



SSV (Stainless Steel) Ball Valves

- 1/4" - 1": Female NPT Thread, 2000 CWP (psig). Cold Non-Shock. (See referenced P/T chart)
- 1-1/2" - 2": Female NPT Thread, 1500 CWP (psig). Cold Non-Shock. (See referenced P/T chart)
- 2-1/2" - 3": Female NPT Thread, 1000 CWP (psig). Cold Non-Shock. (See referenced P/T chart)

FEATURES

- Investment cast components
- Reinforced seats
- Mounting pad for easy actuator mounting
- Blow-out-proof stem design
- Adjustable packing gland
- Stainless Steel lever and nut
- Fire tested API 607, 6th edition (Requires "24" suffix)
- Meets NACE MR0175 (2000) & MR0103 (2012)
- CSA/CAN 3.16-M88 (2009) (Requires "01" suffix)
- NSF/ANSI 61 (2010) Section 8, Annex F & G
- NSF-372, Drinking Water System Components - Lead Content

STANDARD MATERIAL LIST

	PART	MATERIAL
1	Lever and grip	304 SS w/vinyl
2	Stem packing	MPTFE
3	Stem bearing	RPTFE
4	Ball	A276-316 Stainless Steel
5	Seat (2)	RPTFE
6	Retainer	A351-CF8M Stainless Steel
7	Gland nut	A276-316 Stainless Steel
8	Stem	A276-316 Stainless Steel
9	Lever nut	18-8 Stainless Steel
10	Body seal	PTFE
11	Body	A351-CF8M Stainless Steel

OPTIONS AVAILABLE:

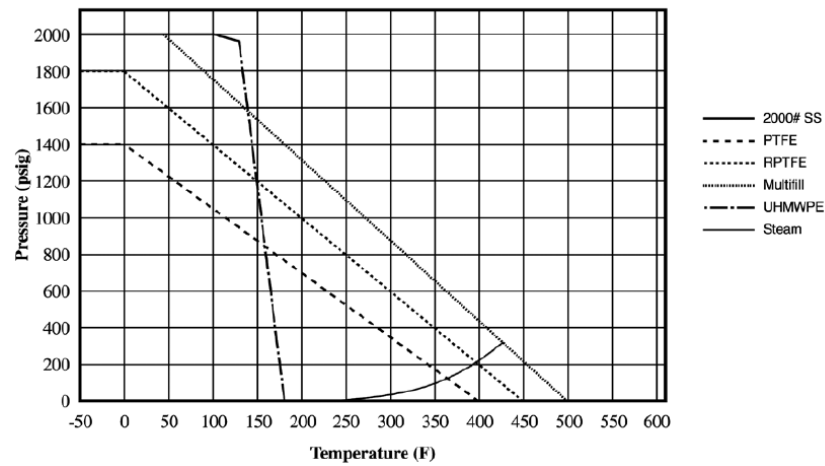
OPTION	SIZES
Standard Configuration	All
BSPP (Parallel) Thread Connection	1/4" to 3"
BSPT (Tapered) Thread Connection	1/4" to 3"
Stem Grounded	1/4" to 3"
2.25" CS Stem Extension	1/4" to 3"
Steel Tee Handle	1/4" to 2"
90° Reversed Stem	1/4" to 3"
Side Vented Ball (Uni-Directional)	1/4" to 2"
Wheel Handle, Steel	1/4" to 2"
Chain Lever - Vertical	3/4" to 2"
Lock Plate	1/4" to 2"
UHMWPE Trim (Non-PTFE)	1/4" to 3"
Graphite Packing	1/4" to 3"
SS Latch-Lock Lever & Nut	1/4" to 3"
Cam-Lock and Grounded	1/4" to 2"
SS Tee Handle & Nut	1/4" to 2"
PTFE Trim	1/4" to 3"
SS Hi-Rise Locking Wheel Handle, SS Nut	1/4" to 2"
Cyl-Loc and Grounded	1/4" to 2"
Seal Welded	1/4" to 2"
Less Lever & Nut	1/4" to 3"
Latch Lock Lever - Lock in Closed Position Only	1/4" to 3"
SS Latch Lock Oval Handle	1/4" to 2"
SS Oval Handle (No Latch) & Nut	1/4" to 2"
No Lubrication. Assembled Dry.	1/4" to 3"
2.25" CS Locking Stem Extension	1/4" to 3"
Oxygen Cleaned	1/4" to 3"
Chain Lever - Horizontal	3/4" to 2"
Static Grounded Ball & Stem	1/4" to 3"
250# Steam Trim	1/4" to 3"

Call for specified stem and seal options.

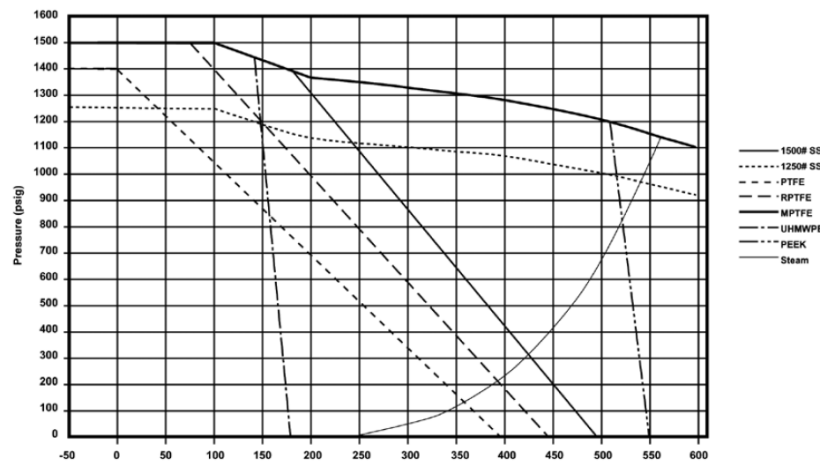


Pressure Temperature

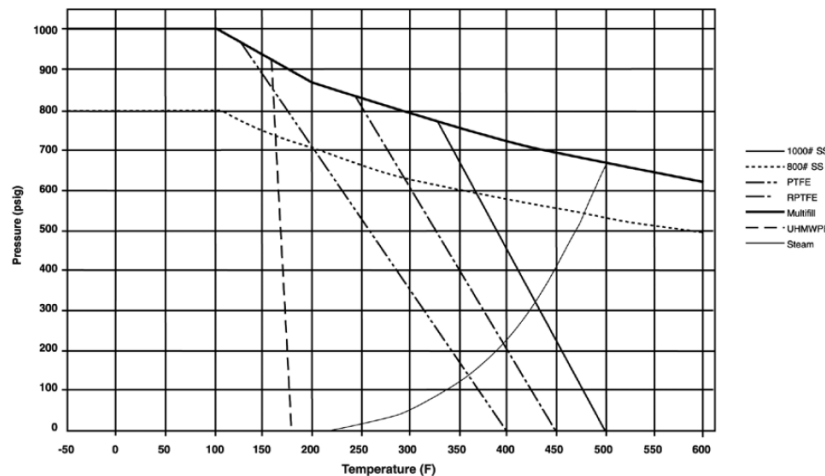
2000# SS Chart



1500# SS Chart



1000# SS Chart





Control Valve Close-off Rating Charts

Two-Way Valves			CLOSE-OFF RATING (PSI Differential)**								
			Type A Non-Spring Return Motors (Actuator Type)						Type A Spring Return Motors (Actuator Type)		
			EN44	EN88	EN132	EN221	EN310	Dual EN310	ES62	ES142	Dual ES142
NPT	CV	Model # [2 or 3-way] - [valve size] - [Cv]									
1/2"	*	2-050-Cv-SSV	123	212	373	600	600	-	169	401	600
1/2"	15	2-050-015-SSV	123	212	373	600	600	-	169	401	600
3/4"	30	2-075-030-SSV	-	212	373	600	600	-	169	401	600
1"	43	2-100-043-SSV	-	117	232	388	545	600	-	250	500
1-1/4"	48	2-125-048-SSV	-	-	99	165	233	466	-	107	320
1-1/2"	84	2-150-084-SSV	-	-	-	132	186	336	-	85	170
2"	108	2-200-108-SSV	-	-	-	123	174	348	-	80	160
2-1/2"	190	2-250-190-SSV	-	-	-	-	-	139	-	-	-
3"	370	2-300-370-SSV	-	-	-	-	-	139	-	-	-

Two-Way Valves			CLOSE-OFF RATING (PSI Differential)**								
			Type B Non-Spring Return Motors (Actuator Type)								
			EN53	EN70	EN140	EN210	EN280	Dual EN280	ES70	ES177	Dual ES177
NPT	CV	Model # [2 or 3-way] - [valve size] - [Cv]									
1/2"	*	2-050-Cv-SSV	148	199	395	600	-	-	199	499	600
1/2"	15	2-050-015-SSV	148	199	395	600	-	-	199	499	600
3/4"	30	2-075-030-SSV	100	133	266	450	600	-	133	334	600
1"	43	2-100-043-SSV	-	93	186	279	372	600	93	234	469
1-1/4"	48	2-125-048-SSV	-	-	105	158	210	420	-	133	266
1-1/2"	84	2-150-084-SSV	-	-	84	125	168	332	-	106	212
2"	108	2-200-108-SSV	-	-	78	117	157	314	-	99	198
2-1/2"	190	2-250-190-SSV	-	-	-	-	-	125	-	-	-
3"	370	2-300-370-SSV	-	-	-	-	-	125	-	-	-

Notes:

* Specify Cv in closest number when ordering reduced Cv (i.e., .5, 1, 2, 3... up to 5 for three-way and 9 for two-way).

**All close-offs listed above are based on regularly modulated valves.

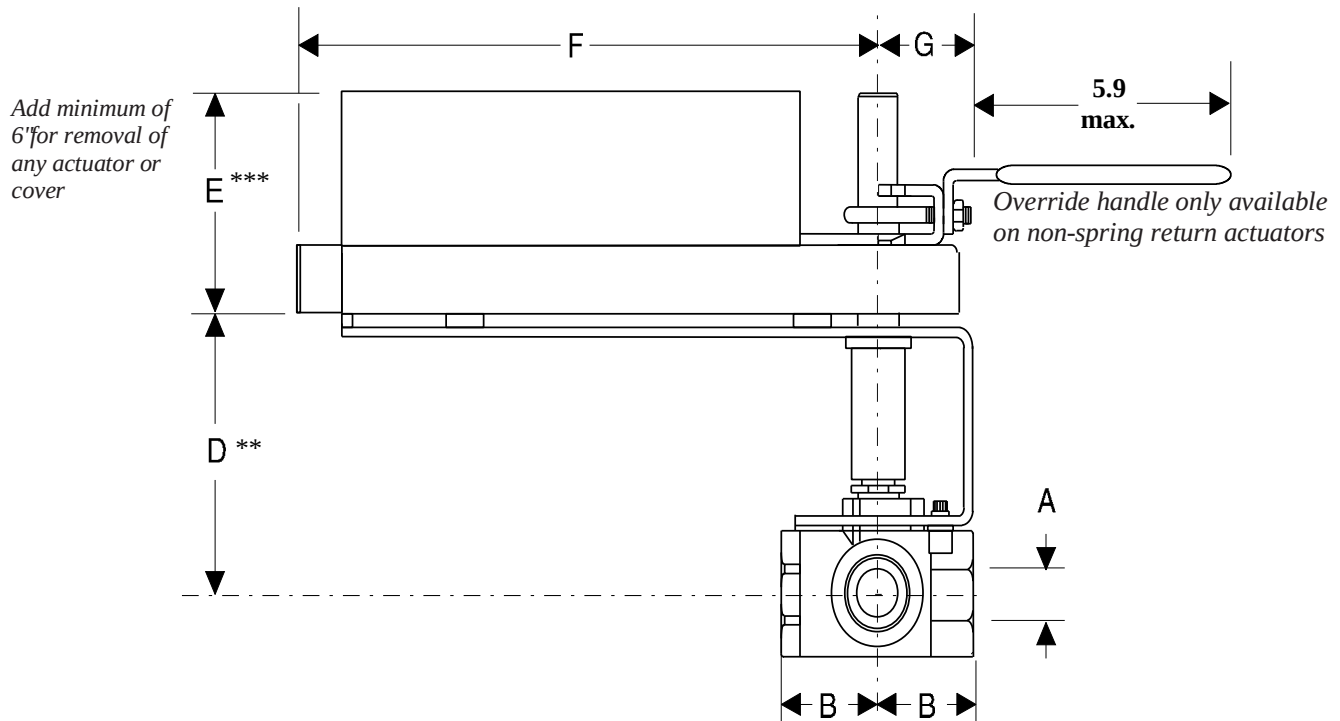
– On 3/4" reduced port 2-way ball valves, the Cv can also be set for a Cv of 11 or 17.

– Add "-SSV-HT" to end of model number for steam applications.

– Manual override handle is standard on larger non-spring models and optional on EN44 & EN88 models.



Two –Way Commercial Electronic SSV Stainless Body Ball Valves* (1/2” through 2”) Dimensions



Two-Way Valve					
Size	Cv	Model No.	Dimensions (inches)		
			A	B	D**
1/2"	****	2-050-Cv-SSV	0.5	1.1	3.1
1/2"	15	2-050-015-SSV	0.5	1.1	3.1
3/4"	30	2-075-030-SSV	0.7	1.5	3.3
1"	43	2-100-043-SSV	0.9	1.7	3.4
1-1/4"	48	2-125-048-SSV	1.00	2.00	4.1
1-1/2"	84	2-150-084-SSV	1.30	2.20	4.4
2"	108	2-200-108-SSV	1.50	2.70	5.9

Actuator Selection Chart				
Actuator Type	Dimensions (inches)			
	E***	F	G	H†
Type A Spring Return				
ES62	3.8	6.4	1.7	3.2
ES142	3.8	8.8	2.3	4.0
Type A Non-Spring Return				
EN44/88	2.4	3.8	1.7	2.8
EN132	3.8	6.4	1.7	3.2
EN221	3.8	8.8	2.3	4.0
Type B Spring Return				
ES70	3.8	5.9	1.2	4.0
ES89/177	3.8	8.2	2.2	4.0
ES140	3.8	7.7	2.2	4.6
Type B Non-Spring Return				
EN53	3.8	4.8	1.2	4.2
EN70/140	3.8	4.9	1.2	4.0
EN210/280	3.8	4.9	1.2	4.0

Notes:

* See Actuator Selection Chart (AC-A-1&2 and AC-B-1&2) and Control Valve Close-off Rating Chart (BV-SSV-3) to select actuator.

** 1/2" - 1" Ball Valves: Add 2.3 inches to dimension "D" for "-HT" applications.

1-1/4" - 2" Ball Valves: Add 4.0 inches to dimension "D" for "-HT" applications.

*** 1/2" - 1" Ball Valves: Add 3" to dimension "E" for cover removal on Type B actuators.

1-1/4" - 2" Ball Valves: Add 4.0 inches to dimension "E" for Dual actuator applications.

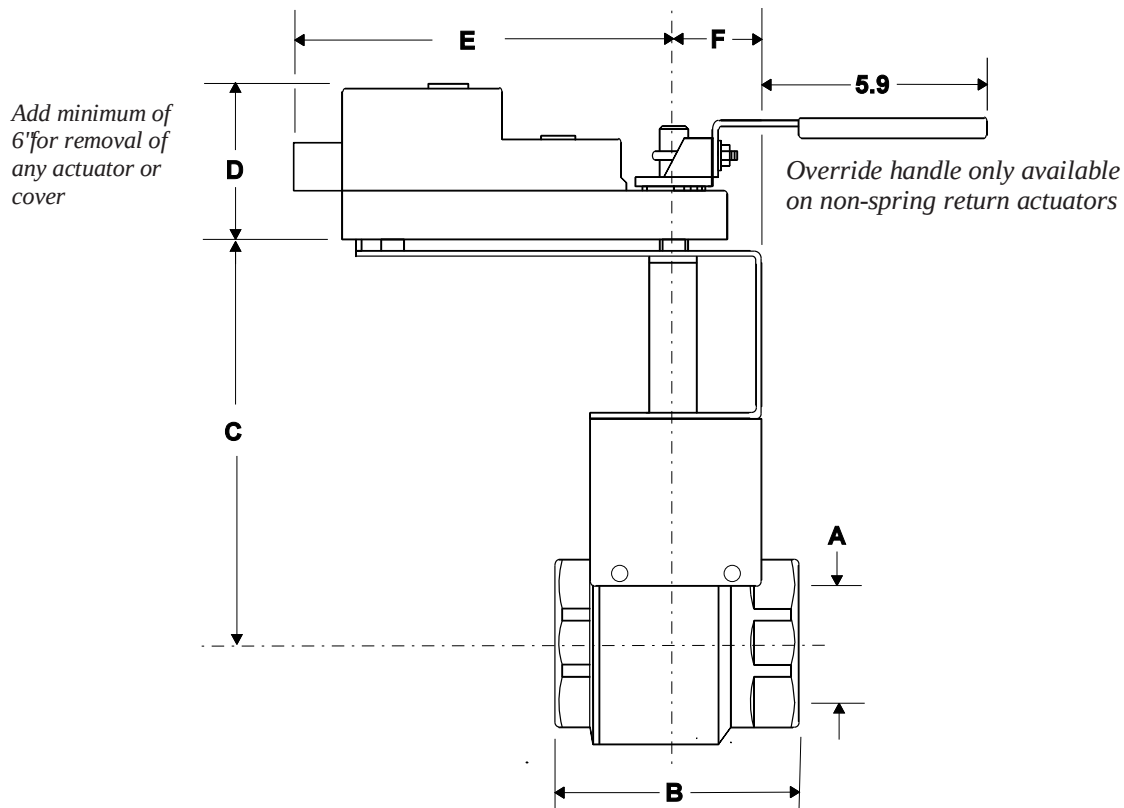
**** Limited Cv set to specifications (i.e.: .5, 1, 2, 3...).

† "H" dimension is width of motor.

– Most assemblies are available with an optional NEMA 4/4X type housing. See applicable data sheets for details.



Two –Way Commercial Electronic SSV Stainless Body Ball Valves* (2-1/2” through 3”) Dimensions



Two-Way Valve					
Size	Cv	Model No.	Dimensions (inches)		
			A	B	C**
2-1/2"	190	2-250-190-SSV	2.5	6.8	8.9
3"	370	2-300-370-SSV	2.5	6.8	8.9

Actuator Selection Chart				
Actuator Type	Dimensions (inches)			
	D***	E	F	G†
Type A Spring Return				
ES142	3.8	8.8	2.3	4.0
Type A Non-Spring Return				
EN310	3.8	8.8	2.3	4.0
Type B Spring Return				
ES140	3.8	7.7	2.2	4.6
ES177	3.8	8.2	2.2	4.0
Type B Non-Spring Return				
EN210/280	3.8	4.9	1.2	4.0

Notes:

* See Actuator Selection Chart (AC-A-1&2 and AC-B-1&2) and Control Valve Close-off Rating Chart (BV-SSV-3) to select actuator.

** Dimensions in chart are valid for both standard and “-HT” applications.

*** Add 4.0 inches to dimension “D” for Dual actuator applications.

† “G” dimension is width of motor.

– Most assemblies are available with an optional NEMA 4/4X type housing. See applicable data sheets for details.