

GWC ITALIA

Proven technology
for individual valve solutions
worldwide



**THREADED AND SOCKET WELD
FLOATING BALL VALVES**

SBV-1004

GWC ITALIA

GWC ITALIA

Worldwide Network

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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 Check Valves
- Gate, Globe and Check Valves including Cast & Forged
- Needle & Gauge Valves



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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-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 9001:2008	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
CSA Z245.15-17	Pipeline 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-G1-L

B	W20	1	–	3	–	BC	–	G	1	–	L
1.	2.	3.		4.		5.		6.	7.		8.

1/2" 2000 PSI FLOATING BALL VALVE, FNPT ENDS, FULL BORE, WCB BODY x 316SS TRIM, RTFE SEAT, HNBR AED 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, BOLTED BODY, FULL BORE
- T - FLOATING BALL, 3-PIECE, THREADED BODY, FULL BORE
- TT - FLOATING BALL, 3-PIECE, THREADED BODY, 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 | GF - LF2 + 316 | PF - F51 + F51 |
| BF - A105 + 316 | GN - LF2 + 316* | QF - F53 + F53 |
| DC - WCB + F6A/13CR | KC - CF8 + 304 | RF - F55 + F55 |
| DF - A105 + F6A/13CR | KF - F304 + 304 | X - SPECIAL |
| FC - LCC + F6A/13CR | LC - CF8M + 316 | *: Nitriding Treatment on Ball + |
| FF - LF2 + F6A/13CR | LF - F316 + 316 | XM-19 Stem |
| GC - LCC + 316 | NF - F316L + 316L | |

6. MATERIAL (SEAT)

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

7. MATERIAL (O-RING SEAL)

- | | | | | |
|--------------|-----------------|-------------------------|--------------------|-------------|
| 1 - HNBR AED | 3 - FKM GLT AED | 5 - AFLAS | 7 - PTFE + ELGILOY | X - SPECIAL |
| 2 - FKM AED | 4 - EPDM | 6 - HNBR AED (Low Temp) | 8 - GRAPHITE | |

8. OPERATOR

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

9. 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-LC-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 DW201/D801

Construction: Three-piece bolted body, full bore, free floating ball, API 607 fire-safe design, blow-out proof stem, Forged & Cast body, Mounting pad

Design: API 608 / ASME B16.34

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: 2000 PSI / ASME CLASS 800



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

STANDARD MATERIALS

Figure Number	DW201-1-BF-G8-L D801-1-BF-J-L	DW201-1-GF-G8-L D801-1-GF-J-L	DW201-1-LF-G8-L D801-1-LF-J-L
Body/Cap	ASTM A105N	ASTM A350 LF2	ASTM A182 F316
Ball/Stem	ASTM A182 F316	SS 316	ASTM A182 F316
Seats	RTFE / DELRIN	RTFE / DELRIN	RTFE / DELRIN
Seals	Graphite / 316 +Graphite	Graphite / 316 +Graphite	Graphite/316 +Graphite

Note : Cast body is available upon request.

2000 PSI • 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	0.57	0.81	0.98	1.25	1.50	2.00
Face to Face	2.74	3.19	3.74	4.26	4.72	5.63
Length of Lever	5.12	5.67	7.48	7.32	7.32	14.17

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	3.74	6.50	7.48	7.48
Length of Lever	2.55	3.36	7.48	4.33	5.01	5.71

MODEL D1501



Construction: Three-piece bolted body, full bore, free floating ball, API 607 fire-safe design, blow-out proof stem, forged body, Mounting pad

Design: API 608 / ASME B16.34

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 1500

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

STANDARD MATERIALS

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

Figure Number	DW1501-1-GF-V8-L	DW1501-1-LF-V8-L	DW1501-1-GN-G8-L
Body/Cap	ASTM A350 LF2	ASTM A182 F316	ASTM A350 LF2
Ball/Stem	SS 316	SS 316	316-NITRIDING/XM-19
Seats	PEEK	PEEK	PEEK
Seals	Graphite	Graphite	Graphite

CLASS 1500 • FULL BORE

DIMENSIONS IN INCHES

Valve Size	1/2" 15mm	3/4" 20mm	1" 25mm
Bore Size	0.57	0.81	0.98
Face to Face	2.74	3.19	3.74
Length of Lever	5.12	5.67	7.48

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, 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



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

STANDARD MATERIALS

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	316SS		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, 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	316SS		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 TW301/TTW301



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

Construction: Three-piece Threaded body, free floating ball, fire-safe design, blow-out proof stem, Forging Design, Locking device, Mounting pad.

Full Bore: 1/2", 3/4" & 1-1/2"

Reduced Bore: 1" & 2"

End to End: GWC Standard End

Threads: ASME B1.20.1 NPT

Socket Weld Ends: ASME B16.11

Rating: 3000 WOG

STANDARD MATERIALS

Figure Number	TW301-1-BF-J1-L TW301-1-BF-J1-L	TW301-1-GF-J1-L TTW301-1-GF-J1-L	TW301-1-LF-J1-L TTW301-1-LF-J1-L
Body/Adapter	A105N	A350 LF2	ASTM A182 F316
Ball/Stem	316SS	316SSS	316SS
Seats	Delrin	Delrin	Delrin
Seals	HNBR	HNBR	HNBR

3000 WOG

DIMENSIONS IN INCHES

Valve Size	1/2" 15mm	3/4" 20mm	1" 25mm	1-1/2" 40mm	2" 50mm
Bore Size	0.50	0.75	0.75	1.50	1.50
End to End	3.85	4.25	4.25	6.25	6.25
Length of Lever	4.95	6.75	6.75	11.00	11.00
Approx. Weight (lbs.)	3.45	6.00	10.20	18.20	20.58

MODEL TW601/TTW601



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

Construction: Three-piece Threaded body, free floating ball, fire safe design, blow-out proof stem, Forging Design, Locking device, Mounting Pad

Full Bore: 1/2", 3/4", 1" & 1-1/2"

Reduced Bore: 1" & 2"

End to End: GWC Standard End

Threads: ASME B1.20.1 NPT

Socket Weld Ends: ASME B16.11

Rating: 6000 WOG

STANDARD MATERIALS

DIMENSIONS IN INCHES

Figure Number	TW601-1-BF-J1-L TTW601-1-BF-J1-L	TW601-1-GF-J1-L TTW601-1-GF-J1-L	TW601-1-LF-J1-L TTW601-1-LF-J1-L
Body/Adapter	A105N	A350 LF2	ASTM A182 F316
Ball/Stem	316SS	316SS	316SS
Seats	PEEK	PEEK	PEEK
Seals	HNBR	HNBR	HNBR

6000 WOG

DIMENSIONS IN INCHES

Valve Size	1/2" 15mm	3/4" 20mm	1" 25mm	1" 25mm	1-1/2" 40mm	2" 50mm
Bore Size	0.50	0.75	0.75	1.00	1.50	1.50
End to End - SW X SW	5.00	6.77	6.77	6.77	8.54	8.54
End to End - NPT X NPT	3.85	4.25	5.25	5.25	6.42	7.40
Length of Lever	4.95	6.75	6.75	6.75	11.00	11.00
Approx. Weight (lbs.)	3.45	6.00	10.20	10.20	18.20	20.58

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, 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
Body/Adapter	A216 WCB / AISI 1018		A351 CF8M
Ball/Stem	316SS		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, 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	316SS		316SS	
Seats	Delrin		Delrin	
Seals	Graphite		Graphite	

6000 WOG**DIMENSIONS IN INCHES**

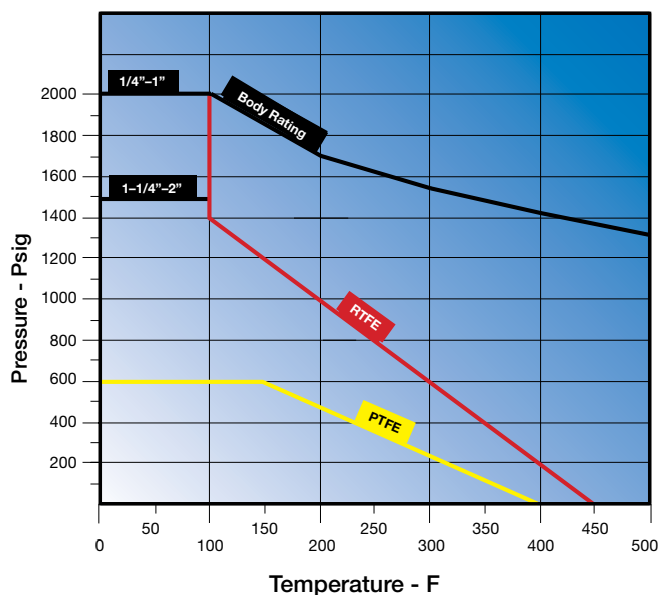
Valve Size	1/4" 8mm	1/2" 15mm	3/4" 20mm	1" 25mm
Bore Size	0.25	0.50	0.75	0.75
End to End	3.88	4.25	4.69	4.69
Length of Lever	5.00	5.00	5.83	5.83
Approx. Weight (lbs.)	1.61	1.61	2.93	2.69

PRESSURE/TEMPERATURE CHART

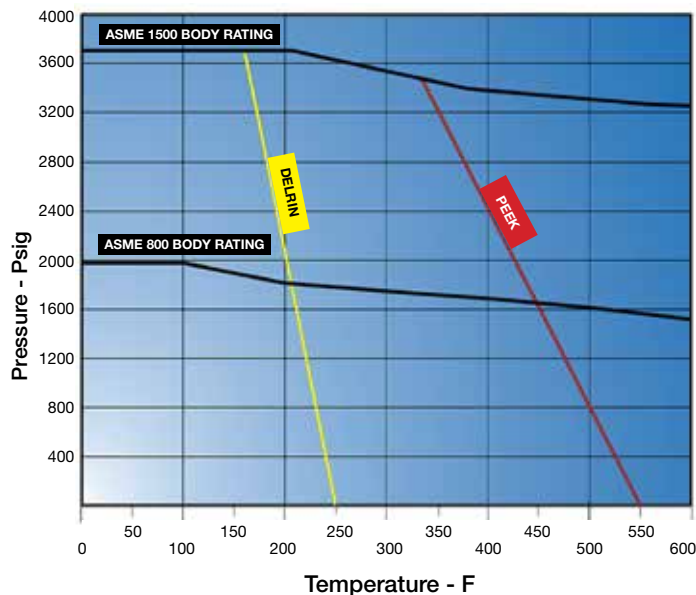
MODEL AW, AAW, BW, CW, D, TW & TTW FLOATING BALL VALVE

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.

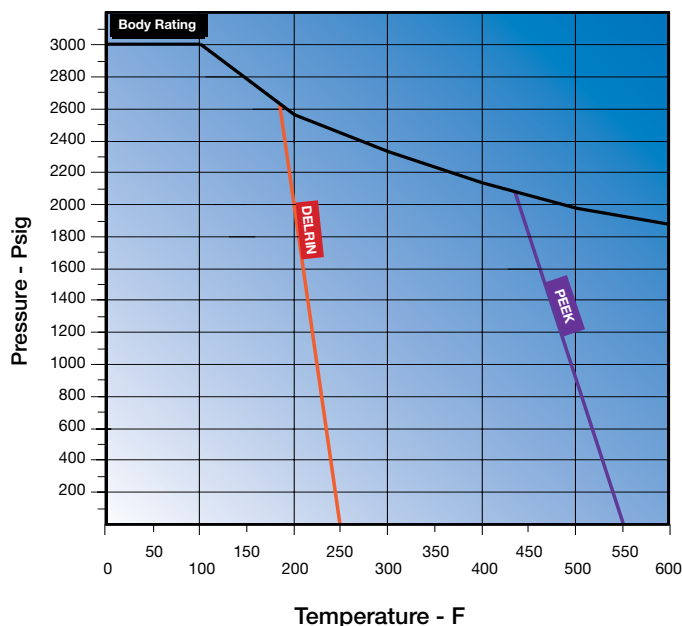
AW/AAW201, BW201, DW201
RATING 2000 PSI WOG



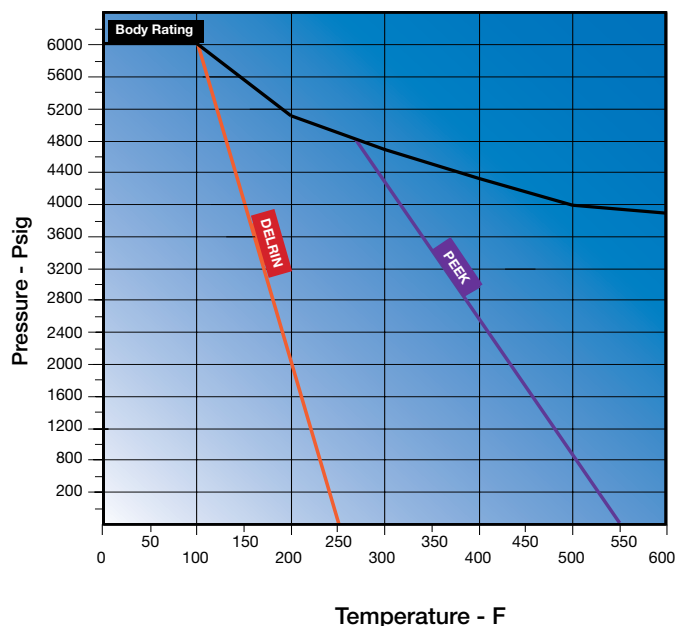
D801, D1501
ASME CLASS 800 & 1500



BW/CW301, TW/TTW301
RATING 3000 PSI WOG



BW/CW601, TW/TTW601, BW/CW604
RATING 6000 PSI WOG



NOTES

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NOTES

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NOTES

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