



## Cv Coefficient and Trunnion Ball Valve Torque Chart

NPS	150Lb		300Lb		600Lb		900Lb		1500Lb		2500Lb	
	N-M	Cv	N-M	Cv	N-M	Cv	N-M	Cv	N-M	Cv	N-M	Cv
1 1/2	30	308	60	308	75	308	95	165				
2 x 1 1/2	30	140	60	140	75	135	95	125				
2	42	500	80	420	115	350	150	320	468	320	589	285
3 x 2	42	220	80	210	115	190	150	185	468	180	589	170
3	140	1390	220	1050	334	1000	440	910	810	820	1580	825
4 x 3	140	630	220	600	334	560	440	505	810	500	1580	520
4	220	2550	360	2000	460	1850	830	1760	1500	1610	3964	1510
6 x 4	220	925	360	910	460	800	830	730	1500	730	3964	750
6	380	5249	680	5186	1000	4400	1880	4300	3750	4080	5500	3590
8 x 6	380	2500	680	2498	1000	2150	1880	2010	3750	2005	5500	2050
8	640	10750	1180	10262	2000	8450	3600	8400	5500	7980	11785	7160
10 x 8	640	5000	1180	4990	2000	4500	3600	4160	5500	4150	11785	3970
10	1200	17775	2120	17220	3580	14250	5280	14160	7560	13020	13200	11580
12 x 10	1200	8400	2120	8390	3580	8000	5280	7300	7560	7280	13200	6850
12	1655	26750	2490	25950	5890	22790	7380	21230	9800	19610	14692	17700
14 x 12	1655	14080	2490	14040	5890	13990	7380	13920				
14	2795	32600	4215	30900	6520	28600	8825	26600				
16 x 14	2795	14780	4215	14750	6520	14720	8825	14690				
16	3755	44700	5640	42600	8685	39250	11780	36600				
18 x 16	3755	20840	5640	20820	8685	20750	11780	20700				
18	5090	58500	8240	56450	13850	52000	18450	50540				
20 x 18	5090	28100	8240	28000	13850	27850	18450	27840				
20	6405	76000	11020	72700	18490	70500	25960	69700				
24 x 20	6405	29000	11020	28850	18490	28750	25960	26950				
24	12290	113500	19390	109450	30880	99000	42370	86750				
26	15100	128630	22770	123050	35180	114050	47590	102940				
28	17150	151750	25490	146050	38980	136500	52470	121200				
30	18580	179300	27460	171700	41830	158900	56200	140093				
36 x 30	18580	123000	27460	121550	41830	118300	56200	103080				
32	19880	199750	29550	187700	45190	175000	60840	159420				
36	22989	258300	34172	243050	52267	226300	70361	226033				



## Floating ball valve open torque chart

### A. Full bore torque

Size \ PN	150LB	300LB	600LB
	Torque N-M	Torque N-M	Torque N-M
2	30	65	200
3	70	160	480
4	130	280	780
6	420	620	
8	720	960	
10	1500	1600	

### B.Reduced bore torque

Size \ PN	150LB	300LB	600LB
	Torque N-M	Torque N-M	Torque N-M
3	30	65	200
4	70	160	480
6	130	280	780
8	420	960	
10	720	1600	
12	1500	2800	

Remark:

- 1.The valve open torque data is under full load presure.
- 2.Nominal torque of driving device =valve open torque under full pressure head x1.5 time of safety factor.
- 3.The above data is detected under the condition of clean gas or liquid transmitter substance. The date detected will vary a little if two-phase transmitter substance is not clean.