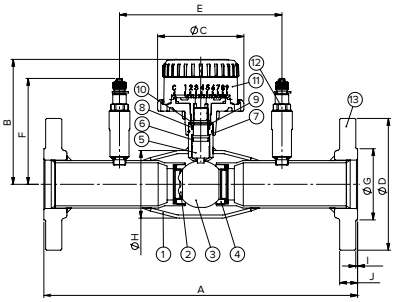
Mechanical Balancing Valve

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

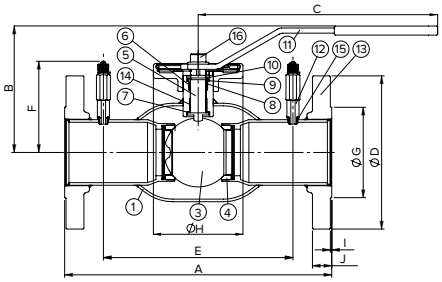
TBS-FLANGED



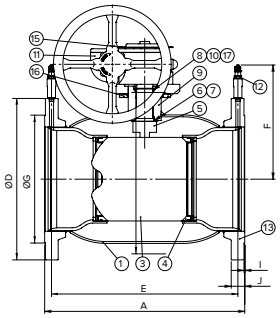
1/2" - 2"

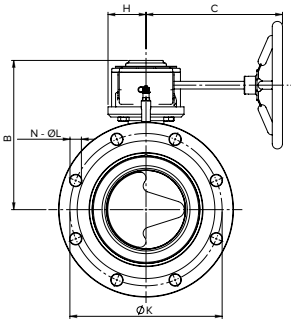


2-1/2" - 6"



8" - 10"





FEATURES

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

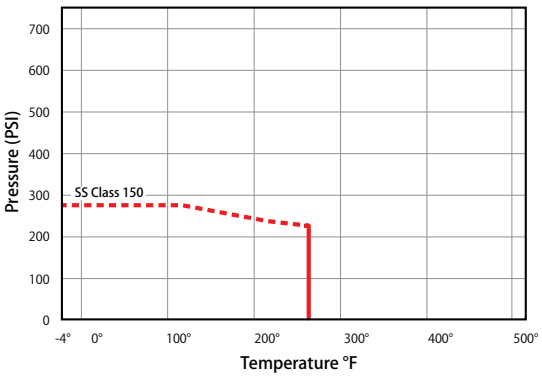
CERTIFICATIONS/APPROVALS

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



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.

© 2026 JOMAR VALVE
I P: 586.268.1220 I F: 586.979.8615 I JOMARVALVE.COM

Mechanical Balancing Valve

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

TBS-FLANGED

MATERIALS

No.	Part	Material (1/2" - 2")	Material (2-1/2" - 6")	Material (8" - 10")
1	Body	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel
2	Control Insert	POM-C	-	-
3	Ball	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel
4	Seat (2)	PTFE G439	PTFE G439	Hardened PTFE
5	Stem	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel
6	O-Ring	Viton®	FKM	FKM
7	Sliding Plate	PTFE C25	PTFE C25	PTFE C25
8	O-Ring	NBR	NBR	NBR
9	Stem Seal*	PTFE C25	303 Stainless Steel	316L Stainless Steel
10	Snap/Retaining Ring**	304 Stainless Steel	1075 Stainless Steel	304 Stainless Steel
11	Operator	PA66 GF30	Carbon Steel - A283C	Welded Carbon Steel
12	PT Plug (2)***	303 Stainless Steel	303 Stainless Steel	316L Stainless Steel
13	Flange	Stainless Steel - A182 F316	Stainless Steel - A182 F316	Stainless Steel - A182 F316
14	Bearing****	-	Steel+Bronze+PTFE	-
15	Sealing Ring	-	316L Stainless Steel	-
16	Handle Nut/Hex Screw	-	Zinc Plated Carbon Steel - 8.8	Zinc Plated Carbon Steel - 8.8
17	Key	-	-	Carbon Steel - 1045

* 304L Stainless Steel for 2-1/2", PTFE G439 for 6"
** Stainless Steel - A228 for 2-1/2", 304 Stainless Steel for 6"
*** 316L Stainless Steel for 2-1/2"
**** Iglidur P for 2-1/2"

DIMENSIONS

Part No.	Size	A	B	C	D	E	F	G	H	I	J	K	L
TBS-AFF	1/2"	9.84	4.02	3.03	3.74	5.71	3.31	1.77	1.33	0.06	0.44	2.38	4-0.63
TBS-BFF	3/4"	9.84	4.17	3.03	4.13	5.71	3.43	2.32	1.67	0.06	0.50	2.75	4-0.63
TBS-CFF	1"	9.45	4.25	3.03	4.53	5.71	3.58	2.76	1.90	0.06	0.56	3.13	4-0.63
TBS-DFF	1-1/4"	11.02	4.41	3.03	5.51	5.71	3.74	3.07	2.37	0.06	0.63	3.50	4-0.63
TBS-EFF	1-1/2"	10.63	4.57	3.03	5.91	5.71	3.86	3.54	2.76	0.06	0.69	3.88	4-0.63
TBS-FFF	2"	12.20	4.84	3.03	6.50	5.71	4.09	4.06	3.00	0.06	0.75	4.75	4-0.75
TBS-GFF	2-1/2"	12.20	5.79	10.94	7.01	8.66	4.17	4.13	4.09	0.08	0.87	5.50	4-0.75
TBS-HFF	3"	12.20	6.18	10.94	7.52	8.66	4.41	5.00	4.09	0.08	0.94	6.00	4-0.75
TBS-IFF	4"	13.78	6.73	10.98	9.00	9.65	4.87	6.19	4.09	0.06	0.88	7.50	8-0.75
TBS-KFF	6"	16.14	9.45	23.62	11.00	11.81	5.98	8.50	4.09	0.06	1.00	9.50	8-0.87
TBS-LFF	8"	16.73	11.54	10.55	13.50	15.59	9.53	10.63	2.95	0.06	1.13	11.75	8-0.88
TBS-MFF	10"	21.65	13.58	11.85	16.00	20.39	10.79	12.75	3.54	0.06	1.19	14.25	12-1.00

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.

Mechanical Balancing Valve

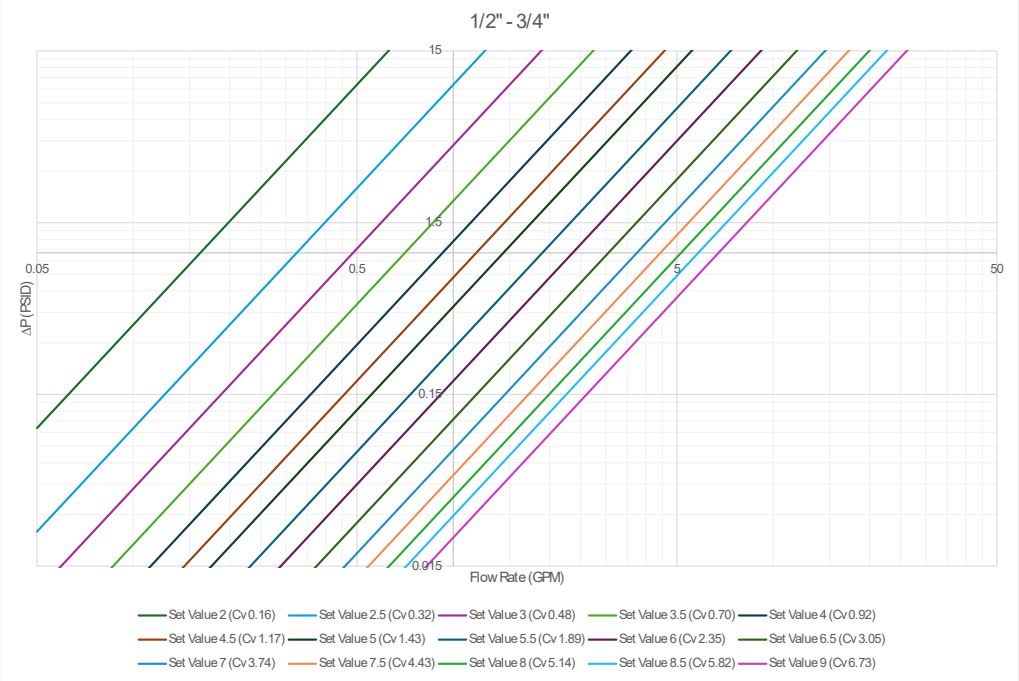
Stainless Steel, Manual Balancing, Variable Orifice, Reduced Port, Flanged Connection, Class 150

TBS-FLANGED

Cv VALUE

Set value	1/2"-3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"	8"	10"
1	-	-	0.45	0.69	1.46	2.91	3.95	7.49	15.81	22.77	40.46
1.5	-	0.40	0.66	1.17	2.08	4.21	6.21	10.95	23.30	23.35	59.19
2	0.16	0.57	0.96	1.71	3.12	5.49	8.45	14.40	30.80	44.39	76.87
2.5	0.32	1.14	1.25	2.34	4.10	7.33	11.83	18.82	40.99	59.07	104.04
3	0.49	1.57	1.66	3.12	5.07	9.16	15.19	23.22	51.19	73.75	127.16
3.5	0.71	1.92	2.08	3.75	6.49	11.31	18.62	28.26	63.67	91.67	161.84
4	0.92	2.31	2.66	4.58	7.91	13.44	22.06	33.34	76.16	109.82	190.74
4.5	1.18	2.77	3.17	5.62	9.64	16.36	26.95	41.41	97.17	139.88	248.54
5	1.43	3.47	3.95	6.91	11.36	19.27	31.84	49.52	118.19	169.93	300.56
5.5	1.90	4.05	4.87	8.30	13.80	24.21	38.39	59.93	146.90	211.55	375.70
6	2.36	5.20	5.91	9.91	16.23	29.13	44.95	70.33	175.62	253.16	439.28
6.5	3.05	5.90	6.90	11.73	19.56	34.13	53.48	87.19	227.22	325.99	578.00
7	3.75	7.75	8.40	14.23	22.89	39.12	62.01	104.04	278.83	375.70	665.86
7.5	4.44	8.44	9.99	16.65	27.05	45.99	74.70	131.09	335.01	482.05	855.44
8	5.14	10.75	11.65	20.39	31.21	52.85	87.39	158.14	391.19	561.82	1001.10
8.5	5.83	11.56	13.32	24.14	35.37	61.80	106.12	195.60	462.17	665.86	1179.12
9	6.74	14.62	15.19	26.09	39.54	70.75	124.85	249.70	532.68	762.96	1291.25

FLOW CHARTS



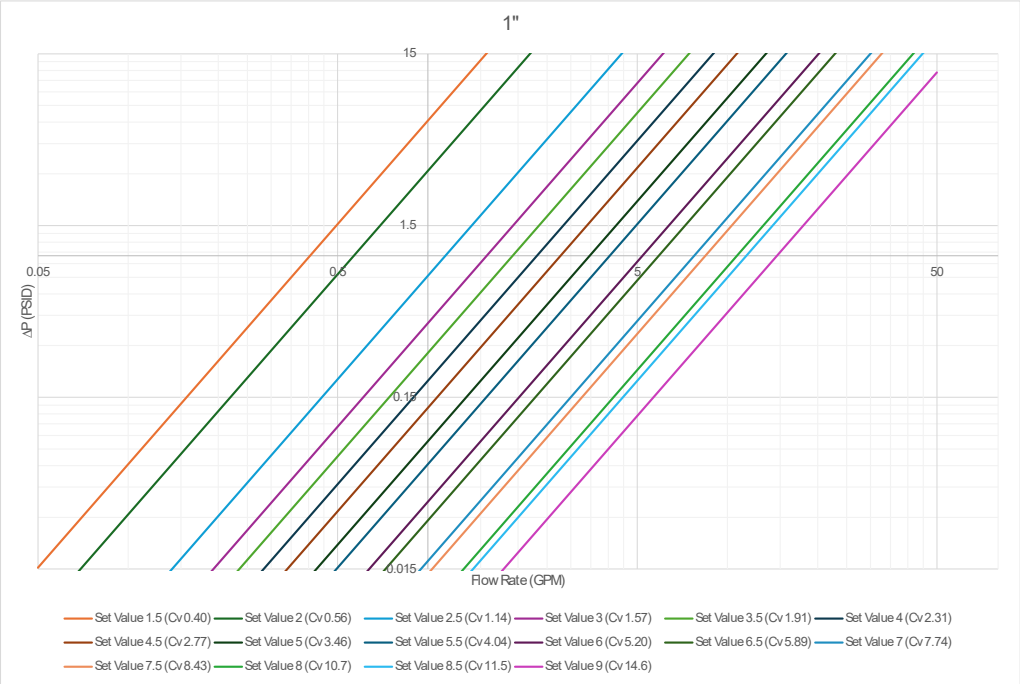
WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov.

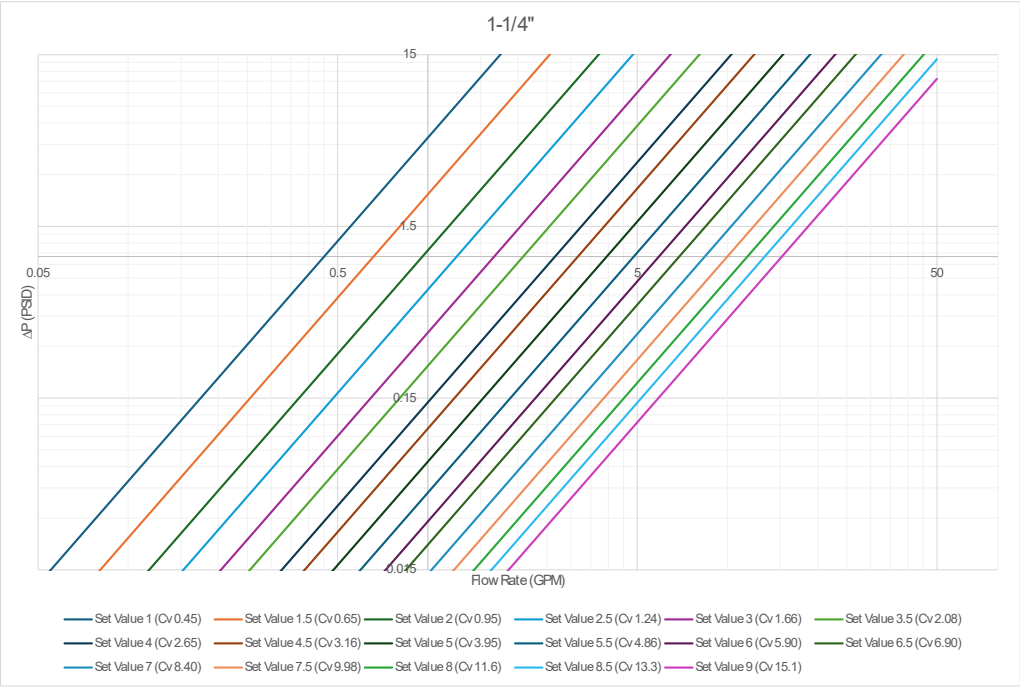
Mechanical Balancing Valve

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

TBS-FLANGED

FLOW CHARTS





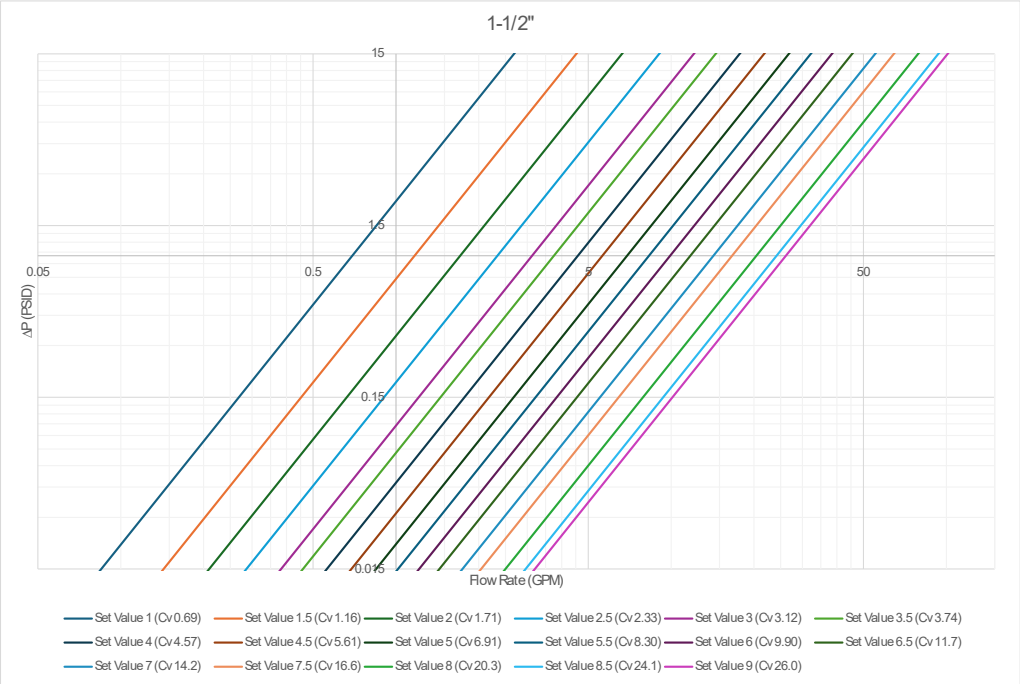
WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov.

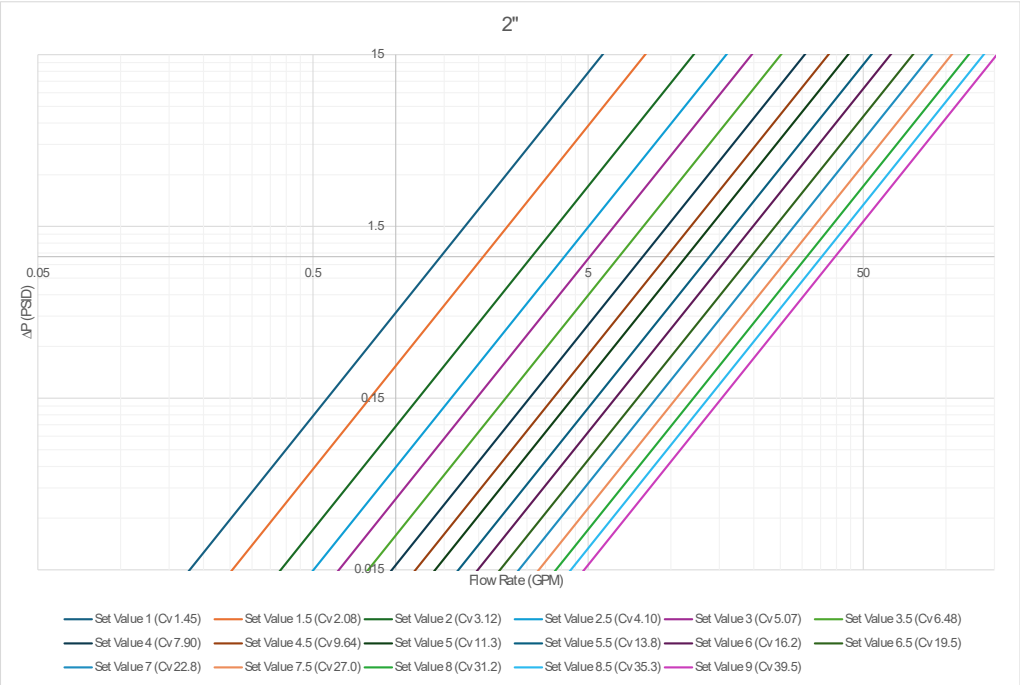
Mechanical Balancing Valve

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

TBS-FLANGED

FLOW CHARTS





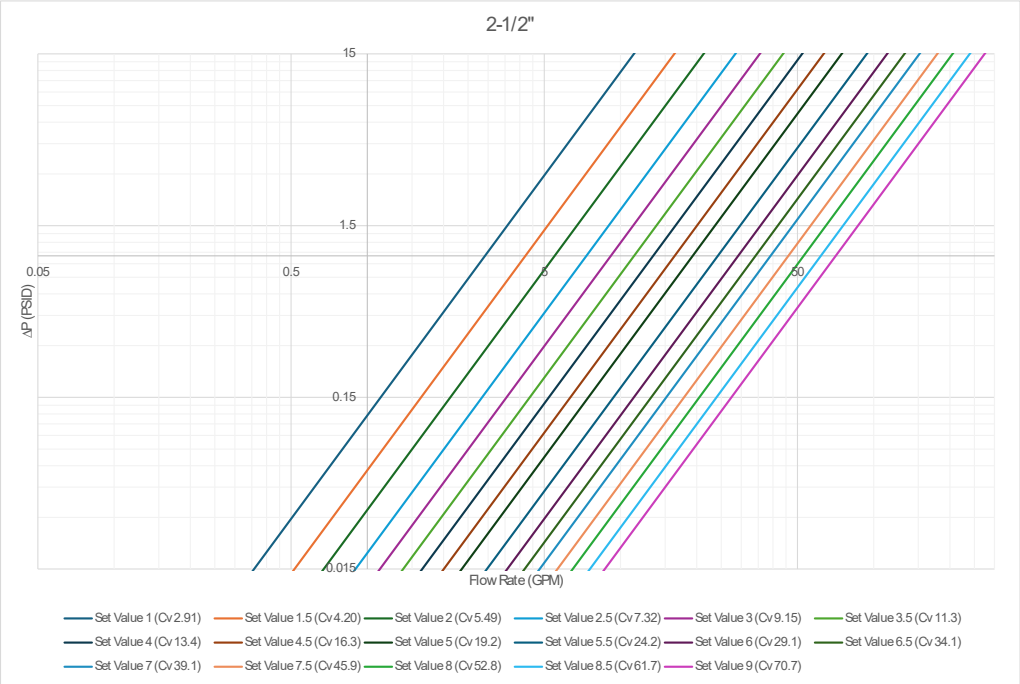
WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov.

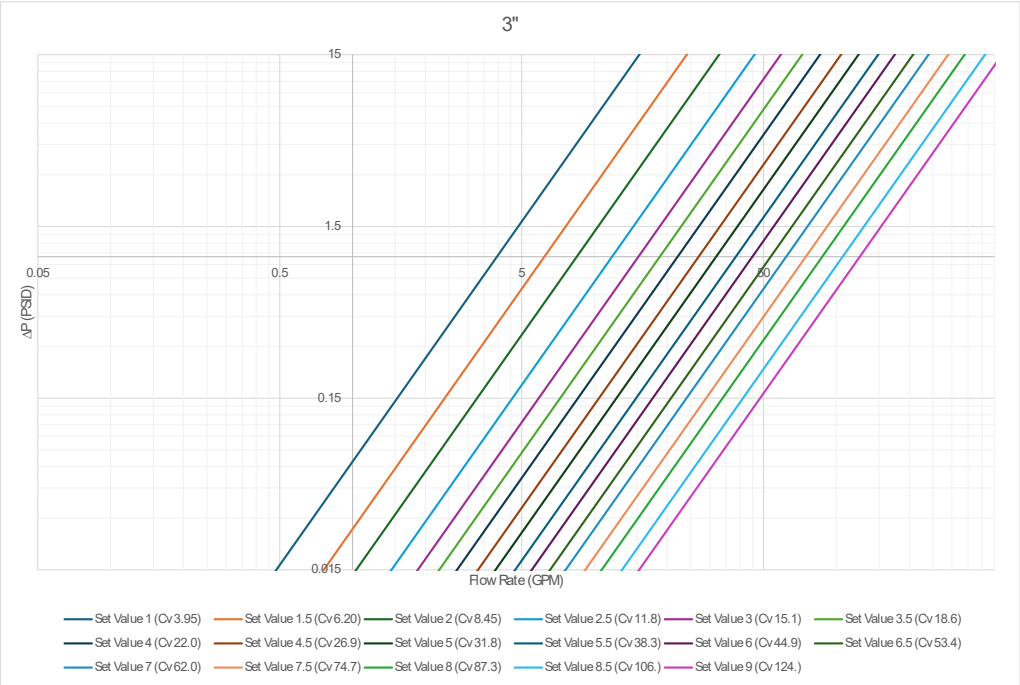
Mechanical Balancing Valve

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

TBS-FLANGED

FLOW CHARTS





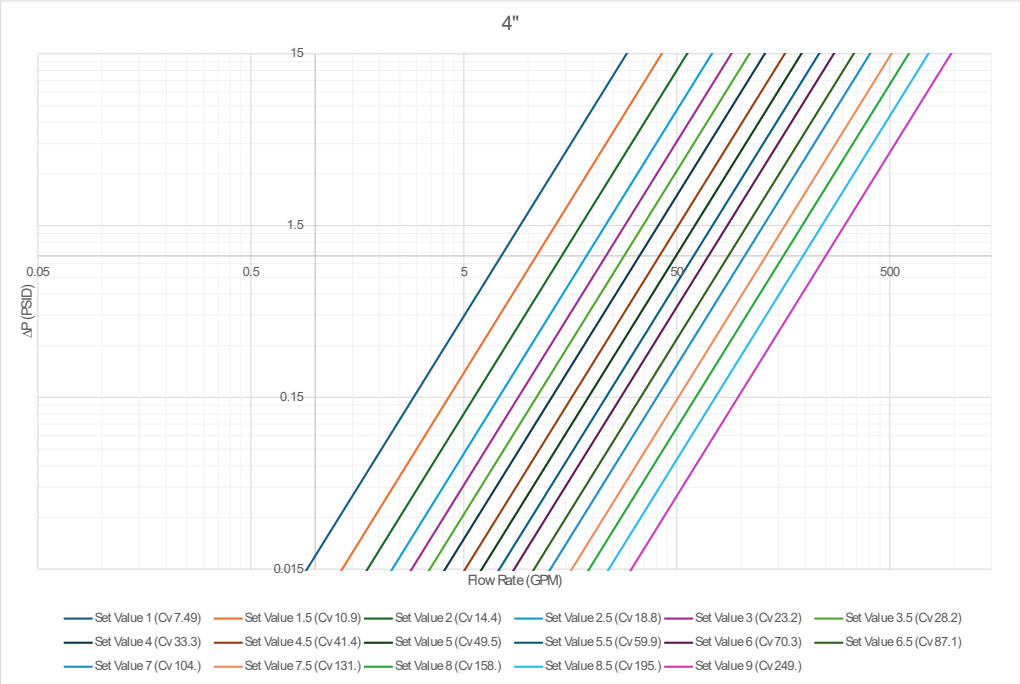
WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov.

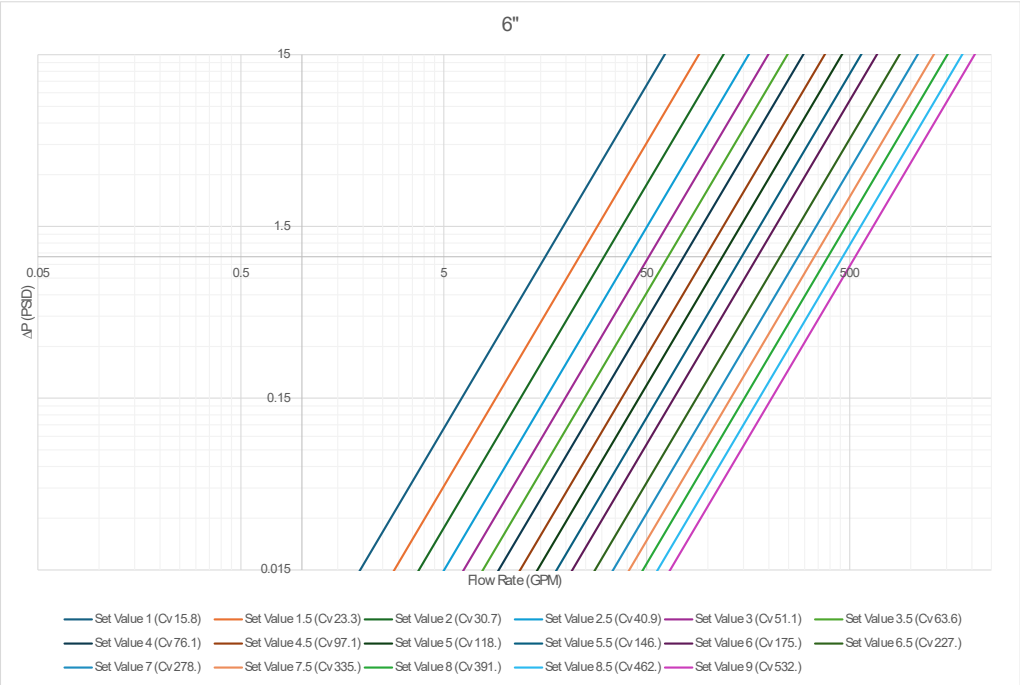
Mechanical Balancing Valve

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

TBS-FLANGED

FLOW CHARTS





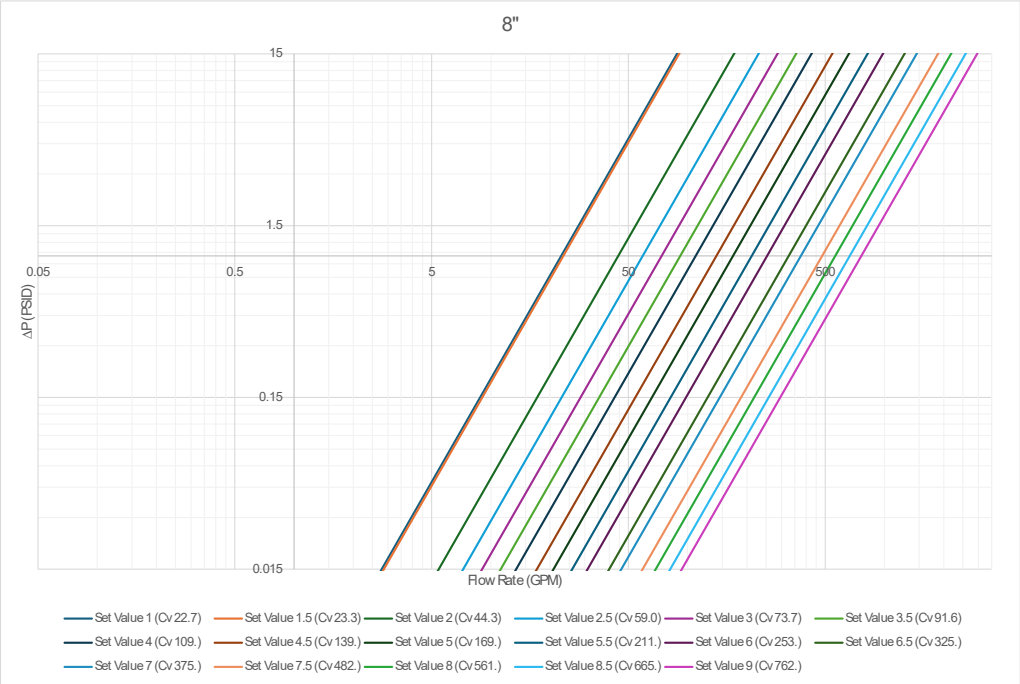
WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov.

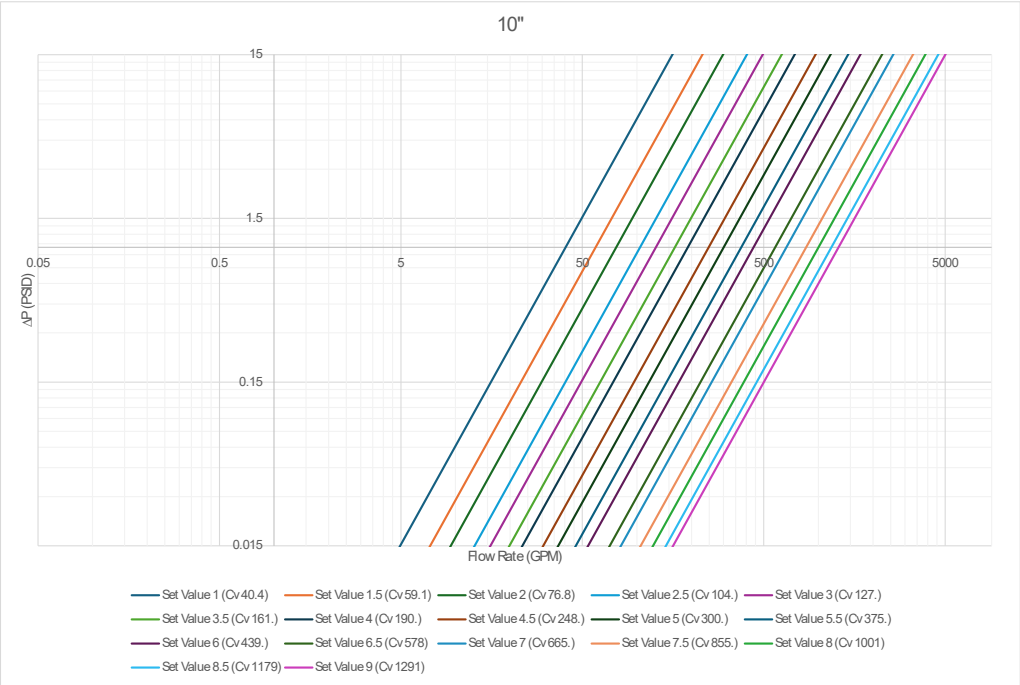
Mechanical Balancing Valve

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

TBS-FLANGED

FLOW CHARTS





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.