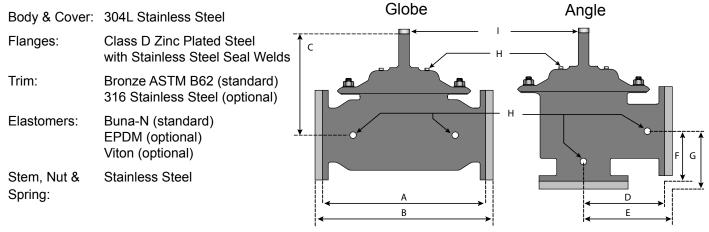


Stainless Series S100 (Globe)

S1100 (Angle)

01/05

Standard Materials



Dimensions

	А	В	С	D	Е	F	G	Н	I	
VALVE	GLOBE	GLOBE	COVER TO	ANGLE	ANGLE	ANGLE	ANGLE	PORT	PORT	SHIPPING
SIZE	150#	300#	CENTER	150#	300#	150 #	300#	SIZE	SIZE	WEIGHTS*
4	15	15-5/8	10-5/8	7-1/2	7-7/8	5	5-5/16	1/2	3/4	77
6	20	21	13-3/8	10	10-1/2	6	6-1/2	1/2	3/4	168
8	25-3/8	26-3/8	16	12-3/4	13-1/4	8	8-1/2	1	1	225
10	29-3/4	31-1/8	17-1/8	14-7/8	15-9/16	8-5/8	9-5/16	1	1-1/4	376
12	34	35-1/2	20-7/8	17	17-3/4	13-3/4	14-1/2	1	1-1/4	450
16	41-3/8	43-1/2	25	20-13/16	21-5/8	15-11/16	16-1/2	1	1-1/2	850

*Estimated in lbs.

Description

The Watts ACV Models S100 and S1100 are full port, single chamber basic valves that incorporate a one-piece disc and diaphragm assembly. This assembly is the only moving part within the valve allowing it to open, close, or modulate as commanded by the pilot control system.

The Stainless Steel design offers superior corrosion resistance, as well as a lightweight alternative to conventional heavy iron valves. Stainless Steel construction provides extended diaphragm life, and reduces the frequency and labor costs associated with traditional maintenance repairs.

Model S100: Globe Pattern Single Chamber Basic Valve Model S1100: Angle Pattern Single Chamber Basic Valve

Operating Pressure 150 Flanged = 250 psi / 300 Flanged = 400 psi

Operating Temperature Buna-N: 160°F Maximum EPDM: 300°F Maximum Viton: 250°F Maximum

Flow Data - ACV S100 (Globe) / S1100 (Angle)

Valve Size - Inches	4	6	8	10	12	16
Maximum Continuous Flow Rate Gpm (Water)	800	1850	3100	5000	7000	11100
Maximum Intermittent Flow Rate Gpm (Water)	1000	2300	4000	6250	8900	14100
C _v Factor GPM (Globe)	210	460	790	1260	1725	2940
C _v Factor GPM (Angle)	250	561	990	1590	2500	4200

Estimated

Maximum continuous flow based on velocity of 20 ft. per second.

Maximum intermittent flow based on velocity of 25 ft. per second.

The C_v factor of a valve is the flow rate in US GPM at 60° F that will cause a 1 psi drop in pressure.

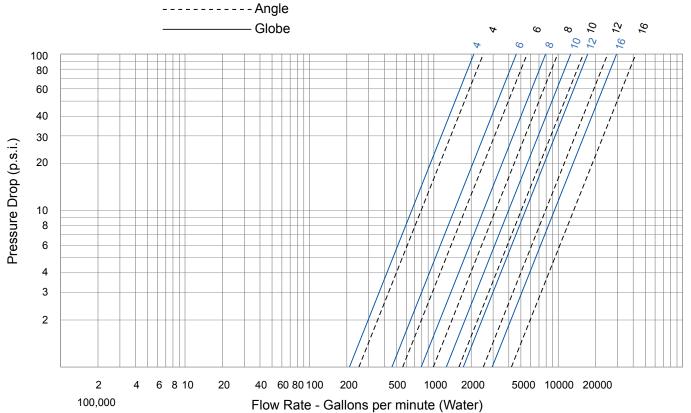
The factors stated are based upon a fully open valve.

 C_v factor can be used in the following equations to determine Flow (Q) and Pressure Drop (\triangle P):

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

 $\triangle P$ (Pressure Drop) = $(Q/C_v)^2$

Headloss



Valve Cover Chamber Capacity

Valve Size (in)	4	6	8	10	12	16
fl.oz.	22	70				
U.S. Gal			1-1/4	2-1/2	4	9-1/2

Valve Travel

Valve Size (in)	4	6	8	10	12	16			
Travel (in)	1	1-1/2	2	2-1/2	3	4			