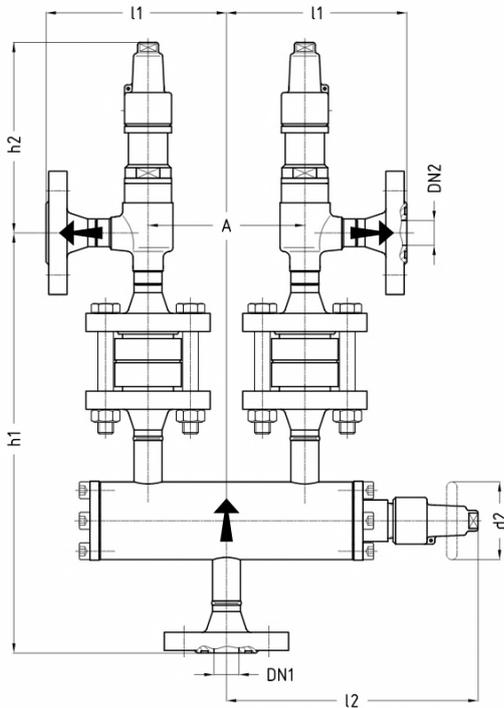
Table 9: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
Type*: HB = installation lengths according to EN-standard, A*: for PN63 DIN-flange, DIN/EN flange facings with
DIN 2512 tongue/groove as standard

13 WVR-SVUA BS FL

O: PTFE seat seal, **BS:** bursting discs, **FL:** Flanged ends

WVR-SVU BS steel change-over safety valve combination with bursting discs - back-pressure independent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Flanged ends acc. to: | | | | | | | | | | | Response pressure range | | |
|---------------|------------|-----------------------|---------|-----|----------|-----|--------|-----|-----|------|-----|-----|-------------------------|------|-------|
| DN* | Base valve | Type* | AWP | | PN25/40 | | ANSI | | | | | | bar | bar | |
| | | | DN10-20 | | DIN 2635 | | 300 RF | | | | | | | h2*) | |
| | | | PN25 | | EN1092-1 | | | | | | | | | for | |
| | | | DN25-80 | | | | | | | | | | | | |
| | | | PN40 | | | | | | | | | | | | |
| DN1/ DN2 | Base | Type | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | bar | bar |
| 15/15 | 15/15 | | 132 | 305 | 138 | 324 | 159 | 367 | 148 | 175 | 193 | 60 | 120 | 4-40 | 28-40 |
| 15/25 | 15/15 | HB | | | 155 | 340 | | | 148 | 175 | 193 | 60 | 120 | 4-40 | 28-40 |
| 20/25 | 15/15 | HB | | | 170 | 364 | | | 148 | 175 | 208 | 60 | 150 | 4-40 | 28-40 |
| 25/25 | 15/15 | HBJ | | | 180 | 343 | | | 148 | 175 | 259 | 120 | 160 | 4-40 | 28-40 |

Table 10: Dimensions

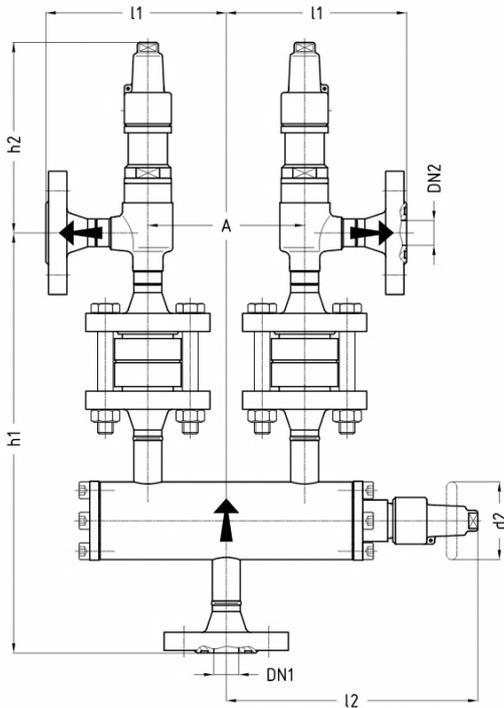
DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

Type*: HB = installation lengths according to EN-standard, DIN/EN flange facings with DIN 2512 tongue/groove as standard

14 WVR-SVUA BS FL NIRO

O: PTFE seat seal, **BS:** bursting discs, **FL:** Flanged ends

WVR-SVU BS stainless steel change-over safety valve combination with bursting discs - back-pressure independent for natural refrigerants (NH3, CO2) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

See Chapter 7 WVR /WVB, Chapter 8 SVA/SVU and Chapter 9 BS.

| Nominal size: | | | Flanged ends acc. to: | | | | | | | | | | | Response pressure range | |
|---------------|------------|--------|-----------------------|-----|----------|-----|--------|-----|-----|------|-----|-----|-----|-------------------------|-------|
| DN* | Base valve | Type * | AWP | | PN25/40 | | ANSI | | | | | | bar | bar | |
| | | | DN10-20 | | DIN 2635 | | 300 RF | | | | | | | | |
| | | | PN25 | | EN1092-1 | | | | | | | | | | |
| | | | DN25-80 | | | | | | | | | | | | |
| | | | PN40 | | | | | | | | | | | | |
| DN1/ DN2 | Base | Type | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | bar | bar |
| 15/15 | 15/15 | | 132 | 305 | 138 | 324 | 159 | 367 | 148 | 175 | 193 | 60 | 120 | 4-40 | 28-40 |
| 15/25 | 15/15 | HB | | | 155 | 340 | | | 148 | 175 | 193 | 60 | 120 | 4-40 | 28-40 |
| 20/25 | 15/15 | HB | | | 170 | 364 | | | 148 | 175 | 208 | 60 | 150 | 4-40 | 28-40 |
| 25/25 | 15/15 | HBJ | | | 180 | 343 | | | 148 | 175 | 259 | 120 | 160 | 4-40 | 28-40 |

Table 11: Dimensions

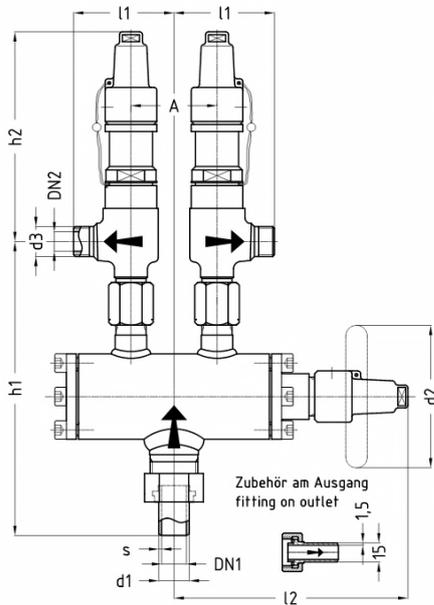
DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

Type*: HB = installation lengths according to EN-standard, DIN/EN flange facings with DIN 2512 tongue/groove as standard

15 WVR-SVUA SE

O: PTFE seat seal, **SE:** Screwed ends

WVR-SVU steel change-over safety valve combination - back-pressure independent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Welding ends acc. to: | | Screwed ends acc. to: | | | | | | | | Response pressure range | | | | |
|---------------|------------|-----------------------|------|-----------------------|------|-----|------|----|-----|-----|------|-------------------------|----|------|------|-------|
| DN* | Base valve | ISO Series 1 | | ANSI Sched40 | | | | | | | | | | h2*) | for | |
| DN1 | DN2 | Base | d1 | s | d1 | s | d3 | l1 | h1 | h2 | h2*) | l2 | d2 | A | bar | bar |
| 15 | 15 | 15/15 | 21.3 | 2.0 | 21.3 | 2.8 | G1/2 | 70 | 206 | 148 | 175 | 163 | 60 | 60 | 4-63 | 28-63 |

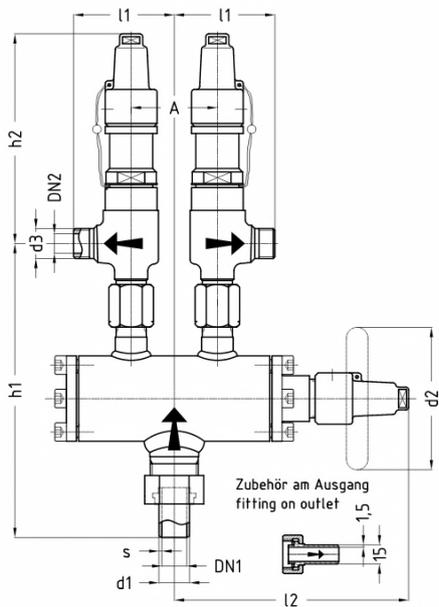
Table 12: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

16 WVR-SVUA SE NIRO

O: PTFE seat seal, **SE:** Screwed ends

WVR-SVU stainless steel change-over safety valve combination - back-pressure independent for natural gases and liquids (e.g. NH₃, CO₂) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Welding ends acc. to: | | | | Screwed ends acc. to: | | | | | | Response pressure range | | | | |
|---------------|------------|-----------------------|------|--------------|------|-----------------------|------|----|-----|-----|------|-------------------------|----|----|------|-------|
| DN* | Base valve | ISO Series 1 | | ANSI Sched40 | | | | | | | | h2*) for | | | | |
| DN1 | DN2 | Base | d1 | s | d1 | s | d3 | l1 | h1 | h2 | h2*) | l2 | d2 | A | bar | bar |
| 15 | 15 | 15/15 | 21.3 | 2.0 | 21.3 | 2.8 | G1/2 | 70 | 206 | 148 | 175 | 163 | 60 | 60 | 4-63 | 28-63 |

Table 13: Dimensions

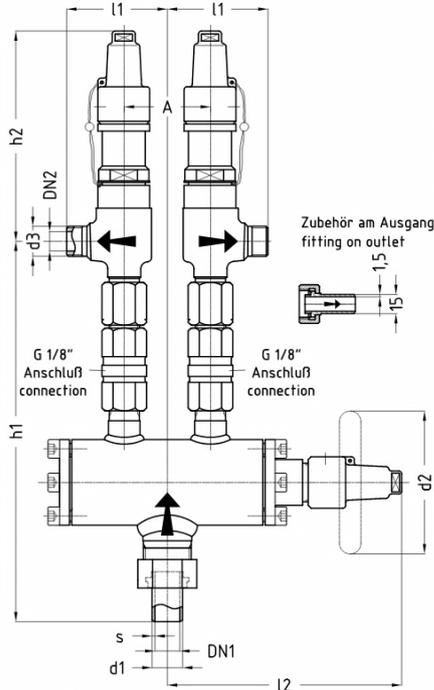
DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

17 WVR-SVUA BS SE

O: PTFE seat seal, **BS:** bursting discs, **SE:** screwed ends

O: PTFE seat seal, **BS:** bursting discs, **FL:** flanged ends, **HT:** Temperature up to +200°C

WVR-SVU BS steel change-over safety valve combination with bursting discs - back-pressure independent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Welding ends acc. to: | | Screwed ends acc. to: | | | | | | | | Response pressure range | | | | | |
|---------------|------------|-----------------------|--------------|-----------------------|------|-----|------|----|-----|-----|-----|-------------------------|----|----|------|-------|-----|
| DN* | Base valve | ISO Series 1 | ANSI Sched40 | d1 | s | d1 | s | d3 | l1 | h1 | h2 | h2*) | l2 | d2 | A | bar | bar |
| 15 | 15 | 15/15 | 21.3 | 2.0 | 21.3 | 2.8 | G1/2 | 70 | 268 | 148 | 175 | 163 | 60 | 60 | 4-63 | 28-63 | |

Table 14: Dimensions

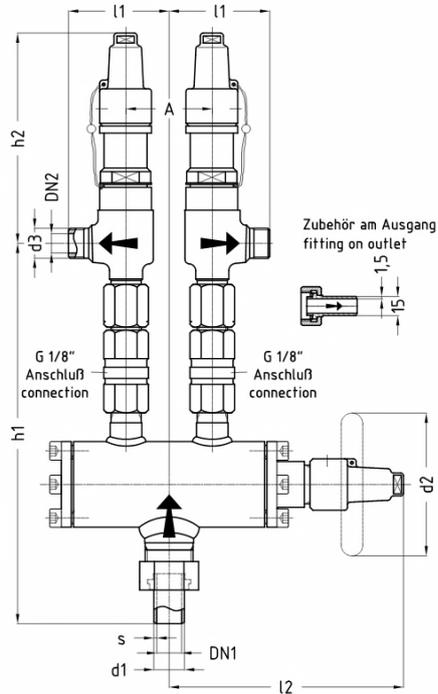
DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

18 WVR-SVUA BS SE NIRO

O: PTFE seat seal, **BS:** bursting discs, **SE:**screwed ends

O: PTFE seat seal, **BS:** bursting discs, **FL:** flanged ends, **HT:**Temperature up to +200°C

WVR-SVU BS stainless steel change-over safety valve combination with bursting discs - back-pressure independent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Welding ends acc. to: | | Screwed ends acc. to: | | | | | | Response pressure range | | | | | | |
|---------------|------------|-----------------------|--------------|-----------------------|------|-----|----|----|-----|-------------------------|------|-----|----|----|------|-------|
| DN* | Base valve | ISO Series 1 | ANSI Sched40 | | | | | | | | | | | | | h2*) |
| DN1 | DN2 | Base | d1 | s | d1 | s | d3 | l1 | h1 | h2 | h2*) | l2 | d2 | A | bar | bar |
| 15 | 25 | 15/15 | 21.3 | 2.0 | 21.3 | 2.8 | G1 | 70 | 288 | 148 | 175 | 163 | 60 | 60 | 4-63 | 28-63 |

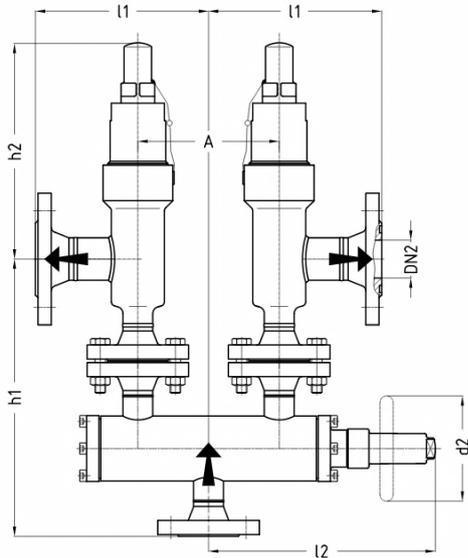
Table 15: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

19 WVR-SVUA P FL

O: PTFE seat seal, **P:** high-performance, **FL:** Flanged ends

WVR-SVU P steel change-over safety valve combination - back-pressure independent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Flanged ends acc. to: | | | | | | | | | | | Response pressure range | | | | | | |
|---------------|-----|-----------------------|-------|-----|-----|-------------|-----|----------|-----|-------------|-----|-----|-------------------------|-----|-----|-----|-----|------|----------|
| DN1 | DN2 | Base valve | Type* | AWP | | PN25/40 DIN | | PN63 DIN | | ANSI 300 RF | | h2 | h2*) | l2 | d2 | A | A* | bar | h2*) for |
| DN1 | DN2 | Base | Type | l1 | h1 | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | A* | bar | bar |
| 15 | 25 | 15/25 | | 160 | 281 | 156 | 300 | 187 | 321 | 172 | 330 | 207 | | 193 | 60 | 120 | 145 | 5-63 | |
| 15 | 25 | 15/25 | HB | | | 155 | 299 | | | | | 207 | | 193 | 60 | 120 | | 5-40 | |
| 20 | 25 | 15/25 | HB | | | 170 | 323 | | | | | 207 | | 208 | 60 | 150 | | 5-40 | |
| 25 | 25 | 15/25 | HBK | | | 160 | 292 | | | | | 207 | | 259 | 120 | 160 | | 5-40 | |
| 25 | 25 | 15/25 | HBJ | | | 180 | 302 | | | | | 207 | | 259 | 120 | 160 | | 5-40 | |

| Nominal size: | | | Flanged ends acc. to: | | | | | | | | | | | Response pressure range | | | | | |
|---------------|-----|--------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|------|-------|
| 20 | 32 | 20/32 | | 185 | 311 | 183 | 336 | 206 | 360 | 198 | 373 | 238 | 258 | 208 | 60 | 150 | 160 | 5-63 | 40-63 |
| 25 | 32 | 20/32 | HB | | | 180 | 302 | | | | | 238 | | 259 | 120 | 160 | | 5-40 | |
| 32 | 32 | 20/32 | HB | | | 195 | 311 | | | | | 238 | | 259 | 120 | 180 | | 5-40 | |
| 25 | 40 | 25/40 | | 190 | 330 | 196 | 318 | 221 | 372 | 213 | 365 | 246 | 266 | 259 | 120 | 160 | 175 | 5-63 | 24-63 |
| 32 | 40 | 25/40 | HB | | | 195 | 311 | | | | | 246 | 266 | 259 | 120 | 180 | | 5-40 | 24-40 |
| 40 | 40 | 25/40 | HB | | | 222 | 331 | | | | | 246 | 266 | 312 | 140 | 214 | | 5-40 | 24-40 |
| 32 | 50 | 32/50 | | 213 | 344 | 218 | 338 | | | 234 | 384 | 278 | | 259 | 120 | 180 | | 5-40 | |
| 40 | 50 | 32/50 | HB | | | 222 | 331 | | | | | 278 | | 312 | 140 | 214 | | 5-40 | |
| 50 | 50 | 32/50 | HB | | | 239 | 355 | | | | | 278 | | 319 | 140 | 228 | | 5-40 | |
| 40 | 65 | 40/65 | | 256 | 333 | 254 | 352 | | | 272 | 403 | 281 | | 312 | 140 | 214 | | 5-40 | |
| 50 | 65 | 40/65 | HB | | | 239 | 355 | | | | | 281 | | 319 | 140 | 228 | | 5-40 | |
| 65 | 65 | 40/65 | HB | | | 283 | 409 | | | | | 281 | | 350 | 140 | 276 | | 5-40 | |
| 50 | 80 | 50/80 | | | | 388 | 380 | | | | | 402 | | 454 | 140 | 325 | | 5-28 | |
| 65 | 100 | 65/100 | | | | 478 | 454 | | | | | 595 | | 483 | 140 | 393 | | 5-28 | |

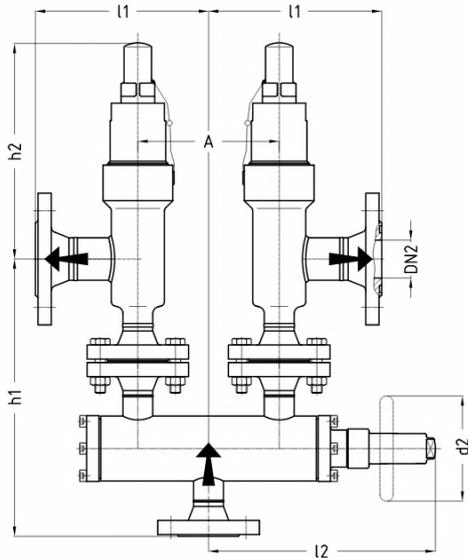
Table 16: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
 Type*: HB = installation lengths according to EN-standard, A*: for PN63 DIN-flange, DIN/EN flange facings with DIN 2512 tongue/groove as standard

20 WVR-SVUA P FL NIRO

O: PTFE seat seal, **P:** high-performance, **FL:** Flanged ends

WVR-SVU P stainless steel change-over safety valve combination - back-pressure independent for natural gases and liquids (e.g. NH₃, CO₂) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | | Flanged ends acc. to: | | | | | | | | | | | Response pressure range | | | | | |
|---------------|-----|-----------|-----------------------|---------|-----|--------|-----|------|-----|--------|-----|------|----|-------------------------|-----|-------------|-----|------|--|
| DN1 | DN2 | Base | Type* | AWP | | PN25/4 | | PN63 | | ANSI | | | | | | h2*) for | | | |
| | | | | DN10-20 | h1 | DIN | h1 | DIN | h1 | 300 RF | h2 | h2*) | l2 | d2 | A | A* | bar | bar | |
| 15 | 25 | 15/2 5 | | 160 | 281 | 156 | 300 | 187 | 321 | 172 | 330 | 207 | | 193 | 60 | 120 | 145 | 5-63 | |
| 15 | 25 | 15/2 5 | HB | | | 155 | 299 | | | | | 207 | | 193 | 60 | 120 | | 5-40 | |
| 20 | 25 | 15/2 5 | HB | | | 170 | 323 | | | | | 207 | | 208 | 60 | 150 | | 5-40 | |
| 25 | 25 | 15/2 5 | HBK | | | 160 | 292 | | | | | 207 | | 259 | 120 | 160 | | 5-40 | |
| 25 | 25 | 15/2 5 | HBJ | | | 180 | 302 | | | | | 207 | | 259 | 120 | 160 | | 5-40 | |

| Nominal size: | | | Flanged ends acc. to: | | | | | | | | | Response pressure range | | | | | | | |
|---------------|-----|--------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|-----|------|-------|
| 20 | 32 | 20/32 | | 185 | 311 | 183 | 336 | 206 | 360 | 198 | 373 | 238 | 258 | 208 | 60 | 150 | 160 | 5-63 | 40-63 |
| 25 | 32 | 20/32 | HB | | | 180 | 302 | | | | | 238 | | 259 | 120 | 160 | | 5-40 | |
| 32 | 32 | 20/32 | HB | | | 195 | 311 | | | | | 238 | | 259 | 120 | 180 | | 5-40 | |
| 25 | 40 | 25/40 | | 190 | 330 | 196 | 318 | 221 | 372 | 213 | 365 | 246 | 266 | 259 | 120 | 160 | 175 | 5-63 | 24-63 |
| 32 | 40 | 25/40 | HB | | | 195 | 311 | | | | | 246 | 266 | 259 | 120 | 180 | | 5-40 | 24-40 |
| 40 | 40 | 25/40 | HB | | | 222 | 331 | | | | | 246 | 266 | 312 | 140 | 214 | | 5-40 | 24-40 |
| 32 | 50 | 32/50 | | 213 | 344 | 218 | 338 | | | 234 | 384 | 278 | | 259 | 120 | 180 | | 5-40 | |
| 40 | 50 | 32/50 | HB | | | 222 | 331 | | | | | 278 | | 312 | 140 | 214 | | 5-40 | |
| 50 | 50 | 32/50 | HB | | | 239 | 355 | | | | | 278 | | 319 | 140 | 228 | | 5-40 | |
| 40 | 65 | 40/65 | | 256 | 333 | 254 | 352 | | | 272 | 403 | 281 | | 312 | 140 | 214 | | 5-40 | |
| 50 | 65 | 40/65 | HB | | | 239 | 355 | | | | | 281 | | 319 | 140 | 228 | | 5-40 | |
| 65 | 65 | 40/65 | HB | | | 283 | 409 | | | | | 281 | | 350 | 140 | 276 | | 5-40 | |
| 50 | 80 | 50/80 | | | | 388 | 380 | | | | | 402 | | 454 | 140 | 325 | | 5-28 | |
| 65 | 100 | 65/100 | | | | 478 | 454 | | | | | 595 | | 483 | 140 | 393 | | 5-28 | |

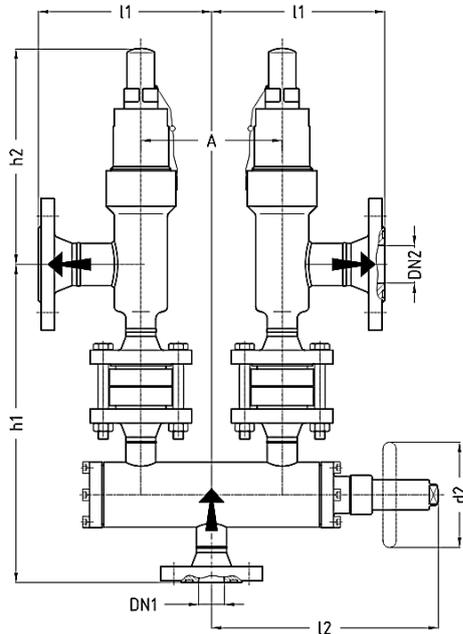
Table 17: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
 Type*: HB = installation lengths according to EN-standard, A*: for PN63 DIN-flange, DIN/EN flange facings with DIN 2512 tongue/groove as standard

21 WVR-SVUA P BS FL

O: PTFE seat seal, **P:** high-performance, **BS:** bursting discs, **FL:** Flanged ends

WVR-SVU P BS steel change-over safety valve combination with bursting discs - back-pressure independent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | | Flanged ends acc. to: | | | | | | Response pressure range | | | | | | |
|---------------|------------|-------|-----------------------|-----|----------|-----|--------|-----|-------------------------|------|-----|-----|-------------|------|-------|
| DN* | Base valve | Type* | AWP | | PN25/40 | | ANSI | | | | | | h2*) for | | |
| | | | DN10-20 | | DIN 2635 | | 300 RF | | | | | | | | |
| | | | PN25 | | EN1092-1 | | | | | | | | | | |
| | | | DN25-80 | | | | | | | | | | | | |
| | | | PN40 | | | | | | | | | | | | |
| DN1/ DN2 | Base | Type | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | bar | bar |
| 15/25 | 15/25 | | 160 | 322 | 156 | 341 | 172 | 371 | 207 | | 193 | 60 | 120 | 5-40 | |
| 15/25 | 15/25 | HB | | | 155 | 340 | | | 207 | | 193 | 60 | 120 | 5-40 | |
| 20/25 | 15/25 | HB | | | 170 | 364 | | | 207 | | 208 | 60 | 150 | 5-40 | |
| 25/25 | 15/25 | HBK | | | 160 | 333 | | | 207 | | 259 | 120 | 160 | 5-40 | |
| 25/25 | 15/25 | HBJ | | | 180 | 343 | | | 207 | | 259 | 120 | 160 | 5-40 | |
| 20/32 | 20/32 | | 185 | 352 | 183 | 377 | 198 | 414 | 238 | | 208 | 60 | 150 | 5-40 | |
| 25/32 | 20/32 | HB | | | 180 | 343 | | | 238 | | 259 | 120 | 160 | 5-40 | |
| 32/32 | 20/32 | HB | | | 195 | 352 | | | 238 | | 259 | 120 | 180 | 5-40 | |
| 25/40 | 25/40 | | 190 | 376 | 196 | 364 | 213 | 411 | 246 | 266 | 259 | 120 | 160 | 5-40 | 24-40 |
| 32/40 | 25/40 | HB | | | 195 | 357 | | | 246 | 266 | 259 | 120 | 180 | 5-40 | 24-40 |

| Nominal size: | | | Flanged ends acc. to: | | | | | | | | | | Response pressure range | | |
|---------------|--------|----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------|------|-------|
| 40/40 | 25/40 | HB | | | 222 | 377 | | | 246 | 266 | 312 | 140 | 214 | 5-40 | 24-40 |
| 32/50 | 32/50 | | 213 | 390 | 218 | 384 | 234 | 430 | 278 | | 259 | 120 | 180 | 5-40 | |
| 40/50 | 32/50 | HB | | | 222 | 377 | | | 278 | | 312 | 140 | 214 | 5-40 | |
| 50/50 | 32/50 | HB | | | 239 | 401 | | | 278 | | 319 | 140 | 228 | 5-40 | |
| 40/65 | 40/65 | | 256 | 379 | 254 | 398 | 272 | 449 | 281 | | 312 | 140 | 214 | 5-40 | |
| 50/65 | 40/65 | HB | | | 239 | 401 | | | 281 | | 319 | 140 | 228 | 5-40 | |
| 65/65 | 40/65 | HB | | | 283 | 455 | | | 281 | | 350 | 140 | 276 | 5-40 | |
| 50/80 | 50/80 | HB | | | 388 | 433 | | | 402 | | 454 | 140 | 325 | 5-28 | |
| 65/100 | 65/100 | HB | | | 478 | 511 | | | 595 | | 483 | 140 | 393 | 5-28 | |

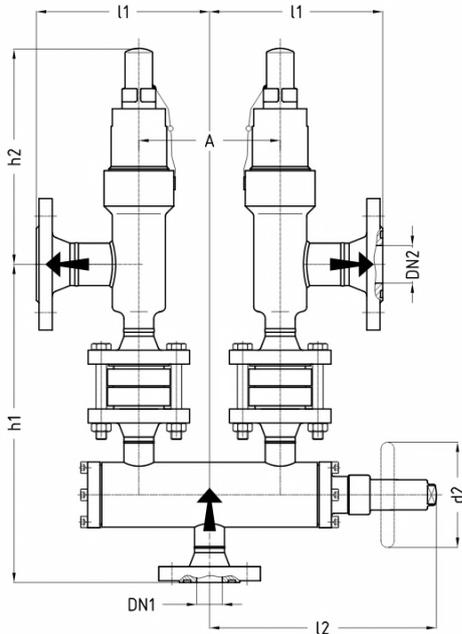
Table 18: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
 Type*: HB = installation lengths according to EN-standard, DIN/EN flange facings with DIN 2512 tongue/groove as standard

22 WVR-SVUA P BS FL NIRO

O: PTFE seat seal, **P:** high-performance, **BS:** bursting discs, **FL:** Flanged ends

WVR-SVU P BS stainless steel change-over safety valve combination with bursting discs - back-pressure independent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | | Flanged ends acc. to: | | | | | | Response pressure range | | | | | | |
|---------------|------------|-------|-----------------------|-----|----------|-----|--------|-----|-------------------------|------|-----|-----|-------------|------|-------|
| DN* | Base valve | Type* | AWP | | PN25/40 | | ANSI | | | | | | h2*) for | | |
| | | | DN10-20 | | DIN 2635 | | 300 RF | | | | | | | | |
| | | | PN25 | | EN1092-1 | | | | | | | | | | |
| | | | DN25-80 | | | | | | | | | | | | |
| | | | PN40 | | | | | | | | | | | | |
| DN1/ DN2 | Base | Type | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | bar | bar |
| 15/25 | 15/25 | | 160 | 322 | 156 | 341 | 172 | 371 | 207 | | 193 | 60 | 120 | 5-40 | |
| 15/25 | 15/25 | HB | | | 155 | 340 | | | 207 | | 193 | 60 | 120 | 5-40 | |
| 20/25 | 15/25 | HB | | | 170 | 364 | | | 207 | | 208 | 60 | 150 | 5-40 | |
| 25/25 | 15/25 | HBK | | | 160 | 333 | | | 207 | | 259 | 120 | 160 | 5-40 | |
| 25/25 | 15/25 | HBJ | | | 180 | 343 | | | 207 | | 259 | 120 | 160 | 5-40 | |
| 20/32 | 20/32 | | 185 | 352 | 183 | 377 | 198 | 414 | 238 | | 208 | 60 | 150 | 5-40 | |
| 25/32 | 20/32 | HB | | | 180 | 343 | | | 238 | | 259 | 120 | 160 | 5-40 | |
| 32/32 | 20/32 | HB | | | 195 | 352 | | | 238 | | 259 | 120 | 180 | 5-40 | |
| 25/40 | 25/40 | | 190 | 376 | 196 | 364 | 213 | 411 | 246 | 266 | 259 | 120 | 160 | 5-40 | 24-40 |
| 32/40 | 25/40 | HB | | | 195 | 357 | | | 246 | 266 | 259 | 120 | 180 | 5-40 | 24-40 |

| Nominal size: | | | Flanged ends acc. to: | | | | | | | | | | Response pressure range | | |
|---------------|--------|----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------|------|-------|
| 40/40 | 25/40 | HB | | | 222 | 377 | | | 246 | 266 | 312 | 140 | 214 | 5-40 | 24-40 |
| 32/50 | 32/50 | | 213 | 390 | 218 | 384 | 234 | 430 | 278 | | 259 | 120 | 180 | 5-40 | |
| 40/50 | 32/50 | HB | | | 222 | 377 | | | 278 | | 312 | 140 | 214 | 5-40 | |
| 50/50 | 32/50 | HB | | | 239 | 401 | | | 278 | | 319 | 140 | 228 | 5-40 | |
| 40/65 | 40/65 | | 256 | 379 | 254 | 398 | 272 | 449 | 281 | | 312 | 140 | 214 | 5-40 | |
| 50/65 | 40/65 | HB | | | 239 | 401 | | | 281 | | 319 | 140 | 228 | 5-40 | |
| 65/65 | 40/65 | HB | | | 283 | 455 | | | 281 | | 350 | 140 | 276 | 5-40 | |
| 50/80 | 50/80 | HB | | | 388 | 433 | | | 402 | | 454 | 140 | 325 | 5-28 | |
| 65/100 | 65/100 | HB | | | 478 | 511 | | | 595 | | 483 | 140 | 393 | 5-28 | |

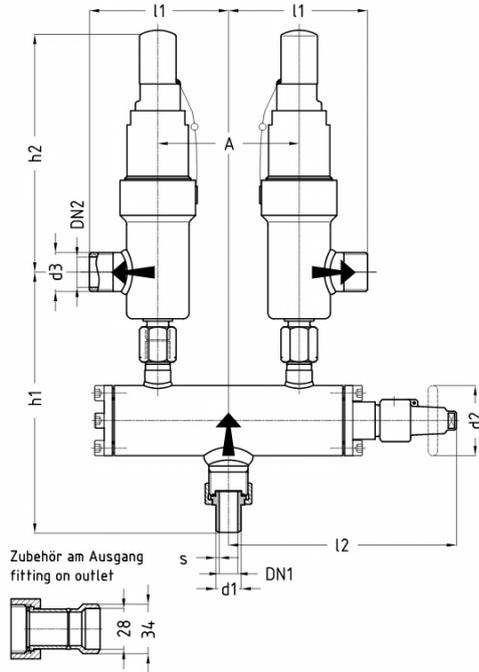
Table 19: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
 Type*: HB = installation lengths according to EN-standard, DIN/EN flange facings with DIN 2512 tongue/groove as standard

23 WVR-SVUA P SE

O: PTFE seat seal, **P:** high-performance, **SE:** Screwed ends

WVR-SVU P steel change-over safety valve combination - back-pressure independent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | | Welding ends acc. to: | | | | Screwed ends acc. to: | | | | | | Response pressure range | |
|---------------|-----|------------|-----------------------|-----|--------------|-----|-----------------------|-----|-----|-----|-----|----|-------------------------|------|
| DN* | | Base valve | ISO Series 1 | | ANSI Sched40 | | | | | | | | | |
| DN1 | DN2 | Base | d1 | s | d1 | s | d3 | l1 | h1 | h2 | l2 | d2 | A | bar |
| 15 | 25 | 15/25 | 21.3 | 2.0 | 21.3 | 2.8 | G1 | 118 | 223 | 207 | 193 | 60 | 120 | 5-63 |

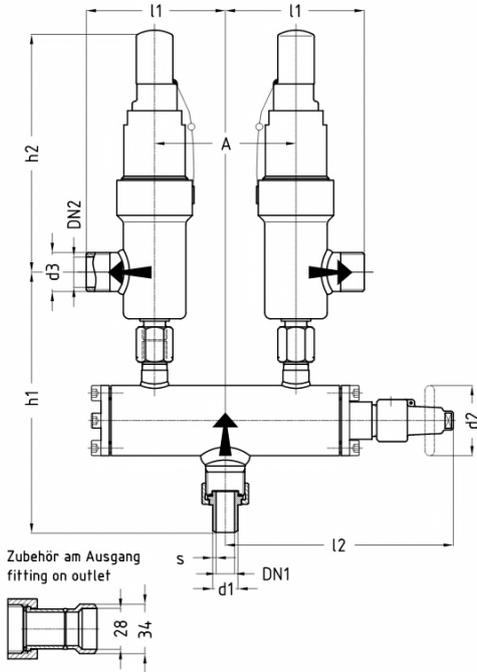
Table 20: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

24 WVR-SVUA P SE NIRO

O: PTFE seat seal, **P:** high-performance, **SE:** Screwed ends

WVR-SVU P stainless steel change-over safety valve combination - back-pressure independent for natural gases and liquids (e.g. NH₃, CO₂) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Welding ends acc. to: | | Screwed ends acc. to: | | | | | | Response pressure range | | | | |
|---------------|-----|-----------------------|------|-----------------------|------|--------------|----|-----|-----|-------------------------|-----|----|-----|------|
| DN* | | Base valve | | ISO Series 1 | | ANSI Sched40 | | | | | | | | |
| DN1 | DN2 | Base | d1 | s | d1 | s | d3 | l1 | h1 | h2 | l2 | d2 | A | bar |
| 15 | 25 | 15/25 | 21.3 | 2.0 | 21.3 | 2.8 | G1 | 118 | 223 | 207 | 193 | 60 | 120 | 5-63 |

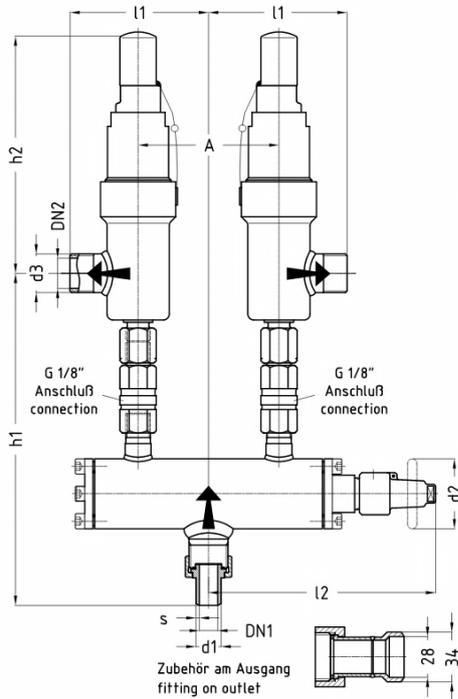
Table 21: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

25 WVR-SVUA P BS SE

O: PTFE seat seal, **P:** high-performance, **BS:** bursting discs, **SE:** Screwed ends

WVR-SVU P BS steel change-over safety valve combination with bursting discs - back-pressure independent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | | Welding ends acc. to: | | | | Screwed ends acc. to: | | | | | | Response pressure range | |
|---------------|-----|------------|-----------------------|-----|--------------|-----|-----------------------|-----|-----|-----|-----|----|-------------------------|------|
| DN* | | Base valve | ISO Series 1 | | ANSI Sched40 | | | | | | | | | |
| DN1 | DN2 | Base | d1 | s | d1 | s | d3 | l1 | h1 | h2 | l2 | d2 | A | bar |
| 15 | 25 | 15/25 | 21.3 | 2.0 | 21.3 | 2.8 | G1 | 118 | 285 | 207 | 193 | 60 | 120 | 5-63 |

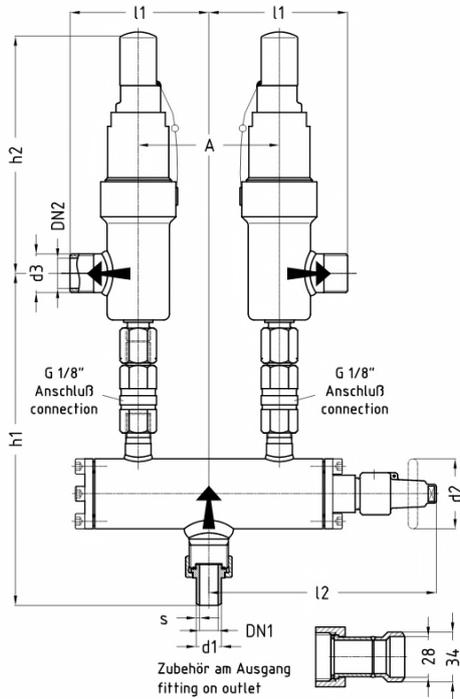
Table 22: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

26 WVR-SVUA P BS SE NIRO

O: PTFE seat seal, **P:** high-performance, **BS:** bursting discs, **SE:** Screwed ends

WVR-SVU P BS stainless steel change-over safety valve combination with bursting discs - back-pressure independent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Welding ends acc. to: | | Screwed ends acc. to: | | | | | | Response pressure range | | | | |
|---------------|-----|-----------------------|------|-----------------------|------|--------------|----|-----|-----|-------------------------|-----|----|-----|------|
| DN* | | Base valve | | ISO Series 1 | | ANSI Sched40 | | | | | | | | |
| DN1 | DN2 | Base | d1 | s | d1 | s | d3 | l1 | h1 | h2 | l2 | d2 | A | bar |
| 15 | 25 | 15/25 | 21.3 | 2.0 | 21.3 | 2.8 | G1 | 118 | 285 | 207 | 193 | 60 | 120 | 5-63 |

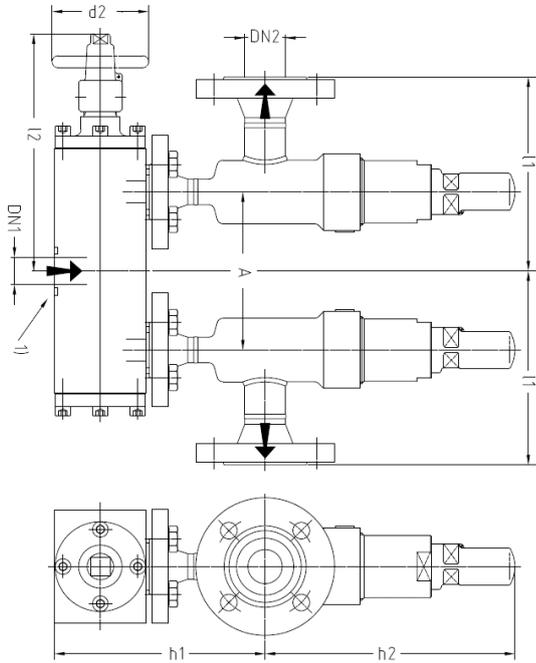
Table 23: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

27 WVR AL-SVAA FL / WVR AL-SVAB FL

AL: WVR body made of aluminium **A:** PTFE seat seal, **B:** elastomer seat seal, **FL:** Flanged ends

WVR AL-SVA steel change-over safety valve combination - back-pressure dependent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Flanged ends acc. to: | | | | | | | | | | | | | | Re-response pressure range | | | |
|---------------|-------|-----------------------|-------|-----|-----|---------|-----|------|-----|------|-----|-----|------|-----|----|----------------------------|-----|------|----------|
| DN1 | D N 2 | Base valve | Type* | AWP | | PN25/40 | | PN63 | | ANSI | | h2 | h2*) | l2 | d2 | A | A* | bar | h2*) for |
| DN1 | D N 2 | Base valve | Type | l1 | h1 | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | A* | bar | bar |
| 15 | 25 | 15/25 | | 160 | 169 | 156 | 176 | 187 | 183 | 178 | 192 | 207 | | 193 | 60 | 120 | 145 | 5-63 | |
| 15 | 25 | 15/25 | HB | | | 155 | 175 | | | 25 | | 207 | | 193 | 60 | 120 | | 5-40 | |

| Nominal size: | | | | Flanged ends acc. to: | | | | | | | | | | Re-response pressure range | | | | | |
|---------------|----|----|-----|-----------------------|-----|----|----|----|----|-----|----|-----|-----|----------------------------|-----|-----|-----|-----|------|
| 20 | 25 | 15 | HB | | | 17 | 17 | | | | | 207 | | 208 | 60 | 150 | | 5-4 | 0 |
| | | /2 | | | | 0 | 5 | | | | | | | | | | | | |
| | | 5 | | | | | | | | | | | | | | | | | |
| 25 | 25 | 15 | HBK | | | 16 | 19 | | | | | 207 | | 259 | 120 | 160 | | 5-4 | 0 |
| | | /2 | | | | 0 | 0 | | | | | | | | | | | | |
| | | 5 | | | | | | | | | | | | | | | | | |
| 25 | 25 | 15 | HBJ | | | 18 | 20 | | | | | 207 | | 259 | 120 | 160 | | 5-4 | 0 |
| | | /2 | | | | 0 | 0 | | | | | | | | | | | | |
| | | 5 | | | | | | | | | | | | | | | | | |
| 20 | 32 | 20 | | 185 | 179 | 18 | 18 | 21 | 19 | 206 | 20 | 238 | 258 | 208 | 60 | 150 | 160 | 5-6 | 40-6 |
| | | /3 | | | | 3 | 8 | 4 | 6 | 7 | | | | | | | | 3 | 3 |
| | | 2 | | | | | | | | | | | | | | | | | |
| 25 | 32 | 20 | HB | | | 18 | 20 | | | | | 238 | | 259 | 120 | 160 | | 5-4 | 0 |
| | | /3 | | | | 0 | 0 | | | | | | | | | | | | |
| | | 2 | | | | | | | | | | | | | | | | | |
| 32 | 32 | 20 | HB | | | 20 | 20 | | | | | 238 | | 279 | 120 | 194 | | 5-4 | 0 |
| | | /3 | | | | 2 | 5 | | | | | | | | | | | | |
| | | 2 | | | | | | | | | | | | | | | | | |
| 25 | 40 | 25 | | 190 | 219 | 19 | 21 | 22 | 24 | 219 | 24 | 246 | 266 | 259 | 120 | 160 | 175 | 5-6 | 24-6 |
| | | /4 | | | | 6 | 6 | 9 | 9 | 0 | | | | | | | | 3 | 3 |
| | | 0 | | | | | | | | | | | | | | | | | |
| 32 | 40 | 25 | HB | | | 20 | 20 | | | | | 246 | 266 | 279 | 120 | 194 | | 5-4 | 24-4 |
| | | /4 | | | | 2 | 5 | | | | | | | | | | | 0 | 0 |
| | | 0 | | | | | | | | | | | | | | | | | |
| 32 | 50 | 32 | | 214 | 229 | 21 | 22 | | | 241 | 25 | 278 | | 279 | 120 | 194 | | 5-4 | 0 |
| | | /5 | | | | 9 | 8 | | | 3 | | | | | | | | | |
| | | 0 | | | | | | | | | | | | | | | | | |

Table 24: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

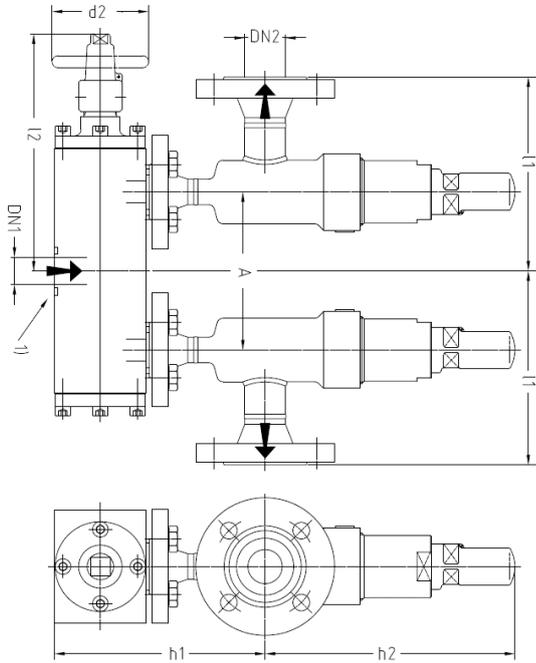
Type*: HB = installation lengths according to EN-standard, A*: for PN63 DIN-flange

DIN/EN flange facings with DIN 2512 tongue/groove as standard

28 WVR AL-SVAA FL / WVR AL-SVAB FL

AL: WVR body made of aluminium **A:** PTFE seat seal, **B:** elastomer seat seal, **FL:** Flanged ends

WVR AL-SVA stainless steel change-over safety valve combination - back-pressure dependent for natural gases and liquids (e.g. NH₃, CO₂) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Flanged ends acc. to: | | | | | | | | | | | | | Re-response pressure range | | | | |
|---------------|-------|-----------------------|-------|-----|-----|---------|-----|------|-----|------|-----|-----|------|-----|----------------------------|-----|-----|------|----------|
| DN1 | D N 2 | Base valve | Type* | AWP | | PN25/40 | | PN63 | | ANSI | | h2 | h2*) | l2 | d2 | A | A* | bar | h2*) for |
| DN1 | D N 2 | Base valve | Type | l1 | h1 | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | A* | bar | bar |
| 15 | 25 | 15/25 | | 160 | 169 | 156 | 176 | 187 | 183 | 178 | 192 | 207 | | 193 | 60 | 120 | 145 | 5-63 | |
| 15 | 25 | 15/25 | HB | | | 155 | 175 | | | | | 207 | | 193 | 60 | 120 | | 5-40 | |

| Nominal size: | | | Flanged ends acc. to: | | | | | | | | | | Re-response pressure range | | | | | | |
|---------------|----|----|-----------------------|-----|-----|----|----|----|----|-----|----|-----|----------------------------|-----|-----|-----|-----|-----|------|
| 20 | 25 | 15 | HB | | | 17 | 17 | | | | | 207 | | 208 | 60 | 150 | | 5-4 | 0 |
| | | /2 | | | | 0 | 5 | | | | | | | | | | | | |
| | | 5 | | | | | | | | | | | | | | | | | |
| 25 | 25 | 15 | HBK | | | 16 | 19 | | | | | 207 | | 259 | 120 | 160 | | 5-4 | 0 |
| | | /2 | | | | 0 | 0 | | | | | | | | | | | | |
| | | 5 | | | | | | | | | | | | | | | | | |
| 25 | 25 | 15 | HBJ | | | 18 | 20 | | | | | 207 | | 259 | 120 | 160 | | 5-4 | 0 |
| | | /2 | | | | 0 | 0 | | | | | | | | | | | | |
| | | 5 | | | | | | | | | | | | | | | | | |
| 20 | 32 | 20 | | 185 | 179 | 18 | 18 | 21 | 19 | 206 | 20 | 238 | 258 | 208 | 60 | 150 | 160 | 5-6 | 40-6 |
| | | /3 | | | | 3 | 8 | 4 | 6 | 7 | | | | | | | | 3 | 3 |
| | | 2 | | | | | | | | | | | | | | | | | |
| 25 | 32 | 20 | HB | | | 18 | 20 | | | | | 238 | | 259 | 120 | 160 | | 5-4 | 0 |
| | | /3 | | | | 0 | 0 | | | | | | | | | | | | |
| | | 2 | | | | | | | | | | | | | | | | | |
| 32 | 32 | 20 | HB | | | 20 | 20 | | | | | 238 | | 279 | 120 | 194 | | 5-4 | 0 |
| | | /3 | | | | 2 | 5 | | | | | | | | | | | | |
| | | 2 | | | | | | | | | | | | | | | | | |
| 25 | 40 | 25 | | 190 | 219 | 19 | 21 | 22 | 24 | 219 | 24 | 246 | 266 | 259 | 120 | 160 | 175 | 5-6 | 24-6 |
| | | /4 | | | | 6 | 6 | 9 | 9 | 0 | | | | | | | | 3 | 3 |
| | | 0 | | | | | | | | | | | | | | | | | |
| 32 | 40 | 25 | HB | | | 20 | 20 | | | | | 246 | 266 | 279 | 120 | 194 | | 5-4 | 24-4 |
| | | /4 | | | | 2 | 5 | | | | | | | | | | | 0 | 0 |
| | | 0 | | | | | | | | | | | | | | | | | |
| 32 | 50 | 32 | | 214 | 229 | 21 | 22 | | | 241 | 25 | 278 | | 279 | 120 | 194 | | 5-4 | 0 |
| | | /5 | | | | 9 | 8 | | | 3 | | | | | | | | | |
| | | 0 | | | | | | | | | | | | | | | | | |

Table 25: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

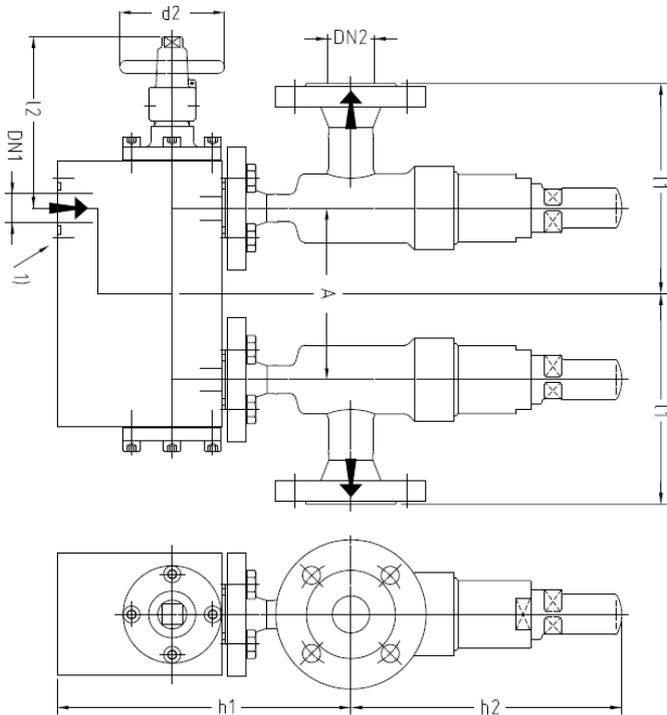
Type*: HB = installation lengths according to EN-standard, A*): for PN63 DIN-flange

DIN/EN flange facings with DIN 2512 tongue/groove as standard

29 WVR AL-SVAA FL Herl T24.1V / WVR AL-SVAB FL Herl T24.1V

AL: WVR body made of aluminium **A:** PTFE seat seal, **B:** elastomer seat seal, **FL:** Flanged ends

WVR AL-SVA steel change-over safety valve combination - back-pressure dependent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | | Flanged ends acc. to: | | | | | Response pressure range | | | | |
|---------------|-----|------------|-----------------------|---------|----------|---------------------------------|-----|-------------------------|-----|-----|-----|------|
| DN1 | DN2 | Base valve | Type* | Type SV | Type WVR | PN25/40 DIN 2635 EN1092-1 | h1 | h2 | l2 | d2 | A | bar |
| 15 | 25 | 15/25 | HB | T23V | T25V | 157.5 | 244 | 207 | 133 | 60 | 125 | 5-40 |
| 20 | 25 | 15/25 | HB | T23V | T25V | 157.5 | 244 | 207 | 133 | 60 | 125 | 5-40 |
| 25 | 32 | 20/32 | HB | T23V | T25V | 166.5 | 259 | 238 | 178 | 120 | 133 | 5-40 |
| 32 | 32 | 20/32 | HB | T23V | T25V | 186.5 | 284 | 238 | 183 | 120 | 173 | 5-40 |
| 32 | 40 | 25/40 | HB | T23V | T25V | 191.5 | 284 | 246 | 183 | 120 | 173 | 5-40 |
| 40 | 40 | 25/40 | HB | T23V | T25V | 201.5 | 314 | 246 | 210 | 140 | 193 | 5-40 |

| Nominal size: | | | | Flanged ends acc. to: | | | | | Response pressure range | | | |
|---------------|----|-------|----|-----------------------|------|-------|-----|-----|-------------------------|-----|-----|------|
| 40 | 50 | 32/50 | HB | T23V | T25V | 211.5 | 314 | 278 | 210 | 140 | 193 | 5-40 |
| 50 | 50 | 32/50 | HB | T23V | T25V | 211.5 | 354 | 278 | 216 | 140 | 193 | 5-40 |
| 50 | 65 | 40/65 | HB | T23V | T25V | 221.5 | 354 | 281 | 216 | 140 | 193 | 5-40 |

Table 26: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

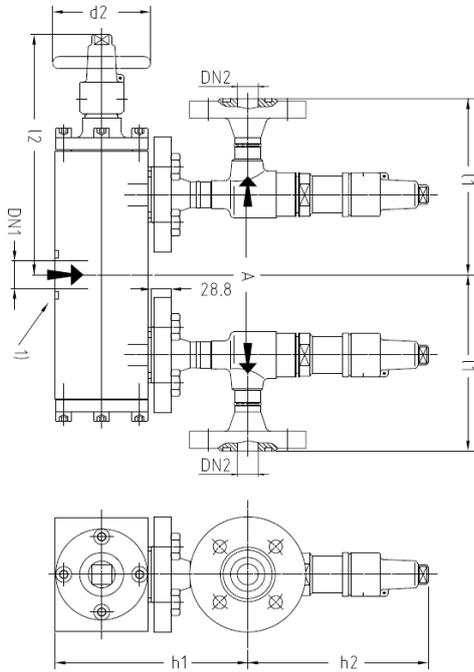
Type*: HB = installation lengths according to EN-standard

DIN/EN flange facings with DIN 2512 tongue/groove as standard

30 WVR AL-SVUA FL / WVR AL-SVUB FL

AL: WVR body made of aluminium **A:** PTFE seat seal, **B:** elastomer seat seal, **FL:** Flanged ends

WVR AL-SVU steel change-over safety valve combination - back-pressure independent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | | Flanged ends acc. to: | | | | | | | | | | | Response pressure range | | | | |
|---------------|------------|-------|-----------------------|----------|------|----------|---------|-----|----------|--------|------|------|-----|-------------------------|-----|-----|------|-------|
| DN* | Base valve | Type* | AWP | | | | PN25/40 | | PN63 | | ANSI | | | | | | | h2*) |
| | | | DN10-20 | DIN 2635 | PN25 | EN1092-1 | | | DIN 2636 | 300 RF | | | | | | | | for |
| DN1/ DN2 | Base | Type | l1 | h1 | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | A* | bar | bar |
| 15/15 | 15/15 | | 132 | 151 | 138 | 159 | 159 | 166 | 153 | 175 | 148 | 173 | 193 | 60 | 120 | 145 | 4-63 | 28-63 |
| 15/25 | 15/15 | HB | | | 155 | 175 | | | | | 148 | 173 | 193 | 60 | 120 | | 4-40 | 28-40 |
| 20/25 | 15/15 | HB | | | 170 | 175 | | | | | 148 | 173 | 208 | 60 | 150 | | 4-40 | 28-40 |
| 25/25 | 15/15 | HBJ | | | 180 | 200 | | | | | 148 | 173 | 259 | 120 | 160 | | 4-40 | 28-40 |

Table 27: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

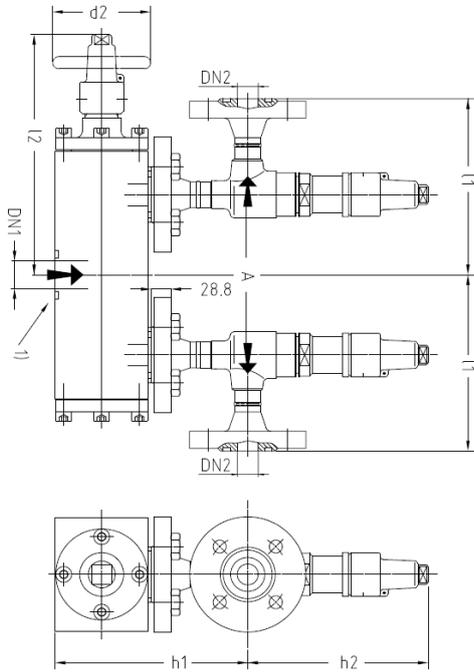
Type*: HB = installation lengths according to EN-standard, A*: for PN63

DIN-flange DIN/EN flange facings with DIN 2512 tongue/groove as standard

31 WVR AL-SVUA FL NIRO / WVR AL-SVUB FL NIRO

AL: WVR body made of aluminium **A:** PTFE seat seal, **B:** elastomer seat seal, **FL:** Flanged ends

WVR AL-SVU stainless steel change-over safety valve combination - back-pressure independent for natural gases and liquids (e.g. NH₃, CO₂) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Flanged ends acc. to: | | | | | | | | | | | Response pressure range | | | | | |
|---------------|------------|-----------------------|-----|-----|---------|-----|------|-----|------|-----|-----|------|-------------------------|-----|-----|-----|------|-------|
| DN* | Base valve | Type* | AWP | | PN25/40 | | PN63 | | ANSI | | | | | | | | h2*) | |
| DN1/ DN2 | Base | Type | l1 | h1 | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | A* | bar | bar |
| 15/15 | 15/15 | | 132 | 151 | 138 | 159 | 159 | 166 | 153 | 175 | 148 | 173 | 193 | 60 | 120 | 145 | 4-63 | 28-63 |
| 15/25 | 15/15 | HB | | | 155 | 175 | | | | | 148 | 173 | 193 | 60 | 120 | | 4-40 | 28-40 |
| 20/25 | 15/15 | HB | | | 170 | 175 | | | | | 148 | 173 | 208 | 60 | 150 | | 4-40 | 28-40 |
| 25/25 | 15/15 | HBJ | | | 180 | 200 | | | | | 148 | 173 | 259 | 120 | 160 | | 4-40 | 28-40 |

Table 28: Dimensions

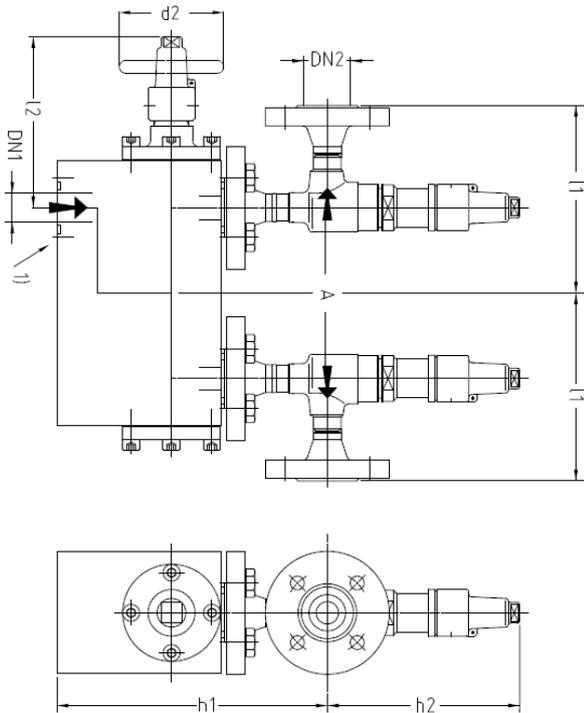
DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

Type*: HB = installation lengths according to EN-standard, A*: for PN63

DIN-flange DIN/EN flange facings with DIN 2512 tongue/groove as standard

32 WVR AL-SVUA FL Herl T19.1F / WVR AL-SVUB FL Herl T19.1F

AL: WVR body made of aluminium **A:** PTFE seat seal, **B:** elastomer seat seal, **FL:** Flanged ends
 WVR AL-SVU steel change-over safety valve combination - back-pressure independent for natural refrigerants (NH3, CO2) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | | Flanged ends acc. to: | | | | | | Response pressure range | | | | | | |
|---------------|-----|------------|-----------------------|---------|----------|---------|----------|----------|-------------------------|-----|-----|------|----|---|-----|
| DN1 | DN2 | Base valve | Type* | Type SV | Type WVR | PN25/40 | DIN 2635 | EN1092-1 | l1 | h1 | h2 | l2 | d2 | A | bar |
| 15 | 25 | 15/15 | HB | T21.1F | T25V | 16 | 250 | 148 | 133 | 60 | 125 | 5-40 | | | |
| 25 | 25 | 15/15 | HBJ | T21.1F | T25V | 16 | 260 | 148 | 178 | 120 | 133 | 5-40 | | | |

Table 29: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

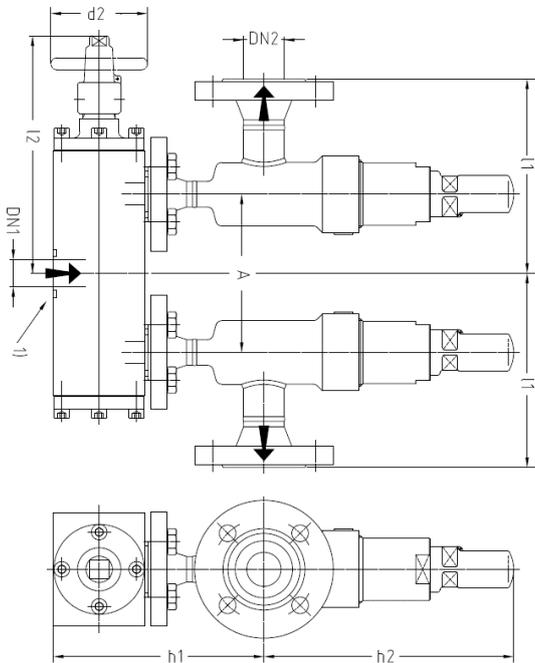
Type*: HB = installation lengths according to EN-standard

DIN/EN flange facings with DIN 2512 tongue/groove as standard

33 WVR AL-SVUA P FL / WVR AL-SVUB P FL

AL: WVR body made of aluminium **A:** PTFE seat seal, **B:** elastomer seat seal, **P:** high-performance, **FL:** Flanged ends

WVR AL-SVU P steel change-over safety valve combination - back-pressure independent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | | Flanged ends acc. to: | | | | | | | | | | | Re-sponse pressure range | | | | | |
|---------------|-------------|---------------|--|--|-------------------------------------|----------------|---------|---------|---------|----------------|-----|-----|------|--------------------------|----|-----|-----|----------|-------------|
| | Base valve | Type* | AWP DN10-20 PN25 DN25-80 PN40 | PN25/4 0 DIN 2635 EN109 2-1 | PN63 DIN 2636 EN10 92-1 | ANSI 300 RF | | | | | | | | | | | | | h2*) for |
| DN1 | D N 2 | Ba se | Type | l1 | h1 | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | A* | bar | bar |
| 15 | 25 | 15 /2 5 | | 160 | 169 | 15 6 | 17 6 | 18 7 | 18 3 | 178 19 2 | 207 | | | 193 | 60 | 120 | 145 | 5-6 3 | |
| 15 | 25 | 15 /2 5 | HB | | | 15 5 | 17 5 | | | | | 207 | | 193 | 60 | 120 | | 5-4 0 | |

| Nominal size: | | Flanged ends acc. to: | | | | | | | | | | | | | | Re- sponse pressure range | | | |
|---------------|----|-----------------------|-----|-----|-----|----|----|----|----|-----|----|-----|-----|-----|-----|------------------------------------|-----|-----|------|
| 20 | 25 | 15 | HB | | | 17 | 17 | | | | | 207 | | 208 | 60 | 150 | | 5-4 | |
| | | /2 | | | | 0 | 5 | | | | | | | | | | | 0 | |
| | | 5 | | | | | | | | | | | | | | | | | |
| 25 | 25 | 15 | HBK | | | 16 | 19 | | | | | 207 | | 259 | 120 | 160 | | 5-4 | |
| | | /2 | | | | 0 | 0 | | | | | | | | | | | 0 | |
| | | 5 | | | | | | | | | | | | | | | | | |
| 25 | 25 | 15 | HBJ | | | 18 | 20 | | | | | 207 | | 259 | 120 | 160 | | 5-4 | |
| | | /2 | | | | 0 | 0 | | | | | | | | | | | 0 | |
| | | 5 | | | | | | | | | | | | | | | | | |
| 20 | 32 | 20 | | 185 | 179 | 18 | 18 | 21 | 19 | 206 | 20 | 238 | 258 | 208 | 60 | 150 | 160 | 5-6 | 40-6 |
| | | /3 | | | | 3 | 8 | 4 | 6 | 7 | | | | | | | | 3 | 3 |
| | | 2 | | | | | | | | | | | | | | | | | |
| 25 | 32 | 20 | HB | | | 18 | 20 | | | | | 238 | | 259 | 120 | 160 | | 5-4 | |
| | | /3 | | | | 0 | 0 | | | | | | | | | | | 0 | |
| | | 2 | | | | | | | | | | | | | | | | | |
| 32 | 32 | 20 | HB | | | 20 | 20 | | | | | 238 | | 279 | 120 | 194 | | 5-4 | |
| | | /3 | | | | 2 | 5 | | | | | | | | | | | 0 | |
| | | 2 | | | | | | | | | | | | | | | | | |
| 25 | 40 | 25 | | 190 | 219 | 19 | 21 | 22 | 24 | 219 | 24 | 246 | 266 | 259 | 120 | 160 | 175 | 5-6 | 24-6 |
| | | /4 | | | | 6 | 6 | 9 | 9 | 0 | | | | | | | | 3 | 3 |
| | | 0 | | | | | | | | | | | | | | | | | |
| 32 | 40 | 25 | HB | | | 20 | 20 | | | | | 246 | 266 | 279 | 120 | 194 | | 5-4 | 24-4 |
| | | /4 | | | | 2 | 5 | | | | | | | | | | | 0 | 0 |
| | | 0 | | | | | | | | | | | | | | | | | |
| 32 | 50 | 32 | | 214 | 229 | 21 | 22 | | | 241 | 25 | 278 | | 279 | 120 | 194 | | 5-4 | |
| | | /5 | | | | 9 | 8 | | | 3 | | | | | | | | 0 | |
| | | 0 | | | | | | | | | | | | | | | | | |

Table 30: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

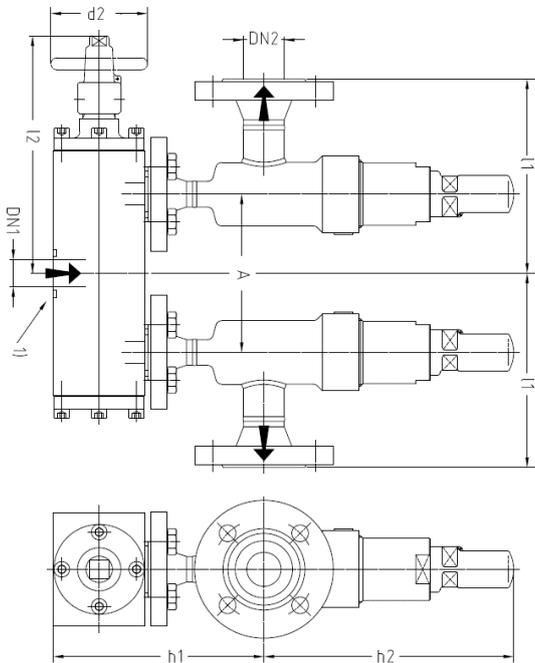
Type*: HB = installation lengths according to EN-standard, A*): for PN63 DIN-flange

DIN/EN flange facings with DIN 2512 tongue/groove as standard

34 WVR AL-SVUA P FL / WVR AL-SVUB P FL

AL: WVR body made of aluminium **A:** PTFE seat seal, **B:** elastomer seat seal, **P:** high-performance, **FL:** Flanged ends

WVR AL-SVU P stainless steel change-over safety valve combination - back-pressure independent for natural gases and liquids (e.g. NH₃, CO₂) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | | Flanged ends acc. to: | | | | | | | | | | | Re-sponse pressure range | | | | | |
|---------------|-------------|---------------|--|-----------------------------------|-------------------------------|-------------|---------|---------|---------|----------------|-----|-----|------|--------------------------|----|-----|-----|----------|-------------|
| | Base valve | Type* | AWP DN10-20 PN25 DN25-80 PN40 | PN25/4 0 DIN 2635 EN109 2-1 | PN63 DIN 2636 EN10 92-1 | ANSI 300 RF | | | | | | | | | | | | | h2*) for |
| DN1 | D N 2 | Ba se | Type | l1 | h1 | l1 | h1 | l1 | h1 | l1 | h1 | h2 | h2*) | l2 | d2 | A | A* | bar | bar |
| 15 | 25 | 15 /2 5 | | 160 | 169 | 15 6 | 17 6 | 18 7 | 18 3 | 178 19 2 | 207 | | | 193 | 60 | 120 | 145 | 5-6 3 | |
| 15 | 25 | 15 /2 5 | HB | | | 15 5 | 17 5 | | | | | 207 | | 193 | 60 | 120 | | 5-4 0 | |

| Nominal size: | | Flanged ends acc. to: | | | | | | | | | | | | | | Re- sponse pressure range | | | |
|---------------|----|-----------------------|-----|-----|-----|----|----|----|----|-----|----|-----|-----|-----|-----|------------------------------------|-----|-----|------|
| 20 | 25 | 15 | HB | | | 17 | 17 | | | | | 207 | | 208 | 60 | 150 | | 5-4 | |
| | | /2 | | | | 0 | 5 | | | | | | | | | | | 0 | |
| | | 5 | | | | | | | | | | | | | | | | | |
| 25 | 25 | 15 | HBK | | | 16 | 19 | | | | | 207 | | 259 | 120 | 160 | | 5-4 | |
| | | /2 | | | | 0 | 0 | | | | | | | | | | | 0 | |
| | | 5 | | | | | | | | | | | | | | | | | |
| 25 | 25 | 15 | HBJ | | | 18 | 20 | | | | | 207 | | 259 | 120 | 160 | | 5-4 | |
| | | /2 | | | | 0 | 0 | | | | | | | | | | | 0 | |
| | | 5 | | | | | | | | | | | | | | | | | |
| 20 | 32 | 20 | | 185 | 179 | 18 | 18 | 21 | 19 | 206 | 20 | 238 | 258 | 208 | 60 | 150 | 160 | 5-6 | 40-6 |
| | | /3 | | | | 3 | 8 | 4 | 6 | 7 | | | | | | | | 3 | 3 |
| | | 2 | | | | | | | | | | | | | | | | | |
| 25 | 32 | 20 | HB | | | 18 | 20 | | | | | 238 | | 259 | 120 | 160 | | 5-4 | |
| | | /3 | | | | 0 | 0 | | | | | | | | | | | 0 | |
| | | 2 | | | | | | | | | | | | | | | | | |
| 32 | 32 | 20 | HB | | | 20 | 20 | | | | | 238 | | 279 | 120 | 194 | | 5-4 | |
| | | /3 | | | | 2 | 5 | | | | | | | | | | | 0 | |
| | | 2 | | | | | | | | | | | | | | | | | |
| 25 | 40 | 25 | | 190 | 219 | 19 | 21 | 22 | 24 | 219 | 24 | 246 | 266 | 259 | 120 | 160 | 175 | 5-6 | 24-6 |
| | | /4 | | | | 6 | 6 | 9 | 9 | 0 | | | | | | | | 3 | 3 |
| | | 0 | | | | | | | | | | | | | | | | | |
| 32 | 40 | 25 | HB | | | 20 | 20 | | | | | 246 | 266 | 279 | 120 | 194 | | 5-4 | 24-4 |
| | | /4 | | | | 2 | 5 | | | | | | | | | | | 0 | 0 |
| | | 0 | | | | | | | | | | | | | | | | | |
| 32 | 50 | 32 | | 214 | 229 | 21 | 22 | | | 241 | 25 | 278 | | 279 | 120 | 194 | | 5-4 | |
| | | /5 | | | | 9 | 8 | | | 3 | | | | | | | | 0 | |
| | | 0 | | | | | | | | | | | | | | | | | |

Table 31: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

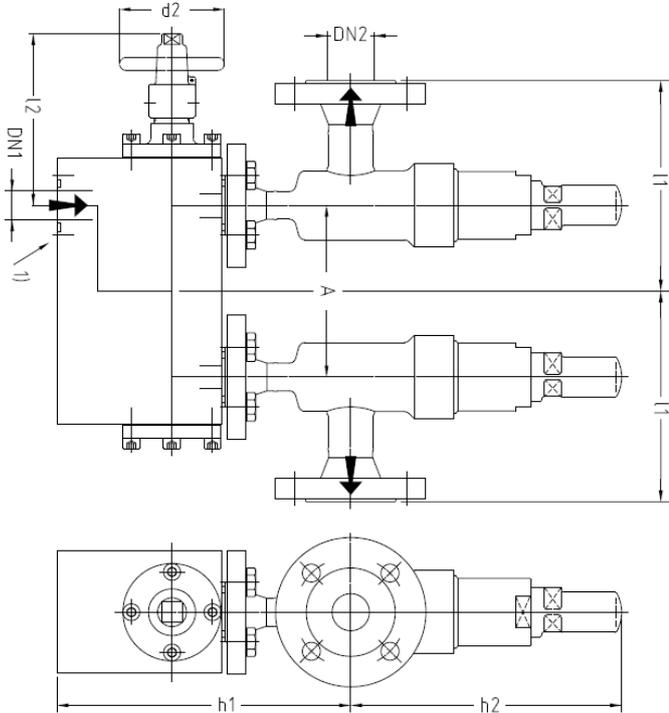
Type*: HB = installation lengths according to EN-standard, A*): for PN63 DIN-flange

DIN/EN flange facings with DIN 2512 tongue/groove as standard

35 WVR AL-SVUA P FL Herl T24.1V / WVR AL-SVUB P FL Herl T24.1V

AL: WVR body made of aluminium **A:** PTFE seat seal, **B:** elastomer seat seal, **P:** high-performance, **FL:** Flanged ends

WVR AL-SVU P steel change-over safety valve combination - back-pressure independent for natural refrigerants (NH₃, CO₂) and non-corrosive gases according to EN 378-1



Pressure / temperature operating limits:

PS: Max. permissible operating pressure in bar

TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)

PN: Nominal pressure rating

| Nominal size: | | Flanged ends acc. to: | | | | Response pressure range | | | | | | |
|---------------|-------|-----------------------|----------|---------------------------------|------|-------------------------|-----|-----|-----|-----|-----|------|
| Base valve | Type* | Type SV | Type WVR | PN25/40 DIN 2635 EN1092-1 | l1 | h1 | h2 | l2 | d2 | A | bar | |
| DN1 | DN2 | Base | Type | | l1 | h1 | h2 | l2 | d2 | A | bar | |
| 15 | 25 | 15/25 | HB | T23V | T25V | 157.5 | 244 | 207 | 133 | 60 | 125 | 5-40 |
| 20 | 25 | 15/25 | HB | T23V | T25V | 157.5 | 244 | 207 | 133 | 60 | 125 | 5-40 |
| 25 | 32 | 20/32 | HB | T23V | T25V | 166.5 | 259 | 238 | 178 | 120 | 133 | 5-40 |
| 32 | 32 | 20/32 | HB | T23V | T25V | 186.5 | 284 | 238 | 183 | 120 | 173 | 5-40 |
| 32 | 40 | 25/40 | HB | T23V | T25V | 191.5 | 284 | 246 | 183 | 120 | 173 | 5-40 |

| Nominal size: | | | | Flanged ends acc. to: | | | | | | | | | Response pressure range |
|---------------|----|-------|----|-----------------------|------|-------|-----|-----|-----|-----|-----|------|-------------------------|
| 40 | 40 | 25/40 | HB | T23V | T25V | 201.5 | 314 | 246 | 210 | 140 | 193 | 5-40 | |
| 40 | 50 | 32/50 | HB | T23V | T25V | 211.5 | 314 | 278 | 210 | 140 | 193 | 5-40 | |
| 50 | 50 | 32/50 | HB | T23V | T25V | 211.5 | 354 | 278 | 216 | 140 | 193 | 5-40 | |
| 50 | 65 | 40/65 | HB | T23V | T25V | 221.5 | 354 | 281 | 216 | 140 | 193 | 5-40 | |

Table 32: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.

Type*: HB = installation lengths according to EN-standard

DIN/EN flange facings with DIN 2512 tongue/groove as standard

36 Legal notices

- GEA AWP valves must be handled in accordance with the GEA AWP operating regulations.
- The safety instructions mentioned in the operating regulations must be observed.
- A hazard analysis is available for GEA AWP valves.
- GEA AWP valves must only be handled by authorised persons.
- The instructions for the use of personal protective equipment (PPE) must be observed.
- GEA AWP valves must be used for their intended purpose.
- This catalogue has been carefully created and checked; however, it may still contain errors. The technical specifications given in the catalogue are not contractually guaranteed properties. Technical specifications are only binding if they have been confirmed by us in writing.
- We reserve the right to make technical changes.
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