



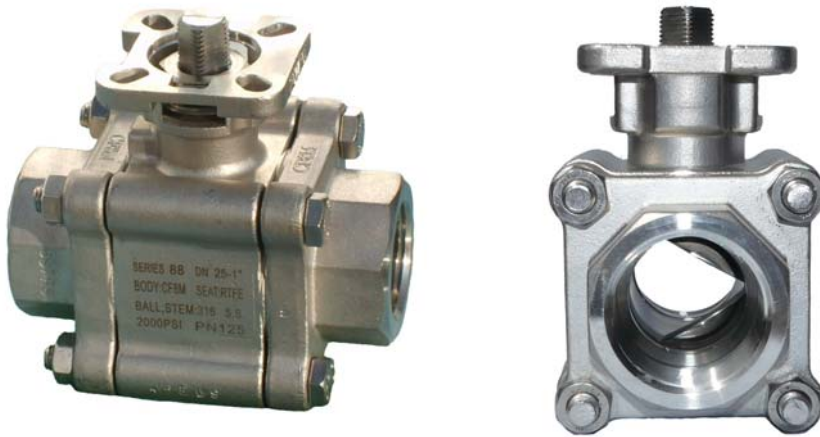
Valve Data Sheet



Doc: SBV.M88-V/02

Jun 2007

V Control direct mount heavy duty 3 piece stainless steel ball valve for modulating applications.



Standard features:

3 Piece construction

In-line maintainable

Direct mount ISO5211

Anti-static, anti-blow out stem

V Control ball (30°, 60° or 90°)

Specifications:

GENERAL	VALVE TYPE	V BORE FLOATING BALL 1/4 TURN BALL VALVE		
	VALVE MODEL	BVSSM88-V		
	OPERATOR	LOCKABLE LEVER		
	DESIGN STANDARDS	ANSI B16.34 Valves, flanged, threaded and weld ends		
	FACE TO FACE DIMS	ANSI B16.34 Valves, face to face		
	TESTING STANDARDS	BS 6755 Testing of valves		
	CERTIFICATION	3.1B On Request		
	ACTUATOR MOUNTING	ISO 5211	DIRECT MOUNTS WITHOUT MOUNTING KIT	
	SIZE RANGE	1/4" to 4"		
	PRESSURE RATING	1/4" - 2" 1000psi. 2 1/2" - 4" 800psi		
	TEMPERATURE LIMITS	-60C ~ +210C		
MATERIALS	BODY	CF8M		
	BALL	316SS		
	STEM(BLOW-OUT PROOF)	316SS		
	SEATS	50% SS FILLED PTFE		
	SEALS	PTFE		
END CONNECTIONS	BSP, NPT, Butt or socket weld			
FEATURES	ANTI-STATIC DEVICE	STANDARD		
	FIRE SAFE	DESIGN, NOT CERTIFIED		
	PRIMARY STEM SEAL	CONICAL STEM THRUST SEAL		
	SECONDARY STEM SEAL	CHEVRON V RING		
	STEM SEAL ADJUSTMENT	BELVILLE WASHERS		
	IN-LINE MAINTAINABLE	YES		
OTHER	316L ends for weld end versions			



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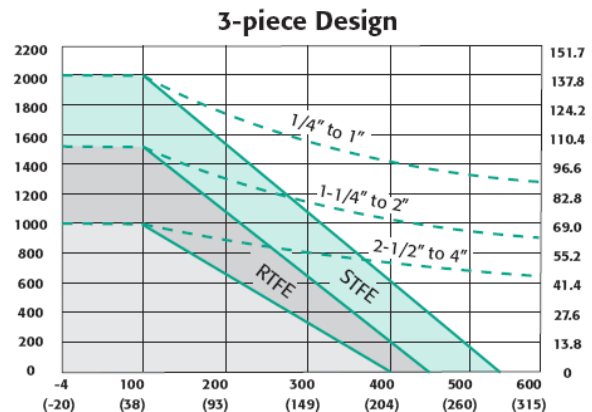
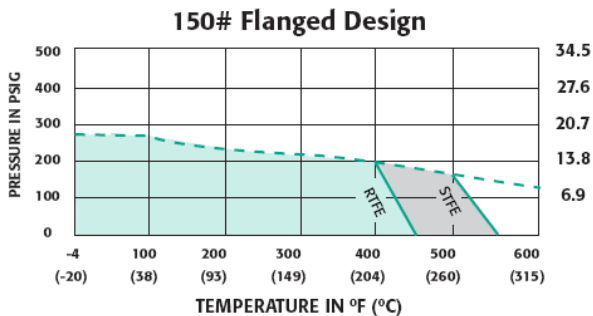
"V" Series Flow Coefficients- Cv Chart

CV = Flow of water in USGPM at 1psi pressure drop

Valve Size	Ball Angle	0%	15%	20%	30%	40%	50%	60%	70%	80%	90%	100%
1/2"	30	0	0.1	0.1	0.2	0.3	0.5	0.8	1.1	1.6	2.2	2.6
	60	0	0.1	0.1	0.3	0.5	0.9	1.4	2	3.3	4.4	6
	90	0	0.1	0.2	0.4	0.6	0.9	1.5	2.2	3.8	5.4	6.9
3/4"	30	0	0.1	0.2	0.5	0.7	1.1	1.8	2.4	3.3	4.5	5.4
	60	0	0.1	0.2	0.7	1	1.7	2.8	4	6.5	9	12
	90	0	0.2	0.4	0.8	1.2	2	3.1	4.6	8	11.3	14
1"	30	0	0.1	0.3	0.8	1.3	2.3	3.5	5.1	9.8	8.5	10
	60	0	0.2	0.4	1.1	1.8	3.4	5.3	7.9	12.3	15.3	21
	90	0	0.2	0.6	1.8	3.4	5.1	8.1	11.4	16	21	29
1 1/4"	30	0	0.2	0.4	1.1	2	3.7	5.5	8	10	13	15
	60	0	0.2	0.6	1.8	3	5.5	9.5	12.8	19	26	39
	90	0	0.3	0.8	2	5	8	14	19	28	39	55
1 1/2"	30	0	0.3	0.6	1.6	3	5	7.5	11	14	17	20
	60	0	0.4	0.8	2.5	4	8	13	19	27	40	52
	90	0	0.4	0.9	3.5	7	13	20	31	42	63	78
2"	30	0	0.4	1.2	3.8	6	10	15	23	31	43	60
	60	0	0.4	1.5	4.6	9	16.5	27	39	55	83	110
	90	0	0.5	2	6	12	22	35	45	70	105	135
2 1/2"	30	0	0.4	1	4	8	12	18	28	37	62	75
	60	0	0.4	1.5	5	10	21	34	53	75	103	150
	90	0	0.5	1.7	7	14	28	48	70	106	160	218
3"	30	0	0.5	1.2	4	8	14	23	33	46	65	82
	60	0	0.5	2.5	6	14	25	40	65	91	128	165
	90	0	0.7	3.5	8	18	35	60	90	135	205	310
4"	30	0	0.6	2	6	15	29	48	71	100	130	159
	60	0	0.7	3	11	25	40	59	90	141	212	356
	90	0	1	3.5	16	40	75	125	190	295	442	670
6"	30	0	0.9	3.2	14	33	60	103	155	220	280	350
	60	0	2	5	22	60	110	190	285	416	586	800
	90	0	3	8	35	90	160	280	425	650	970	1480

FL	0	0.96	0.95	0.94	0.93	0.92	0.9	0.88	0.86	0.82	0.75
Xt	0	0.98	0.77	0.71	0.67	0.64	0.63	0.62	0.55	0.43	0.4

Pressure vs. Temperature Charts 1" - 6"



NOTE: Dotted line shows the rating for valve body. Solid line shows the rating for valve seat. Both ratings need to be consulted when determining the limitation of the valve for specific application. Consult factory for other seat material.