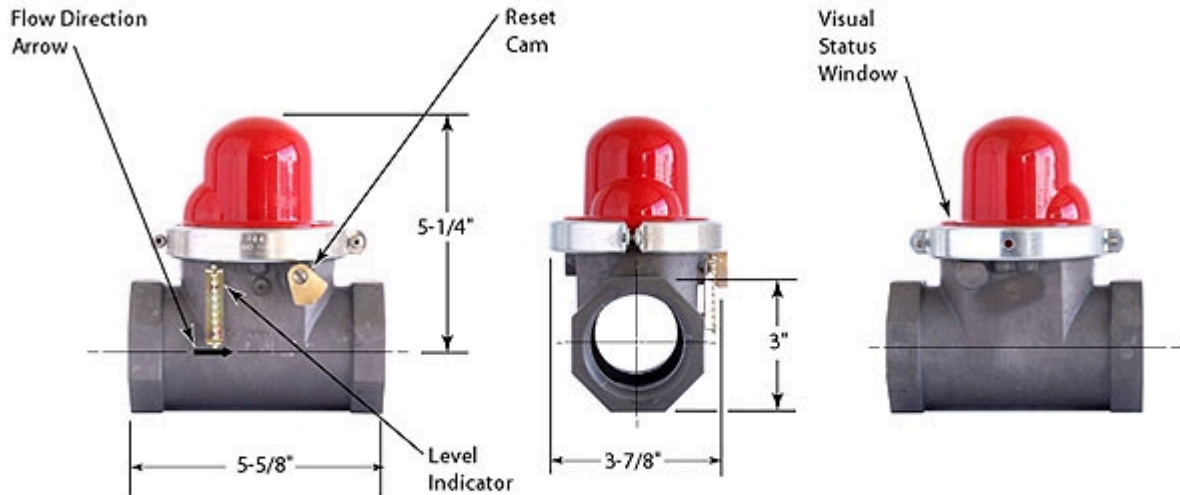


# Specifications: Model 314 Series Horizontal Valve

## 2" Specification Sheet



Valve Model#	CA-DSA No.	Length	Height	Octagon	Nominal Pipe Size	Threads Per Inch	APPLICATION DATA	
							Max. Pressure	Fuel
314	45R-113R	5-5/8"	5-1/4"	3-7/8"	2"	11-1/2	60 psi	Dry Fuel Gas

Pacific Seismic/California Valves are earthquake sensitive gas shut-off valves. They are intended to close in the event of an earthquake to prevent gas flow into a structure where earthquake damage may have occurred. The valve reduces the potential for fire or explosion due to the release of natural gas into a structure where gas lines, gas fixtures, or gas appliances.

PSP's valves do not use any source of internal or external electrical power. They are designed to remain closed until manually reset. The valves are intended to be mounted in the gas line upstream or downstream of the gas-line pressure regulator and gas meter outside the structure. These valves do not replace the manual upstream shut-off valves provided in the gas service line.

Our valve consists of a swing check valve arrangement with an acceleration-sensitive triggering mechanism. The trip mechanism consists of a steel ball resting on a tapered cup-shaped support. The horizontal motion of an earthquake causes the ball to move from the center of the support. This allows the ball's mass to act upon the movable pipe of the trip mechanism, activating the valve and initiating closure. Springs assist the valve-flapper to close and gas pressure assists in holding the valve disc in the closed position. The trip mechanism is factory set and sealed. A sight glass is provided so that the Open or Closed indicator can be seen, and the trip mechanism status of the valve can be easily determined.



Horizontal Valves														
		Sizes Available												Ambient Temperature UL -40° to 150° F C.A.D.S.A: -10° to 150°F
		NPT						Flanged						
		3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	2"	2 1/2"	3"	4"	
Maximum Pressures of Available Sizes	7 psi	✓	✓	✓	✓									
	60 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
														Fluid Natural gas LP gas

## 2" Model 314 California Seismic Valve Threaded Horizontal

FLOW CAPACITY TABLE IWC/PSIG - Capacity S.C.F.H. Merit Rating: Cv 164 (Equivalent Length of Pipe is 5 Feet) For determining approximate values at selected natural gas pressures to 60 PSIG									
Pressure Drop		8" IWC Inlet	14" IWC Inlet	3 psi Inlet	5 psi Inlet	7 psi Inlet	10 psi Inlet	20 psi Inlet	60 psi Inlet
PSI	IWC								
.0036	0.1	2,828	2,848	3,071	3,240	3,400	3,628	4,300	6,310
.0072	0.2	3,998	4,027	4,342	4,581	4,808	5,130	6,081	8,923
.0108	0.3	4,896	4,931	5,318	5,610	5,889	6,283	7,447	10,928
.0144	0.4	5,653	5,693	6,140	6,478	6,799	7,254	8,599	12,619
.0180	0.5	6,320	6,365	6,864	7,242	7,601	8,110	9,614	14,108
.0216	0.6	6,922	6,971	7,518	7,932	8,326	8,883	10,531	15,454
.0252	0.7	7,476	7,529	8,120	8,567	8,992	9,594	11,374	16,692
.0288	0.8	7,991	8,048	8,680	9,158	9,612	10,256	12,158	17,844
.0324	0.9	8,475	8,535	9,205	9,712	10,194	10,877	12,895	18,925
.0360	1.0	8,932	8,996	9,702	10,237	10,745	11,465	13,592	19,949
.0720	2.0	12,617	12,707	13,707	14,464	15,183	16,202	19,212	28,205
.1080	3.0	15,434	15,545	16,770	17,698	18,580	19,829	23,518	34,536
.1440	4.0	17,800	17,928	19,345	20,417	21,436	22,879	27,142	39,869
.1800	5.0	19,877	20,020	21,606	22,806	23,946	25,561	30,330	44,564