

ABB Inc.

DATE: 21 APRIL-2004
Calibration By: Ron Teal

SERIAL NUMBER: Balancing Valve: 1-1/2" REF.: FLO-PAC
SIZE: 1-1/2 in. - NPT Brass
 Test Valve Connection: Flanged 150# (Adapters)
 CAL FACTOR: 24.20 US GAL PER MINUTE & 30 FT/SEC. @ 100%
 MASTER METER: ABB-MAG
 METER SIZE: 1-1/2 in. Serial# **1-1/2 in.** Pipe Size: 1-1/2" Sch.40 ID: 1.61 in.
 TEST FREQUENCY: 1000 Hz **TEST VELOCITY: 80% @Max.= 24 FT/SEC.**
 TEST FLOW RATE: 0 TO 23 US GAL PER MINUTE
 CONVERTER: ABB DP Cell: Series 600T-C **REFERENCE METER: MAG-24.20 USGPM**
 Range: 160"H2O (4-20 mA)

BETA RATIO: 0.45
THROAT SIZE: 0.7245 in.

TEST RESULTS

RUN #	MASTER METER				USGPM	DP-"H2O	K-METER	TEST VALVE		RE #	% ACC.
	Vel. (Ft/Sec)	P(PSIG)	TEMP-F	TRANS OUT.				Cd (COEF)			
1	3.51	20	74	22.28	58.80	0.1978	9.90 mA	0.9564	43730	-2.56	
2	1.79	20	74	11.37	14.45	0.2036	5.45 mA	0.9845	22316	0.30	
3	0.89	20	74	5.68	3.55	0.2052	4.36 mA	0.9923	11148	1.09	
4	1.78	20	74	11.3	14.03	0.2053	5.40 mA	0.9930	22179	1.17	

AVERAGE COEFFICIENTS:
Cd: 0.9815 K-METER: 0.2030

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

CV=16

Pressure Loss: 12% Of DP
(Permanent)

