

ABB Inc.

DATE: 21 APRIL-2004
Calibration By: Ron Teal

SERIAL NUMBER: Balancing Valve: 3/4"-High REF.: FLO-PAC
SIZE: 3/4 in. - NPT (Brass)
 Test Valve Connection: Flanged 150# (Adapters)
 CAL FACTOR: 8.05 US GAL PER MINUTE & 10 FT/SEC.
 MASTER METER: ABB-MAG
 METER SIZE: 3/4 in. Serial# **3/4"-HIGH** Pipe Size: 3/4" Sch.40 ID: 0.824 in.
 TEST FREQUENCY: 1000 Hz **TEST VELOCITY: 80% @Max.= 8 FT/SEC.**
 TEST FLOW RATE: 0 TO 8 US GAL PER MINUTE
 CONVERTER: ABB DP Cell: Series 600T-C **REFERENCE METER: MAG-8.05 USGPM**
 Range: 160"H2O (4-20 mA)

BETA RATIO: 0.55
THROAT SIZE: 0.4532 in.

TEST RESULTS

RUN #	MASTER METER				DP-"H2O	K-METER	TEST VALVE		RE #	% ACC.
	Vel. (Ft/Sec)	P(PSIG)	TEMP-F	USGPM			TRANS OUT.	Cd (COEF)		
1	4.80	20	74	7.98	41.88	0.3204	18.80 mA	1.0096	30603	-2.94
2	2.46	20	74	4.09	10.3	0.3312	10.51 mA	1.0435	15685	0.31
3	1.85	20	74	3.08	5.7	0.3352	5.570 mA	1.0563	11812	1.54
4	2.51	20	74	4.18	10.59	0.3338	10.13 mA	1.0517	16030	1.10

AVERAGE COEFFICIENTS:
 Cd: 1.0403 K-METER: 0.3302

Cv of combined valve (Venturi+Valve)
 Valve Coefficient at 1 PSI (27.73"H2O)

CV=7.00

Pressure Loss: 12% Of DP
 (Permanent)

