



## Asco Solenoid Valves

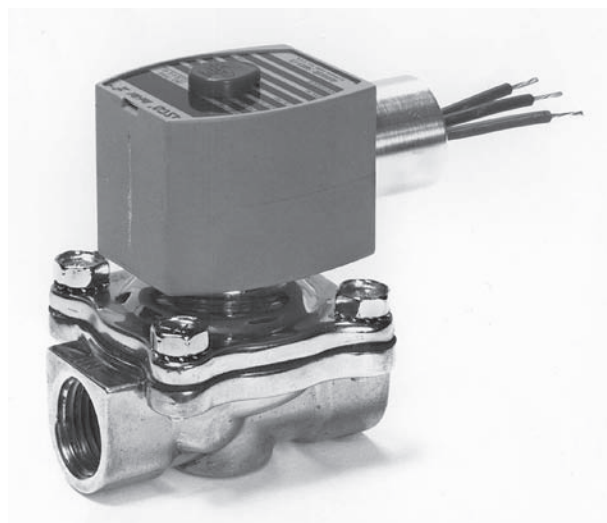
ASCO two-way solenoid valves have one inlet and one outlet connection with an internal pilot-operated (diaphragm type) valve, normally closed (closed when coil is de-energized). Watertight solenoid coil enclosures are rated NEMA 4X Watertight, Dusttight, Corrosion Resistant. Explosion proof solenoid enclosures have molded epoxy solenoids and are rated rated NEMA 7 (A, B, C, D), and NEMA 9 (E, F & G). Valves are CSA Certified and UL Listed.

### Specifications

Ambient temperature range: 32°F to 125°F  
(0°C to 52°C)

Electrical: 120 VAC, 60 Hz  
20 Watts

Material of construction: Brass



Asco Solenoid Valve.

### WATERTIGHT, GENERAL PURPOSE VALVES

GE Betz Part Number	ASCO Part Number	NPT Size (inches)	Cv Flow Factor	Operating Pressure Differential, psi (bar)	
				Minimum	Maximum
1403520	8210G95	¾	5	0 (0)	150 (10.3)
1401299	8210G54	1	13	0 (0)	125 (8.6)
1401297	8210G55	1¼	15	0 (0)	125 (8.6)
1401293 ‡	8210G56	1½ ‡	22.5	0 (0)	125 (8.6)
1401295	8210G100	2	43	5 (0.34)	125 (8.6)

### EXPLOSION PROOF VALVES

GE Betz Part Number	ASCO Part Number	NPT Size (inches)	Cv Flow Factor	Operating Pressure Differential, psi (bar)	
				Minimum	Maximum
1401292	EF8210G95	¾	5	0 (0)	150 (10.3)
1406755	EF8210G54	1	13	0 (0)	125 (8.6)
1401298	EF8210G55	1¼	15	0 (0)	125 (8.6)
1401294 ‡	EF8210G56	1½ ‡	22.5	0 (0)	125 (8.6)
1401296	EF8210G100	2	43	5 (0.34)	125 (8.6)

‡ Must have solenoid mounted vertical and upright.

### Sizing the valve

To size the valve, the following formula is helpful:

$$\text{gpm flow} = C_v \times \sqrt{\Delta P}$$

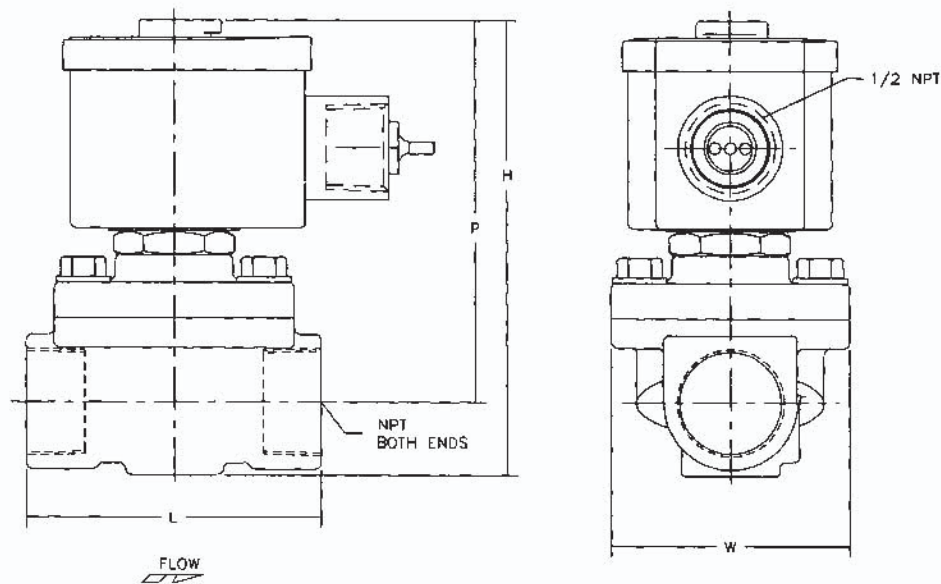
where  $\Delta P$  = Pressure drop across the valve, in psi

Note: For cooling tower blowdown, if the valve is discharging to atmosphere, then  $\Delta P$  = system pressure at the point where the valve is connected to the system.

*ASCO Solenoid Valve Dimensions*

Con. Ref. #	GE Betz P/N	H	L	P	W
1	1403520 & 1401292	4.13 in. (105mm)	2.81 in. (71mm)	3.44 in. (87mm)	2.29 in. (58mm)
2	1401299 & 1406755	5.13 in. (130mm)	3.75 in. (95mm)	4.32 in. (110mm)	3.25 in. (83mm)
3	1401297 & 1401298	5.57 in. (142mm)	3.66 in. (93mm)	4.57 in. (116mm)	3.25 in. (83mm)
4	1401293 & 1401294	5.90 in. (150mm)	4.38 in. (111mm)	4.79 in. (122mm)	3.91 in. (99mm)
5	1401295 & 1401296	7.33 in. (186mm)	5.06 in. (129mm)	4.57 in. (116mm)	4.87 in. (124mm)

**Constr. Refs. 2, 3, 4**



**Constr. Refs. 1, 5**

