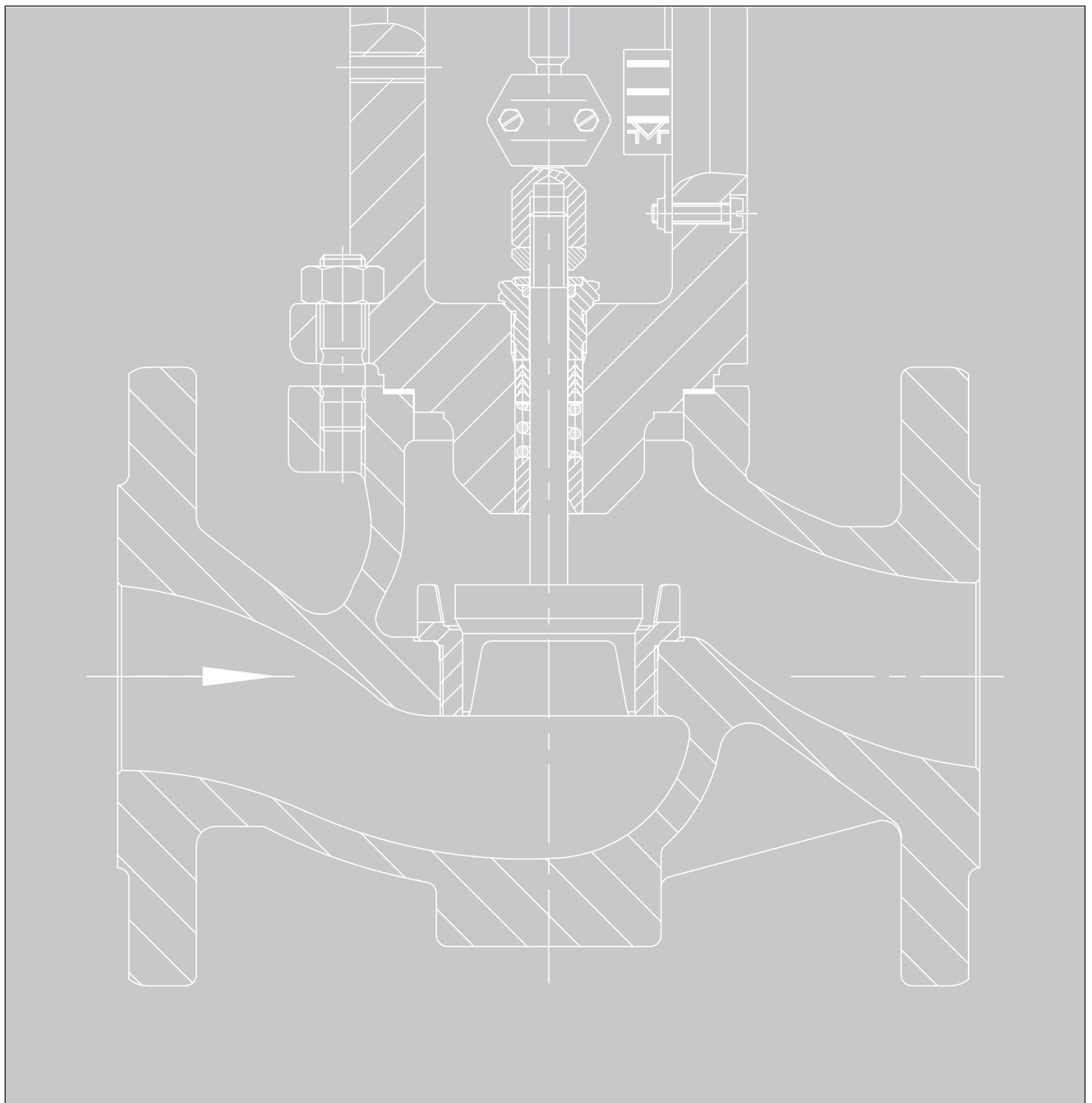


Information Sheet Part 3

Valve flow coefficients

Type 3241 · Type 3251 · Type 3254 · Type 3256



Valve characteristics

This Information Sheet contains valve flow coefficients (according to IEC 60534-2-3) measured on the SAMSON test bench for all available nominal sizes and flow coefficients K_V for the Type 3241, Type 3251, and Type 3254 Globe Valves as well as for the Type 3256 Angle Valve.

The flow coefficients K_V are specified for a travel of up to 110 % to indicate the remaining reserve that the valves have.

Note! This overtravel **cannot** be implemented in valves with bellows seal.

The flow coefficients in Table 4 onwards are specified as C_V coefficients in gallons per minute (gpm) frequently used in Anglo-American regions.

You can use the graph paper in pages 18 and 34 to create your own characteristics or to make notes.

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Table 1.1 · Flow coefficients K_v for Type 3241 Globe Valve without flow divider and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size			Rated travel [mm]	Travel in % and associated flow coefficient K_v												
K_{vs}	C_v	DN	NPS	Seat \varnothing [mm]		0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
0.1	0.12	15 · 20 25	$\frac{1}{2}$ · $\frac{3}{4}$ 1	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					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					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	$\frac{1}{2}$ · $\frac{3}{4}$ 1 $1\frac{1}{2}$ · 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					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					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	20 · 25 · 32 40 · 50	$\frac{3}{4}$ · 1 $1\frac{1}{2}$ · 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					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					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	$\frac{3}{4}$ · 1 $1\frac{1}{2}$ · 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					0.20	0.25	0.31	0.47	0.71	0.98	1.48	2.32	3.62	5.7	7.9	10.0	11.6
16	20	32 · 40 · 50	$1\frac{1}{2}$ · 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					0.54	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 · $2\frac{1}{2}$ · 3	48	15	0.88	1.06	1.35	2.3	4.6	8.7	14.5	20.4	26.1	30.9	35.1	39.2	42.6
60	70					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	2.0	2.3	2.6	3.5	5.1	7.2	10.4	14.8	22.3	34.5	49.4	62.5	73.0
80	95					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	120	100 · 125 150	4 · 6	80	15	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					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	8.1	9.3	10.6	14.1	20.3	28.8	41.9	59.3	89.8	138.8	198.3	251.3	293.1
260	300					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					15.9	19.6	24.2	34.9	59.3	113.1	200.1	298.0	408.9	483.5	545.1	580.4	608.5
1000	1150	250 · 300	10 · 12	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					20.1	28.2	39.7	66.7	103.2	153.9	231.2	338.5	519.8	795.8	1097.0	1396.2	1485.9

Table 1.2 · Flow coefficients Kv for Type 3241 Globe Valve without flow divider and with linear characteristic · Version with bellows up to max. 100 % travel

Coefficient		Nominal size			Seal Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Kv											
Kvs	Cv	DN	NPS	0 %			5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
0.1	0.12	15 · 20 25	½ · ¾ 1	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					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					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	½ · ¾ 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					0.0066	0.049	0.085	0.150	0.211	0.271	0.332	0.393	0.454	0.515	0.575	0.636	0.697
1	1.2					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	20 · 25 · 32 40 · 50	¾ · 1 1½ · 2	24	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					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					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	31	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					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					0.36	1.23	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	0.59	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					0.92	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					1.0	4.8	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					1.3	4.5	7.7	13.6	19.5	25.4	32.3	40.0	48.7	57.4	66.1	74.7	83.4
100	120					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	-					6.3	8.8	16.2	34.4	54.6	74.8	94.9	115.1	135.3	155.4	175.6	195.7	215.9
250	290					8.2	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	200 · 250 300	6	130	30	6.0	8.2	12.0	25.5	49.2	81.0	116.8	150.1	182.1	213.4	244.7	276.0	303.5
360	420					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					19.1	41.6	66.9	120.4	176.9	233.4	290.0	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					20.1	33.2	89.9	238.3	383.7	529.1	674.5	819.9	965.3	1110.7	1256.1	1401.5	1486.9

Table 1.3 · Flow coefficients K_V for Type 3241 Globe Valve with flow divider S1 and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Seat \varnothing [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K_V														
K_{VS}	C_V	DN	NPS			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %		
1.45	1.7	15 · 20 25	$\frac{1}{2}$ · $\frac{3}{4}$ 1	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					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					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	$1\frac{1}{2}$ · 2	24	15	0.14	0.17	0.21	0.30	0.42	0.63	0.94	1.34	2.00	3.0	4.4	6.9	9.7		
9	10.5					0.20	0.24	0.29	0.44	0.67	0.96	1.43	2.2	3.5	5.7	8.2	10.7	12.7		
14.5	17					0.27	0.37	0.48	0.70	1.07	1.62	2.3	3.4	5.0	7.8	11.6	15.3	18.0		
22	26	40 · 50 65 · 80	$1\frac{1}{2}$ · 2 $2\frac{1}{2}$ · 3	38	15	0.52	0.60	0.73	1.14	1.74	2.6	4.2	7.1	11.5	15.5	19.0	22.2	25.0		
36	42					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		
54	62					1.9	2.3	2.7	3.7	6.0	11.5	18.9	27.0	33.8	40.4	46.0	51.3	54.7		
57	67	100 · 150	4 · 6	63	30	1.4	2.0	2.5	3.6	5.1	7.2	10.4	14.4	21.4	33.0	45.5	56.7	64.8		
72	85					2.6	3.3	3.9	5.6	9.0	17.2	29.0	38.2	46.5	53.9	60.3	66.2	70.2		
90	105					1.7	2.4	3.1	4.7	7.1	10.3	15.5	24.1	38.8	55.7	70.4	84.3	95.1		
144	170	100 · 150	4 · 6	100	30	3.1	3.6	4.3	6.1	8.5	13.2	22.3	35.9	53.4	73.8	99.7	131.7	145.3		
180	-					4.1	5.6	6.7	9.6	12.6	15.0	23.7	38.9	67.9	102.0	137.0	168.9	191.1		
225	265					8.0	9.1	10.4	14.0	18.7	26.5	38.6	54.6	82.6	127.7	182.4	231.2	269.7		
234	275	150	6	130	30	6.9	8.3	11.0	19.5	31.3	57.0	85.7	115.7	144.1	173.2	199.9	224.5	245.9		
320	375					8.3	10.4	13.2	19.5	28.5	41.1	58.1	92.3	157.1	232.4	300.4	357.3	411.5		
560	650					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	551.0	759.5	966.8	1066.1		
1350	1560					18.1	25.4	35.7	60.0	92.9	138.5	208.1	304.7	467.9	716.2	987.3	1256.6	1337.3		

Table 1.4 · Flow coefficients Kv for Type 3241 Globe Valve with flow divider St I and with linear characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Kv												
Kvs	Cv	DN	NPS			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
1.45	1.7					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					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					0.1	0.5	0.8	1.4	2.0	2.6	3.3	3.9	4.5	5.1	5.7	6.3	6.9
9	10.5	32 · 40 50	1½ · 2	24	15	0.05	0.57	1.03	2.1	3.1	4.2	5.2	6.3	7.4	8.4	9.5	10.5	11.6
14.5	17					0.03	1.06	1.8	3.3	4.9	6.4	7.9	9.5	11.0	12.5	14.1	15.6	17.1
22	26	40 · 50 65 · 80	½ · 2 2½ · 3	38	15	0.59	0.79	1.35	3.3	5.6	7.9	10.2	12.5	14.8	17.1	19.4	21.7	24.0
36	42	50 · 65 · 80	2 · 2½ · 3	48	15	0.92	1.25	1.94	4.5	8.5	12.5	16.5	20.5	24.5	28.5	32.5	36.5	40.5
54	62	65 · 80	2½ · 3	63	15	0.90	4.6	8.2	14.7	21.2	27.6	33.4	38.5	43.0	47.3	51.6	55.9	60.2
57	67	100 · 150	4 · 6	63	30	1.4	2.1	4.2	10.3	17.2	23.9	30.6	37.4	44.1	50.8	57.5	64.3	71.0
72	85	80	3	80	15	1.2	3.6	6.2	12.5	18.8	25.6	32.4	39.2	46.0	52.8	59.5	66.3	70.4
90	105	100 · 125 150	4 · 6	80	30	2.1	3.5	7.7	17.9	27.4	36.9	46.4	55.8	65.3	74.8	84.3	93.8	103.3
144	170	100 · 150	4 · 6	100	30	4.0	6.4	11.5	25.6	39.2	52.8	66.4	79.9	93.5	107.1	120.7	134.2	145.2
180	-	125	-	110	30	6.3	8.8	16.2	34.5	51.7	68.9	86.1	103.4	120.6	137.8	155.0	172.3	189.5
225	265	200 · 250 300	8 · 10 12	125	60	8.2	10.8	19.2	41.5	66.8	92.1	117.4	142.7	168.0	193.3	218.6	243.9	269.2
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	23.2	57.3	94.1	130.9	167.7	204.5	241.4	278.2	315.0	351.8	388.6
560	650			200		19.1	41.6	66.9	120.4	170.5	220.6	270.6	320.7	370.8	420.9	471.0	521.1	571.1
950	1040	250 · 300	10 · 12	250	120	13.8	22.2	51.8	146.1	246.6	347.2	447.8	548.3	648.9	749.5	850.0	950.6	1042.2
1350	1560	300	12	300		18.1	29.9	80.9	214.5	345.3	476.2	607.1	737.9	868.8	999.6	1130.5	1261.3	1338.2

Table 1.5 · Flow coefficients K_V for Type 3241 Globe Valve with flow divider St III and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient K_V													
K_{VS}	C_V	DN	NPS		Seat \varnothing [mm]	0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
7.5	9	50	2	24	1.5	0.20	0.24	0.29	0.44	0.67	0.96	1.43	2.2	3.5	5.7	8.2	10.7	12.7
20	23	65 · 80	2½ · 3	38	15	0.52	0.60	0.73	1.1	1.7	2.6	4.2	7.1	11.5	15.5	19.0	22.2	25.0
30	35			48		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
47	55	100 · 150	4 · 6	63	30	1.5	1.7	2.0	2.8	4.0	5.7	8.4	12.0	18.1	28.4	40.9	52.2	61.2
75	-	125 · 150	6	80	30	1.1	1.4	2.0	3.4	5.3	7.5	11.6	19.4	33.9	50.9	68.4	84.3	98.5
120	140	150	6	100	30	3.8	4.5	5.3	7.6	10.6	15.1	25.6	42.0	62.2	82.0	102.8	121.4	135.2
190	220	200 · 250 300	8 · 10 12	125	60	6.9	8.3	10.0	14.0	18.6	24.6	34.4	48.6	73.6	113.8	162.6	206.0	240.4
270	315			150		8.1	10.3	12.8	19.0	29.2	41.6	57.1	84.7	128.4	182.5	242.5	306.4	337.1
480	560	250 · 300	10 · 12	200	120	13.5	16.7	20.5	29.7	50.4	96.1	170.1	253.3	347.6	411.0	463.3	493.3	517.2
750	880	300	12	250		13.1	18.4	25.9	43.6	67.5	100.6	151.2	221.4	339.9	520.3	717.3	913.1	1006.9

Table 1.6 · Flow coefficients K_V for Type 3241 Globe Valve with flow divider St III and with linear characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient K_V													
K_{VS}	C_V	DN	NPS		Seat \varnothing [mm]	0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
7.5	9	50	2	24	15	0.05	0.57	1.03	2.1	3.1	4.2	5.2	6.3	7.4	8.4	9.5	10.5	11.6
20	23	65 · 80	2½ · 3	38	15	0.63	0.83	1.23	3.0	5.4	7.7	10.1	12.5	14.9	17.2	19.6	22.0	24.4
30	35			48		0.92	1.25	1.94	4.5	8.5	12.5	20.5	28.5	36.5	40.5			
47	55	100 · 150	4 · 6	63	30	1.35	2.1	4.2	10.3	17.2	23.9	30.6	37.4	44.1	50.8	57.5	64.3	71.0
75	-	125 · 150	6	80	30	2.5	3.8	7.8	17.6	27.4	37.2	47.0	56.8	66.6	76.4	86.3	96.1	105.9
120	140	150	6	100	30	3.8	5.9	11.0	23.8	36.7	49.5	62.4	75.3	88.1	101.0	113.8	126.7	139.5
190	220	200 · 250 300	8 · 10 12	125	60	7.2	10.8	19.2	41.4	63.4	85.4	107.4	129.4	151.4	173.4	195.4	217.4	239.4
270	315			150		9.2	13.4	23.2	57.3	89.1	121.0	184.8	248.6	312.4	344.3			
480	560	250 · 300	10 · 12	200	120	16.2	35.4	56.8	102.3	150.4	198.4	246.5	294.5	342.6	390.6	438.7	486.7	531.4
750	880	300	12	250		13.1	21.0	48.9	138.0	232.9	327.9	422.9	517.9	612.9	707.8	802.8	897.8	984.3

Table 2.1 · Flow coefficients Kv for Type 3251 Globe Valve and Type 3256 Angle Valve without flow divider and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Seal Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Kv												
Kvs	Cv	DN	NPS			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
0.1	0.12				15	0.0022	0.0029	0.0038	0.0062	0.009	0.013	0.018	0.025	0.034	0.051	0.074	0.111	
0.16	0.2					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					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					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					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					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					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					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					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					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					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					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				0.43	0.52	0.63	0.95	1.44	2.2	3.9	6.9	11.2	15.5	19.7	23.6	26.5	
40	47				0.66	0.91	1.20	1.83	2.6	3.7	5.5	8.4	12.6	19.1	27.9	37.6	45.3	
63	75				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				1.51	1.80	2.2	3.5	5.7	9.3	14.7	23.5	37.9	58.8	78.2	93.8	104.4	
160	190				3.4	4.4	5.4	8.1	11.4	16.9	28.7	47.7	72.1	97.4	124.2	148.2	165.7	
250	290				5.4	7.6	9.9	14.9	19.8	26.9	38.3	55.9	89.0	153.4	212.5	261.7	293.5	
360	420				7.0	8.3	10.4	16.1	24.1	35.4	51.5	81.8	140.4	218.4	288.8	345.8	381.9	
630	735				12.2	17.2	22.6	37.3	71.8	131.5	222.7	327.6	419.4	498.1	561.3	602.2	625.6	

Table 2.2 · Flow coefficients K_v for Type 3251 Globe Valve and Type 3256 Angle Valve without flow divider and with linear characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Seat \varnothing [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K_v														
K_v	C_v	DN	NPS			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %		
0.1	0.12			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					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	0.188	0.204
0.25	0.3					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	0.284	0.308
0.4	0.5					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	0.510	0.553
0.63	0.75					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	0.832	0.902
1	1.2					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	1.30	1.40
1.6	2					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	2.07	2.24
2.5	3					0.054	0.16	0.29	0.54	0.80	1.07	1.33	1.60	1.86	2.1	2.4	2.7	2.9	3.2	3.5
4	5					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	5.4	5.9
6.3	7.5					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	8.3	9.0
10	12					0.20	0.61	1.12	2.2	3.3	4.4	5.5	6.6	7.7	8.8	9.9	11.0	12.1	13.2	14.3
16	20					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	21.0	22.8
25	30			0.54	0.86	1.53	4.0	6.5	9.0	11.5	14.1	16.6	19.1	21.6	24.2	26.7	29.2	31.7		
40	47			0.66	1.49	3.2	7.8	12.1	16.5	20.8	25.1	29.4	33.8	38.1	42.4	46.8	51.1	55.5		
63	75			1.21	1.75	4.1	11.1	18.2	25.2	32.3	39.4	46.4	53.5	60.5	67.6	74.7	81.7	88.8		
100	120			1.18	2.3	6.3	17.3	28.3	39.2	50.1	61.0	72.0	82.9	93.8	104.8	115.7	126.6	137.5		
160	190			2.4	4.8	10.5	25.3	41.0	56.6	72.3	88.0	103.7	119.3	135.0	150.7	164.9	180.5	196.1		
250	290			5.5	9.0	19.6	46.4	75.0	103.5	132.1	160.7	189.3	217.8	246.4	275.0	303.5	332.1	360.6		
360	420			5.6	16.1	32.3	67.1	101.2	135.3	169.4	203.6	237.7	271.8	305.9	340.0	362.7	396.8	430.9		
630	735			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	714.2	775.6		

Table 2.3 · Flow coefficients Kv for Type 3251 Globe Valve and Type 3256 Angle Valve with flow divider St I and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient Kv												
Kvs	Cv	DN	NPS		0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
1.45	1.7	15 · 25 40	½ · 1 1½	12	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
2.2	2.6				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
3.6	4.2	15 · 25 · 40 50 · 80	½" · 1 1½ · 2 · 3	24	0.078	0.093	0.11	0.17	0.25	0.35	0.50	0.70	1.06	1.65	2.6	4.3	6.4
5.7	7				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
9	10.5	25 · 40 50 · 80	1 · 1½ 2 · 3	24	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
14.5	17				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
22	26	40 · 50 80 · 100	1½ · 2 3 · 4	38	0.40	0.53	0.70	1.11	1.73	2.7	4.4	7.3	11.2	15.3	19.0	22.3	24.7
36	42				0.63	0.85	1.15	1.84	2.7	4.0	5.9	8.7	13.1	19.6	27.5	35.4	41.4
57	67	80 · 100 150	3 · 4 6	63	1.23	1.58	2.0	3.1	4.5	6.5	9.3	13.1	19.2	28.6	40.9	52.2	59.9
90	105				1.40	1.76	2.4	4.1	6.3	9.5	13.9	21.3	33.9	49.9	66.6	81.8	90.8
144	170	100 · 150 200	4 · 6 8	100	3.1	3.9	4.6	6.3	8.9	14.0	23.7	41.2	63.2	86.4	110.7	132.4	144.8
225	265				4.9	6.8	8.7	12.7	17.4	23.4	32.9	47.6	75.9	122.6	167.7	206.5	226.2
320	375	150 · 200	6 · 8	150	6.8	8.6	11.0	16.9	25.4	36.9	55.2	86.9	145.6	210.6	272.2	319.2	345.2
560	650				11.3	15.9	21.0	34.7	66.8	122.3	207.1	304.7	390.1	463.2	522.0	560.0	581.8

Table 2.4 · Flow coefficients K_v for Type 3251 Globe Valve and Type 3256 Angle Valve with flow divider St I and with linear characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K_v												
K_{vs}	C_v	DN	NPS			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
1.45	1.7	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	1.9
2.2	2.6					0.054	0.16	0.29	0.54	0.80	1.07	1.33	1.60	1.86	2.1	2.4	2.7	2.9
3.6	4.2	15 · 25 · 40 50 · 80	½ · 1 · 1½ 2 · 3	24	15	0.040	0.12	0.32	0.79	1.24	1.69	2.1	2.6	3.0	3.5	3.9	4.4	4.9
5.7	7					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
9	10.5	40 · 50 · 80	1 · 1½ 2 · 3	24	15	0.20	0.61	1.12	2.2	3.3	4.4	5.5	6.6	7.7	8.8	9.9	11.0	12.1
14.5	17					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
22	26	40 · 50 80 · 100	1½ · 2 3 · 4	38	15	0.32	0.81	1.63	3.7	5.9	8.2	10.4	12.6	14.8	17.1	19.3	21.5	23.7
36	42					0.54	1.72	3.6	7.5	11.5	15.4	19.4	23.3	27.3	31.2	35.2	39.1	43.1
57	67	80 · 100 150	3 · 4 6	63	30	1.02	2.22	4.3	10.3	16.3	22.3	28.4	34.4	40.4	46.5	52.5	58.5	64.5
90	105					0.83	4.2	8.3	17.2	25.9	34.6	43.3	52.0	60.7	69.4	78.1	86.8	95.5
144	170	100 · 150 200	4 · 6 8	100	30	2.30	4.8	9.6	23.1	37.2	51.3	65.4	79.5	93.6	107.7	121.8	135.9	150.0
225	265					4.26	7.62	15.96	37.85	60.53	83.22	105.90	128.6	151.3	174.0	196.6	219.3	242.0
320	375	150 · 200	6 · 8	125	60	5.2	14.8	29.8	61.7	93.1	124.5	155.9	187.3	218.6	250.0	281.4	312.8	333.6
560	650					9.4	27.0	54.1	112.3	169.4	226.5	283.6	340.7	397.8	454.9	512.0	569.2	607.1

Table 2.5 · Flow coefficients Kv for Type 3251 Globe Valve and Type 3256 Angle Valve with flow divider St III and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients Kvs	Cv	Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient Kv													
		DN	NPS		Seat Ø [mm]	0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
3	3.5					0.078	0.093	0.11	0.17	0.25	0.35	0.50	0.70	1.06	1.65	2.6	4.3	6.4
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	3.2	4.7	6.7	8.7
7.5	9					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
12	14	80	3	31	15	0.34	0.45	0.56	0.87	1.27	1.83	2.6	3.8	6.0	9.8	13.5	16.5	18.7
20	23	80 · 100	3 · 4	38	15	0.40	0.53	0.70	1.11	1.73	2.7	4.4	7.3	11.2	15.3	19.0	22.3	24.7
30	35				30	0.63	0.85	1.15	1.84	2.7	4.0	5.9	8.7	13.1	19.6	27.5	35.4	41.4
47	55	100 · 150	4 · 6	63	30	1.23	1.58	2.0	3.1	4.5	6.5	9.3	13.1	19.2	28.6	40.9	52.2	59.9
75	90	150	6	80		1.4	1.5	2.1	3.6	5.7	8.5	12.1	18.4	30.0	45.6	60.6	72.9	82.5
120	140	150 · 200	6 · 8	100	30	2.6	3.5	4.8	7.6	10.8	16.0	25.2	41.1	59.7	77.5	94.3	109.4	119.3
190	220				60	4.1	5.6	7.2	10.6	14.4	19.4	27.3	39.5	63.0	101.7	139.2	171.4	187.7
270	315	200	8	150	60	5.8	7.5	10.3	17.4	26.8	38.2	55.6	88.1	140.9	190.9	233.2	265.3	290.3

Table 2.6 · Flow coefficients Kv for Type 3251 Globe Valve and Type 3256 Angle Valve with flow divider St III with linear characteristic · Version with bellows up to max. 100 % travel

Coefficients Kvs	Cv	Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient Kv													
		DN	NPS		Seat Ø [mm]	0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
3	3.5					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
4.8	5.6	50 · 80	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
7.5	9					0.20	0.61	1.12	2.2	3.3	4.4	5.5	6.6	7.7	8.8	9.9	11.0	12.1
12	14	80	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
20	23	80 · 100	3 · 4	38	15	0.32	0.81	1.63	3.7	5.9	8.2	10.4	12.6	14.8	17.1	19.3	21.5	23.7
30	35				30	0.54	1.72	3.6	7.5	11.5	15.4	19.4	23.3	27.3	31.2	35.2	39.1	43.1
47	55	100 · 150	4 · 6	63	30	1.02	2.22	4.3	10.3	16.3	22.3	28.4	34.4	40.4	46.5	52.5	58.5	64.5
75	90	150	6	80	30	0.74	3.7	7.4	15.3	23.1	30.8	38.5	46.3	54.0	61.8	69.5	77.3	85.0
120	140	150 · 200	6 · 8	100	30	1.91	4.0	8.0	19.2	30.9	42.6	54.3	66.0	77.7	89.4	101.1	112.8	124.5
190	220				60	3.5	6.3	13.2	31.4	50.2	69.1	87.9	106.7	125.6	144.4	163.2	182.0	200.9
270	315	200	8	150	60	4.3	12.3	24.7	51.2	77.3	103.3	129.4	155.4	181.5	207.5	233.6	259.6	276.9

Table 3.1 · Flow coefficients K_v for Type 3254 Globe Valve without flow divider and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient K_v												
K_{vs}	C_v	DN	NPS		0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
63	75	80 · 100 · 150	3 · 4 · 6	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	30	1.51	1.80	2.2	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	30	3.4	4.4	5.4	8.1	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	60	5.4	7.6	9.9	14.9	19.8	26.9	38.3	55.9	89.0	153.4	212.4	261.7	293.5
360	420	150 · 200 250 300 · 400	6 · 8 10 12 · 16	60	7.0	8.3	10.4	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 · 400	8 · 10 12 · 16	60	12.2	17.2	22.6	37.3	71.8	131.5	222.7	327.6	419.4	498.1	561.3	602.2	625.6
1000	1150	250 · 300 400	10 · 12 16	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 · 400	12 · 16	120	22.1	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	400 · 500	16 · 20	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				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
4000	-	500	-	120	54.1	76.0	106.9	179.6	277.9	414.2	622.4	911.5	1399.6	2142.6	2953.5	3759.9	4146.1

Table 3.3 · Flow coefficients K_v for Type 3254 Globe Valve with flow divider St I and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Seat \varnothing [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K_v												
K_{vs}	C_v	DN	NPS			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
57	67	80 · 100 · 150	3 · 4 · 6	63	30	1.23	1.58	2.0	3.1	4.5	6.5	9.3	13.1	19.2	28.6	40.9	52.2	59.9
90	105	80 · 100 · 150 200 · 250	3 · 4 · 6 8 · 10	80	30	1.40	1.76	2.4	4.1	6.3	9.5	13.9	21.3	33.9	49.9	66.6	81.8	90.8
144	170	100 · 150 200 250 · 300	4 · 6 8 10 · 12	100	30	3.1	3.9	4.6	6.3	8.9	14.0	23.7	41.2	63.2	86.4	110.7	132.4	144.8
225	265	150 · 200 250 · 300	6 · 8 10 · 12	125	60	4.9	6.8	8.7	12.7	17.4	23.4	32.9	47.6	75.9	122.6	167.7	206.5	226.2
320	375	150 · 200 250 300 · 400	6 · 8 10 12 · 16	150	60	6.8	8.6	11.0	16.9	25.4	36.9	55.2	86.9	145.6	210.6	272.2	319.2	345.2
560	650	200 · 250 300 · 400	8 · 10 12 · 16	200	60	11.3	15.9	21.0	34.7	66.8	122.3	207.1	304.7	390.1	463.2	522.0	560.0	581.8
900	1040	250 · 300 400	10 · 12 16	250	120	14.2	20.0	28.1	47.2	73.0	108.9	163.6	239.6	367.9	563.2	776.4	988.3	1089.8
1350	1560	300 · 400	12 · 16	300	120	20.3	28.6	40.2	67.5	104.4	155.7	233.9	342.6	526.1	805.4	1110.2	1413.3	1558.5
1800	2080	400 · 500	16 · 20	350	120	25.6	35.9	50.6	85.0	131.5	196.0	294.5	431.2	662.2	1013.8	1397.4	1779.0	1961.7
2250	2600			400		32.3	45.3	63.7	107.1	165.8	247.1	371.3	543.7	834.9	1278.2	1761.9	2243.0	2473.4
3600	-	500	-	500	120	49.8	69.9	98.3	165.2	255.6	381.1	572.6	838.5	1287.6	1971.2	2717.2	3459.1	3814.4

Table 3.5 · Flow coefficients K_V for Type 3254 Globe Valve with flow divider St III and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient K_V													
					0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	
K_{VS}	C_V	DN	NPS	Seat \varnothing [mm]														
47	55	100 · 150	4 · 6	63	30	1.23	1.58	2.0	3.1	4.5	6.5	9.3	13.1	19.2	28.6	40.9	52.2	59.9
75	90	150 · 200 250	6 · 8 10	80	30	1.4	1.5	2.1	3.6	5.7	8.5	12.1	18.4	30.0	45.6	60.6	72.9	82.5
120	140	150 · 200	6 · 8	100	30	2.6	3.5	4.8	7.6	10.8	16.0	25.2	41.1	59.7	77.5	94.3	109.4	119.3
190	220	250 · 300	10 · 12	125	60	4.1	5.6	7.2	10.6	14.4	19.4	27.3	39.5	63.0	101.7	139.2	171.4	187.7
270	315	200 · 250 300 · 400	8 · 10 12 · 16	150	60	5.8	7.5	10.3	17.4	26.8	38.2	55.6	88.1	140.9	190.9	233.2	265.3	290.3
480	560	250 · 300 400	10 · 12 16	200	60	9.42	13.29	17.48	28.93	55.7	101.9	172.6	253.9	325.0	386.0	435.0	466.7	484.8
750	880	300 · 400	12 · 16	250	120	15.5	21.9	29.6	49.2	72.9	106.9	155.6	225.0	326.2	466.6	610.5	742.6	831.3
1100	1280	400	16	300	120	16.1	22.7	31.9	53.6	82.9	123.5	185.6	271.8	417.4	639.0	880.9	1121.4	1236.6
1500	1730	400 · 500	16 · 20	350	120	20.6	28.9	40.7	68.4	105.7	157.6	236.9	346.9	532.6	815.4	1124.0	1430.9	1577.9
1900	-	500	-	400	120	26.3	36.9	52.0	87.3	135.1	201.4	302.7	443.3	680.6	1042.0	1436.4	1828.5	2016.3
3000	-			500		40.8	57.4	80.7	135.6	209.8	312.7	469.9	688.1	1056.7	1617.7	2229.9	2838.7	3130.3

Table 3.6 · Flow coefficients K_V for Type 3254 Globe Valve with flow divider St III and with linear characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient K_V													
					0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	
K_{VS}	C_V	DN	NPS	Seat \varnothing [mm]														
47	55	100 · 150	4 · 6	63	30	1.02	2.22	4.3	10.3	16.3	22.3	28.4	34.4	40.4	46.5	52.5	58.5	64.5
75	90	150 · 200 250	6 · 8 10	80	30	0.74	3.7	7.4	15.3	23.1	30.8	38.5	46.3	54.0	61.8	69.5	77.3	85.0
120	140	150 · 200	6 · 8	100	30	1.91	4.0	8.0	19.2	30.9	42.6	54.3	66.0	77.7	89.4	101.1	112.8	124.5
190	220	250 · 300	10 · 12	125	60	3.5	6.3	13.2	31.4	50.2	69.1	87.9	106.7	125.6	144.4	163.2	182.0	200.9
270	315	200 · 250 300 · 400	8 · 10 12 · 16	150	60	4.3	12.3	24.7	51.2	77.3	103.3	129.4	155.4	181.5	207.5	233.6	259.6	276.9
480	560	250 · 300 400	10 · 12 16	200	60	7.6	21.9	44.0	91.2	137.6	183.9	230.3	276.6	323.0	369.3	415.7	462.1	492.8
750	880	300 · 400	12 · 16	250	120	15.0	24.7	54.1	127.9	206.7	285.5	364.4	443.2	522.0	600.8	679.6	758.4	837.2
1100	1280	400	16	300	120	18.3	52.6	105.6	219.2	330.6	442.0	553.4	664.8	776.2	887.6	999.0	1110.4	1192.2
1500	1730	400 · 500	16 · 20	350	120	28.2	46.4	101.6	240.3	388.3	536.3	684.3	832.3	980.3	1128.3	1276.3	1424.3	1572.4
1900	-	500	-	400	120	30.2	86.9	174.3	361.8	545.6	729.5	913.4	1097.3	1281.2	1465.0	1648.9	1832.8	1968.1
3000	-			500		46.4	133.2	267.3	554.7	836.6	1118.5	1400.4	1682.4	1964.3	2246.2	2528.1	2810.1	3009.6



Table 4.1 · Flow coefficients Cv for Type 3241 Globe Valve without flow divider and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient Cv															
Cv	Kvs	NPS	DN		Seat Ø [mm]	0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %		
0.12	0.1	1/2 · 3/4 1	15 · 20 25	3	15	0.002	0.0028	0.0035	0.005	0.0069	0.0097	0.015	0.0222	0.0311	0.0483	0.0743	0.1139	0.1734		
0.2	0.16					0.0022	0.0028	0.0037	0.0055	0.0082	0.0134	0.0208	0.0312	0.0462	0.0671	0.1075	0.1688	0.2587	0.3887	0.5687
0.3	0.25					0.0044	0.0051	0.0062	0.0095	0.0157	0.0243	0.0368	0.0557	0.0886	0.1376	0.2139	0.3242	0.4842	0.7142	1.0642
0.5	0.4	1/2 · 3/4 1	15 · 20 25 · 32 40 · 50	6	15	0.0092	0.0104	0.0127	0.022	0.0335	0.0509	0.074	0.1075	0.1514	0.2208	0.3283	0.504	0.8705		
0.75	0.63					0.015	0.022	0.0277	0.0416	0.0613	0.0832	0.1191	0.1653	0.2462	0.3642	0.5329	0.7815	1.1561	1.7161	2.5161
1.2	1					0.022	0.0289	0.0358	0.0509	0.0763	0.1121	0.1723	0.2613	0.3908	0.5723	0.8532	1.2717	1.8817	2.7817	4.0817
2	1.6	1/2 · 2	20 · 25 · 32 40 · 50	12	15	0.0277	0.0379	0.0474	0.0725	0.111	0.1699	0.2555	0.3919	0.5954	0.9006	1.341	1.9769	2.9942		
3	2.5					0.0393	0.0532	0.0694	0.1133	0.1769	0.2763	0.4208	0.6405	0.9723	1.4335	2.0925	3.2023	4.8023	7.1023	10.6023
5	4					0.09	0.11	0.14	0.20	0.31	0.44	0.65	1.01	1.61	2.74	4.08	6.11	9.01	13.31	19.61
7.5	6.3	3/4 · 1 1 1/2 · 2	20 · 25 · 32 40 · 50	24	15	0.16	0.20	0.24	0.35	0.49	0.73	1.10	1.56	2.31	3.40	5.02	7.69	10.52		
12	10					0.23	0.29	0.36	0.54	0.82	1.13	1.71	2.68	4.18	6.59	9.93	14.86	22.29	33.43	50.16
20	16	1 1/2 · 2	32 · 40 · 50	31	15	0.40	0.51	0.61	0.90	1.38	2.07	3.01	4.39	6.47	9.83	14.34	21.61	31.61		
30	25					0.62	0.75	0.92	1.32	1.99	3.01	4.74	7.86	12.02	17.23	25.54	37.86	55.19	81.48	119.87
47	40	2 · 2 1/2 · 3	50 · 65 · 80	48	15	1.02	1.23	1.56	2.66	5.32	10.06	16.76	23.58	30.17	45.72	68.58	102.87	151.87		
70	60					1.97	2.20	2.54	3.82	6.47	12.02	21.27	30.40	39.77	48.32	56.99	65.09	71.56	77.03	82.50
75	63	4 · 6	100 · 150	63	30	2.31	2.66	3.01	4.05	5.90	8.32	12.02	17.11	25.78	39.88	57.11	84.39	121.68		
95	80					2.77	3.47	4.28	6.24	9.13	13.76	22.54	32.83	44.62	57.80	71.33	85.55	99.08	112.61	126.14
120	100	4 · 6	100 · 125 150	80	30	1.21	1.66	2.31	3.93	6.47	9.71	15.72	26.47	46.13	69.25	93.06	114.68	133.99		
190	160					4.39	5.32	6.24	8.90	12.83	20.23	36.07	59.19	87.63	115.61	144.86	171.21	190.64	210.07	229.50
-	200	-	125	110	30	4.74	6.47	7.75	11.10	14.57	19.77	31.10	51.21	89.25	133.99	180.0	221.85	250.98		
290	250	8 · 10 12	200 · 250 300	125	60	9.36	10.75	12.25	16.30	23.47	33.29	48.44	68.55	103.82	160.46	229.25	338.84	488.43	687.92	
300	260					8.09	9.71	12.83	22.54	42.54	77.57	116.53	157.34	196.07	235.49	271.79	305.32	334.45	363.58	392.71
420	360	8 · 10 12	200 · 250 300	150	60	9.48	12.02	15.26	22.66	33.06	47.86	66.94	106.24	178.61	268.32	360.12	450.98	518.84	586.70	
735	630					18.38	22.66	27.98	40.35	68.55	130.75	231.33	344.51	472.72	558.96	630.17	670.98	703.47	735.96	768.45
1150	1000	10 · 12	250 · 300	250	120	17.92	25.09	35.26	59.31	91.79	136.76	205.55	301.04	462.31	707.75	975.61	1241.8	1369.5	1507.2	
1730	1500					23.24	32.60	45.90	77.11	119.31	177.92	267.28	391.33	600.92	920.00	1268.2	1614.1	1717.8	1816.5	1915.2

Table 4.2 · Flow coefficients Cv for Type 3241 Globe Valve without flow divider and with linear characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size			Rated travel [mm]	Travel in % and associated flow coefficient Cv												
Cv	Kvs	NPS	DN	Seat Ø [mm]		0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
0.12	0.1	½ · ¾ 1	15 · 20 25	3	15	0.0016	0.0109	0.0185	0.0312	0.0416	0.052	0.0613	0.0728	0.0832	0.0948	0.1064	0.1168	0.1295
0.2	0.16					0.0037	0.0129	0.022	0.0382	0.0555	0.074	0.0925	0.1121	0.1306	0.1491	0.1676	0.1861	0.2058
0.3	0.25					0.0057	0.0289	0.0451	0.074	0.1017	0.1283	0.1561	0.1838	0.2104	0.2382	0.2659	0.2936	0.3202
0.5	0.4	½ · ¾ 1 1½ · 2	15 · 20 25 · 32 40 · 50	6	15	0.0068	0.0393	0.0671	0.1191	0.1653	0.2127	0.2601	0.3075	0.3549	0.4023	0.4497	0.496	0.5434
0.75	0.63					0.0076	0.0566	0.0983	0.1734	0.2439	0.3133	0.3838	0.4543	0.5249	0.5954	0.6647	0.7353	0.8058
1.2	1					0.0104	0.0809	0.1399	0.2532	0.3711	0.489	0.6069	0.7249	0.8428	0.9607	1.0786	1.1965	1.3156
2	1.6			0.0289		0.1214	0.2162	0.4069	0.6046	0.8012	0.9988	1.1965	1.3931	1.5954	1.7919	1.9884	2.185	
3	2.5			0.0532		0.1595	0.289	0.5769	0.9017	1.2254	1.5491	1.8728	2.1965	2.5434	2.8902	3.1214	3.4682	
5	4			0.05		0.28	0.51	0.97	1.43	1.90	2.31	2.77	3.24	3.70	4.16	4.74	5.20	
7.5	6.3	¾ · 1 1½ · 2	20 · 25 32 · 40 · 50	24	15	0.09	0.50	0.87	1.57	2.31	3.01	3.70	4.39	5.09	5.78	6.47	7.17	7.86
12	10					0.10	0.73	1.27	2.43	3.58	4.86	6.01	7.17	8.32	9.48	10.64	11.91	13.06
20	16	1½ · 2	32 · 40 · 50	31	15	0.42	1.42	2.31	4.16	5.90	7.75	9.60	11.45	13.18	15.14	17.23	19.31	21.39
30	25	1½ · 2 2½ · 3	40 · 50 65 · 80	38	15	0.68	0.89	1.41	3.47	6.47	9.36	12.37	15.26	18.27	21.27	24.16	27.17	30.17
47	40					1.06	1.45	2.24	5.20	9.94	14.91	19.88	24.86	29.83	34.80	39.77	44.74	49.71
70	60	2½ · 3	65 · 80	63	15	1.16	5.55	9.48	17.34	25.20	32.95	40.81	48.21	55.14	61.50	67.86	74.34	80.69
75	63	4 · 6	100 · 150	63	30	1.97	2.89	5.32	13.18	21.39	29.60	37.80	46.13	54.34	62.54	70.75	78.96	87.17
95	80	3	80	80	15	1.50	5.20	8.90	15.72	22.54	29.36	37.34	46.24	56.30	66.36	76.42	86.36	96.42
120	100	4 · 6	100 · 125 150	80	30	2.89	4.39	9.02	22.54	36.07	49.60	63.12	76.53	90.06	103.58	117.11	130.64	144.16
190	160			100	30	4.86	6.82	12.95	31.79	49.94	67.98	86.13	104.28	122.43	140.58	158.61	176.76	192.83
-	200	-	125	100	30	7.28	10.17	18.73	39.88	63.12	86.47	109.71	133.06	156.42	179.65	203.01	226.24	249.60
290	250	8 · 10 12	200 · 250 300	125	60	9.48	12.49	22.20	47.98	80.23	112.60	144.86	177.23	209.60	241.85	274.22	306.47	338.84
300	260			130	30	6.94	9.48	13.87	29.48	56.88	93.64	135.03	173.53	210.52	246.71	282.89	319.08	350.87
420	360	8 · 10 12	200 · 250 300	150	60	10.64	15.49	26.82	66.24	115.03	163.93	212.83	261.62	310.52	359.42	408.21	457.11	506.01
735	630			200	30	22.08	48.09	77.34	139.19	204.51	269.83	335.26	400.58	465.90	531.21	596.65	661.97	722.66
1150	1000	10 · 12	250 · 300	250	120	17.80	28.55	66.47	187.63	316.88	446.01	575.14	704.39	833.53	962.77	1091.9	1221.0	1338.7
1730	1500			300	30	23.24	38.38	103.93	275.49	443.58	611.68	779.77	947.86	1115.9	1284.1	1452.1	1620.2	1719.0

Table 4.3 · Flow coefficients Cv for Type 3241 Globe Valve with flow divider S1 I and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Seal Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Cv												
Cv	Kvs	NPS	DN			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
1.7	1.45	1/2 · 3/4 1	15 · 20 25	12	15	0.03	0.04	0.05	0.07	0.11	0.16	0.23	0.37	0.58	0.88	1.32	1.94	3.01
2.6	2.2					0.03	0.03	0.05	0.09	0.16	0.40	0.62	0.95	1.41	2.07	3.12	4.28	
4.2	3.6					0.08	0.09	0.12	0.18	0.29	0.66	0.99	1.53	2.54	3.82	4.62	5.09	
7	5.7	1 1/2 · 2	32 · 40 50	24 31	15	0.16	0.2	0.24	0.35	0.49	0.73	1.09	1.55	2.31	3.47	5.09	7.98	11.21
10.5	9					0.23	0.28	0.34	0.51	0.77	1.65	2.54	4.05	6.59	9.48	12.37	14.68	
17	14.5					0.31	0.43	0.55	0.81	1.24	2.66	3.93	5.78	9.02	13.41	17.69	20.81	
26	22	1 1/2 · 2 2 1/2 · 3	40 · 50 65 · 80	38	15	0.60	0.69	0.84	1.32	2.01	3.01	4.86	8.21	13.29	17.92	21.97	25.66	28.90
42	36					0.87	0.94	1.14	2.31	4.97	15.38	21.50	27.17	32.25	36.65	40.92	44.05	
62	54					2 · 2 1/2 · 3	65 · 80	63	15	2.20	2.66	3.12	4.28	6.94	13.29	21.85	31.21	39.08
67	57	4 · 6	100 · 150	63	30	1.62	2.31	2.89	4.16	5.90	8.32	12.02	16.65	24.74	38.15	52.60	65.55	74.91
85	72	3	80	80	15	3.01	3.82	4.51	6.47	10.40	19.88	33.53	44.16	53.76	62.31	69.71	76.53	81.16
105	90	4 · 6	100 · 125 150	80	30	1.97	2.77	3.58	5.43	8.21	11.91	17.92	27.86	44.86	64.39	81.39	97.46	109.94
170	144	4 · 6	100 · 150	100	30	3.58	4.16	4.97	7.05	9.83	15.26	25.78	41.50	61.73	85.32	115.26	152.25	167.98
-	180	-	125	110	30	4.74	6.47	7.75	11.10	14.57	17.34	27.40	44.97	78.50	117.92	158.38	195.26	220.92
265	225	8 · 10 12	200 · 250 300	125	60	9.25	10.52	12.02	16.18	21.62	30.64	44.62	63.12	95.49	147.63	210.87	267.28	311.79
275	234	6	150	130	30	7.98	9.60	12.72	22.54	36.18	65.90	99.08	133.76	166.59	200.23	231.10	259.54	284.28
375	320	8 · 10 12	200 · 250 300	150 200	60	9.60	12.02	15.26	22.54	32.95	47.51	67.17	106.71	181.62	268.67	347.28	413.06	475.72
650	560	10 · 12	250 · 300	250	120	16.07	22.54	31.79	53.41	82.66	123.12	184.97	270.98	416.07	636.99	878.03	1117.7	1232.5
1040	900	12	300	300		20.92	29.36	41.27	69.36	107.40	160.12	240.58	352.25	540.92	827.98	1141.4	1452.7	1546.0

Table 4.4 · Flow coefficients Cv for Type 3241 Globe Valve with flow divider St I and with linear characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Cv												
Cv	Kvs	NPS	DN			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
1.7	1.45	1/2 · 3/4 1	15 · 20 25	12	15	0.02	0.10	0.18	0.37	0.57	0.76	0.96	1.14	1.34	1.54	1.72	2.08	
2.6	2.2					0.03	0.13	0.25	0.53	0.87	1.19	1.53	1.85	2.20	2.54	2.89	3.12	3.47
4.2	3.6					0.02	0.24	0.50	0.95	1.39	1.83	2.31	2.66	3.12	3.58	4.05	4.39	4.86
7	5.7	1 1/2 · 2	32 · 40 50	24	15	0.12	0.58	0.92	1.62	2.31	3.01	3.82	4.51	5.20	5.90	6.59	7.98	
10.5	9					0.06	0.66	1.19	2.43	3.58	4.86	6.01	7.28	8.55	9.71	10.98	12.14	13.41
17	14.5					0.03	1.23	2.08	3.82	5.66	7.40	9.13	10.98	12.72	14.45	16.30	18.03	19.77
26	22	1 1/2 · 2 2 1/2 · 3	40 · 50 65 · 80	38	15	0.68	0.91	1.56	3.82	6.47	9.13	11.79	14.45	17.11	19.77	22.43	27.75	
42	36					1.06	1.45	2.24	5.20	9.83	14.45	19.08	23.70	28.32	32.95	37.57	42.20	46.82
62	54					1.04	5.32	9.48	16.99	24.51	31.91	38.61	44.51	49.71	54.68	59.65	64.62	69.60
67	57	4 · 6	100 · 150	63	30	1.62	2.43	4.86	11.91	19.88	27.63	35.38	43.24	50.98	58.73	66.47	74.34	82.08
85	72					1.39	4.16	7.17	14.45	21.73	29.60	37.46	45.32	53.18	61.04	68.79	76.65	81.39
105	90					2.43	4.05	8.90	20.69	31.68	42.66	53.64	64.51	75.49	86.47	97.46	108.44	119.42
170	144	4 · 6	100 · 150	100	30	4.62	7.40	13.29	29.60	45.32	61.04	76.76	92.37	108.09	123.82	139.54	155.26	167.86
-	180					7.28	10.17	18.73	39.88	59.77	79.65	99.54	119.54	139.42	159.31	179.19	199.19	219.08
265	225					8 · 10 12	200 · 250 300	125	60	9.48	12.49	22.20	47.98	77.23	106.47	135.72	164.97	194.22
275	234	8 · 10 12	200 · 250 300	150	30	6.82	9.48	13.87	29.48	59.77	89.94	120.12	150.40	180.58	210.75	241.04	271.21	301.39
375	320					10.64	15.49	26.82	66.24	108.79	151.33	193.87	236.42	279.08	321.62	364.16	406.71	449.25
650	560					22.08	48.09	77.34	139.19	197.11	255.03	312.83	370.75	428.67	486.59	544.51	602.43	660.23
1040	900	10 · 12	250 · 300	250	120	15.95	25.66	59.88	168.90	285.09	401.39	517.69	633.87	750.17	866.47	982.66	1098.9	1204.9
1560	1350					20.92	34.57	93.53	247.98	399.19	550.52	701.85	853.06	1004.4	1155.6	1306.9	1458.1	1547.1

Table 4.5 · Flow coefficients Cv for Type 3241 Globe Valve with flow divider St III and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients	Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Cv													
	Kvs	NPS			DN	0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
9	7.5	2	50	24	15	0.23	0.28	0.34	0.51	0.77	1.11	1.65	2.54	4.05	6.59	9.48	12.37	14.68
23	20	2½ · 3	65 · 80	38	15	0.60	0.69	0.84	1.27	1.97	3.01	4.86	8.21	13.29	17.92	21.97	25.66	28.90
35	30			48		0.87	0.94	1.14	2.31	4.97	9.36	15.38	21.50	27.17	32.25	36.65	40.92	44.05
55	47	4 · 6	100 · 150	63	30	1.73	1.97	2.31	3.24	4.62	6.59	9.71	13.87	20.92	32.83	47.28	60.35	70.75
-	75	-	125 · 150	80	30	1.27	1.62	2.31	3.93	6.13	8.67	13.41	22.43	39.19	58.84	79.08	97.46	113.87
140	120	6	150	100	30	4.39	5.20	6.13	8.79	12.25	17.46	29.60	48.55	71.91	94.80	118.84	140.35	156.30
220	190	8 · 10 12	200 · 250 300	125	60	7.98	9.60	11.56	16.18	21.50	28.44	39.77	56.18	85.09	131.56	187.98	238.15	277.92
315	270			150		9.36	11.91	14.80	21.97	33.76	48.09	66.01	97.92	148.44	210.98	280.35	354.22	389.71
560	480	10 · 12	250 · 300	200	120	15.61	19.31	23.70	34.34	58.27	111.10	196.65	292.83	401.85	475.14	535.61	570.29	597.92
880	750	12	300	250		15.14	21.27	29.94	50.40	78.03	116.30	174.80	255.95	392.95	601.50	829.25	1055.6	1164.1

Table 4.6 · Flow coefficients Cv for Type 3241 Globe Valve with flow divider St III and with linear characteristic · Version with bellows up to max. 100 % travel

Coefficients	Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Cv													
	Kvs	NPS			DN	0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
9	7.5	2	50	24	15	0.06	0.66	1.19	2.43	3.58	4.86	6.01	7.28	8.55	9.71	10.98	12.14	13.41
23	20	2½ · 3	65 · 80	38	15	0.73	0.96	1.42	3.47	6.24	8.90	11.68	14.45	17.23	19.88	22.66	25.43	28.21
35	30			48		1.06	1.45	2.24	5.20	9.83	14.45	19.08	23.70	28.32	32.95	37.57	42.20	46.82
55	47	4 · 6	100 · 150	63	30	1.56	2.43	4.86	11.91	19.88	27.63	35.38	43.24	50.98	58.73	66.47	74.34	82.08
-	75	-	125 · 150	80	30	2.89	4.39	9.02	20.35	31.68	43.01	54.34	65.66	76.99	88.32	99.77	111.10	122.43
140	120	6	150	100	30	4.39	6.82	12.72	27.51	42.43	57.23	72.14	87.05	101.85	116.76	131.56	146.47	161.27
220	190	8 · 10 12	200 · 250 300	125	60	8.32	12.49	22.20	47.98	73.29	98.73	124.16	149.60	175.03	200.46	225.90	251.33	276.76
315	270			150		10.64	15.49	26.82	66.24	103.01	139.88	176.76	213.64	250.52	287.40	324.28	361.16	398.03
560	480	10 · 12	250 · 300	200	120	18.73	40.92	65.66	118.27	173.87	229.36	284.97	340.46	396.07	451.56	507.17	562.66	614.34
880	750	12	300	250		15.14	24.28	56.53	159.54	269.25	379.08	488.90	598.73	708.55	818.27	928.09	1037.9	1137.9

Table 5.1 · Flow coefficients Cv for Type 3251 Globe Valve and Type 3256 Angle Valve without flow divider and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Cv												
Cv	Kvs	NPS	DN			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
0.12	0.1				15	0.0025	0.0034	0.0044	0.0072	0.0104	0.0150	0.0208	0.0289	0.0393	0.0590	0.0855	0.1087	0.1283
0.2	0.16					0.0040	0.0053	0.0067	0.0101	0.0139	0.0197	0.0266	0.0358	0.0486	0.0705	0.1098	0.1815	0.2566
0.3	0.25					0.0064	0.0071	0.0079	0.0116	0.0162	0.0231	0.0347	0.0486	0.0717	0.1110	0.1827	0.2879	0.4139
0.5	0.4					0.0088	0.0101	0.0116	0.0173	0.0266	0.0416	0.0659	0.1006	0.1457	0.2092	0.3087	0.5075	1.00
0.75	0.63					0.0162	0.0197	0.0231	0.0324	0.0474	0.0694	0.1017	0.1457	0.2104	0.3075	0.4636	0.7769	1.2601
1.2	1					0.0254	0.0324	0.0393	0.0555	0.0798	0.1156	0.1734	0.2543	0.3699	0.5780	0.8786	1.2717	1.6763
2	1.6					0.0358	0.0451	0.0566	0.0879	0.1272	0.1965	0.2659	0.3931	0.5549	0.8324	1.2601	2.0231	3.3526
3	2.5					0.0590	0.0694	0.0855	0.1272	0.1850	0.2890	0.4277	0.6358	0.9249	1.3757	2.0578	3.0058	4.0462
5	4					0.09	0.10	0.13	0.20	0.29	0.40	0.58	0.81	1.23	1.91	3.01	4.97	7.40
7.5	6.3					0.16	0.21	0.25	0.38	0.57	0.80	1.14	1.68	2.54	3.70	5.43	7.75	10.06
12	10					0.24	0.32	0.42	0.65	0.94	1.31	1.78	2.54	3.58	5.20	7.63	10.87	12.37
20	16					0.39	0.52	0.65	1.01	1.47	2.12	3.01	4.39	6.94	11.33	15.61	19.08	21.62
30	25				0.50	0.60	0.73	1.10	1.66	2.54	4.51	7.98	12.95	17.92	22.77	27.28	30.64	
47	40				0.76	1.05	1.39	2.12	3.01	4.28	6.36	9.71	14.57	22.08	32.25	43.47	52.37	
75	63				1.39	1.55	1.76	2.54	3.93	5.90	8.67	13.76	21.62	34.22	50.40	67.51	77.80	
120	100				1.75	2.08	2.54	4.05	6.59	10.75	16.99	27.17	43.82	67.98	90.40	108.44	120.69	
190	160				3.93	5.09	6.24	9.36	13.18	19.54	33.18	55.14	83.35	112.60	143.58	171.33	191.56	
290	250				6.24	8.79	11.45	17.23	22.89	31.10	44.28	64.62	102.89	177.34	245.66	302.54	339.31	
420	360				8.09	9.60	12.02	18.61	27.86	40.92	59.54	94.57	162.31	252.49	333.87	399.77	441.50	
735	630				14.10	19.88	26.13	43.12	83.01	152.02	257.46	378.73	484.86	575.84	648.90	696.18	723.24	

Table 5.2 · Flow coefficients Cv for Type 3251 Globe Valve and Type 3256 Angle Valve without flow divider and with linear characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient Cv														
Cv	Kvs	NPS	DN		Seat Ø [mm]	0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	
0.12	0.1			6	15	0.0025	0.0077	0.0139	0.0243	0.0347	0.0451	0.0555	0.0671	0.0775	0.0879	0.0983	0.1087	0.1191	
0.2	0.16					0.0040	0.0068	0.0127	0.0289	0.0474	0.0659	0.0855	0.1040	0.1237	0.1422	0.1618	0.1803	0.1988	
0.3	0.25					0.0045	0.0127	0.0254	0.0532	0.0809	0.1087	0.1353	0.1630	0.1908	0.2185	0.2462	0.2728	0.3006	
0.5	0.4					0.0101	0.0231	0.0439	0.0913	0.1422	0.1919	0.2416	0.2913	0.3410	0.3908	0.4405	0.4902	0.5399	
0.75	0.63	½ · 1	15 · 25			0.0150	0.0451	0.0798	0.1572	0.2370	0.3179	0.3977	0.4786	0.5584	0.6393	0.7191	0.80	0.8809	
1.2	1	1½	40			0.0220	0.1145	0.1954	0.3214	0.4393	0.5584	0.6775	0.7965	0.9156	1.0335	1.1561	1.2717	1.3873	
2	1.6			12	0.0405	0.1272	0.2197	0.4162	0.6127	0.8092	1.0058	1.2023	1.4104	1.6069	1.8035	2.0	2.1965		
3	2.5				0.0624	0.1850	0.3353	0.6243	0.9249	1.2370	1.5376	1.8497	2.1503	2.4277	2.7746	3.1214	3.3526		
5	4	½ · 1 · 1½ 2 · 3	15 · 25 · 40 50 · 80	24	15	0.05	0.14	0.37	0.91	1.43	1.95	2.43	3.01	3.47	4.05	4.51	5.09	5.66	
7.5	6.3	1 · 1½ 2 · 3	25 · 40 50 · 80	24	15	0.11	0.36	0.76	1.56	2.31	3.12	3.93	4.74	5.55	6.36	7.17	7.98	8.79	
12	10					0.23	0.71	1.29	2.54	3.82	5.09	6.36	7.63	8.90	10.17	11.45	12.72	13.99	
20	16	1½ · 2 · 3	40 · 50 · 80	31	15	0.22	1.10	2.07	4.05	6.13	8.09	10.17	12.14	14.22	16.18	18.27	20.23	22.31	
30	25	1½ · 2 3 · 4	40 · 50 80 · 100	38	15	0.62	0.99	1.77	4.62	7.51	10.40	13.29	16.30	19.19	22.08	24.97	27.98	30.87	
47	40	2 · 3 · 4	50 · 80 · 100	50	30	0.76	1.72	3.70	9.02	13.99	19.08	24.05	29.02	33.99	39.08	44.05	49.02	54.10	
75	63	3 · 4	80 · 100	63	30	1.40	2.02	4.74	12.83	21.04	29.13	37.34	45.55	53.64	61.85	69.94	78.15	86.36	
120	100	6	150	80		1.36	2.66	7.28	20.0	32.72	45.32	57.92	70.52	83.24	95.84	108.44	121.16	133.76	
190	160	4 · 6 8	100 · 150 200	100	30	2.77	5.55	12.14	29.25	47.40	65.43	83.58	101.73	119.88	137.92	156.07	174.22	190.64	
290	250	6 · 8	150 · 200	125	60	6.36	10.40	22.66	53.64	86.71	119.65	152.72	185.78	218.84	251.79	284.86	317.92	350.87	
420	360			150		6.47	18.61	37.34	77.57	116.99	156.42	195.84	235.38	274.80	314.22	353.64	393.06	419.31	
735	630	8	200	200	60	11.68	33.53	67.28	139.65	210.64	281.62	352.60	423.58	494.57	565.55	636.53	707.51	754.68	

Table 5.3 · Coefficients Cv for Type 3251 Globe Valve and Type 3256 Angle Valve with flow divider St I and equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient Cv													
Cv	Kvs	NPS	DN		0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	
1.7	1.45	½ · 1 1½	15 · 25 40	12	15	0.04	0.05	0.06	0.09	0.13	0.20	0.27	0.39	0.55	0.83	1.26	2.02	3.35
	2.6					0.06	0.07	0.09	0.13	0.18	0.29	0.43	0.64	0.92	1.38	2.06	3.01	4.05
4.2	3.6	½ · 1 1½ 2 · 3	15 · 25 40 50 · 80	24	15	0.09	0.11	0.13	0.20	0.29	0.40	0.58	0.81	1.23	1.91	3.01	4.97	7.40
						7	0.16	0.21	0.25	0.38	0.57	1.14	1.68	2.54	3.70	5.43	7.75	10.06
10.5	9	1 · 1½ 2 · 3	25 · 40 50 · 80	24	15	0.24	0.32	0.42	0.65	0.94	1.31	1.78	2.54	3.58	5.20	7.63	10.87	12.37
						17	0.39	0.52	0.65	1.01	1.47	3.01	4.39	6.94	11.33	15.61	19.08	21.62
26	22	½ · 2 3 · 4	40 · 50 80 · 100	38	15	0.46	0.61	0.81	1.28	2.0	3.12	5.09	8.44	12.95	17.69	21.97	25.78	28.55
						42	0.73	0.98	1.33	2.13	3.12	6.82	10.06	15.14	22.66	31.79	40.92	47.86
67	57	2 · 3 4	50 · 80 100	50	30	1.42	1.83	2.31	3.58	5.20	7.51	10.75	15.14	22.20	33.06	47.28	60.35	69.25
						105	1.62	2.03	2.77	4.74	7.28	10.98	16.07	24.62	39.19	57.69	76.99	94.57
170	144	4 · 6 8	100 · 150 200	100	30	3.58	4.51	5.32	7.28	10.29	16.18	27.40	47.63	73.06	99.88	127.98	153.06	167.40
						265	5.66	7.86	10.06	14.68	20.12	27.05	38.03	55.03	87.75	141.73	193.87	238.73
375	320	6 · 8	150 · 200	125	60	7.86	9.94	12.72	19.54	29.36	42.66	63.82	100.46	168.32	243.47	314.68	369.02	399.08
						650	13.06	18.38	24.28	40.12	77.23	141.39	239.42	352.25	450.98	535.49	603.47	647.40

Table 5.4 · Flow coefficients Cv for Type 3251 Globe Valve and Type 3256 Angle Valve with flow divider St I and linear characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient Cv													
Cv	Kvs	NPS	DN		Seat Ø [mm]	0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
1.7	1.45	½ · 1 1½	15 · 25 40	12	15	0.04	0.13	0.22	0.42	0.61	0.81	1.01	1.20	1.41	1.61	1.80	2.00	2.20
2.6	2.2					0.06	0.18	0.34	0.62	0.92	1.24	1.54	1.85	2.15	2.43	2.77	3.12	3.35
4.2	3.6	½ · 1 1½ 2 · 3	15 · 25 40 50 · 80	24	15	0.05	0.14	0.37	0.91	1.43	1.95	2.43	3.01	3.47	4.05	4.51	5.09	5.66
7	5.7					0.11	0.36	0.76	1.56	2.31	3.12	3.93	4.74	5.55	6.36	7.17	7.98	8.79
10.5	9	1 · 1½ 2 · 3	25 · 40 50 · 80	24	15	0.23	0.71	1.29	2.54	3.82	5.09	6.36	7.63	8.90	10.17	11.45	12.72	13.99
17	14.5					0.22	1.10	2.07	4.05	6.13	8.09	10.17	12.14	14.22	16.18	18.27	20.23	22.31
26	22	1½ · 2 3 · 4	40 · 50 80 · 100	38	15	0.37	0.94	1.88	4.28	6.82	9.48	12.02	14.57	17.11	19.77	22.31	24.86	27.40
42	36					0.62	1.99	4.16	8.67	13.29	17.80	22.43	26.94	31.56	36.07	40.69	45.20	49.83
67	57	2 · 3 4	50 · 80 100	63	30	1.18	2.57	4.97	11.91	18.84	25.78	32.83	39.77	46.71	53.76	60.69	67.63	74.57
105	90					0.96	4.86	9.60	19.88	29.94	40.0	50.06	60.12	70.17	80.23	90.29	100.35	110.40
170	144	4 · 6 8	100 · 150 200	100	30	2.66	5.55	11.10	26.71	43.01	59.31	75.61	91.91	108.21	124.51	140.81	157.11	173.41
265	225					4.92	8.81	18.45	43.76	69.98	96.21	122.43	148.67	174.91	201.16	227.28	253.53	279.77
375	320	6 · 8	150 · 200	150	60	6.01	17.11	34.45	71.33	107.63	143.93	180.32	216.53	252.72	289.02	325.32	361.62	385.66
650	560					10.87	31.21	62.54	129.83	195.84	261.85	327.86	393.87	459.88	525.90	591.91	658.03	701.85

Table 5.5 · Flow coefficients Cv for Type 3251 Globe Valve and Type 3256 Angle Valve with flow divider St III and equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Cv														
Cv	Kvs	NPS	DN			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %		
3.5	3	2 · 3	50 · 80	24	15	0.09	0.11	0.13	0.20	0.29	0.40	0.58	0.81	1.23	1.91	3.01	4.97	7.40		
5.6	4.8					0.16	0.21	0.25	0.38	0.57	0.80	1.14	1.68	2.54	3.70	5.43	7.75	10.06	12.37	
9	7.5					0.24	0.32	0.42	0.65	0.94	1.31	1.78	2.54	3.58	5.20	7.63	10.87	15.61	21.97	25.78
14	12	3	80	31	15	0.39	0.52	0.65	1.01	1.47	2.12	3.01	4.39	6.94	11.33	17.69	21.97	25.78	28.55	
23	20	3 · 4	80 · 100	38	15	0.46	0.61	0.81	1.28	2.00	3.12	4.62	6.82	10.06	15.14	22.20	33.06	47.28	60.35	69.25
35	30					0.73	0.98	1.33	2.13	3.12	4.62	6.82	10.06	15.14	22.20	33.06	47.28	60.35	69.25	74.86
55	47	4 · 6	100 · 150	63	30	1.42	1.83	2.31	3.58	5.20	7.51	10.75	15.14	22.20	33.06	47.28	60.35	69.25	74.86	
90	75	6	150	80	30	1.62	1.73	2.43	4.16	6.59	9.83	13.99	21.27	34.68	52.72	70.06	84.28	95.38	103.92	
140	120	6 · 8	150 · 200	100	30	3.01	4.05	5.55	8.79	12.49	18.50	29.13	47.51	69.02	89.60	109.02	126.47	137.92	143.93	
220	190					4.74	6.47	8.32	12.25	16.65	22.43	31.56	45.66	72.83	117.57	160.92	198.15	216.99	232.25	243.61
315	270	8	200	150	60	6.71	8.67	11.91	20.12	30.98	44.16	64.28	101.85	162.89	220.69	269.60	306.71	335.61	350.12	

Table 5.6 · Flow coefficients Cv for Type 3251 Globe Valve and Type 3256 Angle Valve with flow divider St III and linear characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Cv													
Cv	Kvs	NPS	DN			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	
3.5	3	2 · 3	50 · 80	24	15	0.05	0.14	0.37	0.91	1.43	1.95	2.43	3.01	3.47	4.05	4.51	5.09	5.66	
5.6	4.8					0.11	0.36	0.76	1.56	2.31	3.12	3.93	4.74	5.55	6.36	7.17	7.98	8.79	9.59
9	7.5					0.23	0.71	1.29	2.54	3.82	5.09	6.36	7.63	8.90	10.17	12.14	14.22	16.18	18.27
14	12	3	80	31	15	0.22	1.10	2.07	4.05	6.13	8.09	10.17	12.14	14.22	16.18	18.27	20.23	22.31	24.40
23	20	3 · 4	80 · 100	38	15	0.37	0.94	1.88	4.28	6.82	9.48	12.02	14.57	17.11	19.77	22.31	24.86	27.40	
35	30					0.62	1.99	4.16	8.67	13.29	17.80	22.43	26.94	31.56	36.07	40.69	45.20	49.83	54.44
55	47	4 · 6	100 · 150	63	30	1.18	2.57	4.97	11.91	18.84	25.78	32.83	39.77	46.71	53.76	60.69	67.63	74.57	
90	75	6	150	80	30	0.86	4.28	8.55	17.69	26.71	35.61	44.51	53.53	62.43	71.45	80.35	89.36	98.27	
140	120	6 · 8	150 · 200	100	30	2.21	4.62	9.25	22.20	35.72	49.25	62.77	76.30	89.83	103.35	116.88	130.40	143.93	
220	190					4.05	7.28	15.26	36.30	58.03	79.88	101.62	123.35	145.20	166.94	188.67	210.40	232.25	254.00
315	270	8	200	150	60	4.97	14.22	28.55	59.19	89.36	119.42	149.60	179.65	209.83	239.88	270.06	300.12	320.12	

Table 6.1 · Flow coefficients Cv for Type 3254 Globe Valve without flow divider and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients		Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient Cv													
Cv	Kvs	NPS	DN		Seat Ø [mm]	0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
75	63	3 · 4 6	80 · 100 150	63	30	1.39	1.55	1.76	2.54	3.93	5.90	8.67	13.76	21.62	34.22	50.40	67.51	77.80
120	100	3 · 4 6 8 · 10	80 · 100 150 200 · 250	80	30	1.75	2.08	2.54	4.05	6.59	10.75	16.99	27.17	43.82	67.98	90.40	108.44	120.69
190	160	4 · 6 8 10 · 12	100 · 150 200 250 · 300	100	30	3.93	5.09	6.24	9.36	13.18	19.54	33.18	55.14	83.35	112.60	143.58	171.33	191.56
290	250	6 · 8 10 · 12	150 · 200 250 · 300	125	60	6.24	8.79	11.45	17.23	22.89	31.10	44.28	64.62	102.89	177.34	245.66	302.54	339.31
420	360	6 · 8 10 12 · 16	150 · 200 250 300 · 400	150	60	8.09	9.60	12.02	18.61	27.86	40.92	59.54	94.57	162.31	252.49	333.87	399.77	441.50
735	630	8 · 10 12 · 16	200 · 250 300 · 400	200	60	14.10	19.88	26.13	43.12	83.01	152.02	257.46	378.73	484.86	575.84	648.90	696.18	723.24
1150	1000	10 · 12 16	250 · 300 400	250	120	17.92	25.09	35.26	59.31	91.79	136.76	205.55	301.04	462.31	707.75	975.61	1241.8	1369.5
1730	1500	12 · 16	300 · 400	300	120	25.55	35.84	50.52	84.86	131.21	195.61	293.99	430.52	661.04	1012.0	1395.0	1775.9	1958.4
2300	2000	16 · 20	400 · 500	350	120	32.14	45.20	63.58	106.82	165.20	246.24	370.06	541.85	832.14	1273.9	1755.9	2235.4	2465.1
2900	2500			400		40.58	56.99	80.12	134.68	208.32	310.52	466.59	683.24	1049.1	1606.1	2214.0	2818.5	3108.0
-	4000	-	500	500	120	62.54	87.86	123.58	207.63	321.27	478.84	719.54	1053.8	1618.0	2477.0	3414.5	4346.7	4793.2

Table 6.2 · Flow coefficients Cv for Type 3254 Globe Valve without flow divider and with linear characteristic · Version with bellows up to max. 100 % travel

Coefficients	Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Cv													
	Kvs	NPS			DN	0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
75	63	3 · 4 6	80 · 100 150	63	30	1.40	2.02	4.74	12.83	21.04	29.13	37.34	45.55	53.64	61.85	69.94	78.15	86.36
120	100	3 · 4 6 8 · 10	80 · 100 150 200 · 250	80	30	1.36	2.66	7.28	20.00	32.72	45.32	57.92	70.25	83.24	95.84	108.44	121.16	133.76
190	160	4 · 6 8 10 · 12	100 · 150 200 250 · 300	100	30	2.77	5.55	12.14	29.25	47.40	65.43	83.58	101.73	119.88	137.92	156.07	174.22	190.64
290	250	6 · 8 10 · 12	150 · 200 250 · 300	125	60	6.36	10.40	22.66	53.64	86.71	119.65	152.72	185.78	218.84	251.79	284.86	317.92	350.87
420	360	6 · 8 10 12 · 16	150 · 200 250 300 · 400	150	60	6.47	18.61	37.34	77.57	116.99	156.42	195.84	235.38	274.80	314.22	353.64	393.06	419.31
735	630	8 · 10 12 · 16	200 · 250 300 · 400	200	60	11.68	33.53	67.28	139.65	210.64	281.62	352.60	423.58	494.57	565.55	636.53	707.51	754.68
1150	1000	10 · 12 16	250 · 300 400	250	120	24.86	40.81	89.36	211.33	341.50	471.56	601.73	731.91	862.08	992.14	1122.3	1252.5	1382.7
1730	1500	12 · 16	300 · 400	300	120	29.83	85.78	172.02	356.88	538.27	719.65	901.04	1082.4	1263.8	1445.3	1626.7	1808.1	1941.3
2300	2000	16 · 20	400 · 500	350	120	44.16	72.49	158.73	375.38	606.59	837.80	1069.1	1300.4	1531.6	1762.8	1994.0	2225.2	2456.4
2900	2500			400		46.01	132.14	265.20	550.29	830.06	1109.7	1389.5	1669.1	1948.8	2228.6	2508.2	2788.0	2993.8
-	4000	-	500	500	120	73.99	212.49	426.24	884.51	1334.0	1783.6	2233.1	2682.7	3132.3	3581.7	4031.3	4480.8	4799.1

Table 6.3 · Flow coefficients Cv for Type 3254 Globe Valve with flow divider S1 and with equal percentage characteristic · Version with bellows up to max. 100 % travel

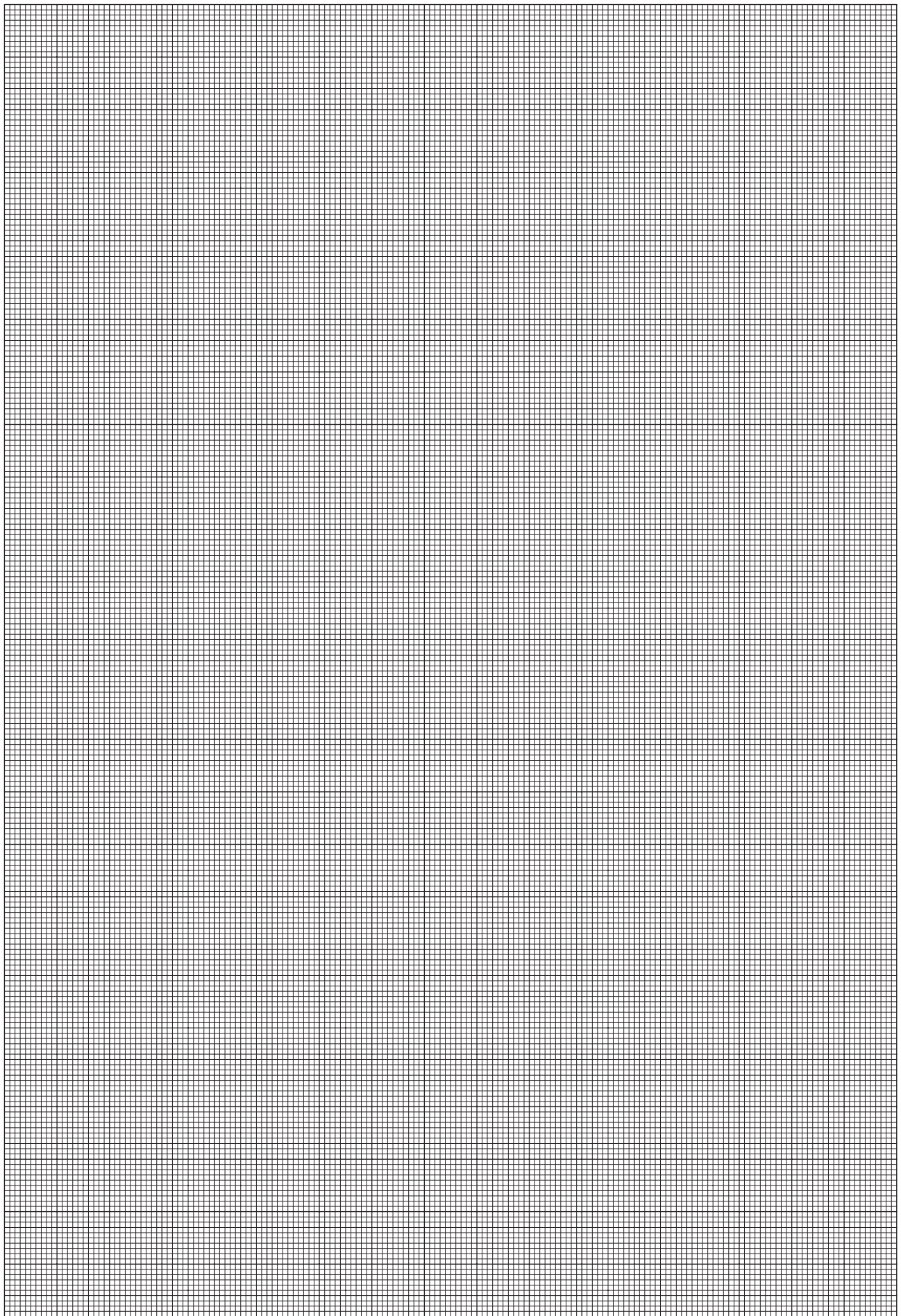
Coefficients		Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient Cv													
Cv	Kvs	NPS	DN		Seal Ø [mm]	0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
67	57	3 · 4 6	80 · 100 150	63	30	1.42	1.83	2.31	3.58	5.20	7.51	10.75	15.14	22.20	33.06	47.28	60.35	69.25
105	90	3 · 4 6 8 · 10	80 · 100 150 200 · 250	80	30	1.62	2.03	2.77	4.74	7.28	10.98	16.07	24.62	39.19	57.69	76.99	94.57	104.97
170	144	4 · 6 8 10 · 12	100 · 150 200 250 · 300	100	30	3.58	4.51	5.32	7.28	10.29	16.18	27.40	47.63	73.06	99.88	127.98	153.06	167.40
265	225	6 · 8 10 · 12	150 · 200 250 · 300	125	60	5.66	7.86	10.06	14.68	20.12	27.05	38.03	55.03	87.75	141.73	193.87	238.73	261.50
375	320	6 · 8 10 12 · 16	150 · 200 250 300 · 400	150	60	7.86	9.94	12.72	19.54	29.36	42.66	63.82	100.46	168.32	243.47	314.68	369.02	399.08
650	560	8 · 10 12 · 16	200 · 250 300 · 400	200	60	13.06	18.38	24.28	40.12	77.23	141.39	239.42	352.25	450.98	535.49	603.47	647.40	672.60
1040	900	10 · 12 16	250 · 300 400	250	120	16.42	23.12	32.49	54.57	84.39	125.90	189.13	276.99	425.32	651.10	897.57	1142.5	1259.9
1560	1350	12 · 16	300 · 400	300	120	23.47	33.06	46.47	78.03	120.69	180.00	270.40	396.07	608.21	931.10	1283.5	1633.9	1801.7
2080	1800	16 · 20	400 · 500	350	120	29.60	41.50	58.50	98.27	152.02	226.59	340.46	498.50	765.55	1172.0	1615.5	2056.7	2267.9
2600	2250			400		37.34	52.37	73.64	123.82	191.68	285.66	429.25	628.55	965.20	1477.7	2036.9	2593.1	2859.4
-	3600	-	500	500	120	57.57	80.81	113.64	190.98	295.49	440.58	661.97	969.36	1488.6	2278.8	3141.3	3999.0	4409.7

Table 6.5 · Flow coefficients Cv for Type 3254 Globe Valve with flow divider St III and with equal percentage characteristic · Version with bellows up to max. 100 % travel

Coefficients Cv	Kvs	Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient Cv												
		NPS	DN		0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
55	47	4 · 6	100 · 150	30	1.42	1.83	2.31	3.58	5.20	7.51	10.75	15.14	22.20	33.06	47.28	60.35	69.25
90	75	6 · 8 10	150 · 200 250	30	1.62	1.73	2.43	4.16	6.59	9.83	13.99	21.27	34.68	52.72	70.06	84.28	95.38
140	120	6 · 8	150 · 200	30	3.01	4.05	5.55	8.79	12.49	18.50	29.13	47.51	69.02	89.60	109.02	126.47	137.92
220	190	10 · 12	250 · 300	60	4.74	6.47	8.32	12.25	16.65	22.43	31.56	45.66	72.83	117.57	160.92	198.15	216.99
315	270	8 · 10 12 · 16	200 · 250 300 · 400	60	6.71	8.67	11.91	20.12	30.98	44.16	64.28	101.85	162.89	220.69	269.60	306.71	335.61
560	480	10 · 12 16	250 · 300 400	60	10.89	15.36	20.21	33.45	64.39	117.80	199.54	293.53	375.72	446.24	502.89	539.54	560.46
880	750	12 · 16	300 · 400	120	17.92	25.32	34.22	56.88	84.28	123.58	179.88	260.12	377.11	539.42	705.78	858.50	961.04
1280	1100	16	400	120	18.61	26.24	36.88	61.97	95.84	142.77	214.57	314.22	482.54	738.73	1018.4	1296.4	1429.6
1730	1500	16 · 20	400 · 500	120	23.82	33.41	47.05	79.08	122.20	182.20	273.87	401.04	615.72	942.66	1299.4	1654.2	1824.2
–	1900	–	500	120	30.40	42.66	60.12	100.92	156.18	232.93	349.94	512.49	786.82	1204.6	1660.6	2113.9	2331.0
–	3000	–	500	120	47.17	66.36	93.29	156.76	242.54	361.50	543.24	795.49	1221.6	1870.2	2577.9	3281.7	3618.8

Table 6.6 · Flow coefficients Cv for Type 3254 Globe Valve with flow divider St III and with linear characteristic · Version with bellows up to max. 100 % travel

Coefficients Cv	Kvs	Nominal size		Rated travel [mm]	Travel in % and associated flow coefficient Cv												
		NPS	DN		0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
55	47	4 · 6	100 · 150	30	1.18	2.57	4.97	11.91	18.84	25.78	32.83	39.77	46.71	53.76	60.69	67.63	74.57
90	75	6 · 8 10	150 · 200 250	30	0.86	4.28	8.55	17.69	26.71	35.61	44.51	53.53	62.43	71.45	80.35	89.36	98.27
140	120	6 · 8	150 · 200	30	2.21	4.62	9.25	22.20	35.72	49.25	62.77	76.30	89.83	103.35	116.88	130.40	143.93
220	190	10 · 12	250 · 300	60	4.05	7.28	15.26	36.30	58.03	79.88	101.62	123.35	145.20	166.94	188.67	210.40	232.25
315	270	8 · 10 12 · 16	200 · 250 300 · 400	60	4.97	14.22	28.55	59.19	89.36	119.42	149.60	179.65	209.83	239.88	270.06	300.12	320.12
560	480	10 · 12 16	250 · 300 400	60	8.79	25.32	50.87	105.43	159.08	212.60	266.24	319.77	373.41	426.94	480.58	534.22	569.71
880	750	12 · 16	300 · 400	120	17.34	28.55	62.54	147.86	238.96	330.06	421.27	512.37	603.47	694.57	785.66	876.76	967.86
1280	1100	16	400	120	21.16	60.81	122.08	253.41	382.20	510.98	639.77	768.55	897.34	1026.1	1154.9	1283.7	1378.3
1730	1500	16 · 20	400 · 500	120	32.60	53.64	117.46	277.80	448.90	620.00	791.10	962.20	1133.3	1304.4	1475.5	1646.6	1817.8
–	1900	–	500	120	34.91	100.46	201.50	418.27	630.75	843.35	1055.9	1268.5	1481.2	1693.6	1906.2	2118.8	2275.3
–	3000	–	500	120	53.64	154.0	309.02	641.27	967.17	1293.1	1618.9	1945.0	2270.9	2596.8	2922.7	3248.7	3479.3





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2009-10