

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

SIZE	MODEL NO.	PORT AREA (SQ. IN.)	MIN % OF STD. WT. PIPE	K	CV
1	5801R	.86	100	.65	37
2	5802R	3.4	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	1,200
8	5808R	42.3	85	.85	2,070
10	5810R	66.8	85	.83	3,250
12	5812R	97.1	86	.82	4,750
14	5814R	119	86	.90	6,150
16	5816R	158	86	.90	8,050
18	5818R	193	83	.90	10,200
20	5820R	240	83	.90	12,600
24	5824R	425	100	.45	25,600
30	5830R	507	75	.90	28,300
36	5836R	732	75	.90	40,700
42	5842R	1,002	75	.90	55,500
48	5848R	1,826	104	.56	91,650
54	5854R	1,826	82	.90	91,650

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 5-13-19

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DATE 8-5-96

VAL-MATIC®

VALVE AND MANUFACTURING CORP.

DRWG. NO.

SS-1234