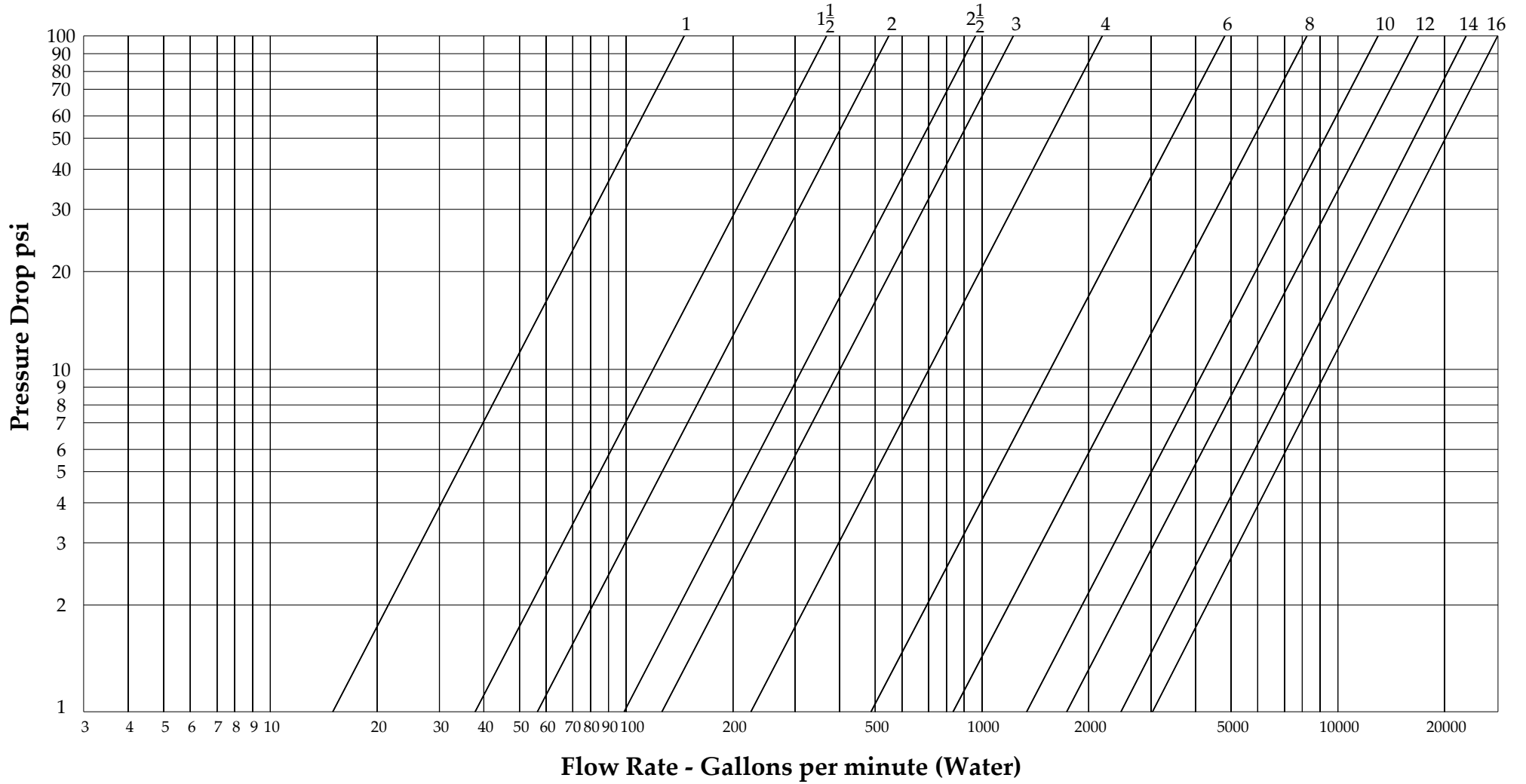


Pressure Drop Chart BTA-001 (Globe)

Valve Sizes



Flow Data – BTA-001 (Globe)													
Valve Size	Inches	1"	1.1/2"	2"	2.1/2"	3"	4"	6"	8"	10"	12"	14"	16"
	mm.	25	40	50	65	80	100	150	200	250	300	350	400
Max. Continuous Flow Rate GPM (Water)		55	125	208	300	460	800	1800	3100	4900	7000	8500	11000
Max. Intermittent Flow Rate GPM (Water)		80	160	260	370	570	1000	2300	3900	6000	8600	10500	14000
Cv Value (Globe)		15	40	55	90	125	220	460	840	1400	1700	2350	2950
F to F Distance –150 # (mm)		152	175	203	241	305	343	432	560	757	864	991	1060
Weight (kg.) – approx.		6	12	18	24	25	48	105	180	372	495	720	1020

- Maximum Continuous flow based on pipe line velocity of 20 ft. per second.
- Maximum intermittent flow based on pipe line velocity of 25 ft. per second.
- The valve Cv factor of a valve is the flow rate in USGPM at 60° F that will cause a one psi drop in pressure.
- The factors stated are based on a fully open valve.
- Cv factor can be used in the following equations to determine flow (Q) and Pressure Drop (ΔP)

$$Q \text{ (Flow)} = C_v \sqrt{\Delta P} .$$

$$\Delta P \text{ (Pressure Drop)} = (Q/C_v)^2$$