

**CAM-CENTRIC® 100% RECTANGULAR PORTED, ECCENTRIC PLUG VALVES  
PORT AREAS AND FLOW DATA**

SIZE	MODEL NO.	PORT AREA (SQ. IN.)	% OF STD. WT. PIPE	K	CV
6	5606F	30.2	107	.34	1,840
8	5608F	53.4	107	.51	2,680
10	5610F	84.1	107	.63	3,770
12	5612F	122	107	.80	4,800
14	5614F	146	106	.66	7,170
16	5616F	197	108	.79	8,600
18	5618F	246	105	.59	12,600
20	5620F	352	107	.60	15,400
24	5624F	507	107	.45	25,600
30	5630F	732	107	.41	42,000
36	5636F	1002	108	.29	72,000

FORMULA FOR HEADLOSS IN A WATER LINE:

$$\Delta H = K \left( \frac{V^2}{2g} \right)$$

FORMULA FOR PRESSURE DROP IN A WATER LINE:

$$\Delta P = Sg \left( \frac{Q}{Cv} \right)^2$$

WHERE:  $\Delta H$  = Head loss, ft. of water column  
 K = Flow coefficient  
 V = Flow velocity, ft./sec.  
 g = Gravity, 32.2 ft./sec.<sup>2</sup>

$\Delta P$  = Pressure drop, psi  
 Q = Flow rate, gpm  
 Cv = Flow coefficient  
 Sg = Specific gravity

100% RECTANGULAR PORTED, ECCENTRIC PLUG VALVE PORT AREAS AND FLOW DATA

DATE 7-7-17

**VAL-MATIC®**

VALVE AND MANUFACTURING CORP.

DRWG. NO.

**SS-3806**