ISOLATING VALVES (ON-OFF)
Flow data of isolating valves is normally used within the calculations for pipework sizing and system pressure losses when the valve is in the fully open position. Many on/off isolating valves spend most of the time in the fully open position and therefore these valves should have high Kv figures to reduce pressure drops, increase plant efficiency and contribute to reducing energy costs. AVK has developed valves with a lot of attention being paid to achieving excellent flow characteristics.

PN16

Flow coefficient - Kv - at fully open valve position (16 bar execution)

DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750	800	900	1000	1100	1200	1400
NPS	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"	36"	40"	44"	48"	56"
Stainless steel disc		95	231	491	690	1450	1945	4095	6085	9570	13500	16350	12730	17000	37200	34470	38005	45540	58290	73510	92940	108400	
Aluminium bronze disc		95	231	491	690	1450	1945	4095	4260	6360	8975	10130	12730	17000	24810	34470	38005	45540	58290	73510	92940	108400	
Ductile iron disc		-	-	-	-	-	-	-	4260	6360	8975	10130	12730	17000	24810	34470	38005	45540	58290	73510	92940	108400	

CV = 1.16 x Kv.

PN25

Flow coefficient - Kv - at fully open valve position (25 bar execution)

DN	600	700	750	800	900	1000	1100	1200	1400
NPS	24"	28"	30"	32"	36"	40"	44"	48"	56"
Stainless steel disc	22249	29511	33790	38818	46739	60253	68542	89906	
Aluminium bronze disc	22249	29511	33790	38818	46739	60253	68542	89906	
Ductile iron disc	22249	29511	33790	38818	46739	60253	68542	89906	

CV = 1.16 x Kv.

REGULATING VALVES
The sizing of regulating valves requires detailed calculations for each case, taking into account e.g. noise and cavitation.
Please ask AVK for advice or ask for our special Technical data sheet for the selection and sizing of butterfly valves for control applications.