



### Ball Valve Torque Sizing Program

Seat Insert		Stem Material Class Designation			Notes
2	P304	1	F304L or F316L	1	316
3	M316LN	2	F304 or F316	1	316 + 4 psi
4	M316	3	A304 or A316	1	304 or 316
5	T304	4	F304 or F316	1	304 or 316

Line No.	Ball Type Floating (FB) 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	ISO 5210 Flange	Stem Dia	Stem Material	Torque for Actuator Selection, See The Downstream Pressures used for ESDV and ESDV On/Off Service are shown below at the bottom of the page. This would allow 90% of rated requirements. The last 10% are special conditions which also can input into the table below.					Shut Off Class	Other Requirements				
			Body	Trim									RTD	RTD	ETD	ETC	RTD		ETC	Max Temp Input °C	MOP		
1	TM-DBB	SDV-100	20	x	20	300	500	0	No	ANSI	F10	30	10,713	7,000	4,200	4,300	4,400	1,700	0,000	1	ANSI		
2	TM-DB	ABV-100	12	x	12	300	500	0	Yes	ANSI	F10	30	2,004	1,340	1,010	1,000	1,010	1,140	1,700	1	ANSI		
3	TM-DBB	SDV-101	12	x	12	300	500	0	No	ANSI	F10	30	2,004	1,317	1,200	1,140	1,010	1,700	1	ANSI			
4	TM-DB	ABV-101	16	x	16	300	1,020	0	No	ANSI	F10	30	17,200	9,410	3,000	3,100	3,210	1,000	1,000	1	ANSI		
5	TM-DBB	SDV-102	12	x	12	300	500	0	Yes	ANSI	F10	30	2,004	1,340	1,200	1,200	1,210	1,010	1,000	1	ANSI		
6	TM-DB	ABV-102	24	x	24	150	200	0	No	ANSI	F10	30	10,014	5,000	1,210	1,100	1,210	1,000	1,210	1	ANSI		
7	TM-DBB	SDV-103	16	x	16	300	1,020	0	No	ANSI	F10	30	17,200	9,410	3,000	4,000	4,000	1,000	1,000	1	ANSI		
8	TM-DB	ABV-103	16	x	16	300	400	0	No	ANSI	F10	30	3,000	1,000	0	0	1,000	0	0	1	ANSI		
9	TM-DBB	SDV-104	16	x	16	300	400	0	No	ANSI	F10	30	3,000	1,000	0	0	1,000	100	1,000	1	ANSI		
10	TM-DB	ABV-104	8	x	8	1000	1000	0	Yes	ANSI	F10	30	2,004	1,004	0	0	1,100	0	0	1	ANSI		
11	TM-DBB	SDV-105	8	x	8	300	600	0	No	ANSI	F10	16	14,321	2,000	1,000	1,000	1,110	1,000	1,000	1	ANSI		
12	TM-DB	ABV-105	8	x	8	300	1,020	0	No	ANSI	F10	16	9,000	2,000	1,000	0	1,100	0	0	1	ANSI		
13	TM-DBB	SDV-106	2	x	2	150	200	0	No	ANSI	F07	22	100	0	0	0	0	0	0	1	ANSI		
14	TM-DB	ABV-106	4	x	4	300	600	0	No	ANSI	F10	20	600	200	100	0	0	10	100	1	ANSI		
15	TM-DBB	SDV-107	16	x	16	300	1,000	0	No	ANSI	F10	16	17,210	9,400	3,000	3,100	3,000	1,000	4,000	1	ANSI		
16	TM-DB	ABV-107	24	x	24	300	1,020	0	No	ANSI	F10	140	113,000	21,000	14,000	14,100	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 shut-off 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

**S Marginson**



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