COOPER CAMERON VALVES

Calculated Flow Coefficient, Cv
For Full Opening Type 28 and 30 Cameron Ball Valves in Full Open position (q=0)

Valve Size	150 lb. ANSI		300 lb. ANSI		400 lb. ANSI		600 lb. ANSI	
	Flange	Welded	Flange	Welded	Flange	Welded	Flange	Welded
2	511	467	467	467	-	-	406	406
3	1380	1167	1167	1167	-	-	1043	1043
4	2580	2235	2235	2235	1940	1940	1890	1890
6	5450	5400	5400	5400	4870	4870	4580	4580
8	10660	10000	11160	10000	9380	10000	8900	10000
10	17720	17300	17170	17300	15770	16850	14600	16850
12	26700	26150	25900	26150	23850	25600	22800	25600
14	32700	33600	31000	33600	29800	32200	28700	32200
16	44400	46800	42300	46800	40800	44700	38900	44700
18	58200	61800	56400	61800	54600	58500	51900	58500
20	75500	80000	72600	80000	70200	74500	66000	74500
22	91700	98600	88600	98600	86600	91400	81500	91400
24	113000	119500	109200	119500	105000	110500	98600	110500
26	131000	131700	125500	131700	122400	131700	116400	131700
28	152800	156000	147000	156000	144200	156000	137000	156000
30	180700	184400	174000	184400	166600	184400	160100	184400
32	205000	209000	194700	209000	187000	209000	180300	209000
34	232900	240300	221700	240300	212000	240300	203500	240300
36	263300	271300	247300	271300	237000	271300	225200	271300
40	327000	334400	311300	334400	297700	334400	287100	334400
42	347300	371300	347300	371300	330300	371300	312300	371300
48	486800	481000	464700	481000	445300	481000	440800	481000
56	710200	699300	685400	699300	660000	699300	648300	699300

Valve Size	900 lb.ANSI		1500 lb. ANSI		2500 lb. ANSI	
	Flange	Welded	Flange	Welded	Flange	Welded
2	362	362	362	362	328	328
3	1005	1005	907	907	820	820
4	1825	1825	1670	1670	1500	1500
6	4380	4380	4080	4080	3580	3580
8	8420	9750	7930	9750	7140	8560
10	14140	15800	13040	15800	11480	14140
12	21200	23650	19550	23650	17500	21800
14	26700	30100	24150	30100	-	-
16	36500	39800	33000	39800	-	-

The flow coefficient is defined as the quantity of water in gallons per minute that a flow restriction will pass when the pressure drop through the restriction is 1 psi.
Values for Cv for fully opened valves were extrapolated from test results for representative sizes of ball valves

This data is for general information only. Design changes do become nesessary from time to time and these could result in variations of the existing data. We therefore recommend that you check with your local Cooper Cameron Valves sales office for any details which are critical to your operations.

Calculated Flow Coefficient, Cv
For Reduced Opening Type 28 and 30 Cameron Ball Valves in Full Open position (q=0)

Valve Size	150 lb. ANSI		300 lb. ANSI		400 lb. ANSI		600 lb. ANSI	
	Flange	Welded	Flange	Welded	Flange	Welded	Flange	Welded
3x2	186	213	196	213	-	-	179	206
4x3	556	625	537	625	602	596	528	590
6x4	799	769	762	768	749	885	745	870
8x6	1980	1990	1990	1990	2250	2280	2230	2280
10x8	4120	4160	4120	4160	4100	4640	4180	4630
12x10	7200	7290	7300	7280	7170	8020	7510	8050
14x12	13600	13550	13810	13570	13900	15750	14400	15750
16x14	14750	14620	15000	14600	14620	16100	14530	16030
18x16	20750	20500	20800	20500	21250	22200	22200	22200
20x18	27800	28000	27900	28000	28700	29800	29900	29800
22x20	36150	36200	35900	35900	36800	37900	38000	37900
24x22	46000	46000	45500	46000	48500	47800	51900	47800
26x24	57100	57200	56700	57200	56400	57200	55700	57200
28x26	65200	65500	64800	65500	64500	65500	63800	65500
30x28	77800	78000	77000	78000	76500	78000	75800	78000
32x30	90700	91100	89700	91100	88900	91100	88100	91100
34x32	104000	104700	102900	104700	101900	104700	103700	104700
36x34	122100	122900	120400	122900	119100	122900	117500	122900
40x36	112400	112700	111700	112700	111100	112700	110800	112700
42x40	171400	174100	171400	174100	169200	174100	166600	174100
48x42	136300	136200	135800	136200	135300	136200	135200	136200
56x48	168600	168500	168344	168500	167900	168500	167700	168500

Valve Size	900 lb.ANSI		1500 lb. ANSI		2500 lb. ANSI	
	Flange	Welded	Flange	Welded	Flange	Welded
3x2	188	203	173	195	224	186
4x3	577	584	513	558	577	532
6x4	758	860	727	855	790	828
8x6	2075	2265	2265	2265	-	2160
10x8	4610	4580	4570	4580	-	-
12x10	7940	7020	9230	7020	-	-
14x12	12807	13437	13291	-	-	-
16x14	14563	-	14173	-	-	-

The flow coefficient is defined as the quantity of water in gallons per minute that a flow restriction will pass when the pressure drop through the restriction is 1 psi.
Values for Cv for fully opened valves were extrapolated from test results for representative sizes of ball valves

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Calculated Flow Coefficient, Cv
For Venturi Opening Type 28 and 30 Cameron Ball Valves in Full Open position (q=0)

Valve Size	150 lb. ANSI		300 lb. ANSI		400 lb. ANSI		600 lb. ANSI	
	Flange	Welded	Flange	Welded	Flange	Welded	Flange	Welded
10x6	1450	-	-	-	-	-	-	1460
12x8	2950	2940	3060	2940	2940	2990	2990	2990
14x10	5750	5750	5710	5750	5680	6000	6010	6010
16x12	9080	9080	7770	7770	-	9210	9000	9220
18x14	10370	10370	10400	10400	10350	10550	10930	10550
20x16	14950	14950	14950	14950	14950	15100	14800	15750
22x18	20300	20300	20300	20300	20550	21200	21200	21200
24x20	26800	26800	26800	26800	27100	28000	27900	27900
26x22	35600	35600	35500	35600	35400	35600	35300	35600
28x24	44400	44500	44300	44500	44200	44500	44000	44500
30x26	51600	51700	51500	51700	51300	51700	51200	51700
32x28	63900	64000	63500	64000	63200	64000	63000	64000
34x30	75700	75900	75300	75900	74900	75900	74500	75900
36x32	87700	88000	87000	88000	86600	88000	85906	88000
40x34	85200	85300	84900	85300	84600	85300	84200	85300
42x36	96700	97000	96700	97000	96300	97000	95800	97000
48x40	108700	108700	108500	108700	108200	108700	108100	108700
56x42	88800	88800	88800	88800	88700	88800	88700	88800

Valve Size	900 lb.ANSI		1500 lb. ANSI		2500 lb. ANSI	
	Flange	Welded	Flange	Welded	Flange	Welded
10x6	-	-	-	-	-	-
12x8	2970	3120	3100	3120	-	-
14x10	-	5862	-	-	-	-
16x12	9162	9235	9049	9235	-	-

The flow coefficient is defined as the quantity of water in gallons per minute that a flow restriction will pass when the pressure drop through the restriction is 1 psi.
Values for Cv for fully opened valves were extrapolated from test results for representative sizes of ball valves

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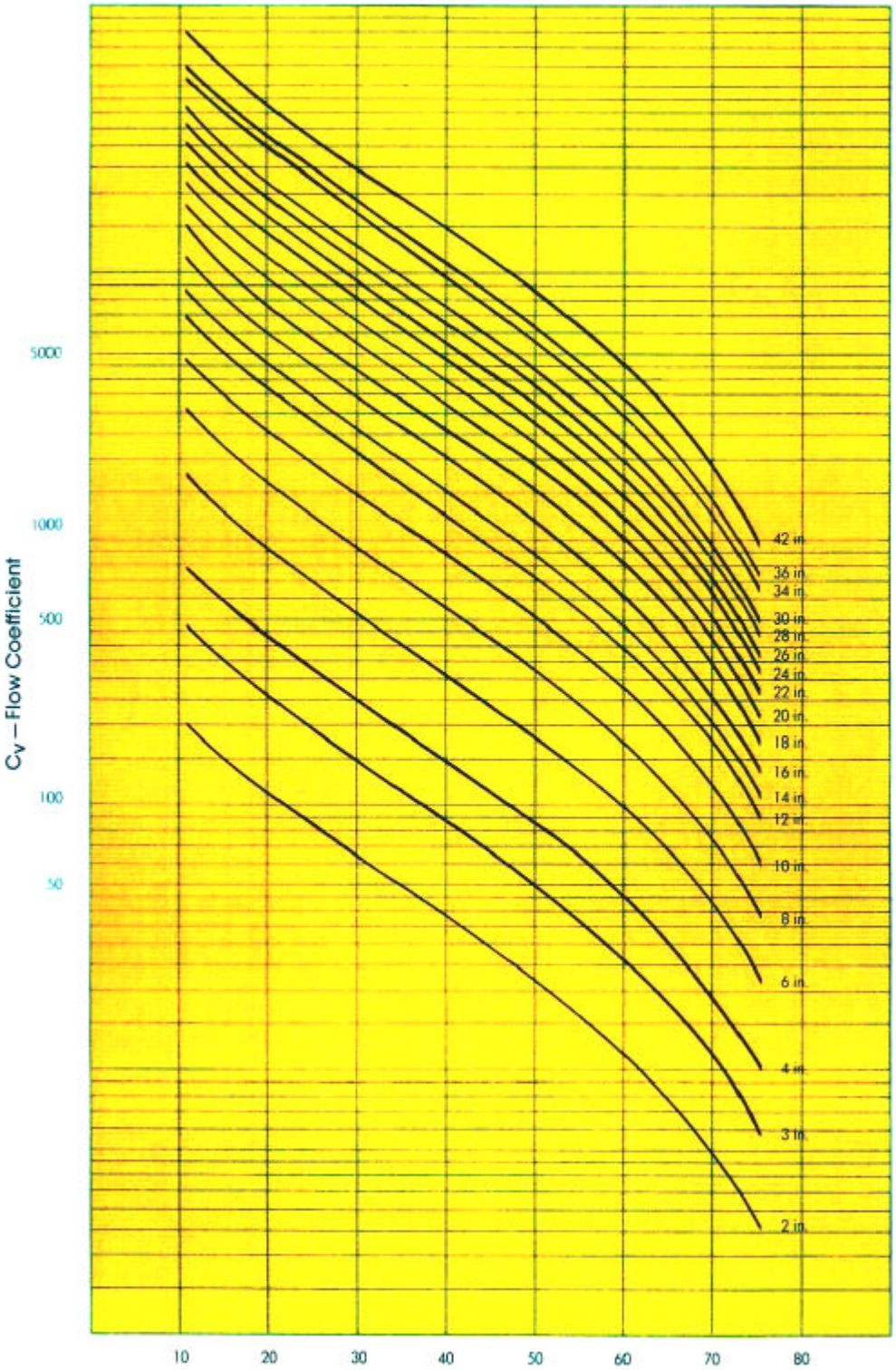
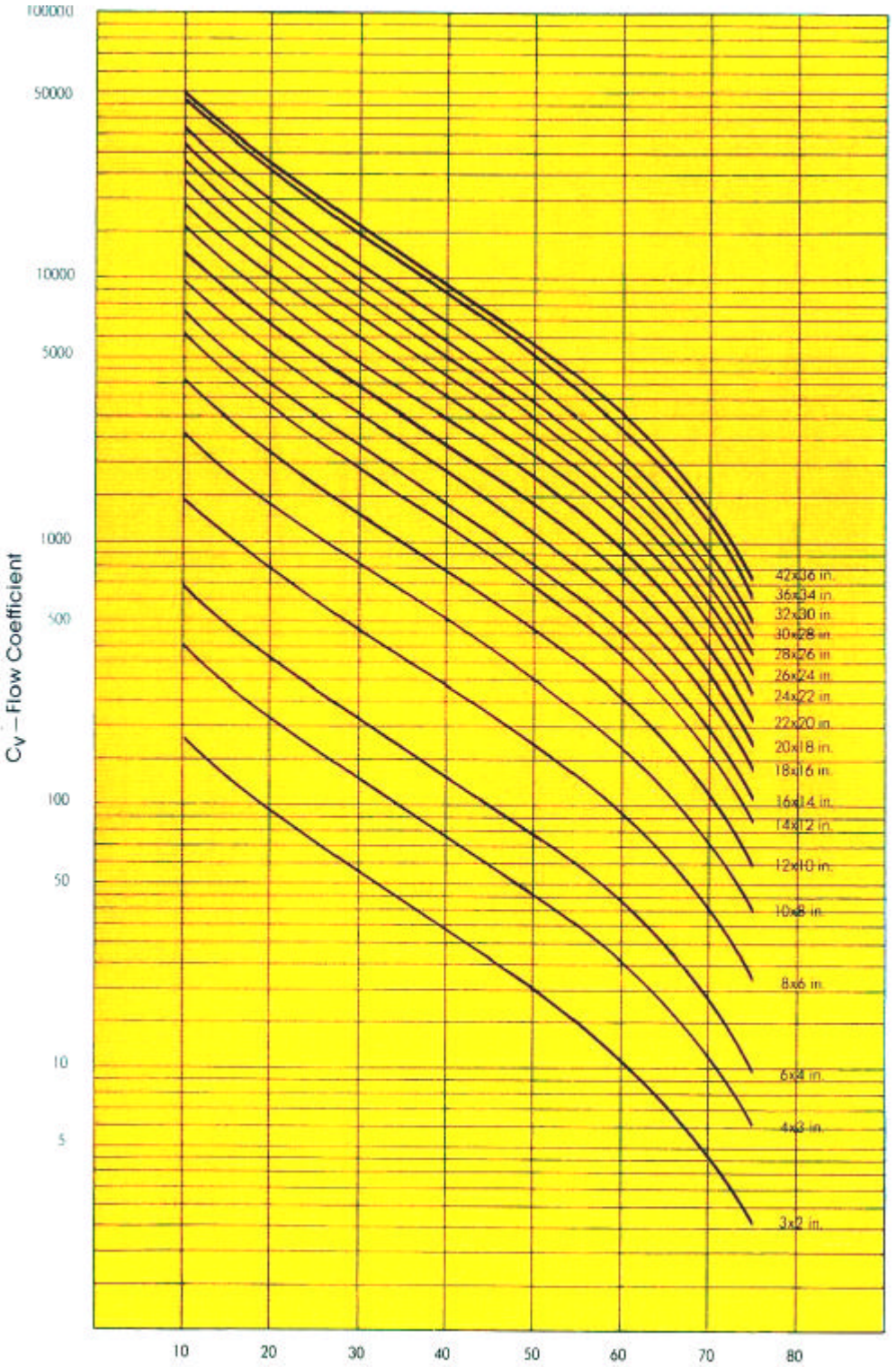
Flow Coefficient, Cv, versus Closure Angle, q, for Full Opening Cameron Ball Valves



θ° - Valve Position, Degrees of Ball Rotation (0° = full open)

Note : Data presented in these curves substantiated by actual tests of Cameron Ball Valves

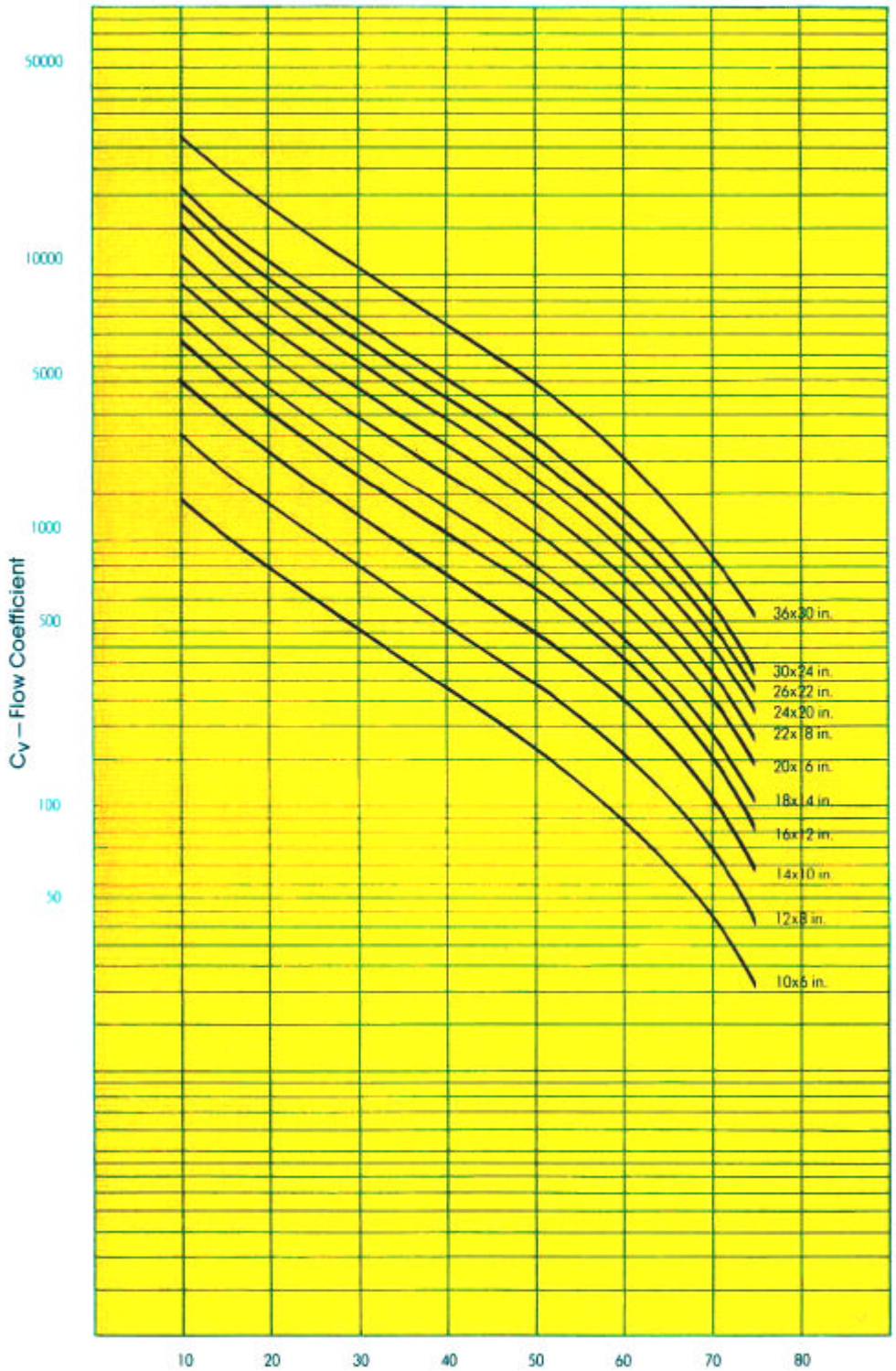
Flow Coefficient, Cv, versus Closure Angle, q, for Reduced Opening Cameron Ball Valves



θ° - Valve Position, Degrees of Ball Rotation (0° = full open)

Note : Data presented in these curves substantiated by actual tests of Cameron Ball Valves

Flow Coefficient, Cv, versus Closure Angle, q, for Ventury Opening Cameron Ball Valves



θ° - Valve Position, Degrees of Ball Rotation (0° = full open)

Note : Data presented in these curves substantiated by actual tests of Cameron Ball Valves