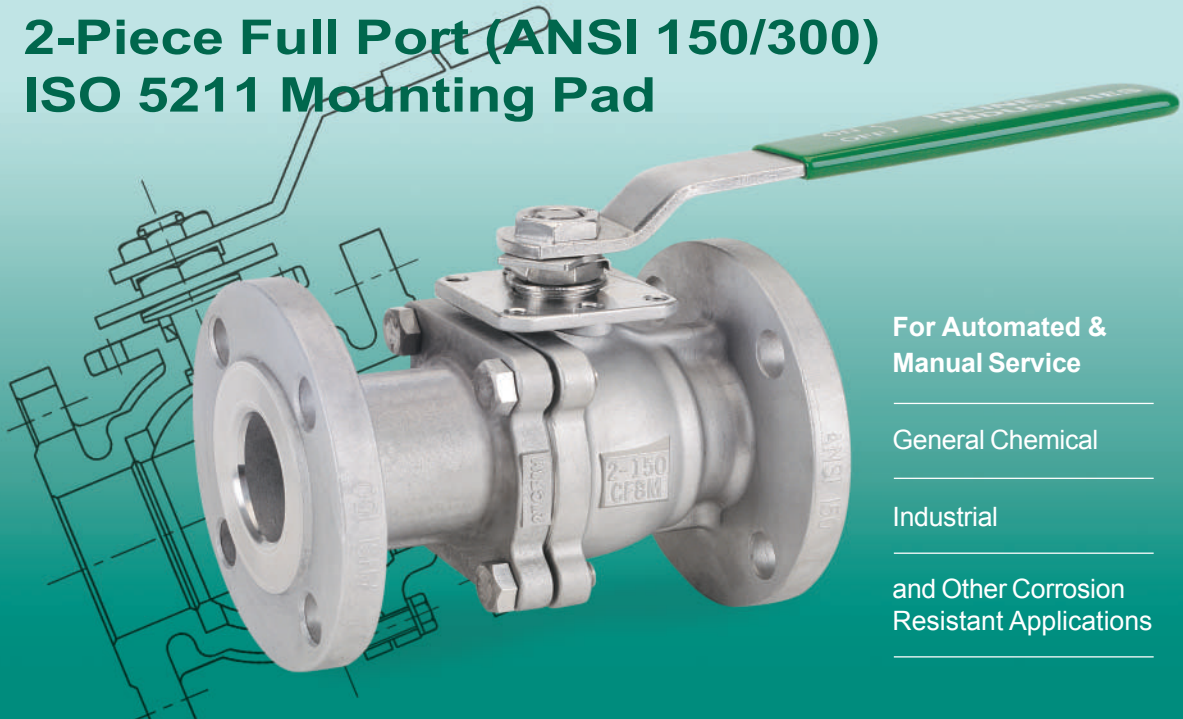


209F Flanged Ball Valve

2-Piece Full Port (ANSI 150/300)
ISO 5211 Mounting Pad



For Automated &
Manual Service

General Chemical

Industrial

and Other Corrosion
Resistant Applications

Standard Features and Benefits

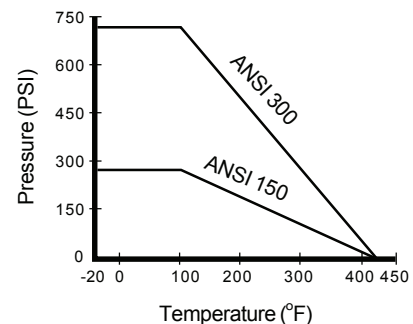
- **Full Port Design**
Full port construction improves flow characteristics for greater process efficiencies
- **Blow-Out-Proof Stem**
Stem is bottom loaded to prevent removal when valve is in service
- **Locking Device**
Enables plant personnel to secure valve in open or closed position when manually operated
- **High-Cycle, Live-Loaded Stem Packing**
Provides constant load on the stem seal and extends service life
- **Corrosion Resistant**
Made of 316 stainless steel (A351 Gr. CF8M) for greater chemical resistance and longer service life
- **Investment Cast (1/2" - 4")**
Improves dimensional control and reduces porosity
- **ISO 5211 Mounting Pad**

Options

- Carbon steel construction to NACE MR01.75
- Anti-static device



209F Pressure / Temperature Chart
(RTFE Seats)



Operating Conditions

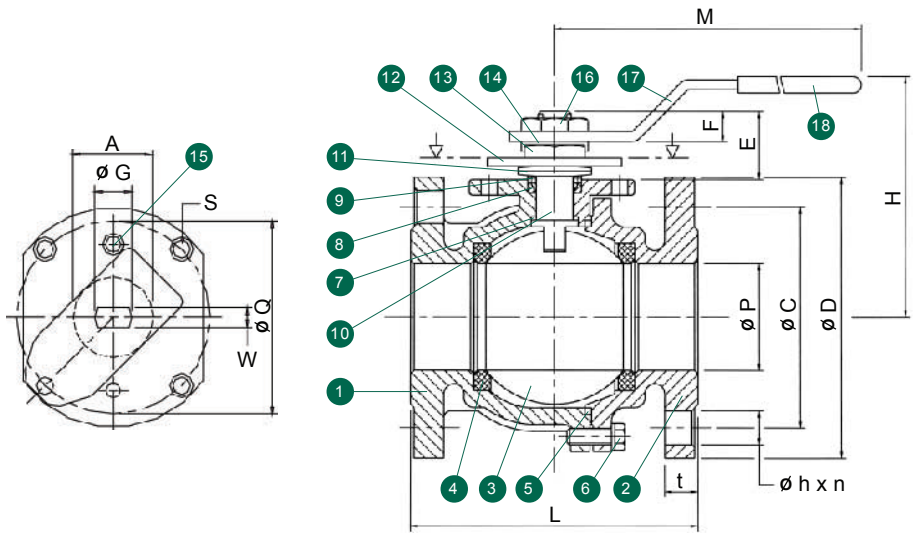
- Temperature range (RTFE):
-20°F ~ 420°F
- Maximum pressure (RTFE):
ANSI 150: 275 PSI WOG @ 100°F
ANSI 300: 720 PSI WOG @ 100°F

Specifications

- All valves shell and seat tested to ANSI/ASME B16.34 and API 598
- Length to ANSI B16.10,
Connection to ANSI B16.5

Valve Components			
#	Part Name	Material	Qty.
1	Body	A351 Gr. CF8M	1
2	End Cap	A351 Gr. CF8M	1
3	Ball	316SS	1
4	Seat	RTFE (15% C.F.)	2
5	Body Seal	PTFE	1
6	Bolt & Washer	304SS	n*
7	Thrust Washer	PEEK	1
8	Stem Packing Set	PTFE	1
9	Packing Gland	304SS	1
10	Stem	316SS	1
11	Belleville Washer	301SS	2
12	Stop Plate	304SS	1
13	Gland Nut	304SS	1
14	Gland Nut Lock Washer	304SS	1
15	Positioning Pin	304SS	1
16	Handle Nut	304SS	1
17	Handle	304SS	1
18	Handle Cover	Vinyl	1

* See table below



Dimensions (Inches)																								
Size	A	F	P	H	M	E	W	Q	S	G	L		End Flange (ANSI 150)				End Flange (ANSI 300)				Wt. (lbs)			
											ANSI 150	ANSI 300	D	Bolt Hole			t	D	Bolt Hole			t	ANSI 150	ANSI 300
														C	n	h			C	n	h			
1/2	1.00	0.47	0.59	2.56	5.51	0.59	0.26	1.65	M5	0.39	4.25	5.50	3.50	2.38	4	0.63	0.44	3.74	2.62	4	0.63	0.56	4.00	5.00
3/4	1.00	0.47	0.79	2.95	5.51	0.59	0.26	1.65	M5	0.39	4.62	6.00	3.96	2.76	4	0.63	0.44	4.61	3.25	4	0.75	0.63	5.00	7.00
1	1.15	0.61	0.98	3.34	6.69	0.72	0.38	1.97	M6	0.55	5.00	6.50	4.25	3.13	4	0.63	0.44	4.88	3.50	4	0.75	0.70	6.00	10.0
1 1/2	1.60	0.65	1.57	4.13	9.06	1.20	0.38	2.76	M8	0.71	6.50	7.50	5.00	3.88	4	0.63	0.62	6.14	4.51	4	0.75	0.81	12.0	19.0
2	1.60	0.65	1.97	4.53	9.06	1.20	0.38	2.76	M8	0.71	7.00	8.50	5.98	4.74	4	0.75	0.76	6.50	5.00	8	0.87	0.88	18.0	23.0
2 1/2	1.75	0.89	2.56	5.20	13.78	1.18	0.47	4.02	M10	0.79	7.50	9.50	7.01	5.49	4	0.75	0.88	7.48	5.87	8	0.87	1.00	27.0	35.0
3	1.75	0.89	3.15	5.75	13.78	1.18	0.47	4.02	M10	0.79	8.00	11.12	7.48	6.00	4	0.75	0.94	8.63	6.61	8	0.87	1.13	35.0	49.0
4	1.90	0.95	3.94	6.50	13.78	1.59	0.59	4.02	M10	0.94	9.00	12.00	9.02	7.50	8	0.75	0.94	10.00	7.87	8	0.87	1.25	58.0	81.0

209F Ordering Information

Example: 2" Full Port Ball Valve, Actuator Mounting Pad with Lever Handle and Locking Device, 316SS Body and Trim, RTFE (15% C.F.) Seats and PTFE Seats, ANSI 150# Flanged Ends

209F	20	6	C	T	A
Valve Series	Valve Size	Body and Trim Material	Seat	Seal	End Connection
209F - Full Port	04 1/2" 06 3/4" 10 1" 14 1 1/2" 20 2" 24 2 1/2" 30 3" 40 4"	6 - A351 Gr. CF8M Body (316) A351 Gr. CF8M Trim (316) 2 - A216 Gr. WCB Body A351 Gr. CF8M Trim (316)	C - RTFE (15% C.F.) F - 50% 316SS Filled PTFE S - Carbon, Carbon Fiber, Ekonol Filled PTFE U - UHMWPE	T - PTFE U - UHMWPE G - Grafoil	A - ANSI 150# Flanged B - ANSI 300# Flanged

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

Distributed by:



INLINE INDUSTRIES, INC.

4701-A Littlejohn Street
Baldwin Park, CA 91706
Tel: (626) 813-6188
Fax: (626) 813-6186
www.ballvalve.com
info@ballvalve.com

© 2003 Inline Industries. All rights reserved.

0310.1