

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. Wouter Witzel has developed valves with a lot of attention being paid to achieving excellent flow characteristics.

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

Note: $C_v = 1.16 \times K_v$.

Flow coefficient - K_V - at fully open valve position (25 bar execution)				
DN	NPS	Stainless steel disc	Aluminium bronze disc	Ductile iron disc
600	24"	22249	22249	22249
700	28"	29511	29511	29511
750	30"	33790	33790	33790
800	32"	38818	38818	38818
900	36"	46739	46739	46739
1000	40"	60253	60253	60253
1100	44"	68542	68542	68542
1200	48"	89906	89906	89906
1400	56"			

Note: $C_v = 1.16 \times K_v$.

REGULATING VALVES

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