

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

SIZE	MODEL NO.	PORT AREA (SQ. IN.)	% OF STD. WT. PIPE	K	CV
1	5801R	.86	100	.65	37
2	5802R	1.6	100	.65	150
2 1/2	5825R	7.4	150	.60	240
3	5803R	7.4	100	.70	320
4	5804R	12.7	100	.71	570
5	5805R	24.6	120	.60	960
6	5806R	24.6	85	.80	1200
8	5808R	42.3	85	.85	2070
10	5810R	66.8	85	.83	3250
12	5812R	97.1	86	.82	4750
14	5814R	119	86	.90	6150
16	5816R	158	86	.90	8050
18	5818R	193	83	.90	10200
20	5820R	240	83	.90	12600
24	5824R	352	83	.90	18100
30	5830R	507	75	.90	28300
36	5836R	732	75	.90	40700

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: ΔH = Head loss, ft. of water column

K = Flow coefficient

V = Flow velocity, ft./sec.

g = Gravity, 32.2 ft./sec.²

ΔP = Pressure drop, psi

Q = Flow rate, gpm

Cv = Flow coefficient

Sg = Specific gravity

DATA BASED ON INDEPENDENT LABORATORY TEST DATA.

Revised 5-17-00

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DATE 8-5-96

VAL-MATIC®

VALVE AND MANUFACTURING CORP.

DRWG. NO.

SS-1234