# INFORMATION SHEET

**T 8000-3 EN**

## Electric and Pneumatic Control Valves

Series SMS • 240 • 250

Flow coefficients for valves

Type 251GR • 3241 • Type 3248 • Type 3249 • Type 3251 • Type 3321 • Type 3347 • Type 3598



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Edition October 2026

## Valve characteristics

This document contains the empirical flow coefficients (according to DIN EN 60534-2-3) measured on the SAMSON test bench for all available valve sizes of a valve model.

The $K_V$ coefficients are specified up to a valve travel of 110 % to indicate how much reserve the valve offers.

**NOTICE** This overtravel cannot be achieved in valves with a metal bellows seal.

**Note:** In the online version of this data sheet you can click on the $K_{VS}$ or $C_V$ coefficient to open a flow coefficient graph.

## Details on the valves can be found in the data sheets

Type 251GR Globe Valve ..... ..... DIN ▶ T 8003-GR
..... ..... ANSI ▶ T 8004-GR

Type 3241 Globe Valve ..... ..... DIN ▶ T 8015
..... .....ANSI ▶ T 8012

Type 3248 Cryogenic Valve ..... ..... DIN ▶ T 8093
..... ..... ANSI ▶ T 8093-1

Type 3251 Globe Valve ..... ..... DIN ▶ T 8051
..... .....ANSI ▶ T 8052

Type 3254 Globe Valve ..... ..... DIN ▶ T 8060
..... .....ANSI ▶ T 8061

Type 3256 Angle Valve..... DIN ▶ T 8065
.....ANSI ▶ T 8066

Type 3321 Globe Valve (V2001).... ..... DIN ▶ T 8111
..... .....ANSI ▶ T 8112

Type 3347 Hygienic Angle Valve.....DIN/ANSI ▶ T 8097

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## Abbreviations

GM Noise reduction
KL Characteristic
ST Flow divider ▶ T 8081

# T 8000-3 · Section on Type 251GR
# Type 251GR Globe Valve

**$K_V$ coefficients ($m^3/h$) for Type 251GR Globe Valve**
**Standard plug**
With flow divider cage FDC1
With equal percentage characteristic Table 251GR.1

**$C_V$ coefficients (gpm) for Type 251GR Globe Valve**
**Standard plug**
With flow divider cage FDC1
With equal percentage characteristic Table 251GR.2

**Table 251GR.1:** *$K_V$ coefficients ($m^3/h$) for Type 251GR Globe Valve: standard plug with flow divider cage FDC1, with equal percentage characteristic Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| 8.5 | 10 | 25 | 1 | FDC1 | Equal percentage | 31 | 19 | 0.2 | 0.24 | 0.29 | 0.423 | 0.617 | 0.899 | 1.31 | 1.91 | 2.79 | 4.07 | 5.94 | 8.66 |
| 12 | 14 | 25 | 1 | | | 31 | 19 | 0.2 | 0.242 | 0.293 | 0.471 | 0.754 | 1.32 | 2.32 | 4.2 | 6.75 | 9.14 | 11.3 | 12.2 |
| 17 | 20 | 40 | 1.5 | | | 46 | 19 | 0.406 | 0.436 | 0.504 | 0.703 | 1.05 | 1.57 | 2.35 | 3.51 | 5.24 | 7.83 | 11.7 | 17.5 |
| 26 | 30 | 40 | 1.5 | | | 46 | 19 | 0.406 | 0.509 | 0.637 | 1.06 | 1.69 | 2.86 | 4.83 | 8.16 | 12.9 | 18.7 | 23.4 | 26 |
| 29 | 34 | 50 | 2 | | | 57 | 30 | 0.694 | 0.747 | 0.879 | 1.32 | 1.89 | 2.8 | 4.14 | 6.13 | 9.08 | 13.5 | 19.9 | 29.5 |
| 42 | 49 | 50 | 2 | | | 57 | 30 | 0.694 | 0.796 | 1 | 1.6 | 2.62 | 4.28 | 7.15 | 12.9 | 21 | 30.6 | 37.3 | 42.5 |
| 66 | 76 | 80 | 3 | | | 87 | 38 | 1.57 | 1.7 | 1.93 | 2.84 | 4.03 | 6.01 | 8.96 | 13.4 | 20.2 | 32.2 | 48.4 | 66.2 |
| 95 | 110 | 80 | 3 | | | 87 | 38 | 1.57 | 1.85 | 2.28 | 3.7 | 6.02 | 9.8 | 18 | 32 | 50.1 | 67 | 82.2 | 95.2 |
| 106 | 123 | 100 | 4 | | | 112 | 60 | 2.53 | 2.69 | 3.07 | 4.25 | 6.35 | 9.5 | 14.2 | 21.3 | 31.8 | 47.6 | 71.1 | 106.4 |
| 154 | 178 | 100 | 4 | | | 112 | 60 | 2.53 | 3.14 | 4 | 6.42 | 9.96 | 14.9 | 24.9 | 44 | 79 | 115.5 | 142 | 156.9 |
| 230 | 266 | 150 | 6 | | | 176 | 75 | 5.5 | 5.84 | 6.77 | 9.95 | 14.1 | 21.1 | 31.4 | 46.7 | 69.6 | 103.7 | 154.5 | 230.1 |
| 330 | 382 | 150 | 6 | | | 176 | 75 | 5.5 | 5.93 | 7.06 | 10.6 | 17.7 | 28.4 | 45.4 | 72.7 | 129.5 | 203.7 | 290.7 | 361 |
| 410 | 475 | 200 | 8 | | | 227 | 90 | 9.81 | 10.8 | 12.6 | 17.8 | 26.3 | 39 | 57.7 | 85.4 | 126.5 | 187.4 | 277.5 | 410.9 |
| 585 | 676 | 200 | 8 | | | 227 | 90 | 9.81 | 11.7 | 14.2 | 21.8 | 35.2 | 56.9 | 89 | 147 | 239.6 | 387 | 502.8 | 585.5 |

**Table 251GR.2:** *CV coefficients (gpm) for Type 251GR Globe Valve: standard plug with flow divider cage FDC1, with equal percentage characteristic*
*Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| 8.5 | 10 | 25 | 1 | FDC1 | Equal percentage | 31.34 | 19 | 0.231 | 0.277 | 0.335 | 0.489 | 0.713 | 1.04 | 1.52 | 2.21 | 3.23 | 4.71 | 6.86 | 10 |
| 12 | 14 | 25 | 1 | | | 31.34 | 19 | 0.231 | 0.28 | 0.339 | 0.544 | 0.872 | 1.53 | 2.69 | 4.86 | 7.81 | 10.6 | 13 | 14.1 |
| 17 | 20 | 40 | 1.5 | | | 45.63 | 19 | 0.469 | 0.504 | 0.582 | 0.812 | 1.21 | 1.81 | 2.71 | 4.05 | 6.06 | 9.06 | 13.5 | 20.2 |
| 26 | 30 | 40 | 1.5 | | | 45.63 | 19 | 0.469 | 0.588 | 0.737 | 1.22 | 1.95 | 3.3 | 5.58 | 9.43 | 15 | 21.6 | 27 | 30.1 |
| 29 | 34 | 50 | 2 | | | 56.74 | 30 | 0.802 | 0.863 | 1.02 | 1.52 | 2.18 | 3.23 | 4.79 | 7.09 | 10.5 | 15.6 | 23 | 34.1 |
| 42 | 49 | 50 | 2 | | | 56.74 | 30 | 0.802 | 0.92 | 1.16 | 1.85 | 3.03 | 4.95 | 8.27 | 14.9 | 24.3 | 35.4 | 43.1 | 49.1 |
| 66 | 76 | 80 | 3 | | | 86.98 | 38 | 1.81 | 1.96 | 2.23 | 3.28 | 4.66 | 6.95 | 10.4 | 15.5 | 23.4 | 37.2 | 56 | 76.5 |
| 95 | 110 | 80 | 3 | | | 86.98 | 38 | 1.82 | 2.14 | 2.64 | 4.28 | 6.96 | 11.3 | 20.8 | 37 | 57.9 | 77.5 | 95 | 110.1 |
| 106 | 123 | 100 | 4 | | | 112.38 | 60 | 2.92 | 3.1 | 3.55 | 4.91 | 7.34 | 11 | 16.4 | 24.6 | 36.8 | 55 | 82.2 | 123 |
| 154 | 178 | 100 | 4 | | | 112.38 | 60 | 2.92 | 3.63 | 4.62 | 7.42 | 11.5 | 17.3 | 28.8 | 50.9 | 91.3 | 133.6 | 164.2 | 181.4 |
| 230 | 266 | 150 | 6 | | | 176.15 | 75 | 6.35 | 6.75 | 7.82 | 11.5 | 16.3 | 24.3 | 36.3 | 54 | 80.5 | 119.9 | 178.6 | 266 |
| 330 | 382 | 150 | 6 | | | 176.15 | 75 | 6.36 | 6.85 | 8.16 | 12.2 | 20.5 | 32.8 | 52.5 | 84.1 | 149.8 | 235.4 | 336.1 | 417.3 |
| 410 | 475 | 200 | 8 | | | 227 | 90 | 11.3 | 12.5 | 14.6 | 20.5 | 30.4 | 45 | 66.7 | 98.8 | 146.3 | 216.6 | 320.8 | 475 |
| 585 | 676 | 200 | 8 | | | 227 | 90 | 11.3 | 13.5 | 16.5 | 25.2 | 40.7 | 65.7 | 102.9 | 169.9 | 277 | 447.4 | 581.2 | 676.9 |

**$K_V$ coefficients ($m^3/h$) for Type 3241 Globe Valve**

**Standard plug**

Without flow divider

With equal percentage characteristic . Table 3241.1

With linear characteristic ..... Table 3241.2

With flow divider ST 1

With equal percentage characteristic . Table 3241.3

With linear characteristic ..... Table 3241.4

With flow divider ST 2

With equal percentage characteristic . Table 3241.5

With linear characteristic ..... Table 3241.6

With flow divider ST 3

With equal percentage characteristic . Table 3241.7

With linear characteristic ..... Table 3241.8

AC trim

AC-1 trim with equal percentage characteristic ..... Table 3241.9

**Perforated plug**

Without flow divider

With equal percentage characteristic Table 3241.10

With linear characteristic ..... Table 3241.11

With flow divider ST 1

With equal percentage characteristic Table 3241.12

With linear characteristic ..... Table 3241.13

With flow divider ST 2

With equal percentage characteristic Table 3241.14

With linear characteristic ..... Table 3241.15

With flow divider ST 3

With equal percentage characteristic Table 3241.16

With linear characteristic ..... Table 3241.17

**Without valve trim**

With cast body ..... Table 3241.18

With forged body..... Table 3241.19

**$C_V$ coefficients (gpm) for Type 3241 Globe Valve**

**Standard plug**

Without flow divider

With equal percentage characteristic Table 3241.20

With linear characteristic ..... Table 3241.21

With flow divider ST 1

With equal percentage characteristic Table 3241.22

With linear characteristic ..... Table 3241.23

With flow divider ST 2

With equal percentage characteristic Table 3241.24

With linear characteristic ..... Table 3241.25

With flow divider ST 3

With equal percentage characteristic Table 3241.26

With linear characteristic ..... Table 3241.27

AC trim

AC-1 trim with equal percentage characteristic ..... Table 3241.28

**Perforated plug**

Without flow divider

With equal percentage characteristic Table 3241.29

With linear characteristic ..... Table 3241.30

With flow divider ST 1

With equal percentage characteristic Table 3241.31

With linear characteristic ..... Table 3241.32

With flow divider ST 2

With equal percentage characteristic Table 3241.33

With linear characteristic ..... Table 3241.34

With flow divider ST 3

With equal percentage characteristic Table 3241.35

With linear characteristic ..... Table 3241.36

**Without valve trim**

With cast body ..... Table 3241.37

With forged body..... Table 3241.38

**Table 3241.1:** *KV coefficients ($m^3/h$) for Type 3241 Globe Valve: standard plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.1 | 0.12 | 15, 20, 25 | ½, ¾, 1 | Without | Equal percentage | 3 | 15 | 0.0017 | 0.0024 | 0.0030 | 0.0043 | 0.0060 | 0.0084 | 0.0130 | 0.0192 | 0.0269 | 0.0418 | 0.0643 | 0.0985 | 0.150 |
| 0.16 | 0.2 | 15, 20, 25 | ½, ¾, 1 | | | 3 | 15 | 0.0019 | 0.0024 | 0.0032 | 0.0048 | 0.0071 | 0.0116 | 0.018 | 0.027 | 0.040 | 0.058 | 0.093 | 0.172 | 0.267 |
| 0.25 | 0.3 | 15, 20, 25 | ½, ¾, 1 | | | 3 | 15 | 0.0038 | 0.0044 | 0.0054 | 0.0082 | 0.0136 | 0.0210 | 0.0318 | 0.0482 | 0.0766 | 0.119 | 0.185 | 0.274 | 0.315 |
| 0.4 | 0.5 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1½, 2 | | | 6 | 15 | 0.008 | 0.009 | 0.011 | 0.019 | 0.029 | 0.044 | 0.064 | 0.093 | 0.131 | 0.191 | 0.284 | 0.436 | 0.753 |
| 0.63 | 0.75 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1½, 2 | | | 6 | 15 | 0.013 | 0.019 | 0.024 | 0.036 | 0.053 | 0.072 | 0.103 | 0.143 | 0.213 | 0.315 | 0.461 | 0.676 | 1.0 |
| 1 | 1.2 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1½, 2 | | | 6 | 15 | 0.019 | 0.025 | 0.031 | 0.044 | 0.066 | 0.097 | 0.149 | 0.226 | 0.338 | 0.495 | 0.738 | 1.10 | 1.27 |
| 1.6 | 2 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1½, 2 | | | 12 | 15 | 0.0240 | 0.0328 | 0.0410 | 0.0627 | 0.096 | 0.147 | 0.221 | 0.339 | 0.515 | 0.779 | 1.16 | 1.71 | 2.59 |
| 2.5 | 3 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1½, 2 | | | 12 | 15 | 0.034 | 0.046 | 0.060 | 0.098 | 0.153 | 0.239 | 0.364 | 0.554 | 0.841 | 1.24 | 1.81 | 2.77 | 3.72 |
| 4 | 5 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1½, 2 | | | 12 | 15 | 0.082 | 0.096 | 0.118 | 0.177 | 0.267 | 0.382 | 0.564 | 0.872 | 1.39 | 2.37 | 3.53 | 4.19 | 4.5 |
| 6.3 | 7.5 | 20, 25, 32, 40, 50 | ¾, 1, 1½, 2 | | | 24 | 15 | 0.14 | 0.17 | 0.21 | 0.30 | 0.42 | 0.63 | 0.95 | 1.35 | 2.00 | 2.94 | 4.34 | 6.65 | 9.1 |
| 10 | 12 | 25, 32, 40, 50 | 1, 1½, 2 | | | 24 | 15 | 0.13 | 0.23 | 0.29 | 0.47 | 0.70 | 1.02 | 1.46 | 2.10 | 3.05 | 4.7 | 8.1 | 10.5 | 12.3 |
| 16 | 20 | 32, 40, 50 | 1½, 2 | | | 31 | 15 | 0.35 | 0.44 | 0.53 | 0.78 | 1.19 | 1.79 | 2.6 | 3.8 | 5.6 | 8.5 | 12.4 | 16.1 | 18.3 |
| 25 | 30 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.52 | 0.65 | 0.80 | 1.14 | 1.72 | 2.6 | 4.1 | 6.8 | 10.4 | 14.9 | 19.5 | 23.8 | 26.7 |
| 40 | 47 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0.75 | 0.81 | 0.99 | 2.0 | 4.3 | 8.1 | 13.3 | 19.4 | 25.3 | 30.7 | 35.1 | 39.2 | 42.6 |
| 60 | 70 | 65, 80 | 2½, 3 | | | 63 | 15 | 1.7 | 1.9 | 2.2 | 3.3 | 5.6 | 10.4 | 18.4 | 26.3 | 34.4 | 41.8 | 49.3 | 56.3 | 61.9 |
| 63 | 75 | 100, 150 | 4, 6 | | | 63 | 30 | 1.6 | 2.0 | 2.5 | 3.5 | 5.1 | 7.2 | 10.4 | 14.8 | 22.3 | 34.5 | 49.4 | 62.5 | 73.0 |
| 80 | 95 | 80 | 3 | | | 80 | 15 | 2.4 | 3.0 | 3.7 | 5.4 | 7.9 | 11.9 | 19.5 | 28.4 | 38.6 | 50.0 | 61.7 | 74.0 | 85.7 |
| 100 [1] | 120 [1] | 80 | 3 | | | 80 | 19 | 2.4 | 3.2 | 4.2 | 6.7 | 11.1 | 20.1 | 31.8 | 45.5 | 60.2 | 75.5 | 90.3 | 103.9 | – |
| 100 | 120 | 100, 125, 150 | 4, 6 | | | 80 | 30 | 1.05 | 1.44 | 2.0 | 3.4 | 5.6 | 8.4 | 13.6 | 22.9 | 39.9 | 59.9 | 80.5 | 99.2 | 115.9 |
| 160 | 190 | 100, 125, 150 | 4, 6 | | | 100 | 30 | 3.8 | 4.6 | 5.4 | 7.7 | 11.1 | 17.5 | 31.2 | 51.2 | 75.8 | 100.0 | 125.3 | 148.1 | 164.9 |
| 200 | – | 125 | – | | | 110 | 30 | 4.1 | 5.6 | 6.7 | 9.6 | 12.6 | 17.1 | 26.9 | 44.3 | 77.2 | 115.9 | 155.7 | 191.9 | 217.1 |
| 250 | 290 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 6.9 | 8.3 | 10.0 | 14.1 | 20.3 | 28.8 | 41.9 | 59.3 | 89.8 | 138.8 | 198.3 | 251.3 | 293.1 |
| 260 | 300 | 150 | 6 | | | 130 | 30 | 7.0 | 8.4 | 11.1 | 19.5 | 36.8 | 67.1 | 100.8 | 136.1 | 169.6 | 203.7 | 235.1 | 264.1 | 289.3 |
| 360 | 420 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 8.2 | 10.4 | 13.2 | 19.6 | 28.6 | 41.4 | 57.9 | 91.9 | 154.5 | 232.1 | 311.5 | 390.1 | 448.8 |
| 630 | 735 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 14.5 | 18.1 | 22.3 | 34.6 | 58.2 | 113.1 | 200.1 | 298.0 | 408.9 | 483.5 | 545.1 | 580.4 | 608.5 |
| 1000 | 1150 | 250, 300 | 10, 12 | | | 250 | 120 | 13.9 | 19.5 | 27.5 | 46.2 | 76.4 | 118.3 | 177.8 | 260.4 | 399.9 | 612.2 | 843.9 | 1074.2 | 1184.6 |
| 1500 | 1730 | 300 | 12 | | | 300 | 120 | 20.1 | 28.2 | 39.7 | 66.7 | 103.2 | 153.9 | 231.2 | 338.5 | 519.8 | 795.8 | 1097.0 | 1396.2 | 1502.5 |

[1] With 19 mm overtravel (not for version with bellows seal)

**Table 3241.2:** *KV coefficients ($m^3/h$) for Type 3241 Globe Valve: standard plug without flow divider, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.1 | 0.12 | 15, 20, 25 | ½, ¾, 1 | Without | Linear | 3 | 15 | 0.0014 | 0.0094 | 0.016 | 0.027 | 0.036 | 0.045 | 0.053 | 0.063 | 0.072 | 0.082 | 0.092 | 0.101 | 0.112 |
| 0.16 | 0.2 | 15, 20, 25 | ½, ¾, 1 | | | 3 | 15 | 0.0032 | 0.0112 | 0.019 | 0.033 | 0.048 | 0.064 | 0.080 | 0.097 | 0.113 | 0.129 | 0.145 | 0.161 | 0.178 |
| 0.25 | 0.3 | 15, 20, 25 | ½, ¾, 1 | | | 3 | 15 | 0.0049 | 0.025 | 0.039 | 0.064 | 0.088 | 0.111 | 0.135 | 0.159 | 0.182 | 0.206 | 0.230 | 0.254 | 0.277 |
| 0.4 | 0.5 | 15, 20, 25, 32, 40, 50 | 1/2, 3/4, 1, 1½, 2 | | | 6 | 15 | 0.0059 | 0.034 | 0.058 | 0.103 | 0.143 | 0.184 | 0.225 | 0.266 | 0.307 | 0.348 | 0.389 | 0.429 | 0.470 |
| 0.63 | 0.75 | 15, 20, 25, 32, 40, 50 | 1/2, 3/4, 1, 1½, 2 | | | 6 | 15 | 0.0066 | 0.039 | 0.071 | 0.139 | 0.206 | 0.272 | 0.339 | 0.405 | 0.472 | 0.538 | 0.605 | 0.672 | 0.738 |
| 1 | 1.2 | 15, 20, 25, 32, 40, 50 | 1/2, 3/4, 1, 1½, 2 | | | 6 | 15 | 0.009 | 0.070 | 0.121 | 0.219 | 0.321 | 0.423 | 0.525 | 0.627 | 0.729 | 0.831 | 0.933 | 1.035 | 1.138 |
| 1.6 | 2 | 15, 20, 25, 32, 40, 50 | 1/2, 3/4, 1, 1½, 2 | | | 12 | 15 | 0.025 | 0.105 | 0.187 | 0.352 | 0.523 | 0.693 | 0.864 | 1.035 | 1.205 | 1.38 | 1.55 | 1.72 | 1.89 |
| 2.5 | 3 | 15, 20, 25, 32, 40, 50 | 1/2, 3/4, 1, 1½, 2 | | | 12 | 15 | 0.046 | 0.138 | 0.250 | 0.499 | 0.780 | 1.06 | 1.34 | 1.62 | 1.90 | 2.2 | 2.5 | 2.7 | 3.0 |
| 4 | 5 | 15, 20, 25, 32, 40, 50 | 1/2, 3/4, 1, 1½, 2 | | | 12 | 15 | 0.047 | 0.24 | 0.44 | 0.84 | 1.24 | 1.64 | 2.0 | 2.4 | 2.8 | 3.2 | 3.6 | 4.1 | 4.5 |
| 6.3 | 7.5 | 20, 25, 32, 40, 50 | ¾, 1, 1½, 2 | | | 24 | 15 | 0.081 | 0.43 | 0.75 | 1.36 | 2.0 | 2.6 | 3.2 | 3.8 | 4.4 | 5.0 | 5.6 | 6.2 | 6.8 |
| 10 | 12 | 25, 32, 40, 50 | 1, 1½, 2 | | | 24 | 15 | 0.09 | 0.63 | 1.1 | 2.1 | 3.1 | 4.2 | 5.2 | 6.2 | 7.2 | 8.2 | 9.2 | 10.3 | 11.3 |
| 16 | 20 | 32, 40, 50 | 1½, 2 | | | 31 | 15 | 0.26 | 1.19 | 2.0 | 3.6 | 5.1 | 6.7 | 8.3 | 9.9 | 11.4 | 13.1 | 14.9 | 16.7 | 18.5 |
| 25 | 30 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.42 | 0.77 | 1.22 | 3.0 | 5.6 | 8.1 | 10.7 | 13.2 | 15.8 | 18.4 | 20.9 | 23.5 | 26.1 |
| 40 | 47 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0.71 | 1.25 | 1.94 | 4.5 | 8.6 | 12.9 | 17.2 | 21.5 | 25.8 | 30.1 | 34.4 | 38.7 | 43.0 |
| 60 | 70 | 65, 80 | 2½, 3 | | | 63 | 15 | 0.9 | 4.6 | 8.2 | 15.0 | 21.8 | 28.5 | 35.3 | 41.7 | 47.7 | 53.2 | 58.7 | 64.3 | 69.8 |
| 63 | 75 | 100, 150 | 4, 6 | | | 63 | 30 | 1.7 | 2.5 | 4.6 | 11.4 | 18.5 | 25.6 | 32.7 | 39.9 | 47.0 | 54.1 | 61.2 | 68.3 | 75.4 |
| 80 | 95 | 80 | 3 | | | 80 | 15 | 1.2 | 3.6 | 6.2 | 12.5 | 18.8 | 25.6 | 32.3 | 40.0 | 48.7 | 57.4 | 66.1 | 74.7 | 83.4 |
| 100 [1] | 120 [1] | 80 | 3 | | | 80 | 19 | 1.3 | 4.5 | 8.6 | 17.8 | 28.3 | 39.4 | 50.8 | 61.8 | 72.4 | 82.9 | 93.4 | 103.9 | – |
| 100 | 120 | 100, 125, 150 | 4, 6 | | | 80 | 30 | 2.5 | 3.8 | 7.8 | 19.5 | 31.2 | 42.9 | 54.6 | 66.2 | 77.9 | 89.6 | 101.3 | 113.0 | 124.7 |
| 160 | 190 | 100, 125, 150 | 4, 6 | | | 100 | 30 | 4.2 | 5.9 | 11.2 | 27.5 | 43.2 | 58.8 | 74.5 | 90.2 | 105.9 | 121.6 | 137.2 | 152.9 | 166.8 |
| 200 | – | 125 | – | | | 110 | 30 | 6.3 | 8.8 | 16.2 | 34.5 | 54.6 | 74.8 | 94.9 | 115.1 | 135.3 | 155.4 | 175.6 | 195.7 | 215.9 |
| 250 | 290 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 6.2 | 10.8 | 19.2 | 41.5 | 69.4 | 97.4 | 125.3 | 153.3 | 181.3 | 209.2 | 237.2 | 265.1 | 293.1 |
| 260 | 300 | 150 | 6 | | | 130 | 30 | 5.9 | 8.2 | 12.0 | 25.5 | 51.7 | 81.0 | 114.8 | 150.1 | 182.1 | 213.4 | 244.7 | 276.0 | 303.5 |
| 360 | 420 | 200, 250. 300 | 8, 10, 12 | | | 150 | 60 | 9.2 | 13.4 | 23.2 | 57.3 | 99.5 | 141.8 | 184.1 | 226.3 | 268.6 | 310.9 | 353.1 | 395.4 | 437.7 |
| 630 | 735 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 16.2 | 35.4 | 56.8 | 110.4 | 166.9 | 228.4 | 287.0 | 346.5 | 403.0 | 459.5 | 516.1 | 572.6 | 625.1 |
| 1000 | 1150 | 250, 300 | 10, 12 | | | 250 | 120 | 15.4 | 24.7 | 57.5 | 162.3 | 274.1 | 385.8 | 497.5 | 609.3 | 721.0 | 832.8 | 944.5 | 1056.2 | 1158.0 |
| 1500 | 1730 | 300 | 12 | | | 300 | 120 | 20.1 | 33.2 | 89.9 | 238.3 | 383.7 | 529.1 | 674.5 | 819.9 | 965.3 | 1110.7 | 1256.1 | 1401.5 | 1505.3 |

[1] With 19 mm overtravel (not for version with bellows seal)

**Table 3241.3:** *$K_V$ coefficients ($m^3/h$) for Type 3241 Globe Valve: standard plug with flow divider ST 1, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 1.45 | 1.7 | 15, 20, 25 | ½, ¾, 1 | ST 1 | Equal percentage | 12 | 15 | 0.024 | 0.032 | 0.039 | 0.061 | 0.092 | 0.14 | 0.20 | 0.32 | 0.50 | 0.76 | 1.14 | 1.68 | 2.6 |
| 2.2 | 2.6 | 15, 20, 25 | ½, ¾, 1 | | | 12 | 15 | 0.022 | 0.025 | 0.04 | 0.08 | 0.14 | 0.23 | 0.35 | 0.54 | 0.82 | 1.22 | 1.79 | 2.7 | 3.7 |
| 3.6 | 4.2 | 15, 20, 25 | ½, ¾, 1 | | | 12 | 15 | 0.066 | 0.081 | 0.10 | 0.16 | 0.25 | 0.37 | 0.57 | 0.86 | 1.32 | 2.2 | 3.3 | 4.0 | 4.4 |
| 5.7 | 7 | 32, 40, 50 | 1½, 2 | | | 24 | 15 | 0.14 | 0.17 | 0.21 | 0.30 | 0.42 | 0.63 | 0.94 | 1.34 | 2.00 | 2.9 | 4.2 | 6.3 | 8.6 |
| 9 | 10.5 | 32, 40, 50 | 1½, 2 | | | 24 | 15 | 0.13 | 0.23 | 0.29 | 0.47 | 0.70 | 1.02 | 1.46 | 2.1 | 3.0 | 4.6 | 8.0 | 10.3 | 12.0 |
| 14.5 | 17 | 32, 40, 50 | 1½, 2 | | | 31 | 15 | 0.27 | 0.37 | 0.48 | 0.70 | 1.07 | 1.62 | 2.3 | 3.4 | 5.0 | 7.8 | 11.6 | 15.3 | 17.8 |
| 22 | 26 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.52 | 0.65 | 0.80 | 1.14 | 1.72 | 2.6 | 4.1 | 6.8 | 10.3 | 14.6 | 18.9 | 22.9 | 25.5 |
| 36 | 42 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0.75 | 0.81 | 0.99 | 2.00 | 4.3 | 8.1 | 13.3 | 18.6 | 23.6 | 28.1 | 32.0 | 35.7 | 38.5 |
| 54 | 62 | 65, 80 | 2½, 3 | | | 63 | 15 | 1.7 | 1.9 | 2.2 | 3.3 | 5.6 | 10.4 | 18.4 | 26.3 | 33.8 | 40.4 | 46.0 | 51.3 | 54.7 |
| 57 | 67 | 100, 150 | 4, 6 | | | 63 | 30 | 1.6 | 2.0 | 2.5 | 3.5 | 5.1 | 7.2 | 10.4 | 14.4 | 21.4 | 33.0 | 45.5 | 56.7 | 64.8 |
| 72 | 85 | 80 | 3 | | | 80 | 15 | 2.4 | 3.0 | 3.7 | 5.4 | 7.9 | 11.9 | 19.5 | 28.4 | 38.2 | 47.3 | 58.3 | 66.6 | 73.6 |
| 90 | 105 | 100, 125, 150 | 4, 6 | | | 80 | 30 | 1.1 | 1.4 | 2.0 | 3.4 | 5.6 | 8.4 | 13.6 | 22.9 | 39.4 | 56.0 | 73.3 | 87.3 | 100.6 |
| 144 | 170 | 100, 150 | 4, 6 | | | 100 | 30 | 3.8 | 4.6 | 5.4 | 7.7 | 11.1 | 17.5 | 31.2 | 51.2 | 75.1 | 94.5 | 115.9 | 133.3 | 146.7 |
| 180 | 210 | 125 | – | | | 110 | 30 | 4.1 | 5.6 | 6.7 | 9.6 | 12.6 | 17.1 | 26.9 | 44.3 | 76.3 | 108.2 | 141.7 | 168.9 | 188.5 |
| 225 | 265 | 200, 250. 300 | 8, 10, 12 | | | 125 | 60 | 6.9 | 8.3 | 10.0 | 14.1 | 20.3 | 28.8 | 41.9 | 59.3 | 89.1 | 132.6 | 186.4 | 231.2 | 267.3 |
| 234 | 275 | 150 | 6 | | | 130 | 30 | 7.0 | 8.4 | 11.1 | 19.5 | 36.8 | 63.1 | 90.7 | 116.7 | 144.1 | 173.2 | 199.9 | 224.5 | 245.9 |
| 320 | 375 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 8.2 | 10.4 | 13.2 | 19.6 | 28.6 | 41.4 | 57.9 | 91.9 | 153.2 | 221.4 | 291.9 | 357.4 | 407.3 |
| 560 | 650 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 14.5 | 18.1 | 22.3 | 34.6 | 58.2 | 102.9 | 182.1 | 271.2 | 372.1 | 440.0 | 496.0 | 528.2 | 553.7 |
| 900 | 1040 | 250, 300 | 10, 12 | | | 250 | 120 | 13.9 | 19.5 | 27.5 | 46.2 | 71.5 | 106.5 | 160.0 | 234.4 | 359.9 | 550.1 | 757.4 | 962.1 | 1059.8 |
| 1350 | 1560 | 300 | 12 | | | 300 | 120 | 20.1 | 28.2 | 39.7 | 66.7 | 103.2 | 153.9 | 231.2 | 338.5 | 514.6 | 752.1 | 1014.7 | 1256.6 | 1359.7 |

**Table 3241.4:** *KV coefficients ($m^3/h$) for Type 3241 Globe Valve: standard plug with flow divider ST 1, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 1.45 | 1.7 | 15, 20, 25 | ½, ¾, 1 | ST 1 | Linear | 12 | 15 | 0.016 | 0.09 | 0.16 | 0.32 | 0.49 | 0.66 | 0.83 | 0.99 | 1.16 | 1.33 | 1.49 | 1.7 | 1.8 |
| 2.2 | 2.6 | 15, 20, 25 | ½, ¾, 1 | | | 12 | 15 | 0.028 | 0.11 | 0.22 | 0.46 | 0.75 | 1.03 | 1.32 | 1.60 | 1.9 | 2.2 | 2.5 | 2.7 | 3.0 |
| 3.6 | 4.2 | 15, 20, 25 | ½, ¾, 1 | | | 12 | 15 | 0.017 | 0.21 | 0.43 | 0.82 | 1.20 | 1.58 | 2.0 | 2.3 | 2.7 | 3.1 | 3.5 | 3.8 | 4.2 |
| 5.7 | 7 | 32, 40, 50 | 1½, 2 | | | 24 | 15 | 0.1 | 0.4 | 0.7 | 1.4 | 2.0 | 2.6 | 3.2 | 3.8 | 4.4 | 5.0 | 5.6 | 6.2 | 6.8 |
| 9 | 10.5 | 32, 40, 50 | 1½, 2 | | | 24 | 15 | 0.09 | 0.63 | 1.12 | 2.1 | 3.1 | 4.1 | 5.1 | 6.1 | 7.1 | 8.1 | 9.2 | 10.2 | 11.2 |
| 14.5 | 17 | 32, 40, 50 | 1½, 2 | | | 31 | 15 | 0.26 | 1.19 | 2.0 | 3.4 | 4.9 | 6.3 | 7.8 | 9.3 | 10.8 | 12.3 | 13.9 | 15.5 | 17.1 |
| 22 | 26 | 40, 50, 65, 80 | 1½, 2, 2 ½, 3 | | | 38 | 15 | 0.42 | 0.77 | 1.22 | 2.8 | 5.2 | 7.6 | 9.9 | 12.3 | 14.7 | 17.1 | 19.5 | 21.9 | 24.2 |
| 36 | 42 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0.71 | 1.25 | 1.94 | 4.3 | 8.2 | 12.2 | 16.2 | 20.2 | 24.3 | 28.3 | 32.4 | 36.4 | 40.4 |
| 54 | 62 | 65, 80 | 2, 2½, 3 | | | 63 | 15 | 0.90 | 4.6 | 8.2 | 14.6 | 20.3 | 25.7 | 30.9 | 36.3 | 41.5 | 46.3 | 51.1 | 55.9 | 60.8 |
| 57 | 67 | 100, 150 | 4, 6 | | | 63 | 30 | 1.7 | 2.5 | 4.6 | 10.9 | 17.6 | 24.2 | 30.8 | 37.5 | 44.2 | 50.8 | 57.5 | 64.2 | 70.9 |
| 72 | 85 | 80 | 3 | | | 80 | 15 | 1.2 | 3.6 | 6.2 | 12.5 | 18.8 | 25.6 | 32.3 | 39.2 | 46.0 | 52.8 | 59.6 | 66.3 | 73.2 |
| 90 | 105 | 100, 125, 150 | 4, 6 | | | 80 | 30 | 2.5 | 3.8 | 7.5 | 17.4 | 27.8 | 38.2 | 48.0 | 58.3 | 68.6 | 78.9 | 89.2 | 99.5 | 109.7 |
| 144 | 170 | 100, 150 | 4, 6 | | | 100 | 30 | 4.2 | 5.9 | 11.2 | 24.5 | 38.5 | 52.5 | 65.6 | 79.4 | 93.2 | 107.0 | 120.8 | 134.6 | 146.8 |
| 180 | 210 | 125 | – | | | 110 | 30 | 6.3 | 8.8 | 15.0 | 30.7 | 48.7 | 65.8 | 83.5 | 101.3 | 119.0 | 136.8 | 154.5 | 172.3 | 190.0 |
| 225 | 265 | 200, 250. 300 | 8, 10, 12 | | | 125 | 60 | 6.2 | 10.8 | 18.3 | 38.5 | 63.9 | 89.6 | 115.3 | 141.0 | 166.8 | 192.5 | 218.2 | 243.9 | 269.7 |
| 234 | 275 | 150 | 6 | | | 130 | 30 | 5.9 | 8.2 | 12.0 | 25.5 | 51.7 | 77.8 | 103.9 | 130.1 | 156.2 | 182.3 | 208.5 | 234.6 | 260.7 |
| 320 | 375 | 200, 250. 300 | 8, 10, 12 | | | 150 | 60 | 9.2 | 13.4 | 21.7 | 51.6 | 88.6 | 126.2 | 163.8 | 201.4 | 239.1 | 276.7 | 314.3 | 351.9 | 389.5 |
| 560 | 650 | 200, 250. 300 | 8, 10, 12 | | | 200 | 60 | 16.2 | 35.4 | 53.8 | 101.4 | 151.9 | 207.9 | 261.1 | 315.3 | 366.7 | 418.2 | 469.6 | 521.1 | 571.9 |
| 900 | 1040 | 250. 300 | 10, 12 | | | 250 | 120 | 15.4 | 24.7 | 54.1 | 147.7 | 246.6 | 347.2 | 447.8 | 548.3 | 648.9 | 749.5 | 850.0 | 950.6 | 1042.2 |
| 1350 | 1560 | 300 | 12 | | | 300 | 120 | 20.1 | 33.2 | 84.5 | 214.5 | 345.3 | 476.2 | 607.1 | 737.9 | 868.8 | 999.6 | 1130.5 | 1261.3 | 1354.7 |

**Table 3241.5:** *$K_V$ coefficients ($m^3/h$) for Type 3241 Globe Valve: standard plug with flow divider ST 2, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 8 | 9.5 | 32, 40, 50 | 1½, 2 | ST 2 | Equal percentage | 24 | 15 | 0.13 | 0.23 | 0.29 | 0.47 | 0.70 | 1.02 | 1.46 | 2.1 | 3.0 | 4.6 | 7.9 | 10.2 | 11.9 |
| 13 | 15 | 32, 40, 50 | 1½, 2 | | | 31 | 15 | 0.27 | 0.37 | 0.48 | 0.70 | 1.07 | 1.62 | 2.3 | 3.4 | 5.0 | 7.7 | 11.3 | 14.8 | 17.3 |
| 20 | 23 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.52 | 0.65 | 0.80 | 1.14 | 1.72 | 2.6 | 4.1 | 6.8 | 10.3 | 14.5 | 18.7 | 22.6 | 25.2 |
| 32 | 37 | 65, 80 | 2½, 3 | | | 48 | 15 | 0.75 | 0.81 | 0.99 | 2.00 | 4.3 | 8.1 | 13.3 | 18.6 | 23.5 | 27.9 | 31.7 | 35.4 | 38.1 |
| 48 | 56 | 65, 80 | 2½, 3 | | | 63 | 15 | 1.7 | 1.9 | 2.2 | 3.3 | 5.6 | 10.4 | 18.4 | 25.8 | 33.1 | 38.4 | 42.6 | 46.2 | 49.1 |
| 50 | 60 | 100, 150 | 4, 6 | | | 63 | 30 | 1.6 | 2.0 | 2.5 | 3.5 | 5.1 | 7.2 | 10.4 | 14.5 | 21.7 | 32.2 | 43.8 | 53.5 | 60.8 |
| 63 | 75 | 80 | 3 | | | 80 | 15 | 2.4 | 3.0 | 3.7 | 5.4 | 7.9 | 11.9 | 19.5 | 27.9 | 37.2 | 46.0 | 55.4 | 63.7 | 68.9 |
| 80 | 95 | 100, 125, 150 | 4, 6 | | | 80 | 30 | 1.1 | 1.4 | 2.0 | 3.4 | 5.6 | 8.4 | 13.6 | 22.5 | 38.5 | 55.1 | 69.6 | 81.3 | 91.9 |
| 125 | 145 | 100, 150 | 4, 6 | | | 100 | 30 | 3.8 | 4.6 | 5.4 | 7.7 | 11.1 | 17.5 | 31.2 | 50.3 | 73.1 | 91.9 | 108.4 | 121.4 | 130.7 |
| 160 | 190 | 125 | – | | | 110 | 30 | 4.1 | 5.6 | 6.7 | 9.6 | 12.6 | 17.1 | 26.9 | 43.5 | 74.4 | 106.5 | 134.7 | 157.4 | 172.2 |
| 200 | 235 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 6.9 | 8.3 | 10.0 | 14.1 | 20.3 | 28.8 | 41.9 | 58.4 | 86.9 | 128.8 | 174.5 | 211.1 | 239.2 |
| 210 | 245 | 150 | 6 | | | 130 | 30 | 7.0 | 8.4 | 11.1 | 19.5 | 36.8 | 63.1 | 90.7 | 116.7 | 143.4 | 168.4 | 192.4 | 213.2 | 232.4 |
| 290 | 335 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 8.2 | 10.4 | 13.2 | 19.6 | 28.6 | 41.4 | 57.9 | 90.4 | 149.3 | 212.4 | 271.8 | 323.8 | 361.0 |
| 500 | 580 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 14.5 | 18.1 | 22.3 | 34.6 | 58.2 | 102.9 | 182.1 | 271.2 | 367.9 | 425.5 | 471.7 | 496.5 | 517.2 |
| 800 | 950 | 250, 300 | 10, 12 | | | 250 | 120 | 13.9 | 19.5 | 27.5 | 46.2 | 71.5 | 106.5 | 160.0 | 234.4 | 358.1 | 535.6 | 730.4 | 917.1 | 1005.7 |
| 1200 | 1400 | 300 | 12 | | | 300 | 120 | 20.1 | 28.2 | 39.7 | 66.7 | 103.2 | 153.9 | 231.2 | 332.4 | 501.1 | 724.2 | 948.9 | 1144.9 | 1247.9 |

**Table 3241.6:** *KV coefficients ($m^3/h$) for Type 3241 Globe Valve: standard plug with flow divider ST 2, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 8 | 9.5 | 32, 40, 50 | 1½, 2 | ST 2 | Linear | 24 | 15 | 0.09 | 0.63 | 1.12 | 2.1 | 3.1 | 4.1 | 5.1 | 6.1 | 7.1 | 8.1 | 9.1 | 10.1 | 11.1 |
| 13 | 15 | 32, 40, 50 | 1½, 2 | | | 31 | 15 | 0.26 | 1.19 | 2.0 | 3.4 | 4.8 | 6.2 | 7.6 | 9.1 | 10.5 | 12.0 | 13.7 | 15.3 | 16.8 |
| 20 | 23 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.42 | 0.77 | 1.22 | 2.8 | 5.2 | 7.5 | 9.8 | 12.2 | 14.5 | 16.9 | 19.3 | 21.6 | 24.0 |
| 32 | 37 | 65, 80 | 2½, 3 | | | 48 | 15 | 0.71 | 1.25 | 1.94 | 4.2 | 8.2 | 12.1 | 16.0 | 20.0 | 24.0 | 28.0 | 32.0 | 36.0 | 40.0 |
| 48 | 56 | 65, 80 | 2½, 3 | | | 63 | 15 | 0.90 | 4.6 | 8.2 | 14.0 | 19.5 | 24.6 | 29.8 | 35.1 | 40.0 | 44.7 | 49.3 | 54.0 | 58.7 |
| 50 | 60 | 100, 150 | 4, 6 | | | 63 | 30 | 1.7 | 2.5 | 4.6 | 10.8 | 17.5 | 24.0 | 30.4 | 37.1 | 43.7 | 50.3 | 56.9 | 63.5 | 70.2 |
| 63 | 75 | 80 | 3 | | | 80 | 15 | 1.2 | 3.6 | 6.2 | 12.5 | 18.8 | 25.6 | 32.3 | 38.9 | 45.4 | 51.6 | 57.8 | 63.7 | 67.6 |
| 80 | 95 | 100, 125, 150 | 4, 6 | | | 80 | 30 | 2.5 | 3.8 | 7.5 | 16.7 | 26.7 | 36.7 | 45.8 | 55.6 | 65.5 | 75.3 | 85.1 | 94.9 | 104.8 |
| 125 | 145 | 100, 150 | 4, 6 | | | 100 | 30 | 4.2 | 5.9 | 11.2 | 23.5 | 37.0 | 50.4 | 62.6 | 75.8 | 88.9 | 102.1 | 115.3 | 128.4 | 140.2 |
| 160 | 190 | 125 | – | | | 110 | 30 | 6.3 | 8.8 | 14.4 | 28.9 | 45.8 | 61.3 | 77.8 | 94.4 | 110.9 | 127.4 | 144.0 | 160.5 | 177.0 |
| 200 | 235 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 6.2 | 10.8 | 17.3 | 35.5 | 58.3 | 81.8 | 105.3 | 128.8 | 152.3 | 175.7 | 199.2 | 222.7 | 246.2 |
| 210 | 245 | 150 | 6 | | | 130 | 30 | 5.9 | 8.2 | 12.0 | 25.5 | 46.7 | 69.8 | 94.9 | 120.0 | 145.7 | 170.7 | 195.7 | 220.8 | 242.8 |
| 290 | 335 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 9.2 | 13.4 | 22.1 | 53.1 | 86.5 | 120.4 | 154.3 | 188.2 | 222.0 | 255.9 | 289.8 | 323.7 | 357.5 |
| 500 | 580 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 16.2 | 35.4 | 52.1 | 96.5 | 143.5 | 196.5 | 246.8 | 298.0 | 346.6 | 395.2 | 443.8 | 492.4 | 537.6 |
| 800 | 950 | 250, 300 | 10, 12 | | | 250 | 120 | 15.4 | 24.7 | 52.7 | 141.9 | 235.7 | 331.8 | 427.9 | 524.0 | 620.1 | 716.2 | 812.3 | 908.4 | 995.9 |
| 1200 | 1400 | 300 | 12 | | | 300 | 120 | 20.1 | 33.2 | 80.2 | 195.4 | 314.6 | 433.9 | 553.1 | 672.3 | 791.5 | 910.8 | 1030.0 | 1149.2 | 1234.3 |

**Table 3241.7:** *$K_V$ coefficients ($m^3/h$) for Type 3241 Globe Valve: standard plug with flow divider ST 3, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 7.5 | 9 | 50 | 2 | ST 3 | Equal percentage | 24 | 15 | 0.13 | 0.23 | 0.29 | 0.47 | 0.70 | 1.02 | 1.46 | 2.1 | 3.0 | 4.5 | 7.8 | 9.9 | 11.6 |
| 20 | 23 | 65, 80 | 2½, 3 | | | 38 | 15 | 0.52 | 0.65 | 0.80 | 1.1 | 1.7 | 2.6 | 4.1 | 6.8 | 10.3 | 14.4 | 18.6 | 22.4 | 24.9 |
| 30 | 35 | 65, 80 | 2½, 3 | | | 48 | 15 | 0.75 | 0.81 | 0.99 | 2.00 | 4.3 | 8.1 | 13.3 | 18.6 | 23.5 | 27.8 | 31.5 | 35.0 | 37.6 |
| 47 | 55 | 100, 150 | 4, 6 | | | 63 | 30 | 1.6 | 2.0 | 2.5 | 3.5 | 4.8 | 6.4 | 8.6 | 12.0 | 18.1 | 28.4 | 40.9 | 52.2 | 59.7 |
| 75 | – | 125, 150 | 6 | | | 80 | 30 | 1.1 | 1.4 | 2.0 | 3.4 | 5.6 | 8.4 | 13.6 | 22.4 | 38.3 | 54.5 | 68.4 | 79.4 | 89.2 |
| 120 | 140 | 150 | 6 | | | 100 | 30 | 3.8 | 4.6 | 5.4 | 7.7 | 11.1 | 17.5 | 31.2 | 50.1 | 72.6 | 90.5 | 105.6 | 117.0 | 125.1 |
| 190 | 220 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 6.9 | 8.3 | 10.0 | 14.1 | 20.3 | 28.8 | 41.9 | 58.3 | 86.5 | 127.5 | 171.5 | 206.0 | 232.5 |
| 270 | 315 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 8.2 | 10.4 | 13.2 | 19.6 | 28.6 | 41.4 | 57.9 | 84.7 | 128.4 | 182.5 | 242.5 | 306.4 | 337.1 |
| 480 | 560 | 250, 300 | 10, 12 | | | 200 | 60 | 14.5 | 18.1 | 22.3 | 34.6 | 58.2 | 102.9 | 182.1 | 271.2 | 366.5 | 423.1 | 468.0 | 491.2 | 511.1 |
| 750 | 880 | 300 | 12 | | | 250 | 120 | 13.9 | 19.5 | 27.5 | 46.2 | 71.5 | 106.5 | 160.0 | 234.4 | 357.4 | 529.7 | 719.6 | 899.1 | 984.0 |

**Table 3241.8:** *KV coefficients ($m^3/h$) for Type 3241 Globe Valve: standard plug with flow divider ST 3, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 7.5 | 9 | 50 | 2 | ST 3 | Linear | 24 | 15 | 0.09 | 0.63 | 1.12 | 2.1 | 3.1 | 4.1 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 10.9 |
| 20 | 23 | 65, 80 | 2½, 3 | | | 38 | 15 | 0.42 | 0.77 | 1.22 | 2.8 | 5.2 | 7.5 | 9.7 | 12.1 | 14.4 | 16.7 | 19.1 | 21.4 | 23.7 |
| 30 | 35 | 65, 80 | 2½, 3 | | | 48 | 15 | 0.71 | 1.25 | 1.94 | 4.2 | 8.1 | 12.0 | 15.9 | 19.8 | 23.8 | 27.7 | 31.7 | 35.6 | 39.6 |
| 47 | 55 | 100, 150 | 4, 6 | | | 63 | 30 | 1.72 | 2.5 | 4.6 | 10.7 | 17.3 | 23.8 | 30.1 | 36.7 | 43.2 | 49.8 | 56.3 | 62.9 | 69.4 |
| 75 | – | 125, 150 | 6 | | | 80 | 30 | 2.5 | 3.8 | 7.5 | 16.3 | 26.1 | 35.9 | 44.7 | 54.3 | 63.9 | 73.5 | 83.1 | 92.7 | 102.3 |
| 120 | 140 | 150 | 6 | | | 100 | 30 | 4.2 | 5.9 | 11.2 | 23.0 | 36.2 | 49.3 | 61.1 | 74.0 | 86.8 | 99.7 | 112.5 | 125.4 | 136.8 |
| 190 | 220 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 6.2 | 10.8 | 17.1 | 34.7 | 56.9 | 79.8 | 102.8 | 125.7 | 148.6 | 171.6 | 194.5 | 217.4 | 240.3 |
| 270 | 315 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 9.2 | 13.4 | 20.3 | 46.4 | 78.6 | 112.0 | 145.4 | 178.8 | 212.2 | 245.6 | 279.0 | 312.4 | 345.8 |
| 480 | 560 | 250, 300 | 10, 12 | | | 200 | 60 | 16.2 | 35.4 | 51.7 | 95.5 | 141.9 | 194.2 | 243.9 | 294.5 | 342.6 | 390.6 | 438.7 | 486.7 | 531.4 |
| 750 | 880 | 300 | 12 | | | 250 | 120 | 15.4 | 24.7 | 52.4 | 140.4 | 232.9 | 327.9 | 422.9 | 517.9 | 612.9 | 707.8 | 802.8 | 897.8 | 984.3 |

**Table 3241.9:** *KV coefficients ($m^3/h$) for Type 3241 Globe Valve: AC-1 trim with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 22 | 26 | 50, 80, 100 | 2, 3, 4 | AC-1 | Equal percentage | 38 | 15 | 0.35 | 0.42 | 0.55 | 0.9 | 1.5 | 2.3 | 3.4 | 5.0 | 7.8 | 12.5 | 17.1 | 21.4 | 24.5 |
| 35 | 40 | 50, 80 | 2, 3 | | | 48 | 15 | 0.57 | 0.65 | 0.82 | 1.4 | 2.4 | 3.7 | 5.7 | 8.4 | 13.0 | 23.0 | 30.9 | 36.0 | 39.8 |
| 38 | 45 | 100 | 4 | | | 48 | 15 | 0.69 | 0.85 | 1.1 | 1.7 | 2.7 | 4.0 | 5.9 | 8.7 | 13.1 | 19.6 | 28.8 | 39.7 | 50.2 |
| 50 | 60 | 80 | 3 | | | 63 | 15 | 0.92 | 1.1 | 1.4 | 2.3 | 3.6 | 5.3 | 7.8 | 11.5 | 17.3 | 25.7 | 37.9 | 51.1 | 63.7 |
| 55 | 65 | 100 | 4 | | | 63 | 30 | 1.0 | 1.2 | 1.6 | 2.5 | 3.9 | 5.8 | 8.5 | 12.6 | 19.0 | 28.3 | 41.7 | 57.4 | 72.7 |
| 75 | 90 | 100 | 4 | | | 80 | 30 | 1.4 | 1.7 | 2.1 | 3.4 | 5.3 | 7.9 | 11.7 | 17.2 | 25.9 | 38.6 | 56.9 | 76.7 | 95.5 |
| 95 | 110 | 150 | 6 | | | 80 | 30 | 1.7 | 2.1 | 2.7 | 4.3 | 6.7 | 10.1 | 14.8 | 21.8 | 32.8 | 48.9 | 72.1 | 99.1 | 125.5 |
| 145 | 170 | 150 | 6 | | | 100 | 30 | 2.6 | 3.2 | 4.1 | 6.6 | 10.3 | 15.3 | 22.5 | 33.3 | 50.0 | 74.7 | 110.0 | 148.3 | 184.6 |
| 155 | 180 | 200, 250 | 8, 10 | | | 100 | 30 | 2.8 | 3.5 | 4.4 | 7.1 | 11.0 | 16.4 | 24.1 | 35.6 | 53.5 | 79.8 | 117.6 | 161.7 | 204.8 |
| 205 | 240 | 150 | 6 | | | 125 | 30 | 4.4 | 5.1 | 6.2 | 10.3 | 16.1 | 24.4 | 34.6 | 49.9 | 72.6 | 102.9 | 140.5 | 187.1 | 213.5 |
| 230 | 270 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 4.2 | 5.1 | 6.5 | 10.5 | 16.3 | 24.3 | 35.7 | 52.8 | 79.4 | 118.4 | 174.5 | 240.0 | 303.9 |
| 305 | 360 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 5.6 | 6.8 | 8.6 | 13.9 | 21.7 | 32.3 | 47.4 | 70.1 | 105.3 | 157.0 | 228.7 | 318.3 | 402.8 |
| 360 | 420 | 200, 250 | 8, 10 | | | 200 | 60 | 6.0 | 7.3 | 9.0 | 14.3 | 22.0 | 32.6 | 48.8 | 72.6 | 106.8 | 166.6 | 265.7 | 358.0 | 413.7 |
| 480 | 560 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 10.2 | 12.3 | 16.0 | 25.6 | 39.8 | 60.2 | 89.3 | 136.6 | 219.5 | 315.3 | 415.5 | 481.2 | 521.3 |
| 1000 | 1150 | 300 | 12 | | | 250 | 120 | 13.81 | 16.54 | 21.48 | 37.5 | 62.1 | 95.1 | 142.7 | 215.3 | 318.1 | 472.2 | 718.0 | 955.5 | 1087.9 |

**Table 3241.10:** *$K_V$ coefficients ($m^3/h$) for Type 3241 Globe Valve: perforated plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 4 | 5 | 25, 32, 40, 50 | 1, 1½, 2 | Perforated plug | Equal percentage | 24 | 15 | 0.028 | 0.075 | 0.12 | 0.18 | 0.26 | 0.39 | 0.58 | 0.86 | 1.3 | 1.8 | 2.7 | 4.1 | 5.4 |
| 6.3 | 7.5 | 25, 32, 40, 50, 65, 80 | 1, 1½, 2, 2½, 3 | | | 24 | 15 | 0.063 | 0.15 | 0.19 | 0.28 | 0.44 | 0.62 | 0.92 | 1.5 | 2.2 | 3.2 | 4.5 | 5.8 | 6.5 |
| 10 | 12 | 32, 40, 50, 65, 80 | 1, 1½, 2, 2½, 3 | | | 31 | 15 | 0.18 | 0.18 | 0.22 | 0.33 | 0.57 | 0.90 | 1.5 | 2.4 | 4.1 | 6.7 | 8.9 | 10.8 | 12.8 |
| 16 | 20 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.28 | 0.44 | 0.58 | 0.95 | 1.3 | 1.9 | 2.8 | 4.3 | 7.2 | 10.0 | 13.0 | 15.8 | 18.3 |
| 25 | 30 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0.47 | 0.80 | 1.1 | 1.8 | 2.3 | 3.4 | 5.9 | 9.6 | 13.8 | 17.9 | 22.1 | 25.7 | 29.2 |
| 36 | 42 | 65, 80 | 2½, 3 | | | 63 | 15 | 0.36 | 0.91 | 1.2 | 1.9 | 3.0 | 4.7 | 7.8 | 12.3 | 17.7 | 24.3 | 30.8 | 36.0 | 40.0 |
| 40 | 47 | 80 | 3 | | | 80 | 15 | 0.40 | 1.2 | 1.5 | 2.3 | 3.6 | 5.2 | 7.7 | 11.4 | 16.6 | 23.8 | 32.2 | 40.0 | 46.8 |
| 54 | 62 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 63 | 30 | 0.54 | 0.96 | 1.1 | 1.6 | 3.1 | 4.9 | 8.2 | 14.8 | 23.8 | 34.7 | 46.3 | 54.6 | 59.4 |
| 63 | 75 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 80 | 30 | 0.63 | 3.2 | 5.2 | 11.3 | 19.8 | 29.2 | 39.5 | 47.9 | 54.3 | 59.2 | 63.0 | 65.8 | 68.0 |
| 80 | 95 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 80 | 30 | 0.80 | 1.3 | 1.3 | 2.6 | 4.1 | 8.7 | 20.6 | 36.9 | 51.8 | 64.8 | 76.3 | 86.0 | 92.7 |
| 100 | 120 | 100, 125, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 1.0 | 1.6 | 1.8 | 3.2 | 6.0 | 9.6 | 15.8 | 27.1 | 40.8 | 59.4 | 81.9 | 100.1 | 110.9 |
| 120 | 140 | 125 | 4 | | | 110 | 30 | 1.2 | 1.9 | 2.3 | 5.1 | 9.2 | 15.0 | 23.7 | 35.1 | 52.0 | 73.1 | 98.0 | 118.4 | 133.3 |
| 160 | 190 | 150 | 6 | | | 130 | 30 | 1.6 | 4.5 | 6.2 | 10.4 | 15.2 | 22.5 | 33.2 | 49.5 | 70.0 | 97.3 | 131.6 | 162.7 | 180.3 |
| 160 | 190 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 1.6 | 2.5 | 2.7 | 5.7 | 10.0 | 15.4 | 22.7 | 33.8 | 50.1 | 80.9 | 124.1 | 162.4 | 193.1 |
| 250 | 290 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 2.5 | 3.8 | 4.9 | 9.1 | 15.3 | 24.1 | 37.0 | 66.9 | 111.3 | 165.4 | 215.5 | 250.7 | 278.5 |
| 360 | 420 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 3.6 | 5.3 | 6.0 | 11.0 | 20.7 | 33.0 | 51.8 | 94.0 | 151.0 | 218.0 | 292.0 | 358.5 | 394.6 |
| 420 | 485 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 4.2 | 6.1 | 6.5 | 16.4 | 53.3 | 118.0 | 183.0 | 248.0 | 313.0 | 377.0 | 426.0 | 470.1 | 502.1 |
| 630 | 735 | 250, 300 | 10, 12 | | | 250 | 120 | 6.3 | 6.5 | 8.8 | 18.4 | 33.7 | 55.2 | 86.6 | 131.0 | 232.0 | 369.0 | 522.0 | 668.5 | 701.0 |
| 1000 | 1150 | 300 | 12 | | | 300 | 120 | 10.0 | 10.8 | 13.6 | 28.4 | 53.2 | 91.2 | 141.6 | 250.0 | 429.0 | 647.0 | 861.0 | 1020.8 | 1123.1 |

**Table 3241.11:** *KV coefficients ($m^3/h$) for Type 3241 Globe Valve: perforated plug without flow divider, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 4 | 5 | 25, 32, 40, 50 | 1, 1½, 2 | Perforated plug | Linear | 24 | 15 | 0.040 | 0.25 | 0.42 | 0.78 | 1.2 | 1.6 | 2.1 | 2.6 | 3.2 | 3.8 | 4.5 | 5.4 | 6.3 |
| 6.3 | 7.5 | 25, 32, 40, 50, 65, 80 | 1, 1½, 2, 2½, 3 | | | 24 | 15 | 0.073 | 0.43 | 0.73 | 1.3 | 2.0 | 2.6 | 3.2 | 3.8 | 4.5 | 5.2 | 5.8 | 6.5 | 7.2 |
| 10 | 12 | 32, 40, 50, 65, 80 | 1, 1½, 2, 2½, 3 | | | 31 | 15 | 0.10 | 0.53 | 0.95 | 1.8 | 2.6 | 3.7 | 4.8 | 5.9 | 7.1 | 8.3 | 9.8 | 11.2 | 12.2 |
| 16 | 20 | 32, 40, 50, 65, 80 | 1, 1½, 2, 2½, 3 | | | 31 | 15 | 0.28 | 1.5 | 2.6 | 4.7 | 6.8 | 8.9 | 10.8 | 12.3 | 13.5 | 14.5 | 15.2 | 15.7 | 16.0 |
| 25 | 30 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.006 | 1.1 | 2.5 | 5.9 | 9.1 | 12.3 | 15.2 | 18.0 | 20.1 | 22.0 | 23.3 | 24.0 | 24.6 |
| 36 | 42 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0.64 | 1.1 | 2.6 | 6.6 | 10.3 | 14.1 | 17.8 | 21.7 | 25.4 | 29.0 | 31.9 | 34.0 | 36.0 |
| 47 | 55 | 65, 80 | 2½, 3 | | | 63 | 15 | 0.78 | 3.7 | 6.4 | 11.9 | 17.3 | 22.9 | 28.5 | 33.6 | 38.3 | 42.3 | 45.8 | 48.5 | 50.7 |
| 60 | 70 | 80 | 3 | | | 80 | 15 | 0.60 | 3.7 | 6.8 | 13.2 | 19.6 | 26.5 | 33.7 | 40.2 | 46.8 | 53.2 | 58.8 | 64.3 | 68.6 |
| 63 | 75 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 63 | 30 | 0.63 | 3.2 | 5.6 | 11.9 | 20.3 | 29.7 | 39.5 | 47.9 | 54.3 | 59.2 | 63.0 | 65.8 | 68.0 |
| 100 | 120 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 80 | 30 | 1.0 | 6.9 | 13.6 | 28.1 | 41.6 | 54.2 | 65.9 | 76.0 | 84.3 | 89.8 | 94.2 | 97.8 | 100.7 |
| 130 | 160 | 100, 125, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 0.54 | 5.5 | 12.1 | 27.1 | 42.6 | 58.0 | 73.1 | 86.7 | 99.2 | 109.9 | 118.4 | 125.6 | 132.0 |
| 160 | 190 | 125 | 4 | | | 110 | 30 | 1.6 | 11.0 | 20.3 | 38.7 | 57.3 | 76.8 | 95.4 | 111.4 | 126.2 | 139.6 | 150.0 | 160.2 | 168.2 |
| 210 | 245 | 150 | 6 | | | 130 | 30 | 2.1 | 14.0 | 24.8 | 48.5 | 72.5 | 97.4 | 121.6 | 142.9 | 163.1 | 181.3 | 197.4 | 212.2 | 224.7 |
| 250 | 290 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 2.4 | 13.0 | 25.9 | 57.6 | 91.2 | 127.7 | 160.7 | 191.8 | 218.4 | 239.6 | 256.3 | 268.3 | 277.1 |
| 320 | 375 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 3.2 | 16.5 | 31.8 | 67.2 | 105.8 | 150.8 | 194.7 | 233.9 | 264.3 | 284.0 | 295.0 | 297.9 | 300.0 |
| 500 | 580 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 7.5 | 18.0 | 43.0 | 108.3 | 170.1 | 234.4 | 296.3 | 349.4 | 397.0 | 439.1 | 473.6 | 499.7 | 520.0 |
| 900 | 1040 | 250, 300 | 10, 12 | | | 250 | 120 | 9.0 | 45.0 | 91.7 | 197.0 | 314.0 | 446.0 | 570.0 | 684.0 | 775.0 | 844.0 | 882.1 | 902.6 | 921.9 |
| 1300 | 1500 | 300 | 12 | | | 300 | 120 | 13.0 | 120.2 | 223.0 | 410.0 | 586.0 | 771.0 | 938.0 | 1083.0 | 1186.0 | 1270.0 | 1320.0 | 1352.2 | 1352.3 |

**Table 3241.12:** *$K_V$ coefficients ($m^3/h$) for Type 3241 Globe Valve: perforated plug with flow divider ST 1, with eq. percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.6 | 4.2 | 32, 40, 50 | 1, 1½, 2 | Perforated plug and ST 1 | Equal percentage | 24 | 15 | 0.028 | 0.075 | 0.12 | 0.18 | 0.26 | 0.39 | 0.58 | 0.86 | 1.2 | 1.8 | 2.6 | 3.9 | 5.1 |
| 5.7 | 7 | 32, 40, 50 | 1, 1½, 2 | | | 24 | 15 | 0.063 | 0.15 | 0.19 | 0.28 | 0.44 | 0.62 | 0.92 | 1.5 | 2.2 | 3.1 | 4.3 | 5.5 | 6.1 |
| 9 | 10.5 | 32, 40, 50 | 1, 1½, 2 | | | 31 | 15 | 0.18 | 0.18 | 0.22 | 0.33 | 0.57 | 0.90 | 1.5 | 2.4 | 4.0 | 6.7 | 8.7 | 10.6 | 12.5 |
| 14.5 | 17 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.28 | 0.44 | 0.58 | 0.95 | 1.3 | 1.9 | 2.8 | 4.3 | 7.1 | 9.7 | 12.5 | 15.0 | 17.3 |
| 22 | 26 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0.47 | 0.80 | 1.1 | 1.8 | 2.3 | 3.4 | 5.9 | 9.6 | 13.3 | 16.7 | 20.1 | 22.6 | 25.4 |
| 32 | 37 | 65, 80 | 2½, 3 | | | 63 | 15 | 0.36 | 0.91 | 1.2 | 1.7 | 2.7 | 4.2 | 7.1 | 11.2 | 16.1 | 22.1 | 28.0 | 32.8 | 36.4 |
| 36 | 42 | 80 | 3 | | | 80 | 15 | 0.40 | 1.2 | 1.5 | 2.3 | 3.6 | 5.2 | 7.7 | 11.4 | 16.2 | 22.6 | 30.0 | 36.4 | 42.2 |
| 47 | 55 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 63 | 30 | 0.54 | 0.96 | 1.1 | 1.6 | 3.1 | 4.9 | 8.2 | 14.8 | 23.2 | 33.0 | 43.2 | 49.6 | 53.5 |
| 57 | 67 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 80 | 30 | 0.63 | 1.1 | 1.5 | 2.6 | 4.1 | 6.0 | 8.9 | 15.1 | 23.8 | 36.3 | 48.3 | 58.1 | 65.0 |
| 72 | 85 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 80 | 30 | 0.80 | 1.3 | 1.3 | 2.6 | 4.1 | 8.7 | 20.6 | 36.9 | 50.2 | 61.2 | 70.6 | 77.4 | 82.5 |
| 90 | 105 | 100, 125, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 1.0 | 1.6 | 1.8 | 3.2 | 6.0 | 9.6 | 15.8 | 27.1 | 39.3 | 55.5 | 74.5 | 88.1 | 96.2 |
| 100 | 120 | 125 | 4 | | | 110 | 30 | 1.2 | 1.9 | 2.3 | 5.1 | 9.2 | 15.0 | 23.7 | 35.1 | 50.4 | 69.1 | 90.7 | 106.5 | 118.6 |
| 144 | 170 | 150 | 6 | | | 130 | 30 | 1.6 | 4.5 | 6.2 | 10.4 | 15.2 | 22.5 | 33.2 | 49.5 | 67.9 | 91.9 | 121.7 | 146.5 | 160.4 |
| 144 | 170 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 1.6 | 2.5 | 2.7 | 5.7 | 10.0 | 15.4 | 22.7 | 33.8 | 48.6 | 76.5 | 114.8 | 146.1 | 171.9 |
| 225 | 265 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 2.5 | 3.8 | 4.9 | 9.1 | 15.3 | 24.1 | 37.0 | 66.9 | 108.6 | 158.1 | 202.6 | 230.6 | 254.0 |
| 320 | 375 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 3.6 | 5.3 | 6.0 | 11.0 | 20.7 | 33.0 | 51.8 | 94.0 | 147.1 | 207.8 | 273.4 | 328.1 | 357.7 |
| 375 | 435 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 4.2 | 6.1 | 6.5 | 16.4 | 53.3 | 118.0 | 183.0 | 248.0 | 305.0 | 359.4 | 398.8 | 430.2 | 455.1 |
| 560 | 650 | 250, 300 | 10, 12 | | | 250 | 120 | 6.3 | 6.5 | 8.8 | 18.4 | 33.7 | 55.2 | 86.6 | 131.0 | 225.7 | 350.7 | 486.8 | 608.3 | 631.6 |
| 900 | 1040 | 300 | 12 | | | 300 | 120 | 10.0 | 10.8 | 13.6 | 28.4 | 53.2 | 91.2 | 141.6 | 250.0 | 415.5 | 609.6 | 793.2 | 913.6 | 993.4 |

**Table 3241.13:** *KV coefficients ($m^3/h$) for Type 3241 Globe Valve: perforated plug with flow divider ST 1, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.6 | 4.2 | 32, 40, 50 | 1, 1½, 2 | Perforated plug and ST 1 | Linear | 24 | 15 | 0.040 | 0.25 | 0.40 | 0.75 | 1.1 | 1.6 | 2.0 | 2.5 | 3.0 | 3.6 | 4.3 | 5.2 | 6.0 |
| 5.7 | 7 | 32, 40, 50 | 1, 1½, 2 | | | 24 | 15 | 0.073 | 0.43 | 0.73 | 1.3 | 1.9 | 2.6 | 3.2 | 3.8 | 4.4 | 5.1 | 5.8 | 6.4 | 7.1 |
| 9 | 10.5 | 32, 40, 50 | 1, 1½, 2 | | | 31 | 15 | 0.10 | 0.53 | 0.94 | 1.7 | 2.6 | 3.6 | 4.7 | 5.9 | 7.1 | 8.3 | 9.7 | 11.1 | 12.0 |
| 14.5 | 17 | 32, 40, 50 | 1, 1½, 2 | | | 31 | 15 | 0.28 | 1.50 | 2.5 | 4.4 | 6.3 | 8.2 | 10.0 | 11.5 | 12.6 | 13.5 | 14.1 | 14.6 | 14.9 |
| 22 | 26 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.006 | 1.1 | 2.4 | 5.5 | 8.5 | 11.5 | 14.1 | 16.7 | 18.7 | 20.4 | 21.7 | 22.3 | 22.9 |
| 32 | 37 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0.64 | 1.1 | 2.5 | 6.2 | 9.7 | 13.3 | 16.8 | 20.4 | 23.9 | 27.3 | 30.0 | 32.0 | 33.8 |
| 43 | 50 | 65, 80 | 2½, 3 | | | 63 | 15 | 0.78 | 3.7 | 6.2 | 11.2 | 16.2 | 21.5 | 26.8 | 31.6 | 36.0 | 39.8 | 43.0 | 45.6 | 47.7 |
| 54 | 62 | 80 | 3 | | | 80 | 15 | 0.60 | 3.7 | 6.3 | 11.5 | 17.1 | 23.1 | 29.3 | 35.0 | 40.7 | 46.3 | 51.2 | 55.9 | 59.7 |
| 57 | 67 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 63 | 30 | 0.63 | 3.2 | 5.4 | 11.2 | 19.1 | 27.9 | 37.1 | 45.0 | 51.1 | 55.7 | 59.2 | 61.9 | 64.0 |
| 90 | 105 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 80 | 30 | 1.0 | 6.9 | 12.6 | 24.7 | 36.6 | 47.7 | 58.0 | 66.9 | 74.1 | 79.0 | 82.9 | 86.1 | 88.6 |
| 115 | 135 | 100, 125, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 0.54 | 5.5 | 11.2 | 23.8 | 37.5 | 51.0 | 64.3 | 76.3 | 87.3 | 96.7 | 104.2 | 110.5 | 116.2 |
| 144 | 170 | 125 | 4 | | | 110 | 30 | 1.6 | 11.0 | 18.8 | 34.1 | 50.4 | 67.6 | 83.9 | 98.0 | 111.1 | 122.8 | 132.0 | 141.0 | 148.0 |
| 190 | 220 | 150 | 6 | | | 130 | 30 | 2.1 | 14.0 | 23.0 | 42.7 | 63.8 | 85.8 | 107.0 | 125.7 | 143.5 | 159.6 | 173.7 | 186.8 | 197.7 |
| 225 | 265 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 2.4 | 13.0 | 24.7 | 53.0 | 83.9 | 117.5 | 147.8 | 176.5 | 200.9 | 220.4 | 235.8 | 246.8 | 254.9 |
| 280 | 325 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 3.2 | 16.5 | 29.7 | 59.8 | 94.2 | 134.2 | 173.3 | 208.2 | 235.2 | 252.8 | 262.5 | 265.1 | 267.0 |
| 450 | 520 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 7.5 | 18.0 | 40.7 | 98.6 | 154.8 | 213.3 | 269.6 | 318.0 | 361.3 | 399.6 | 431.0 | 454.7 | 473.2 |
| 800 | 950 | 250, 300 | 10, 12 | | | 250 | 120 | 9.0 | 45.0 | 86.2 | 177.3 | 282.6 | 401.4 | 513.0 | 615.6 | 697.5 | 759.6 | 793.9 | 812.3 | 829.7 |
| 1150 | 1350 | 300 | 12 | | | 300 | 120 | 13.0 | 120.2 | 209.6 | 369.0 | 527.4 | 693.9 | 844.2 | 974.7 | 1067.4 | 1143.0 | 1188.0 | 1217.0 | 1217.1 |

**Table 3241.14:** *$K_V$ coefficients ($m^3/h$) for Type 3241 Globe Valve: standard plug with flow divider ST 3, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | Travel in % · Flow coefficient (KV) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 8 | 9.5 | 32, 40, 50 | 1, 1½, 2 | Perforated plug and ST 2 | Equal percentage | 31 | 15 | 0.18 | 0.18 | 0.22 | 0.33 | 0.57 | 0.90 | 1.5 | 2.4 | 4.0 | 6.6 | 8.7 | 10.5 | 12.3 |
| 13 | 15 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.28 | 0.44 | 0.58 | 0.95 | 1.3 | 1.9 | 2.8 | 4.3 | 7.1 | 9.7 | 12.4 | 14.8 | 17.1 |
| 20 | 23 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0.47 | 0.80 | 1.1 | 1.8 | 2.3 | 3.4 | 5.9 | 9.5 | 13.4 | 16.4 | 19.5 | 21.6 | 23.9 |
| 29 | 34 | 65, 80 | 2½, 3 | | | 63 | 15 | 0.36 | 0.91 | 1.1 | 1.6 | 2.6 | 4.1 | 6.9 | 10.8 | 15.6 | 21.4 | 27.1 | 31.7 | 35.2 |
| 32 | 37 | 80 | 3 | | | 80 | 15 | 0.40 | 1.2 | 1.5 | 2.3 | 3.6 | 5.2 | 7.7 | 11.4 | 16.1 | 22.5 | 29.8 | 36.0 | 41.6 |
| 43 | 50 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 63 | 30 | 0.54 | 0.961 | 1.1 | 1.6 | 3.1 | 4.9 | 8.2 | 14.8 | 22.9 | 32.4 | 42.1 | 48.0 | 51.6 |
| 50 | 60 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 80 | 15 | 0.63 | 1.1 | 1.5 | 2.6 | 4.1 | 6.0 | 8.9 | 15.1 | 23.4 | 35.2 | 46.3 | 54.8 | 60.9 |
| 63 | 75 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 80 | 30 | 0.80 | 1.3 | 1.3 | 2.6 | 4.1 | 8.7 | 20.6 | 36.9 | 49.6 | 59.8 | 68.3 | 73.9 | 78.4 |
| 80 | 95 | 100, 125, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 1.0 | 1.6 | 1.8 | 3.2 | 6.0 | 9.6 | 15.8 | 26.6 | 39.3 | 54.1 | 70.8 | 82.1 | 87.9 |
| 95 | 110 | 125 | 4 | | | 110 | 30 | 1.2 | 1.9 | 2.3 | 5.1 | 9.2 | 15.0 | 23.7 | 34.5 | 50.1 | 66.5 | 84.8 | 97.0 | 105.7 |
| 125 | 145 | 150 | 6 | | | 130 | 30 | 1.6 | 4.5 | 6.2 | 10.4 | 15.2 | 22.5 | 33.2 | 48.6 | 67.5 | 88.5 | 113.8 | 133.4 | 142.9 |
| 125 | 145 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 1.6 | 2.5 | 2.7 | 5.7 | 10.0 | 15.4 | 22.7 | 33.2 | 48.3 | 73.6 | 107.3 | 133.1 | 153.1 |
| 200 | 235 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 2.5 | 3.8 | 4.9 | 9.1 | 15.3 | 24.1 | 37.0 | 65.8 | 107.7 | 152.2 | 189.6 | 210.6 | 227.2 |
| 290 | 335 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 3.6 | 5.3 | 6.0 | 11.0 | 20.7 | 33.0 | 51.8 | 92.4 | 145.9 | 199.5 | 254.8 | 297.6 | 317.5 |
| 340 | 390 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 4.2 | 6.1 | 6.5 | 16.4 | 53.3 | 118.0 | 183.0 | 243.8 | 302.4 | 345.0 | 371.7 | 390.2 | 403.9 |
| 500 | 580 | 250, 300 | 10, 12 | | | 250 | 120 | 6.3 | 6.5 | 8.8 | 18.4 | 33.7 | 55.2 | 86.6 | 131.0 | 221.9 | 339.6 | 465.2 | 571.6 | 589.2 |
| 800 | 950 | 300 | 12 | | | 300 | 120 | 10.0 | 10.8 | 13.6 | 28.4 | 53.2 | 91.2 | 141.6 | 246.3 | 416.1 | 598.5 | 764.1 | 867.7 | 929.4 |

**Table 3241.15:** *KV coefficients ($m^3/h$) for Type 3241 Globe Valve: perforated plug with flow divider ST 2, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient (KV) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 8 | 9.5 | 32, 40, 50 | 1, 1½, 2 | Perforated plug and ST 2 | Linear | 31 | 15 | 0.10 | 0.53 | 0.94 | 1.7 | 2.6 | 3.6 | 4.7 | 5.8 | 7.0 | 8.2 | 9.6 | 11.0 | 11.9 |
| 13 | 15 | 32, 40, 50 | 1, 1½, 2 | | | 31 | 15 | 0.28 | 1.5 | 2.5 | 4.3 | 6.2 | 8.1 | 9.8 | 11.2 | 12.3 | 13.2 | 13.8 | 14.3 | 14.5 |
| 20 | 23 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.006 | 1.1 | 2.4 | 5.4 | 8.4 | 11.4 | 14.0 | 16.5 | 18.5 | 20.2 | 21.5 | 22.1 | 22.6 |
| 29 | 34 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0.64 | 1.1 | 2.5 | 6.1 | 9.6 | 13.2 | 16.6 | 20.2 | 23.6 | 27.0 | 29.7 | 31.7 | 33.5 |
| 38 | 45 | 65, 80 | 2½, 3 | | | 63 | 15 | 0.78 | 3.7 | 6.1 | 11.1 | 16.0 | 21.3 | 26.5 | 31.3 | 35.6 | 39.4 | 42.5 | 45.1 | 47.2 |
| 48 | 56 | 80 | 3 | | | 80 | 15 | 0.60 | 3.7 | 6.1 | 11.1 | 16.5 | 22.3 | 28.3 | 33.8 | 39.3 | 44.7 | 49.4 | 54.0 | 57.6 |
| 50 | 60 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 63 | 30 | 0.63 | 3.2 | 5.4 | 11.1 | 18.9 | 27.6 | 36.8 | 44.5 | 50.5 | 55.1 | 58.6 | 61.2 | 63.3 |
| 80 | 95 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 80 | 30 | 1.0 | 6.9 | 12.3 | 23.6 | 34.9 | 45.5 | 55.4 | 63.8 | 70.8 | 75.4 | 79.2 | 82.1 | 84.6 |
| 105 | 120 | 100, 125, 150, 200, 150, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 0.54 | 5.5 | 11.0 | 22.8 | 35.8 | 48.7 | 61.4 | 72.8 | 83.3 | 92.3 | 99.5 | 105.5 | 110.9 |
| 125 | 145 | 125 | 4 | | | 110 | 30 | 1.6 | 11.0 | 18.4 | 32.5 | 48.1 | 64.5 | 80.1 | 93.6 | 106.0 | 117.3 | 126.0 | 134.6 | 141.3 |
| 170 | 200 | 150 | 6 | | | 130 | 30 | 2.1 | 14.0 | 22.1 | 39.8 | 59.4 | 79.9 | 99.7 | 117.2 | 133.8 | 148.7 | 161.8 | 174.0 | 184.2 |
| 200 | 235 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 2.4 | 13.0 | 23.4 | 48.4 | 76.6 | 107.3 | 135.0 | 161.1 | 183.5 | 201.3 | 215.3 | 225.4 | 232.8 |
| 255 | 295 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 3.2 | 16.5 | 28.3 | 55.1 | 86.8 | 123.7 | 159.7 | 191.8 | 216.7 | 232.9 | 241.9 | 244.3 | 246.0 |
| 400 | 465 | 200, 250, 300 | 8, 10, 12 | | | 200 | 60 | 7.5 | 18.0 | 39.4 | 93.1 | 146.3 | 201.6 | 254.8 | 300.5 | 341.4 | 377.6 | 407.3 | 429.8 | 447.2 |
| 720 | 835 | 250, 300 | 10, 12 | | | 250 | 120 | 9.0 | 45.0 | 84.0 | 169.4 | 270.0 | 383.6 | 490.2 | 588.2 | 666.5 | 725.8 | 758.6 | 776.2 | 792.8 |
| 1040 | 1200 | 300 | 12 | | | 300 | 120 | 13.0 | 120.2 | 198.9 | 336.2 | 480.5 | 632.2 | 769.2 | 888.1 | 972.5 | 1041.4 | 1082.4 | 1108.8 | 1108.9 |

**Table 3241.16:** *$K_V$ coefficients ($m^3/h$) for Type 3241 Globe Valve: perforated plug with flow divider ST 3, with eq. percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient (KV) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 4.8 | 5.6 | 32, 40, 50, 65, 80 | 1, 1½, 2, 2½, 3 | Perforated plug and ST 3 | Equal percentage | 24 | 15 | 0.063 | 0.15 | 0.19 | 0.28 | 0.44 | 0.62 | 0.92 | 1.5 | 2.2 | 3.1 | 4.3 | 5.5 | 6.1 |
| 7.5 | 9 | 65, 80 | 2½, 3 | | | 31 | 15 | 0.18 | 0.18 | 0.22 | 0.33 | 0.57 | 0.90 | 1.5 | 2.4 | 4.0 | 6.6 | 8.5 | 10.2 | 12.0 |
| 12 | 14 | 65, 80 | 2½, 3 | | | 38 | 15 | 0.28 | 0.44 | 0.58 | 0.95 | 1.3 | 1.9 | 2.8 | 4.3 | 7.0 | 9.6 | 12.2 | 14.5 | 16.7 |
| 20 | 23 | 65, 80 | 2½, 3 | | | 48 | 15 | 0.47 | 0.80 | 1.1 | 1.8 | 2.3 | 3.4 | 5.9 | 9.5 | 13.3 | 16.2 | 19.1 | 21.0 | 23.2 |
| 40 | 47 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 63 | 30 | 0.54 | 0.96 | 1.1 | 1.6 | 3.1 | 4.9 | 8.2 | 14.8 | 22.8 | 32.0 | 41.4 | 46.9 | 50.3 |
| 47 | 55 | 125, 150, 200, 250 | 4, 6, 8, 10 | | | 80 | 30 | 0.63 | 1.1 | 1.5 | 2.6 | 4.1 | 6.0 | 8.9 | 14.9 | 23.7 | 35.1 | 45.6 | 53.5 | 58.7 |
| 60 | 70 | 125, 150, 200, 250 | 4, 6, 8, 10 | | | 80 | 30 | 0.80 | 1.3 | 1.3 | 2.6 | 4.1 | 8.7 | 20.6 | 36.3 | 50.1 | 59.5 | 66.9 | 71.8 | 75.1 |
| 75 | 90 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 100 | 30 | 1.0 | 1.6 | 1.8 | 3.2 | 6.0 | 9.6 | 15.8 | 26.6 | 39.2 | 53.5 | 69.6 | 80.1 | 85.4 |
| 120 | 140 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 1.6 | 4.5 | 6.2 | 10.4 | 15.2 | 22.5 | 33.2 | 48.5 | 67.1 | 87.1 | 110.9 | 128.6 | 136.7 |
| 190 | 220 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 2.5 | 3.8 | 4.9 | 9.1 | 15.3 | 24.1 | 37.0 | 65.7 | 107.3 | 150.5 | 186.4 | 205.5 | 220.8 |
| 270 | 315 | 250, 300 | 10, 12 | | | 200 | 60 | 3.6 | 5.3 | 6.0 | 11.0 | 20.7 | 33.0 | 51.8 | 92.0 | 144.5 | 194.6 | 244.9 | 281.4 | 297.0 |
| 315 | 365 | 250, 300 | 10, 12 | | | 200 | 60 | 4.2 | 6.1 | 6.5 | 16.4 | 53.3 | 118.0 | 183.0 | 242.7 | 299.5 | 336.5 | 357.3 | 369.0 | 377.9 |
| 480 | 560 | 300 | 12 | | | 250 | 120 | 6.3 | 6.5 | 8.8 | 18.4 | 33.7 | 55.2 | 86.6 | 129.0 | 224.8 | 340.4 | 461.3 | 564.9 | 576.0 |

**Table 3241.17:** *KV coefficients ($m^3/h$) for Type 3241 Globe Valve: perforated plug with flow divider ST 3, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient (KV) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 4.8 | 5.6 | 32, 40, 50, 65, 80 | 1, 1½, 2, 2½, 3 | Perforated plug and ST 3 | Linear | 24 | 15 | 0.073 | 0.43 | 0.72 | 1.3 | 1.9 | 2.5 | 3.1 | 3.7 | 4.4 | 5.0 | 5.7 | 6.3 | 7.0 |
| 7.5 | 9 | 65, 80 | 2½, 3 | | | 31 | 15 | 0.10 | 0.53 | 0.93 | 1.7 | 2.6 | 3.5 | 4.7 | 5.8 | 6.9 | 8.1 | 9.5 | 10.9 | 11.8 |
| 12 | 14 | 65, 80 | 2½, 3 | | | 31 | 15 | 0.28 | 1.5 | 2.5 | 4.3 | 6.2 | 8.1 | 9.8 | 11.2 | 12.3 | 13.2 | 13.8 | 14.3 | 14.5 |
| 20 | 23 | 65, 80 | 2½, 3 | | | 38 | 15 | 0.006 | 1.1 | 2.4 | 5.4 | 8.3 | 11.2 | 13.8 | 16.3 | 18.3 | 20.0 | 21.2 | 21.8 | 22.4 |
| 27 | 31 | 65, 80 | 2½, 3 | | | 48 | 15 | 0.64 | 1.1 | 2.5 | 6.0 | 9.4 | 13.0 | 16.4 | 20.0 | 23.4 | 26.7 | 29.4 | 31.3 | 33.1 |
| 47 | 55 | 100, 125, 150, 200, 250 | 4, 6, 8, 10 | | | 63 | 30 | 0.63 | 3.2 | 5.3 | 10.9 | 18.7 | 27.3 | 36.4 | 44.0 | 50.0 | 54.5 | 57.9 | 60.5 | 62.6 |
| 75 | 90 | 125, 150, 200, 250 | 6, 8, 10 | | | 80 | 30 | 1.0 | 6.9 | 12.1 | 23.0 | 34.1 | 44.4 | 54.0 | 62.3 | 69.1 | 73.6 | 77.3 | 80.2 | 82.5 |
| 80 | 100 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 100 | 30 | 0.5 | 5.5 | 10.8 | 22.2 | 34.9 | 47.5 | 59.9 | 71.1 | 81.3 | 90.1 | 97.1 | 103.0 | 108.2 |
| 190 | 220 | 200, 250, 300 | 8, 10, 12 | | | 125 | 60 | 2.4 | 13.0 | 23.1 | 47.2 | 74.8 | 104.7 | 131.8 | 157.3 | 179.1 | 196.5 | 210.2 | 220.0 | 227.2 |
| 230 | 270 | 200, 250, 300 | 8, 10, 12 | | | 150 | 60 | 3.2 | 16.5 | 27.8 | 53.1 | 83.6 | 119.1 | 153.8 | 184.8 | 208.8 | 224.4 | 233.1 | 235.3 | 237.0 |
| 375 | 435 | 250, 300 | 10, 12 | | | 200 | 60 | 7.5 | 18.0 | 39.1 | 92.1 | 144.6 | 199.3 | 251.9 | 297.0 | 337.5 | 373.2 | 402.6 | 424.8 | 442.0 |
| 675 | 780 | 300 | 12 | | | 250 | 120 | 9.0 | 45.0 | 83.4 | 167.5 | 266.9 | 379.1 | 484.5 | 581.4 | 658.8 | 717.4 | 749.8 | 767.2 | 783.6 |

**Table 3241.18:** *$K_V$ coefficients ($m^3/h$) for Type 3241 Globe Valve: without valve trim, with cast body*

| Seat Ø [mm] | Flow coefficient ($3_{241}$) without valve trim | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DN 15 | DN 20 | DN 25 | DN 32 | DN 40 | DN 50 | DN 65 | DN 80 | DN 100 | DN 125 | DN 150 | DN 200 | DN 250 | DN 300 |
| 3 | 0.34 | 0.34 | 0.34 | – | – | – | – | – | – | – | – | – | – | – |
| 6 | 1.25 | 1.25 | 1.3 | 1.3 | 1.35 | 1.35 | – | – | – | – | – | – | – | – |
| 12 | 4.4 | 4.5 | 4.6 | 4.6 | 4.7 | 4.8 | – | – | – | – | – | – | – | – |
| 24 | – | 8.6 | 13 | 16.9 | 20 | 21.5 | – | – | – | – | – | – | – | – |
| 31 | – | – | – | 20.5 | 29 | 32 | – | – | – | – | – | – | – | – |
| 38 | – | – | – | – | 33 | 46 | 49 | 54 | – | – | – | – | – | – |
| 48 | – | – | – | – | – | 50 | 72 | 81 | – | – | – | – | – | – |
| 63 | – | – | – | – | – | – | 84 | 96 | 127 | 133 | 136 | – | – | – |
| 80 | – | – | – | – | – | – | – | 125 | 165 | 204 | 213 | – | – | – |
| 100 | – | – | – | – | – | – | – | – | 187 | 271 | 311 | – | – | – |
| 110 | – | – | – | – | – | – | – | – | – | 289 | – | – | – | – |
| 125 | – | – | – | – | – | – | – | – | – | – | – | 500 | 506 | 512 |
| 130 | – | – | – | – | – | – | – | – | – | – | 416 | – | – | – |
| 150 | – | – | – | – | – | – | – | – | – | – | – | 654 | 703 | 716 |
| 200 | – | – | – | – | – | – | – | – | – | – | – | 700 | 1040 | 1200 |
| 250 | – | – | – | – | – | – | – | – | – | – | – | – | 1150 | 1550 |
| 300 | – | – | – | – | – | – | – | – | – | – | – | – | – | 1670 |

**Table 3241.19:** *$K_V$ coefficients ($m^3/h$) for Type 3241 Globe Valve: without valve trim, with forged body*

| Seat Ø [mm] | Flow coefficient ($K_V$) without valve trim | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | DN 15 | DN 20 | DN 25 | DN 32 | DN 40 | DN 50 | DN 65 | DN 80 |
| 3 | 0.34 | 0.34 | 0.34 | – | – | – | – | – |
| 6 | 1.25 | 1.25 | 1.3 | 1.3 | 1.35 | 1.35 | – | – |
| 12 | 4.4 | 4.5 | 4.6 | 4.6 | 4.7 | 4.8 | – | – |
| 24 | – | 8.4 | 12.9 | 14.5 | 16.1 | 17.7 | – | – |
| 31 | – | – | – | 19.1 | 27 | 29 | – | – |
| 38 | – | – | – | – | 32 | 42 | 43 | 44 |
| 48 | – | – | – | – | – | 48 | 58 | 63 |
| 63 | – | – | – | – | – | – | 82 | 95 |
| 80 | – | – | – | – | – | – | – | 105 |

**Table 3241.20:** *$C_V$ coefficients (gpm) for Type 3241 Globe Valve: standard plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.12 | 0.1 | ½, ¾, 1 | 15, 20, 25 | Without | Equal percentage | 3 | 15 | 0.0020 | 0.0027 | 0.0035 | 0.0050 | 0.0070 | 0.0097 | 0.0150 | 0.0222 | 0.0311 | 0.0483 | 0.0744 | 0.1139 | 0.173 |
| 0.2 | 0.16 | ½, ¾, 1 | 15, 20, 25 | | | 3 | 15 | 0.0022 | 0.0028 | 0.0037 | 0.0055 | 0.0082 | 0.0134 | 0.020 | 0.031 | 0.046 | 0.067 | 0.107 | 0.199 | 0.309 |
| 0.3 | 0.25 | ½, ¾, 1 | 15, 20, 25 | | | 3 | 15 | 0.0044 | 0.0050 | 0.0062 | 0.0094 | 0.0157 | 0.0243 | 0.0367 | 0.0557 | 0.0886 | 0.138 | 0.214 | 0.317 | 0.364 |
| 0.5 | 0.4 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 6 | 15 | 0.009 | 0.010 | 0.013 | 0.022 | 0.033 | 0.051 | 0.074 | 0.107 | 0.151 | 0.221 | 0.328 | 0.504 | 0.871 |
| 0.75 | 0.63 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 6 | 15 | 0.015 | 0.022 | 0.028 | 0.042 | 0.061 | 0.083 | 0.119 | 0.166 | 0.246 | 0.364 | 0.533 | 0.782 | 1.2 |
| 1.2 | 1 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 6 | 15 | 0.022 | 0.029 | 0.036 | 0.051 | 0.076 | 0.113 | 0.172 | 0.261 | 0.390 | 0.572 | 0.853 | 1.27 | 1.46 |
| 2 | 1.6 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 12 | 15 | 0.0278 | 0.0379 | 0.0474 | 0.0725 | 0.111 | 0.169 | 0.255 | 0.392 | 0.595 | 0.900 | 1.34 | 1.97 | 3.00 |
| 3 | 2.5 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 12 | 15 | 0.040 | 0.054 | 0.069 | 0.113 | 0.177 | 0.276 | 0.421 | 0.640 | 0.972 | 1.43 | 2.10 | 3.21 | 4.30 |
| 5 | 4 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 12 | 15 | 0.095 | 0.111 | 0.136 | 0.204 | 0.309 | 0.441 | 0.653 | 1.008 | 1.60 | 2.74 | 4.08 | 4.85 | 5.2 |
| 7.5 | 6.3 | ¾, 1, 1½, 2 | 20, 25, 32, 40, 50 | | | 24 | 15 | 0.16 | 0.20 | 0.24 | 0.34 | 0.48 | 0.73 | 1.10 | 1.56 | 2.32 | 3.40 | 5.01 | 7.69 | 10.5 |
| 12 | 10 | ¾, 1, 1½, 2 | 20, 25, 32, 40, 50 | | | 24 | 15 | 0.15 | 0.27 | 0.34 | 0.54 | 0.81 | 1.18 | 1.69 | 2.43 | 3.52 | 5.4 | 9.4 | 12.1 | 14.2 |
| 20 | 16 | 1½, 2 | 32, 40, 50 | | | 31 | 15 | 0.41 | 0.51 | 0.61 | 0.91 | 1.38 | 2.07 | 3.0 | 4.4 | 6.5 | 9.8 | 14.3 | 18.6 | 21.2 |
| 30 | 25 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.60 | 0.75 | 0.92 | 1.32 | 1.99 | 3.0 | 4.8 | 7.8 | 12.0 | 17.2 | 22.5 | 27.5 | 30.9 |
| 47 | 40 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.86 | 0.93 | 1.14 | 2.3 | 5.0 | 9.3 | 15.4 | 22.4 | 29.2 | 35.5 | 40.6 | 45.3 | 49.2 |
| 70 | 60 | 2½, 3 | 65, 80 | | | 63 | 15 | 2.0 | 2.2 | 2.5 | 3.8 | 6.4 | 12.0 | 21.3 | 30.4 | 39.7 | 48.3 | 57.0 | 65.1 | 71.6 |
| 75 | 63 | 4, 6 | 100, 150 | | | 63 | 30 | 1.9 | 2.3 | 2.9 | 4.1 | 5.8 | 8.3 | 12.1 | 17.1 | 25.8 | 39.9 | 57.1 | 72.3 | 84.3 |
| 95 | 80 | 3 | 80 | | | 80 | 15 | 2.8 | 3.5 | 4.3 | 6.2 | 9.1 | 13.8 | 22.6 | 32.8 | 44.6 | 57.8 | 71.3 | 85.5 | 99.1 |
| 120 [1] | 100 [1] | 3 | 80 | | | 80 | 19 | 2.8 | 3.7 | 4.8 | 7.8 | 12.8 | 23.3 | 36.8 | 52.5 | 69.5 | 87.3 | 104.4 | 120.1 | – |
| 120 | 100 | 4, 6 | 100, 125, 150 | | | 80 | 30 | 1.22 | 1.66 | 2.3 | 4.0 | 6.4 | 9.7 | 15.7 | 26.4 | 46.1 | 69.3 | 93.1 | 114.7 | 133.9 |
| 190 | 160 | 4, 6 | 100, 125, 150 | | | 100 | 30 | 4.4 | 5.3 | 6.2 | 8.9 | 12.9 | 20.2 | 36.0 | 59.2 | 87.6 | 115.6 | 144.9 | 171.2 | 190.6 |
| – | 200 | – | 125 | | | 110 | 30 | 4.7 | 6.4 | 7.8 | 11.1 | 14.5 | 19.7 | 31.1 | 51.2 | 89.2 | 134.0 | 180.0 | 221.8 | 251.0 |
| 290 | 250 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 8.0 | 9.6 | 11.5 | 16.3 | 23.5 | 33.3 | 48.5 | 68.6 | 103.8 | 160.4 | 229.2 | 290.5 | 338.9 |
| 300 | 260 | 6 | 150 | | | 130 | 30 | 8.1 | 9.7 | 12.9 | 22.5 | 42.5 | 77.5 | 116.5 | 157.3 | 196.0 | 235.5 | 271.8 | 305.3 | 334.5 |
| 420 | 360 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 9.4 | 12.0 | 15.3 | 22.6 | 33.1 | 47.8 | 66.9 | 106.3 | 178.6 | 268.3 | 360.1 | 451.0 | 518.8 |
| 735 | 630 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 16.7 | 20.9 | 25.8 | 40.0 | 67.3 | 130.8 | 231.4 | 344.5 | 472.8 | 559.0 | 630.2 | 671.0 | 703.5 |
| 1150 | 1000 | 10, 12 | 250, 300 | | | 250 | 120 | 16.1 | 22.6 | 31.8 | 53.4 | 88.3 | 136.8 | 205.6 | 301.1 | 462.3 | 707.7 | 975.6 | 1241.9 | 1369.5 |
| 1730 | 1500 | 12 | 300 | | | 300 | 120 | 23.2 | 32.6 | 45.9 | 77.1 | 119.3 | 177.9 | 267.3 | 391.4 | 601.0 | 920.0 | 1268.2 | 1614.2 | 1736.9 |

[1] With 19 mm overtravel (not for version with bellows seal)

**Table 3241.21:** *CV coefficients (gpm) for Type 3241 Globe Valve: standard plug without flow divider, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.12 | 0.1 | ½, ¾, 1 | 15, 20, 25 | Without | Linear | 3 | 15 | 0.0016 | 0.0109 | 0.019 | 0.031 | 0.041 | 0.051 | 0.061 | 0.072 | 0.083 | 0.094 | 0.106 | 0.117 | 0.129 |
| 0.2 | 0.16 | ½, ¾, 1 | 15, 20, 25 | | | 3 | 15 | 0.0037 | 0.0130 | 0.022 | 0.038 | 0.056 | 0.074 | 0.093 | 0.112 | 0.130 | 0.149 | 0.167 | 0.186 | 0.206 |
| 0.3 | 0.25 | ½, ¾, 1 | 15, 20, 25 | | | 3 | 15 | 0.0057 | 0.029 | 0.046 | 0.074 | 0.101 | 0.129 | 0.156 | 0.184 | 0.211 | 0.238 | 0.266 | 0.293 | 0.320 |
| 0.5 | 0.4 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 6 | 15 | 0.0068 | 0.040 | 0.067 | 0.119 | 0.166 | 0.213 | 0.260 | 0.307 | 0.355 | 0.402 | 0.449 | 0.496 | 0.544 |
| 0.75 | 0.63 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 6 | 15 | 0.0076 | 0.045 | 0.083 | 0.161 | 0.238 | 0.315 | 0.392 | 0.469 | 0.546 | 0.623 | 0.699 | 0.776 | 0.853 |
| 1.2 | 1 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 6 | 15 | 0.011 | 0.081 | 0.140 | 0.253 | 0.371 | 0.489 | 0.607 | 0.725 | 0.843 | 0.961 | 1.079 | 1.197 | 1.315 |
| 2 | 1.6 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 12 | 15 | 0.028 | 0.122 | 0.217 | 0.407 | 0.604 | 0.802 | 0.999 | 1.196 | 1.394 | 1.59 | 1.79 | 1.99 | 2.18 |
| 3 | 2.5 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 12 | 15 | 0.053 | 0.160 | 0.289 | 0.577 | 0.902 | 1.23 | 1.55 | 1.87 | 2.20 | 2.5 | 2.8 | 3.2 | 3.5 |
| 5 | 4 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 12 | 15 | 0.054 | 0.28 | 0.51 | 0.97 | 1.44 | 1.90 | 2.4 | 2.8 | 3.3 | 3.8 | 4.2 | 4.7 | 5.1 |
| 7.5 | 6.3 | ¾, 1, 1½, 2 | 20, 25, 32, 40, 50 | | | 24 | 15 | 0.094 | 0.49 | 0.86 | 1.58 | 2.3 | 3.0 | 3.7 | 4.4 | 5.1 | 5.8 | 6.5 | 7.2 | 7.9 |
| 12 | 10 | ¾, 1, 1½, 2 | 20, 25, 32, 40, 50 | | | 24 | 15 | 0.10 | 0.73 | 1.3 | 2.5 | 3.6 | 4.8 | 6.0 | 7.2 | 8.3 | 9.5 | 10.7 | 11.9 | 13.0 |
| 20 | 16 | 1½, 2 | 32, 40, 50 | | | 31 | 15 | 0.30 | 1.37 | 2.3 | 4.1 | 5.9 | 7.8 | 9.6 | 11.4 | 13.2 | 15.1 | 17.2 | 19.3 | 21.4 |
| 30 | 25 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.48 | 0.89 | 1.41 | 3.5 | 6.4 | 9.4 | 12.4 | 15.3 | 18.3 | 21.2 | 24.2 | 27.2 | 30.1 |
| 47 | 40 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.82 | 1.45 | 2.24 | 5.2 | 10.0 | 15.0 | 19.9 | 24.9 | 29.9 | 34.8 | 39.8 | 44.8 | 49.7 |
| 70 | 60 | 2½, 3 | 65, 80 | | | 63 | 15 | 1.0 | 5.4 | 9.5 | 17.3 | 25.1 | 33.0 | 40.8 | 48.3 | 55.1 | 61.5 | 67.9 | 74.3 | 80.7 |
| 75 | 63 | 4, 6 | 100, 150 | | | 63 | 30 | 2.0 | 2.9 | 5.3 | 13.2 | 21.4 | 29.6 | 37.8 | 46.1 | 54.3 | 62.5 | 70.8 | 79.0 | 87.2 |
| 95 | 80 | 3 | 80 | | | 80 | 15 | 1.4 | 4.2 | 7.2 | 14.5 | 21.8 | 29.6 | 37.4 | 46.3 | 56.3 | 66.3 | 76.4 | 86.4 | 96.4 |
| 120 [1] | 100 [1] | 3 | 80 | | | 80 | 19 | 1.5 | 5.2 | 9.9 | 20.5 | 32.7 | 45.5 | 58.7 | 71.5 | 83.6 | 95.8 | 108.0 | 120.1 | – |
| 120 | 100 | 4, 6 | 100, 125, 150 | | | 80 | 30 | 2.9 | 4.4 | 9.0 | 22.5 | 36.0 | 49.6 | 63.1 | 76.6 | 90.1 | 103.6 | 117.1 | 130.7 | 144.2 |
| 190 | 160 | 4, 6 | 100, 125, 150 | | | 100 | 30 | 4.8 | 6.8 | 13.0 | 31.8 | 49.9 | 68.0 | 86.2 | 104.3 | 122.4 | 140.5 | 158.7 | 176.8 | 192.9 |
| – | 200 | – | 125 | | | 110 | 30 | 7.3 | 10.1 | 18.7 | 39.8 | 63.1 | 86.4 | 109.8 | 133.1 | 156.4 | 179.7 | 203.0 | 226.3 | 249.6 |
| 290 | 250 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 7.1 | 12.5 | 22.2 | 47.9 | 80.2 | 112.6 | 144.9 | 177.2 | 209.5 | 241.9 | 274.2 | 306.5 | 338.8 |
| 300 | 260 | 6 | 150 | | | 130 | 30 | 6.9 | 9.5 | 13.8 | 29.5 | 59.7 | 93.7 | 132.7 | 173.5 | 210.5 | 246.7 | 282.9 | 319.1 | 350.8 |
| 420 | 360 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 10.6 | 15.5 | 26.9 | 66.2 | 115.1 | 163.9 | 212.8 | 261.7 | 310.5 | 359.4 | 408.3 | 457.1 | 506.0 |
| 735 | 630 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 18.7 | 40.9 | 65.7 | 127.6 | 193.0 | 264.1 | 331.8 | 400.6 | 465.9 | 531.3 | 596.6 | 662.0 | 722.7 |
| 1150 | 1000 | 10, 12 | 250, 300 | | | 250 | 120 | 17.8 | 28.6 | 66.5 | 187.6 | 316.8 | 446.0 | 575.2 | 704.4 | 833.5 | 962.7 | 1091.9 | 1221.1 | 1338.7 |
| 1730 | 1500 | 12 | 300 | | | 300 | 120 | 23.2 | 38.4 | 104.0 | 275.5 | 443.6 | 611.7 | 779.8 | 947.9 | 1115.9 | 1284.0 | 1452.1 | 1620.2 | 1740.2 |

[1] With 19 mm overtravel (not for version with bellows seal)

**Table 3241.22:** *$C_V$ coefficients (gpm) for Type 3241 Globe Valve: standard plug with flow divider ST 1, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 1.7 | 1.45 | ½, ¾, 1 | 15, 20, 25 | ST 1 | Equal percentage | 12 | 15 | 0.028 | 0.037 | 0.046 | 0.071 | 0.106 | 0.16 | 0.23 | 0.37 | 0.58 | 0.88 | 1.32 | 1.94 | 3.0 |
| 2.6 | 2.2 | ½, ¾, 1 | 15, 20, 25 | | | 12 | 15 | 0.025 | 0.029 | 0.05 | 0.09 | 0.17 | 0.27 | 0.41 | 0.62 | 0.95 | 1.41 | 2.07 | 3.1 | 4.2 |
| 4.2 | 3.6 | ½, ¾, 1 | 15, 20, 25 | | | 12 | 15 | 0.077 | 0.094 | 0.12 | 0.18 | 0.28 | 0.43 | 0.65 | 0.99 | 1.52 | 2.5 | 3.8 | 4.6 | 5.0 |
| 7 | 5.7 | 1½, 2 | 32, 40, 50 | | | 24 | 15 | 0.16 | 0.20 | 0.24 | 0.34 | 0.48 | 0.73 | 1.09 | 1.55 | 2.31 | 3.3 | 4.8 | 7.3 | 10.0 |
| 10.5 | 9 | 1½, 2 | 32, 40, 50 | | | 24 | 15 | 0.15 | 0.27 | 0.34 | 0.54 | 0.81 | 1.18 | 1.69 | 2.4 | 3.5 | 5.3 | 9.2 | 11.9 | 13.9 |
| 17 | 14.5 | 1½, 2 | 32, 40, 50 | | | 31 | 15 | 0.31 | 0.43 | 0.55 | 0.81 | 1.24 | 1.87 | 2.7 | 3.9 | 5.8 | 9.0 | 13.4 | 17.7 | 20.6 |
| 26 | 22 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.60 | 0.75 | 0.92 | 1.32 | 1.99 | 3.0 | 4.8 | 7.8 | 11.9 | 16.9 | 21.8 | 26.4 | 29.5 |
| 42 | 36 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.86 | 0.93 | 1.14 | 2.31 | 5.0 | 9.3 | 15.4 | 21.5 | 27.2 | 32.5 | 37.0 | 41.3 | 44.5 |
| 62 | 54 | 2½, 3 | 65, 80 | | | 63 | 15 | 2.0 | 2.2 | 2.5 | 3.8 | 6.4 | 12.0 | 21.3 | 30.4 | 39.1 | 46.7 | 53.1 | 59.3 | 63.2 |
| 67 | 57 | 4, 6 | 100, 150 | | | 63 | 30 | 1.9 | 2.3 | 2.9 | 4.1 | 5.8 | 8.3 | 12.0 | 16.7 | 24.8 | 38.2 | 52.6 | 65.5 | 74.9 |
| 85 | 72 | 3 | 80 | | | 80 | 15 | 2.8 | 3.5 | 4.3 | 6.2 | 9.1 | 13.8 | 22.6 | 32.8 | 44.2 | 54.6 | 67.3 | 77.0 | 85.0 |
| 105 | 90 | 4, 6 | 100, 125, 150 | | | 80 | 30 | 1.2 | 1.7 | 2.3 | 4.0 | 6.4 | 9.7 | 15.7 | 26.4 | 45.6 | 64.7 | 84.7 | 100.9 | 116.3 |
| 170 | 144 | 4, 6 | 100, 150 | | | 100 | 30 | 4.4 | 5.3 | 6.2 | 8.9 | 12.9 | 20.2 | 36.0 | 59.2 | 86.8 | 109.2 | 134.0 | 154.0 | 169.6 |
| 210 | 180 | – | 125 | | | 110 | 30 | 4.7 | 6.4 | 7.8 | 11.1 | 14.5 | 19.7 | 31.1 | 51.2 | 88.2 | 125.1 | 163.8 | 195.2 | 217.9 |
| 265 | 225 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 8.0 | 9.6 | 11.5 | 16.3 | 23.5 | 33.3 | 48.5 | 68.6 | 103.0 | 153.4 | 215.5 | 267.3 | 309.1 |
| 275 | 234 | 6 | 150 | | | 130 | 30 | 8.1 | 9.7 | 12.9 | 22.5 | 42.5 | 72.9 | 104.8 | 134.9 | 166.6 | 200.2 | 231.1 | 259.5 | 284.3 |
| 375 | 320 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 9.4 | 12.0 | 15.3 | 22.6 | 33.1 | 47.8 | 66.9 | 106.3 | 177.1 | 255.9 | 337.5 | 413.1 | 470.9 |
| 650 | 560 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 16.7 | 20.9 | 25.8 | 40.0 | 67.3 | 119.0 | 210.5 | 313.5 | 430.2 | 508.7 | 573.4 | 610.6 | 640.2 |
| 1040 | 900 | 10, 12 | 250, 300 | | | 250 | 120 | 16.1 | 22.6 | 31.8 | 53.4 | 82.6 | 123.1 | 185.0 | 271.0 | 416.0 | 636.0 | 875.6 | 1112.2 | 1225.2 |
| 1560 | 1350 | 12 | 300 | | | 300 | 120 | 23.2 | 32.6 | 45.9 | 77.1 | 119.3 | 177.9 | 267.3 | 391.4 | 595.0 | 869.4 | 1173.1 | 1452.7 | 1571.9 |

**Table 3241.23:** *CV coefficients (gpm) for Type 3241 Globe Valve: standard plug with flow divider ST 1, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 1.7 | 1.45 | ½, ¾, 1 | 15, 20, 25 | ST 1 | Linear | 12 | 15 | 0.018 | 0.10 | 0.19 | 0.37 | 0.57 | 0.76 | 0.95 | 1.15 | 1.34 | 1.53 | 1.73 | 1.9 | 2.1 |
| 2.6 | 2.2 | ½, ¾, 1 | 15, 20, 25 | | | 12 | 15 | 0.033 | 0.13 | 0.26 | 0.54 | 0.87 | 1.19 | 1.52 | 1.85 | 2.2 | 2.5 | 2.8 | 3.2 | 3.5 |
| 4.2 | 3.6 | ½, ¾, 1 | 15, 20, 25 | | | 12 | 15 | 0.020 | 0.24 | 0.49 | 0.95 | 1.39 | 1.83 | 2.3 | 2.7 | 3.1 | 3.6 | 4.0 | 4.4 | 4.9 |
| 7 | 5.7 | 1½, 2 | 32, 40, 50 | | | 24 | 15 | 0.1 | 0.5 | 0.9 | 1.6 | 2.3 | 3.0 | 3.6 | 4.3 | 5.0 | 5.7 | 6.4 | 7.1 | 7.8 |
| 10.5 | 9 | 1½, 2 | 32, 40, 50 | | | 24 | 15 | 0.10 | 0.73 | 1.29 | 2.4 | 3.6 | 4.8 | 5.9 | 7.1 | 8.3 | 9.4 | 10.6 | 11.7 | 12.9 |
| 17 | 14.5 | 1½, 2 | 32, 40, 50 | | | 31 | 15 | 0.30 | 1.37 | 2.3 | 3.9 | 5.6 | 7.3 | 9.0 | 10.7 | 12.4 | 14.2 | 16.0 | 17.9 | 19.8 |
| 26 | 22 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.48 | 0.89 | 1.41 | 3.3 | 6.1 | 8.8 | 11.5 | 14.2 | 17.0 | 19.8 | 22.5 | 25.3 | 28.0 |
| 42 | 36 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.82 | 1.45 | 2.24 | 4.9 | 9.5 | 14.1 | 18.7 | 23.4 | 28.1 | 32.7 | 37.4 | 42.1 | 46.8 |
| 62 | 54 | 2½, 3 | 65, 80 | | | 63 | 15 | 1.04 | 5.4 | 9.5 | 16.9 | 23.5 | 29.7 | 35.8 | 42.0 | 47.9 | 53.5 | 59.1 | 64.7 | 70.2 |
| 67 | 57 | 4, 6 | 100, 150 | | | 63 | 30 | 2.0 | 2.9 | 5.3 | 12.6 | 20.4 | 28.0 | 35.6 | 43.3 | 51.0 | 58.8 | 66.5 | 74.2 | 82.0 |
| 85 | 72 | 3 | 80 | | | 80 | 15 | 1.4 | 4.2 | 7.2 | 14.5 | 21.8 | 29.6 | 37.4 | 45.3 | 53.1 | 61.0 | 68.9 | 76.7 | 84.6 |
| 105 | 90 | 4, 6 | 100, 125, 150 | | | 80 | 30 | 2.9 | 4.4 | 8.7 | 20.1 | 32.1 | 44.2 | 55.5 | 67.4 | 79.3 | 91.2 | 103.1 | 115.0 | 126.9 |
| 170 | 144 | 4, 6 | 100, 150 | | | 100 | 30 | 4.8 | 6.8 | 13.0 | 28.3 | 44.5 | 60.7 | 75.8 | 91.8 | 107.7 | 123.7 | 139.6 | 155.6 | 169.7 |
| 210 | 180 | – | 125 | | | 110 | 30 | 7.3 | 10.1 | 17.4 | 35.5 | 56.3 | 76.1 | 96.6 | 117.1 | 137.6 | 158.1 | 178.6 | 199.1 | 219.6 |
| 265 | 225 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 7.1 | 12.5 | 21.1 | 44.5 | 73.8 | 103.6 | 133.3 | 163.0 | 192.8 | 222.5 | 252.3 | 282.0 | 311.7 |
| 275 | 234 | 6 | 150 | | | 130 | 30 | 6.9 | 9.5 | 13.8 | 29.5 | 59.7 | 89.9 | 120.1 | 150.4 | 180.6 | 210.8 | 241.0 | 271.2 | 301.4 |
| 375 | 320 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 10.6 | 15.5 | 25.1 | 59.6 | 102.4 | 145.9 | 189.4 | 232.9 | 276.4 | 319.9 | 363.3 | 406.8 | 450.3 |
| 650 | 560 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 18.7 | 40.9 | 62.2 | 117.3 | 175.6 | 240.3 | 301.9 | 364.5 | 424.0 | 483.5 | 542.9 | 602.4 | 661.1 |
| 1040 | 900 | 10, 12 | 250, 300 | | | 250 | 120 | 17.8 | 28.6 | 62.5 | 170.8 | 285.1 | 401.4 | 517.7 | 633.9 | 750.2 | 866.4 | 982.7 | 1099.0 | 1204.8 |
| 1560 | 1350 | 12 | 300 | | | 300 | 120 | 23.2 | 38.4 | 97.7 | 248.0 | 399.2 | 550.5 | 701.8 | 853.1 | 1004.4 | 1155.6 | 1306.9 | 1458.2 | 1566.2 |

**Table 3241.24:** *$C_V$ coefficients (gpm) for Type 3241 Globe Valve: standard plug with flow divider ST 2, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **$C_V$** | **$K_{VS}$** | **NPS** | **DN** | **GM** | **KL** | **Seat Ø [mm]** | **Travel [mm]** | **0** | **5** | **10** | **20** | **30** | **40** | **50** | **60** | **70** | **80** | **90** | **100** | **110** |
| 9.5 | 8 | 1½, 2 | 32, 40, 50 | ST 2 | Equal percentage | 24 | 15 | 0.15 | 0.27 | 0.34 | 0.54 | 0.81 | 1.18 | 1.69 | 2.4 | 3.5 | 5.3 | 9.2 | 11.7 | 13.7 |
| 15 | 13 | 1½, 2 | 32, 40, 50 | | | 31 | 15 | 0.31 | 0.43 | 0.55 | 0.81 | 1.24 | 1.87 | 2.7 | 3.9 | 5.7 | 8.9 | 13.1 | 17.2 | 19.9 |
| 23 | 20 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.60 | 0.75 | 0.92 | 1.32 | 1.99 | 3.0 | 4.8 | 7.8 | 11.9 | 16.8 | 21.7 | 26.1 | 29.2 |
| 37 | 32 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.86 | 0.93 | 1.14 | 2.31 | 5.0 | 9.3 | 15.4 | 21.5 | 27.2 | 32.3 | 36.7 | 40.9 | 44.0 |
| 56 | 48 | 2½, 3 | 65, 80 | | | 63 | 15 | 2.0 | 2.2 | 2.5 | 3.8 | 6.4 | 12.0 | 21.3 | 29.8 | 38.3 | 44.4 | 49.3 | 53.4 | 56.8 |
| 60 | 50 | 4, 6 | 100, 150 | | | 63 | 30 | 1.9 | 2.3 | 2.9 | 4.1 | 5.8 | 8.3 | 12.1 | 16.8 | 25.1 | 37.2 | 50.6 | 61.8 | 70.3 |
| 75 | 63 | 3 | 80 | | | 80 | 15 | 2.8 | 3.5 | 4.3 | 6.2 | 9.1 | 13.8 | 22.6 | 32.3 | 43.0 | 53.1 | 64.0 | 73.6 | 79.7 |
| 95 | 80 | 4, 6 | 100, 125, 150 | | | 80 | 30 | 1.2 | 1.7 | 2.3 | 4.0 | 6.4 | 9.7 | 15.7 | 26.0 | 44.5 | 63.6 | 80.5 | 94.0 | 106.2 |
| 145 | 125 | 4, 6 | 100, 150 | | | 100 | 30 | 4.4 | 5.3 | 6.2 | 8.9 | 12.9 | 20.2 | 36.0 | 58.1 | 84.5 | 106.2 | 125.3 | 140.4 | 151.1 |
| 190 | 160 | – | 125 | | | 110 | 30 | 4.7 | 6.4 | 7.8 | 11.1 | 14.5 | 19.7 | 31.1 | 50.2 | 86.0 | 123.1 | 155.7 | 181.9 | 199.1 |
| 235 | 200 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 8.0 | 9.6 | 11.5 | 16.3 | 23.5 | 33.3 | 48.5 | 67.5 | 100.5 | 148.9 | 201.7 | 244.0 | 276.5 |
| 245 | 210 | 6 | 150 | | | 130 | 30 | 8.1 | 9.7 | 12.9 | 22.5 | 42.5 | 72.9 | 104.8 | 134.9 | 165.8 | 194.7 | 222.4 | 246.5 | 268.7 |
| 335 | 290 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 9.4 | 12.0 | 15.3 | 22.6 | 33.1 | 47.8 | 66.9 | 104.5 | 172.6 | 245.5 | 314.2 | 374.3 | 417.4 |
| 580 | 500 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 16.7 | 20.9 | 25.8 | 40.0 | 67.3 | 119.0 | 210.5 | 313.5 | 425.3 | 491.9 | 545.3 | 573.9 | 597.9 |
| 950 | 800 | 10, 12 | 250, 300 | | | 250 | 120 | 16.1 | 22.6 | 31.8 | 53.4 | 82.6 | 123.1 | 185.0 | 271.0 | 414.0 | 619.2 | 844.4 | 1060.3 | 1162.7 |
| 1400 | 1200 | 12 | 300 | | | 300 | 120 | 23.2 | 32.6 | 45.9 | 77.1 | 119.3 | 177.9 | 267.3 | 384.3 | 579.3 | 837.2 | 1097.0 | 1323.6 | 1442.7 |

**Table 3241.25:** *CV coefficients (gpm) for Type 3241 Globe Valve: standard plug with flow divider ST 2, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 9.5 | 8 | 1½, 2 | 32, 40, 50 | ST 2 | Linear | 24 | 15 | 0.10 | 0.73 | 1.29 | 2.4 | 3.6 | 4.7 | 5.9 | 7.0 | 8.2 | 9.3 | 10.5 | 11.6 | 12.8 |
| 15 | 13 | 1½, 2 | 32, 40, 50 | | | 31 | 15 | 0.30 | 1.37 | 2.3 | 3.9 | 5.6 | 7.2 | 8.8 | 10.5 | 12.2 | 13.9 | 15.8 | 17.6 | 19.5 |
| 23 | 20 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.48 | 0.89 | 1.41 | 3.3 | 6.0 | 8.7 | 11.4 | 14.1 | 16.8 | 19.5 | 22.3 | 25.0 | 27.7 |
| 37 | 32 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.82 | 1.45 | 2.24 | 4.9 | 9.4 | 14.0 | 18.5 | 23.1 | 27.8 | 32.4 | 37.0 | 41.6 | 46.3 |
| 56 | 48 | 2½, 3 | 65, 80 | | | 63 | 15 | 1.04 | 5.4 | 9.5 | 16.2 | 22.5 | 28.5 | 34.4 | 40.5 | 46.3 | 51.7 | 57.0 | 62.4 | 67.8 |
| 60 | 50 | 4, 6 | 100, 150 | | | 63 | 30 | 2.0 | 2.9 | 5.3 | 12.5 | 20.2 | 27.8 | 35.2 | 42.8 | 50.5 | 58.2 | 65.8 | 73.5 | 81.1 |
| 75 | 63 | 3 | 80 | | | 80 | 15 | 1.4 | 4.2 | 7.2 | 14.5 | 21.8 | 29.6 | 37.4 | 45.0 | 52.5 | 59.6 | 66.8 | 73.6 | 78.2 |
| 95 | 80 | 4, 6 | 100, 125, 150 | | | 80 | 30 | 2.9 | 4.4 | 8.7 | 19.3 | 30.8 | 42.4 | 53.0 | 64.3 | 75.7 | 87.0 | 98.4 | 109.8 | 121.1 |
| 145 | 125 | 4, 6 | 100, 150 | | | 100 | 30 | 4.8 | 6.8 | 13.0 | 27.2 | 42.7 | 58.2 | 72.4 | 87.6 | 102.8 | 118.0 | 133.3 | 148.5 | 162.0 |
| 190 | 160 | – | 125 | | | 110 | 30 | 7.3 | 10.1 | 16.7 | 33.4 | 52.9 | 70.9 | 90.0 | 109.1 | 128.2 | 147.3 | 166.4 | 185.6 | 204.7 |
| 235 | 200 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 7.1 | 12.5 | 20.1 | 41.0 | 67.4 | 94.6 | 121.7 | 148.9 | 176.0 | 203.2 | 230.3 | 257.5 | 284.6 |
| 245 | 210 | 6 | 150 | | | 130 | 30 | 6.9 | 9.5 | 13.8 | 29.5 | 53.9 | 80.7 | 109.7 | 138.8 | 168.4 | 197.3 | 226.3 | 255.2 | 280.6 |
| 335 | 290 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 10.6 | 15.5 | 25.6 | 61.4 | 100.1 | 139.2 | 178.4 | 217.5 | 256.7 | 295.9 | 335.0 | 374.2 | 413.3 |
| 580 | 500 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 18.7 | 40.9 | 60.2 | 111.5 | 165.9 | 227.1 | 285.3 | 344.5 | 400.7 | 456.9 | 513.1 | 569.3 | 621.5 |
| 950 | 800 | 10, 12 | 250, 300 | | | 250 | 120 | 17.8 | 28.6 | 60.9 | 164.0 | 272.5 | 383.6 | 494.7 | 605.8 | 716.8 | 827.9 | 939.0 | 1050.1 | 1151.3 |
| 1400 | 1200 | 12 | 300 | | | 300 | 120 | 23.2 | 38.4 | 92.7 | 225.9 | 363.7 | 501.6 | 639.4 | 777.2 | 915.1 | 1052.9 | 1190.7 | 1328.6 | 1427.0 |

**Table 3241.26:** *$C_V$ coefficients (gpm) for Type 3241 Globe Valve: standard plug with flow divider ST 3, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 9 | 7.5 | 2 | 50 | ST 3 | Equal percentage | 24 | 15 | 0.15 | 0.27 | 0.34 | 0.54 | 0.81 | 1.18 | 1.69 | 2.4 | 3.5 | 5.2 | 9.0 | 11.5 | 13.4 |
| 23 | 20 | 2½, 3 | 65, 80 | | | 38 | 15 | 0.60 | 0.75 | 0.92 | 1.3 | 2.0 | 3.0 | 4.8 | 7.8 | 11.9 | 16.7 | 21.5 | 25.9 | 28.8 |
| 35 | 30 | 2½, 3 | 65, 80 | | | 48 | 15 | 0.86 | 0.93 | 1.14 | 2.31 | 5.0 | 9.3 | 15.4 | 21.5 | 27.2 | 32.1 | 36.4 | 40.5 | 43.5 |
| 55 | 47 | 4, 6 | 100, 150 | | | 63 | 30 | 1.9 | 2.3 | 2.9 | 4.1 | 5.6 | 7.5 | 9.9 | 13.8 | 20.9 | 32.9 | 47.2 | 60.3 | 69.0 |
| – | 75 | 6 | 125, 150 | | | 80 | 30 | 1.2 | 1.7 | 2.3 | 4.0 | 6.4 | 9.7 | 15.7 | 25.9 | 44.3 | 63.0 | 79.1 | 91.8 | 103.1 |
| 140 | 120 | 6 | 150 | | | 100 | 30 | 4.4 | 5.3 | 6.2 | 8.9 | 12.9 | 20.2 | 36.0 | 58.0 | 84.0 | 104.6 | 122.1 | 135.2 | 144.6 |
| 220 | 190 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 8.0 | 9.6 | 11.5 | 16.3 | 23.5 | 33.3 | 48.5 | 67.3 | 100.1 | 147.4 | 198.3 | 238.2 | 268.7 |
| 315 | 270 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 9.4 | 12.0 | 15.3 | 22.6 | 33.1 | 47.8 | 66.9 | 97.9 | 148.4 | 211.0 | 280.3 | 354.2 | 389.8 |
| 560 | 480 | 10, 12 | 250, 300 | | | 200 | 60 | 16.7 | 20.9 | 25.8 | 40.0 | 67.3 | 119.0 | 210.5 | 313.5 | 423.7 | 489.1 | 541.0 | 567.8 | 590.9 |
| 880 | 750 | 12 | 300 | | | 250 | 120 | 16.1 | 22.6 | 31.8 | 53.4 | 82.6 | 123.1 | 185.0 | 271.0 | 413.1 | 612.4 | 831.9 | 1039.5 | 1137.6 |

**Table 3241.27:** *CV coefficients (gpm) for Type 3241 Globe Valve: standard plug with flow divider ST 3, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 9 | 7.5 | 2 | 50 | ST 3 | Linear | 24 | 15 | 0.10 | 0.73 | 1.29 | 2.4 | 3.6 | 4.7 | 5.8 | 6.9 | 8.1 | 9.2 | 10.4 | 11.5 | 12.6 |
| 23 | 20 | 2½, 3 | 65, 80 | | | 38 | 15 | 0.48 | 0.89 | 1.41 | 3.2 | 6.0 | 8.6 | 11.2 | 13.9 | 16.6 | 19.3 | 22.0 | 24.7 | 27.4 |
| 35 | 30 | 2½, 3 | 65, 80 | | | 48 | 15 | 0.82 | 1.45 | 2.24 | 4.9 | 9.3 | 13.9 | 18.3 | 22.9 | 27.5 | 32.0 | 36.6 | 41.2 | 45.8 |
| 55 | 47 | 4, 6 | 100, 150 | | | 63 | 30 | 1.99 | 2.9 | 5.3 | 12.4 | 20.0 | 27.5 | 34.8 | 42.4 | 50.0 | 57.5 | 65.1 | 72.7 | 80.2 |
| – | 75 | 6 | 125, 150 | | | 80 | 30 | 2.9 | 4.4 | 8.7 | 18.9 | 30.2 | 41.5 | 51.7 | 62.8 | 73.9 | 85.0 | 96.1 | 107.1 | 118.2 |
| 140 | 120 | 6 | 150 | | | 100 | 30 | 4.8 | 6.8 | 13.0 | 26.6 | 41.8 | 57.0 | 70.6 | 85.5 | 100.4 | 115.2 | 130.1 | 145.0 | 158.2 |
| 220 | 190 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 7.1 | 12.5 | 19.8 | 40.2 | 65.8 | 92.3 | 118.8 | 145.3 | 171.8 | 198.3 | 224.8 | 251.3 | 277.9 |
| 315 | 270 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 10.6 | 15.5 | 23.5 | 53.7 | 90.9 | 129.5 | 168.1 | 206.7 | 245.3 | 283.9 | 322.5 | 361.1 | 399.7 |
| 560 | 480 | 10, 12 | 250, 300 | | | 200 | 60 | 18.7 | 40.9 | 59.8 | 110.4 | 164.0 | 224.5 | 282.0 | 340.5 | 396.0 | 451.6 | 507.1 | 562.7 | 614.3 |
| 880 | 750 | 12 | 300 | | | 250 | 120 | 17.8 | 28.6 | 60.5 | 162.3 | 269.3 | 379.1 | 488.9 | 598.7 | 708.5 | 818.3 | 928.1 | 1037.9 | 1137.9 |

**Table 3241.28:** *CV coefficients (gpm) for Type 3241 Globe Valve: AC-1 trim with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 26 | 22 | 2, 3, 4 | 50, 80, 100 | AC-1 | Equal percentage | 38 | 15 | 0.40 | 0.49 | 0.64 | 1.1 | 1.7 | 2.7 | 4.0 | 5.8 | 9.0 | 14.5 | 19.8 | 24.7 | 28.4 |
| 40 | 35 | 2, 3 | 50, 80 | | | 48 | 15 | 0.66 | 0.75 | 0.95 | 1.7 | 2.8 | 4.3 | 6.6 | 9.7 | 15.0 | 26.5 | 35.7 | 41.6 | 46.0 |
| 45 | 38 | 4 | 100 | | | 48 | 15 | 0.80 | 0.98 | 1.2 | 2.0 | 3.1 | 4.6 | 6.8 | 10.1 | 15.2 | 22.6 | 33.3 | 45.8 | 58.1 |
| 60 | 50 | 3 | 80 | | | 63 | 15 | 1.07 | 1.3 | 1.7 | 2.6 | 4.1 | 6.1 | 9.0 | 13.3 | 19.9 | 29.8 | 43.9 | 59.1 | 73.6 |
| 65 | 55 | 4 | 100 | | | 63 | 30 | 1.2 | 1.4 | 1.8 | 2.9 | 4.5 | 6.7 | 9.9 | 14.6 | 21.9 | 32.7 | 48.2 | 66.4 | 84.0 |
| 90 | 75 | 4 | 100 | | | 80 | 30 | 1.6 | 1.9 | 2.5 | 3.9 | 6.2 | 9.2 | 13.5 | 19.9 | 29.9 | 44.6 | 65.8 | 88.7 | 110.4 |
| 110 | 95 | 6 | 150 | | | 80 | 30 | 2.0 | 2.5 | 3.1 | 5.0 | 7.8 | 11.6 | 17.1 | 25.2 | 37.9 | 56.5 | 83.3 | 114.6 | 145.1 |
| 170 | 145 | 6 | 150 | | | 100 | 30 | 3.1 | 3.7 | 4.7 | 7.6 | 11.9 | 17.7 | 26.0 | 38.5 | 57.9 | 86.3 | 127.2 | 171.5 | 213.4 |
| 180 | 155 | 8, 10 | 200, 250 | | | 100 | 30 | 3.3 | 4.0 | 5.1 | 8.2 | 12.7 | 19.0 | 27.8 | 41.2 | 61.8 | 92.3 | 135.9 | 187.0 | 236.8 |
| 240 | 205 | 6 | 150 | | | 125 | 30 | 5.1 | 5.8 | 7.2 | 11.9 | 18.7 | 28.2 | 40.0 | 57.7 | 83.9 | 118.9 | 162.4 | 216.3 | 246.9 |
| 270 | 230 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 4.9 | 5.9 | 7.5 | 12.1 | 18.9 | 28.1 | 41.3 | 61.1 | 91.8 | 136.9 | 201.7 | 277.5 | 351.4 |
| 360 | 305 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 6.4 | 7.9 | 10.0 | 16.1 | 25.0 | 37.3 | 54.8 | 81.0 | 121.7 | 181.5 | 264.4 | 367.9 | 465.6 |
| 420 | 360 | 8, 10 | 200, 250 | | | 200 | 60 | 6.9 | 8.4 | 10.4 | 16.5 | 25.4 | 37.7 | 56.4 | 83.9 | 123.5 | 192.6 | 307.1 | 413.9 | 478.3 |
| 560 | 480 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 11.8 | 14.2 | 18.5 | 29.5 | 46.1 | 69.6 | 103.2 | 157.9 | 253.7 | 364.5 | 480.4 | 556.3 | 602.6 |
| 1150 | 1000 | 12 | 300 | | | 250 | 120 | 15.96 | 19.13 | 24.83 | 43.3 | 71.8 | 110.0 | 164.9 | 248.8 | 367.7 | 545.9 | 830.1 | 1104.6 | 1257.7 |

**Table 3241.29:** *$C_V$ coefficients (gpm) for Type 3241 Globe Valve: perforated plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 5 | 4 | 1, 1½, 2 | 25, 32, 40, 50 | Perforated plug | Equal percentage | 24 | 15 | 0.033 | 0.087 | 0.13 | 0.21 | 0.30 | 0.45 | 0.67 | 1.00 | 1.5 | 2.1 | 3.2 | 4.8 | 6.3 |
| 7.5 | 6.3 | 1, 1½, 2, 2½, 3 | 25, 32, 40, 50, 65, 80 | | | 24 | 15 | 0.073 | 0.17 | 0.22 | 0.33 | 0.51 | 0.71 | 1.06 | 1.7 | 2.6 | 3.7 | 5.2 | 6.8 | 7.5 |
| 12 | 10 | 1, 1½, 2, 2½, 3 | 32, 40, 50, 65, 80 | | | 31 | 15 | 0.20 | 0.20 | 0.26 | 0.38 | 0.66 | 1.04 | 1.7 | 2.8 | 4.7 | 7.8 | 10.3 | 12.5 | 14.7 |
| 20 | 16 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.33 | 0.50 | 0.67 | 1.10 | 1.5 | 2.2 | 3.2 | 5.0 | 8.3 | 11.6 | 15.0 | 18.2 | 21.2 |
| 30 | 25 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.55 | 0.92 | 1.2 | 2.1 | 2.7 | 3.9 | 6.9 | 11.1 | 15.9 | 20.6 | 25.6 | 29.7 | 33.8 |
| 42 | 36 | 2½, 3 | 65, 80 | | | 63 | 15 | 0.42 | 1.06 | 1.4 | 2.1 | 3.4 | 5.4 | 9.0 | 14.2 | 20.5 | 28.1 | 35.6 | 41.6 | 46.2 |
| 47 | 40 | 3 | 80 | | | 80 | 15 | 0.46 | 1.3 | 1.8 | 2.6 | 4.2 | 6.1 | 8.9 | 13.2 | 19.2 | 27.5 | 37.2 | 46.3 | 54.1 |
| 62 | 54 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 63 | 30 | 0.62 | 1.11 | 1.3 | 1.8 | 3.6 | 5.6 | 9.5 | 17.1 | 27.5 | 40.1 | 53.5 | 63.1 | 68.7 |
| 75 | 63 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 80 | 30 | 0.73 | 3.7 | 6.0 | 13.1 | 22.9 | 33.7 | 45.7 | 55.3 | 62.8 | 68.5 | 72.8 | 76.1 | 78.7 |
| 95 | 80 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 80 | 30 | 0.92 | 1.4 | 1.5 | 3.0 | 4.7 | 10.1 | 23.8 | 42.7 | 59.9 | 74.9 | 88.2 | 99.4 | 107.1 |
| 120 | 100 | 4, 6, 8, 10, 12 | 100, 125, 150, 200, 250, 300 | | | 100 | 30 | 1.2 | 1.8 | 2.0 | 3.7 | 6.9 | 11.1 | 18.3 | 31.3 | 47.2 | 68.7 | 94.7 | 115.7 | 128.2 |
| 140 | 120 | 4 | 125 | | | 110 | 30 | 1.4 | 2.1 | 2.7 | 5.9 | 10.6 | 17.4 | 27.4 | 40.6 | 60.1 | 84.5 | 113.3 | 136.8 | 154.1 |
| 190 | 160 | 6 | 150 | | | 130 | 30 | 1.8 | 5.2 | 7.2 | 12.0 | 17.6 | 26.0 | 38.4 | 57.2 | 80.9 | 112.5 | 152.1 | 188.1 | 208.4 |
| 190 | 160 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 1.8 | 2.8 | 3.1 | 6.6 | 11.6 | 17.8 | 26.2 | 39.1 | 57.9 | 93.6 | 143.4 | 187.7 | 223.2 |
| 290 | 250 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 2.9 | 4.4 | 5.7 | 10.5 | 17.7 | 27.9 | 42.8 | 77.3 | 128.7 | 191.2 | 249.1 | 289.8 | 321.9 |
| 420 | 360 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 4.2 | 6.1 | 6.9 | 12.8 | 23.9 | 38.2 | 59.9 | 108.7 | 174.6 | 252.0 | 337.6 | 414.5 | 456.2 |
| 485 | 420 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 4.9 | 7.1 | 7.5 | 19.0 | 61.6 | 136.4 | 211.6 | 286.7 | 361.8 | 435.8 | 492.5 | 543.5 | 580.4 |
| 735 | 630 | 10, 12 | 250, 300 | | | 250 | 120 | 7.3 | 7.5 | 10.2 | 21.3 | 39.0 | 63.8 | 100.1 | 151.5 | 268.2 | 426.6 | 603.5 | 772.8 | 810.4 |
| 1150 | 1000 | 12 | 300 | | | 300 | 120 | 11.6 | 12.5 | 15.7 | 32.8 | 61.5 | 105.5 | 163.7 | 289.0 | 496.0 | 748.0 | 995.4 | 1180.2 | 1298.4 |

**Table 3241.30:** *CV coefficients (gpm) for Type 3241 Globe Valve: perforated plug without flow divider, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 5 | 4 | 1, 1½, 2 | 25, 32, 40, 50 | Perforated plug | Linear | 24 | 15 | 0.046 | 0.29 | 0.48 | 0.91 | 1.4 | 1.9 | 2.4 | 3.0 | 3.7 | 4.4 | 5.3 | 6.3 | 7.3 |
| 7.5 | 6.3 | 1, 1½, 2, 2½, 3 | 25, 32, 40, 50, 65, 80 | | | 24 | 15 | 0.085 | 0.50 | 0.85 | 1.5 | 2.3 | 3.0 | 3.7 | 4.4 | 5.2 | 6.0 | 6.7 | 7.5 | 8.3 |
| 12 | 10 | 1, 1½, 2, 2½, 3 | 32, 40, 50, 65, 80 | | | 31 | 15 | 0.12 | 0.61 | 1.10 | 2.0 | 3.0 | 4.2 | 5.5 | 6.9 | 8.2 | 9.7 | 11.3 | 12.9 | 14.1 |
| 20 | 16 | 1, 1½, 2, 2½, 3 | 32, 40, 50, 65, 80 | | | 31 | 15 | 0.33 | 1.7 | 3.1 | 5.4 | 7.8 | 10.2 | 12.5 | 14.3 | 15.7 | 16.8 | 17.6 | 18.2 | 18.5 |
| 30 | 25 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.007 | 1.3 | 2.9 | 6.8 | 10.5 | 14.3 | 17.5 | 20.8 | 23.2 | 25.4 | 27.0 | 27.7 | 28.4 |
| 42 | 36 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.74 | 1.3 | 3.0 | 7.6 | 11.9 | 16.3 | 20.6 | 25.1 | 29.4 | 33.6 | 36.9 | 39.4 | 41.6 |
| 55 | 47 | 2½, 3 | 65, 80 | | | 63 | 15 | 0.91 | 4.3 | 7.4 | 13.8 | 19.9 | 26.5 | 33.0 | 38.9 | 44.3 | 48.9 | 52.9 | 56.1 | 58.7 |
| 70 | 60 | 3 | 80 | | | 80 | 15 | 0.69 | 4.3 | 7.9 | 15.3 | 22.7 | 30.6 | 39.0 | 46.5 | 54.1 | 61.5 | 68.0 | 74.3 | 79.3 |
| 75 | 63 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 63 | 30 | 0.73 | 3.7 | 6.5 | 13.8 | 23.5 | 34.3 | 45.7 | 55.3 | 62.8 | 68.5 | 72.8 | 76.1 | 78.7 |
| 120 | 100 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 80 | 30 | 1.2 | 8.0 | 15.7 | 32.5 | 48.1 | 62.7 | 76.2 | 87.9 | 97.4 | 103.8 | 108.9 | 113.1 | 116.4 |
| 160 | 130 | 4, 6, 8, 10, 12 | 100, 125, 150, 200, 250, 300 | | | 100 | 30 | 0.62 | 6.4 | 14.0 | 31.3 | 49.2 | 67.0 | 84.5 | 100.2 | 114.7 | 127.1 | 136.9 | 145.2 | 152.6 |
| 190 | 160 | 4 | 125 | | | 110 | 30 | 1.8 | 12.8 | 23.5 | 44.7 | 66.2 | 88.8 | 110.2 | 128.8 | 146.0 | 161.4 | 173.4 | 185.2 | 194.4 |
| 245 | 210 | 6 | 150 | | | 130 | 30 | 2.4 | 16.2 | 28.6 | 56.1 | 83.8 | 112.7 | 140.6 | 165.2 | 188.6 | 209.6 | 228.2 | 245.3 | 259.8 |
| 290 | 250 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 2.8 | 15.0 | 30.0 | 66.6 | 105.4 | 147.6 | 185.8 | 221.7 | 252.5 | 277.0 | 296.3 | 310.2 | 320.3 |
| 375 | 320 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 3.7 | 19.1 | 36.7 | 77.7 | 122.3 | 174.3 | 225.1 | 270.4 | 305.5 | 328.3 | 341.0 | 344.4 | 346.8 |
| 580 | 500 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 8.7 | 20.8 | 49.7 | 125.2 | 196.6 | 271.0 | 342.5 | 404.0 | 459.0 | 507.6 | 547.5 | 577.7 | 601.2 |
| 1040 | 900 | 10, 12 | 250, 300 | | | 250 | 120 | 10.4 | 52.0 | 106.0 | 227.7 | 363.0 | 515.6 | 659.0 | 790.8 | 896.0 | 975.7 | 1019.7 | 1043.5 | 1065.8 |
| 1500 | 1300 | 12 | 300 | | | 300 | 120 | 15.0 | 138.9 | 257.8 | 474.0 | 677.5 | 891.3 | 1084.4 | 1252.0 | 1371.1 | 1468.2 | 1526.0 | 1563.2 | 1563.4 |

**Table 3241.31:** *$C_V$ coefficients (gpm) for Type 3241 Globe Valve: perforated plug with flow divider ST 1, with eq. percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 4.2 | 3.6 | 1, 1½, 2 | 32, 40, 50 | Perforated plug and ST 1 | Equal percentage | 24 | 15 | 0.033 | 0.087 | 0.13 | 0.21 | 0.30 | 0.45 | 0.67 | 1.00 | 1.4 | 2.1 | 3.1 | 4.5 | 5.9 |
| 7 | 5.7 | 1, 1½, 2 | 32, 40, 50 | | | 24 | 15 | 0.073 | 0.17 | 0.22 | 0.33 | 0.51 | 0.71 | 1.06 | 1.7 | 2.5 | 3.6 | 5.0 | 6.4 | 7.1 |
| 10.5 | 9 | 1, 1½, 2 | 32, 40, 50 | | | 31 | 15 | 0.20 | 0.20 | 0.26 | 0.38 | 0.66 | 1.04 | 1.7 | 2.8 | 4.7 | 7.7 | 10.1 | 12.2 | 14.4 |
| 17 | 14.5 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.33 | 0.50 | 0.67 | 1.10 | 1.5 | 2.2 | 3.2 | 5.0 | 8.2 | 11.2 | 14.5 | 17.3 | 20.0 |
| 26 | 22 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.55 | 0.92 | 1.2 | 2.1 | 2.7 | 3.9 | 6.9 | 11.1 | 15.4 | 19.3 | 23.3 | 26.1 | 29.4 |
| 37 | 32 | 2½, 3 | 65, 80 | | | 63 | 15 | 0.42 | 1.06 | 1.3 | 1.9 | 3.1 | 4.9 | 8.2 | 12.9 | 18.6 | 25.6 | 32.4 | 37.9 | 42.1 |
| 42 | 36 | 3 | 80 | | | 80 | 15 | 0.46 | 1.3 | 1.8 | 2.6 | 4.2 | 6.1 | 8.9 | 13.2 | 18.7 | 26.2 | 34.7 | 42.1 | 48.7 |
| 55 | 47 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 63 | 30 | 0.62 | 1.11 | 1.3 | 1.8 | 3.6 | 5.6 | 9.5 | 17.1 | 26.8 | 38.1 | 49.9 | 57.4 | 61.9 |
| 67 | 57 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 80 | 30 | 0.73 | 1.3 | 1.7 | 3.0 | 4.7 | 7.0 | 10.3 | 17.5 | 27.5 | 42.0 | 55.9 | 67.1 | 75.1 |
| 85 | 72 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 80 | 30 | 0.92 | 1.4 | 1.5 | 3.0 | 4.7 | 10.1 | 23.8 | 42.7 | 58.1 | 70.8 | 81.6 | 89.5 | 95.3 |
| 105 | 90 | 4, 6, 8, 10, 12 | 100, 125, 150, 200, 250, 300 | | | 100 | 30 | 1.2 | 1.8 | 2.0 | 3.7 | 6.9 | 11.1 | 18.3 | 31.3 | 45.5 | 64.1 | 86.2 | 101.8 | 111.3 |
| 120 | 100 | 4 | 125 | | | 110 | 30 | 1.4 | 2.1 | 2.7 | 5.9 | 10.6 | 17.4 | 27.4 | 40.6 | 58.3 | 79.9 | 104.8 | 123.1 | 137.2 |
| 170 | 144 | 6 | 150 | | | 130 | 30 | 1.8 | 5.2 | 7.2 | 12.0 | 17.6 | 26.0 | 38.4 | 57.2 | 78.5 | 106.3 | 140.7 | 169.3 | 185.5 |
| 170 | 144 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 1.8 | 2.8 | 3.1 | 6.6 | 11.6 | 17.8 | 26.2 | 39.1 | 56.2 | 88.4 | 132.7 | 168.9 | 198.7 |
| 265 | 225 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 2.9 | 4.4 | 5.7 | 10.5 | 17.7 | 27.9 | 42.8 | 77.3 | 125.6 | 182.8 | 234.2 | 266.6 | 293.6 |
| 375 | 320 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 4.2 | 6.1 | 6.9 | 12.8 | 23.9 | 38.2 | 59.9 | 108.7 | 170.1 | 240.2 | 316.1 | 379.3 | 413.5 |
| 435 | 375 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 4.9 | 7.1 | 7.5 | 19.0 | 61.6 | 136.4 | 211.6 | 286.7 | 352.6 | 415.5 | 461.1 | 497.3 | 526.1 |
| 650 | 560 | 10, 12 | 250, 300 | | | 250 | 120 | 7.3 | 7.5 | 10.2 | 21.3 | 39.0 | 63.8 | 100.1 | 151.5 | 261.0 | 405.5 | 562.7 | 703.3 | 730.2 |
| 1040 | 900 | 12 | 300 | | | 300 | 120 | 11.6 | 12.5 | 15.7 | 32.8 | 61.5 | 105.5 | 163.7 | 289.0 | 480.3 | 704.8 | 917.0 | 1056.2 | 1148.4 |

**Table 3241.32:** *CV coefficients (gpm) for Type 3241 Globe Valve: perforated plug with flow divider ST 1, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 4.2 | 3.6 | 1, 1½, 2 | 32, 40, 50 | Perforated plug and ST 1 | Linear | 24 | 15 | 0.046 | 0.29 | 0.47 | 0.86 | 1.3 | 1.8 | 2.3 | 2.9 | 3.5 | 4.2 | 5.0 | 6.0 | 6.9 |
| 7 | 5.7 | 1, 1½, 2 | 32, 40, 50 | | | 24 | 15 | 0.085 | 0.50 | 0.84 | 1.5 | 2.2 | 3.0 | 3.7 | 4.4 | 5.1 | 5.9 | 6.7 | 7.4 | 8.2 |
| 10.5 | 9 | 1, 1½, 2 | 32, 40, 50 | | | 31 | 15 | 0.12 | 0.61 | 1.09 | 2.0 | 3.0 | 4.2 | 5.5 | 6.8 | 8.2 | 9.6 | 11.2 | 12.8 | 13.9 |
| 17 | 14.5 | 1, 1½, 2 | 32, 40, 50 | | | 31 | 15 | 0.33 | 1.73 | 2.9 | 5.1 | 7.3 | 9.5 | 11.6 | 13.3 | 14.6 | 15.6 | 16.4 | 16.9 | 17.2 |
| 26 | 22 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.007 | 1.3 | 2.8 | 6.4 | 9.8 | 13.3 | 16.3 | 19.3 | 21.6 | 23.6 | 25.1 | 25.8 | 26.4 |
| 37 | 32 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.74 | 1.3 | 2.9 | 7.1 | 11.2 | 15.4 | 19.4 | 23.6 | 27.6 | 31.6 | 34.7 | 37.0 | 39.1 |
| 50 | 43 | 2½, 3 | 65, 80 | | | 63 | 15 | 0.91 | 4.3 | 7.1 | 13.0 | 18.7 | 24.9 | 31.0 | 36.5 | 41.6 | 46.0 | 49.7 | 52.7 | 55.1 |
| 62 | 54 | 3 | 80 | | | 80 | 15 | 0.69 | 4.3 | 7.2 | 13.3 | 19.7 | 26.7 | 33.9 | 40.5 | 47.0 | 53.5 | 59.1 | 64.7 | 69.0 |
| 67 | 57 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 63 | 30 | 0.73 | 3.7 | 6.2 | 12.9 | 22.1 | 32.3 | 42.9 | 52.0 | 59.0 | 64.4 | 68.4 | 71.5 | 73.9 |
| 105 | 90 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 80 | 30 | 1.2 | 8.0 | 14.6 | 28.6 | 42.3 | 55.1 | 67.0 | 77.3 | 85.7 | 91.4 | 95.9 | 99.5 | 102.4 |
| 135 | 115 | 4, 6, 8, 10, 12 | 100, 125, 150, 200, 250, 300 | | | 100 | 30 | 0.62 | 6.4 | 13.0 | 27.6 | 43.3 | 59.0 | 74.4 | 88.2 | 100.9 | 111.8 | 120.5 | 127.8 | 134.3 |
| 170 | 144 | 4 | 125 | | | 110 | 30 | 1.8 | 12.8 | 21.8 | 39.4 | 58.3 | 78.1 | 97.0 | 113.3 | 128.4 | 142.0 | 152.6 | 163.0 | 171.1 |
| 220 | 190 | 6 | 150 | | | 130 | 30 | 2.4 | 16.2 | 26.6 | 49.3 | 73.7 | 99.1 | 123.7 | 145.4 | 165.9 | 184.5 | 200.8 | 215.9 | 228.6 |
| 265 | 225 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 2.8 | 15.0 | 28.5 | 61.3 | 97.0 | 135.8 | 170.9 | 204.0 | 232.3 | 254.8 | 272.6 | 285.4 | 294.7 |
| 325 | 280 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 3.7 | 19.1 | 34.3 | 69.1 | 108.9 | 155.2 | 200.3 | 240.7 | 271.9 | 292.2 | 303.5 | 306.5 | 308.7 |
| 520 | 450 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 8.7 | 20.8 | 47.0 | 113.9 | 178.9 | 246.6 | 311.7 | 367.6 | 417.7 | 461.9 | 498.2 | 525.7 | 547.1 |
| 950 | 800 | 10, 12 | 250, 300 | | | 250 | 120 | 10.4 | 52.0 | 99.6 | 205.0 | 326.7 | 464.0 | 593.1 | 711.7 | 806.4 | 878.2 | 917.8 | 939.1 | 959.2 |
| 1350 | 1150 | 12 | 300 | | | 300 | 120 | 15.0 | 138.9 | 242.3 | 426.6 | 609.7 | 802.2 | 976.0 | 1126.8 | 1234.0 | 1321.4 | 1373.4 | 1406.9 | 1407.0 |

**Table 3241.33:** *$C_V$ coefficients (gpm) for Type 3241 Globe Valve: perforated plug with flow divider ST 2, with eq. percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 9.5 | 8 | 1, 1½, 2 | 32, 40, 50 | Perforated plug and ST 2 | Equal percentage | 31 | 15 | 0.20 | 0.20 | 0.26 | 0.38 | 0.66 | 1.04 | 1.7 | 2.8 | 4.7 | 7.7 | 10.0 | 12.1 | 14.3 |
| 15 | 13 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.33 | 0.50 | 0.67 | 1.10 | 1.5 | 2.2 | 3.2 | 5.0 | 8.2 | 11.2 | 14.3 | 17.2 | 19.8 |
| 23 | 20 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.55 | 0.92 | 1.2 | 2.1 | 2.7 | 3.9 | 6.9 | 11.0 | 15.4 | 19.0 | 22.5 | 24.9 | 27.6 |
| 34 | 29 | 2½, 3 | 65, 80 | | | 63 | 15 | 0.42 | 1.06 | 1.3 | 1.9 | 3.0 | 4.7 | 7.9 | 12.5 | 18.0 | 24.7 | 31.3 | 36.6 | 40.7 |
| 37 | 32 | 3 | 80 | | | 80 | 15 | 0.46 | 1.3 | 1.8 | 2.6 | 4.2 | 6.1 | 8.9 | 13.2 | 18.6 | 26.0 | 34.4 | 41.6 | 48.1 |
| 50 | 43 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 63 | 30 | 0.62 | 1.111 | 1.3 | 1.8 | 3.6 | 5.6 | 9.5 | 17.1 | 26.5 | 37.5 | 48.7 | 55.5 | 59.6 |
| 60 | 50 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 80 | 15 | 0.73 | 1.3 | 1.7 | 3.0 | 4.7 | 7.0 | 10.3 | 17.5 | 27.1 | 40.7 | 53.6 | 63.3 | 70.4 |
| 75 | 63 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 80 | 30 | 0.92 | 1.4 | 1.5 | 3.0 | 4.7 | 10.1 | 23.8 | 42.7 | 57.4 | 69.1 | 78.9 | 85.5 | 90.6 |
| 95 | 80 | 4, 6, 8, 10, 12 | 100, 125, 150, 200, 250, 300 | | | 100 | 30 | 1.2 | 1.8 | 2.0 | 3.7 | 6.9 | 11.1 | 18.3 | 30.8 | 45.5 | 62.5 | 81.9 | 94.9 | 101.7 |
| 110 | 95 | 4 | 125 | | | 110 | 30 | 1.4 | 2.1 | 2.7 | 5.9 | 10.6 | 17.4 | 27.4 | 39.8 | 58.0 | 76.9 | 98.0 | 112.2 | 122.2 |
| 145 | 125 | 6 | 150 | | | 130 | 30 | 1.8 | 5.2 | 7.2 | 12.0 | 17.6 | 26.0 | 38.4 | 56.2 | 78.0 | 102.4 | 131.6 | 154.3 | 165.2 |
| 145 | 125 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 1.8 | 2.8 | 3.1 | 6.6 | 11.6 | 17.8 | 26.2 | 38.4 | 55.8 | 85.1 | 124.1 | 153.9 | 177.0 |
| 235 | 200 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 2.9 | 4.4 | 5.7 | 10.5 | 17.7 | 27.9 | 42.8 | 76.1 | 124.6 | 175.9 | 219.2 | 243.4 | 262.7 |
| 335 | 290 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 4.2 | 6.1 | 6.9 | 12.8 | 23.9 | 38.2 | 59.9 | 106.8 | 168.6 | 230.6 | 294.5 | 344.0 | 367.0 |
| 390 | 340 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 4.9 | 7.1 | 7.5 | 19.0 | 61.6 | 136.4 | 211.6 | 281.8 | 349.5 | 398.8 | 429.7 | 451.1 | 466.9 |
| 580 | 500 | 10, 12 | 250, 300 | | | 250 | 120 | 7.3 | 7.5 | 10.2 | 21.3 | 39.0 | 63.8 | 100.1 | 151.5 | 256.5 | 392.6 | 537.8 | 660.8 | 681.1 |
| 950 | 800 | 12 | 300 | | | 300 | 120 | 11.6 | 12.5 | 15.7 | 32.8 | 61.5 | 105.5 | 163.7 | 284.7 | 481.1 | 691.9 | 883.4 | 1003.1 | 1074.4 |

**Table 3241.34:** *CV coefficients (gpm) for Type 3241 Globe Valve: perforated plug with flow divider ST 2, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 9.5 | 8 | 1, 1½, 2 | 32, 40, 50 | Perforated plug and ST 2 | Linear | 31 | 15 | 0.12 | 0.61 | 1.09 | 2.0 | 3.0 | 4.1 | 5.4 | 6.7 | 8.1 | 9.5 | 11.1 | 12.7 | 13.8 |
| 15 | 13 | 1, 1½, 2 | 32, 40, 50 | | | 31 | 15 | 0.33 | 1.7 | 2.9 | 5.0 | 7.1 | 9.3 | 11.4 | 13.0 | 14.2 | 15.2 | 16.0 | 16.5 | 16.8 |
| 23 | 20 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.007 | 1.3 | 2.7 | 6.3 | 9.7 | 13.1 | 16.1 | 19.1 | 21.4 | 23.4 | 24.8 | 25.5 | 26.2 |
| 34 | 29 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.74 | 1.3 | 2.9 | 7.0 | 11.0 | 15.2 | 19.2 | 23.3 | 27.3 | 31.2 | 34.3 | 36.6 | 38.7 |
| 45 | 38 | 2½, 3 | 65, 80 | | | 63 | 15 | 0.91 | 4.3 | 7.1 | 12.8 | 18.5 | 24.6 | 30.7 | 36.1 | 41.2 | 45.5 | 49.2 | 52.2 | 54.6 |
| 56 | 48 | 3 | 80 | | | 80 | 15 | 0.69 | 4.3 | 7.1 | 12.8 | 19.0 | 25.7 | 32.7 | 39.1 | 45.4 | 51.7 | 57.1 | 62.4 | 66.6 |
| 60 | 50 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 63 | 30 | 0.73 | 3.7 | 6.2 | 12.8 | 21.8 | 31.9 | 42.5 | 51.5 | 58.4 | 63.7 | 67.7 | 70.8 | 73.2 |
| 95 | 80 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 80 | 30 | 1.2 | 8.0 | 14.2 | 27.3 | 40.4 | 52.6 | 64.0 | 73.8 | 81.8 | 87.2 | 91.5 | 95.0 | 97.8 |
| 120 | 105 | 4, 6, 8, 10, 12 | 100, 125, 150, 200, 150, 300 | | | 100 | 30 | 0.62 | 6.4 | 12.7 | 26.3 | 41.4 | 56.3 | 71.0 | 84.2 | 96.3 | 106.7 | 115.0 | 122.0 | 128.2 |
| 145 | 125 | 4 | 125 | | | 110 | 30 | 1.8 | 12.8 | 21.2 | 37.6 | 55.6 | 74.6 | 92.6 | 108.2 | 122.6 | 135.6 | 145.6 | 155.6 | 163.3 |
| 200 | 170 | 6 | 150 | | | 130 | 30 | 2.4 | 16.2 | 25.6 | 46.0 | 68.7 | 92.4 | 115.3 | 135.4 | 154.6 | 171.9 | 187.1 | 201.2 | 213.0 |
| 235 | 200 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 2.8 | 15.0 | 27.1 | 55.9 | 88.6 | 124.0 | 156.1 | 186.3 | 212.1 | 232.7 | 248.9 | 260.5 | 269.1 |
| 295 | 255 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 3.7 | 19.1 | 32.8 | 63.7 | 100.3 | 143.0 | 184.6 | 221.7 | 250.6 | 269.2 | 279.7 | 282.4 | 284.4 |
| 465 | 400 | 8, 10, 12 | 200, 250, 300 | | | 200 | 60 | 8.7 | 20.8 | 45.5 | 107.7 | 169.1 | 233.1 | 294.6 | 347.4 | 394.7 | 436.6 | 470.9 | 496.8 | 517.0 |
| 835 | 720 | 10, 12 | 250, 300 | | | 250 | 120 | 10.4 | 52.0 | 97.1 | 195.9 | 312.2 | 443.4 | 566.7 | 680.0 | 770.5 | 839.1 | 877.0 | 897.4 | 916.6 |
| 1200 | 1040 | 12 | 300 | | | 300 | 120 | 15.0 | 138.9 | 230.0 | 388.7 | 555.5 | 730.9 | 889.2 | 1026.7 | 1124.3 | 1203.9 | 1251.3 | 1281.9 | 1282.0 |

**Table 3241.35:** *$C_V$ coefficients (gpm) for Type 3241 Globe Valve: perforated plug with flow divider ST 3, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 5.6 | 4.8 | 1, 1½, 2, 2½, 3 | 32, 40, 50, 65, 80 | Perforated plug and ST 3 | Equal percentage | 24 | 15 | 0.073 | 0.17 | 0.22 | 0.33 | 0.51 | 0.71 | 1.06 | 1.7 | 2.5 | 3.6 | 5.0 | 6.4 | 7.1 |
| 9 | 7.5 | 2½, 3 | 65, 80 | | | 31 | 15 | 0.20 | 0.20 | 0.26 | 0.38 | 0.66 | 1.04 | 1.7 | 2.8 | 4.6 | 7.6 | 9.9 | 11.8 | 13.9 |
| 14 | 12 | 2½, 3 | 65, 80 | | | 38 | 15 | 0.33 | 0.50 | 0.67 | 1.10 | 1.5 | 2.2 | 3.2 | 5.0 | 8.1 | 11.1 | 14.1 | 16.8 | 19.3 |
| 23 | 20 | 2½, 3 | 65, 80 | | | 48 | 15 | 0.55 | 0.92 | 1.2 | 2.1 | 2.7 | 3.9 | 6.9 | 10.9 | 15.4 | 18.8 | 22.1 | 24.3 | 26.8 |
| 47 | 40 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 63 | 30 | 0.62 | 1.11 | 1.3 | 1.8 | 3.6 | 5.6 | 9.5 | 17.1 | 26.4 | 37.0 | 47.9 | 54.2 | 58.1 |
| 55 | 47 | 4, 6, 8, 10 | 125, 150, 200, 250 | | | 80 | 30 | 0.73 | 1.3 | 1.7 | 3.0 | 4.7 | 7.0 | 10.3 | 17.2 | 27.4 | 40.6 | 52.7 | 61.9 | 67.9 |
| 70 | 60 | 4, 6, 8, 10 | 125, 150, 200, 250 | | | 80 | 30 | 0.92 | 1.4 | 1.5 | 3.0 | 4.7 | 10.1 | 23.8 | 42.0 | 57.9 | 68.7 | 77.3 | 83.0 | 86.8 |
| 90 | 75 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 100 | 30 | 1.2 | 1.8 | 2.0 | 3.7 | 6.9 | 11.1 | 18.3 | 30.7 | 45.3 | 61.8 | 80.5 | 92.6 | 98.7 |
| 140 | 120 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 1.8 | 5.2 | 7.2 | 12.0 | 17.6 | 26.0 | 38.4 | 56.0 | 77.5 | 100.7 | 128.2 | 148.6 | 158.1 |
| 220 | 190 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 2.9 | 4.4 | 5.7 | 10.5 | 17.7 | 27.9 | 42.8 | 75.9 | 124.0 | 174.0 | 215.5 | 237.6 | 255.3 |
| 315 | 270 | 10, 12 | 250, 300 | | | 200 | 60 | 4.2 | 6.1 | 6.9 | 12.8 | 23.9 | 38.2 | 59.9 | 106.3 | 167.1 | 224.9 | 283.1 | 325.4 | 343.4 |
| 365 | 315 | 10, 12 | 250, 300 | | | 200 | 60 | 4.9 | 7.1 | 7.5 | 19.0 | 61.6 | 136.4 | 211.6 | 280.5 | 346.3 | 389.0 | 413.1 | 426.6 | 436.9 |
| 560 | 480 | 12 | 300 | | | 250 | 120 | 7.3 | 7.5 | 10.2 | 21.3 | 39.0 | 63.8 | 100.1 | 149.1 | 259.9 | 393.5 | 533.3 | 653.1 | 666.0 |

**Table 3241.36:** *CV coefficients (gpm) for Type 3241 Globe Valve: perforated plug with flow divider ST 3, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 5.6 | 4.8 | 1, 1½, 2, 2½, 3 | 32, 40, 50, 65, 80 | Perforated plug and ST 3 | Linear | 24 | 15 | 0.085 | 0.50 | 0.83 | 1.5 | 2.2 | 2.9 | 3.6 | 4.3 | 5.0 | 5.8 | 6.5 | 7.3 | 8.0 |
| 9 | 7.5 | 2½, 3 | 65, 80 | | | 31 | 15 | 0.12 | 0.61 | 1.08 | 2.0 | 2.9 | 4.1 | 5.4 | 6.7 | 8.0 | 9.4 | 11.0 | 12.6 | 13.6 |
| 14 | 12 | 2½, 3 | 65, 80 | | | 31 | 15 | 0.33 | 1.7 | 2.9 | 5.0 | 7.1 | 9.3 | 11.4 | 13.0 | 14.2 | 15.2 | 16.0 | 16.5 | 16.8 |
| 23 | 20 | 2½, 3 | 65, 80 | | | 38 | 15 | 0.007 | 1.3 | 2.7 | 6.2 | 9.6 | 13.0 | 16.0 | 18.9 | 21.1 | 23.1 | 24.6 | 25.2 | 25.9 |
| 31 | 27 | 2½, 3 | 65, 80 | | | 48 | 15 | 0.74 | 1.3 | 2.9 | 7.0 | 10.9 | 15.0 | 19.0 | 23.1 | 27.0 | 30.9 | 33.9 | 36.2 | 38.3 |
| 55 | 47 | 4, 6, 8, 10 | 100, 125, 150, 200, 250 | | | 63 | 30 | 0.73 | 3.7 | 6.2 | 12.7 | 21.6 | 31.6 | 42.0 | 50.9 | 57.8 | 63.0 | 67.0 | 70.0 | 72.4 |
| 90 | 75 | 6, 8, 10 | 125, 150, 200, 250 | | | 80 | 30 | 1.2 | 8.0 | 14.0 | 26.6 | 39.4 | 51.4 | 62.5 | 72.0 | 79.9 | 85.1 | 89.3 | 92.7 | 95.4 |
| 100 | 80 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 100 | 30 | 0.6 | 6.4 | 12.5 | 25.7 | 40.4 | 54.9 | 69.3 | 82.2 | 94.0 | 104.2 | 112.3 | 119.1 | 125.1 |
| 220 | 190 | 8, 10, 12 | 200, 250, 300 | | | 125 | 60 | 2.8 | 15.0 | 26.7 | 54.6 | 86.5 | 121.1 | 152.3 | 181.8 | 207.0 | 227.1 | 243.0 | 254.3 | 262.7 |
| 270 | 230 | 8, 10, 12 | 200, 250, 300 | | | 150 | 60 | 3.7 | 19.1 | 32.1 | 61.4 | 96.6 | 137.7 | 177.8 | 213.6 | 241.4 | 259.4 | 269.4 | 272.1 | 274.0 |
| 435 | 375 | 10, 12 | 250, 300 | | | 200 | 60 | 8.7 | 20.8 | 45.2 | 106.4 | 167.1 | 230.4 | 291.2 | 343.4 | 390.1 | 431.5 | 465.4 | 491.1 | 511.0 |
| 780 | 675 | 12 | 300 | | | 250 | 120 | 10.4 | 52.0 | 96.4 | 193.6 | 308.6 | 438.3 | 560.1 | 672.1 | 761.6 | 829.4 | 866.8 | 886.9 | 905.9 |

**Table 3241.37:** *$C_V$ coefficients (gpm) for Type 3241 Globe Valve: without valve trim, with cast body*

| Seat Ø [mm] | Flow coefficient ($C_V$) without valve trim | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NPS ½ | NPS ¾ | NPS 1 | NPS 1½ | NPS 2 | NPS 2½ | NPS 3 | NPS 4 | NPS 6 | NPS 8 | NPS 10 | NPS 12 |
| 3 | 0.39 | 0.39 | 0.39 | – | – | – | – | – | – | – | – | – |
| 6 | 1.45 | 1.45 | 1.5 | 1.55 | 1.55 | – | – | – | – | – | – | – |
| 12 | 5.1 | 5.2 | 5.3 | 5.4 | 5.5 | – | – | – | – | – | – | – |
| 24 | – | 10 | 15 | 23 | 25 | – | – | – | – | – | – | – |
| 31 | – | – | – | 33.5 | 37 | – | – | – | – | – | – | – |
| 38 | – | – | – | 38 | 53 | 57 | 62 | – | – | – | – | – |
| 48 | – | – | – | – | 58 | 83 | 94 | – | – | – | – | – |
| 63 | – | – | – | – | – | 97 | 111 | 147 | 157 | – | – | – |
| 80 | – | – | – | – | – | – | 145 | 191 | 246 | – | – | – |
| 100 | – | – | – | – | – | – | – | 216 | 360 | – | – | – |
| 110 | – | – | – | – | – | – | – | – | – | – | – | – |
| 125 | – | – | – | – | – | – | – | – | – | 578 | 585 | 592 |
| 130 | – | – | – | – | – | – | – | – | 481 | – | – | – |
| 150 | – | – | – | – | – | – | – | – | – | 756 | 813 | 826 |
| 200 | – | – | – | – | – | – | – | – | – | 810 | 1200 | 1390 |
| 250 | – | – | – | – | – | – | – | – | – | – | 1330 | 1790 |
| 300 | – | – | – | – | – | – | – | – | – | – | – | 1930 |

**Table 3241.38:** *$C_V$ coefficients (gpm) for Type 3241 Globe Valve: without valve trim, with forged body*

| Seat Ø [mm] | Flow coefficient ($C_V$) without valve trim | | | | | | |
|---|---|---|---|---|---|---|---|
| | NPS ½ | NPS ¾ | NPS 1 | NPS 1½ | NPS 2 | NPS 2½ | NPS 3 |
| 3 | 0.39 | 0.39 | 0.39 | – | – | – | – |
| 6 | 1.45 | 1.45 | 1.5 | 1.55 | 1.55 | – | – |
| 12 | 5.1 | 5.2 | 5.3 | 5.4 | 5.5 | – | – |
| 24 | – | 9.7 | 14.9 | 18.6 | 20.5 | – | – |
| 31 | – | – | – | 31 | 33.5 | – | – |
| 38 | – | – | – | 37 | 49 | 50 | 51 |
| 48 | – | – | – | – | 56 | 67 | 73 |
| 63 | – | – | – | – | – | 95 | 110 |
| 80 | – | – | – | – | – | – | 121 |

# T 8000-3 EN · Section on Type 3248

# Type 3248 Cryogenic Valve

**$K_V$ coefficients (m³/h) for Type 3248 Cryogenic Valve**

**Standard plug**

Without flow divider

With equal percentage characteristic ..... Table 3248.1

With linear characteristic ..... Table 3248.2

**Perforated plug**

Without flow divider

With equal percentage characteristic ..... Table 3248.3

With linear characteristic ..... Table 3248.4

**Without valve trim**

With cast body ..... Table 3248.5

**$C_V$ coefficients (gpm) for Type 3248 Cryogenic Valve**

**Standard plug**

Without flow divider

With equal percentage characteristic ..... Table 3248.6

With linear characteristic ..... Table 3248.7

**Perforated plug**

Without flow divider

With equal percentage characteristic ..... Table 3248.8

With linear characteristic ..... Table 3248.9

**Without valve trim**

With cast body ..... Table 3248.10

**Table 3248.1:** *KV coefficients ($m^3/h$) for Type 3248 Globe Valve: standard plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.1 | 0.12 | 15, 20, 25 | ½, ¾, 1 | Without | Equal percentage | 3 | 15 | 0.0017 | 0.0024 | 0.0030 | 0.0043 | 0.0060 | 0.0084 | 0.0130 | 0.0192 | 0.0269 | 0.0418 | 0.0643 | 0.0985 | 0.150 |
| 0.16 | 0.2 | 15, 20, 25 | ½, ¾, 1 | | | 3 | 15 | 0.0019 | 0.0024 | 0.0032 | 0.0048 | 0.0071 | 0.0116 | 0.018 | 0.027 | 0.040 | 0.058 | 0.093 | 0.172 | 0.267 |
| 0.25 | 0.3 | 15, 20, 25 | ½, ¾, 1 | | | 3 | 15 | 0.0038 | 0.0044 | 0.0054 | 0.0082 | 0.0136 | 0.0210 | 0.0318 | 0.0482 | 0.0766 | 0.119 | 0.185 | 0.274 | 0.315 |
| 0.4 | 0.5 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1½, 2 | | | 6 | 15 | 0.008 | 0.009 | 0.011 | 0.019 | 0.029 | 0.044 | 0.064 | 0.093 | 0.131 | 0.191 | 0.284 | 0.436 | 0.753 |
| 0.63 | 0.75 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1½, 2 | | | 6 | 15 | 0.013 | 0.019 | 0.024 | 0.036 | 0.053 | 0.072 | 0.103 | 0.143 | 0.213 | 0.315 | 0.461 | 0.676 | 1.0 |
| 1 | 1.2 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1½, 2 | | | 6 | 15 | 0.019 | 0.025 | 0.031 | 0.044 | 0.066 | 0.097 | 0.149 | 0.226 | 0.338 | 0.495 | 0.738 | 1.10 | 1.27 |
| 1.6 | 2 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1½, 2 | | | 12 | 15 | 0.0240 | 0.0328 | 0.0410 | 0.0627 | 0.096 | 0.147 | 0.221 | 0.339 | 0.515 | 0.779 | 1.16 | 1.71 | 2.59 |
| 2.5 | 3 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1½, 2 | | | 12 | 15 | 0.034 | 0.046 | 0.060 | 0.098 | 0.153 | 0.239 | 0.364 | 0.554 | 0.841 | 1.24 | 1.81 | 2.77 | 3.72 |
| 4 | 5 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1½, 2 | | | 12 | 15 | 0.082 | 0.096 | 0.118 | 0.177 | 0.267 | 0.382 | 0.564 | 0.872 | 1.39 | 2.37 | 3.53 | 4.19 | 4.5 |
| 6.3 | 7.5 | 20, 25, 32, 40, 50 | ¾, 1, 1½, 2 | | | 24 | 15 | 0.14 | 0.17 | 0.21 | 0.30 | 0.42 | 0.63 | 0.95 | 1.35 | 2.00 | 2.94 | 4.34 | 6.65 | 9.1 |
| 10 | 12 | 25, 32, 40, 50 | 1, 1½, 2 | | | 24 | 15 | 0.13 | 0.23 | 0.29 | 0.47 | 0.70 | 1.02 | 1.46 | 2.10 | 3.05 | 4.7 | 8.1 | 10.5 | 12.3 |
| 16 | 20 | 32, 40, 50 | 1½, 2 | | | 31 | 15 | 0.35 | 0.44 | 0.53 | 0.78 | 1.19 | 1.79 | 2.6 | 3.8 | 5.6 | 8.5 | 12.4 | 16.1 | 18.3 |
| 25 | 30 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.52 | 0.65 | 0.80 | 1.14 | 1.72 | 2.6 | 4.1 | 6.8 | 10.4 | 14.9 | 19.5 | 23.8 | 26.7 |
| 40 | 47 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0.75 | 0.81 | 0.99 | 2.0 | 4.3 | 8.1 | 13.3 | 19.4 | 25.3 | 30.7 | 35.1 | 39.2 | 42.6 |
| 60 | 70 | 65, 80 | 2½, 3 | | | 63 | 15 | 1.7 | 1.9 | 2.2 | 3.3 | 5.6 | 10.4 | 18.4 | 26.3 | 34.4 | 41.8 | 49.3 | 56.3 | 61.9 |
| 63 | 75 | 100, 150 | 4, 6 | | | 63 | 30 | 1.6 | 2.0 | 2.5 | 3.5 | 5.1 | 7.2 | 10.4 | 14.8 | 22.3 | 34.5 | 49.4 | 62.5 | 73.0 |
| 80 | 95 | 80 | 3 | | | 80 | 15 | 2.4 | 3.0 | 3.7 | 5.4 | 7.9 | 11.9 | 19.5 | 28.4 | 38.6 | 50.0 | 61.7 | 74.0 | 85.7 |
| 100 [1] | 120 [1] | 80 | 3 | | | 80 | 19 | 2.4 | 3.2 | 4.2 | 6.7 | 11.1 | 20.1 | 31.8 | 45.5 | 60.2 | 75.5 | 90.3 | 103.9 | – |
| 100 | 120 | 100, 125, 150 | 4, 6 | | | 80 | 30 | 1.05 | 1.44 | 2.0 | 3.4 | 5.6 | 8.4 | 13.6 | 22.9 | 39.9 | 59.9 | 80.5 | 99.2 | 115.9 |
| 160 | 190 | 100, 125, 150 | 4, 6 | | | 100 | 30 | 3.8 | 4.6 | 5.4 | 7.7 | 11.1 | 17.5 | 31.2 | 51.2 | 75.8 | 100.0 | 125.3 | 148.1 | 164.9 |
| 200 | – | 125 | – | | | 110 | 30 | 4.1 | 5.6 | 6.7 | 9.6 | 12.6 | 17.1 | 26.9 | 44.3 | 77.2 | 115.9 | 155.7 | 191.9 | 217.1 |
| 260 | 300 | 150 | 6 | | | 130 | 30 | 7.0 | 8.4 | 11.1 | 19.5 | 36.8 | 67.1 | 100.8 | 136.1 | 169.6 | 203.7 | 235.1 | 264.1 | 289.3 |

[1] With 19 mm overtravel (not for version with bellows seal)

**Table 3248.2:** *KV coefficients ($m^3/h$) for Type 3248 Globe Valve: standard plug without flow divider, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.1 | 0.12 | 15, 20, 25 | ½, ¾, 1 | Without | Linear | 3 | 15 | 0.0014 | 0.0094 | 0.016 | 0.027 | 0.036 | 0.045 | 0.053 | 0.063 | 0.072 | 0.082 | 0.092 | 0.101 | 0.112 |
| 0.16 | 0.2 | 15, 20, 25 | ½, ¾, 1 | | | 3 | 15 | 0.0032 | 0.0112 | 0.019 | 0.033 | 0.048 | 0.064 | 0.080 | 0.097 | 0.113 | 0.129 | 0.145 | 0.161 | 0.178 |
| 0.25 | 0.3 | 15, 20, 25 | ½, ¾, 1 | | | 3 | 15 | 0.0049 | 0.025 | 0.039 | 0.064 | 0.088 | 0.111 | 0.135 | 0.159 | 0.182 | 0.206 | 0.230 | 0.254 | 0.277 |
| 0.4 | 0.5 | 15, 20, 25, 32, 40, 50 | 1/2, 3/4, 1, 1½, 2 | | | 6 | 15 | 0.0059 | 0.034 | 0.058 | 0.103 | 0.143 | 0.184 | 0.225 | 0.266 | 0.307 | 0.348 | 0.389 | 0.429 | 0.470 |
| 0.63 | 0.75 | 15, 20, 25, 32, 40, 50 | 1/2, 3/4, 1, 1½, 2 | | | 6 | 15 | 0.0066 | 0.039 | 0.071 | 0.139 | 0.206 | 0.272 | 0.339 | 0.405 | 0.472 | 0.538 | 0.605 | 0.672 | 0.738 |
| 1 | 1.2 | 15, 20, 25, 32, 40, 50 | 1/2, 3/4, 1, 1½, 2 | | | 6 | 15 | 0.009 | 0.070 | 0.121 | 0.219 | 0.321 | 0.423 | 0.525 | 0.627 | 0.729 | 0.831 | 0.933 | 1.035 | 1.138 |
| 1.6 | 2 | 15, 20, 25, 32, 40, 50 | 1/2, 3/4, 1, 1½, 2 | | | 12 | 15 | 0.025 | 0.105 | 0.187 | 0.352 | 0.523 | 0.693 | 0.864 | 1.035 | 1.205 | 1.38 | 1.55 | 1.72 | 1.89 |
| 2.5 | 3 | 15, 20, 25, 32, 40, 50 | 1/2, 3/4, 1, 1½, 2 | | | 12 | 15 | 0.046 | 0.138 | 0.250 | 0.499 | 0.780 | 1.06 | 1.34 | 1.62 | 1.90 | 2.2 | 2.5 | 2.7 | 3.0 |
| 4 | 5 | 15, 20, 25, 32, 40, 50 | 1/2, 3/4, 1, 1½, 2 | | | 12 | 15 | 0.047 | 0.24 | 0.44 | 0.84 | 1.24 | 1.64 | 2.0 | 2.4 | 2.8 | 3.2 | 3.6 | 4.1 | 4.5 |
| 6.3 | 7.5 | 20, 25, 32, 40, 50 | ¾, 1, 1½, 2 | | | 24 | 15 | 0.081 | 0.43 | 0.75 | 1.36 | 2.0 | 2.6 | 3.2 | 3.8 | 4.4 | 5.0 | 5.6 | 6.2 | 6.8 |
| 10 | 12 | 25, 32, 40, 50 | 1, 1½, 2 | | | 24 | 15 | 0.09 | 0.63 | 1.1 | 2.1 | 3.1 | 4.2 | 5.2 | 6.2 | 7.2 | 8.2 | 9.2 | 10.3 | 11.3 |
| 16 | 20 | 32, 40, 50 | 1½, 2 | | | 31 | 15 | 0.26 | 1.19 | 2.0 | 3.6 | 5.1 | 6.7 | 8.3 | 9.9 | 11.4 | 13.1 | 14.9 | 16.7 | 18.5 |
| 25 | 30 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.42 | 0.77 | 1.22 | 3.0 | 5.6 | 8.1 | 10.7 | 13.2 | 15.8 | 18.4 | 20.9 | 23.5 | 26.1 |
| 40 | 47 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0.71 | 1.25 | 1.94 | 4.5 | 8.6 | 12.9 | 17.2 | 21.5 | 25.8 | 30.1 | 34.4 | 38.7 | 43.0 |
| 60 | 70 | 65, 80 | 2½, 3 | | | 63 | 15 | 0.9 | 4.6 | 8.2 | 15.0 | 21.8 | 28.5 | 35.3 | 41.7 | 47.7 | 53.2 | 58.7 | 64.3 | 69.8 |
| 63 | 75 | 100, 150 | 4, 6 | | | 63 | 30 | 1.7 | 2.5 | 4.6 | 11.4 | 18.5 | 25.6 | 32.7 | 39.9 | 47.0 | 54.1 | 61.2 | 68.3 | 75.4 |
| 80 | 95 | 80 | 3 | | | 80 | 15 | 1.2 | 3.6 | 6.2 | 12.5 | 18.8 | 25.6 | 32.3 | 40.0 | 48.7 | 57.4 | 66.1 | 74.7 | 83.4 |
| 100 [1] | 120 [1] | 80 | 3 | | | 80 | 19 | 1.3 | 4.5 | 8.6 | 17.8 | 28.3 | 39.4 | 50.8 | 61.8 | 72.4 | 82.9 | 93.4 | 103.9 | – |
| 100 | 120 | 100, 125, 150 | 4, 6 | | | 80 | 30 | 2.5 | 3.8 | 7.8 | 19.5 | 31.2 | 42.9 | 54.6 | 66.2 | 77.9 | 89.6 | 101.3 | 113.0 | 124.7 |
| 160 | 190 | 100, 125, 150 | 4, 6 | | | 100 | 30 | 4.2 | 5.9 | 11.2 | 27.5 | 43.2 | 58.8 | 74.5 | 90.2 | 105.9 | 121.6 | 137.2 | 152.9 | 166.8 |
| 200 | – | 125 | – | | | 110 | 30 | 6.3 | 8.8 | 16.2 | 34.5 | 54.6 | 74.8 | 94.9 | 115.1 | 135.3 | 155.4 | 175.6 | 195.7 | 215.9 |
| 260 | 300 | 150 | 6 | | | 130 | 30 | 5.9 | 8.2 | 12.0 | 25.5 | 51.7 | 81.0 | 114.8 | 150.1 | 182.1 | 213.4 | 244.7 | 276.0 | 303.5 |

[1] With 19 mm overtravel (not for version with bellows seal)

**Table 3248.3:** *KV coefficients ($m^3/h$) for Type 3248 Globe Valve: perforated plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient (KV) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 4 | 5 | 25, 32, 40, 50 | 1, 1½, 2 | Perforated plug | Equal percentage | 24 | 15 | 0.028 | 0.075 | 0.12 | 0.18 | 0.26 | 0.39 | 0.58 | 0.86 | 1.3 | 1.8 | 2.7 | 4.1 | 5.4 |
| 6.3 | 7.5 | 25, 32, 40, 50, 65, 80 | 1, 1½, 2, 2½, 3 | | | 24 | 15 | 0.063 | 0.15 | 0.19 | 0.28 | 0.44 | 0.62 | 0.92 | 1.5 | 2.2 | 3.2 | 4.5 | 5.8 | 6.5 |
| 10 | 12 | 32, 40, 50, 65, 80 | 1, 1½, 2, 2½, 3 | | | 31 | 15 | 0.18 | 0.18 | 0.22 | 0.33 | 0.57 | 0.90 | 1.5 | 2.4 | 4.1 | 6.7 | 8.9 | 10.8 | 12.8 |
| 16 | 20 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.28 | 0.44 | 0.58 | 0.95 | 1.3 | 1.9 | 2.8 | 4.3 | 7.2 | 10.0 | 13.0 | 15.8 | 18.3 |
| 25 | 30 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0.47 | 0.80 | 1.1 | 1.8 | 2.3 | 3.4 | 5.9 | 9.6 | 13.8 | 17.9 | 22.1 | 25.7 | 29.2 |
| 36 | 42 | 65, 80 | 2½, 3 | | | 63 | 15 | 0.36 | 0.91 | 1.2 | 1.9 | 3.0 | 4.7 | 7.8 | 12.3 | 17.7 | 24.3 | 30.8 | 36.0 | 40.0 |
| 40 | 47 | 80 | 3 | | | 80 | 15 | 0.40 | 1.2 | 1.5 | 2.3 | 3.6 | 5.2 | 7.7 | 11.4 | 16.6 | 23.8 | 32.2 | 40.0 | 46.8 |
| 54 | 62 | 100, 125, 150 | 4, 6 | | | 63 | 30 | 0.54 | 0.96 | 1.1 | 1.6 | 3.1 | 4.9 | 8.2 | 14.8 | 23.8 | 34.7 | 46.3 | 54.6 | 59.4 |
| 63 | 75 | 100, 125, 150 | 4, 6 | | | 80 | 30 | 0.63 | 3.2 | 5.2 | 11.3 | 19.8 | 29.2 | 39.5 | 47.9 | 54.3 | 59.2 | 63.0 | 65.8 | 68.0 |
| 80 | 95 | 100, 125, 150 | 4, 6 | | | 80 | 30 | 0.80 | 1.3 | 1.3 | 2.6 | 4.1 | 8.7 | 20.6 | 36.9 | 51.8 | 64.8 | 76.3 | 86.0 | 92.7 |
| 100 | 120 | 100, 125, 150 | 4, 6 | | | 100 | 30 | 1.0 | 1.6 | 1.8 | 3.2 | 6.0 | 9.6 | 15.8 | 27.1 | 40.8 | 59.4 | 81.9 | 100.1 | 110.9 |
| 120 | 140 | 125 | 4 | | | 110 | 30 | 1.2 | 1.9 | 2.3 | 5.1 | 9.2 | 15.0 | 23.7 | 35.1 | 52.0 | 73.1 | 98.0 | 118.4 | 133.3 |
| 160 | 190 | 150 | 6 | | | 130 | 30 | 1.6 | 4.5 | 6.2 | 10.4 | 15.2 | 22.5 | 33.2 | 49.5 | 70.0 | 97.3 | 131.6 | 162.7 | 180.3 |

**Table 3248.4:** *KV coefficients ($m^3/h$) for Type 3248 Globe Valve: perforated plug without flow divider, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient (KV) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 4 | 5 | 25, 32, 40, 50 | 1, 1½, 2 | Perforated plug | Linear | 24 | 15 | 0.040 | 0.25 | 0.42 | 0.78 | 1.2 | 1.6 | 2.1 | 2.6 | 3.2 | 3.8 | 4.5 | 5.4 | 6.3 |
| 6.3 | 7.5 | 25, 32, 40, 50, 65, 80 | 1, 1½, 2, 2½, 3 | | | 24 | 15 | 0.073 | 0.43 | 0.73 | 1.3 | 2.0 | 2.6 | 3.2 | 3.8 | 4.5 | 5.2 | 5.8 | 6.5 | 7.2 |
| 10 | 12 | 32, 40, 50, 65, 80 | 1, 1½, 2, 2½, 3 | | | 31 | 15 | 0.10 | 0.53 | 0.95 | 1.8 | 2.6 | 3.7 | 4.8 | 5.9 | 7.1 | 8.3 | 9.8 | 11.2 | 12.2 |
| 16 | 20 | 32, 40, 50, 65, 80 | 1, 1½, 2, 2½, 3 | | | 31 | 15 | 0.28 | 1.5 | 2.6 | 4.7 | 6.8 | 8.9 | 10.8 | 12.3 | 13.5 | 14.5 | 15.2 | 15.7 | 16.0 |
| 25 | 30 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0.006 | 1.1 | 2.5 | 5.9 | 9.1 | 12.3 | 15.2 | 18.0 | 20.1 | 22.0 | 23.3 | 24.0 | 24.6 |
| 36 | 42 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0.64 | 1.1 | 2.6 | 6.6 | 10.3 | 14.1 | 17.8 | 21.7 | 25.4 | 29.0 | 31.9 | 34.0 | 36.0 |
| 47 | 55 | 65, 80 | 2½, 3 | | | 63 | 15 | 0.78 | 3.7 | 6.4 | 11.9 | 17.3 | 22.9 | 28.5 | 33.6 | 38.3 | 42.3 | 45.8 | 48.5 | 50.7 |
| 60 | 70 | 80 | 3 | | | 80 | 15 | 0.60 | 3.7 | 6.8 | 13.2 | 19.6 | 26.5 | 33.7 | 40.2 | 46.8 | 53.2 | 58.8 | 64.3 | 68.6 |
| 63 | 75 | 100, 125, 150 | 4, 6 | | | 63 | 30 | 0.63 | 3.2 | 5.6 | 11.9 | 20.3 | 29.7 | 39.5 | 47.9 | 54.3 | 59.2 | 63.0 | 65.8 | 68.0 |
| 100 | 120 | 100, 125, 150 | 4, 6 | | | 80 | 30 | 1.0 | 6.9 | 13.6 | 28.1 | 41.6 | 54.2 | 65.9 | 76.0 | 84.3 | 89.8 | 94.2 | 97.8 | 100.7 |
| 130 | 160 | 100, 125, 150 | 4, 6 | | | 100 | 30 | 0.54 | 5.5 | 12.1 | 27.1 | 42.6 | 58.0 | 73.1 | 86.7 | 99.2 | 109.9 | 118.4 | 125.6 | 132.0 |
| 160 | 190 | 125 | 4 | | | 110 | 30 | 1.6 | 11.0 | 20.3 | 38.7 | 57.3 | 76.8 | 95.4 | 111.4 | 126.2 | 139.6 | 150.0 | 160.2 | 168.2 |
| 210 | 245 | 150 | 6 | | | 130 | 30 | 2.1 | 14.0 | 24.8 | 48.5 | 72.5 | 97.4 | 121.6 | 142.9 | 163.1 | 181.3 | 197.4 | 212.2 | 224.7 |

**Table 3248.5:** *$K_V$ coefficients ($m^3/h$) for Type 3248 Globe Valve: without valve trim, with cast body*

| Seat Ø [mm] | Flow coefficient ($K_V$) without valve trim | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | DN 15 | DN 20 | DN 25 | DN 32 | DN 40 | DN 50 | DN 65 | DN 80 | DN 100 | DN 125 | DN 150 |
| 3 | 0.34 | 0.34 | 0.34 | – | – | – | – | – | – | – | – |
| 6 | 1.25 | 1.25 | 1.3 | 1.3 | 1.35 | 1.35 | – | – | – | – | – |
| 12 | 4.4 | 4.5 | 4.6 | 4.6 | 4.7 | 4.8 | – | – | – | – | – |
| 24 | – | 8.6 | 13 | 16.9 | 20 | 21.5 | – | – | – | – | – |
| 31 | – | – | – | 20.5 | 29 | 32 | – | – | – | – | – |
| 38 | – | – | – | – | 33 | 46 | 49 | 54 | – | – | – |
| 48 | – | – | – | – | – | 50 | 72 | 81 | – | – | – |
| 63 | – | – | – | – | – | – | 84 | 96 | 127 | 133 | 136 |
| 80 | – | – | – | – | – | – | – | 125 | 165 | 204 | 213 |
| 100 | – | – | – | – | – | – | – | – | 187 | 271 | 311 |
| 110 | – | – | – | – | – | – | – | – | – | 289 | – |
| 125 | – | – | – | – | – | – | – | – | – | – | – |
| 130 | – | – | – | – | – | – | – | – | – | – | 416 |
| 150 | – | – | – | – | – | – | – | – | – | – | – |
| 200 | – | – | – | – | – | – | – | – | – | – | – |
| 250 | – | – | – | – | – | – | – | – | – | – | – |
| 300 | – | – | – | – | – | – | – | – | – | – | – |

**Table 3248.6:** *CV coefficients (gpm) for Type 3248 Globe Valve: standard plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.12 | 0.1 | ½, ¾, 1 | 15, 20, 25 | Without | Equal percentage | 3 | 15 | 0.0020 | 0.0027 | 0.0035 | 0.0050 | 0.0070 | 0.0097 | 0.0150 | 0.0222 | 0.0311 | 0.0483 | 0.0744 | 0.1139 | 0.173 |
| 0.2 | 0.16 | ½, ¾, 1 | 15, 20, 25 | | | 3 | 15 | 0.0022 | 0.0028 | 0.0037 | 0.0055 | 0.0082 | 0.0134 | 0.020 | 0.031 | 0.046 | 0.067 | 0.107 | 0.199 | 0.309 |
| 0.3 | 0.25 | ½, ¾, 1 | 15, 20, 25 | | | 3 | 15 | 0.0044 | 0.0050 | 0.0062 | 0.0094 | 0.0157 | 0.0243 | 0.0367 | 0.0557 | 0.0886 | 0.138 | 0.214 | 0.317 | 0.364 |
| 0.5 | 0.4 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 6 | 15 | 0.009 | 0.010 | 0.013 | 0.022 | 0.033 | 0.051 | 0.074 | 0.107 | 0.151 | 0.221 | 0.328 | 0.504 | 0.871 |
| 0.75 | 0.63 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 6 | 15 | 0.015 | 0.022 | 0.028 | 0.042 | 0.061 | 0.083 | 0.119 | 0.166 | 0.246 | 0.364 | 0.533 | 0.782 | 1.2 |
| 1.2 | 1 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 6 | 15 | 0.022 | 0.029 | 0.036 | 0.051 | 0.076 | 0.113 | 0.172 | 0.261 | 0.390 | 0.572 | 0.853 | 1.27 | 1.46 |
| 2 | 1.6 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 12 | 15 | 0.0278 | 0.0379 | 0.0474 | 0.0725 | 0.111 | 0.169 | 0.255 | 0.392 | 0.595 | 0.900 | 1.34 | 1.97 | 3.00 |
| 3 | 2.5 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 12 | 15 | 0.040 | 0.054 | 0.069 | 0.113 | 0.177 | 0.276 | 0.421 | 0.640 | 0.972 | 1.43 | 2.10 | 3.21 | 4.30 |
| 5 | 4 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 12 | 15 | 0.095 | 0.111 | 0.136 | 0.204 | 0.309 | 0.441 | 0.653 | 1.008 | 1.60 | 2.74 | 4.08 | 4.85 | 5.2 |
| 7.5 | 6.3 | ¾, 1, 1½, 2 | 20, 25, 32, 40, 50 | | | 24 | 15 | 0.16 | 0.20 | 0.24 | 0.34 | 0.48 | 0.73 | 1.10 | 1.56 | 2.32 | 3.40 | 5.01 | 7.69 | 10.5 |
| 12 | 10 | ¾, 1, 1½, 2 | 20, 25, 32, 40, 50 | | | 24 | 15 | 0.15 | 0.27 | 0.34 | 0.54 | 0.81 | 1.18 | 1.69 | 2.43 | 3.52 | 5.4 | 9.4 | 12.1 | 14.2 |
| 20 | 16 | 1½, 2 | 32, 40, 50 | | | 31 | 15 | 0.41 | 0.51 | 0.61 | 0.91 | 1.38 | 2.07 | 3.0 | 4.4 | 6.5 | 9.8 | 14.3 | 18.6 | 21.2 |
| 30 | 25 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.60 | 0.75 | 0.92 | 1.32 | 1.99 | 3.0 | 4.8 | 7.8 | 12.0 | 17.2 | 22.5 | 27.5 | 30.9 |
| 47 | 40 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.86 | 0.93 | 1.14 | 2.3 | 5.0 | 9.3 | 15.4 | 22.4 | 29.2 | 35.5 | 40.6 | 45.3 | 49.2 |
| 70 | 60 | 2½, 3 | 65, 80 | | | 63 | 15 | 2.0 | 2.2 | 2.5 | 3.8 | 6.4 | 12.0 | 21.3 | 30.4 | 39.7 | 48.3 | 57.0 | 65.1 | 71.6 |
| 75 | 63 | 4, 6 | 100, 150 | | | 63 | 30 | 1.9 | 2.3 | 2.9 | 4.1 | 5.8 | 8.3 | 12.1 | 17.1 | 25.8 | 39.9 | 57.1 | 72.3 | 84.3 |
| 95 | 80 | 3 | 80 | | | 80 | 15 | 2.8 | 3.5 | 4.3 | 6.2 | 9.1 | 13.8 | 22.6 | 32.8 | 44.6 | 57.8 | 71.3 | 85.5 | 99.1 |
| 120 [1] | 100 [1] | 3 | 80 | | | 80 | 19 | 2.8 | 3.7 | 4.8 | 7.8 | 12.8 | 23.3 | 36.8 | 52.5 | 69.5 | 87.3 | 104.4 | 120.1 | – |
| 120 | 100 | 4, 6 | 100, 125, 150 | | | 80 | 30 | 1.22 | 1.66 | 2.3 | 4.0 | 6.4 | 9.7 | 15.7 | 26.4 | 46.1 | 69.3 | 93.1 | 114.7 | 133.9 |
| 190 | 160 | 4, 6 | 100, 125, 150 | | | 100 | 30 | 4.4 | 5.3 | 6.2 | 8.9 | 12.9 | 20.2 | 36.0 | 59.2 | 87.6 | 115.6 | 144.9 | 171.2 | 190.6 |
| – | 200 | – | 125 | | | 110 | 30 | 4.7 | 6.4 | 7.8 | 11.1 | 14.5 | 19.7 | 31.1 | 51.2 | 89.2 | 134.0 | 180.0 | 221.8 | 251.0 |
| 300 | 260 | 6 | 150 | | | 130 | 30 | 8.1 | 9.7 | 12.9 | 22.5 | 42.5 | 77.5 | 116.5 | 157.3 | 196.0 | 235.5 | 271.8 | 305.3 | 334.5 |

[1] With 19 mm overtravel (not for version with bellows seal)

**Table 3248.7:** *CV coefficients (gpm) for Type 3248 Globe Valve: standard plug without flow divider, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.12 | 0.1 | ½, ¾, 1 | 15, 20, 25 | Without | Linear | 3 | 15 | 0.0016 | 0.0109 | 0.019 | 0.031 | 0.041 | 0.051 | 0.061 | 0.072 | 0.083 | 0.094 | 0.106 | 0.117 | 0.129 |
| 0.2 | 0.16 | ½, ¾, 1 | 15, 20, 25 | | | 3 | 15 | 0.0037 | 0.0130 | 0.022 | 0.038 | 0.056 | 0.074 | 0.093 | 0.112 | 0.130 | 0.149 | 0.167 | 0.186 | 0.206 |
| 0.3 | 0.25 | ½, ¾, 1 | 15, 20, 25 | | | 3 | 15 | 0.0057 | 0.029 | 0.046 | 0.074 | 0.101 | 0.129 | 0.156 | 0.184 | 0.211 | 0.238 | 0.266 | 0.293 | 0.320 |
| 0.5 | 0.4 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 6 | 15 | 0.0068 | 0.040 | 0.067 | 0.119 | 0.166 | 0.213 | 0.260 | 0.307 | 0.355 | 0.402 | 0.449 | 0.496 | 0.544 |
| 0.75 | 0.63 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 6 | 15 | 0.0076 | 0.045 | 0.083 | 0.161 | 0.238 | 0.315 | 0.392 | 0.469 | 0.546 | 0.623 | 0.699 | 0.776 | 0.853 |
| 1.2 | 1 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 6 | 15 | 0.011 | 0.081 | 0.140 | 0.253 | 0.371 | 0.489 | 0.607 | 0.725 | 0.843 | 0.961 | 1.079 | 1.197 | 1.315 |
| 2 | 1.6 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 12 | 15 | 0.028 | 0.122 | 0.217 | 0.407 | 0.604 | 0.802 | 0.999 | 1.196 | 1.394 | 1.59 | 1.79 | 1.99 | 2.18 |
| 3 | 2.5 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 12 | 15 | 0.053 | 0.160 | 0.289 | 0.577 | 0.902 | 1.23 | 1.55 | 1.87 | 2.20 | 2.5 | 2.8 | 3.2 | 3.5 |
| 5 | 4 | ½, ¾, 1, 1½, 2 | 15, 20, 25, 32, 40, 50 | | | 12 | 15 | 0.054 | 0.28 | 0.51 | 0.97 | 1.44 | 1.90 | 2.4 | 2.8 | 3.3 | 3.8 | 4.2 | 4.7 | 5.1 |
| 7.5 | 6.3 | ¾, 1, 1½, 2 | 20, 25, 32, 40, 50 | | | 24 | 15 | 0.094 | 0.49 | 0.86 | 1.58 | 2.3 | 3.0 | 3.7 | 4.4 | 5.1 | 5.8 | 6.5 | 7.2 | 7.9 |
| 12 | 10 | ¾, 1, 1½, 2 | 20, 25, 32, 40, 50 | | | 24 | 15 | 0.10 | 0.73 | 1.3 | 2.5 | 3.6 | 4.8 | 6.0 | 7.2 | 8.3 | 9.5 | 10.7 | 11.9 | 13.0 |
| 20 | 16 | 1½, 2 | 32, 40, 50 | | | 31 | 15 | 0.30 | 1.37 | 2.3 | 4.1 | 5.9 | 7.8 | 9.6 | 11.4 | 13.2 | 15.1 | 17.2 | 19.3 | 21.4 |
| 30 | 25 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.48 | 0.89 | 1.41 | 3.5 | 6.4 | 9.4 | 12.4 | 15.3 | 18.3 | 21.2 | 24.2 | 27.2 | 30.1 |
| 47 | 40 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.82 | 1.45 | 2.24 | 5.2 | 10.0 | 15.0 | 19.9 | 24.9 | 29.9 | 34.8 | 39.8 | 44.8 | 49.7 |
| 70 | 60 | 2½, 3 | 65, 80 | | | 63 | 15 | 1.0 | 5.4 | 9.5 | 17.3 | 25.1 | 33.0 | 40.8 | 48.3 | 55.1 | 61.5 | 67.9 | 74.3 | 80.7 |
| 75 | 63 | 4, 6 | 100, 150 | | | 63 | 30 | 2.0 | 2.9 | 5.3 | 13.2 | 21.4 | 29.6 | 37.8 | 46.1 | 54.3 | 62.5 | 70.8 | 79.0 | 87.2 |
| 95 | 80 | 3 | 80 | | | 80 | 15 | 1.4 | 4.2 | 7.2 | 14.5 | 21.8 | 29.6 | 37.4 | 46.3 | 56.3 | 66.3 | 76.4 | 86.4 | 96.4 |
| 120 [1)] | 100 [1)] | 3 | 80 | | | 80 | 19 | 1.5 | 5.2 | 9.9 | 20.5 | 32.7 | 45.5 | 58.7 | 71.5 | 83.6 | 95.8 | 108.0 | 120.1 | – |
| 120 | 100 | 4, 6 | 100, 125, 150 | | | 80 | 30 | 2.9 | 4.4 | 9.0 | 22.5 | 36.0 | 49.6 | 63.1 | 76.6 | 90.1 | 103.6 | 117.1 | 130.7 | 144.2 |
| 190 | 160 | 4, 6 | 100, 125, 150 | | | 100 | 30 | 4.8 | 6.8 | 13.0 | 31.8 | 49.9 | 68.0 | 86.2 | 104.3 | 122.4 | 140.5 | 158.7 | 176.8 | 192.9 |
| – | 200 | – | 125 | | | 110 | 30 | 7.3 | 10.1 | 18.7 | 39.8 | 63.1 | 86.4 | 109.8 | 133.1 | 156.4 | 179.7 | 203.0 | 226.3 | 249.6 |
| 300 | 260 | 6 | 150 | | | 130 | 30 | 6.9 | 9.5 | 13.8 | 29.5 | 59.7 | 93.7 | 132.7 | 173.5 | 210.5 | 246.7 | 282.9 | 319.1 | 350.8 |

[1)] With 19 mm overtravel (not for version with bellows seal)

**Table 3248.8:** *CV coefficients (gpm) for Type 3248 Globe Valve: perforated plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 5 | 4 | 1, 1½, 2 | 25, 32, 40, 50 | Perforated plug | Equal percentage | 24 | 15 | 0.033 | 0.087 | 0.13 | 0.21 | 0.30 | 0.45 | 0.67 | 1.00 | 1.5 | 2.1 | 3.2 | 4.8 | 6.3 |
| 7.5 | 6.3 | 1, 1½, 2, 2½, 3 | 25, 32, 40, 50, 65, 80 | | | 24 | 15 | 0.073 | 0.17 | 0.22 | 0.33 | 0.51 | 0.71 | 1.06 | 1.7 | 2.6 | 3.7 | 5.2 | 6.8 | 7.5 |
| 12 | 10 | 1, 1½, 2, 2½, 3 | 32, 40, 50, 65, 80 | | | 31 | 15 | 0.20 | 0.20 | 0.26 | 0.38 | 0.66 | 1.04 | 1.7 | 2.8 | 4.7 | 7.8 | 10.3 | 12.5 | 14.7 |
| 20 | 16 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.33 | 0.50 | 0.67 | 1.10 | 1.5 | 2.2 | 3.2 | 5.0 | 8.3 | 11.6 | 15.0 | 18.2 | 21.2 |
| 30 | 25 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.55 | 0.92 | 1.2 | 2.1 | 2.7 | 3.9 | 6.9 | 11.1 | 15.9 | 20.6 | 25.6 | 29.7 | 33.8 |
| 42 | 36 | 2½, 3 | 65, 80 | | | 63 | 15 | 0.42 | 1.06 | 1.4 | 2.1 | 3.4 | 5.4 | 9.0 | 14.2 | 20.5 | 28.1 | 35.6 | 41.6 | 46.2 |
| 47 | 40 | 3 | 80 | | | 80 | 15 | 0.46 | 1.3 | 1.8 | 2.6 | 4.2 | 6.1 | 8.9 | 13.2 | 19.2 | 27.5 | 37.2 | 46.3 | 54.1 |
| 62 | 54 | 4, 6 | 100, 125, 150 | | | 63 | 30 | 0.62 | 1.11 | 1.3 | 1.8 | 3.6 | 5.6 | 9.5 | 17.1 | 27.5 | 40.1 | 53.5 | 63.1 | 68.7 |
| 75 | 63 | 4, 6 | 100, 125, 150 | | | 80 | 30 | 0.73 | 3.7 | 6.0 | 13.1 | 22.9 | 33.7 | 45.7 | 55.3 | 62.8 | 68.5 | 72.8 | 76.1 | 78.7 |
| 95 | 80 | 4, 6 | 100, 125, 150 | | | 80 | 30 | 0.92 | 1.4 | 1.5 | 3.0 | 4.7 | 10.1 | 23.8 | 42.7 | 59.9 | 74.9 | 88.2 | 99.4 | 107.1 |
| 120 | 100 | 4, 6 | 100, 125, 150 | | | 100 | 30 | 1.2 | 1.8 | 2.0 | 3.7 | 6.9 | 11.1 | 18.3 | 31.3 | 47.2 | 68.7 | 94.7 | 115.7 | 128.2 |
| 140 | 120 | 4 | 125 | | | 110 | 30 | 1.4 | 2.1 | 2.7 | 5.9 | 10.6 | 17.4 | 27.4 | 40.6 | 60.1 | 84.5 | 113.3 | 136.8 | 154.1 |
| 190 | 160 | 6 | 150 | | | 130 | 30 | 1.8 | 5.2 | 7.2 | 12.0 | 17.6 | 26.0 | 38.4 | 57.2 | 80.9 | 112.5 | 152.1 | 188.1 | 208.4 |

**Table 3248.9:** *CV coefficients (gpm) for Type 3248 Globe Valve: perforated plug without flow divider, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 5 | 4 | 1, 1½, 2 | 25, 32, 40, 50 | Perforated plug | Linear | 24 | 15 | 0.046 | 0.29 | 0.48 | 0.91 | 1.4 | 1.9 | 2.4 | 3.0 | 3.7 | 4.4 | 5.3 | 6.3 | 7.3 |
| 7.5 | 6.3 | 1, 1½, 2, 2½, 3 | 25, 32, 40, 50, 65, 80 | | | 24 | 15 | 0.085 | 0.50 | 0.85 | 1.5 | 2.3 | 3.0 | 3.7 | 4.4 | 5.2 | 6.0 | 6.7 | 7.5 | 8.3 |
| 12 | 10 | 1, 1½, 2, 2½, 3 | 32, 40, 50, 65, 80 | | | 31 | 15 | 0.12 | 0.61 | 1.10 | 2.0 | 3.0 | 4.2 | 5.5 | 6.9 | 8.2 | 9.7 | 11.3 | 12.9 | 14.1 |
| 20 | 16 | 1, 1½, 2, 2½, 3 | 32, 40, 50, 65, 80 | | | 31 | 15 | 0.33 | 1.7 | 3.1 | 5.4 | 7.8 | 10.2 | 12.5 | 14.3 | 15.7 | 16.8 | 17.6 | 18.2 | 18.5 |
| 30 | 25 | 1½, 2, 2½, 3 | 40, 50, 65, 80 | | | 38 | 15 | 0.007 | 1.3 | 2.9 | 6.8 | 10.5 | 14.3 | 17.5 | 20.8 | 23.2 | 25.4 | 27.0 | 27.7 | 28.4 |
| 42 | 36 | 2, 2½, 3 | 50, 65, 80 | | | 48 | 15 | 0.74 | 1.3 | 3.0 | 7.6 | 11.9 | 16.3 | 20.6 | 25.1 | 29.4 | 33.6 | 36.9 | 39.4 | 41.6 |
| 55 | 47 | 2½, 3 | 65, 80 | | | 63 | 15 | 0.91 | 4.3 | 7.4 | 13.8 | 19.9 | 26.5 | 33.0 | 38.9 | 44.3 | 48.9 | 52.9 | 56.1 | 58.7 |
| 70 | 60 | 3 | 80 | | | 80 | 15 | 0.69 | 4.3 | 7.9 | 15.3 | 22.7 | 30.6 | 39.0 | 46.5 | 54.1 | 61.5 | 68.0 | 74.3 | 79.3 |
| 75 | 63 | 4, 6 | 100, 125, 150 | | | 63 | 30 | 0.73 | 3.7 | 6.5 | 13.8 | 23.5 | 34.3 | 45.7 | 55.3 | 62.8 | 68.5 | 72.8 | 76.1 | 78.7 |
| 120 | 100 | 4, 6 | 100, 125, 150 | | | 80 | 30 | 1.2 | 8.0 | 15.7 | 32.5 | 48.1 | 62.7 | 76.2 | 87.9 | 97.4 | 103.8 | 108.9 | 113.1 | 116.4 |
| 160 | 130 | 4, 6 | 100, 125, 150 | | | 100 | 30 | 0.62 | 6.4 | 14.0 | 31.3 | 49.2 | 67.0 | 84.5 | 100.2 | 114.7 | 127.1 | 136.9 | 145.2 | 152.6 |
| 190 | 160 | 4 | 125 | | | 110 | 30 | 1.8 | 12.8 | 23.5 | 44.7 | 66.2 | 88.8 | 110.2 | 128.8 | 146.0 | 161.4 | 173.4 | 185.2 | 194.4 |
| 245 | 210 | 6 | 150 | | | 130 | 30 | 2.4 | 16.2 | 28.6 | 56.1 | 83.8 | 112.7 | 140.6 | 165.2 | 188.6 | 209.6 | 228.2 | 245.3 | 259.8 |

**Table 3248.10:** *$C_V$ coefficients (gpm) for Type 3248 Globe Valve: without valve trim, with cast body*

| Seat Ø [mm] | Flow coefficient ($C_V$) without valve trim | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | NPS ½ | NPS ¾ | NPS 1 | NPS 1½ | NPS 2 | NPS 2½ | NPS 3 | NPS 4 | NPS 6 |
| 3 | 0.39 | 0.39 | 0.39 | – | – | – | – | – | – |
| 6 | 1.45 | 1.45 | 1.5 | 1.55 | 1.55 | – | – | – | – |
| 12 | 5.1 | 5.2 | 5.3 | 5.4 | 5.5 | – | – | – | – |
| 24 | – | 10 | 15 | 23 | 25 | – | – | – | – |
| 31 | – | – | – | 33.5 | 37 | – | – | – | – |
| 38 | – | – | – | 38 | 53 | 57 | 62 | – | – |
| 48 | – | – | – | – | 58 | 83 | 94 | – | – |
| 63 | – | – | – | – | – | 97 | 111 | 147 | 157 |
| 80 | – | – | – | – | – | – | 145 | 191 | 246 |
| 100 | – | – | – | – | – | – | – | 216 | 360 |
| 110 | – | – | – | – | – | – | – | – | – |
| 125 | – | – | – | – | – | – | – | – | – |
| 130 | – | – | – | – | – | – | – | – | 481 |
| 150 | – | – | – | – | – | – | – | – | – |
| 200 | – | – | – | – | – | – | – | – | – |
| 250 | – | – | – | – | – | – | – | – | – |
| 300 | – | – | – | – | – | – | – | – | – |

**T 8000-3 EN · Section on Type 3249**

**Type 3249 Angle Valve**

**$K_V$ coefficients ($m^3/h$) for Type 3249 Angle Valve**
**With standard plug**
Without flow divider
With equal percentage characteristic... Table 3249.1
With linear characteristic ..... Table 3249.2

**$C_V$ coefficients (gpm) for Type 3249 Angle Valve**
**With standard plug**
Without flow divider
With equal percentage characteristic... Table 3249.3
With linear characteristic ..... Table 3249.4

**Table 3249.1:** *KV coefficients ($m^3/h$) for Type 3249 Angle Valve: standard plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| 0.1 | 0.12 | 15, 20, 25 | ½, ¾, 1 | Without | Equal percentage | 6 | 7.5 | 0.0021 | 0.0041 | 0.0057 | 0.0080 | 0.0094 | 0.011 | 0.012 | 0.014 | 0.020 | 0.035 | 0.061 | 0.10 |
| 0.16 | 0.2 | 15, 20, 25 | ½, ¾, 1 | | | 6 | 7.5 | 0.0016 | 0.0040 | 0.0067 | 0.013 | 0.018 | 0.024 | 0.030 | 0.040 | 0.056 | 0.081 | 0.12 | 0.17 |
| 0.25 | 0.3 | 15, 20, 25 | ½, ¾, 1 | | | 6 | 7.5 | 0.0021 | 0.0049 | 0.0070 | 0.011 | 0.015 | 0.021 | 0.030 | 0.045 | 0.069 | 0.11 | 0.17 | 0.26 |
| 0.4 | 0.5 | 15, 20, 25 | ½, ¾, 1 | | | 6 | 7.5 | 0.0024 | 0.0050 | 0.0074 | 0.012 | 0.020 | 0.030 | 0.049 | 0.079 | 0.14 | 0.22 | 0.31 | 0.43 |
| 0.63 | 0.75 | 15, 20, 25 | ½, ¾, 1 | | | 6 | 7.5 | 0.014 | 0.018 | 0.023 | 0.036 | 0.059 | 0.091 | 0.13 | 0.18 | 0.24 | 0.31 | 0.43 | 0.65 |
| 1 | 1.2 | 15, 20, 25 | ½, ¾, 1 | | | 6 | 7.5 | 0.020 | 0.024 | 0.032 | 0.053 | 0.080 | 0.11 | 0.17 | 0.26 | 0.38 | 0.56 | 0.78 | 1.0 |
| 1.6 | 2 | 15, 20, 25 | ½, ¾, 1 | | | 12 | 7.5 | 0.021 | 0.038 | 0.051 | 0.070 | 0.094 | 0.13 | 0.21 | 0.33 | 0.49 | 0.78 | 1.2 | 1.9 |
| 2.5 | 3 | 15, 20, 25 | ½, ¾, 1 | | | 12 | 7.5 | 0.024 | 0.037 | 0.051 | 0.092 | 0.15 | 0.23 | 0.34 | 0.50 | 0.75 | 1.2 | 1.9 | 2.6 |
| 4 | 5 | 15, 20, 25 | ½, ¾, 1 | | | 12 | 7.5 | 0.053 | 0.077 | 0.10 | 0.17 | 0.26 | 0.39 | 0.62 | 0.99 | 1.5 | 2.2 | 3.0 | 4.1 |
| 6.3 | 7.5 | 25 | 1 | | | 24 | 7.5 | 0.14 | 0.26 | 0.37 | 0.55 | 0.77 | 1.1 | 1.7 | 2.5 | 3.3 | 4.2 | 5.3 | 6.6 |
| 6.3 | 7.5 | 32, 40, 50, 65, 80, 100 | 1½, 2, 2½, 3, 4 | | | 31 | 15 | 0.078 | 0.095 | 0.13 | 0.22 | 0.34 | 0.55 | 0.93 | 1.5 | 2.1 | 3.0 | 4.3 | 6.5 |
| 10 | 12 | 25 | 1 | | | 24 | 7.5 | 0.15 | 0.21 | 0.34 | 0.83 | 1.9 | 3.1 | 4.6 | 6.1 | 7.6 | 9.0 | 10.4 | 11.4 |
| 10 | 12 | 32, 40, 50, 65, 80, 100 | 1½, 2, 2½, 3, 4 | | | 31 | 15 | 0.21 | 0.23 | 0.24 | 0.33 | 0.53 | 0.89 | 1.3 | 2.0 | 2.9 | 4.6 | 7.2 | 10.6 |
| 16 | 20 | 32, 40, 50, 65, 80, 100 | 1½, 2, 2½, 3, 4 | | | 31 | 15 | 0.35 | 0.38 | 0.45 | 0.70 | 1.1 | 1.5 | 2.1 | 3.0 | 4.9 | 8.2 | 12.3 | 17.3 |
| 25 | 30 | 40, 50, 65, 80, 100 | 1½, 2, 2½, 3, 4 | | | 38 | 15 | 0.55 | 0.75 | 0.94 | 1.3 | 1.9 | 2.5 | 3.4 | 5.3 | 8.2 | 12.7 | 18.9 | 26.0 |
| 40 | 47 | 50, 65, 80, 100 | 2, 2 1/2, 3, 4 | | | 48 | 15 | 0.89 | 1.1 | 1.2 | 2.0 | 4.5 | 8.9 | 13.8 | 18.8 | 23.8 | 29.1 | 34.4 | 40.1 |
| 60 | 70 | 65, 80, 100 | 2½, 3, 4 | | | 63 | 15 | 1.6 | 2.6 | 3.4 | 4.6 | 5.6 | 7.1 | 9.9 | 16.3 | 25.9 | 37.5 | 49.0 | 60.7 |
| 80 | 95 | 80, 100 | 3, 4 | | | 80 | 30 | 2.1 | 2.5 | 3.4 | 6.1 | 10.1 | 16.6 | 24.6 | 35.2 | 47.5 | 61.4 | 73.0 | 82.2 |
| 100 | 120 | 80, 100 | 3, 4 | | | 80 | 30 | 2.5 | 2.9 | 3.5 | 6.3 | 11.2 | 18.9 | 28.7 | 41.0 | 55.0 | 70.0 | 86.7 | 103.9 |
| 160 | 190 | 100 | 4 | | | 100 | 30 | 2.9 | 3.7 | 5.3 | 11.9 | 23.4 | 40.6 | 63.0 | 86.2 | 110.2 | 133.9 | 156.8 | 178.4 |

**Table 3249.2:** *KV coefficients ($m^3/h$) for Type 3249 Angle Valve: standard plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| 0.1 | 0.12 | 15, 20, 25 | ½, ¾, 1 | Without | Linear | 6 | 7.5 | 0.0010 | 0.0070 | 0.013 | 0.022 | 0.031 | 0.041 | 0.050 | 0.061 | 0.072 | 0.083 | 0.093 | 0.10 |
| 0.16 | 0.2 | 15, 20, 25 | ½, ¾, 1 | | | 6 | 7.5 | 0.0013 | 0.0082 | 0.016 | 0.033 | 0.052 | 0.071 | 0.090 | 0.11 | 0.12 | 0.14 | 0.16 | 0.18 |
| 0.25 | 0.3 | 15, 20, 25 | ½, ¾, 1 | | | 6 | 7.5 | 0.004 | 0.020 | 0.032 | 0.053 | 0.073 | 0.10 | 0.12 | 0.14 | 0.17 | 0.19 | 0.22 | 0.25 |
| 0.4 | 0.5 | 15, 20, 25 | ½, ¾, 1 | | | 6 | 7.5 | 0.0040 | 0.014 | 0.035 | 0.080 | 0.13 | 0.18 | 0.23 | 0.28 | 0.32 | 0.37 | 0.42 | 0.47 |
| 0.63 | 0.75 | 15, 20, 25 | ½, ¾, 1 | | | 6 | 7.5 | 0.0063 | 0.032 | 0.065 | 0.12 | 0.18 | 0.24 | 0.30 | 0.36 | 0.42 | 0.49 | 0.56 | 0.64 |
| 1 | 1.2 | 15, 20, 25 | ½, ¾, 1 | | | 6 | 7.5 | 0.010 | 0.078 | 0.13 | 0.22 | 0.29 | 0.37 | 0.45 | 0.54 | 0.64 | 0.76 | 0.88 | 1.0 |
| 1.6 | 2 | 15, 20, 25 | ½, ¾, 1 | | | 12 | 7.5 | 0.016 | 0.075 | 0.15 | 0.34 | 0.52 | 0.71 | 0.89 | 1.1 | 1.2 | 1.4 | 1.6 | 1.7 |
| 2.5 | 3 | 15, 20, 25 | ½, ¾, 1 | | | 12 | 7.5 | 0.025 | 0.18 | 0.33 | 0.64 | 0.94 | 1.2 | 1.5 | 1.8 | 2.0 | 2.3 | 2.5 | 2.8 |
| 4 | 5 | 15, 20, 25 | ½, ¾, 1 | | | 12 | 7.5 | 0.040 | 0.15 | 0.38 | 0.83 | 1.3 | 1.8 | 2.2 | 2.7 | 3.1 | 3.5 | 3.9 | 4.3 |
| 6.3 | 7.5 | 25 | 1 | | | 24 | 7.5 | 0.13 | 0.67 | 1.0 | 1.7 | 2.3 | 2.9 | 3.5 | 4.2 | 4.8 | 5.4 | 6.0 | 6.5 |
| 6.3 | 7.5 | 32, 40, 50, 65, 80, 100 | 1½, 2, 2½, 3, 4 | | | 31 | 15 | 0.13 | 0.26 | 0.55 | 1.3 | 2.1 | 2.8 | 3.5 | 4.2 | 4.9 | 5.5 | 6.0 | 6.6 |
| 10 | 12 | 25 | 1 | | | 24 | 7.5 | 0.22 | 0.65 | 1.1 | 2.0 | 2.8 | 3.8 | 4.7 | 5.7 | 6.8 | 8.0 | 9.5 | 11.0 |
| 10 | 12 | 32, 40, 50, 65, 80, 100 | 1½, 2, 2½, 3, 4 | | | 31 | 15 | 0.020 | 0.47 | 1.1 | 2.3 | 3.5 | 4.6 | 5.7 | 6.8 | 7.7 | 8.6 | 9.5 | 10.4 |
| 16 | 20 | 32, 40, 50, 65, 80, 100 | 1½, 2, 2½, 3, 4 | | | 31 | 15 | 0.27 | 1.3 | 2.2 | 4.1 | 5.7 | 7.4 | 9.0 | 10.6 | 12.2 | 13.9 | 15.5 | 17.3 |
| 25 | 30 | 40, 50, 65, 80, 100 | 1½, 2, 2½, 3, 4 | | | 38 | 15 | 0.42 | 1.3 | 2.6 | 5.0 | 7.5 | 10.0 | 12.4 | 14.9 | 17.4 | 20.2 | 23.0 | 25.9 |
| 40 | 47 | 50, 65, 80, 100 | 2, 2 1/2, 3, 4 | | | 48 | 15 | 0.67 | 1.8 | 3.6 | 7.5 | 11.3 | 15.2 | 19.2 | 23.2 | 27.2 | 31.5 | 35.9 | 40.7 |
| 60 | 70 | 65, 80, 100 | 2½, 3, 4 | | | 63 | 15 | 1.0 | 2.1 | 4.5 | 10.3 | 16.5 | 22.6 | 29.1 | 36.1 | 43.0 | 50.1 | 57.6 | 65.0 |
| 80 | 95 | 80, 100 | 3, 4 | | | 80 | 30 | 2.2 | 4.0 | 6.7 | 12.9 | 20.4 | 29.3 | 38.3 | 47.6 | 57.1 | 66.0 | 74.7 | 83.3 |
| 100 | 120 | 80, 100 | 3, 4 | | | 80 | 30 | 2.5 | 3.3 | 5.6 | 14.3 | 24.4 | 35.8 | 47.3 | 59.7 | 72.4 | 85.4 | 98.6 | 110.2 |
| 160 | 190 | 100 | 4 | | | 100 | 30 | 5.17 | 6.65 | 9.3 | 21.3 | 36.7 | 53.3 | 70.2 | 88.7 | 108.0 | 127.5 | 147.1 | 167.1 |

**Table 3249.3:** *CV coefficients (gpm) for Type 3249 Angle Valve: standard plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| 0.12 | 0.1 | ½, ¾, 1 | 15, 20, 25 | Without | Equal percentage | 6 | 7.5 | 0.0024 | 0.0048 | 0.0066 | 0.0092 | 0.0108 | 0.012 | 0.014 | 0.016 | 0.023 | 0.040 | 0.070 | 0.11 |
| 0.2 | 0.16 | ½, ¾, 1 | 15, 20, 25 | | | 6 | 7.5 | 0.0018 | 0.0046 | 0.0077 | 0.015 | 0.021 | 0.028 | 0.034 | 0.046 | 0.064 | 0.094 | 0.13 | 0.20 |
| 0.3 | 0.25 | ½, ¾, 1 | 15, 20, 25 | | | 6 | 7.5 | 0.0025 | 0.0057 | 0.0081 | 0.013 | 0.018 | 0.024 | 0.035 | 0.051 | 0.080 | 0.12 | 0.19 | 0.30 |
| 0.5 | 0.4 | ½, ¾, 1 | 15, 20, 25 | | | 6 | 7.5 | 0.0027 | 0.0058 | 0.0086 | 0.014 | 0.023 | 0.035 | 0.056 | 0.091 | 0.16 | 0.25 | 0.36 | 0.50 |
| 0.75 | 0.63 | ½, ¾, 1 | 15, 20, 25 | | | 6 | 7.5 | 0.016 | 0.021 | 0.026 | 0.042 | 0.068 | 0.105 | 0.15 | 0.21 | 0.28 | 0.36 | 0.50 | 0.75 |
| 1.2 | 1 | ½, ¾, 1 | 15, 20, 25 | | | 6 | 7.5 | 0.023 | 0.028 | 0.037 | 0.061 | 0.092 | 0.13 | 0.19 | 0.30 | 0.44 | 0.64 | 0.90 | 1.2 |
| 2 | 1.6 | ½, ¾, 1 | 15, 20, 25 | | | 12 | 7.5 | 0.024 | 0.044 | 0.059 | 0.081 | 0.109 | 0.15 | 0.24 | 0.38 | 0.57 | 0.90 | 1.4 | 2.2 |
| 3 | 2.5 | ½, ¾, 1 | 15, 20, 25 | | | 12 | 7.5 | 0.028 | 0.043 | 0.059 | 0.106 | 0.18 | 0.27 | 0.40 | 0.58 | 0.87 | 1.4 | 2.2 | 3.0 |
| 5 | 4 | ½, ¾, 1 | 15, 20, 25 | | | 12 | 7.5 | 0.062 | 0.089 | 0.12 | 0.20 | 0.30 | 0.45 | 0.72 | 1.14 | 1.8 | 2.5 | 3.5 | 4.7 |
| 7.5 | 6.3 | 1 | 25 | | | 24 | 7.5 | 0.17 | 0.30 | 0.43 | 0.64 | 0.89 | 1.3 | 2.0 | 2.9 | 3.9 | 4.9 | 6.2 | 7.6 |
| 7.5 | 6.3 | 1½, 2, 2½, 3, 4 | 32, 40, 50, 65, 80, 100 | | | 31 | 15 | 0.090 | 0.110 | 0.15 | 0.25 | 0.39 | 0.64 | 1.08 | 1.7 | 2.5 | 3.4 | 4.9 | 7.5 |
| 12 | 10 | 1 | 25 | | | 24 | 7.5 | 0.17 | 0.24 | 0.39 | 0.96 | 2.2 | 3.6 | 5.3 | 7.0 | 8.7 | 10.5 | 12.0 | 13.2 |
| 12 | 10 | 1½, 2, 2½, 3, 4 | 32, 40, 50, 65, 80, 100 | | | 31 | 15 | 0.24 | 0.26 | 0.28 | 0.38 | 0.61 | 1.03 | 1.5 | 2.3 | 3.3 | 5.3 | 8.3 | 12.3 |
| 20 | 16 | 1½, 2, 2½, 3, 4 | 32, 40, 50, 65, 80, 100 | | | 31 | 15 | 0.41 | 0.44 | 0.52 | 0.81 | 1.2 | 1.7 | 2.4 | 3.5 | 5.7 | 9.4 | 14.3 | 20.0 |
| 30 | 25 | 1½, 2, 2½, 3, 4 | 40, 50, 65, 80, 100 | | | 38 | 15 | 0.64 | 0.87 | 1.09 | 1.6 | 2.2 | 2.9 | 4.0 | 6.2 | 9.5 | 14.7 | 21.9 | 30.0 |
| 47 | 40 | 2, 2 1/2, 3, 4 | 50, 65, 80, 100 | | | 48 | 15 | 1.03 | 1.3 | 1.4 | 2.3 | 5.2 | 10.3 | 16.0 | 21.7 | 27.5 | 33.6 | 39.8 | 46.3 |
| 70 | 60 | 2½, 3, 4 | 65, 80, 100 | | | 63 | 15 | 1.8 | 3.0 | 3.9 | 5.3 | 6.5 | 8.2 | 11.4 | 18.8 | 29.9 | 43.3 | 56.7 | 70.2 |
| 95 | 80 | 3, 4 | 80, 100 | | | 80 | 30 | 2.5 | 2.9 | 3.9 | 7.0 | 11.7 | 19.2 | 28.4 | 40.7 | 54.9 | 70.9 | 84.4 | 95.0 |
| 120 | 100 | 3, 4 | 80, 100 | | | 80 | 30 | 2.9 | 3.3 | 4.1 | 7.3 | 13.0 | 21.8 | 33.2 | 47.4 | 63.6 | 80.9 | 100.2 | 120.1 |
| 190 | 160 | 4 | 100 | | | 100 | 30 | 3.4 | 4.3 | 6.1 | 13.8 | 27.1 | 46.9 | 72.8 | 99.7 | 127.4 | 154.8 | 181.3 | 206.2 |

**Table 3249.4:** *CV coefficients (gpm) for Type 3249 Angle Valve: standard plug without flow divider, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| 0.12 | 0.1 | ½, ¾, 1 | 15, 20, 25 | Without | Linear | 6 | 7.5 | 0.0012 | 0.0081 | 0.015 | 0.026 | 0.036 | 0.047 | 0.058 | 0.071 | 0.084 | 0.096 | 0.108 | 0.12 |
| 0.2 | 0.16 | ½, ¾, 1 | 15, 20, 25 | | | 6 | 7.5 | 0.0015 | 0.0095 | 0.018 | 0.038 | 0.060 | 0.082 | 0.104 | 0.12 | 0.14 | 0.17 | 0.18 | 0.20 |
| 0.3 | 0.25 | ½, ¾, 1 | 15, 20, 25 | | | 6 | 7.5 | 0.005 | 0.023 | 0.037 | 0.061 | 0.085 | 0.11 | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.29 |
| 0.5 | 0.4 | ½, ¾, 1 | 15, 20, 25 | | | 6 | 7.5 | 0.0046 | 0.016 | 0.040 | 0.092 | 0.15 | 0.21 | 0.26 | 0.32 | 0.37 | 0.43 | 0.49 | 0.55 |
| 0.75 | 0.63 | ½, ¾, 1 | 15, 20, 25 | | | 6 | 7.5 | 0.0073 | 0.037 | 0.075 | 0.14 | 0.21 | 0.28 | 0.35 | 0.42 | 0.49 | 0.56 | 0.65 | 0.73 |
| 1.2 | 1 | ½, ¾, 1 | 15, 20, 25 | | | 6 | 7.5 | 0.012 | 0.090 | 0.15 | 0.25 | 0.33 | 0.42 | 0.52 | 0.63 | 0.74 | 0.87 | 1.02 | 1.2 |
| 2 | 1.6 | ½, ¾, 1 | 15, 20, 25 | | | 12 | 7.5 | 0.018 | 0.087 | 0.17 | 0.39 | 0.60 | 0.82 | 1.03 | 1.2 | 1.4 | 1.6 | 1.8 | 2.0 |
| 3 | 2.5 | ½, ¾, 1 | 15, 20, 25 | | | 12 | 7.5 | 0.029 | 0.21 | 0.38 | 0.73 | 1.08 | 1.4 | 1.7 | 2.1 | 2.4 | 2.7 | 2.9 | 3.2 |
| 5 | 4 | ½, ¾, 1 | 15, 20, 25 | | | 12 | 7.5 | 0.046 | 0.17 | 0.44 | 0.97 | 1.5 | 2.0 | 2.6 | 3.1 | 3.6 | 4.0 | 4.5 | 5.0 |
| 7.5 | 6.3 | 1 | 25 | | | 24 | 7.5 | 0.15 | 0.77 | 1.2 | 1.9 | 2.6 | 3.4 | 4.1 | 4.8 | 5.5 | 6.3 | 7.0 | 7.5 |
| 7.5 | 6.3 | 1½, 2, 2½, 3, 4 | 32, 40, 50, 65, 80, 100 | | | 31 | 15 | 0.15 | 0.30 | 0.64 | 1.4 | 2.4 | 3.2 | 4.0 | 4.9 | 5.6 | 6.3 | 7.0 | 7.6 |
| 12 | 10 | 1 | 25 | | | 24 | 7.5 | 0.25 | 0.75 | 1.2 | 2.3 | 3.3 | 4.4 | 5.5 | 6.6 | 7.9 | 9.3 | 10.9 | 12.8 |
| 12 | 10 | 1½, 2, 2½, 3, 4 | 32, 40, 50, 65, 80, 100 | | | 31 | 15 | 0.023 | 0.54 | 1.2 | 2.6 | 4.0 | 5.4 | 6.6 | 7.8 | 8.9 | 10.0 | 11.0 | 12.0 |
| 20 | 16 | 1½, 2, 2½, 3, 4 | 32, 40, 50, 65, 80, 100 | | | 31 | 15 | 0.31 | 1.5 | 2.5 | 4.7 | 6.6 | 8.6 | 10.4 | 12.3 | 14.1 | 16.0 | 18.0 | 19.9 |
| 30 | 25 | 1½, 2, 2½, 3, 4 | 40, 50, 65, 80, 100 | | | 38 | 15 | 0.48 | 1.5 | 3.0 | 5.8 | 8.7 | 11.6 | 14.4 | 17.3 | 20.2 | 23.3 | 26.5 | 29.9 |
| 47 | 40 | 2, 2 1/2, 3, 4 | 50, 65, 80, 100 | | | 48 | 15 | 0.77 | 2.0 | 4.2 | 8.7 | 13.1 | 17.6 | 22.2 | 26.8 | 31.4 | 36.4 | 41.5 | 47.0 |
| 70 | 60 | 2½, 3, 4 | 65, 80, 100 | | | 63 | 15 | 1.2 | 2.4 | 5.2 | 11.9 | 19.1 | 26.1 | 33.6 | 41.7 | 49.7 | 57.9 | 66.6 | 75.2 |
| 95 | 80 | 3, 4 | 80, 100 | | | 80 | 30 | 2.6 | 4.6 | 7.7 | 14.9 | 23.6 | 33.9 | 44.3 | 55.0 | 66.0 | 76.3 | 86.4 | 96.3 |
| 120 | 100 | 3, 4 | 80, 100 | | | 80 | 30 | 2.9 | 3.8 | 6.5 | 16.5 | 28.2 | 41.4 | 54.7 | 69.0 | 83.7 | 98.7 | 114.0 | 127.4 |
| 190 | 160 | 4 | 100 | | | 100 | 30 | 5.97 | 7.69 | 10.8 | 24.6 | 42.4 | 61.6 | 81.2 | 102.5 | 124.9 | 147.5 | 170.1 | 193.2 |

## T 8000-3 EN · Section on Type 3251 EN

## Type 3251 Globe Valve


**$K_V$ coefficients (m³/h) for Type 3251 Globe Valve**

**With standard plug**

Without flow divider

With eq. percentage characteristic ..... Table 3251.1

With linear characteristic ..... Table 3251.2

With flow divider ST 1

With eq. percentage characteristic ..... Table 3251.3

With linear characteristic ..... Table 3251.4

With flow divider ST 2

With eq. percentage characteristic ..... Table 3251.5

With linear characteristic ..... Table 3251.6

With flow divider ST 3

With eq. percentage characteristic ..... Table 3251.7

With linear characteristic ..... Table 3251.8

**With AC trim**

AC-1, equal percentage ..... Table 3251.9

AC-3, equal percentage ..... Table 3251.10

AC-3, linear ..... Table 3251.11

**With perforated plug**

Without flow divider

With eq. percentage characteristic ..... Table 3251.12

With linear characteristic ..... Table 3251.13

With flow divider ST 1

With equal percentage characteristic Table 3251.14

With linear characteristic ..... Table 3251.15

With flow divider ST 2

With equal percentage characteristic Table 3251.16

With linear characteristic ..... Table 3251.17

With flow divider ST 3

With eq.percentage characteristic ..... Table 3251.18

With linear characteristic ..... Table 3251.19

**Without plug**

PN 40 ..... Table 3251.20

**$C_V$ coefficients (gpm) for Type 3251 Globe Valve**

**With standard plug**

Without flow divider

With equal percentage characteristic Table 3251.21

With linear characteristic ..... Table 3251.22

With flow divider ST 1

With eq. percentage characteristic ..... Table 3251.23

With linear characteristic ..... Table 3251.24

With flow divider ST 2

With equal percentage characteristic Table 3251.25

With linear characteristic ..... Table 3251.26

With flow divider ST 3

With equal percentage characteristic Table 3251.27

With linear characteristic ..... Table 3251.28

**With AC trim**

AC-1, equal percentage ..... Table 3251.29

AC-3, equal percentage ..... Table 3251.30

AC-3, linear ..... Table 3251.31

**With perforated plug**

Without flow divider

With equal percentage characteristic Table 3251.32

With linear characteristic ..... Table 3251.33

With flow divider ST 1

With equal percentage characteristic Table 3251.34

With linear characteristic ..... Table 3251.35

With flow divider ST 2

With equal percentage characteristic Table 3251.36

With linear characteristic ..... Table 3251.37

With flow divider ST 3

With equal percentage characteristic Table 3251.38

With linear characteristic ..... Table 3251.39

**Without plug**

PN 40 ..... Table 3251.40

**Table 3251.1:** *KV coefficients ($m^3/h$) for Type 3251 Globe Valve: standard plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.1 | 0.12 | 15, 25, 40 | ½, 1, 1½ | Without | Equal percentage | 6 | 15 | 0.0022 | 0.0029 | 0.0038 | 0.0062 | 0.009 | 0.013 | 0.018 | 0.025 | 0.034 | 0.051 | 0.074 | 0.094 | 0.111 |
| 0.16 | 0.2 | 15, 25, 40 | ½, 1, 1½ | | | 6 | 15 | 0.0035 | 0.0046 | 0.0058 | 0.0087 | 0.012 | 0.017 | 0.023 | 0.031 | 0.042 | 0.061 | 0.095 | 0.157 | 0.222 |
| 0.25 | 0.3 | 15, 25, 40 | ½, 1, 1½ | | | 6 | 15 | 0.0055 | 0.0061 | 0.0068 | 0.010 | 0.014 | 0.020 | 0.030 | 0.042 | 0.062 | 0.096 | 0.158 | 0.249 | 0.358 |
| 0.4 | 0.5 | 15, 25, 40 | ½, 1, 1½ | | | 6 | 15 | 0.0076 | 0.0087 | 0.010 | 0.015 | 0.023 | 0.036 | 0.057 | 0.087 | 0.126 | 0.181 | 0.267 | 0.439 | 0.865 |
| 0.63 | 0.75 | 15, 25, 40 | ½, 1, 1½ | | | 6 | 15 | 0.014 | 0.017 | 0.020 | 0.028 | 0.041 | 0.060 | 0.088 | 0.126 | 0.182 | 0.266 | 0.401 | 0.672 | 1.09 |
| 1 | 1.2 | 15, 25, 40 | ½, 1, 1½ | | | 6 | 15 | 0.022 | 0.028 | 0.034 | 0.048 | 0.069 | 0.10 | 0.15 | 0.22 | 0.32 | 0.50 | 0.76 | 1.10 | 1.45 |
| 1.6 | 2 | 15, 25, 40 | ½, 1, 1½ | | | 12 | 15 | 0.031 | 0.039 | 0.049 | 0.076 | 0.11 | 0.17 | 0.23 | 0.34 | 0.48 | 0.72 | 1.09 | 1.75 | 2.9 |
| 2.5 | 3 | 15, 25, 40 | ½, 1, 1½ | | | 12 | 15 | 0.051 | 0.060 | 0.074 | 0.11 | 0.16 | 0.25 | 0.37 | 0.55 | 0.80 | 1.19 | 1.78 | 2.6 | 3.5 |
| 4 | 5 | 12, 25, 40, 50, 80 | ½, 1, 1½, 2, 3 | | | 24 | 15 | 0.078 | 0.09 | 0.11 | 0.17 | 0.25 | 0.35 | 0.50 | 0.70 | 1.06 | 1.65 | 2.6 | 4.3 | 6.4 |
| 6.3 | 7.5 | 25, 40, 50, 80 | 1, 1½, 2, 3 | | | 24 | 15 | 0.14 | 0.18 | 0.22 | 0.33 | 0.49 | 0.69 | 0.99 | 1.45 | 2.2 | 3.2 | 4.7 | 6.7 | 8.7 |
| 10 | 12 | 25, 40, 50, 80 | 1, 1½, 2, 3 | | | 24 | 15 | 0.21 | 0.28 | 0.36 | 0.56 | 0.81 | 1.13 | 1.54 | 2.2 | 3.1 | 4.5 | 6.6 | 9.4 | 10.7 |
| 16 | 20 | 40, 50, 80 | 1½, 2, 3 | | | 31 | 15 | 0.34 | 0.45 | 0.56 | 0.87 | 1.27 | 1.83 | 2.6 | 3.8 | 6.0 | 9.8 | 13.5 | 16.5 | 18.7 |
| 25 | 30 | 40, 50, 80, 100 | 1½, 2, 3, 4 | | | 38 | 15 | 0.40 | 0.53 | 0.66 | 0.97 | 1.44 | 2.2 | 3.9 | 6.9 | 11.2 | 15.5 | 19.7 | 23.6 | 26.5 |
| 40 | 47 | 50, 80, 100 | 2, 3, 4 | | | 50 | 30 | 0.63 | 0.85 | 1.15 | 1.79 | 2.6 | 3.7 | 5.5 | 8.4 | 12.6 | 19.1 | 27.9 | 37.6 | 45.3 |
| 63 | 75 | 80, 100, 150 | 3, 4, 6 | | | 63 | 30 | 1.20 | 1.34 | 1.52 | 2.2 | 3.4 | 5.1 | 7.5 | 11.9 | 18.7 | 29.6 | 43.6 | 58.4 | 67.3 |
| 100 | 120 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 1.38 | 1.66 | 2.1 | 3.5 | 5.7 | 9.3 | 14.7 | 23.5 | 37.9 | 58.8 | 78.2 | 93.8 | 104.4 |
| 160 | 190 | 100, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 2.6 | 3.5 | 4.8 | 7.6 | 11.4 | 16.9 | 28.7 | 47.7 | 72.1 | 97.4 | 124.2 | 148.2 | 165.7 |
| 250 | 290 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 4.1 | 5.6 | 7.2 | 11.8 | 18.2 | 26.9 | 38.3 | 55.9 | 89.0 | 153.4 | 212.5 | 261.7 | 293.5 |
| 360 | 420 | 150, 200, 250, 300, 350, 400 | 6, 8, 10, 12, 14, 16 | | | 150 | 60 | 5.8 | 7.5 | 10.3 | 16.1 | 24.1 | 35.4 | 51.5 | 81.8 | 140.4 | 218.4 | 288.8 | 345.8 | 381.9 |
| 630 | 735 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 9.4 | 14.9 | 20.0 | 36.3 | 71.8 | 131.5 | 222.7 | 327.6 | 419.4 | 498.1 | 561.3 | 602.2 | 625.6 |
| 1000 | 1150 | 250, 300, 350, 400, 500 | 10, 12, 14, 16, 20 | | | 250 | 120 | 15.5 | 21.7 | 30.5 | 51.3 | 79.4 | 118.3 | 177.8 | 260.4 | 399.9 | 612.2 | 843.9 | 1074.2 | 1184.6 |
| 1500 | 1730 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 300 | 120 | 20.1 | 31.0 | 43.7 | 73.4 | 113.5 | 169.2 | 254.3 | 372.4 | 571.8 | 875.4 | 1206.7 | 1536.2 | 1694.0 |
| 2000 | 2300 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 27.8 | 39.1 | 55.0 | 92.4 | 142.9 | 213.0 | 320.1 | 468.7 | 719.8 | 1101.9 | 1518.9 | 1933.6 | 2132.3 |
| 2500 | 2900 | 400, 500 | 16, 20 | | | 400 | 120 | 35.1 | 49.3 | 69.3 | 116.5 | 180.2 | 268.6 | 403.6 | 591.0 | 907.5 | 1389.3 | 1915.1 | 2438.0 | 2688.4 |
| 3600 | 4200 | 500 | 20 | | | 500 | 120 | 54.1 | 76.0 | 106.9 | 179.6 | 277.9 | 414.2 | 622.4 | 911.5 | 1399.6 | 2113.6 | 2778.5 | 3300.6 | 3686.3 |

**Table 3251.2:** *KV coefficients ($m^3/h$) for Type 3251 Globe Valve: standard plug without flow divider, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.1 | 0.12 | 15, 25, 40 | ½, 1, 1½ | Without | Linear | 6 | 15 | 0.0022 | 0.0067 | 0.012 | 0.021 | 0.030 | 0.039 | 0.048 | 0.058 | 0.067 | 0.076 | 0.085 | 0.094 | 0.103 |
| 0.16 | 0.2 | 15, 25, 40 | ½, 1, 1½ | | | 6 | 15 | 0.0035 | 0.0059 | 0.011 | 0.025 | 0.041 | 0.057 | 0.074 | 0.090 | 0.107 | 0.123 | 0.140 | 0.156 | 0.172 |
| 0.25 | 0.3 | 15, 25, 40 | ½, 1, 1½ | | | 6 | 15 | 0.0039 | 0.011 | 0.022 | 0.046 | 0.070 | 0.094 | 0.117 | 0.141 | 0.165 | 0.189 | 0.213 | 0.236 | 0.260 |
| 0.4 | 0.5 | 15, 25, 40 | ½, 1, 1½ | | | 6 | 15 | 0.0087 | 0.020 | 0.038 | 0.079 | 0.123 | 0.166 | 0.209 | 0.252 | 0.295 | 0.338 | 0.381 | 0.424 | 0.467 |
| 0.63 | 0.75 | 15, 25, 40 | ½, 1, 1½ | | | 6 | 15 | 0.013 | 0.039 | 0.069 | 0.136 | 0.205 | 0.275 | 0.344 | 0.414 | 0.483 | 0.553 | 0.622 | 0.692 | 0.762 |
| 1 | 1.2 | 15, 25, 40 | ½, 1, 1½ | | | 6 | 15 | 0.019 | 0.099 | 0.169 | 0.278 | 0.380 | 0.483 | 0.586 | 0.689 | 0.792 | 0.894 | 1.00 | 1.10 | 1.20 |
| 1.6 | 2 | 15, 25, 40 | ½, 1, 1½ | | | 12 | 15 | 0.035 | 0.11 | 0.19 | 0.36 | 0.53 | 0.70 | 0.87 | 1.04 | 1.22 | 1.39 | 1.56 | 1.73 | 1.90 |
| 2.5 | 3 | 15, 25, 40 | ½, 1, 1½ | | | 12 | 15 | 0.042 | 0.16 | 0.29 | 0.54 | 0.80 | 1.07 | 1.33 | 1.60 | 1.86 | 2.1 | 2.4 | 2.7 | 2.9 |
| 4 | 5 | 15, 25, 40, 50, 80 | ½, 1, 1½, 2, 3 | | | 24 | 15 | 0.040 | 0.12 | 0.32 | 0.79 | 1.24 | 1.69 | 2.1 | 2.6 | 3.0 | 3.5 | 3.9 | 4.4 | 4.9 |
| 6.3 | 7.5 | 25, 40, 50, 80 | 1, 1½, 2, 3 | | | 24 | 15 | 0.097 | 0.31 | 0.66 | 1.35 | 2.0 | 2.7 | 3.4 | 4.1 | 4.8 | 5.5 | 6.2 | 6.9 | 7.6 |
| 10 | 12 | 25, 40, 50, 80 | 1, 1½, 2, 3 | | | 24 | 15 | 0.16 | 0.61 | 1.12 | 2.2 | 3.3 | 4.4 | 5.5 | 6.6 | 7.7 | 8.8 | 9.9 | 11.0 | 12.1 |
| 16 | 20 | 40, 50, 80 | 1½, 2, 3 | | | 31 | 15 | 0.19 | 0.95 | 1.79 | 3.5 | 5.3 | 7.0 | 8.8 | 10.5 | 12.3 | 14.0 | 15.8 | 17.5 | 19.3 |
| 25 | 30 | 40, 50, 80, 100 | 1½, 2, 3, 4 | | | 38 | 15 | 0.32 | 0.81 | 1.53 | 4.0 | 6.5 | 9.0 | 11.5 | 14.1 | 16.6 | 19.1 | 21.6 | 24.2 | 26.7 |
| 40 | 47 | 50, 80, 100 | 2, 3, 4 | | | 50 | 30 | 0.54 | 1.49 | 3.2 | 7.8 | 12.1 | 16.5 | 20.8 | 25.1 | 29.4 | 33.8 | 38.1 | 42.4 | 46.8 |
| 63 | 75 | 80, 100, 150 | 3, 4, 6 | | | 63 | 30 | 1.02 | 1.75 | 4.1 | 11.1 | 18.2 | 25.2 | 32.3 | 39.4 | 46.4 | 53.5 | 60.5 | 67.6 | 74.7 |
| 100 | 120 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 0.74 | 2.3 | 6.3 | 17.3 | 28.3 | 39.2 | 50.1 | 61.0 | 72.0 | 82.9 | 93.8 | 104.8 | 115.7 |
| 160 | 190 | 100, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 1.9 | 4.0 | 10.5 | 25.3 | 41.0 | 56.6 | 72.3 | 88.0 | 103.7 | 119.3 | 135.0 | 150.7 | 164.9 |
| 250 | 290 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 3.5 | 6.3 | 17.6 | 46.4 | 75.0 | 103.5 | 132.1 | 160.7 | 189.3 | 217.8 | 246.4 | 275.0 | 303.5 |
| 360 | 420 | 150, 200, 250, 300, 350, 399 | 6, 8, 10, 12, 14, 16 | | | 150 | 60 | 4.3 | 12.3 | 31.3 | 65.1 | 101.2 | 135.3 | 169.4 | 203.6 | 237.7 | 271.8 | 305.9 | 340.0 | 362.7 |
| 630 | 735 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 10.1 | 29.0 | 58.2 | 120.8 | 182.2 | 243.6 | 305.0 | 366.4 | 427.8 | 489.2 | 550.6 | 612.0 | 652.8 |
| 1000 | 1150 | 250, 300, 350, 400, 500 | 10, 12, 14, 16, 20 | | | 250 | 120 | 15.0 | 27.7 | 73.3 | 182.8 | 295.4 | 407.9 | 520.5 | 633.1 | 745.7 | 858.2 | 970.8 | 1083.4 | 1196.0 |
| 1500 | 1730 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 300 | 120 | 22.8 | 72.2 | 145.8 | 308.7 | 465.6 | 622.5 | 779.4 | 936.3 | 1093.2 | 1250.2 | 1407.1 | 1564.0 | 1679.2 |
| 2000 | 2300 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 30.2 | 59.7 | 134.3 | 324.7 | 524.7 | 724.7 | 924.8 | 1124.8 | 1324.8 | 1524.8 | 1724.8 | 1924.8 | 2124.8 |
| 2500 | 2900 | 400, 500 | 16, 20 | | | 400 | 120 | 36.6 | 114.3 | 229.4 | 476.0 | 718.0 | 959.9 | 1201.9 | 1443.8 | 1685.7 | 1927.7 | 2169.6 | 2411.6 | 2589.6 |
| 3600 | 4200 | 500 | 20 | | | 500 | 120 | 58.8 | 183.8 | 368.7 | 765.1 | 1153.9 | 1542.8 | 1931.6 | 2320.5 | 2709.4 | 3012.0 | 3280.5 | 3505.0 | 3690.8 |

**Table 3251.3:** *KV coefficients ($m^3/h$) for Type 3251 Globe Valve: standard plug with flow divider ST 1, with eq. percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 1.45 | 1.7 | 15, 25, 40 | ½, 1, 1½ | ST 1 | Equal percentage | 12 | 15 | 0.031 | 0.039 | 0.049 | 0.076 | 0.11 | 0.17 | 0.23 | 0.34 | 0.48 | 0.72 | 1.08 | 1.74 | 2.8 |
| 2.2 | 2.6 | 15, 25, 40 | ½, 1, 1½ | | | 12 | 15 | 0.051 | 0.060 | 0.074 | 0.11 | 0.16 | 0.25 | 0.37 | 0.55 | 0.80 | 1.18 | 1.77 | 2.5 | 3.5 |
| 3.6 | 4.2 | 15, 25, 40, 50, 80 | ½, 1, 1½, 2, 3 | | | 24 | 15 | 0.078 | 0.093 | 0.11 | 0.17 | 0.25 | 0.35 | 0.50 | 0.70 | 1.06 | 1.64 | 2.6 | 4.3 | 6.3 |
| 5.7 | 7 | 25, 40, 50, 80 | 1, 1½, 2, 3 | | | 24 | 15 | 0.14 | 0.18 | 0.22 | 0.33 | 0.49 | 0.69 | 0.99 | 1.45 | 2.2 | 3.2 | 4.7 | 6.6 | 8.6 |
| 9 | 10.5 | 25, 40, 50, 80 | 1, 1½, 2, 3 | | | 24 | 15 | 0.21 | 0.28 | 0.36 | 0.56 | 0.81 | 1.13 | 1.54 | 2.2 | 3.1 | 4.5 | 6.6 | 9.3 | 10.6 |
| 14.5 | 17 | 40, 50, 80 | 1½, 2, 3 | | | 31 | 15 | 0.34 | 0.45 | 0.56 | 0.87 | 1.27 | 1.83 | 2.6 | 3.8 | 6.0 | 9.7 | 13.4 | 16.3 | 18.5 |
| 22 | 26 | 40, 50, 80, 100 | 1½, 2, 3, 4 | | | 38 | 15 | 0.40 | 0.53 | 0.66 | 0.97 | 1.44 | 2.2 | 3.9 | 6.9 | 11.0 | 15.0 | 18.8 | 22.2 | 24.8 |
| 36 | 42 | 50, 80, 100 | 2, 3, 4 | | | 50 | 30 | 0.63 | 0.85 | 1.15 | 1.79 | 2.6 | 3.7 | 5.5 | 8.4 | 12.4 | 18.5 | 26.6 | 35.4 | 42.3 |
| 57 | 67 | 80, 100, 150 | 3, 4, 6 | | | 63 | 30 | 1.2 | 1.3 | 1.5 | 2.2 | 3.4 | 5.1 | 7.5 | 11.9 | 18.1 | 28.0 | 40.3 | 52.6 | 59.9 |
| 90 | 105 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 1.4 | 1.7 | 2.1 | 3.5 | 5.7 | 9.3 | 14.7 | 23.5 | 36.4 | 54.6 | 70.6 | 81.8 | 90.9 |
| 144 | 170 | 100, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 2.6 | 3.5 | 4.8 | 7.6 | 11.4 | 16.9 | 28.7 | 47.7 | 69.8 | 91.5 | 113.9 | 132.4 | 147.7 |
| 225 | 265 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 4.1 | 5.6 | 7.2 | 11.8 | 18.2 | 26.9 | 38.3 | 54.7 | 85.3 | 137.3 | 179.0 | 206.7 | 225.6 |
| 320 | 375 | 150, 200, 250, 300, 350, 400 | 6, 8, 10, 12, 14, 16 | | | 150 | 60 | 5.8 | 7.5 | 10.3 | 16.1 | 24.1 | 35.4 | 51.5 | 81.8 | 137.1 | 208.8 | 271.4 | 318.1 | 348.3 |
| 560 | 650 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 9.4 | 14.9 | 20.0 | 33.8 | 66.8 | 122.3 | 207.1 | 304.7 | 390.1 | 463.2 | 522.0 | 560.0 | 581.8 |
| 900 | 1040 | 250, 300, 350, 400, 500 | 10, 12, 14, 16, 20 | | | 250 | 120 | 15.5 | 21.7 | 30.5 | 51.3 | 79.4 | 118.3 | 177.8 | 260.4 | 390.3 | 585.2 | 793.2 | 988.3 | 1080.4 |
| 1350 | 1560 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 300 | 120 | 20.1 | 31.0 | 43.7 | 73.4 | 113.5 | 169.2 | 254.3 | 372.4 | 558.1 | 836.9 | 1134.3 | 1413.3 | 1544.9 |
| 1800 | 2080 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 27.8 | 39.1 | 55.0 | 92.4 | 142.9 | 213.0 | 320.1 | 468.7 | 702.5 | 1053.4 | 1427.8 | 1779.0 | 1944.6 |
| 2250 | 2600 | 400, 500 | 16, 20 | | | 400 | 120 | 35.1 | 49.3 | 69.3 | 116.5 | 180.2 | 268.6 | 403.6 | 591.0 | 885.7 | 1328.2 | 1800.2 | 2243.0 | 2451.9 |
| 3200 | 3700 | 500 | 20 | | | 500 | 120 | 54.1 | 76.0 | 106.9 | 179.6 | 277.9 | 414.2 | 622.4 | 911.5 | 1366.0 | 2020.6 | 2611.8 | 3036.6 | 3361.9 |

**Table 3251.4:** *KV coefficients ($m^3/h$) for Type 3251 Globe Valve: standard plug with flow divider ST 1, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 1.45 | 1.7 | 15, 25, 40 | ½, 1, 1½ | ST 1 | Linear | 12 | 15 | 0.035 | 0.11 | 0.19 | 0.35 | 0.52 | 0.69 | 0.86 | 1.03 | 1.20 | 1.37 | 1.54 | 1.71 | 1.9 |
| 2.2 | 2.6 | 15, 25, 40 | ½, 1, 1½ | | | 12 | 15 | 0.042 | 0.16 | 0.29 | 0.53 | 0.80 | 1.06 | 1.32 | 1.58 | 1.85 | 2.1 | 2.4 | 2.6 | 2.9 |
| 3.6 | 4.2 | 15, 25, 40, 50, 80 | ½, 1, 1½, 2, 3 | | | 24 | 15 | 0.040 | 0.12 | 0.32 | 0.78 | 1.23 | 1.68 | 2.1 | 2.6 | 3.0 | 3.5 | 3.9 | 4.4 | 4.8 |
| 5.7 | 7 | 25, 40, 50, 80 | 1, 1½, 2, 3 | | | 24 | 15 | 0.097 | 0.31 | 0.66 | 1.34 | 2.0 | 2.7 | 3.4 | 4.1 | 4.8 | 5.5 | 6.2 | 6.8 | 7.5 |
| 9 | 10.5 | 25, 40, 50, 80 | 1, 1½, 2, 3 | | | 24 | 15 | 0.16 | 0.61 | 1.12 | 2.2 | 3.3 | 4.4 | 5.5 | 6.5 | 7.6 | 8.7 | 9.8 | 10.9 | 12.0 |
| 14.5 | 17 | 40, 50, 80 | 1½, 2, 3 | | | 31 | 15 | 0.19 | 0.95 | 1.79 | 3.5 | 5.2 | 7.0 | 8.7 | 10.4 | 12.1 | 13.9 | 15.6 | 17.3 | 19.1 |
| 22 | 26 | 40, 50, 80, 100 | 1½, 2, 3, 4 | | | 38 | 15 | 0.32 | 0.81 | 1.53 | 3.6 | 5.9 | 8.2 | 10.5 | 12.8 | 15.1 | 17.4 | 19.7 | 22.0 | 24.3 |
| 36 | 42 | 50, 80, 100 | 2, 3, 4 | | | 50 | 30 | 0.54 | 1.49 | 3.2 | 7.3 | 11.3 | 15.3 | 19.3 | 23.4 | 27.4 | 31.4 | 35.4 | 39.5 | 43.5 |
| 57 | 67 | 80, 100, 150 | 3, 4, 6 | | | 63 | 30 | 1.02 | 1.75 | 4.1 | 9.8 | 16.0 | 22.2 | 28.4 | 34.6 | 40.8 | 47.1 | 53.3 | 59.5 | 65.7 |
| 90 | 105 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 0.74 | 2.3 | 5.6 | 14.4 | 23.5 | 32.5 | 41.6 | 50.7 | 59.7 | 68.8 | 77.9 | 86.9 | 96.0 |
| 144 | 170 | 100, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 1.91 | 4.0 | 9.9 | 22.8 | 36.9 | 51.0 | 65.1 | 79.2 | 93.3 | 107.4 | 121.5 | 135.6 | 148.4 |
| 225 | 265 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 3.54 | 6.32 | 15.50 | 37.11 | 59.97 | 82.83 | 105.69 | 128.5 | 151.4 | 174.3 | 197.1 | 220.0 | 242.8 |
| 320 | 375 | 150, 200, 250, 300, 350, 400 | 6, 8, 10, 12, 14, 16 | | | 150 | 60 | 4.3 | 12.3 | 28.8 | 59.9 | 93.1 | 124.5 | 155.9 | 187.3 | 218.6 | 250.0 | 281.4 | 312.8 | 333.6 |
| 560 | 650 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 10.1 | 29.0 | 55.8 | 112.3 | 169.4 | 226.5 | 283.6 | 340.7 | 397.8 | 454.9 | 512.0 | 569.2 | 607.1 |
| 900 | 1040 | 250, 300, 350, 400, 500 | 10, 12, 14, 16, 20 | | | 250 | 120 | 15.0 | 27.7 | 69.3 | 166.3 | 268.8 | 371.2 | 473.7 | 576.1 | 678.5 | 781.0 | 883.4 | 985.9 | 1088.3 |
| 1350 | 1560 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 300 | 120 | 22.8 | 72.2 | 138.8 | 284.0 | 428.4 | 572.7 | 717.1 | 861.4 | 1005.8 | 1150.1 | 1294.5 | 1438.9 | 1544.9 |
| 1800 | 2080 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 30.2 | 59.7 | 127.8 | 298.8 | 482.8 | 666.8 | 850.8 | 1034.8 | 1218.8 | 1402.8 | 1586.8 | 1770.8 | 1954.8 |
| 2250 | 2600 | 400, 500 | 16, 20 | | | 400 | 120 | 36.6 | 114.3 | 218.4 | 437.9 | 660.5 | 883.1 | 1105.7 | 1328.3 | 1550.9 | 1773.5 | 1996.1 | 2218.7 | 2382.4 |
| 3200 | 3700 | 500 | 20 | | | 500 | 120 | 58.8 | 183.8 | 351.0 | 703.9 | 1061.6 | 1419.4 | 1777.1 | 2134.9 | 2492.6 | 2771.0 | 3018.0 | 3224.6 | 3395.6 |

**Table 3251.5:** *$K_V$ coefficients ($m^3/h$) for Type 3251 Globe Valve: standard plug with flow divider ST 2, with eq. percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.2 | 3.7 | 50, 80 | 2, 3 | ST 2 | Equal percentage | 24 | 15 | 0.078 | 0.093 | 0.114 | 0.170 | 0.25 | 0.35 | 0.50 | 0.70 | 1.06 | 1.63 | 2.60 | 4.24 | 6.3 |
| 5 | 6 | 50, 80 | 2, 3 | | | 24 | 15 | 0.14 | 0.18 | 0.22 | 0.33 | 0.49 | 0.69 | 0.99 | 1.45 | 2.2 | 3.1 | 4.6 | 6.6 | 8.5 |
| 8 | 9.5 | 50, 80 | 2, 3 | | | 24 | 15 | 0.21 | 0.28 | 0.36 | 0.56 | 0.81 | 1.13 | 1.54 | 2.2 | 3.1 | 4.4 | 6.5 | 9.2 | 10.5 |
| 13 | 15 | 50, 80 | 2, 3 | | | 31 | 15 | 0.34 | 0.45 | 0.56 | 0.87 | 1.27 | 1.83 | 2.6 | 3.8 | 6.0 | 9.7 | 13.3 | 16.2 | 18.3 |
| 20 | 23 | 50, 80, 100 | 2, 3, 4 | | | 38 | 15 | 0.40 | 0.53 | 0.66 | 0.97 | 1.44 | 2.2 | 3.9 | 6.9 | 10.9 | 14.9 | 18.7 | 22.0 | 24.5 |
| 32 | 37 | 50, 80, 100 | 2, 3, 4 | | | 50 | 30 | 0.63 | 0.85 | 1.15 | 1.79 | 2.6 | 3.7 | 5.5 | 8.4 | 12.4 | 18.4 | 26.4 | 35.0 | 41.8 |
| 50 | 60 | 80, 100, 150 | 3, 4, 6 | | | 63 | 30 | 1.2 | 1.3 | 1.5 | 2.2 | 3.4 | 5.1 | 7.5 | 11.9 | 18.1 | 27.8 | 40.0 | 52.0 | 59.2 |
| 80 | 95 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 1.4 | 1.7 | 2.1 | 3.5 | 5.7 | 9.3 | 14.7 | 23.0 | 36.5 | 53.5 | 67.7 | 76.9 | 82.8 |
| 125 | 145 | 100, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 2.6 | 3.5 | 4.8 | 7.6 | 11.4 | 16.9 | 28.7 | 46.9 | 69.6 | 88.6 | 107.4 | 121.6 | 131.4 |
| 200 | 235 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 4.1 | 5.6 | 7.2 | 11.8 | 18.2 | 26.9 | 38.3 | 54.4 | 84.4 | 133.5 | 171.0 | 193.7 | 205.7 |
| 290 | 335 | 150, 200, 250, 300, 350, 400 | 6, 8, 10, 12, 14, 16 | | | 150 | 60 | 5.8 | 7.5 | 10.3 | 16.1 | 24.1 | 35.4 | 51.5 | 80.5 | 135.9 | 200.9 | 254.1 | 290.5 | 311.6 |
| 500 | 580 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 9.4 | 14.9 | 20.0 | 31.2 | 61.8 | 113.1 | 191.5 | 281.8 | 360.7 | 428.3 | 482.7 | 517.9 | 538.0 |
| 800 | 950 | 250, 300, 350, 400, 500 | 10, 12, 14, 16, 20 | | | 250 | 120 | 15.5 | 21.7 | 30.5 | 51.3 | 79.4 | 118.3 | 177.8 | 256.2 | 387.1 | 563.2 | 742.6 | 902.4 | 966.6 |
| 1200 | 1400 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 300 | 120 | 20.1 | 31.0 | 43.7 | 73.4 | 113.5 | 169.2 | 254.3 | 366.4 | 553.5 | 805.4 | 1061.9 | 1290.4 | 1382.3 |
| 1600 | 1860 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 27.8 | 39.1 | 55.0 | 92.4 | 142.9 | 213.0 | 320.1 | 461.2 | 696.7 | 1013.8 | 1336.7 | 1624.3 | 1739.9 |
| 2000 | 2300 | 400, 500 | 16, 20 | | | 400 | 120 | 35.1 | 49.3 | 69.3 | 116.5 | 180.2 | 268.6 | 403.6 | 581.6 | 878.5 | 1278.2 | 1685.3 | 2047.9 | 2193.8 |

**Table 3251.6:** *KV coefficients ($m^3/h$) for Type 3251 Globe Valve: standard plug with flow divider ST 2, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.2 | 3.7 | 50, 80 | 2, 3 | ST 2 | Linear | 24 | 15 | 0.040 | 0.123 | 0.324 | 0.775 | 1.22 | 1.66 | 2.10 | 2.54 | 2.99 | 3.43 | 3.87 | 4.31 | 4.8 |
| 5 | 6 | 50, 80 | 2, 3 | | | 24 | 15 | 0.10 | 0.31 | 0.66 | 1.32 | 2.01 | 2.69 | 3.37 | 4.05 | 4.7 | 5.4 | 6.1 | 6.8 | 7.5 |
| 8 | 9.5 | 50, 80 | 2, 3 | | | 24 | 15 | 0.16 | 0.61 | 1.12 | 2.17 | 3.25 | 4.32 | 5.40 | 6.5 | 7.5 | 8.6 | 9.7 | 10.8 | 11.8 |
| 13 | 15 | 50, 80 | 2, 3 | | | 31 | 15 | 0.19 | 0.95 | 1.79 | 3.47 | 5.18 | 6.89 | 8.6 | 10.3 | 12.0 | 13.7 | 15.4 | 17.2 | 18.9 |
| 20 | 23 | 50, 80, 100 | 2, 3, 4 | | | 38 | 15 | 0.32 | 0.81 | 1.53 | 3.57 | 5.84 | 8.1 | 10.4 | 12.7 | 14.9 | 17.2 | 19.5 | 21.8 | 24.0 |
| 32 | 37 | 50, 80, 100 | 2, 3, 4 | | | 50 | 30 | 0.54 | 1.49 | 3.24 | 7.18 | 11.2 | 15.1 | 19.1 | 23.1 | 27.1 | 31.1 | 35.0 | 39.0 | 43.0 |
| 50 | 60 | 80, 100, 150 | 3, 4, 6 | | | 63 | 30 | 1.0 | 1.8 | 4.1 | 9.7 | 15.8 | 22.0 | 28.1 | 34.2 | 40.4 | 46.5 | 52.7 | 58.8 | 65.0 |
| 80 | 95 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 0.7 | 2.3 | 5.4 | 13.5 | 22.0 | 30.6 | 39.1 | 47.6 | 56.1 | 64.7 | 73.2 | 81.7 | 90.2 |
| 125 | 145 | 100, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 1.9 | 4.0 | 9.4 | 20.7 | 33.6 | 46.4 | 59.3 | 72.2 | 85.0 | 97.9 | 110.7 | 123.6 | 135.2 |
| 200 | 235 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 3.5 | 6.3 | 14.9 | 34.3 | 55.5 | 76.6 | 97.8 | 118.9 | 140.0 | 161.2 | 182.3 | 203.5 | 224.6 |
| 290 | 335 | 150, 200, 250, 300, 350, 400 | 6, 8, 10, 12, 14, 16 | | | 150 | 60 | 4.3 | 12.3 | 26.3 | 54.7 | 85.0 | 113.7 | 142.3 | 171.0 | 199.6 | 228.3 | 256.9 | 285.6 | 304.6 |
| 500 | 580 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 10.1 | 29.0 | 53.3 | 103.9 | 156.7 | 209.5 | 262.3 | 315.1 | 367.9 | 420.7 | 473.5 | 526.3 | 561.4 |
| 800 | 950 | 250, 300, 350, 400, 500 | 10, 12, 14, 16, 20 | | | 250 | 120 | 15.0 | 27.7 | 65.4 | 149.9 | 242.2 | 334.5 | 426.8 | 519.1 | 611.4 | 703.7 | 796.1 | 888.4 | 980.7 |
| 1200 | 1400 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 300 | 120 | 22.8 | 72.2 | 131.8 | 259.3 | 391.1 | 522.9 | 654.7 | 786.5 | 918.3 | 1050.1 | 1181.9 | 1313.7 | 1410.5 |
| 1600 | 1860 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 30.2 | 59.7 | 121.4 | 272.8 | 440.8 | 608.8 | 776.8 | 944.8 | 1112.8 | 1280.8 | 1448.8 | 1616.8 | 1784.8 |
| 2000 | 2300 | 400, 500 | 16, 20 | | | 400 | 120 | 36.6 | 114.3 | 207.4 | 399.9 | 603.1 | 806.3 | 1009.6 | 1212.8 | 1416.0 | 1619.3 | 1822.5 | 2025.7 | 2175.2 |

**Table 3251.7:** *KV coefficients ($m^3/h$) for Type 3251 Globe Valve: standard plug with flow divider ST 3, with eq. percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3 | 3.5 | 50, 80 | 2, 3 | ST 3 | Equal percentage | 24 | 15 | 0.078 | 0.093 | 0.11 | 0.17 | 0.25 | 0.35 | 0.50 | 0.70 | 1.06 | 1.62 | 2.6 | 4.2 | 6.2 |
| 4.8 | 5.6 | 50, 80 | 2, 3 | | | 24 | 15 | 0.14 | 0.18 | 0.22 | 0.33 | 0.49 | 0.69 | 0.99 | 1.45 | 2.2 | 3.1 | 4.6 | 6.5 | 8.4 |
| 7.5 | 9 | 50, 80 | 2, 3 | | | 24 | 15 | 0.21 | 0.28 | 0.36 | 0.56 | 0.81 | 1.13 | 1.54 | 2.2 | 3.1 | 4.4 | 6.5 | 9.1 | 10.4 |
| 12 | 14 | 80 | 3 | | | 31 | 15 | 0.34 | 0.45 | 0.56 | 0.87 | 1.27 | 1.83 | 2.6 | 3.8 | 6.0 | 9.6 | 13.2 | 16.0 | 18.1 |
| 20 | 23 | 80, 100 | 3, 4 | | | 38 | 15 | 0.40 | 0.53 | 0.66 | 0.97 | 1.44 | 2.2 | 3.9 | 6.9 | 10.9 | 14.8 | 18.5 | 21.8 | 24.2 |
| 30 | 35 | 80, 100 | 3, 4 | | | 50 | 30 | 0.63 | 0.85 | 1.15 | 1.79 | 2.6 | 3.7 | 5.5 | 8.4 | 12.3 | 18.3 | 26.2 | 34.6 | 41.3 |
| 47 | 55 | 100, 150 | 4, 6 | | | 63 | 30 | 1.20 | 1.34 | 1.5 | 2.2 | 3.4 | 5.1 | 7.5 | 11.9 | 18.0 | 27.7 | 39.6 | 51.4 | 58.4 |
| 75 | 90 | 150, 200, 250 | 6, 8, 10 | | | 80 | 30 | 1.4 | 1.7 | 2.1 | 3.5 | 5.7 | 9.3 | 14.7 | 22.9 | 36.2 | 52.3 | 65.3 | 73.2 | 78.0 |
| 120 | 140 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 100 | 30 | 2.6 | 3.5 | 4.8 | 7.6 | 11.4 | 16.9 | 28.7 | 46.5 | 68.4 | 84.7 | 100.0 | 109.7 | 116.2 |
| 190 | 220 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 4.1 | 5.6 | 7.2 | 11.8 | 18.2 | 26.9 | 38.3 | 54.0 | 82.9 | 127.3 | 158.3 | 172.7 | 178.7 |
| 270 | 315 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 150 | 60 | 5.8 | 7.5 | 10.3 | 16.1 | 24.1 | 35.4 | 51.5 | 80.0 | 134.0 | 193.3 | 238.9 | 266.3 | 280.9 |
| 480 | 560 | 250, 300, 350, 400 | 10, 12, 14, 16 | | | 200 | 60 | 9.4 | 14.9 | 17.3 | 28.3 | 56.0 | 102.6 | 173.7 | 255.5 | 327.1 | 388.5 | 437.8 | 469.7 | 488.0 |
| 750 | 880 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 250 | 120 | 15.5 | 21.7 | 30.5 | 51.3 | 79.4 | 118.3 | 177.8 | 252.6 | 375.9 | 520.3 | 654.0 | 752.0 | 792.9 |
| 1100 | 1280 | 350, 400, 500 | 14, 16, 20 | | | 300 | 120 | 20.1 | 31.0 | 43.7 | 73.4 | 113.5 | 169.2 | 254.3 | 362.3 | 540.9 | 757.2 | 962.4 | 1121.4 | 1188.0 |
| 1500 | 1730 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 27.8 | 39.1 | 55.0 | 92.4 | 142.9 | 213.0 | 320.1 | 456.6 | 682.4 | 958.7 | 1222.8 | 1430.9 | 1512.7 |
| 1900 | – | 500 | 20 | | | 400 | 120 | 35.1 | 49.3 | 69.3 | 116.5 | 180.2 | 268.6 | 403.6 | 576.2 | 862.2 | 1215.7 | 1556.1 | 1828.5 | 1928.5 |

**Table 3251.8:** *KV coefficients ($m^3/h$) for Type 3251 Globe Valve: standard plug with flow divider ST 3, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3 | 3.5 | 50, 80 | 2, 3 | ST 3 | Linear | 24 | 15 | 0.040 | 0.12 | 0.32 | 0.77 | 1.20 | 1.64 | 2.1 | 2.5 | 3.0 | 3.4 | 3.8 | 4.3 | 4.7 |
| 4.8 | 5.6 | 50, 80 | 2, 3 | | | 24 | 15 | 0.097 | 0.31 | 0.66 | 1.31 | 2.0 | 2.7 | 3.3 | 4.0 | 4.7 | 5.4 | 6.0 | 6.7 | 7.4 |
| 7.5 | 9 | 50, 80 | 2, 3 | | | 24 | 15 | 0.16 | 0.61 | 1.12 | 2.2 | 3.2 | 4.3 | 5.3 | 6.4 | 7.5 | 8.5 | 9.6 | 10.7 | 11.7 |
| 12 | 14 | 80 | 3 | | | 31 | 15 | 0.19 | 0.95 | 1.79 | 3.4 | 5.1 | 6.8 | 8.5 | 10.2 | 11.9 | 13.6 | 15.3 | 17.0 | 18.7 |
| 20 | 23 | 80, 100 | 3, 4 | | | 38 | 15 | 0.32 | 0.81 | 1.53 | 3.5 | 5.8 | 8.0 | 10.3 | 12.5 | 14.8 | 17.0 | 19.3 | 21.5 | 23.8 |
| 30 | 35 | 80, 100 | 3, 4 | | | 50 | 30 | 0.54 | 1.49 | 3.2 | 7.1 | 11.0 | 15.0 | 18.9 | 22.9 | 26.8 | 30.7 | 34.7 | 38.6 | 42.5 |
| 47 | 55 | 100, 150 | 4, 6 | | | 63 | 30 | 1.02 | 1.75 | 4.1 | 9.6 | 15.6 | 21.7 | 27.8 | 33.8 | 39.9 | 46.0 | 52.1 | 58.1 | 64.2 |
| 75 | 90 | 150, 200, 250 | 6, 8, 10 | | | 80 | 30 | 0.74 | 2.3 | 5.3 | 12.8 | 20.9 | 29.0 | 37.1 | 45.2 | 53.3 | 61.3 | 69.4 | 77.5 | 85.6 |
| 120 | 140 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 100 | 30 | 1.91 | 4.0 | 8.9 | 19.0 | 30.7 | 42.5 | 54.2 | 66.0 | 77.7 | 89.5 | 101.3 | 113.0 | 123.7 |
| 190 | 220 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 3.5 | 6.3 | 14.1 | 31.1 | 50.2 | 69.4 | 88.5 | 107.7 | 126.8 | 145.9 | 165.1 | 184.2 | 203.4 |
| 270 | 315 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 150 | 60 | 4.3 | 12.3 | 24.1 | 50.1 | 77.9 | 104.2 | 130.5 | 156.7 | 183.0 | 209.3 | 235.5 | 261.8 | 279.2 |
| 480 | 560 | 250, 300, 350, 400 | 10, 12, 14, 16 | | | 200 | 60 | 10.1 | 29.0 | 49.8 | 91.8 | 138.5 | 185.1 | 231.8 | 278.5 | 325.1 | 371.8 | 418.4 | 465.1 | 496.1 |
| 750 | 880 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 250 | 120 | 15.0 | 27.7 | 60.1 | 127.9 | 206.7 | 285.5 | 364.4 | 443.2 | 522.0 | 600.8 | 679.6 | 758.4 | 837.2 |
| 1100 | 1280 | 350, 400, 500 | 14, 16, 20 | | | 300 | 120 | 22.8 | 72.2 | 120.4 | 219.2 | 330.6 | 442.0 | 553.4 | 664.8 | 776.2 | 887.6 | 999.0 | 1110.4 | 1192.2 |
| 1500 | 1730 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 30.2 | 59.7 | 113.3 | 240.3 | 388.3 | 536.3 | 684.3 | 832.3 | 980.3 | 1128.3 | 1276.3 | 1424.3 | 1572.4 |
| 1900 | - | 500 | 20 | | | 400 | 120 | 36.6 | 114.3 | 196.4 | 361.8 | 545.6 | 729.5 | 913.4 | 1097.3 | 1281.2 | 1465.0 | 1648.9 | 1832.8 | 1968.1 |

**Table 3251.9:** *KV coefficients ($m^3/h$) for Type 3251 Globe Valve: AC-1 trim with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 22 | 26 | 50, 80, 100 | 2, 3, 4 | AC-1 trim | Equal percentage | 38 | 15 | 0.35 | 0.42 | 0.55 | 0.9 | 1.5 | 2.3 | 3.4 | 5.0 | 7.8 | 12.5 | 17.1 | 21.4 | 24.5 |
| 35 | 40 | 50, 80 | 2, 3 | | | 50 | 30 | 0.57 | 0.65 | 0.82 | 1.4 | 2.4 | 3.7 | 5.7 | 8.4 | 13.0 | 23.0 | 30.9 | 36.0 | 39.8 |
| 38 | 45 | 100 | 4 | | | 50 | 30 | 0.69 | 0.85 | 1.1 | 1.7 | 2.7 | 4.0 | 5.9 | 8.7 | 13.1 | 19.6 | 28.8 | 39.7 | 50.2 |
| 50 | 60 | 80 | 3 | | | 63 | 30 | 0.92 | 1.1 | 1.4 | 2.3 | 3.6 | 5.3 | 7.8 | 11.5 | 17.3 | 25.7 | 37.9 | 51.1 | 63.7 |
| 55 | 65 | 100 | 4 | | | 63 | 30 | 1.0 | 1.2 | 1.6 | 2.5 | 3.9 | 5.8 | 8.5 | 12.6 | 19.0 | 28.3 | 41.7 | 57.4 | 72.7 |
| 60 | 70 | 80 | 3 | | | 80 | 30 | 1.2 | 1.4 | 1.7 | 2.8 | 4.3 | 6.3 | 9.4 | 14.0 | 20.7 | 32.2 | 51.4 | 65.3 | 75.3 |
| 70 | 80 | 80 | 3 | | | 80 | 30 | 1.5 | 2.0 | 2.6 | 4.1 | 6.4 | 9.4 | 13.8 | 19.7 | 28.3 | 40.3 | 56.4 | 72.9 | 86.7 |
| 75 | 90 | 100 | 4 | | | 80 | 30 | 1.4 | 1.7 | 2.1 | 3.4 | 5.3 | 7.9 | 11.7 | 17.2 | 25.9 | 38.6 | 56.9 | 76.7 | 95.5 |
| 75 | 90 | 100 | 4 | | | 100 | 30 | 1.5 | 1.8 | 2.2 | 3.6 | 5.5 | 8.1 | 12.2 | 18.1 | 26.7 | 41.6 | 66.4 | 84.5 | 97.4 |
| 95 | 110 | 150 | 6 | | | 80 | 30 | 1.7 | 2.1 | 2.7 | 4.3 | 6.7 | 10.1 | 14.8 | 21.8 | 32.8 | 48.9 | 72.1 | 99.1 | 125.5 |
| 100 | 120 | 100 | 4 | | | 100 | 30 | 2.1 | 3.0 | 4.0 | 6.7 | 10.5 | 15.9 | 22.9 | 32.8 | 47.7 | 65.4 | 84.0 | 98.0 | 105.6 |
| 145 | 170 | 150 | 6 | | | 100 | 30 | 2.6 | 3.2 | 4.1 | 6.6 | 10.3 | 15.3 | 22.5 | 33.3 | 50.0 | 74.7 | 110.0 | 148.3 | 184.6 |
| 155 | 180 | 200 | 8 | | | 100 | 30 | 2.8 | 3.5 | 4.4 | 7.1 | 11.0 | 16.4 | 24.1 | 35.6 | 53.5 | 79.8 | 117.6 | 161.7 | 204.8 |
| 205 | 240 | 150 | 6 | | | 125 | 60 | 3.6 | 4.4 | 5.5 | 8.9 | 13.9 | 20.6 | 30.3 | 44.8 | 67.3 | 100.4 | 147.9 | 199.5 | 248.3 |
| 205 | 240 | 150 | 6 | | | 150 | 60 | 4.0 | 4.8 | 6.0 | 9.5 | 14.7 | 21.7 | 32.5 | 48.4 | 71.2 | 111.1 | 177.1 | 225.3 | 259.8 |
| 230 | 270 | 200 | 8 | | | 125 | 60 | 4.2 | 5.1 | 6.5 | 10.5 | 16.3 | 24.3 | 35.7 | 52.8 | 79.4 | 118.4 | 174.5 | 240.0 | 303.9 |
| 250 | 290 | 150 | 6 | | | 150 | 60 | 5.2 | 6.8 | 9.0 | 15.2 | 23.8 | 36.1 | 53.5 | 78.2 | 111.5 | 162.5 | 214.5 | 247.4 | 266.3 |
| 305 | 360 | 200 | 8 | | | 150 | 60 | 5.6 | 6.8 | 8.6 | 13.9 | 21.7 | 32.3 | 47.4 | 70.1 | 105.3 | 157.0 | 228.7 | 318.3 | 402.8 |
| 360 | 420 | 200 | 8 | | | 200 | 60 | 6.0 | 7.3 | 9.0 | 14.3 | 22.0 | 32.6 | 48.8 | 72.6 | 106.8 | 166.6 | 265.7 | 358.0 | 413.7 |
| 480 | 560 | 200 | 8 | | | 200 | 60 | 10.2 | 12.3 | 16.0 | 25.6 | 39.8 | 60.2 | 89.3 | 136.6 | 219.5 | 315.3 | 395.5 | 453.2 | 496.3 |

**Table 3251.10:** *KV coefficients ($m^3/h$) for Type 3251 Globe Valve: AC-3 trim with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.4 | 0.5 | 25 | 1 | AC-3 trim | Equal percentage | 12 | 7.5 | 0.0021 | 0.0023 | 0.0027 | 0.0051 | 0.012 | 0.024 | 0.043 | 0.073 | 0.12 | 0.19 | 0.28 | 0.44 | 0.84 |
| 0.63 | 0.75 | 25, 40 | 1, 1½ | | | 16 | 7.5 | 0.011 | 0.013 | 0.016 | 0.025 | 0.039 | 0.066 | 0.10 | 0.15 | 0.23 | 0.33 | 0.48 | 0.69 | 1.1 |
| 1 | 1.2 | 25, 40 | 1, 1½ | | | 18 | 7.5 | 0.021 | 0.025 | 0.030 | 0.042 | 0.061 | 0.098 | 0.15 | 0.22 | 0.31 | 0.43 | 0.61 | 0.97 | 1.8 |
| 1 | 1.2 | 50 | 2 | | | 18 | 15 | 0.021 | 0.024 | 0.028 | 0.040 | 0.06 | 0.10 | 0.15 | 0.24 | 0.35 | 0.51 | 0.73 | 1.1 | 1.7 |
| 1.6 | 2 | 25, 40 | 1, 1½ | | | 22 | 7.5 | 0.034 | 0.041 | 0.048 | 0.067 | 0.098 | 0.16 | 0.24 | 0.36 | 0.50 | 0.69 | 0.98 | 1.6 | 2.9 |
| 1.6 | 2 | 50 | 2 | | | 22 | 15 | 0.034 | 0.038 | 0.044 | 0.063 | 0.099 | 0.16 | 0.25 | 0.38 | 0.56 | 0.81 | 1.2 | 1.7 | 2.7 |
| 2.5 | 3 | 25 | 1 | | | 22 | 7.5 | 0.022 | 0.027 | 0.039 | 0.080 | 0.15 | 0.24 | 0.37 | 0.56 | 0.82 | 1.3 | 2.1 | 2.7 | 3.2 |
| 2.5 | 3 | 40 | 1½ | | | 24 | 7.5 | 0.024 | 0.028 | 0.039 | 0.080 | 0.15 | 0.24 | 0.37 | 0.57 | 0.86 | 1.4 | 2.0 | 2.7 | 3.3 |
| 2.5 | 3 | 50, 80 | 2, 3 | | | 24 | 15 | 0.043 | 0.048 | 0.056 | 0.092 | 0.16 | 0.25 | 0.39 | 0.60 | 0.89 | 1.3 | 1.8 | 2.7 | 4.3 |
| 3.5 | 4 | 25 | 1 | | | 22 | 7.5 | 0.050 | 0.067 | 0.089 | 0.16 | 0.25 | 0.37 | 0.58 | 0.86 | 1.3 | 1.9 | 2.7 | 3.4 | 3.7 |
| 4 | 5 | 40 | 1½ | | | 31 | 7.5 | 0.066 | 0.077 | 0.093 | 0.14 | 0.22 | 0.34 | 0.50 | 0.75 | 1.1 | 1.6 | 2.6 | 3.9 | 5.3 |
| 4 | 5 | 50, 80, 100 | 2, 3, 4 | | | 31 | 15 | 0.050 | 0.067 | 0.090 | 0.15 | 0.25 | 0.40 | 0.62 | 0.95 | 1.4 | 2.1 | 3.0 | 4.4 | 6.9 |
| 6.3 | 7.5 | 40 | 1½ | | | 31 | 7.5 | 0.087 | 0.098 | 0.12 | 0.20 | 0.32 | 0.49 | 0.74 | 1.1 | 1.8 | 2.9 | 4.5 | 5.9 | 6.9 |
| 6.3 | 7.5 | 50, 80, 100, 150 | 2, 3, 4, 6 | | | 31 | 15 | 0.13 | 0.21 | 0.28 | 0.47 | 0.70 | 0.99 | 1.41 | 2.0 | 2.6 | 3.6 | 4.9 | 6.8 | 8.6 |
| 10 | 12 | 50, 80, 100, 150 | 2, 3, 4, 6 | | | 38 | 15 | 0.17 | 0.18 | 0.21 | 0.35 | 0.60 | 0.94 | 1.5 | 2.3 | 3.4 | 4.9 | 7.0 | 10.4 | 16.5 |
| 12 | 14 | 80, 100, 150 | 3, 4, 6 | | | 38 | 15 | 0.20 | 0.22 | 0.26 | 0.42 | 0.71 | 1.1 | 1.8 | 2.7 | 4.1 | 5.9 | 8.4 | 12.5 | 19.8 |
| 16 | 20 | 80, 100 | 3, 4 | | | 50 | 15 | 0.22 | 0.28 | 0.37 | 0.61 | 0.96 | 1.5 | 2.2 | 3.3 | 4.9 | 7.2 | 10.5 | 15.6 | 18.2 |
| 16 | 20 | 150, 200 | 6, 8 | | | 50 | 30 | 0.34 | 0.38 | 0.44 | 0.63 | 0.99 | 1.6 | 2.5 | 3.8 | 5.6 | 8.1 | 11.7 | 17.3 | 27.4 |
| 25 | 30 | 80, 100 | 3, 4 | | | 63 | 15 | 0.38 | 0.50 | 0.64 | 0.99 | 1.5 | 2.3 | 3.5 | 5.7 | 9.1 | 13.8 | 19.2 | 24.3 | 27.5 |
| 25 | 30 | 150, 200 | 6, 8 | | | 63 | 30 | 0.54 | 0.60 | 0.69 | 0.99 | 1.5 | 2.5 | 3.8 | 5.9 | 8.8 | 12.7 | 18.3 | 27.1 | 42.9 |
| 40 | 47 | 100 | 4 | | | 80 | 15 | 0.66 | 0.73 | 0.85 | 1.4 | 2.4 | 3.8 | 5.9 | 9.1 | 13.6 | 19.6 | 28.1 | 41.7 | 62.0 |
| 40 | 47 | 150, 200 | 6, 8 | | | 80 | 30 | 0.86 | 0.96 | 1.1 | 1.6 | 2.5 | 3.9 | 6.1 | 9.4 | 14.1 | 20.4 | 29.2 | 43.4 | 68.6 |
| 63 | 75 | 150, 200 | 6, 8 | | | 100 | 30 | 1.0 | 1.1 | 1.3 | 2.2 | 3.8 | 5.9 | 9.3 | 14.3 | 21.4 | 30.9 | 44.3 | 65.7 | 97.6 |
| 80 | 95 | 200 | 8 | | | 100 | 30 | 1.3 | 1.5 | 1.7 | 2.8 | 4.8 | 7.6 | 11.8 | 18.1 | 27.1 | 39.2 | 56.2 | 83.4 | 124.0 |

**Table 3251.11:** *KV coefficients ($m^3/h$) for Type 3251 Globe Valve: AC-3 trim with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.4 | 0.5 | 25 | 1 | AC-3 trim | Linear | 12 | 7.5 | 0.0062 | 0.020 | 0.042 | 0.086 | 0.13 | 0.17 | 0.22 | 0.26 | 0.30 | 0.35 | 0.39 | 0.43 | 0.47 |
| 0.63 | 0.75 | 25, 40 | 1, 1½ | | | 16 | 7.5 | 0.0097 | 0.031 | 0.066 | 0.14 | 0.20 | 0.27 | 0.34 | 0.41 | 0.48 | 0.54 | 0.61 | 0.68 | 0.75 |
| 1 | 1.2 | 25, 40 | 1, 1½ | | | 18 | 7.5 | 0.014 | 0.045 | 0.094 | 0.19 | 0.29 | 0.39 | 0.49 | 0.58 | 0.68 | 0.78 | 0.88 | 0.97 | 1.1 |
| 1 | 1.2 | 50 | 2 | | | 18 | 15 | 0.015 | 0.049 | 0.10 | 0.21 | 0.32 | 0.43 | 0.54 | 0.65 | 0.76 | 0.86 | 0.97 | 1.1 | 1.2 |
| 1.6 | 2 | 25, 40 | 1, 1½ | | | 22 | 7.5 | 0.023 | 0.074 | 0.16 | 0.32 | 0.48 | 0.64 | 0.80 | 0.96 | 1.1 | 1.3 | 1.4 | 1.6 | 1.8 |
| 1.6 | 2 | 50 | 2 | | | 22 | 15 | 0.025 | 0.079 | 0.17 | 0.34 | 0.52 | 0.69 | 0.86 | 1.0 | 1.2 | 1.4 | 1.6 | 1.7 | 1.9 |
| 2.5 | 3 | 25 | 1 | | | 22 | 7.5 | 0.036 | 0.12 | 0.25 | 0.51 | 0.76 | 1.0 | 1.3 | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.8 |
| 2.5 | 3 | 40 | 1½ | | | 24 | 7.5 | 0.037 | 0.12 | 0.25 | 0.52 | 0.78 | 1.0 | 1.3 | 1.6 | 1.8 | 2.1 | 2.4 | 2.6 | 2.9 |
| 2.5 | 3 | 50, 80 | 2, 3 | | | 24 | 15 | 0.038 | 0.12 | 0.26 | 0.54 | 0.81 | 1.1 | 1.3 | 1.6 | 1.9 | 2.2 | 2.4 | 2.7 | 3.0 |
| 3.5 | 4 | 25 | 1 | | | 22 | 7.5 | 0.048 | 0.15 | 0.32 | 0.66 | 1.0 | 1.3 | 1.7 | 2.0 | 2.3 | 2.7 | 3.0 | 3.3 | 3.7 |
| 4 | 5 | 40 | 1½ | | | 31 | 7.5 | 0.057 | 0.18 | 0.38 | 0.79 | 1.2 | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 | 3.6 | 4.0 | 4.4 |
| 4 | 5 | 50, 80, 100 | 2, 3, 4 | | | 31 | 15 | 0.062 | 0.20 | 0.42 | 0.86 | 1.3 | 1.7 | 2.2 | 2.6 | 3.0 | 3.5 | 3.9 | 4.3 | 4.7 |
| 6.3 | 7.5 | 40 | 1½ | | | 31 | 7.5 | 0.085 | 0.27 | 0.58 | 1.2 | 1.8 | 2.4 | 3.0 | 3.6 | 4.2 | 4.8 | 5.4 | 6.0 | 6.6 |
| 6.3 | 7.5 | 50, 80, 100, 150 | 2, 3, 4, 6 | | | 31 | 15 | 0.097 | 0.31 | 0.66 | 1.4 | 2.0 | 2.7 | 3.4 | 4.1 | 4.8 | 5.4 | 6.1 | 6.8 | 7.5 |
| 10 | 12 | 50, 80, 100, 150 | 2, 3, 4, 6 | | | 38 | 15 | 0.15 | 0.48 | 1.0 | 2.1 | 3.1 | 4.2 | 5.2 | 6.3 | 7.3 | 8.4 | 9.4 | 10.5 | 11.5 |
| 12 | 14 | 80, 100, 150 | 3, 4, 6 | | | 38 | 15 | 0.18 | 0.57 | 1.2 | 2.5 | 3.7 | 5.0 | 6.3 | 7.5 | 8.8 | 10.0 | 11.3 | 12.5 | 13.8 |
| 16 | 20 | 80, 100 | 3, 4 | | | 50 | 15 | 0.22 | 0.72 | 1.5 | 3.1 | 4.7 | 6.3 | 7.8 | 9.4 | 11.0 | 12.5 | 14.1 | 15.7 | 17.2 |
| 16 | 20 | 150, 200 | 6, 8 | | | 50 | 30 | 0.25 | 0.79 | 1.7 | 3.4 | 5.2 | 6.9 | 8.6 | 10.4 | 12.1 | 13.8 | 15.5 | 17.3 | 19.0 |
| 25 | 30 | 80, 100 | 3, 4 | | | 63 | 15 | 0.34 | 1.1 | 2.3 | 4.8 | 7.2 | 9.6 | 12.0 | 14.4 | 16.8 | 19.2 | 21.6 | 24.0 | 26.4 |
| 25 | 30 | 150, 200 | 6, 8 | | | 63 | 30 | 0.38 | 1.2 | 2.6 | 5.4 | 8.1 | 10.8 | 13.5 | 16.2 | 18.9 | 21.6 | 24.3 | 27.0 | 29.7 |
| 40 | 47 | 100 | 4 | | | 80 | 15 | 0.60 | 1.9 | 4.0 | 8.3 | 12.5 | 16.7 | 20.9 | 25.1 | 29.2 | 33.4 | 37.6 | 41.8 | 46.0 |
| 40 | 47 | 150, 200 | 6, 8 | | | 80 | 30 | 0.62 | 2.0 | 4.2 | 8.6 | 12.9 | 17.2 | 21.6 | 25.9 | 30.2 | 34.5 | 38.8 | 43.2 | 47.5 |
| 63 | 75 | 150, 200 | 6, 8 | | | 100 | 30 | 0.94 | 3.0 | 6.4 | 13.1 | 19.7 | 26.3 | 32.9 | 39.5 | 46.1 | 52.6 | 59.2 | 65.8 | 72.4 |
| 80 | 95 | 200 | 8 | | | 100 | 30 | 1.2 | 3.8 | 8.1 | 16.6 | 25.0 | 33.4 | 41.7 | 50.1 | 58.5 | 66.9 | 75.2 | 83.6 | 92.0 |

**Table 3251.12:** *$K_V$ coefficients ($m^3/h$) for Type 3251 Globe Valve: perforated plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 4 | 5 | 25, 40, 50, 80 | 1, 1½, 2, 3 | Perforated plug | Equal percentage | 24 | 15 | 0.028 | 0.075 | 0.12 | 0.18 | 0.26 | 0.39 | 0.58 | 0.86 | 1.3 | 1.8 | 2.7 | 4.1 | 5.4 |
| 6.3 | 7.5 | 25, 40, 50, 80 | 1, 1½, 2, 3 | | | 24 | 15 | 0.063 | 0.14 | 0.19 | 0.28 | 0.44 | 0.62 | 0.92 | 1.5 | 2.2 | 3.2 | 4.5 | 5.8 | 6.5 |
| 10 | 12 | 40, 50, 80 | 1½, 2, 3 | | | 31 | 15 | 0.18 | 0.19 | 0.22 | 0.33 | 0.57 | 0.90 | 1.5 | 2.4 | 4.1 | 6.5 | 8.9 | 10.9 | 12.8 |
| 16 | 20 | 40, 50, 80, 100 | 1½, 2, 3, 4 | | | 38 | 15 | 0.28 | 0.44 | 0.59 | 0.95 | 1.3 | 1.9 | 2.8 | 4.3 | 7.1 | 10.0 | 13.0 | 15.8 | 18.3 |
| 25 | 30 | 50, 80, 100 | 2, 3, 4 | | | 50 | 15 | 0.47 | 0.80 | 1.1 | 1.5 | 2.2 | 3.4 | 5.9 | 9.6 | 13.8 | 17.9 | 21.9 | 25.7 | 29.2 |
| 36 | 42 | 50, 80, 100 | 2, 3, 4 | | | 50 | 30 | 0.36 | 0.91 | 1.2 | 1.9 | 3.0 | 4.7 | 7.8 | 12.3 | 17.7 | 24.3 | 30.8 | 36.0 | 40.0 |
| 54 | 62 | 80, 100, 150 | 3, 4, 6 | | | 63 | 30 | 0.54 | 0.81 | 1.0 | 1.6 | 2.9 | 4.9 | 8.2 | 14.8 | 23.8 | 34.7 | 46.3 | 54.6 | 59.4 |
| 63 | 75 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 0.63 | 1.0 | 1.4 | 2.6 | 4.1 | 6.0 | 8.9 | 14.0 | 25.4 | 40.5 | 53.6 | 64.1 | 72.5 |
| 80 | 95 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 0.80 | 1.0 | 1.3 | 2.2 | 4.1 | 9.7 | 19.6 | 36.9 | 51.8 | 64.8 | 76.3 | 86.0 | 92.7 |
| 100 | 120 | 100, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 1.0 | 1.3 | 1.8 | 3.2 | 5.7 | 9.6 | 15.8 | 26.1 | 40.8 | 59.4 | 81.9 | 100.1 | 110.9 |
| 160 | 190 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 1.6 | 2.0 | 2.7 | 5.7 | 10.0 | 15.4 | 22.7 | 33.8 | 50.1 | 80.9 | 124.1 | 162.4 | 193.1 |
| 250 | 290 | 150, 200, 250, 300, 350, 400 | 6, 8, 10, 12, 14, 16 | | | 150 | 60 | 2.5 | 3.6 | 4.9 | 9.1 | 15.3 | 24.1 | 37.0 | 66.9 | 111.3 | 165.4 | 215.5 | 250.7 | 278.5 |
| 360 | 420 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 3.6 | 4.6 | 6.0 | 11.0 | 17.7 | 31.0 | 54.8 | 94.0 | 151.0 | 218.0 | 292.0 | 358.5 | 394.6 |
| 420 | 485 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 4.2 | 5.6 | 8.4 | 19.7 | 53.3 | 100.0 | 149.0 | 203.0 | 260.9 | 322.7 | 389.0 | 459.2 | 497.0 |
| 630 | 735 | 250, 300, 350, 400, 500 | 10, 12, 14, 16, 20 | | | 250 | 120 | 6.3 | 7.0 | 9.1 | 18.4 | 33.7 | 55.2 | 86.6 | 136.0 | 232.0 | 369.0 | 522.0 | 668.5 | 712.0 |
| 1000 | 1150 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 300 | 120 | 10.0 | 11.4 | 14.6 | 28.4 | 53.2 | 87.2 | 141.6 | 250.0 | 429.0 | 647.0 | 861.0 | 1020.8 | 1123.1 |
| 1350 | 1560 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 13.0 | 14.0 | 16.5 | 37.5 | 72.6 | 123.8 | 241.0 | 414.0 | 620.0 | 861.0 | 1152.0 | 1397.0 | 1541.2 |
| 1650 | 1900 | 400, 500 | 16, 20 | | | 400 | 120 | 16.5 | 18.0 | 22.1 | 50.1 | 91.6 | 157.9 | 321.8 | 596.0 | 894.0 | 1179.0 | 1432.0 | 1665.1 | 1826.3 |
| 2500 | 2900 | 500 | 20 | | | 500 | 120 | 25.0 | 28.0 | 38.3 | 89.3 | 157.0 | 296.0 | 651.0 | 1045.0 | 1430.0 | 1814.0 | 2177.9 | 2459.9 | 2691.1 |

**Table 3251.13:** *KV coefficients ($m^3/h$) for Type 3251 Globe Valve: perforated plug without flow divider, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 4 | 5 | 25, 40, 50, 80 | 1, 1½,2, 3 | Perforated plug | Linear | 24 | 15 | 0.040 | 0.25 | 0.42 | 0.78 | 1.2 | 1.6 | 2.1 | 2.5 | 3.0 | 3.6 | 4.2 | 4.9 | 5.5 |
| 6.3 | 7.5 | 25, 40, 50, 80 | 1, 1½,2, 3 | | | 24 | 15 | 0.073 | 0.43 | 0.73 | 1.3 | 2.0 | 2.6 | 3.2 | 3.8 | 4.5 | 5.2 | 5.8 | 6.5 | 7.2 |
| 10 | 12 | 40, 50, 80 | 1½, 2, 3 | | | 31 | 15 | 0.10 | 0.53 | 0.95 | 1.8 | 2.6 | 3.6 | 4.7 | 5.8 | 7.0 | 8.3 | 9.8 | 11.1 | 12.2 |
| 16 | 20 | 40, 50, 80 | 1½, 2, 3 | | | 31 | 15 | 0.28 | 1.5 | 2.6 | 4.7 | 6.8 | 8.9 | 10.8 | 12.3 | 13.5 | 14.7 | 15.6 | 16.5 | 17.3 |
| 25 | 30 | 40, 50, 80, 100 | 1½, 2, 3, 4 | | | 38 | 15 | 0.006 | 1.1 | 2.5 | 5.9 | 9.1 | 12.3 | 15.2 | 18.0 | 20.1 | 22.0 | 23.4 | 24.8 | 26.0 |
| 40 | 47 | 50, 80, 100 | 2, 3, 4 | | | 50 | 30 | 0.53 | 2.6 | 4.7 | 9.3 | 14.6 | 20.5 | 26.3 | 31.8 | 36.6 | 40.7 | 44.1 | 46.8 | 48.5 |
| 63 | 75 | 80, 100, 150 | 3, 4, 6 | | | 63 | 30 | 0.63 | 3.0 | 5.6 | 11.9 | 18.3 | 25.7 | 33.3 | 41.9 | 49.5 | 56.2 | 62.0 | 65.8 | 68.0 |
| 100 | 120 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 1.0 | 6.9 | 13.6 | 26.1 | 37.6 | 48.2 | 58.9 | 68.2 | 77.3 | 85.8 | 93.2 | 99.1 | 103.9 |
| 130 | 150 | 100, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 0.54 | 5.5 | 12.1 | 27.1 | 42.6 | 58.0 | 72.1 | 85.2 | 97.2 | 108.9 | 118.9 | 128.9 | 138.4 |
| 250 | 290 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 2.4 | 13.0 | 25.9 | 57.6 | 88.2 | 117.7 | 146.7 | 173.8 | 200.4 | 225.6 | 248.3 | 268.3 | 286.9 |
| 320 | 375 | 150, 200, 250, 300, 350, 399 | 6, 8, 10, 12, 14, 16 | | | 150 | 60 | 3.2 | 16.5 | 31.8 | 67.2 | 105.8 | 148.8 | 191.7 | 230.9 | 264.3 | 291.2 | 312.2 | 328.2 | 340.6 |
| 500 | 580 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 7.5 | 19.2 | 43.0 | 106.3 | 172.1 | 234.4 | 294.3 | 349.4 | 397.0 | 439.1 | 473.6 | 499.7 | 520.0 |
| 900 | 1040 | 250, 300, 350, 400, 500 | 10, 12, 14, 16, 20 | | | 250 | 120 | 9.0 | 45.0 | 91.7 | 197.0 | 306.0 | 414.0 | 522.0 | 627.0 | 721.0 | 807.0 | 882.1 | 938.3 | 968.0 |
| 1300 | 1500 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 300 | 120 | 13.0 | 112.2 | 216.0 | 399.0 | 565.0 | 726.0 | 878.0 | 1013.0 | 1123.0 | 1211.0 | 1280.0 | 1326.2 | 1354.3 |
| 1700 | 2000 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 17.0 | 88.0 | 167.8 | 354.0 | 556.0 | 776.5 | 1011.0 | 1215.0 | 1384.0 | 1537.0 | 1669.0 | 1755.0 | 1789.3 |
| 2100 | 2450 | 400, 500 | 16, 20 | | | 400 | 120 | 21.0 | 173.4 | 328.1 | 608.0 | 875.0 | 1149.0 | 1403.0 | 1635.0 | 1830.0 | 1978.8 | 2094.8 | 2186.0 | 2222.3 |
| 3200 | 3700 | 500 | 20 | | | 500 | 120 | 32.0 | 226.2 | 421.5 | 851.4 | 1257.6 | 1635.3 | 1976.5 | 2286.1 | 2554.8 | 2792.1 | 2998.1 | 3163.9 | 3231.5 |

**Table 3251.14:** *$K_V$ coefficients ($m^3/h$) for Type 3251 Globe Valve: perforated plug with flow divider ST 1, with eq. percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.6 | 4.2 | 25, 40, 50, 80 | 1, 1½,2, 3 | Perforated plug and ST 1 | Equal percentage | 24 | 15 | 0.028 | 0.075 | 0.12 | 0.18 | 0.26 | 0.39 | 0.58 | 0.86 | 1.3 | 1.8 | 2.7 | 4.1 | 5.4 |
| 5.7 | 7 | 25, 40, 50, 80 | 1, 1½,2, 3 | | | 24 | 15 | 0.063 | 0.14 | 0.19 | 0.28 | 0.44 | 0.62 | 0.92 | 1.5 | 2.2 | 3.2 | 4.5 | 5.8 | 6.4 |
| 9 | 10.5 | 40, 50, 80 | 1½, 2, 3 | | | 31 | 15 | 0.18 | 0.19 | 0.22 | 0.33 | 0.57 | 0.90 | 1.5 | 2.4 | 4.1 | 6.5 | 8.8 | 10.8 | 12.6 |
| 14.5 | 17 | 40, 50, 80, 100 | 1½, 2, 3, 4 | | | 38 | 15 | 0.28 | 0.44 | 0.59 | 0.95 | 1.3 | 1.9 | 2.8 | 4.3 | 7.0 | 9.9 | 12.9 | 15.6 | 18.1 |
| 22 | 26 | 50, 80, 100 | 2, 3, 4 | | | 50 | 15 | 0.47 | 0.80 | 1.06 | 1.5 | 2.2 | 3.4 | 5.9 | 9.6 | 13.5 | 17.3 | 20.9 | 24.1 | 27.3 |
| 32 | 37 | 50, 80, 100 | 2, 3, 4 | | | 50 | 30 | 0.36 | 0.91 | 1.22 | 1.9 | 3.0 | 4.7 | 7.8 | 12.3 | 17.4 | 23.5 | 29.4 | 33.9 | 37.3 |
| 47 | 55 | 80, 100, 150 | 3, 4, 6 | | | 63 | 30 | 0.54 | 0.81 | 1.0 | 1.6 | 2.9 | 4.9 | 8.2 | 14.8 | 23.1 | 32.8 | 42.8 | 49.1 | 52.9 |
| 57 | 67 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 0.63 | 1.0 | 1.4 | 2.6 | 4.1 | 6.0 | 8.9 | 14.0 | 24.6 | 38.3 | 49.6 | 57.7 | 64.5 |
| 72 | 85 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 0.80 | 1.0 | 1.3 | 2.2 | 4.1 | 9.7 | 19.6 | 36.9 | 49.9 | 60.5 | 69.4 | 75.7 | 80.4 |
| 90 | 105 | 100, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 1.0 | 1.3 | 1.8 | 3.2 | 5.7 | 9.6 | 15.8 | 26.1 | 39.2 | 55.2 | 73.9 | 87.1 | 95.0 |
| 144 | 170 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 1.6 | 2.0 | 2.7 | 5.7 | 10.0 | 15.4 | 22.7 | 33.8 | 48.5 | 76.0 | 113.8 | 144.5 | 169.7 |
| 225 | 265 | 150, 200, 250, 300, 350, 400 | 6, 8, 10, 12, 14, 16 | | | 150 | 60 | 2.5 | 3.6 | 4.9 | 9.1 | 15.3 | 24.1 | 37.0 | 66.9 | 108.6 | 158.1 | 202.6 | 230.6 | 254.0 |
| 320 | 375 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 3.6 | 4.6 | 6.0 | 11.0 | 17.7 | 31.0 | 54.8 | 94.0 | 147.4 | 208.4 | 274.5 | 329.8 | 359.9 |
| 375 | 435 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 4.2 | 5.6 | 8.4 | 19.7 | 53.3 | 100.0 | 149.0 | 203.0 | 254.6 | 308.5 | 367.0 | 421.0 | 453.3 |
| 560 | 650 | 250, 300, 350, 400, 500 | 10, 12, 14, 16, 20 | | | 250 | 120 | 6.3 | 7.0 | 9.1 | 18.4 | 33.7 | 55.2 | 86.6 | 136.0 | 227.1 | 354.8 | 494.6 | 621.7 | 657.2 |
| 900 | 1040 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 300 | 120 | 10.0 | 11.4 | 14.6 | 28.4 | 53.2 | 87.2 | 141.6 | 250.0 | 415.5 | 609.6 | 793.2 | 913.6 | 993.4 |
| 1200 | 1400 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 13.0 | 14.0 | 16.5 | 37.5 | 72.6 | 123.8 | 241.0 | 414.0 | 605.1 | 823.1 | 1082.9 | 1285.3 | 1405.5 |
| 1500 | 1730 | 400, 500 | 16, 20 | | | 400 | 120 | 16.5 | 18.0 | 22.1 | 50.1 | 91.6 | 157.9 | 321.8 | 596.0 | 872.5 | 1127.1 | 1346.1 | 1531.9 | 1665.6 |
| 2250 | 2600 | 500 | 20 | | | 500 | 120 | 25.0 | 28.0 | 38.3 | 89.3 | 157.0 | 296.0 | 651.0 | 1045.0 | 1395.7 | 1734.2 | 2047.3 | 2263.1 | 2454.3 |

**Table 3251.15:** *KV coefficients ($m^3/h$) for Type 3251 Globe Valve: perforated plug with flow divider ST 1, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.6 | 4.2 | 25, 40, 50, 80 | 1, 1½, 2, 3 | Perforated plug and ST 1 | Linear | 24 | 15 | 0.040 | 0.25 | 0.41 | 0.78 | 1.2 | 1.6 | 2.0 | 2.5 | 3.0 | 3.5 | 4.2 | 4.8 | 5.4 |
| 5.7 | 7 | 25, 40, 50, 80 | 1, 1½, 2, 3 | | | 24 | 15 | 0.073 | 0.43 | 0.73 | 1.3 | 1.9 | 2.6 | 3.2 | 3.8 | 4.4 | 5.1 | 5.8 | 6.4 | 7.1 |
| 9 | 10.5 | 40, 50, 80 | 1½, 2, 3 | | | 31 | 15 | 0.10 | 0.53 | 0.94 | 1.7 | 2.6 | 3.6 | 4.6 | 5.8 | 7.0 | 8.3 | 9.7 | 11.0 | 12.0 |
| 14.5 | 17 | 40, 50, 80 | 1½, 2, 3 | | | 31 | 15 | 0.28 | 1.50 | 2.6 | 4.7 | 6.7 | 8.8 | 10.7 | 12.2 | 13.4 | 14.5 | 15.5 | 16.4 | 17.1 |
| 22 | 26 | 40, 50, 80, 100 | 1½, 2, 3, 4 | | | 38 | 15 | 0.006 | 1.1 | 2.4 | 5.4 | 8.3 | 11.2 | 13.8 | 16.3 | 18.3 | 20.0 | 21.3 | 22.6 | 23.6 |
| 36 | 42 | 50, 80, 100 | 2, 3, 4 | | | 50 | 30 | 0.53 | 2.6 | 4.5 | 8.6 | 13.6 | 19.1 | 24.4 | 29.5 | 34.0 | 37.9 | 41.0 | 43.5 | 45.1 |
| 57 | 67 | 80, 100, 150 | 3, 4, 6 | | | 63 | 30 | 0.63 | 3.0 | 5.2 | 10.5 | 16.1 | 22.6 | 29.3 | 36.8 | 43.6 | 49.5 | 54.5 | 57.9 | 59.9 |
| 90 | 105 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 1.0 | 6.9 | 12.6 | 22.9 | 33.1 | 42.4 | 51.8 | 60.0 | 68.0 | 75.5 | 82.0 | 87.2 | 91.4 |
| 115 | 135 | 100, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 0.54 | 5.5 | 11.4 | 24.4 | 38.3 | 52.2 | 64.9 | 76.7 | 87.5 | 98.0 | 107.0 | 116.0 | 124.6 |
| 225 | 265 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 2.4 | 13.0 | 22.8 | 46.1 | 70.6 | 94.2 | 117.4 | 139.0 | 160.3 | 180.5 | 198.6 | 214.6 | 229.5 |
| 280 | 325 | 150, 200, 250, 300, 350, 400 | 6, 8, 10, 12, 14, 16 | | | 150 | 60 | 3.2 | 16.5 | 30.2 | 61.8 | 97.3 | 136.9 | 176.4 | 212.4 | 243.2 | 267.9 | 287.2 | 301.9 | 313.4 |
| 450 | 520 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 7.5 | 19.2 | 41.2 | 98.9 | 160.0 | 218.0 | 273.7 | 325.0 | 369.2 | 408.4 | 440.4 | 464.7 | 483.6 |
| 800 | 950 | 250, 300, 350, 400, 500 | 10, 12, 14, 16, 20 | | | 250 | 120 | 9.0 | 45.0 | 86.7 | 179.3 | 278.5 | 376.7 | 475.0 | 570.6 | 656.1 | 734.4 | 802.7 | 853.9 | 880.9 |
| 1150 | 1350 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 300 | 120 | 13.0 | 112.2 | 203.0 | 359.1 | 508.5 | 653.4 | 790.2 | 911.7 | 1010.7 | 1089.9 | 1152.0 | 1193.6 | 1218.9 |
| 1530 | 1800 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 17.0 | 88.0 | 163.1 | 334.2 | 518.2 | 717.5 | 930.1 | 1117.8 | 1273.3 | 1414.0 | 1535.5 | 1614.6 | 1646.2 |
| 1900 | 2200 | 400, 500 | 16, 20 | | | 400 | 120 | 21.0 | 173.4 | 318.9 | 578.8 | 822.5 | 1066.3 | 1290.8 | 1504.2 | 1683.6 | 1820.5 | 1927.2 | 2011.2 | 2044.5 |
| 2900 | 3300 | 500 | 20 | | | 500 | 120 | 32.0 | 226.2 | 401.2 | 783.3 | 1157.0 | 1504.5 | 1818.4 | 2103.2 | 2350.5 | 2568.7 | 2758.2 | 2910.8 | 2973.0 |

**Table 3251.16:** *$K_V$ coefficients ($m^3/h$) for Type 3251 Globe Valve: perforated plug with flow divider ST 2, with eq. percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.2 | 3.7 | 50, 80 | 2, 3 | Perforated plug and ST 2 | Equal percentage | 24 | 15 | 0.028 | 0.075 | 0.12 | 0.18 | 0.26 | 0.39 | 0.58 | 0.86 | 1.3 | 1.8 | 2.7 | 4.0 | 5.3 |
| 5 | 6 | 50, 80 | 2, 3 | | | 24 | 15 | 0.063 | 0.14 | 0.19 | 0.28 | 0.44 | 0.62 | 0.92 | 1.5 | 2.2 | 3.2 | 4.4 | 5.7 | 6.4 |
| 8 | 9.5 | 50, 80 | 2, 3 | | | 31 | 15 | 0.18 | 0.19 | 0.22 | 0.33 | 0.57 | 0.90 | 1.5 | 2.4 | 4.0 | 6.5 | 8.7 | 10.7 | 12.5 |
| 13 | 15 | 50, 80, 100 | 2, 3, 4 | | | 38 | 15 | 0.28 | 0.44 | 0.59 | 0.95 | 1.3 | 1.9 | 2.8 | 4.3 | 7.0 | 9.9 | 12.8 | 15.5 | 17.9 |
| 20 | 23 | 50, 80, 100 | 2, 3, 4 | | | 50 | 15 | 0.47 | 0.80 | 1.06 | 1.5 | 2.2 | 3.4 | 5.9 | 9.6 | 13.5 | 17.2 | 20.8 | 23.9 | 27.0 |
| 29 | 34 | 50, 80, 100 | 2, 3, 4 | | | 50 | 30 | 0.36 | 0.91 | 1.22 | 1.9 | 3.0 | 4.7 | 7.8 | 12.3 | 17.3 | 23.4 | 29.2 | 33.5 | 36.9 |
| 43 | 50 | 80, 100, 150 | 3, 4, 6 | | | 63 | 30 | 0.54 | 0.81 | 1.0 | 1.6 | 2.9 | 4.9 | 8.2 | 14.8 | 23.0 | 32.6 | 42.5 | 48.6 | 52.2 |
| 50 | 60 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 0.63 | 1.0 | 1.4 | 2.6 | 4.1 | 6.0 | 8.9 | 14.0 | 24.6 | 38.0 | 49.2 | 57.0 | 63.7 |
| 63 | 75 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 0.80 | 1.0 | 1.3 | 2.2 | 4.1 | 9.7 | 19.6 | 36.3 | 50.2 | 59.9 | 67.7 | 73.1 | 76.7 |
| 80 | 95 | 100, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 1.0 | 1.3 | 1.8 | 3.2 | 5.7 | 9.6 | 15.8 | 25.6 | 39.3 | 54.1 | 70.8 | 82.1 | 87.9 |
| 125 | 145 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 1.6 | 2.0 | 2.7 | 5.7 | 10.0 | 15.4 | 22.7 | 33.2 | 48.3 | 73.6 | 107.3 | 133.1 | 153.1 |
| 200 | 235 | 150, 200, 250, 300, 350, 400 | 6, 8, 10, 12, 14, 16 | | | 150 | 60 | 2.5 | 3.6 | 4.9 | 9.1 | 15.3 | 24.1 | 37.0 | 65.8 | 107.7 | 152.2 | 189.6 | 210.6 | 227.2 |
| 290 | 335 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 3.6 | 4.6 | 6.0 | 11.0 | 17.7 | 31.0 | 54.8 | 92.5 | 146.2 | 200.6 | 257.0 | 301.2 | 322.0 |
| 340 | 390 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 4.2 | 5.6 | 8.4 | 19.7 | 53.3 | 100.0 | 149.0 | 199.8 | 252.6 | 296.9 | 345.0 | 385.7 | 405.6 |
| 500 | 580 | 250, 300, 350, 400, 500 | 10, 12, 14, 16, 20 | | | 250 | 120 | 6.3 | 7.0 | 9.1 | 18.4 | 33.7 | 55.2 | 86.6 | 136.0 | 222.3 | 340.6 | 467.2 | 574.9 | 602.4 |
| 800 | 950 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 300 | 120 | 10.0 | 11.4 | 14.6 | 28.4 | 53.2 | 87.2 | 141.6 | 246.3 | 416.1 | 598.5 | 764.1 | 867.7 | 929.4 |
| 1080 | 1250 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 13.0 | 14.0 | 16.5 | 37.5 | 72.6 | 123.8 | 241.0 | 407.4 | 600.2 | 792.1 | 1013.8 | 1173.5 | 1257.6 |
| 1320 | 1530 | 400, 500 | 16, 20 | | | 400 | 120 | 16.5 | 18.0 | 22.1 | 50.1 | 91.6 | 157.9 | 321.8 | 586.5 | 865.4 | 1084.7 | 1260.2 | 1398.7 | 1490.2 |

**Table 3251.17:** *KV coefficients ($m^3/h$) for Type 3251 Globe Valve: perforated plug with flow divider ST 2, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.2 | 3.7 | 50, 80 | 2, 3 | Perforated plug and ST 2 | Linear | 24 | 15 | 0.040 | 0.25 | 0.41 | 0.77 | 1.2 | 1.6 | 2.0 | 2.5 | 2.9 | 3.5 | 4.1 | 4.8 | 5.4 |
| 5 | 6 | 50, 80 | 2, 3 | | | 24 | 15 | 0.073 | 0.43 | 0.72 | 1.3 | 1.9 | 2.5 | 3.1 | 3.8 | 4.4 | 5.1 | 5.7 | 6.4 | 7.0 |
| 8 | 9.5 | 50, 80 | 2, 3 | | | 31 | 15 | 0.10 | 0.53 | 0.94 | 1.7 | 2.6 | 3.5 | 4.6 | 5.7 | 6.9 | 8.2 | 9.6 | 10.9 | 11.9 |
| 13 | 15 | 50, 80 | 2, 3 | | | 31 | 15 | 0.28 | 1.5 | 2.6 | 4.6 | 6.7 | 8.7 | 10.6 | 12.1 | 13.3 | 14.4 | 15.3 | 16.2 | 17.0 |
| 20 | 23 | 50, 80, 100 | 2, 3, 4 | | | 38 | 15 | 0.006 | 1.1 | 2.2 | 4.8 | 7.4 | 10.0 | 12.3 | 14.5 | 16.3 | 17.8 | 19.0 | 20.1 | 21.0 |
| 32 | 37 | 50, 80, 100 | 2, 3, 4 | | | 50 | 30 | 0.53 | 2.6 | 4.5 | 8.6 | 13.5 | 18.9 | 24.2 | 29.2 | 33.7 | 37.5 | 40.6 | 43.1 | 44.7 |
| 50 | 60 | 80, 100, 150 | 3, 4, 6 | | | 63 | 30 | 0.63 | 3.0 | 5.2 | 10.4 | 15.9 | 22.4 | 29.0 | 36.4 | 43.1 | 48.9 | 53.9 | 57.3 | 59.2 |
| 80 | 95 | 80, 100, 150, 200, 250 | 3, 4, 6, 8, 10 | | | 80 | 30 | 1.0 | 6.9 | 12.3 | 21.9 | 31.6 | 40.5 | 49.5 | 57.3 | 64.9 | 72.1 | 78.3 | 83.2 | 87.3 |
| 105 | 120 | 100, 150, 200, 250, 300 | 4, 6, 8, 10, 12 | | | 100 | 30 | 0.54 | 5.5 | 10.8 | 22.2 | 34.9 | 47.5 | 59.1 | 69.9 | 79.7 | 89.3 | 97.5 | 105.7 | 113.5 |
| 200 | 235 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 2.4 | 12.4 | 21.9 | 42.6 | 65.3 | 87.1 | 108.6 | 128.6 | 148.3 | 166.9 | 183.7 | 198.5 | 212.3 |
| 255 | 295 | 150, 200, 250, 300, 350, 400 | 6, 8, 10, 12, 14, 16 | | | 150 | 60 | 3.2 | 16.5 | 28.7 | 56.4 | 88.9 | 125.0 | 161.0 | 194.0 | 222.0 | 244.6 | 262.2 | 275.7 | 286.1 |
| 400 | 465 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 200 | 60 | 7.5 | 19.2 | 39.4 | 91.4 | 148.0 | 201.6 | 253.1 | 300.5 | 341.4 | 377.6 | 407.3 | 429.8 | 447.2 |
| 720 | 835 | 250, 300, 350, 400, 500 | 10, 12, 14, 16, 20 | | | 250 | 120 | 9.0 | 45.0 | 81.8 | 161.5 | 250.9 | 339.5 | 428.0 | 514.1 | 591.2 | 661.7 | 723.3 | 769.4 | 793.8 |
| 1030 | 1200 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 300 | 120 | 13.0 | 112.2 | 190.0 | 346.0 | 478.0 | 600.0 | 720.0 | 830.7 | 920.9 | 993.0 | 1049.6 | 1087.5 | 1110.5 |
| 1350 | 1560 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 17.0 | 88.0 | 158.4 | 314.4 | 480.4 | 658.5 | 849.2 | 1020.6 | 1162.6 | 1291.1 | 1402.0 | 1474.2 | 1503.0 |
| 1680 | 1940 | 400, 500 | 16, 20 | | | 400 | 120 | 21.0 | 173.4 | 309.7 | 549.6 | 770.0 | 983.5 | 1178.5 | 1373.4 | 1537.2 | 1662.2 | 1759.6 | 1836.3 | 1866.7 |

**Table 3251.18:** *$K_V$ coefficients ($m^3/h$) for Type 3251 Globe Valve: perforated plug with flow divider ST 3, with eq. percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3 | 3.5 | 50, 80 | 2, 3 | Perforated plug and ST 3 | Equal percentage | 24 | 15 | 0.028 | 0.075 | 0.12 | 0.18 | 0.26 | 0.39 | 0.58 | 0.86 | 1.3 | 1.8 | 2.7 | 4.0 | 5.3 |
| 4.8 | 5.6 | 50, 80 | 2, 3 | | | 24 | 15 | 0.063 | 0.14 | 0.19 | 0.28 | 0.44 | 0.62 | 0.92 | 1.5 | 2.2 | 3.2 | 4.4 | 5.7 | 6.3 |
| 7.5 | 9 | 80 | 3 | | | 31 | 15 | 0.18 | 0.19 | 0.22 | 0.33 | 0.57 | 0.90 | 1.5 | 2.4 | 4.0 | 6.4 | 8.7 | 10.6 | 12.3 |
| 12 | 14 | 80, 100 | 3, 4 | | | 38 | 15 | 0.28 | 0.44 | 0.59 | 0.95 | 1.3 | 1.9 | 2.8 | 4.3 | 7.0 | 9.8 | 12.7 | 15.3 | 17.7 |
| 20 | 23 | 80, 100 | 3, 4 | | | 50 | 15 | 0.47 | 0.80 | 1.06 | 1.5 | 2.2 | 3.4 | 5.9 | 9.6 | 13.5 | 17.1 | 20.6 | 23.6 | 26.7 |
| 27 | 31 | 80, 100 | 3, 4 | | | 50 | 30 | 0.36 | 0.91 | 1.22 | 1.9 | 3.0 | 4.7 | 7.8 | 12.3 | 17.3 | 23.2 | 28.9 | 33.1 | 36.5 |
| 40 | 47 | 100, 150 | 4, 6 | | | 63 | 30 | 0.54 | 0.81 | 1.0 | 1.6 | 2.9 | 4.9 | 8.2 | 14.8 | 22.9 | 32.4 | 42.1 | 48.0 | 51.6 |
| 47 | 55 | 150, 200, 250 | 6, 8, 10 | | | 80 | 30 | 0.63 | 1.0 | 1.4 | 2.6 | 4.1 | 6.0 | 8.9 | 14.0 | 24.5 | 37.8 | 48.8 | 56.4 | 62.9 |
| 60 | 70 | 150, 200, 250 | 6, 8, 10 | | | 80 | 30 | 0.80 | 1.0 | 1.3 | 2.2 | 4.1 | 9.7 | 19.6 | 36.2 | 49.9 | 59.0 | 66.0 | 70.5 | 73.5 |
| 75 | 90 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 100 | 30 | 1.0 | 1.3 | 1.8 | 3.2 | 5.7 | 9.6 | 15.8 | 25.5 | 39.0 | 52.9 | 68.4 | 78.1 | 82.8 |
| 120 | 140 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 1.6 | 2.0 | 2.7 | 5.7 | 10.0 | 15.4 | 22.7 | 32.9 | 47.5 | 70.4 | 99.9 | 120.1 | 135.4 |
| 190 | 220 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 150 | 60 | 2.5 | 3.6 | 4.9 | 9.1 | 15.3 | 24.1 | 37.0 | 65.7 | 107.3 | 150.5 | 186.4 | 205.5 | 220.8 |
| 270 | 315 | 250, 300, 350, 400 | 10, 12, 14, 16 | | | 200 | 60 | 3.6 | 4.6 | 6.0 | 11.0 | 17.7 | 31.0 | 54.8 | 91.8 | 144.1 | 192.9 | 241.6 | 276.1 | 290.2 |
| 315 | 365 | 250, 300, 350, 400 | 10, 12, 14, 16 | | | 200 | 60 | 4.2 | 5.6 | 8.4 | 19.7 | 53.3 | 100.0 | 149.0 | 198.6 | 245.9 | 287.8 | 329.0 | 363.0 | 378.0 |
| 480 | 560 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 250 | 120 | 6.3 | 7.0 | 9.1 | 18.4 | 33.7 | 55.2 | 86.6 | 133.0 | 221.8 | 328.4 | 435.9 | 521.4 | 542.0 |
| 750 | 880 | 350, 400, 500 | 14, 16, 20 | | | 300 | 120 | 10.0 | 11.4 | 14.6 | 28.4 | 53.2 | 87.2 | 141.6 | 243.0 | 405.0 | 556.4 | 680.2 | 735.0 | 761.5 |
| 1000 | 1150 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 13.0 | 14.0 | 16.5 | 37.5 | 72.6 | 123.8 | 241.0 | 402.8 | 586.5 | 768.0 | 918.7 | 1019.8 | 1062.6 |
| 1250 | 1450 | 500 | 20 | | | 400 | 120 | 16.5 | 18.0 | 22.1 | 50.1 | 91.6 | 157.9 | 321.8 | 580.5 | 847.5 | 1025.7 | 1152.8 | 1232.2 | 1280.2 |

**Table 3251.19:** *KV coefficients ($m^3/h$) for Type 3251 Globe Valve: perforated plug with flow divider ST 3, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3 | 3.5 | 50, 80 | 2, 3 | Perforated plug and ST 3 | Linear | 24 | 15 | 0.040 | 0.25 | 0.41 | 0.76 | 1.2 | 1.6 | 2.0 | 2.5 | 2.9 | 3.4 | 4.1 | 4.7 | 5.3 |
| 4.8 | 5.6 | 50, 80 | 2, 3 | | | 24 | 15 | 0.073 | 0.43 | 0.72 | 1.3 | 1.9 | 2.5 | 3.1 | 3.7 | 4.4 | 5.0 | 5.7 | 6.3 | 7.0 |
| 7.5 | 9 | 80 | 3 | | | 31 | 15 | 0.10 | 0.53 | 0.93 | 1.7 | 2.6 | 3.5 | 4.5 | 5.6 | 6.8 | 8.1 | 9.5 | 10.8 | 11.8 |
| 12 | 14 | 80 | 3 | | | 31 | 15 | 0.28 | 1.5 | 2.6 | 4.6 | 6.6 | 8.6 | 10.5 | 12.0 | 13.1 | 14.2 | 15.1 | 16.0 | 16.8 |
| 20 | 23 | 80, 100 | 3, 4 | | | 38 | 15 | 0.006 | 1.1 | 2.3 | 5.3 | 8.1 | 11.0 | 13.5 | 16.0 | 17.9 | 19.6 | 20.9 | 22.1 | 23.1 |
| 30 | 35 | 80, 100 | 3, 4 | | | 50 | 30 | 0.53 | 2.6 | 4.5 | 8.5 | 13.3 | 18.7 | 23.9 | 28.9 | 33.3 | 37.1 | 40.1 | 42.6 | 44.2 |
| 47 | 55 | 100, 150 | 4, 6 | | | 63 | 30 | 0.63 | 3.0 | 5.1 | 10.2 | 15.7 | 22.1 | 28.7 | 36.0 | 42.6 | 48.4 | 53.3 | 56.6 | 58.5 |
| 75 | 90 | 150, 200, 250 | 6, 8, 10 | | | 80 | 30 | 1.0 | 6.9 | 12.1 | 21.4 | 30.8 | 39.5 | 48.3 | 55.9 | 63.3 | 70.4 | 76.5 | 81.3 | 85.2 |
| 100 | 120 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 100 | 30 | 0.5 | 5.5 | 10.3 | 20.3 | 32.0 | 43.5 | 54.1 | 63.9 | 72.9 | 81.7 | 89.2 | 96.7 | 103.8 |
| 190 | 220 | 150, 200, 250, 300 | 6, 8, 10, 12 | | | 125 | 60 | 2.4 | 12.3 | 20.8 | 38.6 | 59.1 | 78.9 | 98.3 | 116.4 | 134.3 | 151.2 | 166.4 | 179.8 | 192.2 |
| 230 | 270 | 200, 250, 300, 350, 400 | 8, 10, 12, 14, 16 | | | 150 | 60 | 3.2 | 16.5 | 27.4 | 51.7 | 81.5 | 114.6 | 147.6 | 177.8 | 203.5 | 224.2 | 240.4 | 252.7 | 262.3 |
| 375 | 435 | 250, 300, 350, 400 | 10, 12, 14, 16 | | | 200 | 60 | 7.5 | 19.2 | 36.8 | 80.8 | 130.8 | 178.2 | 223.7 | 265.6 | 301.7 | 333.7 | 359.9 | 379.8 | 395.2 |
| 675 | 780 | 300, 350, 400, 500 | 12, 14, 16, 20 | | | 250 | 120 | 9.0 | 45.0 | 75.2 | 137.9 | 214.2 | 289.8 | 365.4 | 438.9 | 504.7 | 564.9 | 617.4 | 656.8 | 677.6 |
| 950 | 1100 | 350, 400, 500 | 14, 16, 20 | | | 300 | 120 | 13.0 | 112.2 | 187.8 | 312.2 | 424.9 | 525.0 | 623.4 | 719.2 | 797.3 | 859.8 | 908.8 | 941.6 | 961.6 |
| 1275 | 1475 | 350, 400, 500 | 14, 16, 20 | | | 350 | 120 | 17.0 | 88.0 | 152.5 | 289.6 | 433.1 | 584.7 | 748.1 | 899.1 | 1024.2 | 1137.4 | 1235.1 | 1298.7 | 1324.1 |
| 1600 | 1860 | 500 | 20 | | | 400 | 120 | 21.0 | 173.4 | 300.6 | 520.4 | 717.5 | 900.8 | 1066.3 | 1242.6 | 1390.8 | 1503.9 | 1592.1 | 1661.4 | 1688.9 |

**Table 3251.20:** *$K_V$ coefficients ($m^3/h$) for Type 3251 Globe Valve: without valve trim (PN 40)*

| Seat Ø [mm] | Flow coefficient ($K_V$) without valve trim | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DN 15 | DN 25 | DN 40 | DN 50 | DN 80 | DN 100 | DN 150 | DN 200 | DN 250 | DN 300 | DN 350 | DN 400 | DN 500 |
| 6 | 1.3 | 1.5 | 1.8 | – | – | – | – | – | – | – | – | – | – |
| 12 | 4.5 | 4.9 | 5 | – | – | – | – | – | – | – | – | – | – |
| 24 | 4.9 | 14 | 18 | 21 | 23 | – | – | – | – | – | – | – | – |
| 31 | – | – | 26 | 32 | 36 | – | – | – | – | – | – | – | – |
| 38 | – | – | 30 | 41 | 42 | 45 | – | – | – | – | – | – | – |
| 50 | – | – | – | 50 | 80 | 82 | – | – | – | – | – | – | – |
| 63 | – | – | – | – | 108 | 122 | 140 | – | – | – | – | – | – |
| 80 | – | – | – | – | 122 | 150 | 215 | 220 | 225 | – | – | – | – |
| 100 | – | – | – | – | – | 188 | 234 | 315 | 325 | 330 | – | – | – |
| 125 | – | – | – | – | – | – | 333 | 495 | 504 | 511 | – | – | – |
| 150 | – | – | – | – | – | – | 402 | 650 | 700 | 710 | 715 | 715 | – |
| 200 | – | – | – | – | – | – | – | 698 | 1030 | 1180 | 1250 | 1270 | – |
| 250 | – | – | – | – | – | – | – | – | 1150 | 1530 | 1850 | 1900 | – |
| 300 | – | – | – | – | – | – | – | – | – | 1650 | 2450 | 2500 | – |
| 350 | – | – | – | – | – | – | – | – | – | – | 2800 | 2850 | 3500 |
| 400 | – | – | – | – | – | – | – | – | – | – | – | 2950 | 4100 |
| 500 | – | – | – | – | – | – | – | – | – | – | – | – | 4700 |

**Table 3251.21:** *$C_V$ coefficients (gpm) for Type 3251 Globe Valve: standard plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.12 | 0.1 | ½, 1, 1½ | 15, 25, 40 | Without | Equal percentage | 6 | 15 | 0.0025 | 0.0033 | 0.0044 | 0.0071 | 0.011 | 0.015 | 0.021 | 0.029 | 0.040 | 0.058 | 0.086 | 0.109 | 0.128 |
| 0.2 | 0.16 | ½, 1, 1½ | 15, 25, 40 | | | 6 | 15 | 0.0040 | 0.0053 | 0.0067 | 0.0101 | 0.014 | 0.020 | 0.026 | 0.035 | 0.049 | 0.070 | 0.109 | 0.182 | 0.257 |
| 0.3 | 0.25 | ½, 1, 1½ | 15, 25, 40 | | | 6 | 15 | 0.0064 | 0.0071 | 0.0079 | 0.012 | 0.016 | 0.024 | 0.034 | 0.048 | 0.072 | 0.111 | 0.183 | 0.288 | 0.414 |
| 0.5 | 0.4 | ½, 1, 1½ | 15, 25, 40 | | | 6 | 15 | 0.0088 | 0.0100 | 0.011 | 0.017 | 0.027 | 0.041 | 0.065 | 0.100 | 0.146 | 0.209 | 0.309 | 0.508 | 1.000 |
| 0.75 | 0.63 | ½, 1, 1½ | 15, 25, 40 | | | 6 | 15 | 0.016 | 0.019 | 0.023 | 0.032 | 0.047 | 0.069 | 0.102 | 0.146 | 0.211 | 0.308 | 0.464 | 0.777 | 1.26 |
| 1.2 | 1 | ½, 1, 1½ | 15, 25, 40 | | | 6 | 15 | 0.025 | 0.032 | 0.039 | 0.056 | 0.080 | 0.12 | 0.17 | 0.25 | 0.37 | 0.58 | 0.88 | 1.27 | 1.67 |
| 2 | 1.6 | ½, 1, 1½ | 15, 25, 40 | | | 12 | 15 | 0.036 | 0.045 | 0.057 | 0.088 | 0.13 | 0.19 | 0.27 | 0.39 | 0.56 | 0.83 | 1.26 | 2.03 | 3.3 |
| 3 | 2.5 | ½, 1, 1½ | 15, 25, 40 | | | 12 | 15 | 0.059 | 0.070 | 0.085 | 0.13 | 0.19 | 0.29 | 0.43 | 0.63 | 0.93 | 1.38 | 2.06 | 3.0 | 4.1 |
| 5 | 4 | ½, 1, 1½, 2, 3 | 12, 25, 40, 50, 80 | | | 24 | 15 | 0.090 | 0.11 | 0.13 | 0.20 | 0.28 | 0.41 | 0.57 | 0.81 | 1.23 | 1.90 | 3.1 | 5.0 | 7.4 |
| 7.5 | 6.3 | 1, 1½, 2, 3 | 25, 40, 50, 80 | | | 24 | 15 | 0.16 | 0.20 | 0.25 | 0.38 | 0.56 | 0.80 | 1.14 | 1.68 | 2.5 | 3.7 | 5.4 | 7.7 | 10.0 |
| 12 | 10 | 1, 1½, 2, 3 | 25, 40, 50, 80 | | | 24 | 15 | 0.25 | 0.32 | 0.42 | 0.65 | 0.94 | 1.30 | 1.78 | 2.5 | 3.6 | 5.2 | 7.7 | 10.9 | 12.4 |
| 20 | 16 | 1½, 2, 3 | 40, 50, 80 | | | 31 | 15 | 0.39 | 0.52 | 0.65 | 1.01 | 1.47 | 2.11 | 3.0 | 4.4 | 6.9 | 11.3 | 15.6 | 19.1 | 21.6 |
| 30 | 25 | 1½, 2, 3, 4 | 40, 50, 80, 100 | | | 38 | 15 | 0.46 | 0.61 | 0.76 | 1.12 | 1.67 | 2.6 | 4.5 | 7.9 | 12.9 | 17.9 | 22.8 | 27.3 | 30.7 |
| 47 | 40 | 2, 3, 4 | 50, 80, 100 | | | 50 | 30 | 0.73 | 0.98 | 1.32 | 2.07 | 3.0 | 4.2 | 6.4 | 9.7 | 14.6 | 22.1 | 32.2 | 43.5 | 52.3 |
| 75 | 63 | 3, 4, 6 | 80, 100, 150 | | | 63 | 30 | 1.39 | 1.55 | 1.76 | 2.6 | 3.9 | 5.8 | 8.7 | 13.7 | 21.6 | 34.2 | 50.4 | 67.6 | 77.8 |
| 120 | 100 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 1.60 | 1.92 | 2.5 | 4.0 | 6.6 | 10.7 | 17.0 | 27.1 | 43.8 | 68.0 | 90.5 | 108.5 | 120.7 |
| 190 | 160 | 4, 6, 8, 10, 12 | 100, 150, 200, 250, 300 | | | 100 | 30 | 3.0 | 4.0 | 5.5 | 8.8 | 13.2 | 19.5 | 33.1 | 55.2 | 83.4 | 112.6 | 143.6 | 171.4 | 191.6 |
| 290 | 250 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 4.7 | 6.5 | 8.3 | 13.6 | 21.1 | 31.1 | 44.3 | 64.6 | 102.9 | 177.4 | 245.6 | 302.5 | 339.3 |
| 420 | 360 | 6, 8, 10, 12, 14, 16 | 150, 200, 250, 300, 350, 399 | | | 150 | 60 | 6.6 | 8.7 | 11.9 | 18.7 | 27.8 | 41.0 | 59.6 | 94.6 | 162.3 | 252.4 | 333.8 | 399.8 | 441.5 |
| 735 | 630 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 10.9 | 17.3 | 23.1 | 42.0 | 83.0 | 152.1 | 257.4 | 378.8 | 484.9 | 575.8 | 648.9 | 696.1 | 723.2 |
| 1150 | 1000 | 10, 12, 14, 16, 20 | 250, 300, 350, 400, 500 | | | 250 | 120 | 17.9 | 25.1 | 35.3 | 59.3 | 91.8 | 136.8 | 205.6 | 301.1 | 462.3 | 707.7 | 975.6 | 1241.9 | 1369.5 |
| 1730 | 1500 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 300 | 120 | 23.2 | 35.9 | 50.5 | 84.8 | 131.2 | 195.6 | 294.0 | 430.5 | 661.1 | 1012.0 | 1395.1 | 1775.9 | 1958.4 |
| 2300 | 2000 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 32.2 | 45.2 | 63.5 | 106.8 | 165.2 | 246.3 | 370.0 | 541.9 | 832.1 | 1273.9 | 1756.0 | 2235.4 | 2465.1 |
| 2900 | 2500 | 16, 20 | 400, 500 | | | 400 | 120 | 40.6 | 56.9 | 80.1 | 134.6 | 208.3 | 310.5 | 466.6 | 683.3 | 1049.2 | 1606.2 | 2214.0 | 2818.5 | 3108.0 |
| 4200 | 3600 | 20 | 500 | | | 500 | 120 | 62.5 | 87.8 | 123.5 | 207.6 | 321.2 | 478.9 | 719.5 | 1053.7 | 1618.0 | 2443.5 | 3212.2 | 3815.8 | 4261.6 |

**Table 3251.22:** *CV coefficients (gpm) for Type 3251 Globe Valve: standard plug without flow divider, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.12 | 0.1 | ½, 1, 1½ | 15, 25, 40 | Without | Linear | 6 | 15 | 0.0025 | 0.0077 | 0.013 | 0.024 | 0.035 | 0.045 | 0.056 | 0.067 | 0.077 | 0.088 | 0.098 | 0.109 | 0.119 |
| 0.2 | 0.16 | ½, 1, 1½ | 15, 25, 40 | | | 6 | 15 | 0.0040 | 0.0068 | 0.013 | 0.028 | 0.047 | 0.066 | 0.085 | 0.104 | 0.123 | 0.142 | 0.161 | 0.180 | 0.199 |
| 0.3 | 0.25 | ½, 1, 1½ | 15, 25, 40 | | | 6 | 15 | 0.0045 | 0.013 | 0.026 | 0.053 | 0.081 | 0.108 | 0.136 | 0.163 | 0.191 | 0.218 | 0.246 | 0.273 | 0.301 |
| 0.5 | 0.4 | ½, 1, 1½ | 15, 25, 40 | | | 6 | 15 | 0.0101 | 0.023 | 0.044 | 0.092 | 0.142 | 0.191 | 0.241 | 0.291 | 0.341 | 0.391 | 0.440 | 0.490 | 0.540 |
| 0.75 | 0.63 | ½, 1, 1½ | 15, 25, 40 | | | 6 | 15 | 0.016 | 0.046 | 0.079 | 0.157 | 0.237 | 0.318 | 0.398 | 0.479 | 0.559 | 0.639 | 0.720 | 0.800 | 0.880 |
| 1.2 | 1 | ½, 1, 1½ | 15, 25, 40 | | | 6 | 15 | 0.022 | 0.114 | 0.195 | 0.321 | 0.440 | 0.559 | 0.677 | 0.796 | 0.915 | 1.034 | 1.15 | 1.27 | 1.39 |
| 2 | 1.6 | ½, 1, 1½ | 15, 25, 40 | | | 12 | 15 | 0.040 | 0.13 | 0.22 | 0.41 | 0.61 | 0.81 | 1.01 | 1.21 | 1.41 | 1.60 | 1.80 | 2.00 | 2.20 |
| 3 | 2.5 | ½, 1, 1½ | 15, 25, 40 | | | 12 | 15 | 0.049 | 0.19 | 0.34 | 0.62 | 0.93 | 1.23 | 1.54 | 1.85 | 2.16 | 2.5 | 2.8 | 3.1 | 3.4 |
| 5 | 4 | ½, 1, 1½, 2, 3 | 15, 25, 40, 50, 80 | | | 24 | 15 | 0.046 | 0.14 | 0.38 | 0.91 | 1.44 | 1.96 | 2.5 | 3.0 | 3.5 | 4.0 | 4.6 | 5.1 | 5.6 |
| 7.5 | 6.3 | 1, 1½, 2, 3 | 25, 40, 50, 80 | | | 24 | 15 | 0.112 | 0.36 | 0.76 | 1.56 | 2.4 | 3.2 | 4.0 | 4.8 | 5.6 | 6.4 | 7.2 | 8.0 | 8.8 |
| 12 | 10 | 1, 1½, 2, 3 | 25, 40, 50, 80 | | | 24 | 15 | 0.18 | 0.71 | 1.30 | 2.6 | 3.8 | 5.1 | 6.4 | 7.6 | 8.9 | 10.2 | 11.4 | 12.7 | 14.0 |
| 20 | 16 | 1½, 2, 3 | 40, 50, 80 | | | 31 | 15 | 0.22 | 1.10 | 2.07 | 4.1 | 6.1 | 8.1 | 10.1 | 12.2 | 14.2 | 16.2 | 18.2 | 20.2 | 22.3 |
| 30 | 25 | 1½, 2, 3, 4 | 40, 50, 80, 100 | | | 38 | 15 | 0.37 | 0.94 | 1.77 | 4.6 | 7.5 | 10.4 | 13.3 | 16.3 | 19.2 | 22.1 | 25.0 | 27.9 | 30.9 |
| 47 | 40 | 2, 3, 4 | 50, 80, 100 | | | 50 | 30 | 0.63 | 1.72 | 3.7 | 9.0 | 14.0 | 19.0 | 24.0 | 29.0 | 34.0 | 39.0 | 44.0 | 49.0 | 54.0 |
| 75 | 63 | 3, 4, 6 | 80, 100, 150 | | | 63 | 30 | 1.18 | 2.03 | 4.7 | 12.8 | 21.0 | 29.2 | 37.3 | 45.5 | 53.7 | 61.8 | 70.0 | 78.2 | 86.3 |
| 120 | 100 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 0.85 | 2.6 | 7.2 | 20.0 | 32.7 | 45.3 | 57.9 | 70.6 | 83.2 | 95.8 | 108.5 | 121.1 | 133.7 |
| 190 | 160 | 4, 6, 8, 10, 12 | 100, 150, 200, 250, 300 | | | 100 | 30 | 2.2 | 4.7 | 12.1 | 29.2 | 47.4 | 65.5 | 83.6 | 101.7 | 119.8 | 138.0 | 156.1 | 174.2 | 190.7 |
| 290 | 250 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 4.1 | 7.3 | 20.4 | 53.6 | 86.7 | 119.7 | 152.7 | 185.8 | 218.8 | 251.8 | 284.9 | 317.9 | 350.9 |
| 420 | 360 | 6, 8, 10, 12, 14, 16 | 150, 200, 250, 300, 350, 399 | | | 150 | 60 | 5.0 | 14.2 | 36.2 | 75.3 | 117.0 | 156.5 | 195.9 | 235.3 | 274.8 | 314.2 | 353.6 | 393.1 | 419.2 |
| 735 | 630 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 11.7 | 33.5 | 67.3 | 139.7 | 210.6 | 281.6 | 352.6 | 423.6 | 494.6 | 565.5 | 636.5 | 707.5 | 754.6 |
| 1150 | 1000 | 10, 12, 14, 16, 20 | 250, 300, 350, 400, 500 | | | 250 | 120 | 17.4 | 32.0 | 84.7 | 211.3 | 341.4 | 471.6 | 601.7 | 731.9 | 862.0 | 992.2 | 1122.3 | 1252.5 | 1382.6 |
| 1730 | 1500 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 300 | 120 | 26.4 | 83.4 | 168.5 | 356.9 | 538.3 | 719.7 | 901.1 | 1082.5 | 1263.9 | 1445.3 | 1626.7 | 1808.1 | 1941.3 |
| 2300 | 2000 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 34.9 | 69.0 | 155.2 | 375.4 | 606.6 | 837.9 | 1069.1 | 1300.3 | 1531.5 | 1762.7 | 1994.0 | 2225.2 | 2456.4 |
| 2900 | 2500 | 16, 20 | 400, 500 | | | 400 | 120 | 42.3 | 132.2 | 265.2 | 550.3 | 830.0 | 1109.7 | 1389.4 | 1669.1 | 1948.8 | 2228.5 | 2508.2 | 2788.0 | 2993.7 |
| 4200 | 3600 | 20 | 500 | | | 500 | 120 | 68.0 | 212.4 | 426.2 | 884.5 | 1334.0 | 1783.6 | 2233.1 | 2682.7 | 3132.2 | 3482.1 | 3792.5 | 4052.0 | 4266.8 |

**Table 3251.23:** *$C_V$ coefficients (gpm) for Type 3251 Globe Valve: standard plug with flow divider ST 1, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 1.7 | 1.45 | ½, 1, 1½ | 15, 25, 40 | ST 1 | Equal percentage | 12 | 15 | 0.036 | 0.045 | 0.057 | 0.088 | 0.13 | 0.19 | 0.27 | 0.39 | 0.56 | 0.83 | 1.25 | 2.01 | 3.3 |
| 2.6 | 2.2 | ½, 1, 1½ | 15, 25, 40 | | | 12 | 15 | 0.059 | 0.070 | 0.085 | 0.13 | 0.19 | 0.29 | 0.43 | 0.63 | 0.93 | 1.37 | 2.04 | 2.9 | 4.0 |
| 4.2 | 3.6 | ½, 1, 1½, 2, 3 | 15, 25, 40, 50, 80 | | | 24 | 15 | 0.090 | 0.108 | 0.13 | 0.20 | 0.28 | 0.41 | 0.57 | 0.81 | 1.22 | 1.89 | 3.0 | 5.0 | 7.3 |
| 7 | 5.7 | 1, 1½, 2, 3 | 25, 40, 50, 80 | | | 24 | 15 | 0.16 | 0.20 | 0.25 | 0.38 | 0.56 | 0.80 | 1.14 | 1.68 | 2.5 | 3.7 | 5.4 | 7.7 | 9.9 |
| 10.5 | 9 | 1, 1½, 2, 3 | 25, 40, 50, 80 | | | 24 | 15 | 0.25 | 0.32 | 0.42 | 0.65 | 0.94 | 1.30 | 1.78 | 2.5 | 3.6 | 5.2 | 7.6 | 10.8 | 12.3 |
| 17 | 14.5 | 1½, 2, 3 | 40, 50, 80 | | | 31 | 15 | 0.39 | 0.52 | 0.65 | 1.01 | 1.47 | 2.11 | 3.0 | 4.4 | 6.9 | 11.3 | 15.4 | 18.9 | 21.4 |
| 26 | 22 | 1½, 2, 3, 4 | 40, 50, 80, 100 | | | 38 | 15 | 0.46 | 0.61 | 0.76 | 1.12 | 1.67 | 2.6 | 4.5 | 7.9 | 12.7 | 17.3 | 21.8 | 25.7 | 28.6 |
| 42 | 36 | 2, 3, 4 | 50, 80, 100 | | | 50 | 30 | 0.73 | 0.98 | 1.32 | 2.07 | 3.0 | 4.2 | 6.4 | 9.7 | 14.3 | 21.3 | 30.8 | 40.9 | 48.9 |
| 67 | 57 | 3, 4, 6 | 80, 100, 150 | | | 63 | 30 | 1.4 | 1.5 | 1.8 | 2.6 | 3.9 | 5.8 | 8.7 | 13.7 | 20.9 | 32.4 | 46.6 | 60.8 | 69.2 |
| 105 | 90 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 1.6 | 1.9 | 2.5 | 4.0 | 6.6 | 10.7 | 17.0 | 27.1 | 42.1 | 63.1 | 81.6 | 94.6 | 105.1 |
| 170 | 144 | 4, 6, 8, 10, 12 | 100, 150, 200, 250, 300 | | | 100 | 30 | 3.0 | 4.0 | 5.5 | 8.8 | 13.2 | 19.5 | 33.1 | 55.2 | 80.7 | 105.8 | 131.7 | 153.1 | 170.7 |
| 265 | 225 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 4.7 | 6.5 | 8.3 | 13.6 | 21.1 | 31.1 | 44.3 | 63.3 | 98.6 | 158.7 | 206.9 | 239.0 | 260.8 |
| 375 | 320 | 6, 8, 10, 12, 14, 16 | 150, 200, 250, 300, 350, 400 | | | 150 | 60 | 6.6 | 8.7 | 11.9 | 18.7 | 27.8 | 41.0 | 59.6 | 94.6 | 158.4 | 241.3 | 313.8 | 367.8 | 402.6 |
| 650 | 560 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 10.9 | 17.3 | 23.1 | 39.1 | 77.2 | 141.4 | 239.4 | 352.2 | 450.9 | 535.5 | 603.5 | 647.4 | 672.6 |
| 1040 | 900 | 10, 12, 14, 16, 20 | 250, 300, 350, 400, 500 | | | 250 | 120 | 17.9 | 25.1 | 35.3 | 59.3 | 91.8 | 136.8 | 205.6 | 301.1 | 451.2 | 676.6 | 917.0 | 1142.6 | 1249.0 |
| 1560 | 1350 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 300 | 120 | 23.2 | 35.9 | 50.5 | 84.8 | 131.2 | 195.6 | 294.0 | 430.5 | 645.2 | 967.5 | 1311.3 | 1633.8 | 1786.0 |
| 2080 | 1800 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 32.2 | 45.2 | 63.5 | 106.8 | 165.2 | 246.3 | 370.0 | 541.9 | 812.1 | 1217.8 | 1650.6 | 2056.6 | 2248.1 |
| 2600 | 2250 | 16, 20 | 400, 500 | | | 400 | 120 | 40.6 | 56.9 | 80.1 | 134.6 | 208.3 | 310.5 | 466.6 | 683.3 | 1024.0 | 1535.5 | 2081.2 | 2593.0 | 2834.5 |
| 3700 | 3200 | 20 | 500 | | | 500 | 120 | 62.5 | 87.8 | 123.5 | 207.6 | 321.2 | 478.9 | 719.5 | 1053.7 | 1579.2 | 2336.0 | 3019.4 | 3510.5 | 3886.6 |

**Table 3251.24:** *CV coefficients (gpm) for Type 3251 Globe Valve: standard plug with flow divider ST 1, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 1.7 | 1.45 | ½, 1, 1½ | 15, 25, 40 | ST 1 | Linear | 12 | 15 | 0.040 | 0.13 | 0.22 | 0.41 | 0.61 | 0.80 | 1.00 | 1.20 | 1.39 | 1.59 | 1.79 | 1.98 | 2.2 |
| 2.6 | 2.2 | ½, 1, 1½ | 15, 25, 40 | | | 12 | 15 | 0.049 | 0.19 | 0.34 | 0.62 | 0.92 | 1.22 | 1.53 | 1.83 | 2.13 | 2.4 | 2.7 | 3.0 | 3.3 |
| 4.2 | 3.6 | ½, 1, 1½, 2, 3 | 15, 25, 40, 50, 80 | | | 24 | 15 | 0.046 | 0.14 | 0.38 | 0.91 | 1.42 | 1.94 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.6 |
| 7 | 5.7 | 1, 1½, 2, 3 | 25, 40, 50, 80 | | | 24 | 15 | 0.112 | 0.36 | 0.76 | 1.55 | 2.3 | 3.1 | 3.9 | 4.7 | 5.5 | 6.3 | 7.1 | 7.9 | 8.7 |
| 10.5 | 9 | 1, 1½, 2, 3 | 25, 40, 50, 80 | | | 24 | 15 | 0.18 | 0.71 | 1.30 | 2.5 | 3.8 | 5.0 | 6.3 | 7.6 | 8.8 | 10.1 | 11.3 | 12.6 | 13.8 |
| 17 | 14.5 | 1½, 2, 3 | 40, 50, 80 | | | 31 | 15 | 0.22 | 1.10 | 2.07 | 4.0 | 6.0 | 8.0 | 10.0 | 12.0 | 14.0 | 16.0 | 18.0 | 20.0 | 22.0 |
| 26 | 22 | 1½, 2, 3, 4 | 40, 50, 80, 100 | | | 38 | 15 | 0.37 | 0.94 | 1.77 | 4.2 | 6.8 | 9.5 | 12.1 | 14.8 | 17.5 | 20.1 | 22.8 | 25.4 | 28.1 |
| 42 | 36 | 2, 3, 4 | 50, 80, 100 | | | 50 | 30 | 0.63 | 1.72 | 3.7 | 8.4 | 13.0 | 17.7 | 22.3 | 27.0 | 31.7 | 36.3 | 41.0 | 45.6 | 50.3 |
| 67 | 57 | 3, 4, 6 | 80, 100, 150 | | | 63 | 30 | 1.18 | 2.03 | 4.7 | 11.3 | 18.5 | 25.7 | 32.9 | 40.0 | 47.2 | 54.4 | 61.6 | 68.8 | 76.0 |
| 105 | 90 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 0.85 | 2.6 | 6.5 | 16.6 | 27.1 | 37.6 | 48.1 | 58.6 | 69.1 | 79.5 | 90.0 | 100.5 | 111.0 |
| 170 | 144 | 4, 6, 8, 10, 12 | 100, 150, 200, 250, 300 | | | 100 | 30 | 2.21 | 4.7 | 11.4 | 26.3 | 42.6 | 58.9 | 75.2 | 91.6 | 107.9 | 124.2 | 140.5 | 156.8 | 171.6 |
| 265 | 225 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 4.09 | 7.31 | 17.92 | 42.90 | 69.33 | 95.75 | 122.18 | 148.6 | 175.0 | 201.5 | 227.9 | 254.3 | 280.7 |
| 375 | 320 | 6, 8, 10, 12, 14, 16 | 150, 200, 250, 300, 350, 400 | | | 150 | 60 | 5.0 | 14.2 | 33.3 | 69.3 | 107.7 | 143.9 | 180.2 | 216.5 | 252.8 | 289.1 | 325.3 | 361.6 | 385.7 |
| 650 | 560 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 11.7 | 33.5 | 64.5 | 129.9 | 195.9 | 261.9 | 327.9 | 393.9 | 459.9 | 526.0 | 592.0 | 658.0 | 701.8 |
| 1040 | 900 | 10, 12, 14, 16, 20 | 250, 300, 350, 400, 500 | | | 250 | 120 | 17.4 | 32.0 | 80.1 | 192.3 | 310.7 | 429.1 | 547.6 | 666.0 | 784.4 | 902.9 | 1021.3 | 1139.7 | 1258.2 |
| 1560 | 1350 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 300 | 120 | 26.4 | 83.4 | 160.4 | 328.3 | 495.2 | 662.1 | 829.0 | 995.9 | 1162.8 | 1329.6 | 1496.5 | 1663.4 | 1786.0 |
| 2080 | 1800 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 34.9 | 69.0 | 147.8 | 345.4 | 558.1 | 770.8 | 983.6 | 1196.3 | 1409.0 | 1621.7 | 1834.5 | 2047.2 | 2259.9 |
| 2600 | 2250 | 16, 20 | 400, 500 | | | 400 | 120 | 42.3 | 132.2 | 252.5 | 506.3 | 763.6 | 1020.9 | 1278.3 | 1535.6 | 1792.9 | 2050.3 | 2307.6 | 2564.9 | 2754.2 |
| 3700 | 3200 | 20 | 500 | | | 500 | 120 | 68.0 | 212.4 | 405.8 | 813.7 | 1227.3 | 1640.9 | 2054.5 | 2468.0 | 2881.6 | 3203.5 | 3489.1 | 3727.9 | 3925.5 |

**Table 3251.25:** *$C_V$ coefficients (gpm) for Type 3251 Globe Valve: standard plug with flow divider ST 2, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.7 | 3.2 | 2, 3 | 50, 80 | ST 2 | Equal percentage | 24 | 15 | 0.090 | 0.108 | 0.132 | 0.196 | 0.28 | 0.41 | 0.57 | 0.81 | 1.22 | 1.88 | 3.01 | 4.90 | 7.2 |
| 6 | 5 | 2, 3 | 50, 80 | | | 24 | 15 | 0.16 | 0.20 | 0.25 | 0.38 | 0.56 | 0.80 | 1.14 | 1.68 | 2.5 | 3.6 | 5.4 | 7.6 | 9.8 |
| 9.5 | 8 | 2, 3 | 50, 80 | | | 24 | 15 | 0.25 | 0.32 | 0.42 | 0.65 | 0.94 | 1.30 | 1.78 | 2.5 | 3.6 | 5.1 | 7.5 | 10.6 | 12.1 |
| 15 | 13 | 2, 3 | 50, 80 | | | 31 | 15 | 0.39 | 0.52 | 0.65 | 1.01 | 1.47 | 2.11 | 3.0 | 4.4 | 6.9 | 11.2 | 15.3 | 18.7 | 21.2 |
| 23 | 20 | 2, 3, 4 | 50, 80, 100 | | | 38 | 15 | 0.46 | 0.61 | 0.76 | 1.12 | 1.67 | 2.6 | 4.5 | 7.9 | 12.6 | 17.2 | 21.6 | 25.4 | 28.3 |
| 37 | 32 | 2, 3, 4 | 50, 80, 100 | | | 50 | 30 | 0.73 | 0.98 | 1.32 | 2.07 | 3.0 | 4.2 | 6.4 | 9.7 | 14.3 | 21.2 | 30.5 | 40.4 | 48.3 |
| 60 | 50 | 3, 4, 6 | 80, 100, 150 | | | 63 | 30 | 1.4 | 1.5 | 1.8 | 2.6 | 3.9 | 5.8 | 8.7 | 13.7 | 20.9 | 32.2 | 46.2 | 60.1 | 68.4 |
| 95 | 80 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 1.6 | 1.9 | 2.5 | 4.0 | 6.6 | 10.7 | 17.0 | 26.6 | 42.2 | 61.8 | 78.2 | 88.9 | 95.7 |
| 145 | 125 | 4, 6, 8, 10, 12 | 100, 150, 200, 250, 300 | | | 100 | 30 | 3.0 | 4.0 | 5.5 | 8.8 | 13.2 | 19.5 | 33.1 | 54.2 | 80.4 | 102.4 | 124.2 | 140.5 | 151.9 |
| 235 | 200 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 4.7 | 6.5 | 8.3 | 13.6 | 21.1 | 31.1 | 44.3 | 62.9 | 97.5 | 154.3 | 197.7 | 223.9 | 237.9 |
| 335 | 290 | 6, 8, 10, 12, 14, 16 | 150, 200, 250, 300, 350, 400 | | | 150 | 60 | 6.6 | 8.7 | 11.9 | 18.7 | 27.8 | 41.0 | 59.6 | 93.1 | 157.1 | 232.2 | 293.8 | 335.8 | 360.3 |
| 580 | 500 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 10.9 | 17.3 | 23.1 | 36.1 | 71.4 | 130.8 | 221.4 | 325.7 | 417.0 | 495.2 | 558.1 | 598.7 | 622.0 |
| 950 | 800 | 10, 12, 14, 16, 20 | 250, 300, 350, 400, 500 | | | 250 | 120 | 17.9 | 25.1 | 35.3 | 59.3 | 91.8 | 136.8 | 205.6 | 296.2 | 447.5 | 651.1 | 858.5 | 1043.2 | 1117.5 |
| 1400 | 1200 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 300 | 120 | 23.2 | 35.9 | 50.5 | 84.8 | 131.2 | 195.6 | 294.0 | 423.6 | 639.9 | 931.1 | 1227.6 | 1491.8 | 1598.0 |
| 1860 | 1600 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 32.2 | 45.2 | 63.5 | 106.8 | 165.2 | 246.3 | 370.0 | 533.2 | 805.5 | 1172.0 | 1545.3 | 1877.8 | 2011.5 |
| 2300 | 2000 | 16, 20 | 400, 500 | | | 400 | 120 | 40.6 | 56.9 | 80.1 | 134.6 | 208.3 | 310.5 | 466.6 | 672.3 | 1015.6 | 1477.7 | 1948.4 | 2367.5 | 2536.2 |

**Table 3251.26:** *CV coefficients (gpm) for Type 3251 Globe Valve: standard plug with flow divider ST 2, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.7 | 3.2 | 2, 3 | 50, 80 | ST 2 | Linear | 24 | 15 | 0.046 | 0.142 | 0.375 | 0.896 | 1.41 | 1.92 | 2.43 | 2.94 | 3.45 | 3.96 | 4.47 | 4.98 | 5.5 |
| 6 | 5 | 2, 3 | 50, 80 | | | 24 | 15 | 0.11 | 0.36 | 0.76 | 1.53 | 2.32 | 3.11 | 3.89 | 4.68 | 5.5 | 6.3 | 7.0 | 7.8 | 8.6 |
| 9.5 | 8 | 2, 3 | 50, 80 | | | 24 | 15 | 0.18 | 0.71 | 1.30 | 2.51 | 3.76 | 5.00 | 6.24 | 7.5 | 8.7 | 10.0 | 11.2 | 12.5 | 13.7 |
| 15 | 13 | 2, 3 | 50, 80 | | | 31 | 15 | 0.22 | 1.10 | 2.07 | 4.01 | 5.99 | 7.97 | 9.9 | 11.9 | 13.9 | 15.9 | 17.9 | 19.8 | 21.8 |
| 23 | 20 | 2, 3, 4 | 50, 80, 100 | | | 38 | 15 | 0.37 | 0.94 | 1.77 | 4.12 | 6.75 | 9.4 | 12.0 | 14.6 | 17.3 | 19.9 | 22.5 | 25.2 | 27.8 |
| 37 | 32 | 2, 3, 4 | 50, 80, 100 | | | 50 | 30 | 0.63 | 1.72 | 3.74 | 8.30 | 12.9 | 17.5 | 22.1 | 26.7 | 31.3 | 35.9 | 40.5 | 45.1 | 49.7 |
| 60 | 50 | 3, 4, 6 | 80, 100, 150 | | | 63 | 30 | 1.2 | 2.0 | 4.7 | 11.2 | 18.3 | 25.4 | 32.5 | 39.6 | 46.7 | 53.8 | 60.9 | 68.0 | 75.1 |
| 95 | 80 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 0.9 | 2.6 | 6.3 | 15.6 | 25.5 | 35.3 | 45.2 | 55.0 | 64.9 | 74.8 | 84.6 | 94.5 | 104.3 |
| 145 | 125 | 4, 6, 8, 10, 12 | 100, 150, 200, 250, 300 | | | 100 | 30 | 2.2 | 4.7 | 10.8 | 24.0 | 38.8 | 53.7 | 68.6 | 83.4 | 98.3 | 113.1 | 128.0 | 142.9 | 156.3 |
| 235 | 200 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 4.1 | 7.3 | 17.2 | 39.7 | 64.1 | 88.6 | 113.0 | 137.5 | 161.9 | 186.3 | 210.8 | 235.2 | 259.7 |
| 335 | 290 | 6, 8, 10, 12, 14, 16 | 150, 200, 250, 300, 350, 400 | | | 150 | 60 | 5.0 | 14.2 | 30.4 | 63.2 | 98.3 | 131.4 | 164.5 | 197.7 | 230.8 | 263.9 | 297.0 | 330.2 | 352.2 |
| 580 | 500 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 11.7 | 33.5 | 61.6 | 120.1 | 181.1 | 242.2 | 303.2 | 364.3 | 425.3 | 486.4 | 547.4 | 608.5 | 649.0 |
| 950 | 800 | 10, 12, 14, 16, 20 | 250, 300, 350, 400, 500 | | | 250 | 120 | 17.4 | 32.0 | 75.6 | 173.3 | 280.0 | 386.7 | 493.4 | 600.1 | 706.9 | 813.6 | 920.3 | 1027.0 | 1133.7 |
| 1400 | 1200 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 300 | 120 | 26.4 | 83.4 | 152.3 | 299.8 | 452.2 | 604.5 | 756.9 | 909.3 | 1061.7 | 1214.0 | 1366.4 | 1518.8 | 1630.7 |
| 1860 | 1600 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 34.9 | 69.0 | 140.3 | 315.3 | 509.6 | 703.8 | 898.0 | 1092.3 | 1286.5 | 1480.7 | 1674.9 | 1869.2 | 2063.4 |
| 2300 | 2000 | 16, 20 | 400, 500 | | | 400 | 120 | 42.3 | 132.2 | 239.7 | 462.3 | 697.2 | 932.2 | 1167.1 | 1402.1 | 1637.0 | 1872.0 | 2106.9 | 2341.9 | 2514.7 |

**Table 3251.27:** *$C_V$ coefficients (gpm) for Type 3251 Globe Valve: standard plug with flow divider ST 3, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.5 | 3 | 2, 3 | 50, 80 | ST 3 | Equal percentage | 24 | 15 | 0.090 | 0.108 | 0.13 | 0.20 | 0.28 | 0.41 | 0.57 | 0.81 | 1.22 | 1.87 | 3.0 | 4.9 | 7.1 |
| 5.6 | 4.8 | 2, 3 | 50, 80 | | | 24 | 15 | 0.16 | 0.20 | 0.25 | 0.38 | 0.56 | 0.80 | 1.14 | 1.68 | 2.5 | 3.6 | 5.3 | 7.5 | 9.7 |
| 9 | 7.5 | 2, 3 | 50, 80 | | | 24 | 15 | 0.25 | 0.32 | 0.42 | 0.65 | 0.94 | 1.30 | 1.78 | 2.5 | 3.5 | 5.1 | 7.5 | 10.5 | 12.0 |
| 14 | 12 | 3 | 80 | | | 31 | 15 | 0.39 | 0.52 | 0.65 | 1.01 | 1.47 | 2.11 | 3.0 | 4.4 | 6.9 | 11.1 | 15.2 | 18.5 | 20.9 |
| 23 | 20 | 3, 4 | 80, 100 | | | 38 | 15 | 0.46 | 0.61 | 0.76 | 1.12 | 1.67 | 2.6 | 4.5 | 7.9 | 12.6 | 17.1 | 21.4 | 25.2 | 28.0 |
| 35 | 30 | 3, 4 | 80, 100 | | | 50 | 30 | 0.73 | 0.98 | 1.32 | 2.07 | 3.0 | 4.2 | 6.4 | 9.7 | 14.3 | 21.1 | 30.3 | 40.0 | 47.7 |
| 55 | 47 | 4, 6 | 100, 150 | | | 63 | 30 | 1.39 | 1.55 | 1.8 | 2.6 | 3.9 | 5.8 | 8.7 | 13.7 | 20.8 | 32.0 | 45.8 | 59.5 | 67.5 |
| 90 | 75 | 6, 8, 10 | 150, 200, 250 | | | 80 | 30 | 1.6 | 1.9 | 2.5 | 4.0 | 6.6 | 10.7 | 17.0 | 26.5 | 41.8 | 60.5 | 75.5 | 84.6 | 90.2 |
| 140 | 120 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 100 | 30 | 3.0 | 4.0 | 5.5 | 8.8 | 13.2 | 19.5 | 33.1 | 53.7 | 79.1 | 97.9 | 115.6 | 126.8 | 134.3 |
| 220 | 190 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 4.7 | 6.5 | 8.3 | 13.6 | 21.1 | 31.1 | 44.3 | 62.4 | 95.9 | 147.2 | 183.0 | 199.7 | 206.6 |
| 315 | 270 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 150 | 60 | 6.6 | 8.7 | 11.9 | 18.7 | 27.8 | 41.0 | 59.6 | 92.4 | 154.9 | 223.4 | 276.2 | 307.8 | 324.7 |
| 560 | 480 | 10, 12, 14, 16 | 250, 300, 350, 400 | | | 200 | 60 | 10.9 | 17.3 | 20.0 | 32.8 | 64.8 | 118.6 | 200.8 | 295.4 | 378.2 | 449.1 | 506.1 | 543.0 | 564.1 |
| 880 | 750 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 250 | 120 | 17.9 | 25.1 | 35.3 | 59.3 | 91.8 | 136.8 | 205.6 | 292.0 | 434.6 | 601.6 | 756.1 | 869.3 | 916.7 |
| 1280 | 1100 | 14, 16, 20 | 350, 400, 500 | | | 300 | 120 | 23.2 | 35.9 | 50.5 | 84.8 | 131.2 | 195.6 | 294.0 | 418.9 | 625.4 | 875.4 | 1112.6 | 1296.4 | 1373.4 |
| 1730 | 1500 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 32.2 | 45.2 | 63.5 | 106.8 | 165.2 | 246.3 | 370.0 | 527.8 | 788.8 | 1108.3 | 1413.6 | 1654.2 | 1748.8 |
| – | 1900 | 20 | 500 | | | 400 | 120 | 40.6 | 56.9 | 80.1 | 134.6 | 208.3 | 310.5 | 466.6 | 666.2 | 996.7 | 1405.4 | 1798.9 | 2113.9 | 2229.5 |

**Table 3251.28:** *CV coefficients (gpm) for Type 3251 Globe Valve: standard plug with flow divider ST 3, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.5 | 3 | 2, 3 | 50, 80 | ST 3 | Linear | 24 | 15 | 0.046 | 0.14 | 0.38 | 0.89 | 1.39 | 1.90 | 2.4 | 2.9 | 3.4 | 3.9 | 4.4 | 4.9 | 5.4 |
| 5.6 | 4.8 | 2, 3 | 50, 80 | | | 24 | 15 | 0.112 | 0.36 | 0.76 | 1.52 | 2.3 | 3.1 | 3.9 | 4.6 | 5.4 | 6.2 | 7.0 | 7.7 | 8.5 |
| 9 | 7.5 | 2, 3 | 50, 80 | | | 24 | 15 | 0.18 | 0.71 | 1.30 | 2.5 | 3.7 | 4.9 | 6.2 | 7.4 | 8.6 | 9.9 | 11.1 | 12.3 | 13.6 |
| 14 | 12 | 3 | 80 | | | 31 | 15 | 0.22 | 1.10 | 2.07 | 4.0 | 5.9 | 7.9 | 9.8 | 11.8 | 13.8 | 15.7 | 17.7 | 19.6 | 21.6 |
| 23 | 20 | 3, 4 | 80, 100 | | | 38 | 15 | 0.37 | 0.94 | 1.77 | 4.1 | 6.7 | 9.3 | 11.9 | 14.5 | 17.1 | 19.7 | 22.3 | 24.9 | 27.5 |
| 35 | 30 | 3, 4 | 80, 100 | | | 50 | 30 | 0.63 | 1.72 | 3.7 | 8.2 | 12.8 | 17.3 | 21.9 | 26.4 | 31.0 | 35.5 | 40.1 | 44.6 | 49.2 |
| 55 | 47 | 4, 6 | 100, 150 | | | 63 | 30 | 1.18 | 2.03 | 4.7 | 11.0 | 18.1 | 25.1 | 32.1 | 39.1 | 46.1 | 53.2 | 60.2 | 67.2 | 74.2 |
| 90 | 75 | 6, 8, 10 | 150, 200, 250 | | | 80 | 30 | 0.85 | 2.6 | 6.1 | 14.8 | 24.2 | 33.5 | 42.9 | 52.2 | 61.6 | 70.9 | 80.3 | 89.6 | 99.0 |
| 140 | 120 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 100 | 30 | 2.21 | 4.7 | 10.3 | 21.9 | 35.5 | 49.1 | 62.7 | 76.3 | 89.9 | 103.5 | 117.1 | 130.7 | 143.0 |
| 220 | 190 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 4.1 | 7.3 | 16.3 | 35.9 | 58.1 | 80.2 | 102.3 | 124.5 | 146.6 | 168.7 | 190.9 | 213.0 | 235.1 |
| 315 | 270 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 150 | 60 | 5.0 | 14.2 | 27.9 | 58.0 | 90.1 | 120.5 | 150.8 | 181.2 | 211.6 | 241.9 | 272.3 | 302.7 | 322.8 |
| 560 | 480 | 10, 12, 14, 16 | 250, 300, 350, 400 | | | 200 | 60 | 11.7 | 33.5 | 57.6 | 106.1 | 160.1 | 214.0 | 268.0 | 321.9 | 375.9 | 429.8 | 483.8 | 537.7 | 573.5 |
| 880 | 750 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 250 | 120 | 17.4 | 32.0 | 69.5 | 147.9 | 239.0 | 330.1 | 421.2 | 512.3 | 603.4 | 694.5 | 785.6 | 876.7 | 967.8 |
| 1280 | 1100 | 14, 16, 20 | 350, 400, 500 | | | 300 | 120 | 26.4 | 83.4 | 139.2 | 253.4 | 382.2 | 511.0 | 639.8 | 768.6 | 897.3 | 1026.1 | 1154.9 | 1283.7 | 1378.3 |
| 1730 | 1500 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 34.9 | 69.0 | 131.0 | 277.8 | 448.9 | 620.0 | 791.1 | 962.2 | 1133.3 | 1304.4 | 1475.5 | 1646.6 | 1817.7 |
| – | 1900 | 20 | 500 | | | 400 | 120 | 42.3 | 132.2 | 227.0 | 418.2 | 630.8 | 843.4 | 1056.0 | 1268.5 | 1481.1 | 1693.7 | 1906.3 | 2118.8 | 2275.2 |

**Table 3251.29:** *CV coefficients (gpm) for Type 3251 Globe Valve: AC-1 trim with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 26 | 22 | 2, 3, 4 | 50, 80, 100 | AC-1 trim | Equal percentage | 38 | 15 | 0.40 | 0.49 | 0.64 | 1.1 | 1.7 | 2.7 | 4.0 | 5.8 | 9.0 | 14.5 | 19.8 | 24.7 | 28.4 |
| 40 | 35 | 2, 3 | 50, 80 | | | 50 | 30 | 0.66 | 0.75 | 0.95 | 1.7 | 2.8 | 4.3 | 6.6 | 9.7 | 15.0 | 26.5 | 35.7 | 41.6 | 46.0 |
| 45 | 38 | 4 | 100 | | | 50 | 30 | 0.80 | 0.98 | 1.2 | 2.0 | 3.1 | 4.6 | 6.8 | 10.1 | 15.2 | 22.6 | 33.3 | 45.8 | 58.1 |
| 60 | 50 | 3 | 80 | | | 63 | 30 | 1.07 | 1.3 | 1.7 | 2.6 | 4.1 | 6.1 | 9.0 | 13.3 | 19.9 | 29.8 | 43.9 | 59.1 | 73.6 |
| 65 | 55 | 4 | 100 | | | 63 | 30 | 1.2 | 1.4 | 1.8 | 2.9 | 4.5 | 6.7 | 9.9 | 14.6 | 21.9 | 32.7 | 48.2 | 66.4 | 84.0 |
| 70 | 60 | 3 | 80 | | | 80 | 30 | 1.3 | 1.6 | 2.0 | 3.2 | 4.9 | 7.3 | 10.9 | 16.2 | 23.9 | 37.2 | 59.4 | 75.5 | 87.1 |
| 80 | 70 | 3 | 80 | | | 80 | 30 | 1.7 | 2.3 | 3.0 | 4.8 | 7.4 | 10.8 | 15.9 | 22.8 | 32.7 | 46.6 | 65.3 | 84.3 | 100.2 |
| 90 | 75 | 4 | 100 | | | 80 | 30 | 1.6 | 1.9 | 2.5 | 3.9 | 6.2 | 9.2 | 13.5 | 19.9 | 29.9 | 44.6 | 65.8 | 88.7 | 110.4 |
| 90 | 75 | 4 | 100 | | | 100 | 30 | 1.7 | 2.1 | 2.6 | 4.1 | 6.4 | 9.4 | 14.1 | 21.0 | 30.9 | 48.1 | 76.8 | 97.7 | 112.6 |
| 110 | 95 | 6 | 150 | | | 80 | 30 | 2.0 | 2.5 | 3.1 | 5.0 | 7.8 | 11.6 | 17.1 | 25.2 | 37.9 | 56.5 | 83.3 | 114.6 | 145.1 |
| 120 | 100 | 4 | 100 | | | 100 | 30 | 2.5 | 3.4 | 4.6 | 7.8 | 12.2 | 18.3 | 26.5 | 37.9 | 55.2 | 75.6 | 97.1 | 113.3 | 122.0 |
| 170 | 145 | 6 | 150 | | | 100 | 30 | 3.1 | 3.7 | 4.7 | 7.6 | 11.9 | 17.7 | 26.0 | 38.5 | 57.9 | 86.3 | 127.2 | 171.5 | 213.4 |
| 180 | 155 | 8 | 200 | | | 100 | 30 | 3.3 | 4.0 | 5.1 | 8.2 | 12.7 | 19.0 | 27.8 | 41.2 | 61.8 | 92.3 | 135.9 | 187.0 | 236.8 |
| 240 | 205 | 6 | 150 | | | 125 | 60 | 4.1 | 5.0 | 6.4 | 10.3 | 16.0 | 23.8 | 35.0 | 51.8 | 77.8 | 116.1 | 171.0 | 230.6 | 287.0 |
| 240 | 205 | 6 | 150 | | | 150 | 60 | 4.6 | 5.6 | 6.9 | 11.0 | 17.0 | 25.1 | 37.6 | 56.0 | 82.3 | 128.4 | 204.8 | 260.5 | 300.4 |
| 270 | 230 | 8 | 200 | | | 125 | 60 | 4.9 | 5.9 | 7.5 | 12.1 | 18.9 | 28.1 | 41.3 | 61.1 | 91.8 | 136.9 | 201.7 | 277.5 | 351.4 |
| 290 | 250 | 6 | 150 | | | 150 | 60 | 6.0 | 7.8 | 10.4 | 17.6 | 27.5 | 41.7 | 61.9 | 90.4 | 128.9 | 187.9 | 248.0 | 286.0 | 307.9 |
| 360 | 305 | 8 | 200 | | | 150 | 60 | 6.4 | 7.9 | 10.0 | 16.1 | 25.0 | 37.3 | 54.8 | 81.0 | 121.7 | 181.5 | 264.4 | 367.9 | 465.6 |
| 420 | 360 | 8 | 200 | | | 200 | 60 | 6.9 | 8.4 | 10.4 | 16.5 | 25.4 | 37.7 | 56.4 | 83.9 | 123.5 | 192.6 | 307.1 | 413.9 | 478.3 |
| 560 | 480 | 8 | 200 | | | 200 | 60 | 11.8 | 14.2 | 18.5 | 29.5 | 46.1 | 69.6 | 103.2 | 157.9 | 253.7 | 364.5 | 457.2 | 523.9 | 573.7 |

**Table 3251.30:** *CV coefficients (gpm) for Type 3251 Globe Valve: AC-3 trim with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.5 | 0.4 | 1 | 25 | AC-3 trim | Equal percentage | 12 | 7.5 | 0.0024 | 0.0026 | 0.0032 | 0.0059 | 0.014 | 0.027 | 0.050 | 0.085 | 0.14 | 0.22 | 0.32 | 0.51 | 0.97 |
| 0.75 | 0.63 | 1, 1½ | 25, 40 | | | 16 | 7.5 | 0.012 | 0.015 | 0.019 | 0.029 | 0.046 | 0.076 | 0.12 | 0.18 | 0.27 | 0.38 | 0.55 | 0.80 | 1.3 |
| 1.2 | 1 | 1, 1½ | 25, 40 | | | 18 | 7.5 | 0.025 | 0.029 | 0.035 | 0.049 | 0.071 | 0.113 | 0.17 | 0.26 | 0.36 | 0.50 | 0.70 | 1.13 | 2.1 |
| 1.2 | 1 | 2 | 50 | | | 18 | 15 | 0.025 | 0.028 | 0.032 | 0.046 | 0.07 | 0.11 | 0.18 | 0.27 | 0.41 | 0.59 | 0.85 | 1.3 | 2.0 |
| 2 | 1.6 | 1, 1½ | 25, 40 | | | 22 | 7.5 | 0.040 | 0.047 | 0.056 | 0.078 | 0.113 | 0.18 | 0.28 | 0.42 | 0.58 | 0.80 | 1.13 | 1.8 | 3.3 |
| 2 | 1.6 | 2 | 50 | | | 22 | 15 | 0.040 | 0.044 | 0.051 | 0.073 | 0.115 | 0.18 | 0.28 | 0.44 | 0.65 | 0.94 | 1.4 | 2.0 | 3.2 |
| 3 | 2.5 | 1 | 25 | | | 22 | 7.5 | 0.025 | 0.031 | 0.045 | 0.092 | 0.17 | 0.28 | 0.43 | 0.64 | 0.94 | 1.5 | 2.4 | 3.2 | 3.7 |
| 3 | 2.5 | 1½ | 40 | | | 24 | 7.5 | 0.027 | 0.033 | 0.045 | 0.092 | 0.17 | 0.28 | 0.43 | 0.65 | 0.99 | 1.6 | 2.4 | 3.2 | 3.9 |
| 3 | 2.5 | 2, 3 | 50, 80 | | | 24 | 15 | 0.050 | 0.055 | 0.065 | 0.107 | 0.18 | 0.29 | 0.45 | 0.69 | 1.03 | 1.5 | 2.1 | 3.2 | 5.0 |
| 4 | 3.5 | 1 | 25 | | | 22 | 7.5 | 0.057 | 0.077 | 0.103 | 0.18 | 0.29 | 0.43 | 0.67 | 0.99 | 1.5 | 2.2 | 3.2 | 3.9 | 4.3 |
| 5 | 4 | 1½ | 40 | | | 31 | 7.5 | 0.076 | 0.089 | 0.107 | 0.16 | 0.25 | 0.39 | 0.58 | 0.87 | 1.3 | 1.9 | 3.0 | 4.5 | 6.1 |
| 5 | 4 | 2, 3, 4 | 50, 80, 100 | | | 31 | 15 | 0.058 | 0.078 | 0.104 | 0.17 | 0.29 | 0.46 | 0.72 | 1.10 | 1.7 | 2.4 | 3.4 | 5.1 | 8.0 |
| 7.5 | 6.3 | 1½ | 40 | | | 31 | 7.5 | 0.101 | 0.114 | 0.14 | 0.23 | 0.37 | 0.57 | 0.86 | 1.3 | 2.1 | 3.3 | 5.2 | 6.8 | 8.0 |
| 7.5 | 6.3 | 2, 3, 4, 6 | 50, 80, 100, 150 | | | 31 | 15 | 0.16 | 0.24 | 0.33 | 0.55 | 0.81 | 1.14 | 1.63 | 2.3 | 3.1 | 4.1 | 5.7 | 7.8 | 10.0 |
| 12 | 10 | 2, 3, 4, 6 | 50, 80, 100, 150 | | | 38 | 15 | 0.19 | 0.21 | 0.25 | 0.41 | 0.69 | 1.09 | 1.7 | 2.6 | 3.9 | 5.7 | 8.1 | 12.1 | 19.1 |
| 14 | 12 | 3, 4, 6 | 80, 100, 150 | | | 38 | 15 | 0.23 | 0.25 | 0.30 | 0.49 | 0.83 | 1.3 | 2.0 | 3.1 | 4.7 | 6.8 | 9.8 | 14.5 | 22.9 |
| 20 | 16 | 3, 4 | 80, 100 | | | 50 | 15 | 0.25 | 0.32 | 0.42 | 0.70 | 1.11 | 1.7 | 2.6 | 3.8 | 5.6 | 8.3 | 12.2 | 18.0 | 21.1 |
| 20 | 16 | 6, 8 | 150, 200 | | | 50 | 30 | 0.40 | 0.44 | 0.51 | 0.73 | 1.15 | 1.8 | 2.8 | 4.4 | 6.5 | 9.4 | 13.5 | 20.1 | 31.7 |
| 30 | 25 | 3, 4 | 80, 100 | | | 63 | 15 | 0.44 | 0.58 | 0.74 | 1.15 | 1.8 | 2.7 | 4.1 | 6.6 | 10.6 | 16.0 | 22.2 | 28.1 | 31.8 |
| 30 | 25 | 6, 8 | 150, 200 | | | 63 | 30 | 0.62 | 0.69 | 0.80 | 1.14 | 1.8 | 2.8 | 4.4 | 6.8 | 10.2 | 14.7 | 21.1 | 31.3 | 49.6 |
| 47 | 40 | 4 | 100 | | | 80 | 15 | 0.76 | 0.84 | 0.99 | 1.6 | 2.8 | 4.4 | 6.8 | 10.5 | 15.7 | 22.6 | 32.5 | 48.2 | 71.7 |
| 47 | 40 | 6, 8 | 150, 200 | | | 80 | 30 | 0.99 | 1.11 | 1.3 | 1.8 | 2.9 | 4.5 | 7.1 | 10.9 | 16.3 | 23.6 | 33.8 | 50.1 | 79.3 |
| 75 | 63 | 6, 8 | 150, 200 | | | 100 | 30 | 1.2 | 1.3 | 1.6 | 2.6 | 4.3 | 6.9 | 10.7 | 16.5 | 24.7 | 35.7 | 51.2 | 75.9 | 112.9 |
| 95 | 80 | 8 | 200 | | | 100 | 30 | 1.5 | 1.7 | 2.0 | 3.2 | 5.5 | 8.7 | 13.6 | 21.0 | 31.4 | 45.3 | 65.0 | 96.4 | 143.3 |

**Table 3251.31:** *CV coefficients (gpm) for Type 3251 Globe Valve: AC-3 trim with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.5 | 0.4 | 1 | 25 | AC-3 trim | Linear | 12 | 7.5 | 0.0071 | 0.023 | 0.048 | 0.099 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 |
| 0.75 | 0.63 | 1, 1½ | 25, 40 | | | 16 | 7.5 | 0.0112 | 0.036 | 0.076 | 0.16 | 0.23 | 0.31 | 0.39 | 0.47 | 0.55 | 0.63 | 0.71 | 0.79 | 0.86 |
| 1.2 | 1 | 1, 1½ | 25, 40 | | | 18 | 7.5 | 0.016 | 0.051 | 0.109 | 0.22 | 0.34 | 0.45 | 0.56 | 0.67 | 0.79 | 0.90 | 1.01 | 1.13 | 1.2 |
| 1.2 | 1 | 2 | 50 | | | 18 | 15 | 0.018 | 0.057 | 0.12 | 0.25 | 0.37 | 0.50 | 0.62 | 0.75 | 0.87 | 1.00 | 1.12 | 1.2 | 1.4 |
| 2 | 1.6 | 1, 1½ | 25, 40 | | | 22 | 7.5 | 0.027 | 0.085 | 0.18 | 0.37 | 0.56 | 0.74 | 0.93 | 1.11 | 1.3 | 1.5 | 1.7 | 1.9 | 2.0 |
| 2 | 1.6 | 2 | 50 | | | 22 | 15 | 0.028 | 0.091 | 0.19 | 0.40 | 0.60 | 0.80 | 1.00 | 1.2 | 1.4 | 1.6 | 1.8 | 2.0 | 2.2 |
| 3 | 2.5 | 1 | 25 | | | 22 | 7.5 | 0.042 | 0.13 | 0.28 | 0.59 | 0.88 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 | 3.2 |
| 3 | 2.5 | 1½ | 40 | | | 24 | 7.5 | 0.043 | 0.14 | 0.29 | 0.60 | 0.90 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 | 3.3 |
| 3 | 2.5 | 2, 3 | 50, 80 | | | 24 | 15 | 0.044 | 0.14 | 0.30 | 0.62 | 0.93 | 1.2 | 1.6 | 1.9 | 2.2 | 2.5 | 2.8 | 3.1 | 3.4 |
| 4 | 3.5 | 1 | 25 | | | 22 | 7.5 | 0.055 | 0.18 | 0.37 | 0.77 | 1.2 | 1.5 | 1.9 | 2.3 | 2.7 | 3.1 | 3.5 | 3.9 | 4.3 |
| 5 | 4 | 1½ | 40 | | | 31 | 7.5 | 0.065 | 0.21 | 0.44 | 0.91 | 1.4 | 1.8 | 2.3 | 2.8 | 3.2 | 3.7 | 4.1 | 4.6 | 5.1 |
| 5 | 4 | 2, 3, 4 | 50, 80, 100 | | | 31 | 15 | 0.071 | 0.23 | 0.48 | 0.99 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 |
| 7.5 | 6.3 | 1½ | 40 | | | 31 | 7.5 | 0.098 | 0.31 | 0.66 | 1.4 | 2.1 | 2.7 | 3.4 | 4.1 | 4.8 | 5.5 | 6.2 | 6.9 | 7.6 |
| 7.5 | 6.3 | 2, 3, 4, 6 | 50, 80, 100, 150 | | | 31 | 15 | 0.112 | 0.36 | 0.76 | 1.6 | 2.3 | 3.1 | 3.9 | 4.7 | 5.5 | 6.3 | 7.1 | 7.9 | 8.6 |
| 12 | 10 | 2, 3, 4, 6 | 50, 80, 100, 150 | | | 38 | 15 | 0.17 | 0.55 | 1.2 | 2.4 | 3.6 | 4.8 | 6.0 | 7.2 | 8.5 | 9.7 | 10.9 | 12.1 | 13.3 |
| 14 | 12 | 3, 4, 6 | 80, 100, 150 | | | 38 | 15 | 0.21 | 0.66 | 1.4 | 2.9 | 4.3 | 5.8 | 7.2 | 8.7 | 10.1 | 11.6 | 13.0 | 14.5 | 16.0 |
| 20 | 16 | 3, 4 | 80, 100 | | | 50 | 15 | 0.26 | 0.83 | 1.7 | 3.6 | 5.4 | 7.2 | 9.0 | 10.9 | 12.7 | 14.5 | 16.3 | 18.1 | 19.9 |
| 20 | 16 | 6, 8 | 150, 200 | | | 50 | 30 | 0.28 | 0.91 | 1.9 | 4.0 | 6.0 | 8.0 | 10.0 | 12.0 | 14.0 | 16.0 | 18.0 | 20.0 | 22.0 |
| 30 | 25 | 3, 4 | 80, 100 | | | 63 | 15 | 0.40 | 1.3 | 2.7 | 5.5 | 8.3 | 11.1 | 13.9 | 16.7 | 19.4 | 22.2 | 25.0 | 27.8 | 30.6 |
| 30 | 25 | 6, 8 | 150, 200 | | | 63 | 30 | 0.44 | 1.4 | 3.0 | 6.2 | 9.3 | 12.4 | 15.6 | 18.7 | 21.8 | 24.9 | 28.1 | 31.2 | 34.3 |
| 47 | 40 | 4 | 100 | | | 80 | 15 | 0.69 | 2.2 | 4.7 | 9.6 | 14.4 | 19.3 | 24.1 | 29.0 | 33.8 | 38.6 | 43.5 | 48.3 | 53.2 |
| 47 | 40 | 6, 8 | 150, 200 | | | 80 | 30 | 0.71 | 2.3 | 4.8 | 9.9 | 14.9 | 19.9 | 24.9 | 29.9 | 34.9 | 39.9 | 44.9 | 49.9 | 54.9 |
| 75 | 63 | 6, 8 | 150, 200 | | | 100 | 30 | 1.09 | 3.5 | 7.3 | 15.1 | 22.7 | 30.4 | 38.0 | 45.6 | 53.2 | 60.9 | 68.5 | 76.1 | 83.7 |
| 95 | 80 | 8 | 200 | | | 100 | 30 | 1.4 | 4.4 | 9.3 | 19.2 | 28.9 | 38.6 | 48.2 | 57.9 | 67.6 | 77.3 | 87.0 | 96.7 | 106.3 |

**Table 3251.32:** *$C_V$ coefficients (gpm) for Type 3251 Globe Valve: perforated plug without flow divider, with equal percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 5 | 4 | 1, 1½, 2, 3 | 25, 40, 50, 80 | Perforated plug | Equal percentage | 24 | 15 | 0.033 | 0.087 | 0.13 | 0.21 | 0.30 | 0.45 | 0.67 | 1.00 | 1.5 | 2.1 | 3.2 | 4.8 | 6.3 |
| 7.5 | 6.3 | 1, 1½, 2, 3 | 25, 40, 50, 80 | | | 24 | 15 | 0.073 | 0.16 | 0.22 | 0.33 | 0.51 | 0.71 | 1.06 | 1.7 | 2.6 | 3.7 | 5.2 | 6.8 | 7.5 |
| 12 | 10 | 1½, 2, 3 | 40, 50, 80 | | | 31 | 15 | 0.20 | 0.22 | 0.25 | 0.38 | 0.66 | 1.04 | 1.7 | 2.8 | 4.7 | 7.6 | 10.3 | 12.6 | 14.7 |
| 20 | 16 | 1½, 2, 3, 4 | 40, 50, 80, 100 | | | 38 | 15 | 0.33 | 0.50 | 0.68 | 1.10 | 1.5 | 2.2 | 3.2 | 5.0 | 8.2 | 11.6 | 15.0 | 18.2 | 21.2 |
| 30 | 25 | 2, 3, 4 | 50, 80, 100 | | | 50 | 15 | 0.54 | 0.92 | 1.2 | 1.7 | 2.6 | 3.9 | 6.9 | 11.1 | 15.9 | 20.6 | 25.3 | 29.7 | 33.8 |
| 42 | 36 | 2, 3, 4 | 50, 80, 100 | | | 50 | 30 | 0.42 | 1.06 | 1.4 | 2.1 | 3.4 | 5.4 | 9.0 | 14.2 | 20.5 | 28.1 | 35.6 | 41.6 | 46.2 |
| 62 | 54 | 3, 4, 6 | 80, 100, 150 | | | 63 | 30 | 0.62 | 0.94 | 1.2 | 1.8 | 3.3 | 5.6 | 9.5 | 17.1 | 27.5 | 40.1 | 53.5 | 63.1 | 68.7 |
| 75 | 63 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 0.73 | 1.2 | 1.7 | 3.0 | 4.7 | 7.0 | 10.3 | 16.2 | 29.4 | 46.8 | 62.0 | 74.1 | 83.8 |
| 95 | 80 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 0.92 | 1.2 | 1.5 | 2.5 | 4.7 | 11.2 | 22.7 | 42.7 | 59.9 | 74.9 | 88.2 | 99.4 | 107.1 |
| 120 | 100 | 4, 6, 8, 10, 12 | 100, 150, 200, 250, 300 | | | 100 | 30 | 1.2 | 1.5 | 2.0 | 3.7 | 6.6 | 11.1 | 18.3 | 30.2 | 47.2 | 68.7 | 94.7 | 115.7 | 128.2 |
| 190 | 160 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 1.8 | 2.3 | 3.1 | 6.6 | 11.6 | 17.8 | 26.2 | 39.1 | 57.9 | 93.6 | 143.4 | 187.7 | 223.2 |
| 290 | 250 | 6, 8, 10, 12, 14, 16 | 150, 200, 250, 300, 350, 399 | | | 150 | 60 | 2.9 | 4.2 | 5.7 | 10.5 | 17.7 | 27.9 | 42.8 | 77.3 | 128.7 | 191.2 | 249.1 | 289.8 | 321.9 |
| 420 | 360 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 4.2 | 5.3 | 6.9 | 12.8 | 20.4 | 35.8 | 63.4 | 108.7 | 174.6 | 252.0 | 337.6 | 414.5 | 456.2 |
| 485 | 420 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 4.9 | 6.5 | 9.7 | 22.8 | 61.6 | 115.6 | 172.3 | 234.7 | 301.6 | 373.1 | 449.7 | 530.9 | 574.6 |
| 735 | 630 | 10, 12, 14, 16, 20 | 250, 300, 350, 400, 500 | | | 250 | 120 | 7.3 | 8.1 | 10.5 | 21.3 | 39.0 | 63.8 | 100.1 | 157.3 | 268.2 | 426.6 | 603.5 | 772.8 | 823.1 |
| 1150 | 1000 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 300 | 120 | 11.6 | 13.2 | 16.9 | 32.8 | 61.5 | 100.8 | 163.7 | 289.0 | 496.0 | 748.0 | 995.4 | 1180.2 | 1298.4 |
| 1560 | 1350 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 15.0 | 16.2 | 19.1 | 43.4 | 83.9 | 143.1 | 278.6 | 478.6 | 716.8 | 995.4 | 1331.8 | 1615.0 | 1781.7 |
| 1900 | 1650 | 16, 20 | 400, 500 | | | 400 | 120 | 19.1 | 20.8 | 25.5 | 57.9 | 105.9 | 182.5 | 372.0 | 689.0 | 1033.5 | 1363.0 | 1655.5 | 1925.0 | 2111.3 |
| 2900 | 2500 | 20 | 500 | | | 500 | 120 | 28.9 | 32.4 | 44.3 | 103.3 | 181.5 | 342.2 | 752.6 | 1208.1 | 1653.2 | 2097.1 | 2517.9 | 2843.8 | 3111.1 |

**Table 3251.33:** *$C_V$ coefficients (gpm) for Type 3251 Globe Valve: perforated plug without flow divider, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 5 | 4 | 1, 1½,2, 3 | 25, 40, 50, 80 | Perforated plug | Linear | 24 | 15 | 0.046 | 0.29 | 0.48 | 0.91 | 1.4 | 1.9 | 2.4 | 2.9 | 3.5 | 4.1 | 4.9 | 5.6 | 6.4 |
| 7.5 | 6.3 | 1, 1½,2, 3 | 25, 40, 50, 80 | | | 24 | 15 | 0.085 | 0.50 | 0.85 | 1.5 | 2.3 | 3.0 | 3.7 | 4.4 | 5.2 | 6.0 | 6.7 | 7.5 | 8.3 |
| 12 | 10 | 1½, 2, 3 | 40, 50, 80 | | | 31 | 15 | 0.12 | 0.61 | 1.10 | 2.0 | 3.0 | 4.2 | 5.4 | 6.7 | 8.1 | 9.7 | 11.3 | 12.8 | 14.1 |
| 20 | 16 | 1½, 2, 3 | 40, 50, 80 | | | 31 | 15 | 0.33 | 1.7 | 3.1 | 5.4 | 7.8 | 10.2 | 12.5 | 14.3 | 15.7 | 17.0 | 18.1 | 19.1 | 20.0 |
| 30 | 25 | 1½, 2, 3, 4 | 40, 50, 80, 100 | | | 38 | 15 | 0.007 | 1.3 | 2.9 | 6.8 | 10.5 | 14.3 | 17.5 | 20.8 | 23.2 | 25.4 | 27.1 | 28.7 | 30.0 |
| 47 | 40 | 2, 3, 4 | 50, 80, 100 | | | 50 | 30 | 0.62 | 3.0 | 5.5 | 10.8 | 16.9 | 23.7 | 30.4 | 36.7 | 42.3 | 47.1 | 51.0 | 54.1 | 56.1 |
| 75 | 63 | 3, 4, 6 | 80, 100, 150 | | | 63 | 30 | 0.73 | 3.4 | 6.5 | 13.8 | 21.2 | 29.7 | 38.5 | 48.4 | 57.3 | 65.0 | 71.7 | 76.1 | 78.7 |
| 120 | 100 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 1.2 | 8.0 | 15.7 | 30.1 | 43.5 | 55.7 | 68.1 | 78.8 | 89.3 | 99.2 | 107.8 | 114.6 | 120.1 |
| 150 | 130 | 4, 6, 8, 10, 12 | 100, 150, 200, 250, 300 | | | 100 | 30 | 0.62 | 6.4 | 14.0 | 31.3 | 49.2 | 67.0 | 83.3 | 98.5 | 112.4 | 125.9 | 137.5 | 149.0 | 160.0 |
| 290 | 250 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 2.8 | 15.0 | 30.0 | 66.6 | 102.0 | 136.1 | 169.6 | 200.9 | 231.7 | 260.8 | 287.1 | 310.2 | 331.7 |
| 375 | 320 | 6, 8, 10, 12, 14, 16 | 150, 200, 250, 300, 350, 399 | | | 150 | 60 | 3.7 | 19.1 | 36.7 | 77.7 | 122.3 | 172.0 | 221.6 | 266.9 | 305.5 | 336.6 | 360.9 | 379.4 | 393.8 |
| 580 | 500 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 8.7 | 22.2 | 49.7 | 122.9 | 199.0 | 271.0 | 340.2 | 404.0 | 459.0 | 507.6 | 547.5 | 577.7 | 601.2 |
| 1040 | 900 | 10, 12, 14, 16, 20 | 250, 300, 350, 400, 500 | | | 250 | 120 | 10.4 | 52.0 | 106.0 | 227.7 | 353.8 | 478.6 | 603.5 | 724.9 | 833.5 | 932.9 | 1019.7 | 1084.7 | 1119.1 |
| 1500 | 1300 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 300 | 120 | 15.0 | 129.7 | 249.7 | 461.3 | 653.2 | 839.3 | 1015.0 | 1171.1 | 1298.3 | 1400.0 | 1479.8 | 1533.2 | 1565.7 |
| 2000 | 1700 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 19.7 | 101.7 | 194.0 | 409.3 | 642.8 | 897.7 | 1168.8 | 1404.6 | 1600.0 | 1776.9 | 1929.5 | 2028.9 | 2068.6 |
| 2450 | 2100 | 16, 20 | 400, 500 | | | 400 | 120 | 24.3 | 200.4 | 379.3 | 702.9 | 1011.6 | 1328.3 | 1622.0 | 1890.2 | 2115.6 | 2287.7 | 2421.7 | 2527.2 | 2569.1 |
| 3700 | 3200 | 20 | 500 | | | 500 | 120 | 37.0 | 261.5 | 487.2 | 984.3 | 1453.8 | 1890.5 | 2285.0 | 2642.9 | 2953.6 | 3227.9 | 3466.0 | 3657.6 | 3735.9 |

**Table 3251.34:** *$C_V$ coefficients (gpm) for Type 3251 Globe Valve: perforated plug with flow divider ST 1, with eq. percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 4.2 | 3.6 | 1, 1½,2, 3 | 25, 40, 50, 80 | Perforated plug and ST 1 | Equal percentage | 24 | 15 | 0.033 | 0.087 | 0.13 | 0.21 | 0.30 | 0.45 | 0.67 | 1.00 | 1.5 | 2.1 | 3.1 | 4.7 | 6.2 |
| 7 | 5.7 | 1, 1½,2, 3 | 25, 40, 50, 80 | | | 24 | 15 | 0.073 | 0.16 | 0.22 | 0.33 | 0.51 | 0.71 | 1.06 | 1.7 | 2.6 | 3.7 | 5.2 | 6.7 | 7.4 |
| 10.5 | 9 | 1½, 2, 3 | 40, 50, 80 | | | 31 | 15 | 0.20 | 0.22 | 0.25 | 0.38 | 0.66 | 1.04 | 1.7 | 2.8 | 4.7 | 7.5 | 10.2 | 12.5 | 14.6 |
| 17 | 14.5 | 1½, 2, 3, 4 | 40, 50, 80, 100 | | | 38 | 15 | 0.33 | 0.50 | 0.68 | 1.10 | 1.5 | 2.2 | 3.2 | 5.0 | 8.1 | 11.5 | 14.9 | 18.1 | 20.9 |
| 26 | 22 | 2, 3, 4 | 50, 80, 100 | | | 50 | 15 | 0.54 | 0.92 | 1.23 | 1.7 | 2.6 | 3.9 | 6.9 | 11.1 | 15.7 | 20.0 | 24.2 | 27.9 | 31.6 |
| 37 | 32 | 2, 3, 4 | 50, 80, 100 | | | 50 | 30 | 0.42 | 1.06 | 1.41 | 2.1 | 3.4 | 5.4 | 9.0 | 14.2 | 20.1 | 27.2 | 34.0 | 39.1 | 43.2 |
| 55 | 47 | 3, 4, 6 | 80, 100, 150 | | | 63 | 30 | 0.62 | 0.94 | 1.2 | 1.8 | 3.3 | 5.6 | 9.5 | 17.1 | 26.7 | 37.9 | 49.5 | 56.8 | 61.1 |
| 67 | 57 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 0.73 | 1.2 | 1.7 | 3.0 | 4.7 | 7.0 | 10.3 | 16.2 | 28.5 | 44.2 | 57.4 | 66.7 | 74.6 |
| 85 | 72 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 0.92 | 1.2 | 1.5 | 2.5 | 4.7 | 11.2 | 22.7 | 42.7 | 57.7 | 70.0 | 80.3 | 87.5 | 93.0 |
| 105 | 90 | 4, 6, 8, 10, 12 | 100, 150, 200, 250, 300 | | | 100 | 30 | 1.2 | 1.5 | 2.0 | 3.7 | 6.6 | 11.1 | 18.3 | 30.2 | 45.3 | 63.8 | 85.5 | 100.7 | 109.9 |
| 170 | 144 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 1.8 | 2.3 | 3.1 | 6.6 | 11.6 | 17.8 | 26.2 | 39.1 | 56.0 | 87.9 | 131.6 | 167.0 | 196.2 |
| 265 | 225 | 6, 8, 10, 12, 14, 16 | 150, 200, 250, 300, 350, 400 | | | 150 | 60 | 2.9 | 4.2 | 5.7 | 10.5 | 17.7 | 27.9 | 42.8 | 77.3 | 125.6 | 182.8 | 234.2 | 266.6 | 293.6 |
| 375 | 320 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 4.2 | 5.3 | 6.9 | 12.8 | 20.4 | 35.8 | 63.4 | 108.7 | 170.4 | 240.9 | 317.3 | 381.3 | 416.0 |
| 435 | 375 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 4.9 | 6.5 | 9.7 | 22.8 | 61.6 | 115.6 | 172.3 | 234.7 | 294.4 | 356.6 | 424.3 | 486.7 | 524.0 |
| 650 | 560 | 10, 12, 14, 16, 20 | 250, 300, 350, 400, 500 | | | 250 | 120 | 7.3 | 8.1 | 10.5 | 21.3 | 39.0 | 63.8 | 100.1 | 157.3 | 262.6 | 410.2 | 571.8 | 718.7 | 759.7 |
| 1040 | 900 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 300 | 120 | 11.6 | 13.2 | 16.9 | 32.8 | 61.5 | 100.8 | 163.7 | 289.0 | 480.3 | 704.8 | 917.0 | 1056.2 | 1148.4 |
| 1400 | 1200 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 15.0 | 16.2 | 19.1 | 43.4 | 83.9 | 143.1 | 278.6 | 478.6 | 699.6 | 951.6 | 1251.9 | 1485.8 | 1624.9 |
| 1730 | 1500 | 16, 20 | 400, 500 | | | 400 | 120 | 19.1 | 20.8 | 25.5 | 57.9 | 105.9 | 182.5 | 372.0 | 689.0 | 1008.7 | 1303.0 | 1556.2 | 1771.0 | 1925.5 |
| 2600 | 2250 | 20 | 500 | | | 500 | 120 | 28.9 | 32.4 | 44.3 | 103.3 | 181.5 | 342.2 | 752.6 | 1208.1 | 1613.5 | 2004.8 | 2366.8 | 2616.3 | 2837.4 |

**Table 3251.35:** *CV coefficients (gpm) for Type 3251 Globe Valve: perforated plug with flow divider ST 1, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 4.2 | 3.6 | 1, 1½, 2, 3 | 25, 40, 50, 80 | Perforated plug and ST 1 | Linear | 24 | 15 | 0.046 | 0.29 | 0.48 | 0.90 | 1.4 | 1.9 | 2.3 | 2.9 | 3.4 | 4.1 | 4.8 | 5.6 | 6.3 |
| 7 | 5.7 | 1, 1½, 2, 3 | 25, 40, 50, 80 | | | 24 | 15 | 0.085 | 0.50 | 0.84 | 1.5 | 2.2 | 3.0 | 3.7 | 4.4 | 5.1 | 5.9 | 6.7 | 7.4 | 8.2 |
| 10.5 | 9 | 1½, 2, 3 | 40, 50, 80 | | | 31 | 15 | 0.12 | 0.61 | 1.09 | 2.0 | 3.0 | 4.1 | 5.3 | 6.7 | 8.1 | 9.6 | 11.2 | 12.7 | 13.9 |
| 17 | 14.5 | 1½, 2, 3 | 40, 50, 80 | | | 31 | 15 | 0.33 | 1.73 | 3.0 | 5.4 | 7.8 | 10.1 | 12.3 | 14.1 | 15.5 | 16.8 | 17.9 | 18.9 | 19.8 |
| 26 | 22 | 1½, 2, 3, 4 | 40, 50, 80, 100 | | | 38 | 15 | 0.007 | 1.3 | 2.7 | 6.2 | 9.6 | 13.0 | 16.0 | 18.9 | 21.1 | 23.1 | 24.7 | 26.1 | 27.3 |
| 42 | 36 | 2, 3, 4 | 50, 80, 100 | | | 50 | 30 | 0.62 | 3.0 | 5.2 | 10.0 | 15.7 | 22.1 | 28.3 | 34.2 | 39.3 | 43.8 | 47.4 | 50.3 | 52.2 |
| 67 | 57 | 3, 4, 6 | 80, 100, 150 | | | 63 | 30 | 0.73 | 3.4 | 6.0 | 12.1 | 18.6 | 26.1 | 33.9 | 42.6 | 50.4 | 57.2 | 63.1 | 67.0 | 69.2 |
| 105 | 90 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 1.2 | 8.0 | 14.6 | 26.5 | 38.3 | 49.0 | 59.9 | 69.4 | 78.6 | 87.3 | 94.9 | 100.8 | 105.7 |
| 135 | 115 | 4, 6, 8, 10, 12 | 100, 150, 200, 250, 300 | | | 100 | 30 | 0.62 | 6.4 | 13.2 | 28.2 | 44.3 | 60.3 | 75.0 | 88.6 | 101.1 | 113.3 | 123.7 | 134.1 | 144.0 |
| 265 | 225 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 2.8 | 15.0 | 26.4 | 53.3 | 81.6 | 108.9 | 135.7 | 160.7 | 185.3 | 208.6 | 229.6 | 248.1 | 265.3 |
| 325 | 280 | 6, 8, 10, 12, 14, 16 | 150, 200, 250, 300, 350, 400 | | | 150 | 60 | 3.7 | 19.1 | 35.0 | 71.5 | 112.5 | 158.3 | 203.9 | 245.6 | 281.1 | 309.7 | 332.1 | 349.1 | 362.3 |
| 520 | 450 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 8.7 | 22.2 | 47.6 | 114.3 | 185.0 | 252.1 | 316.4 | 375.7 | 426.8 | 472.1 | 509.2 | 537.3 | 559.1 |
| 950 | 800 | 10, 12, 14, 16, 20 | 250, 300, 350, 400, 500 | | | 250 | 120 | 10.4 | 52.0 | 100.2 | 207.2 | 321.9 | 435.5 | 549.2 | 659.6 | 758.5 | 849.0 | 928.0 | 987.1 | 1018.3 |
| 1350 | 1150 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 300 | 120 | 15.0 | 129.7 | 234.7 | 415.1 | 587.9 | 755.4 | 913.5 | 1054.0 | 1168.4 | 1260.0 | 1331.8 | 1379.9 | 1409.1 |
| 1800 | 1530 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 19.7 | 101.7 | 188.6 | 386.3 | 599.1 | 829.4 | 1075.3 | 1292.3 | 1472.0 | 1634.7 | 1775.1 | 1866.6 | 1903.1 |
| 2200 | 1900 | 16, 20 | 400, 500 | | | 400 | 120 | 24.3 | 200.4 | 368.7 | 669.2 | 950.9 | 1232.7 | 1492.2 | 1739.0 | 1946.4 | 2104.7 | 2228.0 | 2325.0 | 2363.6 |
| 3300 | 2900 | 20 | 500 | | | 500 | 120 | 37.0 | 261.5 | 463.9 | 905.6 | 1337.5 | 1739.3 | 2102.2 | 2431.4 | 2717.3 | 2969.6 | 3188.7 | 3365.0 | 3437.0 |

**Table 3251.36:** *$C_V$ coefficients (gpm) for Type 3251 Globe Valve: perforated plug with flow divider ST 2, with eq. percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.7 | 3.2 | 2, 3 | 50, 80 | Perforated plug and ST 2 | Equal percentage | 24 | 15 | 0.033 | 0.087 | 0.13 | 0.21 | 0.30 | 0.45 | 0.67 | 1.00 | 1.5 | 2.1 | 3.1 | 4.7 | 6.1 |
| 6 | 5 | 2, 3 | 50, 80 | | | 24 | 15 | 0.073 | 0.16 | 0.22 | 0.33 | 0.51 | 0.71 | 1.06 | 1.7 | 2.6 | 3.7 | 5.1 | 6.6 | 7.3 |
| 9.5 | 8 | 2, 3 | 50, 80 | | | 31 | 15 | 0.20 | 0.22 | 0.25 | 0.38 | 0.66 | 1.04 | 1.7 | 2.8 | 4.7 | 7.5 | 10.1 | 12.3 | 14.4 |
| 15 | 13 | 2, 3, 4 | 50, 80, 100 | | | 38 | 15 | 0.33 | 0.50 | 0.68 | 1.10 | 1.5 | 2.2 | 3.2 | 5.0 | 8.1 | 11.4 | 14.8 | 17.9 | 20.7 |
| 23 | 20 | 2, 3, 4 | 50, 80, 100 | | | 50 | 15 | 0.54 | 0.92 | 1.23 | 1.7 | 2.6 | 3.9 | 6.9 | 11.1 | 15.6 | 19.8 | 24.0 | 27.6 | 31.2 |
| 34 | 29 | 2, 3, 4 | 50, 80, 100 | | | 50 | 30 | 0.42 | 1.06 | 1.41 | 2.1 | 3.4 | 5.4 | 9.0 | 14.2 | 20.0 | 27.0 | 33.7 | 38.7 | 42.7 |
| 50 | 43 | 3, 4, 6 | 80, 100, 150 | | | 63 | 30 | 0.62 | 0.94 | 1.2 | 1.8 | 3.3 | 5.6 | 9.5 | 17.1 | 26.6 | 37.7 | 49.1 | 56.1 | 60.4 |
| 60 | 50 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 0.73 | 1.2 | 1.7 | 3.0 | 4.7 | 7.0 | 10.3 | 16.2 | 28.4 | 44.0 | 56.9 | 65.9 | 73.7 |
| 75 | 63 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 0.92 | 1.2 | 1.5 | 2.5 | 4.7 | 11.2 | 22.7 | 42.0 | 58.1 | 69.3 | 78.3 | 84.5 | 88.6 |
| 95 | 80 | 4, 6, 8, 10, 12 | 100, 150, 200, 250, 300 | | | 100 | 30 | 1.2 | 1.5 | 2.0 | 3.7 | 6.6 | 11.1 | 18.3 | 29.6 | 45.5 | 62.5 | 81.9 | 94.9 | 101.7 |
| 145 | 125 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 1.8 | 2.3 | 3.1 | 6.6 | 11.6 | 17.8 | 26.2 | 38.4 | 55.8 | 85.1 | 124.1 | 153.9 | 177.0 |
| 235 | 200 | 6, 8, 10, 12, 14, 16 | 150, 200, 250, 300, 350, 400 | | | 150 | 60 | 2.9 | 4.2 | 5.7 | 10.5 | 17.7 | 27.9 | 42.8 | 76.1 | 124.6 | 175.9 | 219.2 | 243.4 | 262.7 |
| 335 | 290 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 4.2 | 5.3 | 6.9 | 12.8 | 20.4 | 35.8 | 63.4 | 106.9 | 169.0 | 231.9 | 297.1 | 348.2 | 372.2 |
| 390 | 340 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 4.9 | 6.5 | 9.7 | 22.8 | 61.6 | 115.6 | 172.3 | 230.9 | 292.0 | 343.2 | 398.8 | 445.9 | 468.8 |
| 580 | 500 | 10, 12, 14, 16, 20 | 250, 300, 350, 400, 500 | | | 250 | 120 | 7.3 | 8.1 | 10.5 | 21.3 | 39.0 | 63.8 | 100.1 | 157.3 | 256.9 | 393.7 | 540.1 | 664.6 | 696.4 |
| 950 | 800 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 300 | 120 | 11.6 | 13.2 | 16.9 | 32.8 | 61.5 | 100.8 | 163.7 | 284.7 | 481.1 | 691.9 | 883.4 | 1003.1 | 1074.4 |
| 1250 | 1080 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 15.0 | 16.2 | 19.1 | 43.4 | 83.9 | 143.1 | 278.6 | 471.0 | 693.8 | 915.7 | 1172.0 | 1356.6 | 1453.8 |
| 1530 | 1320 | 16, 20 | 400, 500 | | | 400 | 120 | 19.1 | 20.8 | 25.5 | 57.9 | 105.9 | 182.5 | 372.0 | 678.0 | 1000.5 | 1254.0 | 1456.8 | 1617.0 | 1722.8 |

**Table 3251.37:** *CV coefficients (gpm) for Type 3251 Globe Valve: perforated plug with flow divider ST 2, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.7 | 3.2 | 2, 3 | 50, 80 | Perforated plug and ST 2 | Linear | 24 | 15 | 0.046 | 0.29 | 0.48 | 0.89 | 1.4 | 1.9 | 2.3 | 2.9 | 3.4 | 4.0 | 4.8 | 5.5 | 6.2 |
| 6 | 5 | 2, 3 | 50, 80 | | | 24 | 15 | 0.085 | 0.50 | 0.84 | 1.5 | 2.2 | 2.9 | 3.6 | 4.3 | 5.1 | 5.8 | 6.6 | 7.4 | 8.1 |
| 9.5 | 8 | 2, 3 | 50, 80 | | | 31 | 15 | 0.12 | 0.61 | 1.09 | 2.0 | 3.0 | 4.1 | 5.3 | 6.6 | 8.0 | 9.5 | 11.1 | 12.6 | 13.8 |
| 15 | 13 | 2, 3 | 50, 80 | | | 31 | 15 | 0.33 | 1.7 | 3.0 | 5.3 | 7.7 | 10.0 | 12.2 | 14.0 | 15.3 | 16.6 | 17.7 | 18.7 | 19.6 |
| 23 | 20 | 2, 3, 4 | 50, 80, 100 | | | 38 | 15 | 0.007 | 1.3 | 2.6 | 5.5 | 8.5 | 11.6 | 14.2 | 16.8 | 18.8 | 20.6 | 22.0 | 23.3 | 24.3 |
| 37 | 32 | 2, 3, 4 | 50, 80, 100 | | | 50 | 30 | 0.62 | 3.0 | 5.2 | 9.9 | 15.5 | 21.8 | 28.0 | 33.8 | 38.9 | 43.3 | 46.9 | 49.8 | 51.6 |
| 60 | 50 | 3, 4, 6 | 80, 100, 150 | | | 63 | 30 | 0.73 | 3.4 | 6.0 | 12.0 | 18.4 | 25.8 | 33.5 | 42.1 | 49.8 | 56.6 | 62.3 | 66.2 | 68.4 |
| 95 | 80 | 3, 4, 6, 8, 10 | 80, 100, 150, 200, 250 | | | 80 | 30 | 1.2 | 8.0 | 14.2 | 25.3 | 36.5 | 46.8 | 57.2 | 66.2 | 75.0 | 83.3 | 90.5 | 96.2 | 100.9 |
| 120 | 105 | 4, 6, 8, 10, 12 | 100, 150, 200, 250, 300 | | | 100 | 30 | 0.62 | 6.4 | 12.5 | 25.7 | 40.4 | 54.9 | 68.3 | 80.8 | 92.1 | 103.2 | 112.7 | 122.2 | 131.2 |
| 235 | 200 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 2.8 | 14.3 | 25.3 | 49.3 | 75.5 | 100.7 | 125.5 | 148.7 | 171.4 | 193.0 | 212.4 | 229.5 | 245.4 |
| 295 | 255 | 6, 8, 10, 12, 14, 16 | 150, 200, 250, 300, 350, 400 | | | 150 | 60 | 3.7 | 19.1 | 33.2 | 65.3 | 102.7 | 144.5 | 186.2 | 224.2 | 256.7 | 282.8 | 303.2 | 318.7 | 330.8 |
| 465 | 400 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 200 | 60 | 8.7 | 22.2 | 45.5 | 105.7 | 171.1 | 233.1 | 292.6 | 347.4 | 394.7 | 436.6 | 470.9 | 496.8 | 517.0 |
| 835 | 720 | 10, 12, 14, 16, 20 | 250, 300, 350, 400, 500 | | | 250 | 120 | 10.4 | 52.0 | 94.5 | 186.8 | 290.1 | 392.5 | 494.8 | 594.4 | 683.5 | 765.0 | 836.2 | 889.5 | 917.6 |
| 1200 | 1030 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 300 | 120 | 15.0 | 129.7 | 219.7 | 400.0 | 552.6 | 693.6 | 832.3 | 960.3 | 1064.6 | 1148.0 | 1213.4 | 1257.2 | 1283.9 |
| 1560 | 1350 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 19.7 | 101.7 | 183.1 | 363.4 | 555.4 | 761.2 | 981.8 | 1179.9 | 1344.0 | 1492.6 | 1620.8 | 1704.3 | 1737.6 |
| 1940 | 1680 | 16, 20 | 400, 500 | | | 400 | 120 | 24.3 | 200.4 | 358.1 | 635.4 | 890.2 | 1137.0 | 1362.5 | 1587.7 | 1777.1 | 1921.7 | 2034.3 | 2122.9 | 2158.0 |

**Table 3251.38:** *$C_V$ coefficients (gpm) for Type 3251 Globe Valve: perforated plug with flow divider ST 3, with eq. percentage characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.5 | 3 | 2, 3 | 50, 80 | Perforated plug and ST 3 | Equal percentage | 24 | 15 | 0.033 | 0.087 | 0.13 | 0.21 | 0.30 | 0.45 | 0.67 | 1.00 | 1.5 | 2.1 | 3.1 | 4.6 | 6.1 |
| 5.6 | 4.8 | 2, 3 | 50, 80 | | | 24 | 15 | 0.073 | 0.16 | 0.22 | 0.33 | 0.51 | 0.71 | 1.06 | 1.7 | 2.6 | 3.7 | 5.1 | 6.5 | 7.3 |
| 9 | 7.5 | 3 | 80 | | | 31 | 15 | 0.20 | 0.22 | 0.25 | 0.38 | 0.66 | 1.04 | 1.7 | 2.8 | 4.7 | 7.4 | 10.0 | 12.2 | 14.3 |
| 14 | 12 | 3, 4 | 80, 100 | | | 38 | 15 | 0.33 | 0.50 | 0.68 | 1.10 | 1.5 | 2.2 | 3.2 | 5.0 | 8.1 | 11.4 | 14.7 | 17.7 | 20.5 |
| 23 | 20 | 3, 4 | 80, 100 | | | 50 | 15 | 0.54 | 0.92 | 1.23 | 1.7 | 2.6 | 3.9 | 6.9 | 11.1 | 15.6 | 19.7 | 23.8 | 27.3 | 30.8 |
| 31 | 27 | 3, 4 | 80, 100 | | | 50 | 30 | 0.42 | 1.06 | 1.41 | 2.1 | 3.4 | 5.4 | 9.0 | 14.2 | 20.0 | 26.9 | 33.5 | 38.3 | 42.1 |
| 47 | 40 | 4, 6 | 100, 150 | | | 63 | 30 | 0.62 | 0.94 | 1.2 | 1.8 | 3.3 | 5.6 | 9.5 | 17.1 | 26.5 | 37.5 | 48.7 | 55.5 | 59.6 |
| 55 | 47 | 6, 8, 10 | 150, 200, 250 | | | 80 | 30 | 0.73 | 1.2 | 1.7 | 3.0 | 4.7 | 7.0 | 10.3 | 16.2 | 28.3 | 43.7 | 56.4 | 65.2 | 72.7 |
| 70 | 60 | 6, 8, 10 | 150, 200, 250 | | | 80 | 30 | 0.92 | 1.2 | 1.5 | 2.5 | 4.7 | 11.2 | 22.7 | 41.9 | 57.7 | 68.2 | 76.3 | 81.5 | 84.9 |
| 90 | 75 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 100 | 30 | 1.2 | 1.5 | 2.0 | 3.7 | 6.6 | 11.1 | 18.3 | 29.5 | 45.1 | 61.1 | 79.1 | 90.3 | 95.8 |
| 140 | 120 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 1.8 | 2.3 | 3.1 | 6.6 | 11.6 | 17.8 | 26.2 | 38.1 | 54.9 | 81.4 | 115.5 | 138.9 | 156.5 |
| 220 | 190 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 150 | 60 | 2.9 | 4.2 | 5.7 | 10.5 | 17.7 | 27.9 | 42.8 | 75.9 | 124.0 | 174.0 | 215.5 | 237.6 | 255.3 |
| 315 | 270 | 10, 12, 14, 16 | 250, 300, 350, 400 | | | 200 | 60 | 4.2 | 5.3 | 6.9 | 12.8 | 20.4 | 35.8 | 63.4 | 106.2 | 166.5 | 223.0 | 279.3 | 319.2 | 335.5 |
| 365 | 315 | 10, 12, 14, 16 | 250, 300, 350, 400 | | | 200 | 60 | 4.9 | 6.5 | 9.7 | 22.8 | 61.6 | 115.6 | 172.3 | 229.6 | 284.3 | 332.7 | 380.3 | 419.7 | 437.0 |
| 560 | 480 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 250 | 120 | 7.3 | 8.1 | 10.5 | 21.3 | 39.0 | 63.8 | 100.1 | 153.8 | 256.4 | 379.7 | 503.9 | 602.8 | 626.6 |
| 880 | 750 | 14, 16, 20 | 350, 400, 500 | | | 300 | 120 | 11.6 | 13.2 | 16.9 | 32.8 | 61.5 | 100.8 | 163.7 | 280.9 | 468.2 | 643.3 | 786.3 | 849.7 | 880.3 |
| 1150 | 1000 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 15.0 | 16.2 | 19.1 | 43.4 | 83.9 | 143.1 | 278.6 | 465.7 | 678.1 | 887.9 | 1062.1 | 1179.0 | 1228.5 |
| 1450 | 1250 | 20 | 500 | | | 400 | 120 | 19.1 | 20.8 | 25.5 | 57.9 | 105.9 | 182.5 | 372.0 | 671.1 | 979.8 | 1185.8 | 1332.7 | 1424.5 | 1480.0 |

**Table 3251.39:** *CV coefficients (gpm) for Type 3251 Globe Valve: perforated plug with flow divider ST 3, with linear characteristic · Version with bellows seal, up to max. 100 % travel*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 3.5 | 3 | 2, 3 | 50, 80 | Perforated plug and ST 3 | Linear | 24 | 15 | 0.046 | 0.29 | 0.47 | 0.88 | 1.3 | 1.8 | 2.3 | 2.8 | 3.4 | 4.0 | 4.7 | 5.4 | 6.2 |
| 5.6 | 4.8 | 2, 3 | 50, 80 | | | 24 | 15 | 0.085 | 0.50 | 0.83 | 1.5 | 2.2 | 2.9 | 3.6 | 4.3 | 5.0 | 5.8 | 6.5 | 7.3 | 8.0 |
| 9 | 7.5 | 3 | 80 | | | 31 | 15 | 0.12 | 0.61 | 1.08 | 2.0 | 2.9 | 4.1 | 5.2 | 6.5 | 7.9 | 9.4 | 11.0 | 12.4 | 13.6 |
| 14 | 12 | 3 | 80 | | | 31 | 15 | 0.33 | 1.7 | 3.0 | 5.3 | 7.6 | 9.9 | 12.1 | 13.8 | 15.2 | 16.5 | 17.5 | 18.5 | 19.4 |
| 23 | 20 | 3, 4 | 80, 100 | | | 38 | 15 | 0.007 | 1.3 | 2.7 | 6.1 | 9.4 | 12.7 | 15.6 | 18.5 | 20.7 | 22.6 | 24.1 | 25.5 | 26.7 |
| 35 | 30 | 3, 4 | 80, 100 | | | 50 | 30 | 0.62 | 3.0 | 5.2 | 9.8 | 15.4 | 21.6 | 27.6 | 33.4 | 38.5 | 42.8 | 46.4 | 49.3 | 51.1 |
| 55 | 47 | 4, 6 | 100, 150 | | | 63 | 30 | 0.73 | 3.4 | 5.9 | 11.8 | 18.2 | 25.6 | 33.1 | 41.6 | 49.3 | 55.9 | 61.6 | 65.4 | 67.7 |
| 90 | 75 | 6, 8, 10 | 150, 200, 250 | | | 80 | 30 | 1.2 | 8.0 | 14.0 | 24.7 | 35.6 | 45.7 | 55.8 | 64.7 | 73.2 | 81.3 | 88.4 | 93.9 | 98.5 |
| 120 | 100 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 100 | 30 | 0.6 | 6.4 | 11.9 | 23.5 | 36.9 | 50.3 | 62.5 | 73.9 | 84.3 | 94.4 | 103.1 | 111.8 | 120.0 |
| 220 | 190 | 6, 8, 10, 12 | 150, 200, 250, 300 | | | 125 | 60 | 2.8 | 14.2 | 24.0 | 44.6 | 68.3 | 91.2 | 113.6 | 134.6 | 155.2 | 174.7 | 192.3 | 207.8 | 222.2 |
| 270 | 230 | 8, 10, 12, 14, 16 | 200, 250, 300, 350, 400 | | | 150 | 60 | 3.7 | 19.1 | 31.7 | 59.8 | 94.2 | 132.5 | 170.6 | 205.5 | 235.3 | 259.2 | 277.9 | 292.2 | 303.2 |
| 435 | 375 | 10, 12, 14, 16 | 250, 300, 350, 400 | | | 200 | 60 | 8.7 | 22.2 | 42.6 | 93.4 | 151.2 | 206.0 | 258.6 | 307.0 | 348.8 | 385.8 | 416.1 | 439.1 | 456.9 |
| 780 | 675 | 12, 14, 16, 20 | 300, 350, 400, 500 | | | 250 | 120 | 10.4 | 52.0 | 86.9 | 159.4 | 247.6 | 335.0 | 422.4 | 507.4 | 583.5 | 653.1 | 713.8 | 759.3 | 783.3 |
| 1100 | 950 | 14, 16, 20 | 350, 400, 500 | | | 300 | 120 | 15.0 | 129.7 | 217.1 | 360.9 | 491.2 | 606.9 | 720.7 | 831.5 | 921.8 | 994.0 | 1050.6 | 1088.6 | 1111.6 |
| 1475 | 1275 | 14, 16, 20 | 350, 400, 500 | | | 350 | 120 | 19.7 | 101.7 | 176.4 | 334.8 | 500.7 | 675.9 | 864.9 | 1039.4 | 1184.0 | 1314.9 | 1427.8 | 1501.4 | 1530.7 |
| 1860 | 1600 | 20 | 500 | | | 400 | 120 | 24.3 | 200.4 | 347.5 | 601.7 | 829.5 | 1041.4 | 1232.7 | 1436.5 | 1607.9 | 1738.6 | 1840.5 | 1920.7 | 1952.5 |

**Table 3251.40:** *$C_V$ coefficients (gpm) for Type 3251 Globe Valve: without valve trim (PN 40)*

| Seat Ø [mm] | Flow coefficient ($C_V$) without valve trim | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NPS ½ | NPS 1 | NPS 1½ | NPS 2 | NPS 3 | NPS 4 | NPS 6 | NPS 8 | NPS 10 | NPS 12 | NPS 14 | NPS 16 | NPS 20 |
| 6 | 1.5 | 1.7 | 2.1 | – | – | – | – | – | – | – | – | – | – |
| 12 | 5.2 | 5.7 | 5.8 | – | – | – | – | – | – | – | – | – | – |
| 24 | 5.7 | 16.2 | 21 | 24 | 26.5 | – | – | – | – | – | – | – | – |
| 31 | – | – | 30 | 37 | 41.5 | – | – | – | – | – | – | – | – |
| 38 | – | – | 34.5 | 47.5 | 48.5 | 52 | – | – | – | – | – | – | – |
| 50 | – | – | – | 58 | 93 | 95 | – | – | – | – | – | – | – |
| 63 | – | – | – | – | 125 | 141 | 162 | – | – | – | – | – | – |
| 80 | – | – | – | – | 141 | 173 | 249 | 255 | 260 | – | – | – | – |
| 100 | – | – | – | – | – | 217 | 271 | 364 | 375 | 380 | – | – | – |
| 125 | – | – | – | – | – | – | 385 | 572 | 583 | 591 | – | – | – |
| 150 | – | – | – | – | – | – | 465 | 750 | 809 | 820 | 827 | 827 | – |
| 200 | – | – | – | – | – | – | – | 807 | 1190 | 1365 | 1450 | 1470 | – |
| 250 | – | – | – | – | – | – | – | – | 1330 | 1770 | 2140 | 2195 | – |
| 300 | – | – | – | – | – | – | – | – | – | 1910 | 2830 | 2890 | – |
| 350 | – | – | – | – | – | – | – | – | – | – | 3240 | 3295 | 4045 |
| 400 | – | – | – | – | – | – | – | – | – | – | – | 3410 | 4740 |
| 500 | – | – | – | – | – | – | – | – | – | – | – | – | 5430 |

**T 8000-3 EN · Section on Type 3321 EN**

**Type 3321 Globe Valve (V2001)**

**$K_V$ coefficients (m³/h) for Type 3321 Globe Valve**
**With standard plug**
Without flow divider
With inherent characteristic ..... Table 3321.1
With flow divider
With inherent characteristic ..... Table 3321.2

**$C_V$ coefficients (gpm) for Type 3321 Globe Valve**
**With standard plug**
Without flow divider
With inherent characteristic ..... Table 3321.3
With flow divider
With inherent characteristic ..... Table 3321.4

**Table 3321.1:** *$K_V$ coefficients ($m^3/h$) for Type 3321 Globe Valve: standard plug without flow divider, with inherent characteristic*

| | | | | | | | | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.25 | 0.3 | 15 | ½ | Without | Inherent characteristic according to T 8000-3 | 3 | 15 | 0.0038 | 0.0044 | 0.0054 | 0.0082 | 0.0136 | 0.0210 | 0.0318 | 0.0482 | 0.0766 | 0.119 | 0.185 | 0.274 | 0.315 |
| 0.63 | 0.75 | 15 | ½ | | | 6 | 15 | 0.013 | 0.019 | 0.024 | 0.036 | 0.053 | 0.072 | 0.103 | 0.143 | 0.213 | 0.315 | 0.461 | 0.676 | 1.0 |
| 1.6 | 2 | 15 | ½ | | | 12 | 15 | 0.0240 | 0.0328 | 0.0410 | 0.0627 | 0.096 | 0.147 | 0.221 | 0.339 | 0.515 | 0.779 | 1.16 | 1.71 | 2.6 |
| 2.5 | 3 | 20 | ¾ | | | 12 | 15 | 0.034 | 0.046 | 0.060 | 0.098 | 0.153 | 0.239 | 0.364 | 0.554 | 0.841 | 1.24 | 1.81 | 2.8 | 3.7 |
| 4 | 5 | 15, 25 | ½, 1 | | | 12 | 15 | 0.082 | 0.096 | 0.118 | 0.177 | 0.267 | 0.382 | 0.564 | 0.872 | 1.39 | 2.4 | 3.5 | 4.2 | 4.5 |
| 6.3 | 7.5 | 20, 32 | ¾ | | | 24 | 15 | 0.14 | 0.17 | 0.21 | 0.30 | 0.42 | 0.63 | 0.95 | 1.35 | 2.00 | 2.9 | 4.3 | 6.7 | 9.1 |
| 10 | 12 | 25, 40 | 1, 1½ | | | 24 | 15 | 0.13 | 0.23 | 0.29 | 0.47 | 0.70 | 1.02 | 1.46 | 2.10 | 3.05 | 4.7 | 8.1 | 10.5 | 12.3 |
| 16 | 20 | 32, 50 | 2 | | | 32 | 15 | 0.26 | 0.33 | 0.40 | 0.62 | 1.01 | 1.56 | 2.4 | 3.6 | 5.4 | 8.4 | 13.1 | 17.9 | 20.8 |
| 25 | 30 | 40 | 1½ | | | 38 | 15 | 0.51 | 0.81 | 1.07 | 1.54 | 2.1 | 3.1 | 4.5 | 7.1 | 10.8 | 16.1 | 21.5 | 26.9 | 31.1 |
| 35 | 40 | 50 | 2 | | | 48 | 15 | 0.73 | 0.94 | 1.15 | 1.81 | 2.6 | 3.9 | 5.7 | 9.3 | 16.5 | 24.0 | 30.7 | 36.5 | 41.1 |
| 40 | 47 | 65, 80, 100 | 2½, 3, 4 | | | 48 | 15 | 0.74 | 0.94 | 1.14 | 1.92 | 3.4 | 6.1 | 9.7 | 14.1 | 20.3 | 27.1 | 33.2 | 38.0 | 41.7 |
| 100 | 120 | 65, 80 | 2½, 3 | | | 80 | 15 | 2.1 | 5.7 | 9.9 | 22.4 | 36.4 | 49.2 | 60.4 | 70.9 | 79.7 | 87.3 | 94.1 | 99.3 | 104.2 |
| 160 | 190 | 100 | 4 | | | 80 | 30 | 3.3 | 17.4 | 29.5 | 51.9 | 75.2 | 96.9 | 116.4 | 132.0 | 144.6 | 154.6 | 160.9 | 164.4 | 166.6 |

**Table 3321.2:** *$K_V$ coefficients ($m^3/h$) for Type 3321 Globe Valve: standard plug with flow divider ST 1, with inherent characteristic*

| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | Travel in % · Flow coefficient ($K_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 1.45 | 1.7 | 15 | ½ | ST 1 | Inherent characteristic according to T 8000-3 | 12 | 15 | 0.024 | 0.032 | 0.039 | 0.061 | 0.092 | 0.14 | 0.20 | 0.32 | 0.50 | 0.76 | 1.14 | 1.68 | 2.6 |
| 2.2 | 2.6 | 20 | ¾ | | | 12 | 15 | 0.022 | 0.025 | 0.04 | 0.08 | 0.14 | 0.23 | 0.35 | 0.54 | 0.82 | 1.22 | 1.79 | 2.7 | 3.7 |
| 3.6 | 4.2 | 15, 25 | ½, 1 | | | 12 | 15 | 0.066 | 0.081 | 0.10 | 0.16 | 0.25 | 0.37 | 0.57 | 0.86 | 1.32 | 2.2 | 3.3 | 4.0 | 4.4 |
| 5.7 | 7 | 20, 32 | ¾ | | | 24 | 15 | 0.14 | 0.17 | 0.21 | 0.30 | 0.42 | 0.63 | 0.94 | 1.34 | 2.00 | 2.9 | 4.2 | 6.3 | 8.6 |
| 9 | 10.5 | 25, 40 | 1, 1½ | | | 24 | 15 | 0.13 | 0.23 | 0.29 | 0.47 | 0.70 | 1.02 | 1.46 | 2.1 | 3.0 | 4.6 | 8.0 | 10.3 | 12.0 |
| 14.5 | 17 | 32, 50 | 2 | | | 32 | 15 | 0.26 | 0.33 | 0.39 | 0.59 | 0.96 | 1.48 | 2.2 | 3.4 | 5.2 | 7.9 | 12.4 | 17.0 | 19.8 |
| 22 | 26 | 40 | 1½ | | | 38 | 15 | 0.51 | 0.81 | 1.05 | 1.48 | 2.05 | 3.0 | 4.4 | 6.8 | 10.4 | 15.5 | 20.7 | 25.8 | 29.9 |
| 31 | 36 | 50 | 2 | | | 48 | 15 | 0.73 | 0.94 | 1.15 | 1.65 | 2.4 | 3.5 | 5.2 | 8.4 | 15.0 | 21.8 | 28.0 | 33.2 | 37.4 |
| 36 | 42 | 65, 80, 100 | 2½, 3, 4 | | | 48 | 15 | 0.74 | 0.94 | 1.14 | 1.75 | 3.1 | 5.6 | 8.8 | 12.8 | 18.5 | 24.7 | 30.2 | 34.6 | 38.0 |
| 90 | 105 | 65, 80 | 2½, 3 | | | 80 | 30 | 2.1 | 5.7 | 9.6 | 20.2 | 32.7 | 44.2 | 54.4 | 63.8 | 71.7 | 78.6 | 84.7 | 89.3 | 93.8 |
| 144 | 170 | 100 | 4 | | | 80 | 30 | 3.3 | 17.4 | 28.4 | 48.9 | 68.7 | 87.2 | 104.8 | 118.8 | 130.1 | 139.2 | 144.9 | 148.0 | 150.0 |

**Table 3321.3:** *$C_V$ coefficients (gmp) for Type 3321 Globe Valve: standard plug without flow divider, with inherent characteristic*

| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0.3 | 0.25 | 15 | ½ | Without | Inherent characteristic according to T 8000-3 | 3 | 15 | 0.0044 | 0.0050 | 0.0062 | 0.0094 | 0.0157 | 0.0243 | 0.0367 | 0.0557 | 0.0886 | 0.138 | 0.214 | 0.317 | 0.364 |
| 0.75 | 0.63 | 15 | ½ | | | 6 | 15 | 0.015 | 0.022 | 0.028 | 0.042 | 0.061 | 0.083 | 0.119 | 0.166 | 0.246 | 0.364 | 0.533 | 0.782 | 1.2 |
| 2 | 1.6 | 15 | ½ | | | 12 | 15 | 0.0278 | 0.0379 | 0.0474 | 0.0725 | 0.111 | 0.169 | 0.255 | 0.392 | 0.595 | 0.900 | 1.34 | 1.97 | 3.00 |
| 3 | 2.5 | 20 | ¾ | | | 12 | 15 | 0.040 | 0.054 | 0.069 | 0.113 | 0.177 | 0.276 | 0.421 | 0.640 | 0.972 | 1.43 | 2.1 | 3.2 | 4.3 |
| 5 | 4 | 15, 25 | ½, 1 | | | 12 | 15 | 0.095 | 0.111 | 0.136 | 0.204 | 0.309 | 0.441 | 0.653 | 1.008 | 1.60 | 2.7 | 4.1 | 4.8 | 5.2 |
| 7.5 | 6.3 | 20, 32 | ¾ | | | 24 | 15 | 0.16 | 0.20 | 0.24 | 0.34 | 0.48 | 0.73 | 1.10 | 1.56 | 2.3 | 3.4 | 5.0 | 7.7 | 10.5 |
| 12 | 10 | 25, 40 | 1, 1½ | | | 24 | 15 | 0.15 | 0.27 | 0.34 | 0.54 | 0.81 | 1.18 | 1.69 | 2.4 | 3.5 | 5.4 | 9.4 | 12.1 | 14.2 |
| 20 | 16 | 32, 50 | 2 | | | 32 | 15 | 0.30 | 0.38 | 0.46 | 0.72 | 1.17 | 1.80 | 2.7 | 4.1 | 6.3 | 9.7 | 15.1 | 20.7 | 24.0 |
| 30 | 25 | 40 | 1½ | | | 38 | 15 | 0.59 | 0.94 | 1.24 | 1.79 | 2.47 | 3.6 | 5.2 | 8.2 | 12.5 | 18.7 | 24.9 | 31.1 | 36.0 |
| 40 | 35 | 50 | 2 | | | 48 | 15 | 0.84 | 1.09 | 1.33 | 2.09 | 3.04 | 4.5 | 6.6 | 10.7 | 19.1 | 27.8 | 35.5 | 42.1 | 47.5 |
| 47 | 40 | 65, 80, 100 | 2½, 3, 4 | | | 48 | 15 | 0.86 | 1.09 | 1.32 | 2.2 | 3.9 | 7.1 | 11.2 | 16.3 | 23.5 | 31.4 | 38.4 | 43.9 | 48.2 |
| 120 | 100 | 65, 80 | 2½, 3 | | | 80 | 15 | 2.4 | 6.6 | 11.4 | 25.9 | 42.0 | 56.8 | 69.8 | 82.0 | 92.1 | 100.9 | 108.8 | 114.8 | 120.4 |
| 190 | 160 | 100 | 4 | | | 80 | 30 | 3.8 | 20.1 | 34.1 | 60.0 | 86.9 | 112.1 | 134.6 | 152.6 | 167.2 | 178.8 | 186.1 | 190.1 | 192.6 |

**Table 3321.4:** *$C_V$ coefficients (gpm) for Type 3321 Globe Valve: standard plug with flow divider ST 1, with inherent characteristic*

| $C_V$ | $K_{VS}$ | NPS | DN | GM | KL | Seat Ø [mm] | Travel [mm] | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 1.7 | 1.45 | 15 | ½ | St I | Inherent characteristic according to T 8000-3 | 12 | 15 | 0.028 | 0.037 | 0.046 | 0.071 | 0.106 | 0.16 | 0.23 | 0.37 | 0.58 | 0.88 | 1.32 | 1.94 | 3.0 |
| 2.6 | 2.2 | 20 | ¾ | | | 12 | 15 | 0.025 | 0.029 | 0.05 | 0.09 | 0.17 | 0.27 | 0.41 | 0.62 | 0.95 | 1.41 | 2.07 | 3.1 | 4.2 |
| 4.2 | 3.6 | 15, 25 | ½, 1 | | | 12 | 15 | 0.077 | 0.094 | 0.12 | 0.18 | 0.28 | 0.43 | 0.65 | 0.99 | 1.52 | 2.5 | 3.8 | 4.6 | 5.0 |
| 7 | 5.7 | 20, 32 | ¾ | | | 24 | 15 | 0.16 | 0.20 | 0.24 | 0.34 | 0.48 | 0.73 | 1.09 | 1.55 | 2.31 | 3.3 | 4.8 | 7.3 | 10.0 |
| 10.5 | 9 | 25, 40 | 1, 1½ | | | 24 | 15 | 0.15 | 0.27 | 0.34 | 0.54 | 0.81 | 1.18 | 1.69 | 2.4 | 3.5 | 5.3 | 9.2 | 11.9 | 13.9 |
| 17 | 14.5 | 32, 50 | 2 | | | 32 | 15 | 0.30 | 0.38 | 0.45 | 0.69 | 1.11 | 1.71 | 2.6 | 3.9 | 6.0 | 9.2 | 14.3 | 19.7 | 22.8 |
| 26 | 22 | 40 | 1½ | | | 38 | 15 | 0.59 | 0.94 | 1.21 | 1.71 | 2.4 | 3.4 | 5.0 | 7.9 | 12.0 | 17.9 | 23.9 | 29.8 | 34.5 |
| 36 | 31 | 50 | 2 | | | 48 | 15 | 0.84 | 1.09 | 1.33 | 1.91 | 2.8 | 4.1 | 6.0 | 9.8 | 17.4 | 25.3 | 32.3 | 38.4 | 43.2 |
| 42 | 36 | 65, 80, 100 | 2½, 3, 4 | | | 48 | 15 | 0.86 | 1.09 | 1.32 | 2.0 | 3.6 | 6.4 | 10.2 | 14.8 | 21.4 | 28.6 | 34.9 | 40.0 | 43.9 |
| 105 | 90 | 65, 80 | 2½, 3 | | | 80 | 30 | 2.4 | 6.6 | 11.1 | 23.3 | 37.8 | 51.1 | 62.9 | 73.8 | 82.9 | 90.8 | 97.9 | 103.3 | 108.4 |
| 170 | 144 | 100 | 4 | | | 80 | 30 | 3.8 | 20.1 | 32.9 | 56.6 | 79.4 | 100.8 | 121.1 | 137.4 | 150.5 | 160.9 | 167.5 | 171.1 | 173.4 |

**T 8000-3 EN · Section on Type 3347 EN**

**Type 3347 Hygienic Angle Valve**

**$K_V$ coefficients ($m^3/h$) for Type 3347 Hygienic Angle Valve**

**With standard plug**

Without flow divider

With equal percentage characteristic . Table 3347.1

With linear characterstic ..... Table 3347.2

**$C_V$ coefficients (gpm) for Type 3347 Hygienic Angle Valve**

**With standard plug**

Without flow divider

With equal percentage characteristic . Table 3347.3

With linear characterstic ..... Table 3347.4

**Table 3347.1:** *$K_V$ coefficients ($m^3/h$) for Type 3347 Hygienic Angle Valve: standard plug without flow divider, with equal percentage characteristic*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0,4 | 0,5 | 15, 20, 25 | ½, ¾, 1 | ohne | gleichprozentig | 6 | 15 | 0,00605 | 0,00676 | 0,00798 | 0,0110 | 0,0173 | 0,0274 | 0,0433 | 0,0685 | 0,108 | 0,171 | 0,271 | 0,428 | 0,669 |
| 0,63 | 0,75 | 15, 20, 25 | ½, ¾, 1 | | | 6 | 15 | 0,0147 | 0,0168 | 0,0199 | 0,0289 | 0,0419 | 0,0608 | 0,0881 | 0,128 | 0,193 | 0,290 | 0,441 | 0,674 | 0,978 |
| 1 | 1,2 | 15, 20, 25, 32, 40 | ½, ¾, 1, 1¼, 1½ | | | 6 | 15 | 0,0236 | 0,0286 | 0,0345 | 0,0504 | 0,0733 | 0,107 | 0,155 | 0,226 | 0,328 | 0,478 | 0,695 | 1,01 | 1,21 |
| 1,6 | 2 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1¼, 1½, 2 | | | 12 | 15 | 0,0378 | 0,0458 | 0,0554 | 0,0812 | 0,119 | 0,175 | 0,256 | 0,375 | 0,549 | 0,805 | 1,18 | 1,74 | 2,94 |
| 2,5 | 3 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1¼, 1½, 2 | | | 12 | 15 | 0,0590 | 0,0723 | 0,0885 | 0,132 | 0,192 | 0,278 | 0,407 | 0,596 | 0,874 | 1,28 | 1,88 | 2,75 | 3,54 |
| 4 | 5 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1¼, 1½, 2 | | | 12 | 15 | 0,0945 | 0,113 | 0,139 | 0,203 | 0,298 | 0,436 | 0,640 | 0,937 | 1,37 | 2,01 | 2,95 | 3,94 | 4,33 |
| 6,3 | 7,5 | 25, 32, 40, 50 | 1, 1¼, 1½, 2 | | | 24 | 15 | 0,148 | 0,175 | 0,205 | 0,283 | 0,417 | 0,613 | 0,902 | 1,33 | 1,95 | 2,87 | 4,22 | 6,82 | 8,74 |
| 10 | 12 | 25, 32, 40, 50, 65 | 1, 1¼, 1½, 2, 2½ | | | 24 | 15 | 0,120 | 0,133 | 0,149 | 0,297 | 0,527 | 0,863 | 1,34 | 2,05 | 3,04 | 4,40 | 6,44 | 9,35 | 11,8 |
| 16 | 20 | 32, 40, 50, 65, 80 | 1¼, 1½, 2, 2½, 3 | | | 31 | 15 | 0,372 | 0,451 | 0,548 | 0,807 | 1,19 | 1,75 | 2,58 | 3,80 | 5,59 | 8,23 | 11,9 | 15,6 | 18,9 |
| 25 | 30 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0,562 | 0,622 | 0,729 | 1,13 | 1,71 | 2,58 | 3,87 | 6,44 | 10,7 | 14,9 | 19,2 | 23,4 | 26,5 |
| 40 | 47 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0,852 | 1,05 | 1,33 | 1,98 | 3,03 | 4,44 | 7,56 | 13,6 | 19,7 | 25,7 | 31,8 | 37,8 | 43,0 |
| 60 | 70 | 65, 80 | 2½, 3 | | | 63 | 15 | 1,41 | 2,04 | 2,67 | 3,91 | 5,16 | 9,54 | 17,9 | 26,3 | 34,7 | 43,0 | 51,4 | 59,8 | 66,5 |
| 60 | 70 | 100 | 4 | | | 63 | 30 | 1,41 | 2,04 | 2,67 | 3,91 | 5,16 | 9,54 | 17,9 | 26,3 | 34,7 | 43,0 | 51,4 | 59,8 | 66,5 |
| 80 | 95 | 80 | 3 | | | 80 | 15 | 1,07 | 1,55 | 2,22 | 3,95 | 10,8 | 20,2 | 29,6 | 38,9 | 48,3 | 57,7 | 67,1 | 76,5 | 85,8 |
| 80 | 95 | 100 | 4 | | | 80 | 30 | 1,77 | 2,21 | 2,75 | 5,43 | 10,1 | 16,3 | 24,0 | 33,2 | 42,9 | 53,9 | 67,6 | 87,3 | 110,0 |
| 100 | 120 | 100, 125 | 4, 5 | | | 80 | 30 | 2,00 | 2,43 | 2,96 | 4,37 | 6,47 | 9,56 | 14,1 | 20,9 | 30,9 | 45,7 | 67,6 | 100,0 | 147,9 |
| 160 | 190 | 100, 125 | 4, 5 | | | 100 | 30 | 3,78 | 5,48 | 7,16 | 12,1 | 17,2 | 24,0 | 34,8 | 50,6 | 76,3 | 108,0 | 132,1 | 152,4 | 164,4 |
| 200 | 240 | 125 | 5 | | | 110 | 30 | 4,72 | 5,85 | 7,23 | 11,1 | 16,9 | 37,3 | 63,3 | 90,6 | 116,1 | 140,9 | 165,6 | 190,3 | 211,7 |

**Table 3347.2:** *$K_V$ coefficients ($m^3/h$) for Type 3347 Hygienic Angle Valve: standard plug without flow divider, with linear characteristic*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0, 4 | 0, 5 | 15, 20, 25 | ½, ¾, 1 | ohne | linear | 6 | 15 | 0,00945 | 0,0270 | 0,0445 | 0,0814 | 0,122 | 0,165 | 0,207 | 0,250 | 0,293 | 0,335 | 0,378 | 0,421 | 0,463 |
| 0, 63 | 0, 75 | 15, 20, 25 | ½, ¾, 1 | | | 6 | 15 | 0,0148 | 0,0462 | 0,0774 | 0,140 | 0,205 | 0,269 | 0,334 | 0,398 | 0,463 | 0,527 | 0,592 | 0,657 | 0,721 |
| 1 | 1, 2 | 15, 20, 25, 32, 40 | ½, ¾, 1, 1¼, 1½ | | | 6 | 15 | 0,0236 | 0,0753 | 0,127 | 0,229 | 0,330 | 0,430 | 0,529 | 0,629 | 0,729 | 0,828 | 0,928 | 1,03 | 1,13 |
| 1, 6 | 2 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1¼, 1½, 2 | | | 12 | 15 | 0,0378 | 0,155 | 0,232 | 0,391 | 0,558 | 0,730 | 0,902 | 1,07 | 1,24 | 1,42 | 1,59 | 1,76 | 1,93 |
| 2, 5 | 3 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1¼, 1½, 2 | | | 12 | 15 | 0,0591 | 0,183 | 0,308 | 0,565 | 0,820 | 1,07 | 1,33 | 1,58 | 1,83 | 2,09 | 2,34 | 2,59 | 2,85 |
| 4 | 5 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1¼, 1½, 2 | | | 12 | 15 | 0,0919 | 0,277 | 0,500 | 0,922 | 1,35 | 1,77 | 2,20 | 2,63 | 3,07 | 3,51 | 3,95 | 4,30 | 4,41 |
| 6, 3 | 7, 5 | 25, 32, 40, 50 | 1, 1¼, 1½, 2 | | | 24 | 15 | 0,148 | 0,469 | 0,789 | 1,44 | 2,09 | 2,74 | 3,39 | 4,04 | 4,70 | 5,35 | 6,00 | 6,65 | 7,30 |
| 10 | 12 | 25, 32, 40, 50, 65 | 1, 1¼, 1½, 2, 2½ | | | 24 | 15 | 0,117 | 0,499 | 0,965 | 1,96 | 3,02 | 4,11 | 5,20 | 6,29 | 7,38 | 8,47 | 9,56 | 10,7 | 11,7 |
| 16 | 20 | 32, 40, 50, 65, 80 | 1¼, 1½, 2, 2½, 3 | | | 31 | 15 | 0,378 | 1,26 | 2,14 | 3,86 | 5,51 | 7,13 | 8,74 | 10,4 | 12,0 | 13,6 | 15,2 | 16,8 | 18,4 |
| 25 | 30 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0,591 | 1,63 | 2,68 | 4,87 | 7,29 | 9,82 | 12,4 | 14,9 | 17,4 | 19,9 | 22,5 | 25,0 | 27,5 |
| 40 | 47 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0,945 | 2,64 | 4,47 | 8,09 | 11,7 | 15,3 | 19,0 | 22,6 | 26,2 | 29,8 | 33,5 | 37,1 | 40,7 |
| 60 | 70 | 65, 80 | 2½, 3 | | | 63 | 15 | 1,34 | 2,79 | 5,31 | 11,20 | 17,1 | 23,0 | 28,9 | 34,8 | 40,7 | 46,6 | 52,5 | 58,4 | 64,3 |
| 60 | 70 | 100 | 4 | | | 63 | 30 | 1,34 | 2,79 | 5,31 | 11,20 | 17,1 | 23,0 | 28,9 | 34,8 | 40,7 | 46,6 | 52,5 | 58,4 | 64,3 |
| 80 | 95 | 80 | 3 | | | 80 | 15 | 1,89 | 3,75 | 6,20 | 13,9 | 21,6 | 29,3 | 37,0 | 44,7 | 52,4 | 60,1 | 67,8 | 75,5 | 83,2 |
| 80 | 95 | 100 | 4 | | | 80 | 30 | 1,60 | 5,52 | 9,44 | 17,3 | 25,1 | 33,0 | 40,8 | 48,6 | 56,5 | 64,3 | 72,2 | 80,0 | 87,8 |
| 100 | 120 | 100, 125 | 4, 5 | | | 80 | 30 | 2,00 | 6,90 | 11,8 | 21,6 | 31,4 | 41,2 | 51,0 | 60,8 | 70,6 | 80,4 | 90,2 | 100,0 | 109,8 |
| 160 | 190 | 100, 125 | 4, 5 | | | 100 | 30 | 3,23 | 7,01 | 12,5 | 28,4 | 45,5 | 63,1 | 80,8 | 98,4 | 116,1 | 133,7 | 151,4 | 169,0 | 186,6 |
| 200 | 240 | 125 | 5 | | | 110 | 30 | 4,72 | 13,6 | 22,4 | 40,7 | 60,0 | 79,9 | 99,8 | 119,7 | 139,6 | 159,5 | 179,4 | 199,3 | 219,2 |

**Table 3347.3:** *$C_V$ coefficients (gpm) for Type 3347 Hygienic Angle Valve: standard plug without flow divider, with equal percentage characteristic*

| | | | | | | | | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0,4 | 0,5 | 15, 20, 25 | ½, ¾, 1 | ohne | gleichprozentig | 6 | 15 | 0,00699 | 0,00781 | 0,00922 | 0,0127 | 0,0200 | 0,0317 | 0,0501 | 0,0792 | 0,125 | 0,198 | 0,313 | 0,495 | 0,774 |
| 0,63 | 0,75 | 15, 20, 25 | ½, ¾, 1 | | | 6 | 15 | 0,0169 | 0,0194 | 0,0231 | 0,0334 | 0,0485 | 0,0703 | 0,102 | 0,148 | 0,223 | 0,335 | 0,509 | 0,779 | 1,13 |
| 1 | 1,2 | 15, 20, 25, 32, 40 | ½, ¾, 1, 1¼, 1½ | | | 6 | 15 | 0,0273 | 0,0330 | 0,0399 | 0,0582 | 0,0847 | 0,123 | 0,179 | 0,261 | 0,380 | 0,553 | 0,804 | 1,17 | 1,40 |
| 1,6 | 2 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1¼, 1½, 2 | | | 12 | 15 | 0,0437 | 0,0529 | 0,0641 | 0,0939 | 0,138 | 0,202 | 0,296 | 0,433 | 0,635 | 0,931 | 1,36 | 2,01 | 3,40 |
| 2,5 | 3 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1¼, 1½, 2 | | | 12 | 15 | 0,0683 | 0,0836 | 0,102 | 0,153 | 0,222 | 0,321 | 0,470 | 0,689 | 1,01 | 1,48 | 2,17 | 3,17 | 4,09 |
| 4 | 5 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1¼, 1½, 2 | | | 12 | 15 | 0,109 | 0,131 | 0,160 | 0,235 | 0,344 | 0,504 | 0,739 | 1,08 | 1,59 | 2,33 | 3,41 | 4,55 | 5,01 |
| 6,3 | 7,5 | 25, 32, 40, 50 | 1, 1¼, 1½, 2 | | | 24 | 15 | 0,172 | 0,202 | 0,238 | 0,328 | 0,482 | 0,709 | 1,04 | 1,53 | 2,26 | 3,32 | 4,88 | 7,88 | 10,1 |
| 10 | 12 | 25, 32, 40, 50, 65 | 1, 1¼, 1½, 2, 2½ | | | 24 | 15 | 0,138 | 0,153 | 0,172 | 0,343 | 0,609 | 0,998 | 1,55 | 2,37 | 3,52 | 5,09 | 7,45 | 10,8 | 13,7 |
| 16 | 20 | 32, 40, 50, 65, 80 | 1¼, 1½, 2, 2½, 3 | | | 31 | 15 | 0,430 | 0,522 | 0,633 | 0,933 | 1,37 | 2,02 | 2,98 | 4,39 | 6,46 | 9,52 | 13,8 | 18,0 | 21,9 |
| 25 | 30 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0,649 | 0,719 | 0,842 | 1,31 | 1,98 | 2,98 | 4,48 | 7,45 | 12,4 | 17,3 | 22,2 | 27,1 | 30,6 |
| 40 | 47 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 0,984 | 1,21 | 1,53 | 2,29 | 3,50 | 5,13 | 8,74 | 15,7 | 22,7 | 29,7 | 36,7 | 43,7 | 49,7 |
| 60 | 70 | 65, 80 | 2½, 3 | | | 63 | 15 | 1,63 | 2,36 | 3,08 | 4,52 | 5,97 | 11,0 | 20,7 | 30,4 | 40,1 | 49,7 | 59,4 | 69,1 | 76,8 |
| 60 | 70 | 100 | 4 | | | 63 | 30 | 1,63 | 2,36 | 3,08 | 4,52 | 5,97 | 11,0 | 20,7 | 30,4 | 40,1 | 49,7 | 59,4 | 69,1 | 76,8 |
| 80 | 95 | 80 | 3 | | | 80 | 15 | 1,23 | 1,79 | 2,57 | 4,57 | 12,5 | 23,3 | 34,2 | 45,0 | 55,9 | 66,7 | 77,5 | 88,4 | 99,2 |
| 80 | 95 | 100 | 4 | | | 80 | 30 | 2,04 | 2,55 | 3,18 | 6,28 | 11,6 | 18,9 | 27,7 | 38,4 | 49,6 | 62,3 | 78,2 | 101,0 | 127,1 |
| 100 | 120 | 100, 125 | 4, 5 | | | 80 | 30 | 2,31 | 2,81 | 3,42 | 5,06 | 7,48 | 11,1 | 16,3 | 24,2 | 35,8 | 52,9 | 78,2 | 115,6 | 171,0 |
| 160 | 190 | 100, 125 | 4, 5 | | | 100 | 30 | 4,37 | 6,33 | 8,27 | 14,0 | 19,9 | 27,7 | 40,3 | 58,5 | 88,2 | 124,9 | 152,7 | 176,2 | 190,1 |
| 200 | 240 | 125 | 5 | | | 110 | 30 | 5,46 | 6,76 | 8,36 | 12,8 | 19,6 | 43,1 | 73,2 | 104,8 | 134,2 | 162,8 | 191,4 | 220,0 | 244,8 |

**Table 3347.4:** *$C_V$ coefficients (gpm) for Type 3347 Hygienic Angle Valve: standard plug without flow divider, with linear characteristic*

| $K_{VS}$ | $C_V$ | DN | NPS | GM | KL | Seat Ø [mm] | Travel [mm] | Travel in % · Flow coefficient ($C_V$) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0, 4 | 0, 5 | 15, 20, 25 | ½, ¾, 1 | ohne | linear | 6 | 15 | 0,0109 | 0,0312 | 0,0514 | 0,0941 | 0,141 | 0,191 | 0,240 | 0,289 | 0,338 | 0,388 | 0,437 | 0,486 | 0,536 |
| 0, 63 | 0, 75 | 15, 20, 25 | ½, ¾, 1 | | | 6 | 15 | 0,0172 | 0,0534 | 0,0895 | 0,162 | 0,236 | 0,311 | 0,386 | 0,460 | 0,535 | 0,610 | 0,684 | 0,759 | 0,834 |
| 1 | 1, 2 | 15, 20, 25, 32, 40 | ½, ¾, 1, 1¼, 1½ | | | 6 | 15 | 0,0273 | 0,0870 | 0,147 | 0,265 | 0,381 | 0,497 | 0,612 | 0,727 | 0,843 | 0,958 | 1,07 | 1,19 | 1,30 |
| 1, 6 | 2 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1¼, 1½, 2 | | | 12 | 15 | 0,0436 | 0,179 | 0,268 | 0,452 | 0,645 | 0,844 | 1,04 | 1,24 | 1,44 | 1,64 | 1,84 | 2,03 | 2,23 |
| 2, 5 | 3 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1¼, 1½, 2 | | | 12 | 15 | 0,0683 | 0,212 | 0,356 | 0,653 | 0,948 | 1,24 | 1,53 | 1,83 | 2,12 | 2,41 | 2,71 | 3,00 | 3,29 |
| 4 | 5 | 15, 20, 25, 32, 40, 50 | ½, ¾, 1, 1¼, 1½, 2 | | | 12 | 15 | 0,106 | 0,320 | 0,577 | 1,07 | 1,56 | 2,05 | 2,54 | 3,04 | 3,55 | 4,05 | 4,57 | 4,97 | 5,10 |
| 6, 3 | 7, 5 | 25, 32, 40, 50 | 1, 1¼, 1½, 2 | | | 24 | 15 | 0,172 | 0,542 | 0,913 | 1,67 | 2,42 | 3,17 | 3,92 | 4,68 | 5,43 | 6,18 | 6,93 | 7,69 | 8,44 |
| 10 | 12 | 25, 32, 40, 50, 65 | 1, 1¼, 1½, 2, 2½ | | | 24 | 15 | 0,136 | 0,576 | 1,12 | 2,27 | 3,49 | 4,75 | 6,01 | 7,27 | 8,53 | 9,79 | 11,1 | 12,3 | 13,6 |
| 16 | 20 | 32, 40, 50, 65, 80 | 1¼, 1½, 2, 2½, 3 | | | 31 | 15 | 0,436 | 1,45 | 2,47 | 4,47 | 6,37 | 8,24 | 10,10 | 12,0 | 13,8 | 15,7 | 17,6 | 19,4 | 21,3 |
| 25 | 30 | 40, 50, 65, 80 | 1½, 2, 2½, 3 | | | 38 | 15 | 0,683 | 1,89 | 3,09 | 5,63 | 8,43 | 11,4 | 14,3 | 17,2 | 20,1 | 23,1 | 26,0 | 28,9 | 31,8 |
| 40 | 47 | 50, 65, 80 | 2, 2½, 3 | | | 48 | 15 | 1,09 | 3,06 | 5,17 | 9,36 | 13,5 | 17,7 | 21,9 | 26,1 | 30,3 | 34,5 | 38,7 | 42,9 | 47,1 |
| 60 | 70 | 65, 80 | 2½, 3 | | | 63 | 15 | 1,55 | 3,23 | 6,14 | 13,0 | 19,8 | 26,6 | 33,4 | 40,2 | 47,1 | 53,9 | 60,7 | 67,5 | 74,3 |
| 60 | 70 | 100 | 4 | | | 63 | 30 | 1,55 | 3,23 | 6,14 | 13,0 | 19,8 | 26,6 | 33,4 | 40,2 | 47,1 | 53,9 | 60,7 | 67,5 | 74,3 |
| 80 | 95 | 80 | 3 | | | 80 | 15 | 2,18 | 4,34 | 7,17 | 16,1 | 25,0 | 33,9 | 42,8 | 51,7 | 60,6 | 69,5 | 78,4 | 87,3 | 96,2 |
| 80 | 95 | 100 | 4 | | | 80 | 30 | 1,84 | 6,38 | 10,9 | 20,0 | 29,0 | 38,1 | 47,2 | 56,2 | 65,3 | 74,4 | 83,4 | 92,5 | 101,5 |
| 100 | 120 | 100, 125 | 4, 5 | | | 80 | 30 | 2,31 | 7,98 | 13,6 | 25,0 | 36,3 | 47,6 | 59,0 | 70,3 | 81,6 | 92,9 | 104,3 | 115,6 | 126,9 |
| 160 | 190 | 100, 125 | 4, 5 | | | 100 | 30 | 3,73 | 8,10 | 14,5 | 32,9 | 52,6 | 73,0 | 93,4 | 113,8 | 134,2 | 154,6 | 175,0 | 195,4 | 215,8 |
| 200 | 240 | 125 | 5 | | | 110 | 30 | 5,46 | 15,7 | 25,9 | 47,0 | 69,4 | 92,4 | 115,4 | 138,4 | 161,4 | 184,4 | 207,4 | 230,4 | 253,4 |