

NTC High Performance Ball Valves

Typical Valve Break Torque Figures

The "Break Torque" of a Ball Valve is the value of force required to move the Ball from either the fully open or closed position (Break Torque).

The most common way of presenting this information in Europe is in Newton Metres (Nm). The greater the force required, the higher the torque value becomes.

The figures given below are based on PTFE/TFM™ 1600 Seat Materials materials being used on clean, Cold Water at 10 bar/g differential pressure, for higher working pressures, please consult our sales department.

An additional value of 15% is required when fitting Reinforced materials. A "Safety Factor" of between 25% - 30% at least is recommended when sizing Actuators.

Fig / Size	0.25"	0.38"	0.5"	0.75"	1"	1.25"	1.5"	2"	2.5"	3"	4"	5"	6"
NTC KV-L20	4.5	4.5	5	6	10	13	19	29	45	72	110	-	-
NTC KV-L30	4.5	4.5	5	6	10	13	19	29	45	72	110	-	-
NTC KV-L31	4.5	4.5	5	6	10	13	19	29	45	72	110	-	-
NTC KV-L32	4.5	4.5	5	6	10	13	19	29	45	72	110	-	-
NTC KV-L80F*	6	6	6	7	12	15	22	33	-	-	-	-	-
NTC KV-L81F*	6	6	6	7	12	15	22	33	-	-	-	-	-
NTC KV-L82F*	6	6	6	7	12	15	22	33	-	-	-	-	-
NTC KV-L61	-	-	5	6	10	13	19	29	45	72	110	209	306
NTC KV-L61/E	-	-	-	-	-	-	-	29	45	72	110	-	-
NTC KV-L6N	-	-	5	6	10	13	19	29	45	72	110	209	306
NTC KV-062	-	-	5	6	10	13	19	29	45	72	110	209	306
NTC KV-L6K	-	-	5	6	10	13	19	29	45	72	110	209	306
NTC KV-L9C/B	-	-	6	8	14	-	22	32	50	75	115	-	-
NTC KV-L91/B	-	-	6	8	14	-	22	32	50	75	115	-	-
NTC KV-L50	6	6	6	9	12	15	22	33	-	-	-	-	-
NTC KV-L51	6	6	6	9	12	15	22	33	-	-	-	-	-

* Based TFM™ 1600 + 15% Carbon Filled standard factory fitted seat