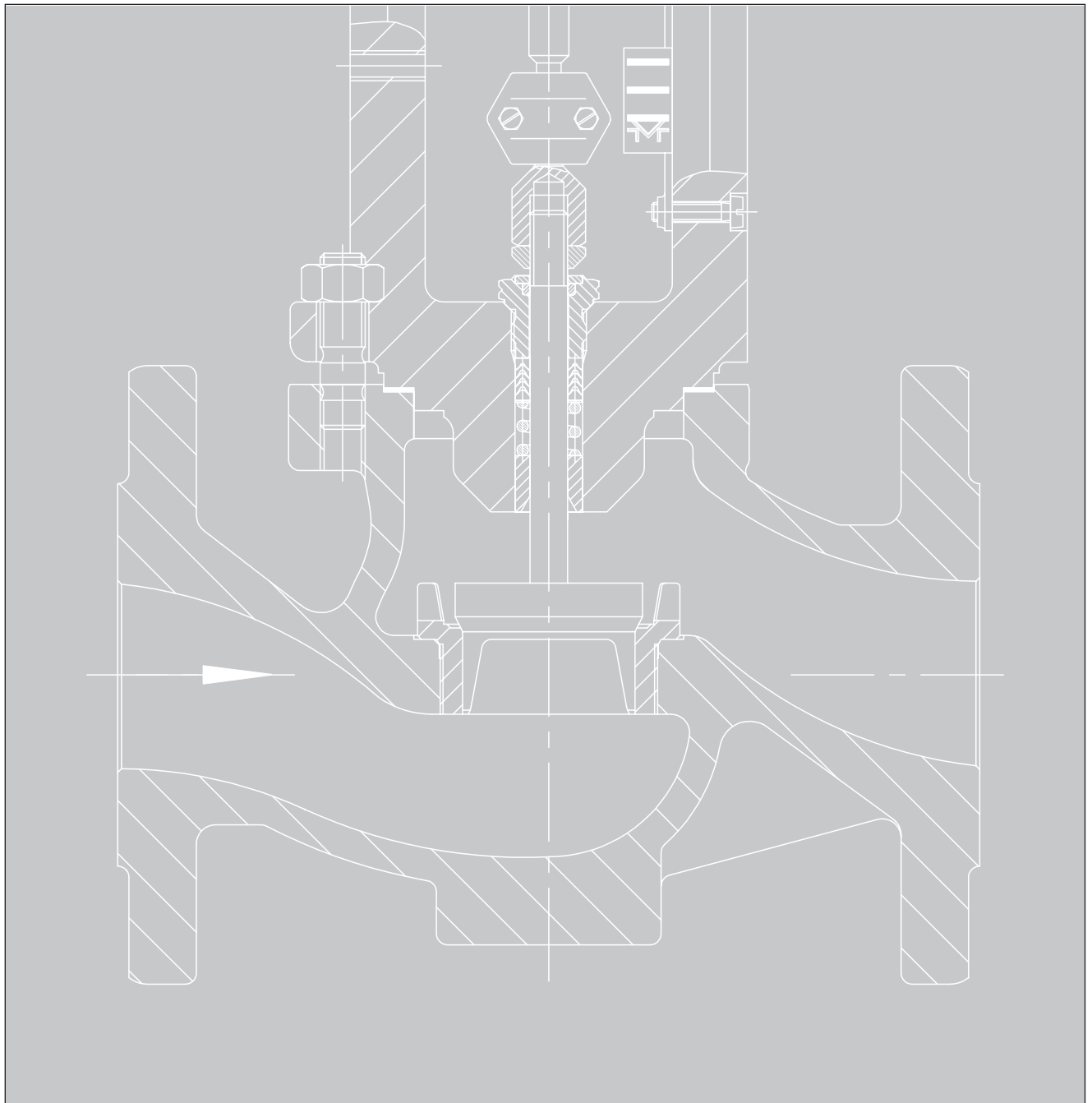


Information Sheet Part 3

Valve flow coefficients

Type 3241 • Type 3251 • Type 3254 • Type 3256



Valve characteristics

This Information Sheet contains valve flow coefficients (according to DIN EN 60534-2-3) measured on the SAMSON test bench for all available nominal sizes and flow coefficients K_V s 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 120 % to indicate the remaining reserve that the valves have.

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

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Table 1.1 · Flow coefficients K_v for Type 3241 Globe Valve without flow divider and with equal percentage characteristic

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K _v															
K _v s	C _v	mm	in			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %		
0.1	0.12	15 · 20 25	1/2" · 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	0.196		
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	0.351		
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	0.332		
0.4	0.5	15 · 20 25 · 32 40 · 50	1/2" · 3/4" 1" 1 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	1.1		
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	1.2		
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	1.31		
1.6	2	20 · 25 · 32 40 · 50	3/4" · 1" 1 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	3.6		
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	4.3		
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	4.6		
6.3	7.5	20 · 25 · 32 40 · 50	3/4" · 1" 1 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	11.0		
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	12.5		
16	20	32 · 40 · 50	1 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	19.2		
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	28.1		
40	47	50 · 65 · 80	2" · 2 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	45.1		
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	65.3		
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	83.1		
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	94.2		
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	130.0		
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	172.4		
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	230.6		
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	324.9		
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	310.2		
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	480.4		
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	636.7		
1000	1150	300	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	1215.6		
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	1502.5		

Table 1.2 · Flow coefficients Kv for Type 3241 Globe Valve without flow divider and with linear characteristic

Coefficient		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Kv													
Kvs	Cv	mm	in			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
0.1	0.12	15 · 20 25	1/2" · 3/4" 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	0.121
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	0.194
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	0.301
0.4	0.5	15 · 20 25 · 32 40 · 50	1/2" · 3/4" 1" 1 1/2" · 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	0.511
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	0.758
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	1.24
1.6	2	20 · 25 · 32 40 · 50	3/4" · 1" 1 1/2" · 2" 1 1/2" · 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	2.06
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	3.3
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	4.8
6.3	7.5	20 · 25 · 32 40 · 50	3/4" · 1" 1 1/2" · 2" 2 1/2" · 3"	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	7.4
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	12.3
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	20.5
25	30	40 · 50 65 · 80	1 1/2" · 2" 2 1/2" · 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	28.6
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	47.3
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	75.4
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	82.6
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	92.1
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	136.4
160	190	100 · 125 150	4" · 6"	80	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	177.8
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	236.1
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	321.1
260	300	200 · 250 300	8" · 10" 12"	125	60	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	334.3
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	480.0
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	659.3
1000	1150	300	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	1214.7
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	1505.3

Table 1.3 · Flow coefficients K_V for Type 3241 Globe Valve with flow divider S1 and with equal percentage characteristic

Coefficients		Nominal size		Seat \varnothing [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K_V																
K_{VS}	C_V	mm	in			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %			
1.45	1.7	15 · 20 25	$1\frac{1}{2}$ " · $\frac{3}{4}$ " 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	3.5			
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	4.4	7.1	10.7	16.4	24.4
3.6	4.2					0.066	0.081	0.10	0.16	0.25	0.37	0.57	0.86	1.32	2.00	3.0	4.4	6.9	10.7	16.4	24.4	35.7
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	10.7	16.4	24.4		
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	12.7	19.0	28.2	41.5	60.7	87.8
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	17.4	25.5	37.7	55.0	79.4	114.5
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	22.2	32.2	46.2	66.2	94.2		
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	40.2	42.3	44.4	46.5
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	56.5	58.6	60.7	62.8
57	67	100 · 150 80	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	66.2	94.2	132.2	188.2		
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	73.6	75.7	77.8	79.9
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	103.8	108.9	114.0	119.1
144	170	100 · 150 150	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	185.7	263.7	371.7		
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	202.9	214.0	225.1	236.2
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	298.9	328.0	357.1	386.2
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	263.7	281.5		
320	375					8.3	10.4	13.2	19.5	28.5	41.1	58.1	82.3	117.4	172.1	236.8	311.5	396.2	490.9	595.6	710.3	835.0
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	579.4	604.9	630.4	655.9
900	1040	300	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	1094.1	1122.1		
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	1352.2	1377.3	1402.4	1427.5

Table 1.4 · Flow coefficients K_v for Type 3241 Globe Valve with flow divider St I and with linear characteristic

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K _v												
K _{vS}	C _v	mm	in			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
1.45	1.7	15 · 20 25	1/2" · 3/4" 1"	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	2.0
2.2	2.6					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
5.7	7	32 · 40 50	1 1/2" · 2"	24	15	0.1	0.5	0.8	1.4	2.0	2.6	3.3	3.9	4.5	5.1	5.7	6.3	7.5
9	10.5					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
22	26	40 · 50 65 · 80	1/2" · 2" 2 1/2" · 3"	38	15	0.03	1.06	1.8	3.3	4.9	6.4	7.9	9.5	11.0	12.5	14.1	15.6	18.6
36	42					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
54	62	50 · 65 · 80	2" · 2 1/2" · 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	44.5
57	67					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
72	85	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	77.7
90	105					1.2	3.6	6.2	12.5	18.8	25.6	32.4	39.2	46.0	52.8	59.5	66.3	73.6
144	170	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	112.7
180	-					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
225	265	200 · 250 300	8" · 10" 12"	125	60	6.3	8.8	16.2	34.5	51.7	68.9	86.1	103.4	120.6	137.8	155.0	172.3	206.7
234	275					110	110	19.2	41.5	66.8	92.1	117.4	142.7	168.0	193.3	218.6	243.9	269.2
320	375	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	286.9
560	650					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
950	1040	300	12"	250	120	19.1	41.6	66.9	120.4	170.5	220.6	270.6	320.7	370.8	420.9	471.0	521.1	621.2
1350	1560					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
				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	1354.7

Table 2.1 · Flow coefficients K_v for Type 3251 Globe Valve and Type 3256 Angle Valve without flow divider and with equal percentage characteristic

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K _v												
K _v s	C _v	mm	in			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %
0.1	0.12					0.0022	0.0029	0.0038	0.0062	0.009	0.013	0.018	0.025	0.034	0.051	0.074	0.111	0.124
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	0.222	0.281
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	0.358	0.458
0.4	0.5			6	15	0.0076	0.0087	0.010	0.015	0.023	0.036	0.057	0.087	0.126	0.181	0.267	0.865	1.11
0.63	0.75	15 · 25 40	1/2" · 1" 1 1/2"		15	0.014	0.017	0.020	0.028	0.041	0.060	0.088	0.126	0.182	0.266	0.401	1.09	1.51
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	1.77
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	2.9	3.9
2.5	3			12		0.051	0.060	0.074	0.11	0.16	0.25	0.37	0.55	0.80	1.19	1.78	3.5	4.4
4	5	15 · 25 · 40 50 · 80	1/2" · 1" · 1 1/2" " · 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	6.4	8.2
6.3	7.5	25 · 40 50 · 80	1" · 1 1/2" 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	8.7	10.5
10	12					0.21	0.28	0.36	0.56	0.81	1.13	1.54	2.2	3.1	4.5	6.6	10.7	11.2
16	20	40 · 50 · 80	1 1/2" · 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	18.7	20.1
25	30	40 · 50 80 · 100	1 1/2" · 2" 3" · 4"	38	15	0.43	0.52	0.63	0.95	1.44	2.2	3.9	6.9	11.2	15.5	19.7	26.5	28.1
40	47	50 · 80 · 100	2" · 3" · 4"	50	30	0.66	0.91	1.20	1.83	2.6	3.7	5.5	8.4	12.6	19.1	27.9	45.3	49.8
63	75	80 · 100 150	3" · 4" 6"	63 80	30	1.20	1.34	1.52	2.2	3.4	5.1	7.5	11.9	18.7	29.6	43.6	67.3	72.4
100	120					1.51	1.80	2.2	3.5	5.7	9.3	14.7	23.5	37.9	58.8	78.2	104.4	110.1
160	190	100 · 150 200	4" · 6" 8"	100	30	3.4	4.4	5.4	8.1	11.4	16.9	28.7	47.7	72.1	97.4	124.2	165.7	173.9
250	290			125		5.4	7.6	9.9	14.9	19.8	26.9	38.3	55.9	89.0	153.4	212.5	293.5	312.3
360	420	150 · 200	6" · 8"	150	60	7.0	8.3	10.4	16.1	24.1	35.4	51.5	81.8	140.4	218.4	288.8	381.9	399.2
630	735	200	8"	200	60	12.2	17.2	22.6	37.3	71.8	131.5	222.7	327.6	419.4	498.1	561.3	625.6	636.2

Table 2.2 · Flow coefficients K_v for Type 3251 Globe Valve and Type 3256 Angle Valve without flow divider and with linear characteristic

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K _v													
K _{vs}	C _v	mm	in			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
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	0.113
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	0.19
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
0.4	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	0.510
0.63	0.75					0.013	0.039	0.069	0.136	0.205	0.344	0.414	0.483	0.553	0.622	0.692	0.762	0.831	
1	1.2			12		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	1.31
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	2.1
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
4	5	15 · 25 · 40 50 · 80	½" · 1" · 1½" " · 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	5.3
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
10	12			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	13.2
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
25	30	40 · 50 80 · 100	1½" · 2" 3" · 4"	38	15	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
40	47					50 · 80 · 100 0	2" · 3" · 4"	50	30	0.66	1.49	3.2	7.8	12.1	16.5	20.8	25.1	29.4	33.8
63	75	80 · 100 150	3" · 4" 6"	63 80	30	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
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
160	190	100 · 150 200	4" · 6" 8"	100 150	30	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	177.6
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	420	150 · 200	6" · 8"	125 150	60	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	375.5
630	735	200	8"	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	676.0

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

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Kv													
Kvs	Cv	mm	in			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
1.45	1.7	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	3.9
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	4.4
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	1.65	2.6	4.3	6.4	8.2
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	10.5
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	9.4	10.7	11.2
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	9.8	13.5	16.5	18.7	20.1
22	26	40 · 50 80 · 100	1½" · 2" 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	26.2
36	42	50 · 80 · 100	2" · 3" · 4"	50	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	45.1
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	64.8
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	94.9
144	170	100 · 150 200	4" · 6" 8"	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	147.3
225	265	150 · 200	6" · 8"	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	235.3
320	375					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	356.5
560	650	200	8"	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	591.7

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

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K _v														
K _{vS}	C _v	mm	in			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %	
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	2.1	
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	3.2	
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	5.3	
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	8.3	
9	10.5	25 · 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	13.2	
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	21.0	
22	26	40 · 50 80 · 100	1½" · 2" · 3" 1½" · 2" · 3" · 4"	31	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	25.9	
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	47.0	
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	70.4	
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	104.2	
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	164.1	
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	264.7	
320	375	150 · 200	6" · 8"	150	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	345.5	
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	628.6	

Table 2.5 · Flow coefficients K_v for Type 3251 Globe Valve and Type 3256 Angle Valve with flow divider St III and with equal percentage characteristic

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K _v													
K _{vS}	C _v	mm	in			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
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	8.2
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	3.2	4.7	6.7	8.7	10.5
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	11.2
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	20.1
20	23				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	26.2
30	35	80 · 100	3" · 4"	50	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	45.1
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	64.8
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	88.5
120	140				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	123.3
190	220	150 · 200	6" · 8"	100	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	195.3
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	308.1

Table 2.6 · Flow coefficients K_v for Type 3251 Globe Valve and Type 3256 Angle Valve with flow divider St III and with linear characteristic

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K _v													
K _{vS}	C _v	mm	in			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
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	5.3
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	8.3
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	13.2
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	21.0
20	23				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	25.9
30	35	80 · 100	3" · 4"	50	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	47.0
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	70.4
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	92.7
120	140				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	136.2
190	220	150 · 200	6" · 8"	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	219.7
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	286.8

Table 3.1 · Flow coefficients K_V for Type 3254 Globe Valve without flow divider and with equal percentage characteristic

Coefficients		Nominal size		Seat \varnothing [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K_V													
K_V s	C_V	mm	in			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
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	72.4
100	120	80 · 100 · 150 200 · 250	3" · 4" · 6" 8" · 10"	80	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	110.1
160	190	100 · 150 200 · 300	4" · 6" 8" · 12"	100	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	173.9
250	290	150 · 200 250 · 300	6" · 8" 10" · 12"	125	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	312.3
360	420	150 · 200 250 · 400	6" · 8" 10" · 16"	150	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	399.2
630	735	200 · 250 300 · 400	8" · 10" 12" · 16"	200	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	636.2
1000	1150	250 · 300 400	10" · 12" 16"	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	1215.6
1500	1730	300 · 400	12" · 16"	300	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	1738.4
2000	2300	400 · 500	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	2188.2
2500	2900			400		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	2758.9
4000	–	500	–	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	4254.7

Table 3.2 · Flow coefficients K_v for Type 3254 Globe Valve without flow divider and with linear characteristic

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K _v													
						mm	in	0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
K _v s	C _v	80 · 100 · 150	3" · 4" · 6"	63	30	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
				80 · 100 · 120	3" · 4" · 6" · 8" · 10"	80	30	1.18	2.3	6.3	17.3	28.3	39.2	50.1	61.0	72.0	82.9	93.8	104.8
160	190	100 · 150 · 200 · 250 · 300	4" · 6" · 8" · 10" · 12"	100	30	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	177.6
				250 · 300	6" · 8" · 10" · 12"	125	60	5.4	9.0	19.6	46.4	75.0	103.5	132.1	160.7	189.3	217.8	246.4	275.0
360	420	150 · 200 · 250 · 300 · 400	6" · 8" · 10" · 12" · 16"	150	60	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	375.5
				300 · 400	8" · 10" · 12" · 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
1000	1150	250 · 300 · 400	10" · 12" · 16"	250	120	21.5	35.3	77.3	182.8	295.4	407.9	520.5	633.1	745.7	858.2	970.8	1083.4	1196.0	1308.5
				400	120	25.8	74.2	148.8	308.7	465.6	622.5	779.4	936.3	1093.2	1250.2	1407.1	1564.0	1679.2	1731.4
1500	1730	300 · 400	12" · 16"	300	120	38.2	62.7	137.3	324.7	524.7	724.7	924.8	1124.8	1324.8	1524.8	1724.8	1924.8	2124.8	2324.8
				400 · 500	400	39.8	114.3	229.4	476.0	718.0	959.9	1201.9	1443.8	1685.7	1927.7	2169.6	2411.6	2589.6	2663.6
2000	2300	400 · 500	16" · 20"	400	120	64.0	183.8	368.7	765.1	1153.9	1542.8	1931.6	2320.5	2709.4	3098.2	3487.1	3875.9	4151.2	4284.2
				500	500	64.0	183.8	368.7	765.1	1153.9	1542.8	1931.6	2320.5	2709.4	3098.2	3487.1	3875.9	4151.2	4284.2

Table 3.3 · Flow coefficients K_V for Type 3254 Globe Valve with flow divider S11 and with equal percentage characteristic

Coefficients	Nominal size		Seat \varnothing [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K_V													
	mm	in			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
57	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	64.8
90	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	94.9
144	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	147.3
225	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	235.3
320	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	356.5
560	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	591.7
900	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	1118.4
1350	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	1599.3
1800	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	2013.1
2250			400	120	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	2538.2
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	3914.4

Table 3.4 · Flow coefficients K_v for Type 3254 Globe Valve with flow divider St I and with linear characteristic

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K _v													
						mm	in	0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
K _v s	C _v	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	70.4
				80 · 100 · 150	3" · 4" · 6" · 8" · 10"	80	30	0.83	4.2	8.3	17.2	25.9	34.6	43.3	52.0	60.7	69.4	78.1	86.8
144	170	100 · 150 · 200 · 250 · 300	4" · 6" · 8" · 10" · 12"	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	164.1
				125	60	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	264.7
320	375	150 · 200 · 250 · 300 · 400	6" · 8" · 10" · 12" · 16"	150	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	345.5
				200	60	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	628.6
900	1040	250 · 300 · 400	10" · 12" · 16"	250	120	19.6	32.2	70.4	166.5	269.0	371.5	474.1	576.6	679.1	781.7	884.2	986.7	1089.3	1191.8
				300	120	23.7	68.2	136.9	284.0	428.4	572.7	717.1	861.4	1005.8	1150.1	1294.5	1438.9	1544.9	1592.9
1800	2080	400 · 500	16" · 20"	350	120	35.1	57.7	126.3	298.8	482.8	666.8	850.8	1034.8	1218.8	1402.8	1586.8	1770.8	1954.8	2138.8
				400		36.6	105.2	211.0	437.9	660.5	883.1	1105.7	1328.3	1550.9	1773.5	1996.1	2218.7	2382.4	2450.5
3600	-	500	-	500	120	58.8	169.1	339.2	703.9	1061.6	1419.4	1777.1	2134.9	2492.6	2850.4	3208.1	3565.9	3819.1	3941.5

Table 3.5 · Flow coefficients K_V for Type 3254 Globe Valve with flow divider St III and with equal percentage characteristic

Coefficients K_V	C_V	Nominal size		Seat \varnothing [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K_V													
		mm	in			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
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	64.8
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	88.5
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	123.3
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	195.3
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	308.1
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	493.1
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	880.3
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	1269.0
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	1619.2
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	2069.2
3000	-	-	-	500	120	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	3212.3

Table 3.6 · Flow coefficients K_V for Type 3254 Globe Valve with flow divider St III and with linear characteristic

Coefficients K_V	C_V	Nominal size		Seat \varnothing [mm]	Rated travel [mm]	Travel in % and associated flow coefficient K_V													
		mm	in			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
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	70.4
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	92.7
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	136.2
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	219.7
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	286.8
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	510.3
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	916.0
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	1229.3
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	1720.4
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	2024.4
3000	-	-	-	500	120	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	3106.0



Table 4.1 · Flow coefficients C_v for Type 3241 Globe Valve without flow divider and with equal percentage characteristic

Coefficients		Nominal size		Seat \varnothing [mm]	Rated travel [mm]	Travel in % and associated flow coefficient C_v													
C_v	Kvs	in	mm			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
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	0.2266
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	0.1988	0.3087	0.4058
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	0.3168	0.3642	0.3838
0.5	0.4	1/2" · 3/4" 1" 1 1/2" · 2"	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	1.2717
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	1.3873
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	1.4682	1.5145
2	1.6	1 1/2" · 2"	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	4.1618
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	4.3006	4.9711
5	4					0.09	0.11	0.14	0.20	0.31	0.44	0.65	1.01	1.61	2.74	4.08	4.84	5.20	5.32
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	12.72
12	10					0.23	0.29	0.36	0.54	0.82	1.13	1.71	2.68	4.18	6.59	9.13	11.56	13.41	14.45
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	18.61	21.16	22.20
30	25					0.62	0.75	0.92	1.32	1.99	3.01	4.74	7.86	12.02	17.23	22.54	27.51	30.87	32.49
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	35.72	40.58	45.32	49.25	52.14
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	75.49
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	72.25	84.39	96.07
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	108.90
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	150.29
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	199.31
-	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	266.59
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	290.52	338.84	375.61
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	358.61
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	555.49
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	736.07
1150	1000	12"	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	1405.3
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	1737.0

Table 4.2 · Flow coefficients Cv for Type 3241 Globe Valve without flow divider and with linear characteristic

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Cv															
Cv	Kvs	in	mm			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %		
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	0.1399		
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	0.2243		
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	0.348		
0.5	0.4	½" · ¾" 1"	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	0.5908		
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	0.8763		
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	1.4335		
2	1.6	1½" · 2"	32 · 40 · 50	12	15	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	2.3815		
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	3.815			
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	5.55			
7.5	6.3	¾" · 1"	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	8.55		
12	10	1½" · 2"				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	14.22		
20	16	1½" · 2"				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	23.70		
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	33.06		
47	40	2" · 2½" · 3"				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	54.68		
70	60	2½" · 3"				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	87.17		
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	95.49		
95	80	3"				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	106.47		
120	100	4" · 6"				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	157.69		
190	160	-	100 · 125 150	80	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	205.55		
-	200					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	272.95		
290	250					8" · 10" 12"	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	371.21	
300	260	6"	200 · 250 300	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	386.47		
420	360	8" · 10" 12"				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	554.91		
735	630	12"				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	762.20		
1150	1000		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	1404.3					
1730	1500		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	1740.2					

Table 4.3 · Flow coefficients Cv for Type 3241 Globe Valve with flow divider St I and with equal percentage characteristic

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Cv													
Cv	Kvs	in	mm			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
1.7	1.45	½" · ¾" 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	4.05
2.6	2.2					0.03	0.03	0.05	0.09	0.16	0.27	0.40	0.62	0.95	1.41	2.07	3.12	4.28	5.09
4.2	3.6	1½" · 2" 2"	32 · 40 50	24	15	0.08	0.09	0.12	0.18	0.29	0.43	0.66	0.99	1.53	2.54	3.82	4.62	5.09	5.32
7	5.7					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	13.41
10.5	9	1½" · 2" 2"	32 · 40 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	16.30
17	14.5					0.31	0.43	0.55	0.81	1.24	1.87	2.66	3.93	5.78	9.02	13.41	17.69	20.81	22.77
26	22	1½" · 2" 2½" · 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	25.66	28.90	30.98	30.98
42	36	2" · 2½" · 3" 2½" · 3"	50 · 65 · 80 65 · 80	48	15	0.87	0.94	1.14	2.31	4.97	9.36	15.38	21.50	27.17	32.25	40.92	44.05	46.47	46.47
62	54	2½" · 3" 3"	65 · 80	63	15	2.20	2.66	3.12	4.28	6.94	13.29	21.85	31.21	39.08	46.71	53.18	59.31	63.24	65.32
67	57	4" · 6" 3"	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	83.24
85	72	3" 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	85.09
105	90	4" · 6" 3"	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	120.0
170	144	4" · 6" 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	173.18
-	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	234.57
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	345.55
275	234	6" 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	304.86
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	509.25
650	560	12" 12"	300	250 300	120	16.76	20.92	25.78	40.0	67.28	118.96	210.52	313.53	430.17	508.67	573.41	610.64	640.12	669.83
1040	900					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	1264.9
1560	1350	12"	300	300	120	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	1563.2

Table 4.4 · Flow coefficients Cv for Type 3241 Globe Valve with flow divider S1 and with linear characteristic

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Cv													
Cv	Kvs	in	mm			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
1.7	1.45	½" · ¾" 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	1.97	2.31	
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	3.82
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	5.32
7	5.7	1½" · 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	7.28	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	14.57
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	21.50
26	22	1½" · 2" 2½" · 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	25.09	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	51.45
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	74.57
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	85.20
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	130.29
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	178.61	
-	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	238.96
265	225					9.48	12.49	22.20	47.98	77.23	106.47	135.72	164.97	194.22	223.47	252.72	281.97	311.21	340.58
275	234	8" · 10" 12"	200 · 250 300	125	60	6.82	9.48	13.87	29.48	45.32	61.04	76.76	92.37	108.09	123.82	139.54	155.26	178.61	
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	491.79
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	718.15
1040	900	12"	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	1263.8	
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	1566.1

Table 5.1 · Flow coefficients Cv for Type 3251 Globe Valve and Type 3256 Angle Valve without flow divider and with equal percentage characteristic

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Cv													
Cv	Kvs	in	mm			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
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	0.1434	
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	0.3249
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	0.5295
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	1.2832
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	1.7457
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	2.0462
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	4.5087
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	5.0867
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	9.48
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	12.14
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	12.95
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	23.24
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	32.49	
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	57.57	
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	83.70	
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	127.28	
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	201.04	
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	361.04	
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	461.50	
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	735.49	

Table 5.2 · Flow coefficients C_v for Type 3251 Globe Valve and Type 3256 Angle Valve without flow divider and with linear characteristic

Coefficients		Nominal size		Seat \varnothing [mm]	Rated travel [mm]	Travel in % and associated flow coefficient C_v													
C_v	Kvs	in	mm			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
0.12	0.1				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	0.1306
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	0.2197
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	0.3283
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	0.5896
0.75	0.63					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	0.9607
1.2	1					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	1.5145
2	1.6				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	2.4277	
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	3.6994	
5	4	$\frac{1}{2}$ " · 1"	15 · 25 · 40	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	6.13
7.5	6.3	$\frac{1}{2}$ " · 1" · 1½"	15 · 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	9.60
12	10	1" · 1½"	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	15.26
20	16	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	24.28
30	25	1½" · 2"	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	33.76
47	40	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	59.08
75	63	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	94.45
120	100	8"	100 · 150 200	80	30	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	146.36
190	160	6" · 8"	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	205.32
290	250	8"	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	383.93
420	360			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	434.10
735	630			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	781.50

Table 5.3 · Flow coefficients Cv for Type 3251 Globe Valve and Type 3256 Angle Valve with flow divider St I and with equal percentage characteristic

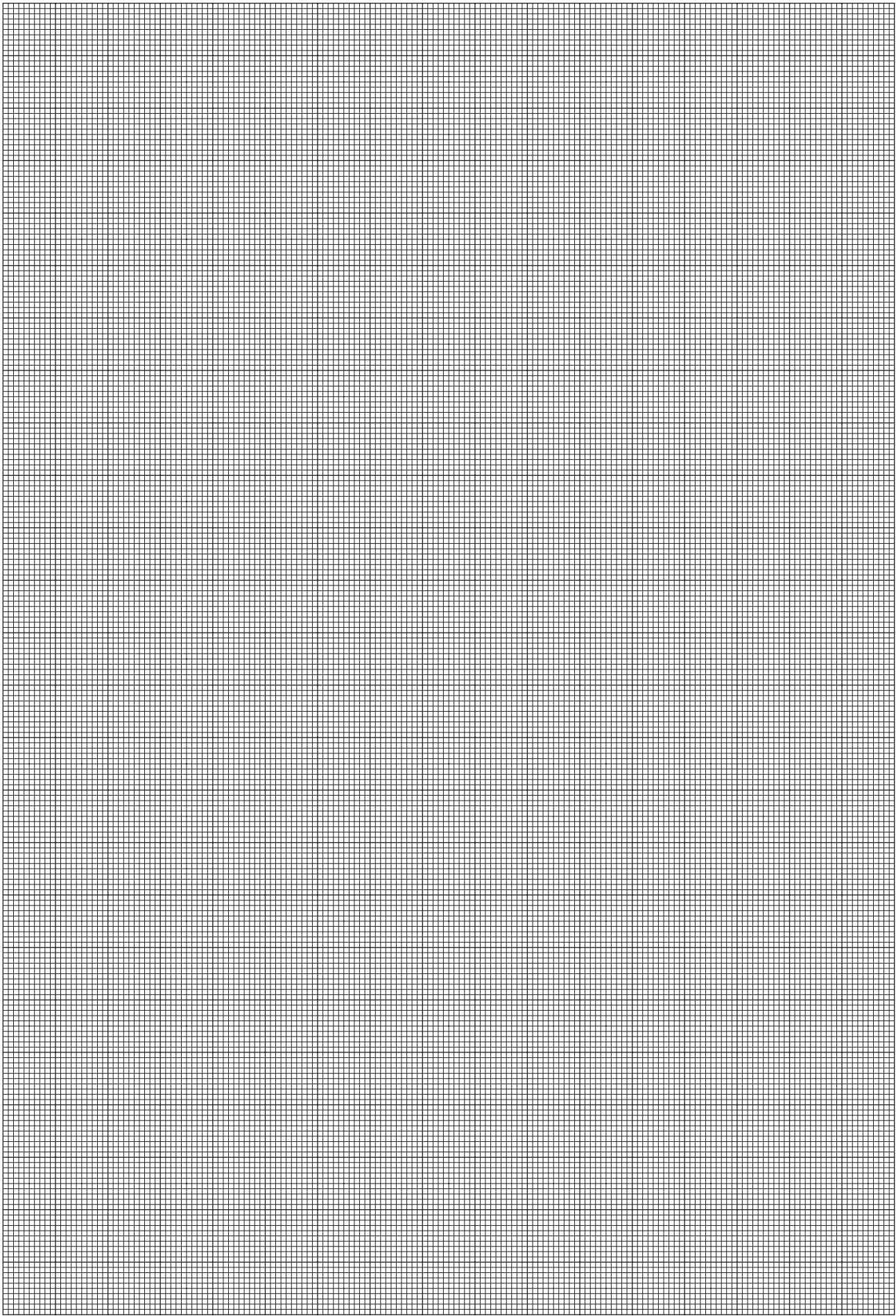
Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient Cv													
Cv	Kvs	in	mm			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
1.7	1.45	½" · 1" 1½"	15 · 25 40	12	15	0.04	0.05	0.06	0.09	0.13	0.20	0.27	0.39	0.55	0.83	1.26	2.02	3.35	4.51
2.6	2.2					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	5.09
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	9.48
7	5.7					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	12.14
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	12.95
17	14.5					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	23.24
26	22	1½" · 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	30.29
42	36					0.73	0.98	1.33	2.13	3.12	4.62	6.82	10.06	15.14	22.66	31.79	40.92	47.86	52.14
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	74.91
105	90					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	109.71
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	170.29
265	225					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	272.02
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	412.14
650	560					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	684.05

Table 5.4 · Flow coefficients C_v for Type 3251 Globe Valve and Type 3256 Angle Valve with flow divider St I and with linear characteristic

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient C _v													
C _v	K _{vS}	in	mm			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
1.7	1.45	1/2" · 1" 1 1/2"	15 · 25	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	2.43
2.6	2.2		40			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	3.70
4.2	3.6	1/2" · 1" 1 1/2" · 3"	15 · 25	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	6.13
7	5.7		40 · 80			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	9.60
10.5	9	1" · 1 1/2" 2" · 3"	25 · 40	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	15.26
17	14.5		50 · 80			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	24.28
26	22	1 1/2" · 2" 3" · 4"	40 · 50	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	29.94
42	36		80 · 100			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	54.34
67	57	2" · 3" 4"	50 · 80	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	81.39
105	90		100			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	120.46
170	144	4" · 6" 8"	100 · 150	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	189.71
265	225		200			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	306.01
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	397.92	434.22
650	560		200			10.87	31.21	62.54	129.83	195.84	261.85	327.86	393.87	459.88	525.90	591.91	658.03	724.04	790.05

Table 6.3 · Flow coefficients C_v for Type 3254 Globe Valve with flow divider St I and with equal percentage characteristic

Coefficients		Nominal size		Seat Ø [mm]	Rated travel [mm]	Travel in % and associated flow coefficient C _v													
C _v	K _{vS}	in	mm			0 %	5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	110 %	120 %
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	74.91
105	90	3" · 4" 6" · 10"	80 · 100 150 · 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	109.71
170	144	4" · 6" 8" · 12"	100 · 150 200 · 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	170.29
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	272.02
375	320	6" · 8" 10" · 16"	150 · 200 250 · 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	412.14
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	684.05
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	1292.9
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	1848.9
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	2327.3
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	2934.3
–	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	4525.3



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