

# Cast Iron and Steel Commissioning Valves Coefficients

**Fig. M2000**

Nom Size	mm	50	65	80	100	125	150	200
Flow Kv		71.91	155.9	217.3	380.2	576.6	830.8	1412
Headloss Factor		0.45	0.4	0.4	0.35	0.35	0.35	0.35
Kvs		48.24	98.58	137.4	224.9	341.1	491.5	835.4

  

Nom Size	mm	250	300	350	400	450	500	600
Flow Kv		2116	3073	3810	4968	6087	7958	11621
Headloss Factor		0.35	0.35	0.35	0.35	0.35	0.35	0.35
Kvs		1252	1818	2254	2939	3601	4708	6875

**Fig. M3000**

Nom Size	mm	50	65	80	100	125	150	200	250	300
Flow Kv		-	155.9	217.3	380.2	576.6	830.8	1412	2116	3073
Headloss Factor		-	0.4	0.4	0.35	0.35	0.35	0.35	0.35	0.35
Kvs		-	98.58	137.4	224.9	341.1	491.5	835.4	1252	1818

**Fig. MH733**

Nom Size	mm	50	65	80	100	125	150	200	250	300
Flow Kv (fully open)		-	85	111	146	250	380	600	1211	1521

**Fig. MH737**

Nom Size	mm	50	65	80	100	125	150	200	250	300
Flow Kv (fully open)		-	85	111	146	250	380	600	1211	1521

**Fig. 5953G**

Nom Size	mm	50	65	80	100	125	150	200	250	300
Headloss Factor		0.45	0.4	0.4	0.35	0.35	0.35	0.35	0.35	0.35
Kvs		48.24	98.58	137.4	224.9	341.1	491.5	835.4	1252	1818

**Fig. 5973G**

Nom Size	mm	50	65	80	100	125	150	200	250	300
Headloss Factor		0.45	0.4	0.4	0.35	0.35	0.35	0.35	0.35	0.35
Kvs		48.24	98.58	137.4	224.9	341.1	491.5	835.4	1252	1818

**Fig. 4983G PN25**

Nom Size	mm	50	65	80	100	125	150	200	250	300
Headloss Factor		1.86	0.95	0.50	0.29	0.37	0.43	0.31	0.56	0.33
Kvs		85	204	370	820	982	1353	2923	3374	6350

# Bronze Commissioning Valves Coefficients

## Headloss Factor %

The headloss across a metering station is less than the differential pressure (cP) signal indicated at the pressure tappings as shown on the metering station flow charts. The value of headloss for the metering station is shown as a percentage of the signal in the tables below.

The headloss of the DRV is obtained from the graph at the fully open position at the particular design flow rate. The total headloss of the metering station and DRV (commissioning set), when directly coupled or independently located, is the summation of the two separate values.

Fig.1000 / Fig.1000S

Nom Size	mm	15	22	28	32	40	50
Flow Kv		2.244	5.4	9.63	21.68	34.38	71.1
Headloss Factor		0.75	0.6	0.6	0.5	0.45	0.45
Kvs		1.943	4.181	7.46	15.33	23.06	47.7

\*Fig.1000S refers to DN15 only.

Fig. 1000C

Nom Size	mm	15
Flow Kv		2.354
Headloss Factor		0.75
Kvs		2.039

Fig. 1000M / 1000SM

Nom Size	mm	15
Flow Kv		1.101
Headloss Factor		0.83
Kvs		1.003

Fig. 1000L / 1000SLF

Nom Size	mm	15
Flow Kv		0.533
Headloss Factor		0.9
Kvs		0.506

Fig. 1000MC

Nom Size	mm	15
Flow Kv		1.129
Headloss Factor		0.83
Kvs		1.029

Fig. 1000LC

Nom Size	mm	15
Flow Kv		0.539
Headloss Factor		0.9
Kvs		0.511

Fig. 1432, 1432L, 1432C, 1432LC

Nom Size	in	1/2L	1/2	3/4	1	1 1/4	1 1/2	2
1432 Flow Kv (fully open)		2.26	2.14	3.6	6.37	12.3	21.3	31.3
1432L Flow Kv		-	2.26	-	-	-	-	-
1432C Flow Kv		-	2.14	3.6	-	-	-	-
1432LC Flow Kv		-	2.26	-	-	-	-	-

Fig. 2432, 2432LM, 2432LL

Nom Size	in	1/2	3/4	1	1 1/4	1 1/2	2
2432 Flow Kv		1.549	2.995	5.31	10.7	18.11	28.65
2432LM Flow Kv		0.99	-	-	-	-	-
2432LL Flow Kv		0.519	-	-	-	-	-

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## Bronze Commissioning Valves Coefficients

**Fig. 1732, 1732M, 1732L, 1732C, 1732MC, 1732LC**

Nom Size	in	1/2	3/4	1	1 1/4	1 1/2	2
1732 Flow Kv		1.87	3.14	5.59	10.8	18.1	29.1
1732 Kvs		1.943	4.181	7.46	15.33	23.06	47.7
1732M Flow Kv		1.06	-	-	-	-	-
1732M Kvs		1.003	-	-	-	-	-
1732L Flow Kv		0.57	-	-	-	-	-
1732L Kvs		0.506	-	-	-	-	-
1732C Flow Kv		1.87	3.14	-	-	-	-
1732C Kvs		2.037	4.457	-	-	-	-
1732MC Flow Kv		1.06	-	-	-	-	-
1732MC Kvs		1.029	-	-	-	-	-
1732LC Flow Kv		0.57	-	-	-	-	-
1732LC Kvs		0.511	-	-	-	-	-

**Fig. 1200DR**

Nom Size	mm	15	20	25	35	40	50
Flow Kv		4.74	9.96	18.46	26.71	42.15	70.95