INFORMATION SHEET

T 8000-3 EN

Electric and Pneumatic Control Valves

Series 240 • 250

Flow coefficients for valves

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

SAMSON AKTIENGESELLSCHAFT · Weismüllerstraße 3 · 60314 Frankfurt am Main, Germany
Phone: +49 69 4009-0 · Fax: +49 69 4009-1507 · samson@samsongroup.com · www.samsongroup.com

Edition April 2023

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 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

Contents

Abbreviations

GM Noise reduction
KL Characteristic
ST Flow divider ▶ T 8081

INFORMATION SHEET

T 8000-3 (3241) EN

Type 3241 Globe Valve

SAMSON AKTIENGESELLSCHAFT · Weismüllerstraße 3 · 60314 Frankfurt am Main, Germany
Phone: +49 69 4009-0 · Fax: +49 69 4009-1507 · samson@samsongroup.com · www.samsongroup.com

Table 3241.1: *K_V 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: *K_V 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*

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
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 (m³/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: *K_V 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: *K_V 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*

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
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: *K_V 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: *K_V 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*

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
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: *K_V coefficients (m³/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: *K_V 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*

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	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 (m³/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 (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	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: *K_V 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*

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
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: *K_V 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*

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
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 (m³/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: *C_V coefficients (gpm) for Type 3241 Globe Valve: standard plug without flow divider, with linear 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
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: *C_V 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: *C_V 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*

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	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: *C_V 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*

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	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: *C_V 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: *C_V coefficients (gpm) for Type 3241 Globe Valve: perforated plug without flow divider, with linear 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	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: *C_V 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*

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	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: *C_V 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*

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	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: *C_V 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

INFORMATION SHEET

T 8000-3 (3248) EN

Type 3248 Cryogenic Valve

SAMSON AKTIENGESELLSCHAFT · Weismüllerstraße 3 · 60314 Frankfurt am Main, Germany
Phone: +49 69 4009-0 · Fax: +49 69 4009-1507 · samson@samsongroup.com · www.samsongroup.com

Table 3248.1: *K_V coefficients (m³/h) for Type 3248 Globe Valve: standard 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
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: *K_V 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: *K_V 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: *K_V 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*

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
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: *C_V 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: *C_V coefficients (gpm) for Type 3248 Globe Valve: standard plug without flow divider, with linear 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
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: *C_V 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*

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	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: *C_V coefficients (gpm) for Type 3248 Globe Valve: perforated plug without flow divider, with linear 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	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	–	–	–	–	–	–	–	–	–

INFORMATION SHEET

T 8000-3 (3249) EN

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

SAMSON AKTIENGESELLSCHAFT · Weismüllerstraße 3 · 60314 Frankfurt am Main, Germany
Phone: +49 69 4009-0 · Fax: +49 69 4009-1507 · samson@samsongroup.com · www.samsongroup.com

Table 3249.1: *K_V 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*

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
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: *K_V 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: *C_V 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*

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
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: *C_V 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

INFORMATION SHEET

T 8000-3 (3251) EN

Type 3251 Globe Valve

SAMSON AKTIENGESELLSCHAFT · Weismüllerstraße 3 · 60314 Frankfurt am Main, Germany
Phone: +49 69 4009-0 · Fax: +49 69 4009-1507 · samson@samsongroup.com · www.samsongroup.com

Table 3251.1: *K_V coefficients (m³/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: *K_V 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: *K_V 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: *K_V 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: *K_V 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: *K_V coefficients (m³/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: *K_V 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: *K_V 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: *K_V 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: *K_V 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: *K_V 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*

								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
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 (m³/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: *K_V 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: *K_V 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*

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
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: *K_V 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: *C_V coefficients (gpm) for Type 3251 Globe Valve: standard plug without flow divider, with linear 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
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: *C_V 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: *C_V 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*

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
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*

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
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: *C_V 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: *C_V 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: *C_V 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: *C_V 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 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	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: *C_V 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: *C_V 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*

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
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: *C_V 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*

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
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

INFORMATION SHEET

T 8000-3 (3321) EN

Type 3321 Globe Valve (V2001)

SAMSON AKTIENGESELLSCHAFT · Weismüllerstraße 3 · 60314 Frankfurt am Main, Germany
Phone: +49 69 4009-0 · Fax: +49 69 4009-1507 · samson@samsongroup.com · www.samsongroup.com

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

								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	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

INFORMATION SHEET

T 8000-3 (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 3321.1

With linear characterstic ..... Table 3321.2

C_V coefficients (gpm) for Type 3347 Hygienic Angle Valve

With standard plug

Without flow divider

With equal percentage characteristic ... Table 3321.3

With linear characterstic ..... Table 3321.4

SAMSON AKTIENGESELLSCHAFT · Weismüllerstraße 3 · 60314 Frankfurt am Main, Germany
Phone: +49 69 4009-0 · Fax: +49 69 4009-1507 · samson@samsongroup.com · www.samsongroup.com

Table 3321.1: *K_V coefficients (m³/h) for Type 3347 Hygienic Angle Valve: standard plug without flow divider, with equal percentage 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	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 3321.2: *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 3321.3: *C_V coefficients (gpm) for Type 3347 Hygienic Angle Valve: standard plug without flow divider, with equal percentage 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	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 3321.4: *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