



FIELD OF APPLICATION:

Fields of application are stated in the data sheet of each valve series.
 If the solids of the medium make up more than 10% the AVK knife gate valve is recommended.
 If the medium contains special substances, information of the chemical designation, concentration, and the temperature of the medium must be given on inquiry of the valves.

OPERATION:

To avoid a seizure of the internal parts, it is recommended to operate the valves with the following minimum intervals, which at the same time ensures a long durability:

- valves for water and gas: every year
- valves for sewage and industry: every third month

After operation the valve must be:

- fully open and the stem released from stress or
- closed with the closing torque stated in the table

The valve must not be exposed to low temperatures, causing the medium to freeze.

Valves to EN 1074-1 and 2 / EN 1171, Type A (DIN 3352 part 4) - for water

Valve dim. DN mm	Closing torque Nm	Free running torque Nm	Rupture torque Nm	Turns to open	New generation of gate valves including series 636			
					Closing torque Nm	Free running torque Nm	Rupture torque Nm	Turns to open
40	40	6	400	11	25	3	250	12
50	40	6	400	11	25	3	250	12
65	60	6	400	14	25	3	250	17
80	60	6	400	17	35	3	400	17
100	80	6	400	21	35	3	400	21
125	80	6	500	26	40	3	500	26
150	80	12	600	26	40	3	600	26
200	120/100 ⁵⁾	12	800	33/35 ⁵⁾	80	3	800	33
250	180	12	1000	37				
300	200	16	1200	44				
350	300	24	1400	59				
400	300	24	1600	59/50 ⁴⁾				
450	300 ¹⁾ /450 ²⁾ /500 ³⁾	25	1600	59 ¹⁾ /43 ²⁾ /39 ³⁾				
500	300 ¹⁾ /300 ²⁾ /500 ³⁾	25	1600	59 ¹⁾ /43 ²⁾ /43 ³⁾				
600	500 ²⁾ /700 ³⁾	25	1600	53 ¹⁾ /52 ²⁾ /53 ³⁾				
700	850	60	1700	60				
800	850	60	1700	70				
900	6 bar/10 bar /16 bar 800/800/1100	300	2500	85				
1000	800/800/1100	300	2500	85				

¹⁾ series 02 and 20

²⁾ series 06 and 26

³⁾ series 55

⁴⁾ series 36

⁵⁾ series 15

Valves to EN 1074-1 and 2
EN 1171, Type B (BS 5163)

Valve dim. DN mm	Closing torque Nm	Rupture torque Nm	Turns to open
40	90	500	4
50	90	550	5
65	90	625	7
80	120	700	8
100	135	800	9
125	155	925	12
150	180	1050	14
200	210	1300	18
250	210	1550	22
300	210	1800	26
350	300	2050	31
400	450	2300	35
450	500 ¹⁾	2550	39
500	500 ¹⁾	2800	43
600	700 ¹⁾	3300	53

¹⁾ series 55

Valves to EN 13774 / EN 12266
(DIN 3230-5) - for gas

Valve dim. DN mm	Closing torque Nm	Free running torque Nm	Rupture torque Nm	Turns to open
40	40	9	400	11
50	40	9	400	11
65	60	9	400	14
80	60	9	400	17
100	80	9	400	21
125	80	9	500	26
150	80	18	600	26
200	120	18	800	33
250	180	18	1000	37
300	200	18	1200	44
350	300	24	1400	59
400	300	24	1600	59/50 ³⁾
450	300 ^{1)/450²⁾}	25	1600	59 ^{1)/39²⁾}
500	300 ^{1)/450²⁾}	25	1600	59 ^{1)/43²⁾}
600	500 ²⁾	25	3200	53 ^{1)/52²⁾}

¹⁾ series 02

²⁾ series 06 and 46

³⁾ series 36

Service connection valves

Series 03 and 16 brass
Max. torques

Valve dim. DN mm	Closing torque Nm	Rupture torque Nm	Turns to open
25	35	200	7
32	35	200	9
40	35	200	11
50	35	200	14

Series 16 POM
Max. torques

Closing torque Nm	Rupture torque Opening Nm	Rupture torque Closing Nm	Turns to open
40	100	200	7
40	100	200	9
40	100	200	11
40	100	200	14