



SERIES 8000/8100/8300 THREADED BODY BALL VALVES 1/4"-2"









THREADED BODY BALL VALVE SELECTION GUIDE

	Series 8000	Series 8100	Series 8300
Threaded Body Ball Valve Model		VSI	
Size Range	1/4"-2"	1/2"-2"	1/4''-2''
Туре	2-Way	2-Way	3-Way
Port		Full Port	
Pressure Rating		1000 WOG	
Leakage		ANSI FCI 70-2 Class V	
Temperature Rating		-50°F to +450°F	
End Connection		NPTF per ANSI B1.20.	1
Body Material	Stainless Steel 316	Stainless Steel 316 or Carbon Steel	Stainless Steel 316
Blowout Proof Stem	\checkmark	\checkmark	\checkmark
ISO 5221 Actuator Mount	×	\checkmark	\checkmark
Available Locking Lever	\checkmark	\checkmark	\checkmark
Adjustable Stem Packing	\checkmark	\checkmark	\checkmark
Anti-Static Device	×	×	\checkmark
Data Pages	Pages 3-4	Pages 5-6	Pages 7-8
Pressure/Temp		Page 9	
Operating Torque	-	Page 9	Page 9
Flow Paths	-	-	Page 10
Flow Coefficients (Cv)		Page 10	

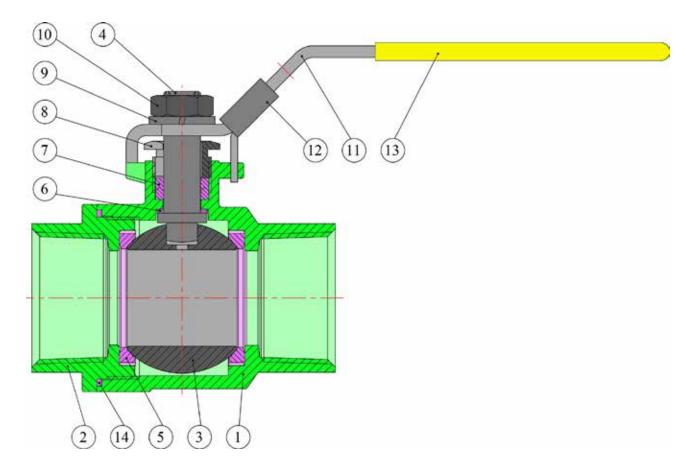
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Threaded Body Ball Valves

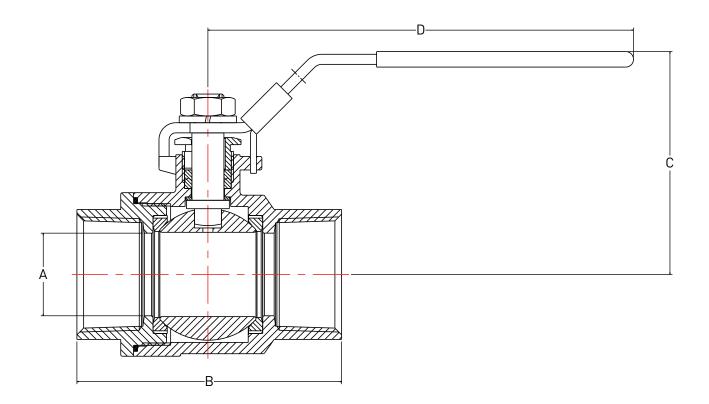
MATERIALS OF CONSTRUCTION SERIES 8000



Item	Description	Materials Available	Standard	QTY
1	Body	Stainless Steel 316	ASTM A351 CF8M	1
2	End Cap	Stainless Steel 316	ASTM A351 CF8M	1
3	Ball	Stainless Steel 316	ASTM A351 CF8M	1
4	Stem	Stainless Steel 316	ASTM A276 316	1
5	Seat	RPTFE	Commercial	2
6	Thrust Washer	PTFE	Commerical	1
7	Stem Packing	PTFE	Commercial	1 Set
8	Gland Nut	Stainless Steel 304	ASTM A276 304	1
9	Split Washer	Stainless Steel 304	Commercial	1
10	Nut	Stainless Steel 304	ASTM F594M 304	1
11	Handle	Stainless Steel 304	Commercial	1
12	Lock Pad	Stainless Steel 304	Commercial	1
13	Handle Cover	Vinyl	Commercial	1
14	Body Gasket	PTFE	Commercial	1
NS	Tag	Aluminum	UV Screen Printed	1



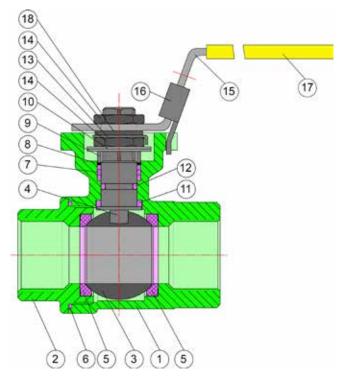
DIMENSIONS SERIES 8000



SIZE	Α	В	С	D	WEIGHT (LBS)	PART NUMBER
1/4"	0.39	1.93	1.71	3.23	0.25	¼"S8000-S2H
³ /8″	0.49	1.93	1.71	3.23	0.35	³ / ₈ "S8000-S2H
1/2"	0.63	2.31	1.89	3.23	0.55	½"S8000-S2H
3/4"	0.79	2.70	2.25	4.02	0.85	¾"S8000-S2H
1"	0.96	3.09	2.65	5.00	1.41	1"S8000-S2H
11⁄4"	1.26	3.67	2.90	5.00	2.00	1¼"S8000-S2H
11⁄2"	1.50	4.06	3.33	6.38	3.00	11/2"S8000-S2H
2"	1.97	4.84	3.64	6.38	4.00	2"S8000-S2H



MATERIALS OF CONSTRUCTION SERIES 8100

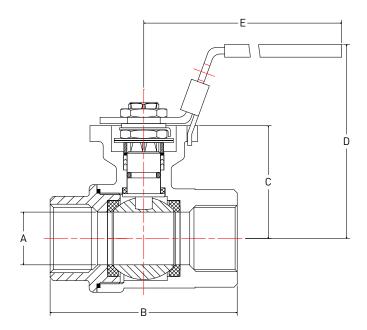


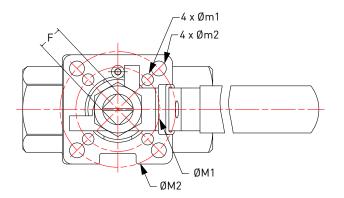
ltem	Description	Materials Available	Standard	QTY	
1	Dedu	Stainless Steel 316	ASTM A351 CF8M	1	
I	Body	Carbon Steel	ASTM A216 WCB	— 1	
2	End Cap	Same as Body		1	
3	Ball	Stainless Steel 316	ASTM A351 CF8M	1	
4	Stem	Stainless Steel 316	ASTM A276 316	1	
5	Seat	RPTFE	Commercial	2	
6	Body Gasket	PTFE	Commercial	1	
7	Stem Packing	PTFE	Commercial	1 Set	
8	Stem Protector	50% PTFE/50% SS316	Commercial	1	
9	Packing Sleeve	Stainless Steel 304	Commercial	1	
10	Belleville Washer	Stainless Steel 301	Commercial	2	
11	Thrust Washer	PTFE	Commerical	1	
12	0-Ring	Viton	Commercial	1	
13	Lock Ring	Stainless Steel 304	Commercial	1	
14	Nut	Stainless Steel 304	ASTM F594M 304	2	
15	Handle	Stainless Steel 304	Commercial	1	
16	Lock Pad	Stainless Steel 304	Commercial	1	
17	Handle Cover	Vinyl	Commercial	1	
18	Washer	Stainless Steel 304	ASTM A276 304	1	
18	Stop Screw	Stainless Steel 304	ASTM A276 304	1	
NS	Tag	Aluminum	UV Screen Printed	1	

Threaded Body Ball Valves



DIMENSIONS SERIES 8100

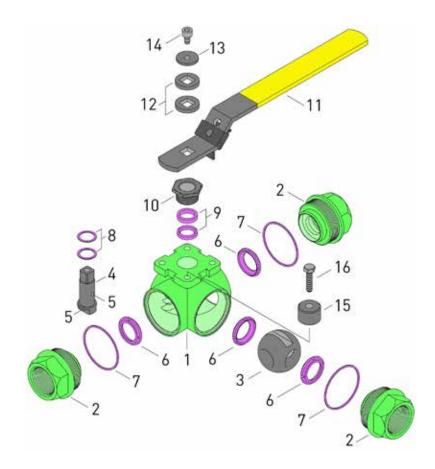




SIZE	Α	В	С	D	E	F	M1	m1	M2	m2	WEIGHT (LBS)	PART NUMBER
1/2"	0.59	2.56	1.61	2.52	6.50	0.354	1.42	0.22	1.97	0.26	0.65	1⁄2"S8100-S2H
3/4"	0.79	2.99	1.75	2.80	6.50	0.354	1.42	0.22	1.97	0.26	1.45	¾"S8100-S2H
1"	0.98	3.46	2.23	3.11	7.87	0.453	1.97	0.26	2.76	0.35	2.36	1"S8100-S2H
1¼"	1.26	3.82	2.16	3.66	7.87	0.453	1.97	0.26	2.76	0.35	3.50	1¼"S8100-S2H
11⁄2"	1.50	4.33	3.00	3.94	9.84	0.551	1.97	0.26	2.76	0.35	4.85	11⁄2"S8100-S2H
2"	2.00	5.28	3.30	4.25	9.84	0.551	1.97	0.26	2.76	0.35	7.30	2"S8100-S2H



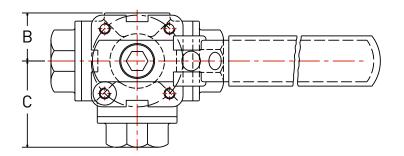
MATERIALS OF CONSTRUCTION SERIES 8300

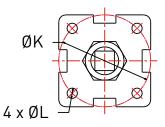


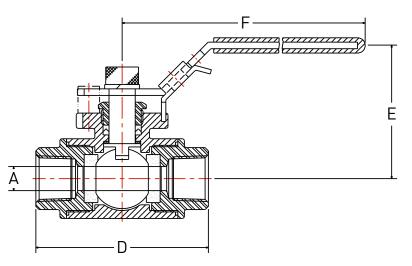
Item	Description	Materials Available	Standard	QTY
1	Body	Stainless Steel 316	ASTM A351 CF8M	1
2	End Cap	Stainless Steel 316	ASTM A351 CF8M	3
3	Ball	Stainless Steel 316	ASTM A351 CF8M	1
4	Stem	Stainless Steel 316	ASTM A276 316	1
5	Anti-Static Device	Stainless Steel 316	Commercial	2
6	Seat	RPTFE	Commercial	4
7	Body Gasket	PTFE	Commercial	3
8	Thrust Washer	PTFE	Commerical	2
9	Stem Packing	PTFE	Commercial	1 Set
10	Packing Gland	Stainless Steel 304	ASTM A276 304	1
11	Handle	Stainless Steel 304	Commercial	1
12	Quadrant Washer	Stainless Steel 304	Commercial	1 Set
13	Washer	Stainless Steel 304	Commercial	1
14	Lever Screw	Stainless Steel 304	ASTM F837M 304	1
15	Lever Stop	Stainless Steel 304	ASTM A276 304	1
16	Lever Stop Bolt	Stainless Steel 304	ASTM A593M 304	1
NS	Tag	Aluminum	UV Screen Printed	1

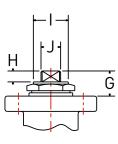


DIMENSIONS SERIES 8300







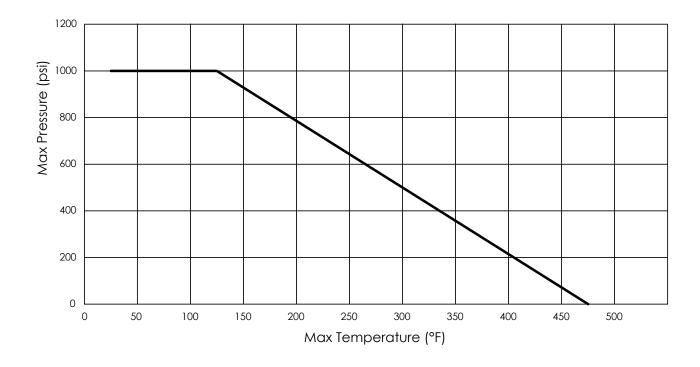


SIZE	Α	В	С	D	E	F	G	Н	1	J	Κ	L	WEIGHT (LBS)
1/4"	0.35	0.87	1.56	3.11	2.54	6.50	0.43	0.20	0.47	0.354	1.65	F04	1.63
³ /8″	0.35	0.87	1.56	3.11	2.54	6.50	0.43	0.20	0.47	0.354	1.65	F04	1.83
1/2"	0.43	0.87	1.56	3.11	2.54	6.50	0.43	0.20	0.47	0.354	1.65	F04	2.0
3/4"	0.59	1.10	1.73	3.35	3.05	7.87	0.51	0.28	0.59	0.433	1.97	F05	3.0
1"	0.79	1.22	2.13	4.25	3.19	7.87	0.75	0.45	0.59	0.433	1.97	F05	4.0
11⁄4″	0.98	1.34	2.44	4.88	3.46	9.06	0.93	0.61	0.59	0.433	1.97	F05	6.0
11⁄2″	1.26	1.57	2.66	5.31	3.66	9.84	0.93	0.61	0.59	0.433	2.76	F07	9.0
2"	1.57	1.89	3.23	6.46	4.13	10.24	0.96	0.63	0.73	0.551	2.76	F07	15.0



Threaded Body <u>Bal</u>l Valves

PRESSURE/TEMPERATURE RATINGS



OPERATING TORQUES

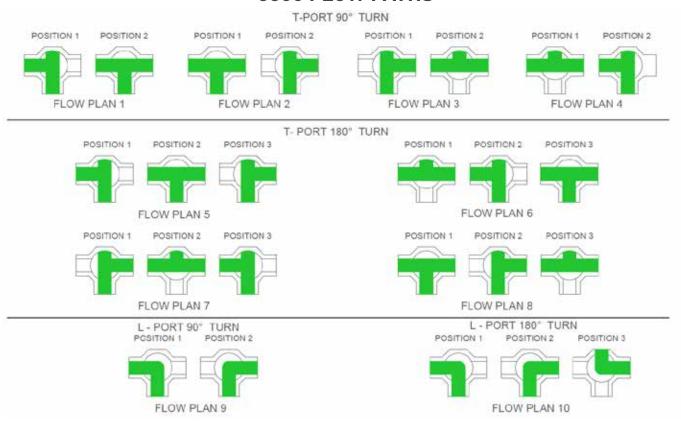
SIZE	58	100	S8300			
SIZE	500PSI	1000PSI	500PSI	1000PSI		
1/4"	-	-	35	46		
³ /8″	-	-	35	46		
1/2"	23	36	40	55		
3/4"	60	72	60	66		
1"	100	125	108	143		
11⁄4"	146	189	158	201		
11⁄2″	191	253	195	217		
2"	324	380	362	451		

Operating torque in in-lbs, no safety factor included. Torques are with water as operating fluid, dry media may require a higher safety factor

Threaded Body Ball Valves



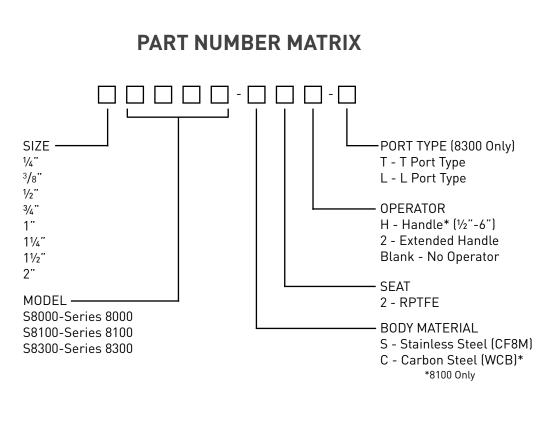
8300 FLOW PATHS



FLOW COEFFICIENTS

SIZE	S8000	S8100	S8300			
JIZE	50000	50100	T-Port	L-Port		
1/4"	7	-	5	3		
³ /8″	7	-	6	3		
1/2"	37	37	8	4		
3/4"	69	69	13	7		
1"	107	107	16	11		
1¼"	225	225	33	20		
11⁄2″	343	343	46	34		
2"	588	588	85	51		

Threaded Body Ball Valves



EXAMPLE: <u>1"S8100-S2H</u> A 1" Series 8100, SS316 body, RPTFE seat, with Handle operator

OTHER PART NUMBER INFORMATION

ASSEMBLIES

The part numbers above represent only the part number for the valve without any actuator or accessories. When purchased with an actuator as part of an assembly the entire part number will be formated as the valve part number, forward slash, then the actuator and accessory part numbers.

Example: 1"8100-S2H/C-SR083/ALS-100

The above valve is a 1" valve model S8100 with a C-SR083 spring return pneumatic actuator and ALS-100 switch-box.

Note: Series 8000 are not available with actuators or accessories - only available with lever operator. Consider Series 8100 where actuaotrs are required

MANUAL OPERATORS

All sizes are available with a locking lever operator, add a "H" suffix.

Threaded Body <u>Ball Valve</u>s



WARRANTY

This limited warranty applies in the United States to products manufactured by VSI, LLC. VSI, LLC. warrants the product purchased from it or its authorized reseller to be free from defects in material and workmanship under normal use during the two year warranty period from the date of its purchase. Other products not manufactured by VSI, LLC. which are provided as part of an assembly may carry additional warranties from that manufacturer or supplier.

During the warranty period, VSI, LLC. will repair or replace defective parts of the product, or, at VSI, LLC. sole option, issue a credit for the original purchase price of the product. Repaired or replaced product will be warranted hereunder only for the remaining portion of the original warranty period. All exchanged products under this Limited Warranty will become the property of VSI, LLC. A proper Return Material Authorization (RMA) number will have to be obtained for all products to be returned under this Limited Warranty. Any claim under this Limited Warranty must include a description of the problem encountered and any relevant information that may assist VSI, LLC. In the replication or resolution of the problem.

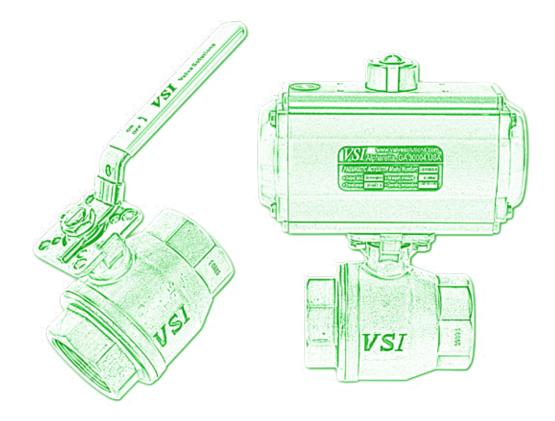
This Limited Warranty is transferable during its term to the end user of the product. Any transfer shall not extend or alter the terms of this Limited Warranty.

This Limited Warranty extends only to product spurchased from VSI, LLC. or its authorized reseller and does not extend to any product that has been damaged or rendered defective as a result of (a) modification, repair, alteration or improper installation by any person other than VSI, LLC. or its authorized representative; (b) unreasonable or improper use or storage, use beyond rated conditions, operation other than per VSI, LLC. or the manufacturer's instructions, or being otherwise subjected to improper maintenance, negligence or accident; or (c) any use of the product after purchaser has knowledge of any defect in the product.

The warranties provided above are in lieu of and exclude all other warranties, statutory, express or implied, including without limitation any warranty or merchantability or fitness for a particular purpose. VSI, LLC. expressly disclaims all warranties not stated in this limited warranty. Any implied warranties that may be imposed by law are limited to the terms of this limited warranty.

VSI, LLC. warranty liability shall not exceed the original purchase price of the defective product. VSI, LLC. is not liable for any damages caused by theproduct or other products or the failure of the product or other products to perform, including any lost profits, lost savings, incidental or consequential damages. VSI, LLC. is not responsible for charges resulting from the removal and/or replacement of the product. VSI, LLC. is not liable for any claims made by third parties or by the purchaser for a third party. This limitation applies whether damages are sought, or a claim is made, under the Limited Warranty or as a tort claim, product liability claim, contract claim, or any other claim. This limitation cannot be waived by any person. This limitation of liability will be effective even if VSI, LLC. or its authorized representative has been advised by the purchaser of the possibility of such damages.

NOTES





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