

334/336 Ball Valve

**3-Piece Full and Standard Port
ISO 5211 Direct Mount Pad**



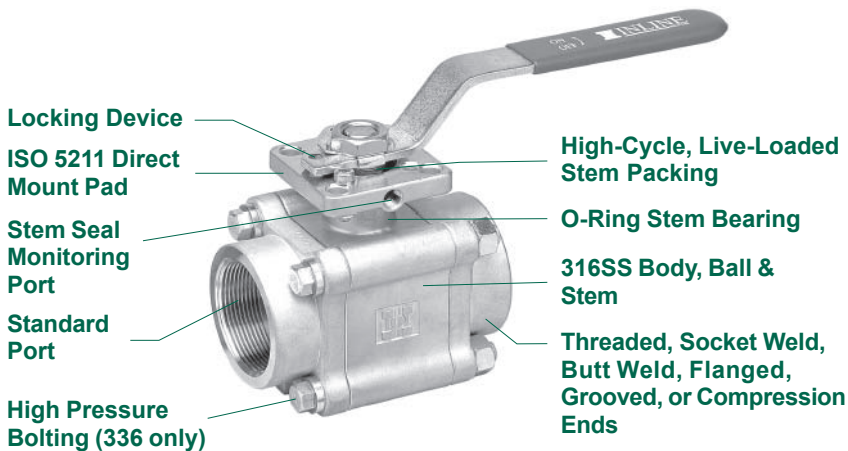
**For Automated &
Manual Service**

General Chemical

Industrial

Other Corrosion
Resistant Applications

The 334/336 Series Ball Valve

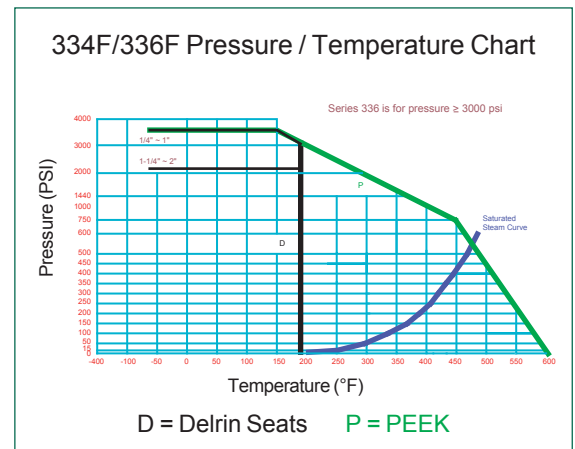
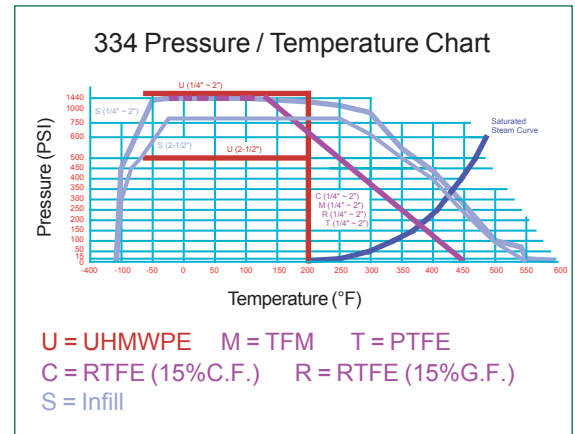


Standard Features and Benefits

- **Dual Pattern ISO 5211 Direct Mount Pad**
 No bracket or drive coupling needed for automation
 Dual pattern pad fits a wide range of actuator sizes
 Eliminates exposed moving parts for safer work environment
 Prevents side-loading and improves actuator positioning
- **High-Cycle, Live-Loaded Stem Packing**
 Spring energized stem seals self-adjust to compensate for wear, pressure/temperature changes ensuring a leak-tight seal and extending service life
- **O-Ring Stem Bearing**
 Maintains stem alignment
 Reduces packing side-loading and wear
 Enhances stem seal performance
- **Blow-Out-Proof Stem**
 Stem is bottom loaded to prevent removal when valve is in service
- **3-Piece Swing-In-Place Construction**
 Swing-out construction makes the valve easy to repair in line
- **Universal Valve Body**
 Same center section can be used for both manual and automated service
- **Lockout Capability**
 Enables plant personnel to secure valve in open or closed position when manually operated
- **Heavy Duty Construction**
- **Investment Cast**
 High quality investment castings improve dimensional control and reduce porosity; certified material test reports are available upon request
- **Anti-Static Stem**
- **Standard Seats and Seals Suitable for 150 PSI Saturated Steam**

Options

- End connections available in NPT, socket weld, butt weld, flanged or grooved, in 316SS or carbon steel
- High pressure seats and seals
- High temperature seats and seals capable of up to 400 psi of saturated steam



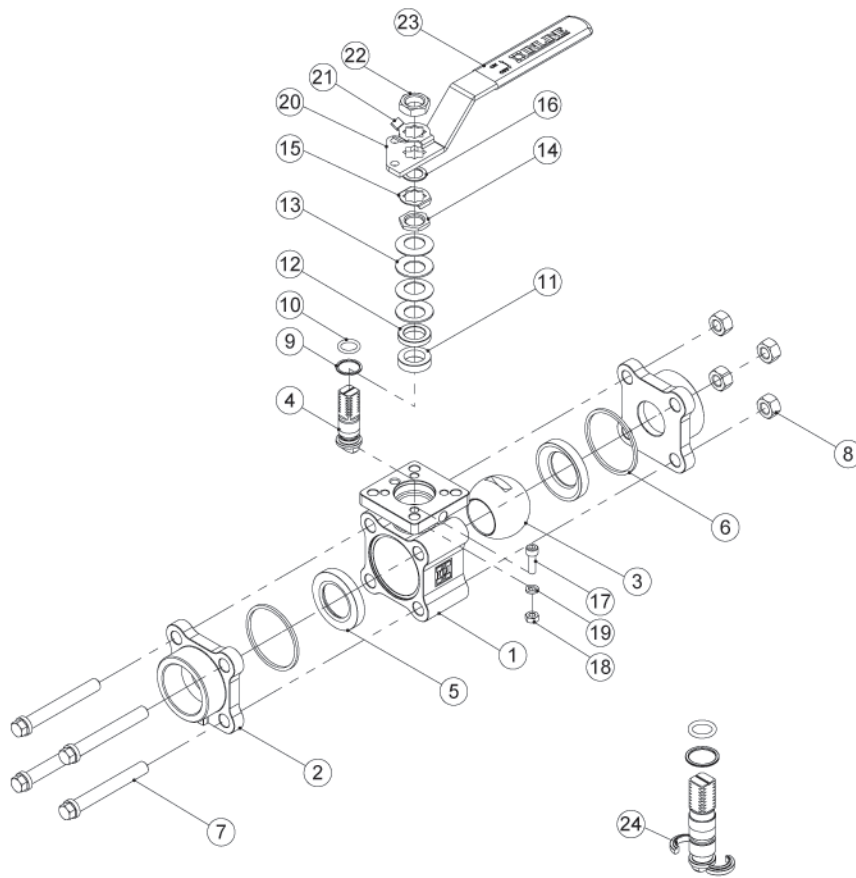
Operating Conditions

- Temperature range:
 -20°F ~ 600°F (depending on seats)
- Maximum pressure:
 334F/336F : 3600 PSI (Class 1500)
 (1/4" ~ 1")
 334F : 2160 PSI (Class 900)
 (1-1/4" ~ 2")

*Note: Series 336 is for pressures ≥ 3000 psi.
 It uses a 334 body with 410SS body bolts*

Specifications

- All valves designed and pressure tested to ANSI/ASME B16.34, MSS-SP-110 and API 598
- All materials comply with applicable ASTM material specifications
- End connections: All to B16.34;
 NPT to B1.20.1; socket weld to B16.11; butt weld to B16.25;
 flanged to B16.5

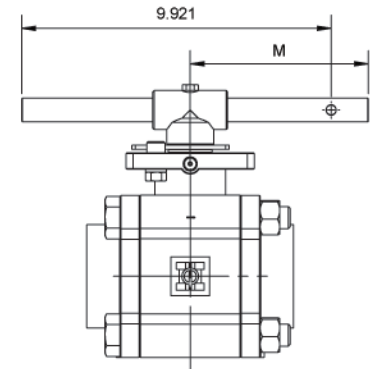
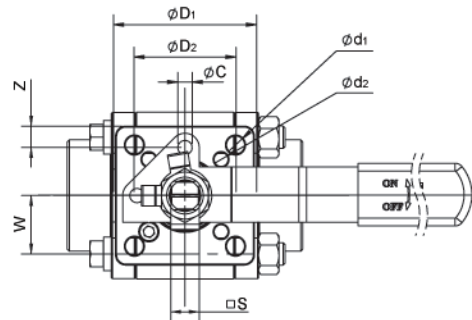
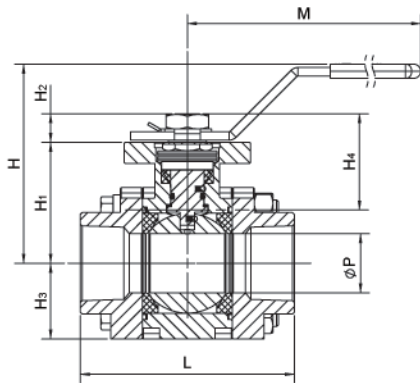


* 1/4" - 1/2" Full Port,
1/2" - 3/4" Std Port Only

Valve Components			
#	Part Name	Material	Qty.
1	Body	A351 Gr. CF8M	1
2	End Cap	A351 Gr. CF8M	2
3	Ball	316SS	1
4	Anti-Static Stem ¹	316SS 17-4	1
5	Seat	RTFE (15% C.F.)	2
6	Body Seal	PTFE	2
7	Body Bolt ²	304SS (334) 410SS (336)	4
8	Body Nut	304SS	4
9	Thrust Washer	PEEK	1
10	Stem O-Ring	Viton 90	1
11	Stem Packing Set	PTFE	1
12	Packing Gland	304SS	1
13	Belleville Washer	301SS	4
14	Gland Nut	304SS	1
15	Gland Nut Lock Washer	304SS	1
16	Stem Spacer	304SS	1
17	Stop Pin	304SS	1
18	Stop Pin Nut	304SS	1
19	Stop Pin Lock Washer	304SS	1
20	Handle	304SS	1
21	Handle Nut Lock Washer	304SS	1
22	Handle Nut	304SS	1
23	Handle Cover	Vinyl	1
24	Split Retaining Ring	316SS	2

¹ For Delrin or PEEK seats, the valve stem will be changed to 17-4

² Series 336 is for pressures \geq 3000. It uses a 334 body with 410SS body bolts



334F 2" & 334S 2-1/2"

Size		Dimensions (Inches)																	
334F/ 336F	334S/ 336S	L	M	P	H	H ₁	H ₂	H ₃	H ₄	D ₁	D ₂	d ₁	d ₂	C	S	W	Z	ISO 5211 Pattern	Wt. (lbs)
1/4	—	2.57	5.41	0.44	3.02	1.80	0.38	0.87	1.56	1.97	1.42	0.27	0.22	0.28	0.35	0.62	0.28	F03 / F05*	1.70
3/8	1/2	2.57	5.41	0.44	3.02	1.80	0.38	0.87	1.56	1.97	1.42	0.27	0.22	0.28	0.35	0.62	0.28	F03 / F05*	1.71
1/2	3/4	2.80	5.41	0.57	3.11	1.89	0.38	1.00	1.51	1.97	1.42	0.27	0.22	0.28	0.35	0.75	0.28	F03 / F05*	2.19
3/4	1	3.69	6.37	0.81	3.22	1.99	0.43	1.19	1.53	1.97	1.65	0.27	0.22	0.28	0.43	0.89	0.16	F03 / F05*	3.65
1	1 1/4	4.19	6.37	1.00	3.41	2.19	0.44	1.35	1.64	1.97	1.65	0.27	0.22	0.28	0.43	0.99	0.16	F03 / F05*	5.19
1 1/4	1 1/2	4.54	8.02	1.25	4.21	2.56	0.61	1.60	2.04	2.76	1.97	0.35	0.27	0.28	0.55	1.12	0.41	F05 / F07*	8.51
1 1/2	2	4.98	8.02	1.50	4.52	2.83	0.61	1.79	2.09	2.76	1.97	0.35	0.27	0.28	0.55	1.35	0.41	F05 / F07*	10.89
2	2 1/2	5.87	5.51	2.00	5.44	3.50	0.77	2.30	2.61	4.02	2.76	0.44	0.35	0.35	0.67	1.67	0.44	F07 / F10*	23.05

* Direct mount with stem adapter bushing



Automation Systems



Direct Mount Products

334 / 336 Ordering Information

Example: 2" 3-Piece Standard Port Direct Mount Ball Valve, ISO 5211 Direct Mount Pad with Lever Handle and Locking Device, 316SS Body and Trim, RTFE (15% C.F.) Seats, PTFE Seals, NPT Ends

Valve Series	Valve Size	Body Material	End Material	Ball Material	Stem Material	Seat	Seal	End Connection ¹	Port	Ball Config.
334S - Standard Port	2 [†] 1/4" 3 [†] 3/8" 5 1/2"	6 - A351 Gr. CF8M (316)	6 - A351 Gr. CF8M (316)	6 - A351 Gr. CF8M (316)	6 - A351 Gr. CF8M (316)	C - RTFE (15% C.F.) D - Delrin (PTFE Filled Acetal Homopolymer) P - PEEK (PTFE and Carbon Filled PEEK) S - Infill (Carbon, Carbon Fiber Filled Modified PTFE) R - RTFE (15% G.F.) T - PTFE U - UHMWPE	T - PTFE B - Buna N G - Graphite U - UHMWPE (Food Grade) Q - S Gasket TFE	T - NPT S - Socket Weld 1 - Butt Weld Sch. 10 4 - Butt Weld Sch. 40 8 - Butt Weld Sch. 80 G - Grooved A - ANSI 150# Flanged B - ANSI 300# Flanged Q - ANSI 600# Flanged P - Compression X - Other	2 - 2 Way	S - Straight Port
334F - Full Port	7 3/4" A 1"	2 - A216 Gr. WCB	3 - A351 Gr. CF3M (316L)	7 - 17-4						
336S [§] - Standard Port, High Pressure Bolting	B 1 1/4" C 1 1/2" D 2" E* 2 1/2"		2 - A216 Gr. WCB							
336F [§] - Full Port, High Pressure Bolting										
334C / 336C - Compression Ends										

[†] Full Port Only

* Standard Port Only

[§] 17-4 Stem Only

¹ Butt Weld ends are A351 Gr. CF3M (316L)

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



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