

# GWC ITALIA

Proven technology  
for individual valve solutions  
worldwide



NEEDLE VALVES  
GAUGE VALVES

NGV-1002

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

# GWC ITALIA

## Worldwide Network

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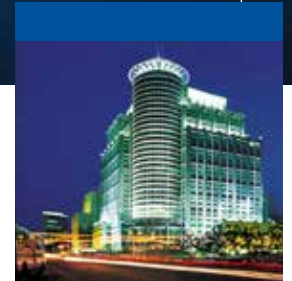
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**GWC Italia SpA** with its Headquarters in Milan, Italy fully designs, manufactures and markets valves with one of the most extensive Trunnion Mounted Ball Valve lines you will find in the Industry today. GWC Italia which was founded by an Italian 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 Gate and 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-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

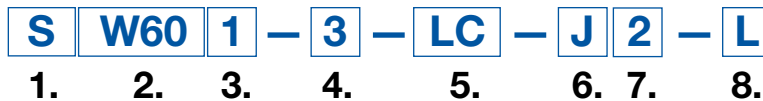
### International Standards

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



**ORDERING GUIDE**

**Example: 1/2” SW601-3-LC-J2-L**



1/2” 6,000 PSI NEEDLE VALVE, FNPT, CF8M BODY x 316SS TRIM, DELRIN SEAT, VITON B STEM SEAL, NACE, LEVER OP.

**1. MODEL**

S	-	NEEDLE VALVE	SG	-	GAUGE VALVE
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**2. RATING**

W60	-	6,000 WOG	W100	-	10,000 WOG
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**3. END CONNECTION**

1	-	SCREWED	5	-	1 SCREWED MALE x 3 SCREWED FEMALE
4	-	SCREWED FEMALE x SCREWED MALE	X	-	SPECIAL

**4. TYPE**

3 - STANDARD

**5. MATERIAL (BODY + TRIM)**

LC	-	CF8M + 316	SF	-	1017 + 316
LF	-	F316 + 316	X	-	SPECIAL

**6. MATERIAL (SEAT)**

J	-	DELRIN	M	-	METAL	X	-	SPECIAL
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**7. MATERIAL (O-RING SEAL)**

1	-	HNBR	2	-	VITON B	X	-	SPECIAL
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**8. OPERATOR**

L - HANDWHEEL OPERATOR

**9. SPECIAL REQUIREMENTS**

S - SUPPLY COMPLETE INFORMATION

## NEEDLE VALVES

### MODEL SW601

**Construction:** Heavy duty body, precision threaded bonnet with bonnet locking pin, metal to metal back seat, O-ring stem seal, Delrin replaceable soft seat.

**End to End:** GWC Standard Female x Female

**End Threads:** ASME B1.20.1

**Rating:** 6000 WOG

**\*\*NACE MR-01-75 Certified\*\***  
(For CF8M body only)



### STANDARD MATERIALS

Figure Number	SSW601-3-SF-J1-L	SW601-3-LC-J1-L
Body	1017	A351 CF8M
Stem	316SS	316SS
Seat	Delrin	Delrin
O-Ring	HNBR	HNBR

### 6000 WOG

Valve Size	1/4" 8mm	1/2" 15mm	3/4" 20mm	1" 25mm
Bore Size	0.25	0.25	0.38	0.38
End to End	2.88	2.88	4.25	4.25
Centerline to End	1.44	1.44	2.13	2.13
Height at Close Pos.	3.63	3.63	4.96	4.96
Open Travel	0.38	0.38	0.35	0.35
Approx. Weight (lbs.)	1.36	1.19	2.39	2.38

DIMENSIONS IN INCHES

### MODEL SW1001

**Construction:** Heavy duty body, precision threaded bonnet with bonnet locking pin, metal to metal back seat, O-ring stem seal, metal to metal stem seat.

**End to End:** GWC Standard Female x Female

**End Threads:** ASME B1.20.1

**Rating:** 10000 WOG

**\*\*NACE MR-01-75 Certified\*\***  
(For CF8M body only)



### STANDARD MATERIALS

Figure Number	SW1001-3-SF-M1-L	SW1001-3-LC-M1-L
Body	1017	A351 CF8M
Stem	316SS	316SS
Seat	Metal	Metal
O-Ring	HNBR	HNBR

### 10000 WOG

Valve Size	1/4" 8mm	1/2" 15mm
Bore Size	0.25	0.25
End to End	2.88	2.88
Centerline to End	1.44	1.44
Height at Close Pos.	3.63	3.63
Open Travel	0.38	0.38
Approx. Weight (lbs.)	1.36	1.19

DIMENSIONS IN INCHES

**NEEDLE VALVES**

**MODEL SW604**



**Construction:** Heavy duty body, precision threaded bonnet with bonnet locking pin, metal to metal back seat, O-ring stem seal, Delrin replaceable soft seat.

**End to End:** GWC Standard Male x Female

**End Threads:** ASME B1.20.1

**Rating:** 6000 WOG

**\*\*NACE MR-01-75 Certified\*\***  
(For CF8M body only)

**STANDARD MATERIALS**

Figure Number	SW604-3-SF-J1-L	SW604-3-LC-J1-L
Body	1017	A351 CF8M
Stem	316SS	316SS
Seat	Delrin	Delrin
O-Ring	HNBR	HNBR

**6000 WOG**

Valve Size	1/4" 8mm	1/2" 15mm	3/4" 20mm	1" 25mm
Bore Size	0.25	0.25	0.44	0.44
End to End	3.25	3.38	5.50	5.50
Centerline to End	1.44	1.44	2.13	2.13
Height at Close Pos.	3.63	3.63	4.76	4.76
Open Travel	0.38	0.38	0.55	0.55
Approx. Weight (lbs.)	1.28	1.28	2.39	2.38

DIMENSIONS IN INCHES

**MODEL SW1004**



**Construction:** Heavy duty body, precision threaded bonnet with bonnet locking pin, metal to metal back seat, O-ring stem seal, metal to metal stem seat.

**End to End:** GWC Standard Male x Female

**End Threads:** ASME B1.20.1

**Rating:** 10000 WOG

**\*\*NACE MR-01-75 Certified\*\***  
(For CF8M body only)

**STANDARD MATERIALS**

Figure Number	SW1004-3-SF-M1-L	SW1004-3-LC-M1-L
Body	1017	A351 CF8M
Stem	316SS	316SS
Seat	Metal	Metal
O-Ring	HNBR	HNBR

**10000 WOG**

Valve Size	1/4" 8mm	1/2" 15mm
Bore Size	0.25	0.25
End to End	2.88	2.88
Centerline to End	1.44	1.44
Height at Close Pos.	3.63	3.63
Open Travel	0.38	0.38
Approx. Weight (lbs.)	1.36	1.19

DIMENSIONS IN INCHES

## GAUGE VALVES

### MODEL SGW605

**Construction:** Oversized barstock body, precision threaded bonnet with bonnet locking pin, metal to metal back seat, O-ring stem seal, Delrin replaceable soft seat.

**End to End:** GWC Standard  
**End Threads:** ASME B1.20.1  
**Rating:** 6000 WOG



**\*\*NACE MR-01-75 Certified\*\***  
 (For Model SGW605-3-LC-N-L)

### STANDARD MATERIALS

Figure Number	SGW605-3-SF-J1-L	SGW605-3-LC-J1-L
Body	1017	A351 CF8M
Stem	316SS	316SS
Seat	Delrin	Delrin
O-Ring	HNBR	HNBR

### 6000 WOG

Valve Size	1/2" 15mm
Bore Size	0.25
End to End	5.63
Centerline to End	2.38
Height at Close Pos.	3.63
Open Travel	0.38
Approx. Weight (lbs.)	2.29

DIMENSIONS IN INCHES

### MODEL SGW1005

**Construction:** Oversized barstock body, precision threaded bonnet with bonnet locking pin, metal to metal back seat, O-ring stem seal, metal to metal stem seat.

**End to End:** GWC Standard  
**End Threads:** ASME B1.20.1  
**Rating:** 10000 WOG



**\*\*NACE MR-01-75 Certified\*\***  
 (For Model SGW1005-3-LC-M-L)

### STANDARD MATERIALS

Figure Number	SGW1005-3-SF-M1-L	SGW1005-3-LC-M1-L
Body	1017	A351 CF8M
Stem	316SS	316SS
Seat	Metal	Metal
O-Ring	HNBR	HNBR

### 10000 WOG

Valve Size	1/2" 15mm
Bore Size	0.25
End to End	5.63
Centerline to End	2.38
Height at Close Pos.	3.63
Open Travel	0.38
Approx. Weight (lbs.)	2.29

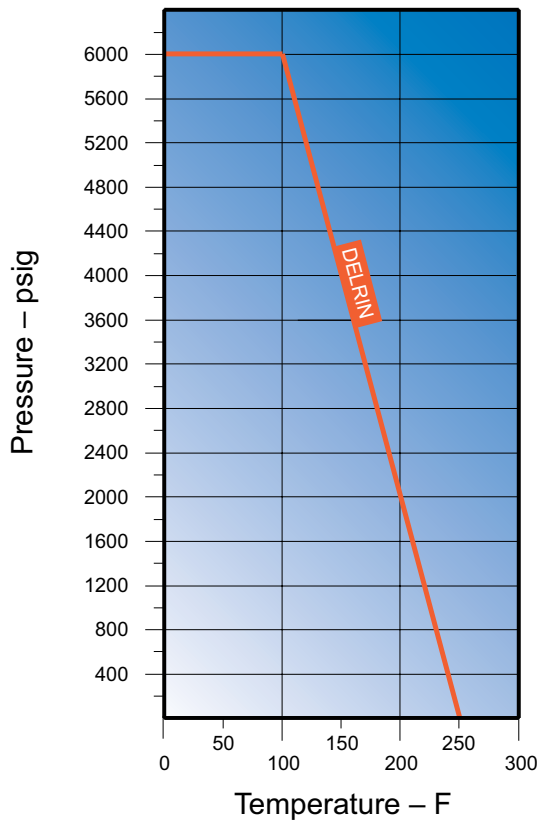
DIMENSIONS IN INCHES

**PRESSURE / TEMPERATURE CHART**

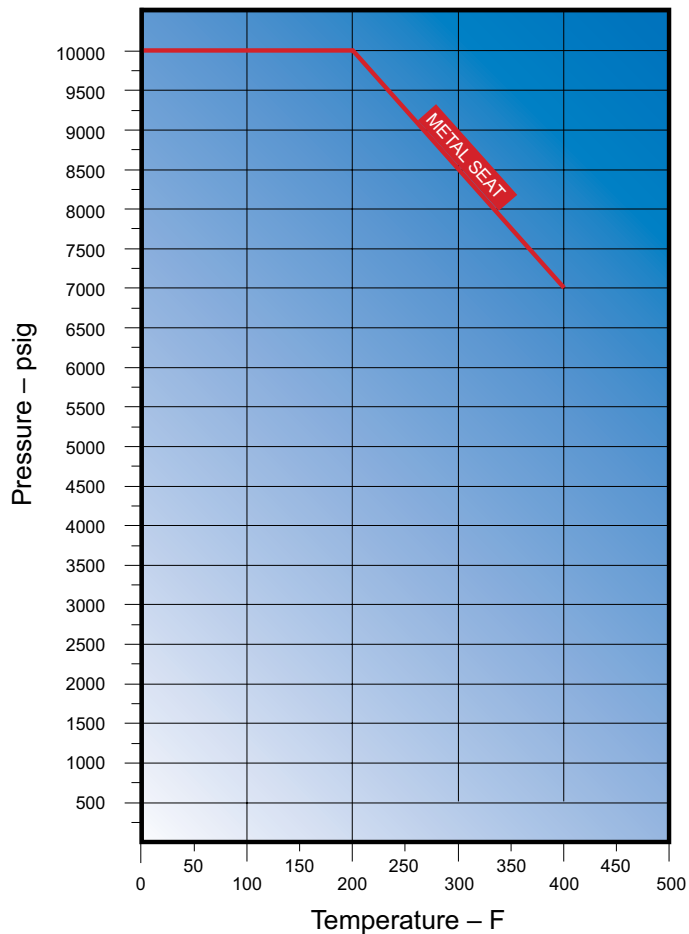
**MODEL SW NEEDLE VALVE & SGW GAUGE VALVE**

The following chart indicates the pressure and temperature ratings for commonly used seat and seal material used in GWC 6,000 and 10,000 WOG needle and gauge valves. Other materials are available upon request.

*SW601, SW604, SGW605  
RATING 6000 PSI WOG*



*SW1001, SW1004, SGW1005  
RATING 10000 PSI WOG*







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