



Ball Valve Torque Sizing Program

Seat Insert		Stem Material Class Designation			Notes
2	P304	1	F304L or F316L	1	FF1
3	M30004	2	F304 or F316	1	FF1 + 4 psi
4	M300	3	A304 or A316	1	Maximum FF1
5	T00	4	F416 or F2		

Line No.	Ball Type Floating (FF) or TM-DBB or TM-DB	Tag No.	Valve Size		Rated Rating Class	Shutoff Pressure PSIG	Shut Off Class	Dry Service No or Yes	Acting Style Top or Bottom	ISO 5210 Flange Size	Stem Dia	Stem Material	Torque for Actuator Selection, See The Downstream Pressures used for ESDV and SDV Service are shown below at the bottom of the page. This would allow 90% of rated requirements. The last 5% are special conditions which also can input into the table below.					Shut Off Class	Other Requirements			
			Body	Trim									In psi						FF Rating Class	FF Rating Class		
													RTD	ETD	ETC	RTC	ETC				FF Rating Class	MOP
1	TM-DBB	SDV-100	20	x	20	300	500	3	No	ANSI	F10	30	10,713	7,800	4,200	4,300	4,400	2,700	3,000	1	ANSI	
2	TM-DB	SDV-100	12	x	12	300	500	3	Yes	ANSI	F10	30	2,664	2,540	1,810	1,300	2,470	1,540	1,700	1	ANSI	
3	TM-DBB	SDV-101	12	x	12	300	500	3	No	ANSI	F10	30	3,004	2,217	1,200	1,440	1,470	1,010	1,700	1	ANSI	
4	TM-DB	SDV-101	16	x	16	300	1,020	3	No	ANSI	F10	30	25,200	9,410	3,000	3,100	3,210	1,000	1,400	1	ANSI	
5	TM-DBB	SDV-120	12	x	12	300	500	3	Yes	ANSI	F10	30	3,194	2,544	2,290	2,200	2,270	1,010	1,000	1	ANSI	
6	TM-DB	SDV-120	24	x	24	150	200	3	No	ANSI	F10	30	10,014	6,000	2,270	2,100	2,270	1,000	1,200	1	ANSI	
7	TM-DBB	SDV-120	16	x	16	300	1,020	3	No	ANSI	F10	30	25,200	9,410	4,000	4,300	4,000	3,000	3,000	1	ANSI	
8	TM-DB	SDV-120	16	x	16	300	400	3	No	ANSI	F10	30	3,000	3,000	600	600	2,200	600	600	1	ANSI	
9	TM-DBB	SDV-124	16	x	16	300	400	3	No	ANSI	F10	30	3,000	3,000	670	600	1,000	700	1,000	1	ANSI	
10	TM-DB	SDV-124	8	x	8	1000	1000	3	Yes	ANSI	F10	30	3,004	2,004	600	600	1,100	300	600	1	ANSI	
11	TM-DBB	SDV-125	8	x	8	300	600	3	No	ANSI	F10	30	14,321	2,800	1,370	1,400	1,710	1,000	1,000	1	ANSI	
12	TM-DB	SDV-125	8	x	8	600	1,020	3	No	ANSI	F10	30	3,000	2,220	1,000	600	1,100	600	600	1	ANSI	
13	TM-DBB	SDV-126	2	x	2	150	200	3	No	ANSI	F10	22	100	50	20	20	20	20	20	1	ANSI	
14	TM-DB	SDV-126	4	x	4	300	600	3	No	ANSI	F10	28	600	200	100	600	100	100	100	1	ANSI	
15	TM-DBB	SDV-127	16	x	16	300	1,000	3	No	ANSI	F10	30	17,370	3,400	1,000	1,100	1,000	1,000	4,000	1	ANSI	
16	TM-DB	SDV-127	24	x	24	300	1,020	3	No	ANSI	F10	140	113,000	20,000	14,000	14,000	11,000	1,000	11,000	1	ANSI	

Notes :

- 1 If no Maximum Operating Pressure (MOP) is used, the MOP will be assumed to be 90% of shutoff pressure.
- 2 Downstream pressures used for normal On/Off Service and ESDV/SDV Service to calculate torque values are as follows :

Downstream Pressure for	ESDV / SDV	On / off
RTD	40% of MOP	50% of MOP
ETD	40% of MOP	75% of MOP
ETC	70% of MOP	100% of MOP
RTC	50% of MOP	75% of MOP
ETC	20% of MOP	70% of MOP

Notes on differential pressures :

RTD and ETC torques are sized using Shut-off Pressure. The other 4 torque values are sized based on a MOP of 90% of shutoff pressure assumed here. To achieve efficient actuator selection, input the actual MOP provided in the datasheet. Similarly, if lower differential pressures are available for the remaining 3 torque figures, input them.

Many manufacturers used the same running torque regardless of differential pressure values, and that could cause the actuator to be undersized. The higher the differential pressure, the higher the resultant torque will be.

Breakaway Torque Calculation For Ball Valve

RJ Alexander



Breakaway Torque Calculation For Ball Valve:

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