

# GWC Italia

Proven technology  
for individual valve solutions  
worldwide



**THREADED AND SOCKET WELD  
FLOATING BALL VALVES**

SBV-1002

The GWC Italia logo, consisting of the letters 'GWC' in a bold, blue, sans-serif font, with a registered trademark symbol (®) to the upper right.

# **GWC Italia**

## Worldwide Network

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**GWC Italia SpA** with its Headquarters in Milan, Italy designs, manufacturers and markets valves with one of the most extensive lines you will find in the Industry today. GWC Italia SpA which is founded by an Italian Group & USA Entrepreneurial Management team, has become the Parent Company of the long standing GWC Worldwide Companies. This Italian & USA team has a history of building and managing successful valve manufacturing companies over the past 40 years. The valves manufactured in Italy will be complementary to the existing GWC line consisting of diversified flow control packages in a variety of alloys, trims, configurations, sizes and pressure classes, from general to severe applications. GWC 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 SpA 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
  - Two Balls One Body DBBV
- Pipeline Gate and Check Valves
- Floating Ball Valves
- Gate, Globe and Check Valves including Cast & Forged
- Butterfly Valves including Triple Offset, High Performance and Resilient Seated
- Dual Plate Check Valves
- Needle and Gauge Valves
- Wellhead Gate Valves

GWC Italia Spa products are designed, engineered and manufactured to exceed its customer's stringent process requirements including API 6D, API 6A, API 6DSS, API 600, API 602, API 608, ISO 9001, PED, ATEX, SIL 3 and TA – Luft.



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## 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-594	Check Valves: Wafer, Wafer-Lug, and Double Flanged Type
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-609	Butterfly Valves: Double Flanged, Lug and Wafer-Type
API-Q1	Specification for Quality Programs for the Petroleum, Petrochemical & Natural Gas

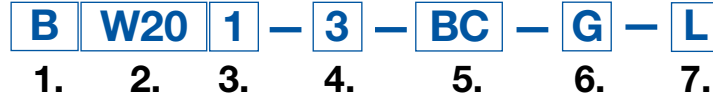
#### American Society of Mechanical Engineers

ASME-B1.20.1	Pipe Threads, General Purpose (inch)
ASME-B16.11	Forged Fittings, Socket-Welding and Threaded
ASME-B16.10	Face to Face and End to End Dimensions of Valves
ASME-B16.5	Pipe Flanges and Flanged Fittings NPS 1/2 ~ NPS 24
ASME-B16.47	Large Diameter Steel Flanges NPS 26 ~ NPS 60
ASME-B16.25	Buttwelding Ends
ASME-B16.34	Valves - Flanged, Threaded and Welding End

### International Standards

ISO 9001:2008	Quality Management Systems
ISO 14001	Environmental Management
OHSAS 18001:2007	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
CU-TR	Technical Reglament Conformity Certificate TRCU
CRN	Canadian Registration Number
Z245.15.96	Pipeline Steel Valves
ATEX	European for explosive atmosphere
SIL3	Measurement of performance required for safety instrument function

## 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

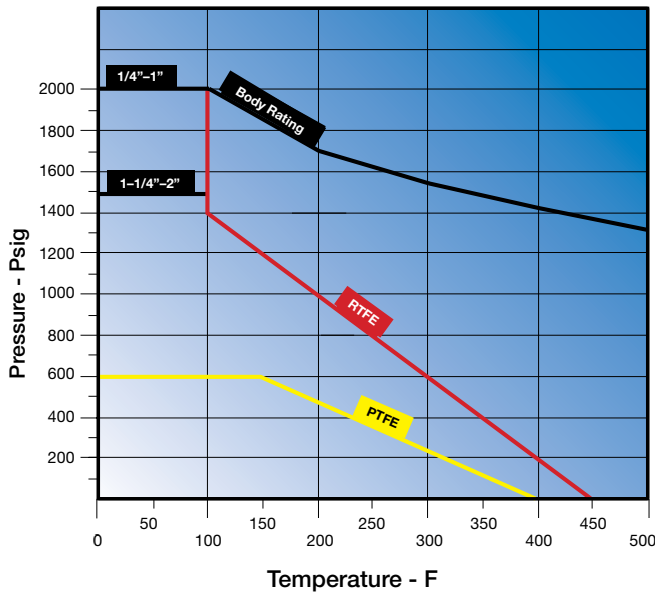
Valve Size	1/4" 8mm	1/2" 15mm	3/4" 20mm	1" 25mm
Bore Size	0.25	0.50	0.75	0.75
End to End	3.88	4.25	4.69	4.69
Length of Lever	5.00	5.00	5.83	5.83
Approx. Weight (lbs.)	1.61	1.61	2.93	2.69

# PRESSURE/TEMPERATURE CHART

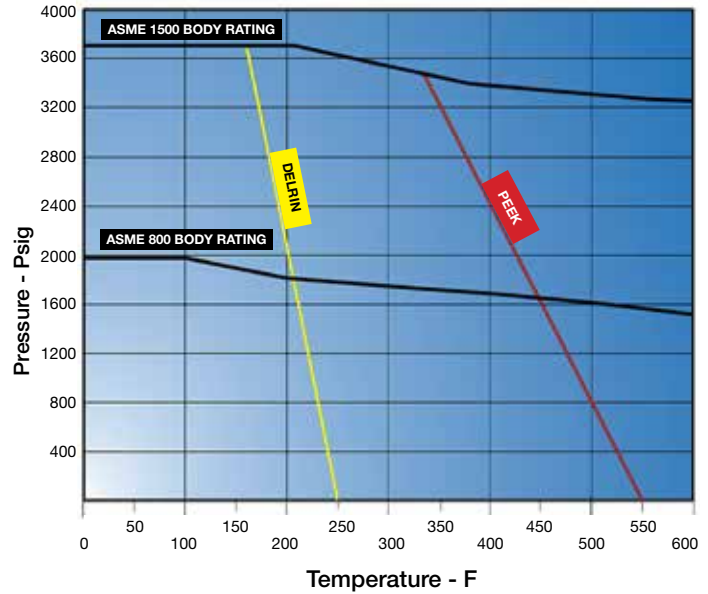
## MODEL AW, AAW, BW, CW, D & DD FLOATING BALL VALVE

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.

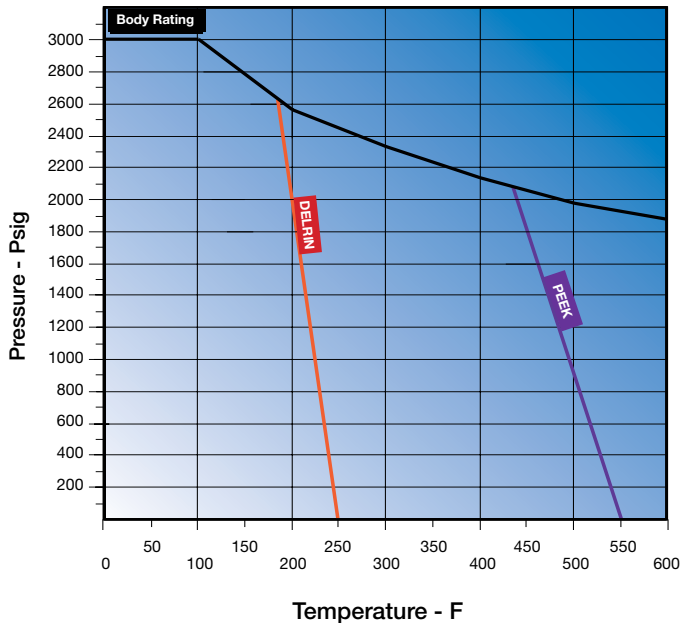
AW201, AAW201, BW201 RATING 2000 PSI WOG



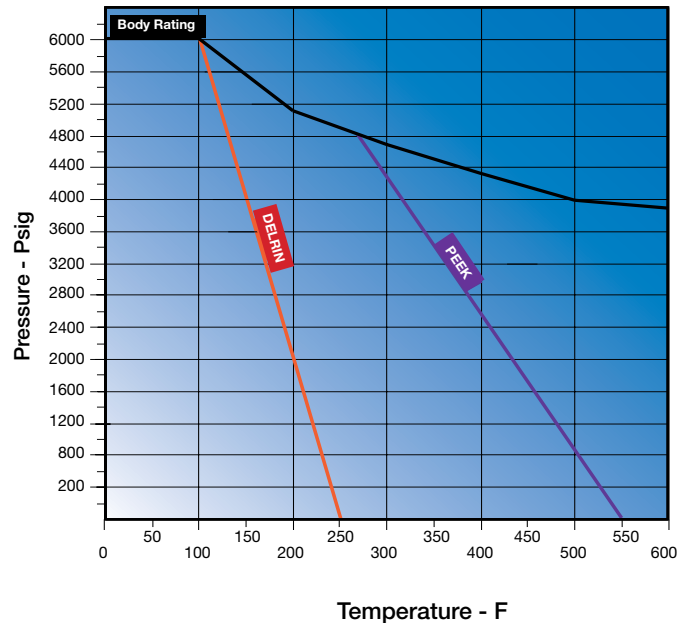
D801, DD801, DD1501 ASME CLASS 800 & 1500



BW301, CW301 RATING 3000 PSI WOG



BW601, CW601 RATING 6000 PSI WOG





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