

FLOW RATE COEFFICIENTS AND FLOW FACTORS

Description	Fact.s	Shut Off 90°		Shut Off 180°		Flow Trough 180°		Divert Valve		Tank Outlet 90° Valve
		Value for PTFE diaphragm	Value for PTFE diaphragm	Value for PTFE diaphragm	Value for PTFE diaphragm	Value for PTFE diaphragm	Value for PTFE diaphragm	Value for PTFE diaphragm		
1/2"	Kv*	1,9	2,3	1,8	2,2	1,8	2,3	1,7	2,1	1,8
	Cv**	2,1	2,6	2,0	2,5	2,0	2,5	2,0	2,5	2,0
3/4"	Kv*	3,8	4,8	3,7	4,6	4,1	5,1	3,5	4,2	3,7
	Cv**	4,4	5,5	4,3	5,4	4,8	6,0	4,0	4,8	4,3
1"	Kv*	10,0	12,5	9,0	11,3	10,0	12,5	8,5	10,2	8,5
	Cv**	11,6	14,5	10,4	13,0	11,6	14,5	10,0	12,0	9,9
1"1/2	Kv*	20,0	24,0	19,0	22,8	20,0	24,0	18,0	21,6	19,0
	Cv**	23,2	27,8	22,0	26,4	23,2	27,8	20,8	25,0	22,0
2"	Kv*	33,5	40,2	34,5	41,4	36,0	43,2	33,0	39,6	32,0
	Cv**	38,9	46,7	40,0	48,0	41,8	50,2	38,3	46,0	37,1
2"1/2	Kv*	48,9	59,0	-	-	50,5	60,7	-	-	51,0
	Cv**	56,5	68,2	-	-	58,4	70,1	-	-	59,0
3"	Kv*	102,0	122,4	-	-	106,0	127,2	-	-	107,0
	Cv**	118,0	141,6	-	-	123,0	147,6	-	-	124,0
4"	Kv*	222	213	-	-	-	-	-	-	220
	Cv**	258	247	-	-	-	-	-	-	255

Note* Cv Factors = GPM @ D 1psig - Cv value = 1,16 Kv

Note** Kv Factors = m³/h @ D 1 bar

Kv and Cv value is calculated as follows:

Flow Factor	$Kv = \frac{Q}{\sqrt{\Delta P}}$	Q = flow rate - m³/h	ΔP = Pressure drop across valve (bar)
Flow Coefficient	$Cv = \frac{Q}{\sqrt{\Delta P}}$	Q = flow rate - GPM	ΔP = Pressure drop across valve (psi)