

GWC ITALIA

Proven technology
for individual valve solutions
worldwide



**THREADED AND SOCKET WELD
FLOATING BALL VALVES**

SBV-1002

The logo for GWC Italia, featuring the letters 'GWC' in a large, bold, blue font, with 'ITALIA' in a smaller, blue font to the right.

GWC ITALIA

Worldwide Network

ITALY GROUP HEADQUARTERS, MANUFACTURING & SALES

GWC Italia S.p.A.
Via A. Grandi, 5
20056 Trezzo Sull'Adda
Milano, Italy
Phone: +39 02 86882941
Fax: +39 02 86882942
Email: sales@gwcitalia.com



**USA HEADQUARTERS
MANUFACTURING & SALES**
GWC Italia
8502 Crippen Street
Bakersfield, USA 93311
Phone: +1 661 834 1775
Fax: +1 661 834 2072
Email: sales@gwcitalia-usa.com



SALES DUBAI
GWC Italia DMCC
1506, Platinum Tower
I-Cluster,
Jumeirah Lake Towers
Dubai UAE
Phone: +971 44 539 358
Email: sales@gwcitalia.com



MANUFACTURING & SALES
GWC Valve Manufacturing
(Shanghai) Co., Ltd.
No 3300 Tianchen Road,
Qingpu, Shanghai 201708,
China
Phone: +86 21 5979 8796
Fax: +86 21 5979 8790
Email: sales@gwcitalia.com



SALES CHINA
GWC Italia
5/F, China Life Tower, No.16
Chaowai Street
Chaoyang District
Beijing 100020, China
Phone: +86 10 5877 1065
Fax: +86 10 5877 1120
Email: sales@gwcitalia.com

GWC Italia SpA with its Headquarters in Milan, Italy fully designs, manufactures and markets valves with one of the most extensive Trunnion Mounted Ball Valve lines you will find in the Industry today. GWC Italia which was founded by an Italian Group & USA Entrepreneurial Management team has a history of building and managing successful valve Manufacturing companies over the past 40 years. GWC Italia Valves are used in major applications for Upstream, Downstream & Transportation Segments of the Oil & Gas Industry, E&P, Petrochemical, Chemical, Mining/Minerals, Power, Marine and Industrial markets.

GWC Italia's extensive line of valve and flow control products include:

- Trunnion Mounted Ball Valves (soft & metal seated)
 - Split Body
 - Top Entry
 - Welded Body
 - Subsea
 - Cryogenic & High Temperature
 - Compact Body (Twin Ball)
- Floating Ball Valves
- Pipeline Gate and Check Valves
- Gate, Globe and Check Valves including Cast & Forged
- Needle & Gauge Valves



**Proven technology
for individual valve solutions
worldwide**

CERTIFICATIONS & STANDARDS

American Standards

American Petroleum Institute

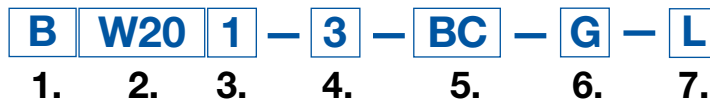
API-6D	Specification for Pipeline Valves
API-6D SS	Specification for Subsea Pipeline Valves
API-6A	Specification for Wellhead and Christmas Tree Equipment
API-6FA	Specification for Fire Test for Valves
API-598	Valve Inspection and Testing
API-600	Bolted Bonnet Steel Gate Valves for Petroleum and Natural Gas Industries
API-602	Compact Steel Gate Valves-Flanged, Threaded, Welding and Extended-Body Ends
API-607	Fire Test for Soft-Seated Quarter-Turn Valves
API-608	Metal Ball Valves - Flanged, Threaded, and Welding End
API-Q1	Specification for Quality Programs for the Petroleum, Petrochemical & Natural Gas

International Standards

ISO 9001	Quality Management Systems
ISO 14001	Environmental Management
OHSAS 18001	Occupational Health and Safety Management System
ISO/TS 29001	Petroleum, Petrochemical and Natural Gas Industries - Sector Specific Quality Management Systems
CE/PED	Pressure Equipment Directive
TR CU	Technical Regulations of the Customs Union
CRN	Canadian Registration Number
Z245.15-17	Steel Valves
ATEX	European for explosive atmosphere
SIL3	Measurement of performance required for safety instrument function
ABS	American Bureau of Shipping



Example: 1/2” BW201-3-BC-G-L



1/2” 2000 PSI FLOATING BALL VALVE, FNPT ENDS, FULL BORE, WCB BODY x 316SS TRIM, RTFE SEAT, PTFE SEALS, NACE, LEVER OP.

1. MODEL

- A - FLOATING BALL, ONE PIECE, BAR STOCK, REDUCED BORE
- AA - FLOATING BALL, ONE PIECE, INVESTMENT CAST, REDUCED BORE
- B - FLOATING BALL, SPLIT BODY, FULL BORE
- C - FLOATING BALL, SPLIT BODY, REDUCED BORE
- CC - FLOATING BALL, SPLIT BOLTED BODY, REDUCED BORE
- D - FLOATING BALL, 3-PIECE, FULL BORE
- DD - FLOATING BALL, 3-PIECE, REDUCED BORE

2. RATING

- | | |
|------------------|-----------------|
| 80 - CLASS 800 | W15 - 1,500 WOG |
| 90 - CLASS 900 | W20 - 2,000 WOG |
| 150 - CLASS 1500 | W30 - 3,000 WOG |
| W08 - 800 WOG | W60 - 6,000 WOG |
| W10 - 1,000 WOG | |

3. END CONNECTION

- | | |
|---------------------------|-----------------------------------|
| 1 - SCREWED | 4 - SCREWED FEMALE x SCREWED MALE |
| 2 - SOCKET WELD | 7 - BUTTWELD |
| 3 - SCREWED x SOCKET WELD | X - SPECIAL |

4. TYPE

- | | |
|---------------|------------------|
| 1 - FIRE-SAFE | 3 - NON-FIRESAFE |
|---------------|------------------|

5. MATERIAL (BODY + TRIM)

- | | |
|----------------------|-------------------|
| BC - WCB + 316 | KF - F304 + 304 |
| BF - A105 + 316 | LC - CF8M + 316 |
| DC - WCB + F6A/13CR | LF - F316 + 316 |
| DF - A105 + F6A/13CR | NF - F316L + 316L |
| FC - LCC + F6A/13CR | PF - F51 + F51 |
| FF - LF2 + F6A/13CR | QF - F53 + F53 |
| GC - LCC + 316 | RF - F55 + F55 |
| GF - LF2 + 316 | X - SPECIAL |
| KC - CF8 + 304 | |

6. MATERIAL (SEAT)

- | | | |
|------------|------------|-------------|
| G - RTFE | V - PEEK | X - SPECIAL |
| B - NYLON | J - DELRIN | |
| E - DEVLON | M - METAL | |

7. OPERATOR

- | | |
|------------------------|---------------|
| L - HANDWHEEL OPERATOR | B - BARE STEM |
|------------------------|---------------|

8. SPECIAL REQUIREMENTS

- | | |
|----------------------|---------------------------------|
| EB - EXTENDED BONNET | S - SUPPLY COMPLETE INFORMATION |
|----------------------|---------------------------------|

MODEL AW201

Construction: One piece body, reduced bore, free floating ball, blow-out proof stem

CS: Bar Stock

SS: Investment Cast

End to End: GWC Standard

End Threads: ASME B1.20.1 NPT

Rating: 2000 WOG



****NACE MR-01-75 Certified****

STANDARD MATERIALS

Figure Number	AW201-3-BF-G-L	AW201-3-LC-G-L
Body/Retainer	A105N	A351 CF8M
Ball/Stem	316SS	316SS
Seat	RTFE	RTFE
Seals	PTFE	PTFE

2000 WOG

DIMENSIONS IN INCHES

Valve Size	1/4" 8mm	3/8" 10mm	1/2" 15mm	3/4" 20mm	1" 25mm	1-1/4" 32mm	1-1/2" 40mm	2" 50mm
Bore Size	0.20	0.28	0.35	0.49	0.59	0.79	0.98	1.26
End to End	1.69	1.85	2.44	2.76	3.39	3.70	4.02	4.53
Length of Lever	2.87	3.23	4.61	4.61	5.24	5.24	6.18	7.87
Approx. Weight (lbs.)	0.30	0.30	0.80	1.10	2.20	3.00	3.90	6.80

MODEL AAW201

Construction: One piece body, reduced bore, free floating ball, fire-safe design, blow-out proof stem, investment cast, locking device

Full Bore: 1/2" – 2"

End to End: GWC Standard

End Threads: ASME B1.20.1 NPT

Rating: 2000 WOG



****NACE MR-01-75 Certified****

STANDARD MATERIALS

Figure Number	AAW201-1-BC-G-L	AAW201-1-BC-G-L
Body/Retainer	A216 WCB	A351 CF8M
Ball/Stem	316 SS	316 SS
Seat	RTFE	RTFE
Seals	Graphite	Graphite

2000 WOG

DIMENSIONS IN INCHES

Valve Size	1/2" 15mm	3/4" 20mm	1" 25mm	1-1/4" 32mm	1-1/2" 40mm	2" 50mm
Bore Size	0.35	0.49	0.59	0.79	0.96	1.26
End to End	2.60	2.83	3.23	3.54	3.86	4.33
Length of Lever	4.17	4.17	4.80	4.80	6.22	6.22
Approx. Weight (lbs.)	0.60	0.90	1.40	2.20	2.90	4.50

MODEL BW201



****NACE MR-01-75 Certified****

Construction: Two piece seal welded body, full bore, free floating ball, fire-safe design, blow-out proof stem, investment cast, locking device

Full Bore: 1/4" – 2"

End to End: GWC Standard

End Threads: ASME B1.20.1 NPT

Rating: 2000 WOG

STANDARD MATERIALS

Figure Number	BW201-1-BC-G-L	BW201-1-LC-G-L
Body/Cap	A216 WCB	A351 CF8M
Ball/Stem	316SS	316SS
Seat	RTFE	RTFE
Seals	Graphite	Graphite

2000 WOG

DIMENSIONS IN INCHES

Valve Size	1/4" 8mm	3/8" 10mm	1/2" 15mm	3/4" 20mm	1" 25mm	1-1/2" 40mm	2" 50mm
Bore Size	0.43	0.49	0.59	0.79	0.98	1.50	1.97
End to End	2.36	2.36	2.48	2.90	3.39	4.65	5.41
Length of Lever	3.94	3.94	4.33	4.72	5.91	7.09	7.09
Approx. Weight (lbs.)	0.49	0.51	0.80	1.14	1.83	4.80	6.55

MODEL D801/DD801/D1501

Construction: Three-piece body, full bore or reduced bore, free floating ball, fire-safe design, blow-out proof stem, forged body.

End to End: GWC Standard

End Threads: ASME B1.20.1 NPT

Socket Weld Ends: ASME B16.11

Butt Weld Ends: ASME B16.9

Rating: ASME CLASS 800/1500



****NACE MR-01-75 Certified****

STANDARD MATERIALS

Figure Number	Full Bore	Reduced Bore	Full Bore	Reduced Bore
	D801-1-BF-J-L D1501-1-BF-J-L	DD801-1-BF-J-L	D801-1-LF-J-L D1501-1-LF-J-L	DD801-1-LF-J-L
Body/Cap	ASTM A105N		ASTM A182 F316	
Ball/Stem	ASTM A182 F316		ASTM A182 F316	
Seats	DELTRIN		DELTRIN	
Seals	Graphite		Graphite	

CLASS 800 • FULL BORE

DIMENSIONS IN INCHES

Valve Size	1/2" 15mm	3/4" 20mm	1" 25mm	1-1/4" 32mm	1-1/2" 40mm	2" 50mm
Bore Size	0.59	0.79	0.98	1.26	1.50	1.97
Face to Face	5.12	5.12	6.50	6.50	7.48	7.48
Length of Lever	2.55	3.36	4.15	4.33	5.01	5.71

CLASS 800 • REDUCED BORE

DIMENSIONS IN INCHES

Valve Size	1/2" 15mm	3/4" 20mm	1" 25mm	1-1/4" 32mm	1-1/2" 40mm	2" 50mm
Bore Size	0.39	0.59	0.79	0.98	1.26	1.50
Face to Face	5.28	5.28	5.28	6.69	6.69	8.14
Length of Lever	2.55	2.85	3.36	4.15	4.37	5.01

CLASS 1500 • FULL BORE

DIMENSIONS IN INCHES

Valve Size	1/2" 15mm	3/4" 20mm	1" 25mm	1-1/4" 32mm	1-1/2" 40mm
Bore Size	0.59	0.79	0.98	1.26	1.50
Face to Face	5.12	5.12	6.50	6.50	7.48
Length of Lever	2.55	3.36	4.15	4.33	5.01

MODEL BW301/CW301



Construction: Two-piece body, free floating ball, fire-safe design, blow-out proof stem, investment and/or shell mold cast, locking device, ISO-5211 mounting pad.

Full Bore: 1/4" – 1-1/2"

Reduced Bore: 2"

End to End: GWC Standard

End Threads: ASME B1.20.1 NPT

Rating: 3000 WOG

STANDARD MATERIALS

****NACE MR-01-75 Certified****

Figure Number	Full Bore BW301-1-BC-J-L	Reduced Bore CW301-1-BC-J-L	Full Bore BW301-1-LC-J-L	Reduced Bore CW301-1-LC-J-L
Body/Adapter	A216 WCB / AISI 1018		A351 CF8M	
Ball/Stem	316SSS		316SS	
Seats	Delrin		Delrin	
Seals	Graphite		Graphite	

3000 WOG

DIMENSIONS IN INCHES

Valve Size	1/4" 8mm	1/2" 15mm	3/4" 20mm	1" 25mm	1-1/2" 40mm	2" 50mm
Bore Size	0.25	0.50	0.75	1.00	1.50	1.50
End to End	3.00	4.00	4.25	4.50	5.25	6.25
Length of Lever	5.00	5.00	5.83	8.13	10.00	10.00
Approx. Weight (lbs.)	1.61	1.61	2.93	4.50	10.70	11.29

MODEL BW601/CW601



Construction: Two-piece body, free floating ball, fire-safe design, blow-out proof stem, investment and/or shell mold cast, locking device, ISO-5211 mounting pad.

Full Bore: 1/4" – 1-1/2"

Reduced Bore: 2"

End to End: GWC Standard

End Threads: ASME B1.20.1 NPT

Rating: 6000 WOG

****NACE MR-01-75 Certified****

STANDARD MATERIALS

Figure Number	Full Bore BW601-1-BC-J-L	Reduced Bore CW601-1-BC-J-L	Full Bore BW601-1-LC-J-L	Reduced Bore CW601-1-LC-J-L
Body/Adapter	A216 WCB / AISI 1018		A351 CF8M	
Ball/Stem	316SSS		316SS	
Seats	Delrin		Delrin	
Seals	Graphite		Graphite	

6000 WOG

DIMENSIONS IN INCHES

Valve Size	1/4" 8mm	1/2" 15mm	3/4" 20mm	1" 25mm	1-1/2" 40mm	2" 50mm
Bore Size	0.25	0.50	0.75	1.00	1.50	1.50
End to End	3.00	4.00	4.25	4.75	5.25	6.25
Length of Lever	4.33	4.33	5.83	8.13	10.00	10.00
Approx. Weight (lbs.)	1.61	1.63	3.37	6.00	14.20	15.58

MODEL BW304/CW304

Construction: Two piece body, free floating ball, fire-safe design, blow-out proof stem, investment and/or shell mold cast, locking device, ISO-5211 mounting pad.

Full Bore: 1/4" – 3/4"

Reduced Bore: 1"

End to End: GWC Standard Male x Female

End Threads: ASME B1.20.1 NPT

Rating: 3000 WOG



****NACE MR-01-75 Certified****

STANDARD MATERIALS

Figure Number	Full Bore BW304-1-BC-J-L	Reduced Bore CW304-1-BC-J-L	Full Bore BW304-1-LC-J-L	Reduced Bore CW304-1-LC-J-L
Body/Adapter	A216 WCB / AISI 1018		A351 CF8M	
Ball/Stem	316SSS		316SS	
Seats	Delrin		Delrin	
Seals	Graphite		Graphite	

3000 WOG

DIMENSIONS IN INCHES

Valve Size	1/4" 8mm	1/2" 15mm	3/4" 20mm	1" 25mm
Bore Size	0.25	0.50	0.75	0.75
End to End	3.88	4.25	4.69	4.69
Length of Lever	5.00	5.00	5.83	5.83
Approx. Weight (lbs.)	1.61	1.61	2.93	2.69

MODEL BW604/CW604

Construction: Two piece body, free floating ball, fire-safe design, blow-out proof stem, investment and/or shell mold cast, locking device, ISO-5211 mounting pad.

Full Bore: 1/4" – 3/4"

Reduced Bore: 1"

End to End: GWC Standard Male x Female

End Threads: ASME B1.20.1 NPT

Rating: 6000 WOG



****NACE MR-01-75 Certified****

STANDARD MATERIALS

Figure Number	Full Bore BW604-1-BC-J-L	Reduced Bore CW604-1-BC-J-L	Full Bore BW604-1-LC-J-L	Reduced Bore CW604-1-LC-J-L
Body/Adapter	A216 WCB / AISI 1018		A351 CF8M	
Ball/Stem	316SSS		316SS	
Seats	Delrin		Delrin	
Seals	Graphite		Graphite	

6000 WOG

DIMENSIONS IN INCHES

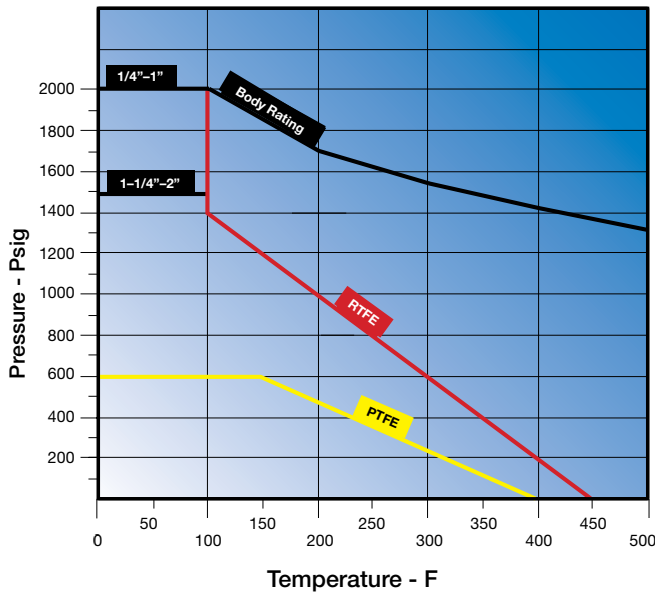
Valve Size	1/4" 8mm	1/2" 15mm	3/4" 20mm	1" 25mm
Bore Size	0.25	0.50	0.75	0.75
End to End	3.88	4.25	4.69	4.69
Length of Lever	5.00	5.00	5.83	5.83
Approx. Weight (lbs.)	1.61	1.61	2.93	2.69

PRESSURE/TEMPERATURE CHART

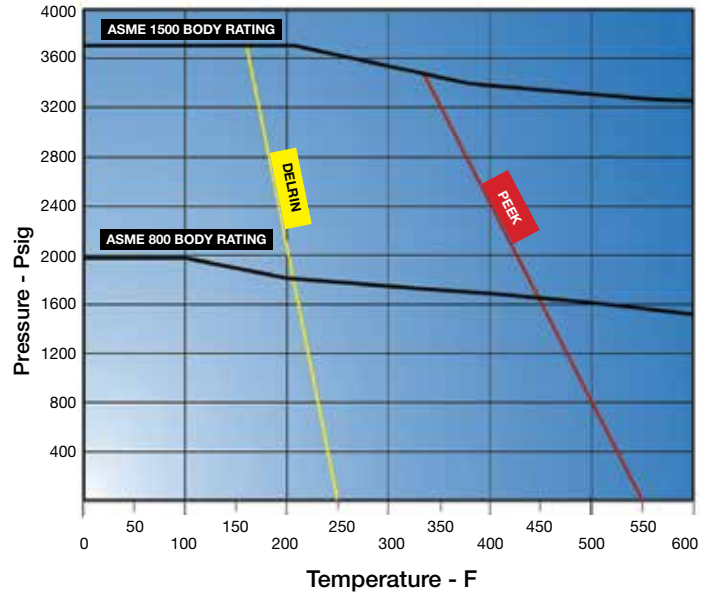
MODEL AW, AAW, BW, CW, D & DD FLOATING BALL VALVE

The following chart indicates the pressure and temperature ratings for commonly used seat material in GWC 2000, 3000, 6000 WOG, ASME CLASS 800 & 1500 floating ball valves. Other materials are available upon request.

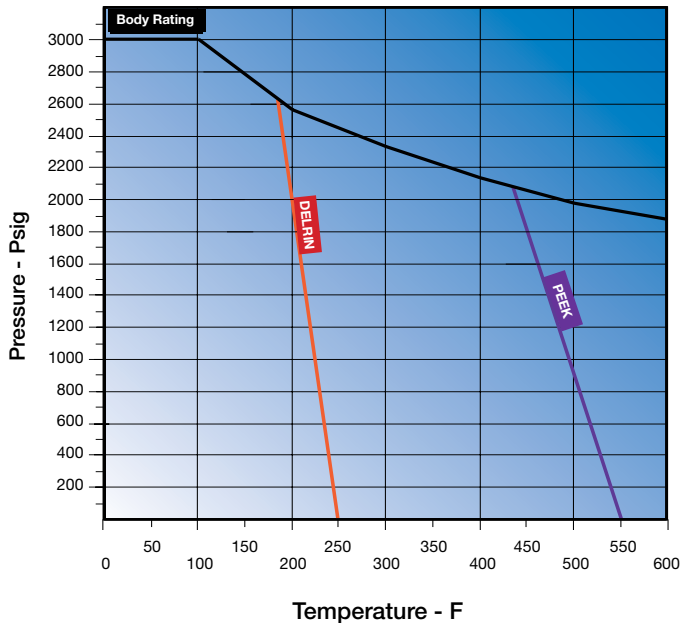
AW201, AAW201, BW201 RATING 2000 PSI WOG



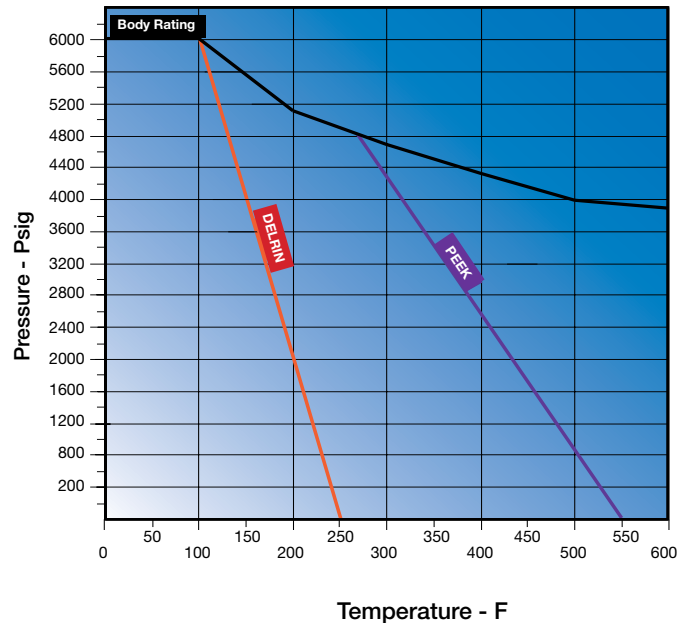
D801, DD801, DD1501 ASME CLASS 800 & 1500



BW301, CW301 RATING 3000 PSI WOG



BW601, CW601 RATING 6000 PSI WOG





**WORLDWIDE
HEADQUARTERS**

GWC Italia S.p.A.

Via A. Grandi, 5
20056 Trezzo Sull'Adda
Milano, Italy
ph: 39-02-86882941
fax: 39-02-86882942

USA HEADQUARTERS

GWC Italia

8502 Crippen Street
Bakersfield, CA 93311
ph: 661-834-1775
fax: 661-834-2072

www.gwcitalia.com