

Mechanical Balancing Valve

Stainless Steel, Manual Balancing, Variable Orifice, Reduced Port, Flanged Connection, Class 150

TBS - FLANGED



FEATURES

- 2 Offsetting Pressure/Temperature (PT) Ports
- +/- 10% Accuracy
- Precision Control Knob Operator
- Wetted Surfaces Contain Less than .25% Lead Content

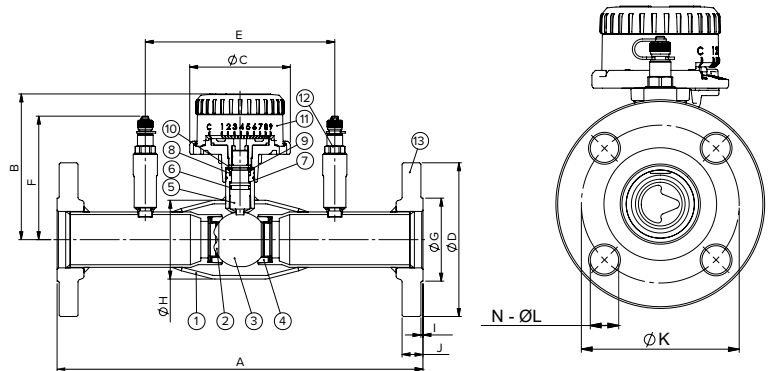
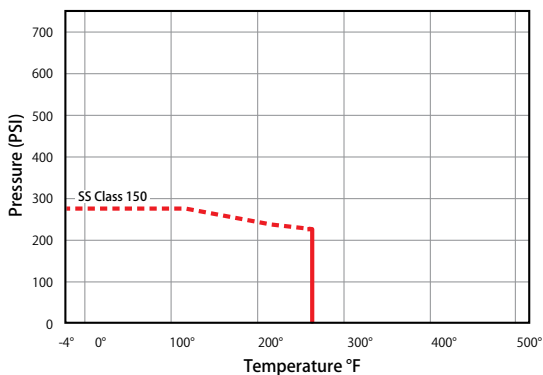
CERTIFICATIONS/APPROVALS

Flange: ASME/ANSI B16.5
ASME/ANSI Class 150

PRESSURE/TEMPERATURE RATING

Max Pressure: 285 CWP
Max Temperature: 245°F
Min Temperature: -4°F

VALVE SEAT RATING



MATERIALS

No.	Part	Material
1	Body	316 Stainless Steel
2	Control Insert	POM- C
3	Ball	316 Stainless Steel
4	Seat (2)	PTFE-G439
5	Stem	316 Stainless Steel
6	O-Ring	Viton®
7	Sliding Plate	PTFE C25
8	O-Ring	NBR
9	Stem Packing	PTFE C25
10	Snap/Retaining Ring	304 Stainless Steel
11	Control Wheel	PA66 GF30
12	PT Plug (2)	303 Stainless Steel
13	Flange	Stainless Steel - A182 F316

DIMENSIONS

Part No.	Size	A	B	C	D	E	F
TBS-AFF	1/2"	9.84	4.02	3.03	3.74	5.71	3.31
TBS-BFF	3/4"	9.84	4.17	3.03	4.13	5.71	3.43
TBS-CFF	1"	9.45	4.25	3.03	4.53	5.71	3.58
TBS-DFF	1-1/4"	11.02	4.41	3.03	5.51	5.71	3.74
TBS-EFF	1-1/2"	10.63	4.57	3.03	5.91	5.71	3.86
TBS-FFF	2"	12.20	4.84	3.03	6.50	5.71	4.09

Part No.	Size	G	H	I	J	K	L
TBS-AFF	1/2"	1.77	1.33	0.06	0.44	2.38	4-0.63
TBS-BFF	3/4"	2.32	1.67	0.06	0.50	2.75	4-0.63
TBS-CFF	1"	2.76	1.90	0.06	0.56	3.13	4-0.63
TBS-DFF	1-1/4"	3.07	2.37	0.06	0.63	3.50	4-0.63
TBS-EFF	1-1/2"	3.54	2.76	0.06	0.69	3.88	4-0.63
TBS-FFF	2"	4.06	3.00	0.06	0.75	4.75	4-0.75

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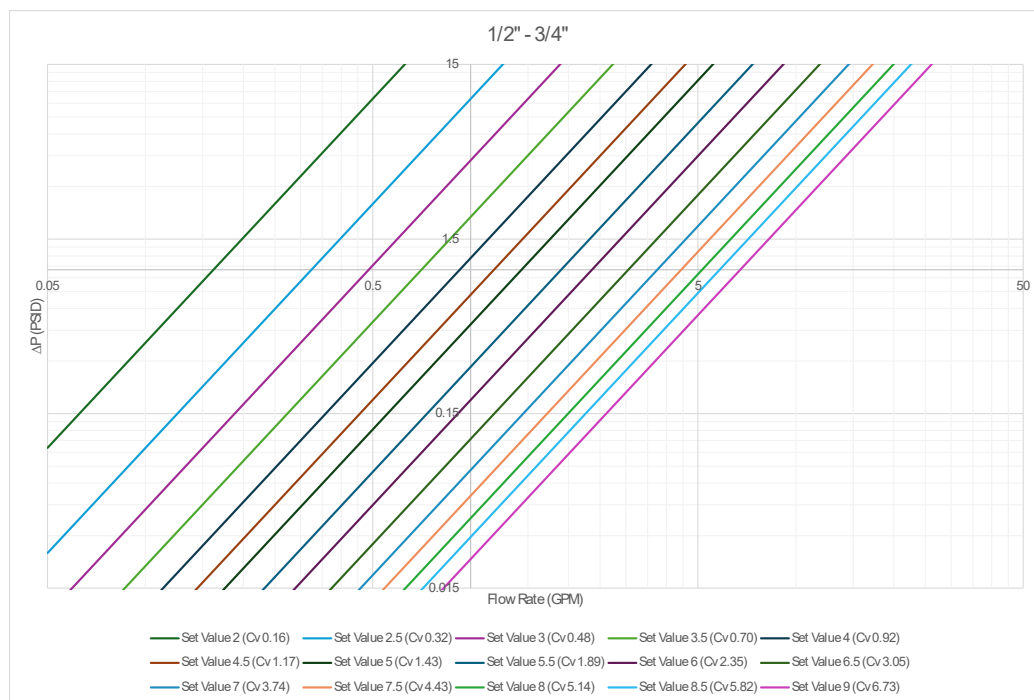
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Cv VALUE

Set value	1/2"-3/4"	1"	1-1/4"	1-1/2"	2"
1	-	-	0.45	0.69	1.46
1.5	-	0.40	0.66	1.17	2.08
2	0.16	0.57	0.96	1.71	3.12
2.5	0.32	1.14	1.25	2.34	4.10
3	0.49	1.57	1.66	3.12	5.07
3.5	0.71	1.92	2.08	3.75	6.49
4	0.92	2.31	2.66	4.58	7.91
4.5	1.18	2.77	3.17	5.62	9.64
5	1.43	3.47	3.95	6.91	11.36
5.5	1.90	4.05	4.87	8.30	13.80
6	2.36	5.20	5.91	9.91	16.23
6.5	3.05	5.90	6.90	11.73	19.56
7	3.75	7.75	8.40	14.23	22.89
7.5	4.44	8.44	9.99	16.65	27.05
8	5.14	10.75	11.65	20.39	31.21
8.5	5.83	11.56	13.32	24.14	35.37
9	6.74	14.62	15.19	26.09	39.54

FLOW CHARTS

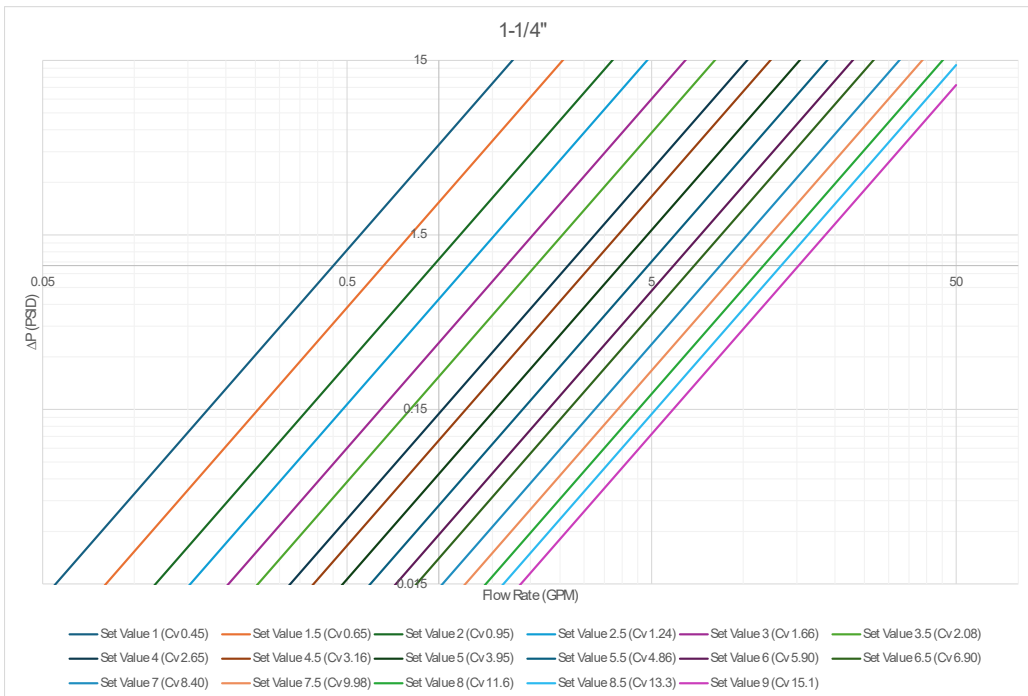
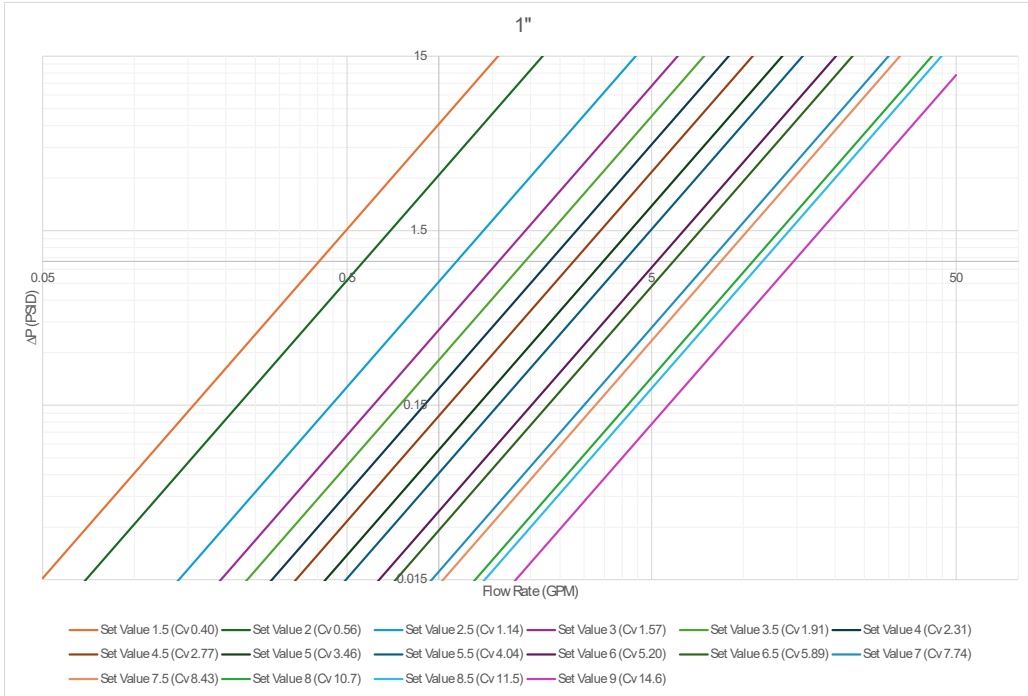


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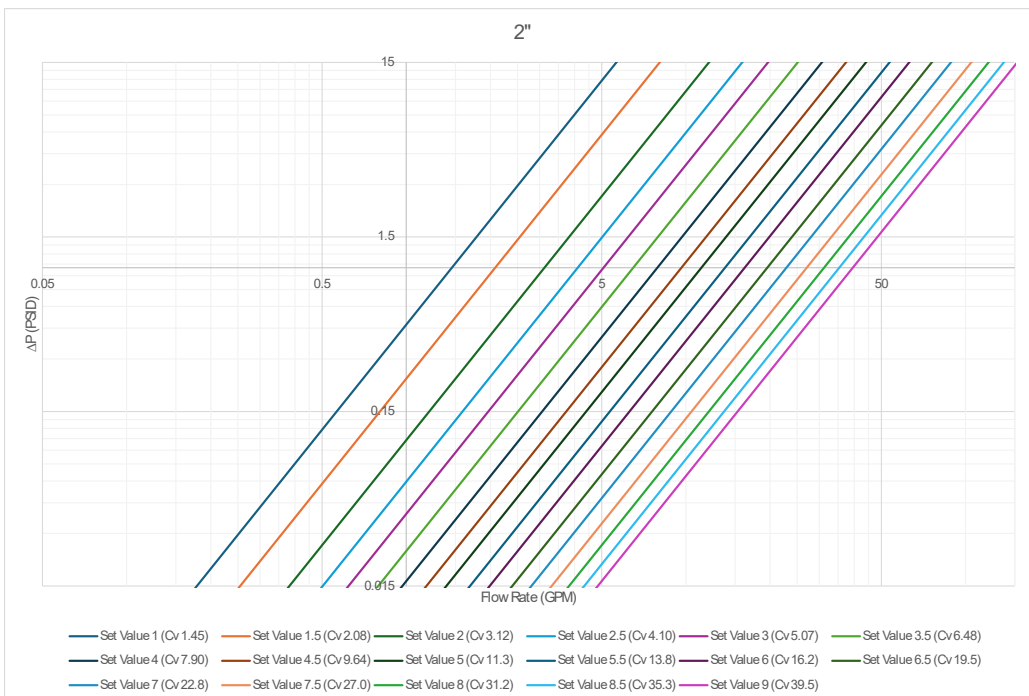
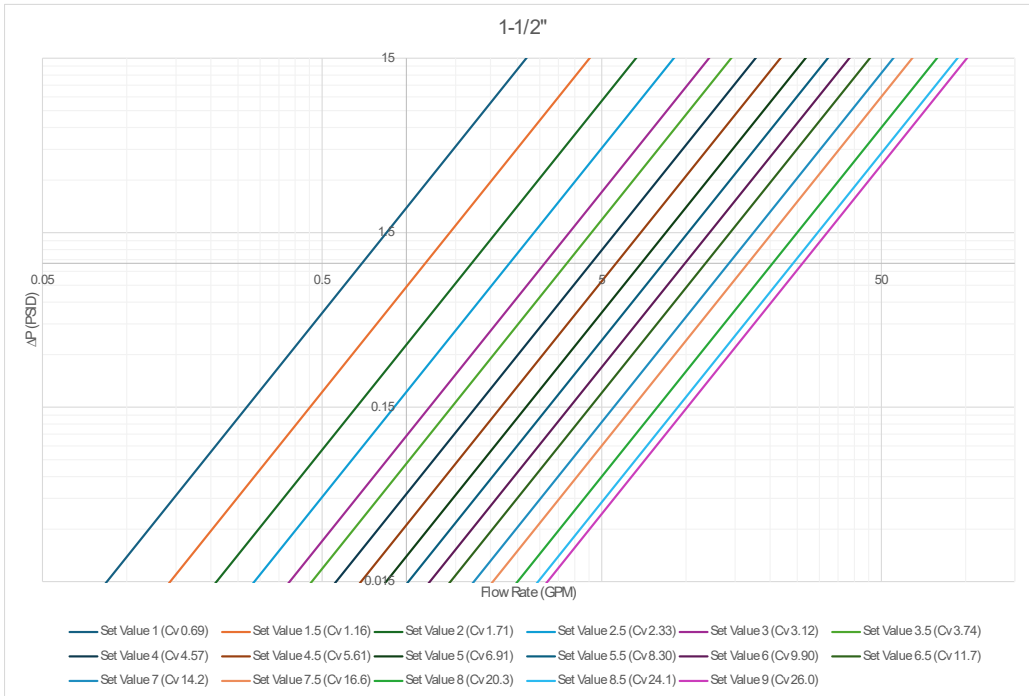
WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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