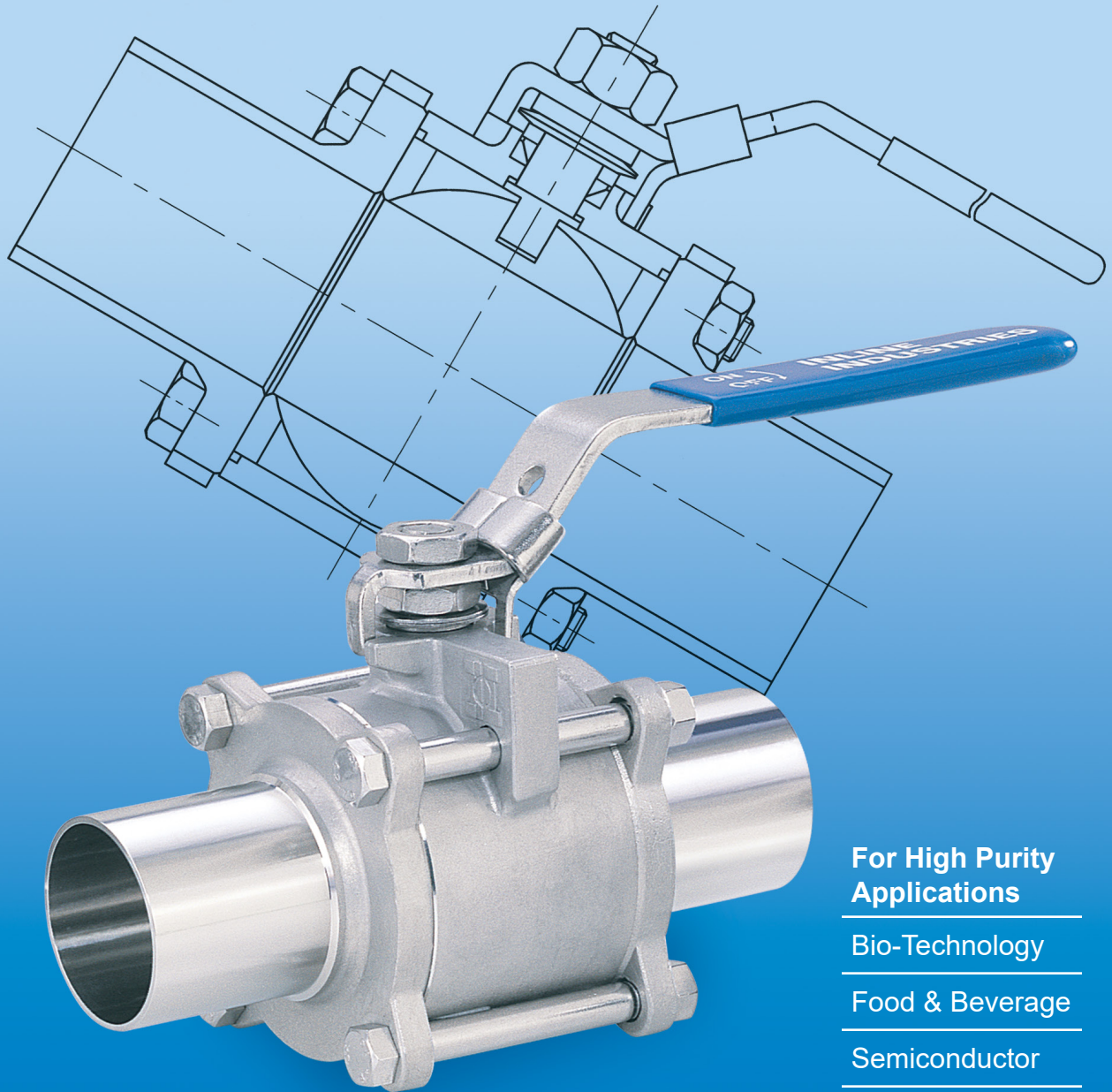


317F Sanitary Ball Valve

3-Piece Tube Full Port



**For High Purity
Applications**

Bio-Technology

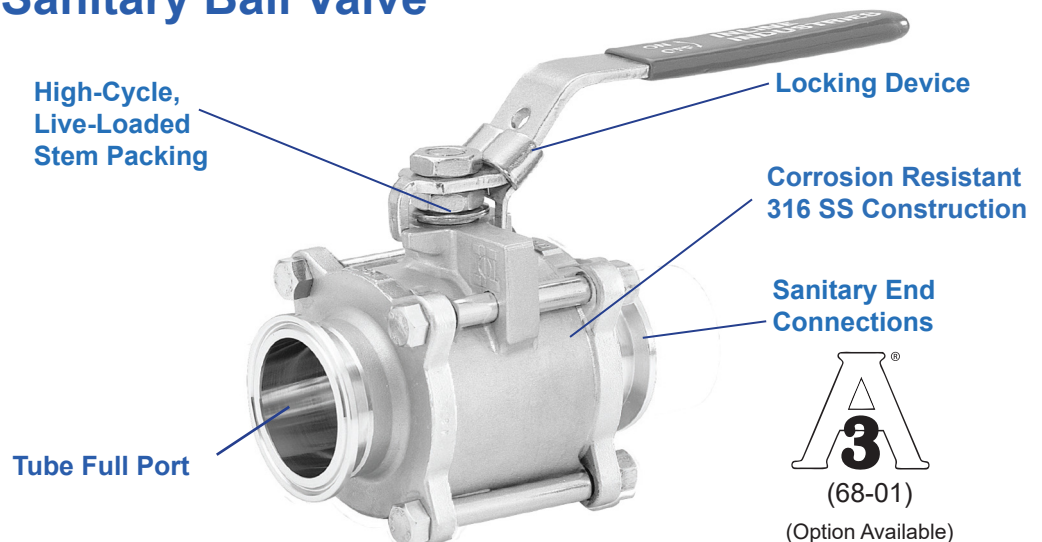
Food & Beverage

Semiconductor

Cosmetic

The 317F Series Sanitary Ball Valve

The 317F series combines tube full port construction with a variety of sanitary end connections to deliver outstanding performance in high purity applications. The valve's uniform bore diameter and polished internal surfaces improve flow characteristics and eliminate pooling of potential contaminants.

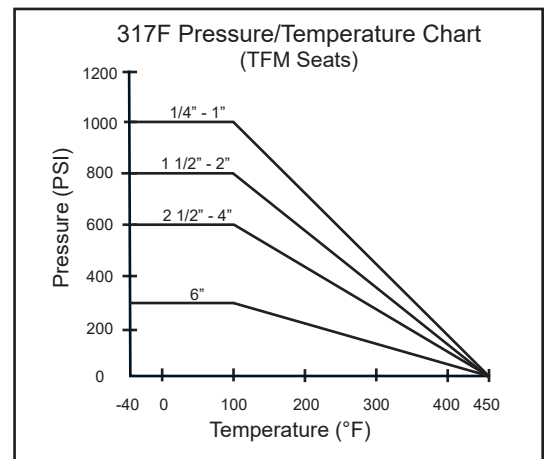


Standard Features and Benefits

- **Tube Full Port Design**
True tube full port construction eliminates pooling of process media and improves flow characteristics for greater efficiency
- **High-Cycle, Live-Loaded Stem Packing**
Ensures tight stem seal and extends service life
- **3-Piece Swing-in-Place Construction**
Provides easy access for in-line maintenance and repair
- **Made of Corrosion-Resistant 316 SS (A-351 Gr. CF8M) with 316L SS (A351 Gr. CF3M) Weld Ends**
One valve can be used for many service conditions
- **Blow-Out-Proof Stem**
Bottom loaded stem prevents removal when valve is in service
- **Investment Cast**
Improves dimensional control and reduces porosity
- **Locking Device**
Enables plant personnel to secure valve in open or closed position when manually operated
- **25 Ra Internal Surface Finish**

Options

- **Clamp, Tube Butt Weld, Ext. Tube Butt Weld, Compression, Flange, NPT, I-Line, Tank Bottom Ends Available**
- **Polish and Electropolish to Customer's Specification**
- **Cavity Filled Seats**
- **Meets 3A Standard 68-01 for Design, Materials, Marketing and Documentation**
- **Material Test Reports Available Upon Request**

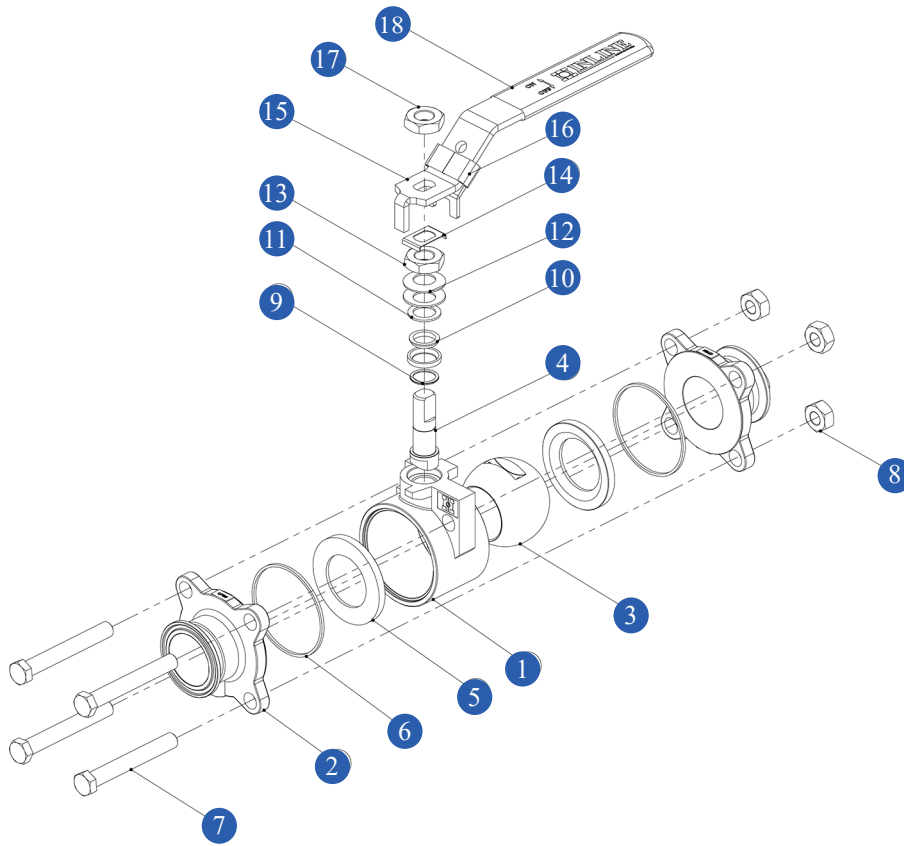


Operating Conditions

- **Temperature Range (TFM):**
-40°F ~ 450°F
- **Maximum Pressure (TFM):**
1000 PSI (1/4" - 1")
800 PSI (1 1/2" - 2")
600 PSI (2 1/2" - 4")
300 PSI (6")

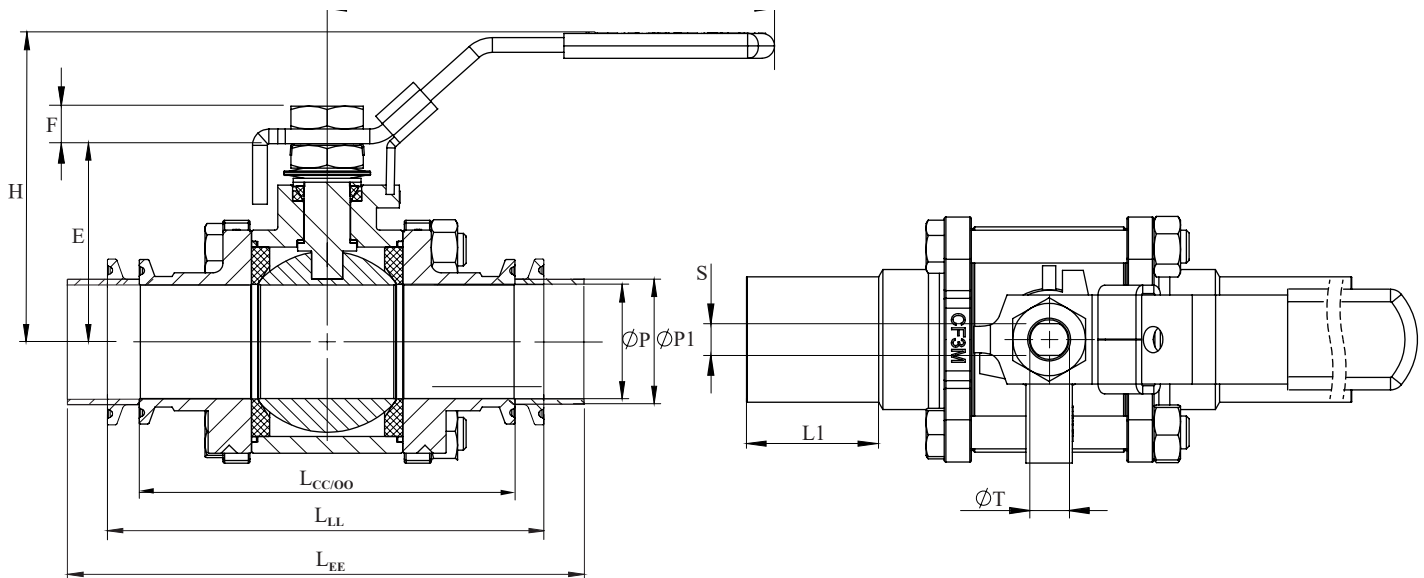
Specifications

- Valves designed and tested to ASME B16.34, API 598 and MSS SP-110, and meet ANSI/FCI 70-2 Class VI and MSS SP-61 leakage requirements
- All materials comply with applicable ASTM material specifications, and FDA, USDA and ASME BPE material requirements
- NSF/ANSI/CAN 61 & 372 certified
- All soft wetted parts comply with FDA CFR Title 21 Part 177
- **End connections**
Clamp to ASME BPE
NPT to ASME B1.20.1
Socket Weld to ASME B16.11
Butt Weld to ASME B16.25
Flanges to ASME B16.5



Valve Components			
No.	Part Name	Material	Qty
1	Body	CF8M	1
2	End Cap	CF8M	2
3	Ball	CF8M	1
4	Stem	316 SS	1
5	Seat	TFM	2
6	Body Seal	TFM	2
7	Body Bolt	304 SS	4*
8	Body Nut	304 SS	4*
9	Thrust Washer	TFM	1
10	Stem Packing Set	TFM	1
11	Packing Gland	304 SS	1
12	Belleville Washer	301 SS	2
13	Gland Nut	304 SS	1
14	Gland Nut Lock Washer	304 SS	1
15	Handle	304 SS	1
16	Handle Lock	304 SS	1
17	Handle Nut	304 SS	1
18	Handle Cover	Vinyl	1

*3" Valve: Body Studs x4, Split Lock Washers x8, Body Nuts x8.
4" Valve: Body Studs x6, Split Lock Washers x12, Body Nuts x12.



Dimensions (Inches)														
Size	L _{CC/OO}	L _{EE}	L _{LL}	L ₁	P	P ₁	M	H	E	F	S	T	C _v ¹	Weight (lbs) ²
1/4"	—	4.90	—	1.64	0.18	0.25	4.3	2.1	1.17	0.28	0.20	0.31	0.9	0.76
3/8"	—	4.90	—	1.64	0.31	0.38	4.3	2.1	1.17	0.28	0.20	0.31	3.2	0.76
1/2"	3.50	4.90	—	1.57	0.37	0.50	4.3	2.1	1.17	0.28	0.20	0.31	5.4	0.80
3/4"	3.50	5.61	4.00	1.57	0.62	0.75	5.1	2.3	1.35	0.36	0.26	0.38	17.5	1.29
1"	3.50	6.40	4.50	1.57	0.87	1.00	5.9	2.8	1.77	0.36	0.31	0.46	35.7	2.39
1 1/2"	4.50	7.20	5.50	1.57	1.37	1.50	7.6	3.7	2.34	0.45	0.38	0.54	101	4.93
2"	5.00	7.60	6.25	1.80	1.87	2.00	7.6	4.0	2.70	0.45	0.38	0.54	201	7.74
2 1/2"	6.75	10.00	—	1.80	2.37	2.50	12.3	5.6	3.54	0.68	0.47	0.77	330	16.14
3"	7.76	11.00	—	1.80	2.87	3.00	12.3	5.9	3.90	0.68	0.47	0.77	503	24.72
4"	9.51	12.00	—	2.01	3.83	4.00	12.6	6.9	4.76	0.95	0.59	0.93	948	44.05

6" CAD Drawings Available Upon Request
Please contact us for additional information

¹C_v value represents flow data to ISA 75.01.01 - 2007
²C_v value & weights based on Ext. Weld Ends



Oxygen Cleaning
& Electropolishing



Sanitary Products



Automation
Systems

317F Ordering Information

Example: 2" Full Port Sanitary Ball Valve with Lever Handle and Locking Device, 316 SS Body and Trim, TFM Seats and Seals, 316 SS Clamp Ends, 25 Ra Max Mechanical Polish (ID)

317F	D	6	6	6	6	M	M	CC	2	S	
Valve Series	Valve Size	Body Material	End Material	Ball Material	Stem Material	Seat	Seal	End Connection	Port	Ball Config.	Surface Finish
317F - Full Port 317C - Compression	2" 1/4" 3" 3/8" 5 1/2" 7 3/4" A 1" C 1 1/2" D 2" E 2 1/2" F 3" G 4" I 6"	6 - A351 Gr. CF8M (316)	3 - A351 Gr. CF3M (316L) 6 - A351 Gr. CF8M (316)	6 - 316 SS	6 - 316 SS	M - TFM T - PTFE J - Cavity Filled TFM K - Cavity Filled PTFE N - 1-Piece TFM Seat/Body Seal	M - TFM T - PTFE N - 1-Piece TFM Seat/Body Seal	C - Clamp O - Tube O.D. Butt Weld E - Ext. Tube O.D. Butt Weld K - Tank Bottom R - I-Line L - Long Clamp T - NPT (316) P - Compression (316) A - ASME 150# (316)	2 - 2 Way	S - Straight Port	None - 25 Ra Max Mech. Polish F1 - 20 Ra Max Mech. Polish F4 - 15 Ra Max Electropolish F5 - 20 Ra Max Electropolish F6 - 25 Ra Max Electropolish

*Available in tube butt weld, extended tube weld and compression ends only

Due to continuous product development, information may change without notice.



INLINE INDUSTRIES, INC.

9056 Garvey Avenue

Rosemead, CA 91770

Tel: (800) 568-8998

(626) 813-6188

Fax: (626) 813-6186

www.ballvalve.com

info@ballvalve.com

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