

Operating torques of trunnion mounted ball valves

DN (FB)	DN (RB)	Torque (Nm)				
		0	10	16	25	40
125		80	170	220	300	-
150	200	120	260	370	530	800
200	250	140	430	600	850	1280
250	300	360	680	960	1380	2090
300	400	600	880	1240	1790	2690
350	400	780	1580	2180	3090	4610
400	450	960	1950	2740	3920	5900
450	500	4080	5760	6480	7080	9840
500	600	5160	7560	8520	9480	13200
600	700	7440	11880	13440	14880	19440
700	800	10320	13800	14520	19560	28560
800	900	13560	19080	20160	25680	37440
900	1000	17280	25440	27000	30120	42360
1000	1200	21960	33480	35520	40680	59520
1200		31560	42240	45840	61440	-
Pressure difference (bar)						

- 1) DN-size of the valve
- 2) Max. torque needed to open/close the valve
- 3) Max. pressure class of the valve available
- 4) Pressure difference across the valve Δp :

where

$$\Delta p = p_1 - p_2,$$

p_1 = pressure before the valve

p_2 = pressure after the valve