

FLOATING BALL VALVE



High Performance Series EF - Flanged

The Original Floating Ball Valve Seat relies upon an interference fit to compress a solid plastic seal ring. The elastic properties of the plastic resist the induced compression and provide a seal against upstream pressure. The High-Performance Floating Ball Valves were developed to far exceed ASME B16.34 Standards.

FEATURES

- **Progressive Seal Technology™**
Evolutionary Seat Design with Enhanced Ball to Seat Interface
Patent No. US 10,801,626 B2 / International DM/212755/MX64197
- **Forged Bodies and Adapters**
- **Designed and tested to exceed ASME B16.34**
- **Optimized Stem Shaft Drivetrain System**
- **Up to CLASS 1500 ANSI Rating**

VALVE STANDARDS & MATERIALS

Flange Connections:

- B16.5

Valve Bore:

- API 6D/608

Socket Weld Ends:

- ASME B16.11

Pressure Tests:

- API 6D/API 598/ASME B16.34

Fire Safe Design:

- API 607

NACE Compliance:

- NACE MR-01-75 / ISO 15156

Quality System:

- ISO 9001-2015 / Q1

Fugitive Emission Design:

- ISO 15848-1/API/ANSI/ISA S 93.00.01

Markings:

- MSS - SP - 25 / ASME B16.34 / API 6D

End To End

- ASME B16.10

Buttweld Ends

- ASME B16.25



WEIGHT

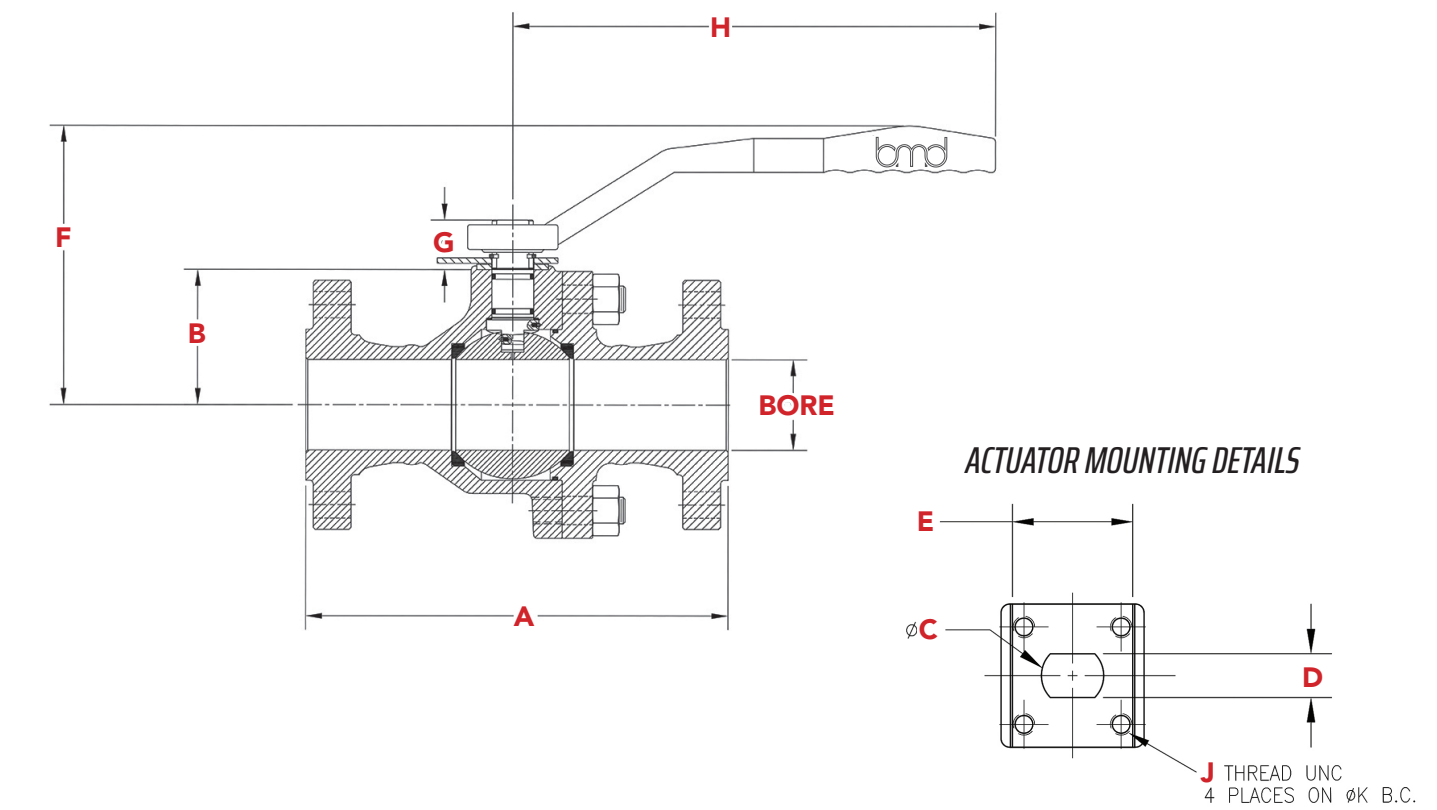
VALVE	SERIES EF BALL VALVE								
Weight (lbs).	1" FP	1.5" FP	2" RP	2" FP	3" RP	3" FP	4" RP	4" FP	6" RP
VALVE CL150	18	23	25	31	48	70	81	105	121
VALVE CL300	24	29	30	36	56	83	96	129	194
VALVE CL600	27	31	36	43	65	99	146	265	392
HANDLE CL150	1.1	1.6	1.6	1.6	1.6	6.0	6.0	6.0	6.0
HANDLE CL300	1.1	1.6	1.6	1.6	1.6	6.0	6.0	8.0	8.0
HANDLE CL600	1.1	1.6	1.6	1.6	1.6	8.0	8.0	8.0	8.0

CV VALUES

VALVE	SERIES EF BALL VALVE								
	1" FP	1.5" FP	2" RP	2" FP	3" RP	3" FP	4" RP	4" FP	6" RP
CL150	89	230	137	485	238	1380	635	2580	925
CL300	89	215	130	430	220	1220	610	2300	880
CL600	70	195	120	406	195	110	585	2100	800



SERIES EF BALL VALVE DIMENSIONS



VALVE	SERIES EF BALL VALVE								
Size (in)	1" FP	1.5" FP	2" RP	2" FP	3" RP	3" FP	4" RP	4" FP	6" RP
A CL150	5.00	6.50	7.00	7.00	8.00	8.00	9.00	9.00	10.50*
A CL300	6.50	7.50	8.50	8.50	11.12	11.12	12.00	12.00	15.88
A CL600 RF	8.50	9.50	11.50	11.50	14.00	14.00	17.00	17.00	22.00
A CL600 RTJ	8.50	9.50	11.62	11.62	14.12	14.12	17.12	17.12	22.12
B	1.78	2.72	2.72	3.25	3.25	4.48	4.48	5.33	5.33
C	0.73	0.91	0.91	0.91	0.91	1.37	1.37	1.49	1.49
D	0.465	0.636	0.636	0.636	0.636	0.850	0.850	0.960	0.960
E	1.55	1.75	1.75	1.75	1.75	2.38	2.38	2.75	2.75
F	4.72	6.20	6.20	6.75	6.75	9.25	9.25	10.20	10.20
G	0.95	1.05	1.05	1.05	1.05	1.64	1.64	1.70	1.70
H CL150	7.00	9.50	9.50	9.50	9.50	16.00	16.00	16.00	16.00
H CL300	7.00	9.50	9.50	9.50	9.50	16.00	16.00	22.00	22.00
H CL600	7.00	9.50	9.50	9.50	9.50	22.00	22.00	22.00	22.00
J	0.250	0.312	0.312	0.312	0.312	0.375	0.375	0.500	0.500
K	1.75	2.00	2.00	2.00	2.00	2.75	2.75	3.00	3.00
BORE	1.00	1.50	1.50	2.00	2.00	3.00	3.00	4.00	4.00

HOW TO ORDER

EXAMPLE MODEL NO. **EF - 21FR1SNHL**

EF SERIES FLANGED BOLTED BODY, 2" NOMINAL PIPE SIZE, 150 ANSI RATING, REDUCED PORT, RF END CONNECTION, STANDARD A105N/A350 LF2 BODY, 316SS NACE BALL AND STEM, NYLON (NYL11) SEAT, HNBR SEAL, AND LEVER OPERATOR

EF - 21FR1SNHL
SERIES

SERIES

EF - Flanged Bolted Body

NOMINAL PIPE SIZE

2 - 2"

3 - 3"

4 - 4"

6 - 6"

ANSI RATING

1 - 150

3 - 300

6 - 600

PORT SIZE

F - Full Port

R - Reduced Port

END CONNECTION

R - RF

J - RTJ

B - BW

BODY MATERIAL

1 - A105N/A350 LF2

BALL/STEM MATERIAL

C - CS 1 mil ENP Ball /Zinc stem Non NACE

S - 316SS NACE

SEAT MATERIAL

N - Nylon (NYL11)

D - Delrin

T - RTFM

P - Peek

SEAL MATERIAL

H - HNBR

V - Viton

L - LT HNBR

LV - LT Viton

OPERATOR

L - Lever

B - Bare

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bmd
and Distribution Company