

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.

TORQUES AND NUMBER OF TURNS TO OPEN:

Valve dimension DN mm	Valves to EN 1074-1 and 2 / EN 1171, Type A (DIN 3352 part 4)					Valves to EN 1074-1 and 2 / EN 1171, Type B (BS 5163)		
	Closing torque Nm	Free running torque Nm		Rupture torque Nm	Turns to open	Closing torque Nm	Rupture torque Nm	Turns to open
		Water	Gas					
40	40	6	9	250	11	90	500	4
50	40	6	9	250	11	90	500	5
65	60	6	9	250	14	90	500	7
80	60	6	9	400	17	120	750	8
100	80	6	9	400	21	135	800	9
125	80	6	9	400	26	155	1000	12
150	80	12	18	500	26	180	1200	14
200	120	12	18	600	35	210	1600	18
250	180	12	18	750	37	210	1800	22
300	200	16	18	1050	44	210	1800	26
350	300	24	24	1050	51	300	2400	31
400	300	24	24	1050	59	450	2400	35
450	300* / 450**	25	25	1050	59*/39**	500***	2550	39
500	300* / 450**	25	25	1050	59*/43**	500***	2800	43
600	500**	25	25	3200	59*/52**	700***	3300	53

- * Series 02 and 20
- ** Series 06 and 26
- *** Series 55/30

Valve dimension DN	Service connection valves:				Actuated valves:				
	AVK series 03 and 16 (brass)			AVK series 16 (POM)				Electric actuator AVK series 15/42-72	
	Closing torque mm	Rupture torque Nm	Turns to open Nm	Closing torque Nm	Rupture torque opening direction Nm	Rupture torque closing direction Nm	Turns to open	Closing torque Nm	Turns to open
25	35	200	7	20	100	200	7	-	-
32	35	200	9	20	100	200	9	-	-
40	35	200	11	40	100	200	11	40	11
50	35	200	14	40	100	200	14	40	11
65	-	-	-	-	-	-	-	60	14
80	-	-	-	-	-	-	-	60	17
100	-	-	-	-	-	-	-	80	21
125	-	-	-	-	-	-	-	80	26
150	-	-	-	-	-	-	-	80	26
200	-	-	-	-	-	-	-	100	35
250	-	-	-	-	-	-	-	180	37
300	-	-	-	-	-	-	-	200	44
350	-	-	-	-	-	-	-	300	59
400	-	-	-	-	-	-	-	300	59
450	-	-	-	-	-	-	-	450** / 500***	40
500	-	-	-	-	-	-	-	450** / 500***	44
600	-	-	-	-	-	-	-	500** / 700***	53

- ** Series 06 and 26
- *** Series 55/30

