# Forged Steel Gate, Globe & Check Valves









## **GENERAL INFORMATION**

The **BONETTI**® make API 602 GGC valves are robust in design, highly durable and known for Quality, HIGH PERFORMANCE and service. They are designed for tight sealing and low torque for operation.

#### **DESIGN**

- Gate valves are of solid wedge and bolted bonnet construction. Valve conforms to API 602 standard including shell thickness.
- Globe valve are of flat as well as ball type disc, outside screw-and-Yoke, and bolted bonnet construction. Check valves are of piston lift type and bolted cover construction.

## **APPLICATION RANGE**

Our GGC Valves are used in many process lines containing many different fluids such as

- Steam
- · Superheated water
- · Thermal transfer fluids
- Ammonia
- LPG
- Hydrocarbons
- Acids
- Alkaloids etc.

They have ability to provide perfect seat shut off and packing tightness and are used for long term trouble free operation. Check valves are used where self-actuation is required. They are generally used in

- Industrial plants
- · Power plants
- · Process engineering refineries
- · Oil and marine engineering
- Steam gas
- · Oil and other non-aggressive media.

#### CONNECTIONS

- Socket Weld according to ASME B16.11
- Butt Weld according to ASME B16.25
- Female Screwed NPT or BSP

# **SIZES**

Standard Sizes are NPS 1/2" to NPS 2".

# **STANDARD**

**BONETTI®** forged steel valves are designed according to API 602.

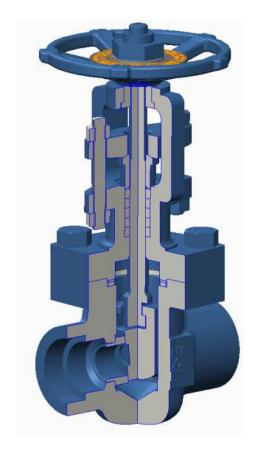


Fig. No. 01

#### **RATING**

**BONETTI®** Forged Steel GGC valves are designed in compliance with ASME B16.34 Pressure and Temperature ratings.

## **APPROVALS**

BONETTI® Forged Steel GGC valves are manufactured in accordance to ISO 9001:2008 and approved according to

- Pressure Equipment Directive 97/23/ES ("PED")
- Indian Boiler Regulations-1950

## **ACTUATED VALVES**

**BONETTI**® Valves can be equipped with pneumatic, hydraulic or electric actuator for remote control.

#### SHIPPING PREPARATION

- BONETTI® Valves are shipped only after they have passed all required dimensional and functional tests.
- The valve are supplied with each valve individually packed in separate corrugated box.



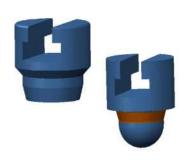
**Body** 



**Bonnet** 



Wedge





Plug

#### 1 BODY

Available in Forged Carbon Steel, alloy steels and stainless steel materials. Body is designed as per the dimensional requirements of standards such as API 602, ISO 15761 and ASME 16.34. Body is available in standard port and reduced port.

#### 2 Bonnet

The bonnet is forged steel with integral backseat and consists of stuffing box, designed as per specifications of API 602 & ISO 15761.

#### 3 Stem

Stem is part of valve trim. Stem is provided with integral backseat shoulder which mates with the integral backseat of bonnet. Stem has double start acme thread for smooth & fast operation.

# 4 Seat Ring

Seat rings are part of valve trim. They are flared into the valve body and fitted into place, thus forming seal with body. Seating surfaces are ground and lapped. Seat rings are integral in globe and check valve.

#### 5 Cover

The cover is forged steel and is designed as per the dimensional requirements of the standards API 602, ISO 15761 & ASME 16.34.

## 6 Plug

The plug for globe valve is made of investment casting and is part of valve trim. Plug is of tapered type design. Plug is attached to the stem by means of swivel type arrangement.

## 7 Wedge

Wedge for Gate valve is made of Investment casting and is part of valve trim. Seating surfaces are ground and lapped. Wedge opens the full port thus avoiding any flow loss or wedge wear.

#### 8 Gasket

Bonnet and body are connected by means of bolted bonnet joint. This bolted bonnet joint design consists of enclosed, precise compression & spiral wound type gasket. Gasket provides positive seal and avoids overstressing of flange.

#### 9 Bolting

Gland bolt and nut assembly is a stud, double nut arrangement. This design is having flexibility of complete withdrawal from the valve when any service work is needed. The standardization of bolt allows easy replacement of nut and bolts in case of these items are lost or need any replacement.

# 10 Gland flange

The gland, gland flange assembly is having separate two piece design. This design allows the flange to be evenly tightened while gland is constrained to maintain its parallel alignment with stem and stuffing box.

#### 11 Handwheel

The hand wheel is of cast SG iron of an open spoke design. This design is made considering ergonomics allows the ease of hand wheel operation.

# 12 Yoke sleeve/ Bush

The yoke sleeve is of stainless steel material having resistance to wear and corrosion.

# 13 Body-bonnet joint

The joint between body and bonnet is of bolted bonnet type with spiral wound and graphite filler for maximum protection against leak. The bonnet bolting is of alloy steel as per the requirements of API 602, ASME 16.34 and ASME SEC VIII.

# 14 Spring

Spring for Check valve is made of Cold drawn Stainless steel with high resistance to corrosion and able to resist high temperature.

# **Forged Steel Gate Valves**



RATING : ASME Class 800 and 1500

Size : NPS 1/2" TO 2"

# 1 Design Standard

- API 602, ISO-15761, ASME B 16.34

## 2 Standard Female Screwed Ends to:

- B.S.P - B.S 21 - NPT- ASME B1.20.1

# 3 Socket Weld Ends - SW to:

- ASME B16.11

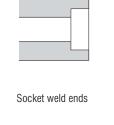
## 4 Butt Weld Ends to:

- ASME B16.25

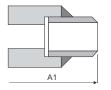
# 5 Fig. 180 is the standard execution.

Length of body A1 is not binding.

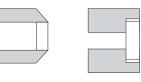
# 6 Testing Standard: API 598



Butt weld end



Socket weld (stub pipe)





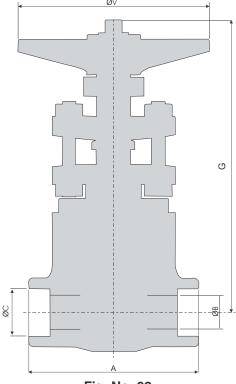


Fig. No. 02

|       | Class 800 |     |       |       |          |        |          |      |  |  |  |  |
|-------|-----------|-----|-------|-------|----------|--------|----------|------|--|--|--|--|
| Size  |           | D   | imens | sions | Material | Weight |          |      |  |  |  |  |
|       | Α         | A1  | В     | С     | G        | ٧      | Schedule | (Kg) |  |  |  |  |
| 1/2"  | 80        | 130 | 16    | 22.2  | 138      | 90     | CS-AS-SS | 1.7  |  |  |  |  |
| 3/4"  | 85        | 130 | 21    | 27.6  | 144      | 90     | CS-AS-SS | 2.1  |  |  |  |  |
| 1"    | 100       | 150 | 27    | 34    | 174      | 102    | CS-AS-SS | 3.5  |  |  |  |  |
| 11/2" | 125       | 180 | 41    | 48.8  | 223      | 140    | CS-AS-SS | 6.6  |  |  |  |  |
| 2"    | 130       | 200 | 52.5  | 61.2  | 244      | 185    | CS-AS-SS | 10   |  |  |  |  |

|       | Class 1500 |     |       |     |          |        |          |      |  |  |  |
|-------|------------|-----|-------|-----|----------|--------|----------|------|--|--|--|
| Size  |            | Di  | mensi | ons | Material | Weight |          |      |  |  |  |
|       | Α          | A1  | В     | С   | G        | V      | Schedule | (Kg) |  |  |  |
| 1/2"  | 90         | 140 | 9.6   | 38  | 152      | 88     | CS-AS-SS | 2.2  |  |  |  |
| 3/4"  | 110        | 185 | 14    | 48  | 190      | 97     | CS-AS-SS | 3.9  |  |  |  |
| 1"    | 127        | 200 | 18    | 56  | 220      | 138    | CS-AS-SS | 6.3  |  |  |  |
| 11/2" | 127        | 200 | 30    | 78  | 282      | 138    | CS-AS-SS | 10.6 |  |  |  |
| 2"    | 210        | 310 | 36.5  | 85  | 345      | 138    | CS-AS-SS | 20.1 |  |  |  |

| Part For fig       | Carbon Steel       | Alloy Steel        | Stainless Steel    |
|--------------------|--------------------|--------------------|--------------------|
| 1. Body            | ASTM A105          | ASTM A182 F22      | ASTM A182 F316     |
| 2. Bonnet          | ASTM A105          | ASTM A182 F22      | ASTM A182 F316     |
| 3. Stem            | ASTM A479 T 410    | ASTM A479 T410     | ASTM A479 T316     |
| 4. Seat-ring       | ASTM A479 T 410    | ASTM A479 T410     | ASTM A479 T 316    |
| 5. Wedge           | ASTM A217 CA15     | ASTM A217 CA15     | ASTM A351 CF8      |
| 6. Gasket          | SWG SS304+GRAPHITE | SWG SS304+GRAPHITE | SWG SS316+GRAPHITE |
| 7. Bolt            | ASTM A193 B7       | ASTM A193 B8       | ASTM A193 B8       |
| 8. Stem Packing    | GRAPHITE MOLDED    | GRAPHITE MOLDED    | GRAPHITE MOLDED    |
|                    | RINGS WITH BRAIDED | RINGS WITH BRAIDED | RINGS WITH BRAIDED |
|                    | TOP & BOTTOM RINGS | TOP & BOTTOM RINGS | TOP & BOTTOM RINGS |
| 9. Gland Bush      | ASTM A479 T 410    | ASTM A479 T410     | ASTM A479 T316     |
| 10. Gland Flange   | ASTM A 105         | ASTM A182 F22      | ASTM A182 F316     |
| 11. Gland Stud     | ASTM A193 B7       | ASTM A193 B8       | ASTM A193 B8       |
| 12. Nut            | ASTM A194 2H       | ASTM A194 8M       | ASTM A194 8M       |
| 13. Hand wheel     | SG IRON            | SG IRON            | SG IRON            |
| 14. Hand wheel Nut | ASTM A194 2H       | ASTM A194 2H       | ASTM A194 2H       |
| 15. Nameplate      | ALUMINIUM          | ALUMINIUM          | ALUMINIUM          |
| 16. Lock Washer    | SPRING STEEL       | SPRING STEEL       | SPRING STEEL       |
| 17. Yoke SLEEVE    | ASTM A582 T 416    | ASTM A582 T416     | ASTM A582 T416     |

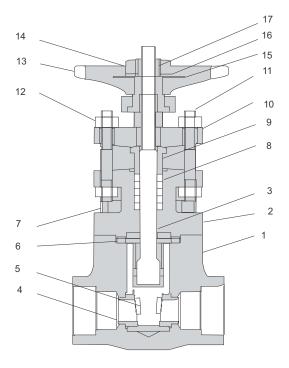


Fig No. 180

# **Forged Steel Globe Valves**

RATING : ASME Class 800 and 1500

Size : NPS 1/2" TO 2"

# 1 Design Standard

- API 602, ISO-15761, ASME B 16.34

#### 2 Standard Female Screwed Ends to:

- B.S.P - B.S 21 - NPT- ASME B1.20.1

#### 3 Socket Weld Ends - SW to:

- ASME B16.11

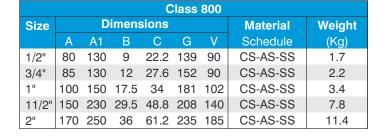
## 4 Butt Weld Ends to:

- ASME B16.25

# 5 Fig. 280 is the standard execution.

Length of body A1 is not binding.

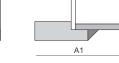
# 6 Testing Standard: API 598



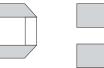


Socket weld ends

Butt weld end



Socket weld (stub pipe)





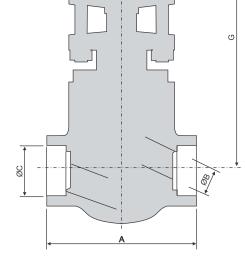


Fig. No. 03

|       | Class 1500 |     |    |    |     |     |          |        |  |  |  |
|-------|------------|-----|----|----|-----|-----|----------|--------|--|--|--|
| Size  | Dimensions |     |    |    |     |     | Material | Weight |  |  |  |
|       | Α          | A1  | В  | С  | G   | V   | Schedule | (Kg)   |  |  |  |
| 1/2"  | 90         | 140 | 9  | 38 | 166 | 88  | CS-AS-SS | 2.2    |  |  |  |
| 3/4"  | 110        | 185 | 12 | 48 | 210 | 97  | CS-AS-SS | 3.8    |  |  |  |
| 1"    | 127        | 200 | 15 | 56 | 250 | 138 | CS-AS-SS | 6.3    |  |  |  |
| 11/2" | 180        | 270 | 27 | 78 | 300 | 172 | CS-AS-SS | 13     |  |  |  |
| 2"    | 210        | 310 | 32 | 85 | 375 | 172 | CS-AS-SS | 21.7   |  |  |  |

| Part for fig       | Carbon Steel       | Alloy Steel        | Stainless Steel    |
|--------------------|--------------------|--------------------|--------------------|
| 1. Body            | ASTM A105          | ASTM A182 F22      | ASTM A182 F316     |
| 2. Bonnet          | ASTM A105          | ASTM A182 F22      | ASTM A182 F316     |
| 3. Stem            | ASTM A479 T 410    | ASTM A479 T410     | ASTM A479 T316     |
| 4. Plug            | ASTM A217 CA15     | ASTM A217 CA15     | ASTM A351 CF8M     |
| 5. Gasket          | SWG SS304+         | SWG SS304+         | SWG SS316+         |
|                    | GRAPHITE           | GRAPHITE           | GRAPHITE           |
| 6. Bolt            | ASTM A193 B7       | ASTM A193 B8       | ASTM A193 B8       |
| 7. Stem Packing    | GRAPHITE MOLDED    | GRAPHITE MOLDED    | GRAPHITE MOLDED    |
|                    | RINGS WITH BRAIDED | RINGS WITH BRAIDED | RINGS WITH BRAIDED |
|                    | TOP & BOTTOM RINGS | TOP & BOTTOM RINGS | TOP & BOTTOM RINGS |
| 8. Gland Bush      | ASTM A479 T410     | ASTM A479 T 410    | ASTM A479 T 316    |
| 9. Gland Flange    | ASTM A105          | ASTM A182 F22      | ASTM A182 F316     |
| 10. Gland Stud     | ASTM A193 B7       | ASTM A193 B8       | ASTM A193 B8       |
| 11. Nut            | ASTM A194 2H       | ASTM A194 8M       | ASTM A194 8M       |
| 12. Hand wheel     | SG IRON            | SG IRON            | SG IRON            |
| 13. Hand wheel Nut | ASTM A194 2H       | ASTM A194 2H       | ASTM A194 2H       |
| 14. Lock Washer    | SPRING STEEL       | SPRING STEEL       | SPRING STEEL       |
| 15. Nameplate      | ALUMINIUM          | ALUMINIUM          | ALUMINIUM          |
| 16. Yoke Bush      | ASTM A582 T 416    | ASTM A582 T 416    | ASTM A582 T 416    |

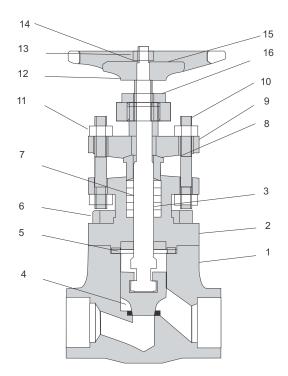


Fig No. 280



RATING: ASME Class 800 and 1500

Size : NPS 1/2" TO 2"

# 1 Design Standard

- API 602, ISO-15761, ASME B 16.34

## 2 Standard Female Screwed Ends to:

- B.S.P - B.S 21 - NPT- ASME B1.20.1

# 3 Socket Weld Ends - SW to:

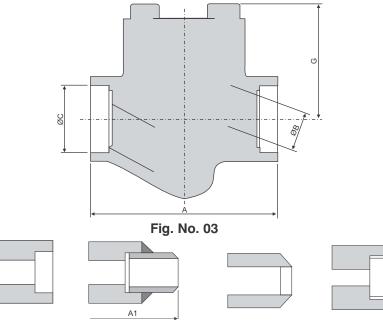
- ASME B16.11

# 4 Butt Weld Ends to:

- ASME B16.25

# **5 Fig. 380 is the standard execution.** Length of body A1 is not binding.

6 Testing Standard: API 598



Socket weld ends

Socket weld (stub pipe)

Butt weld end

Screwed Ends

|       | Class 800 |     |       |      |     |          |        |  |  |  |  |
|-------|-----------|-----|-------|------|-----|----------|--------|--|--|--|--|
| Size  |           | Dim | ensio | ns   |     | Material | Weight |  |  |  |  |
|       | Α         | A1  | В     | С    | G   | Schedule | (Kg)   |  |  |  |  |
| 1/2"  | 80        | 130 | 9     | 22.2 | 52  | CS-AS-SS | 1.12   |  |  |  |  |
| 3/4"  | 85        | 130 | 12    | 27.6 | 62  | CS-AS-SS | 1.49   |  |  |  |  |
| 1"    | 100       | 150 | 17.5  | 34   | 67  | CS-AS-SS | 2.3    |  |  |  |  |
| 11/2" | 150       | 230 | 29.5  | 48.8 | 83  | CS-AS-SS | 5.5    |  |  |  |  |
| 2"    | 170       | 250 | 36    | 61.2 | 104 | CS-AS-SS | 8.91   |  |  |  |  |

|       | Class 1500 |      |       |    |     |          |        |  |  |  |  |
|-------|------------|------|-------|----|-----|----------|--------|--|--|--|--|
| Size  |            | Dime | nsior | าร |     | Material | Weight |  |  |  |  |
|       | Α          | A1   | В     | С  | G   | Schedule | (Kg)   |  |  |  |  |
| 1/2"  | 90         | 140  | 9     | 38 | 60  | CS-AS-SS | 1.5    |  |  |  |  |
| 3/4"  | 110        | 185  | 12    | 48 | 78  | CS-AS-SS | 3.0    |  |  |  |  |
| 1"    | 127        | 200  | 15    | 56 | 88  | CS-AS-SS | 4.2    |  |  |  |  |
| 11/2" | 180        | 270  | 27    | 78 | 108 | CS-AS-SS | 9.9    |  |  |  |  |
| 2"    | 210        | 310  | 32    | 85 | 145 | CS-AS-SS | 17.5   |  |  |  |  |

| Part for fig | Carbon Steel       | Alloy Steel        | Stainless Steel    |
|--------------|--------------------|--------------------|--------------------|
| 1. Body      | ASTM A105          | ASTM A182 F22      | ASTM A182 F316     |
| 2. Cover     | ASTM A105          | ASTM A182 F22      | ASTM A182 F316     |
| 3. Bolt      | ASTM A193 B7       | ASTM A193 B8       | ASTM A193 B8       |
| 4. Plug      | ASTM A479 T 410    | ASTM A479 T 410    | ASTM A479 T316     |
| 5. Spring    | ASTM A313 T 302    | ASTM A313 T 302    | ASTM A313 T 302    |
| 6. Gasket    | SWG SS304+GRAPHITE | SWG SS304+GRAPHITE | SWG SS316+GRAPHITE |
| 7. Nameplate | Aluminium          | Aluminium          | Aluminium          |
| 8. Rivet     | Aluminium          | Aluminium          | Aluminium          |

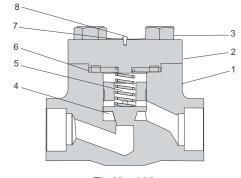


Fig No. 380

# **API TRIM MATERIALS**

| Trim No.  |                 | Seating Surfaces |               |
|-----------|-----------------|------------------|---------------|
| (API 602) | Stem Material   | Disc             | Body Seat     |
| 1         | ASTM A479 T 410 | 13% Cr. STEEL    | 13% Cr. STEEL |
| 5         | ASTM A479 T 410 | HF               | HF            |
| 8         | ASTM A479 T 410 | 13% Cr. STEEL    | HF            |
| 2         | ASTM A479 T 304 | SS 304           | SS 304        |
| 10        | ASTM A479 T 316 | SS 316           | SS 316        |
| 12        | ASTM A479 T 316 | SS 316           | HF            |
| 15        | ASTM A479 T 304 | SS 304 + HF      | HF            |
| 16        | ASTM A479 T 316 | SS 304 + HF      | HF            |

# **BODY TRIM COMBINATIONS**

| Body & Bonnet/Cover | API Trim Numbers |
|---------------------|------------------|
| ASTM A105           | 01/ 08/ 05       |
| ASTM A182 GR. F5    | 08 / 05          |
| ASTM A182 GR. F9    | 08 / 05          |
| ASTM A182 GR. F11   | 08 / 05          |
| ASTM A182 GR. F22   | 08 / 05          |
| ASTM A182 GR. F304  | 08 / 05          |
| ASTM A182 GR. F316  | 10/ 12/ 16       |
| ASTM A350 GR. LF2   | 08/ 16           |

# **ORDERING CODE INFORMATION**

While ordering Bonetti® Forged Steel GGC Valves please specify following information.

| - |                       |                |             |                   |               |                    |             |      |
|---|-----------------------|----------------|-------------|-------------------|---------------|--------------------|-------------|------|
| Α | TYPE OF VALVE         |                |             |                   |               |                    |             | WA   |
|   | WA=GATE               |                |             |                   |               |                    |             |      |
|   | WE=GLOBE              |                |             |                   |               |                    |             |      |
|   | WK=CHECK              |                |             |                   |               |                    |             |      |
|   |                       |                |             |                   |               |                    |             |      |
| В | VALVE SIZE            |                |             |                   |               |                    |             | H1   |
|   | H1=1/2"               | 1H=1 1/2"      |             |                   |               |                    |             |      |
|   | 7X = 3/4"             | X2=2"          |             |                   |               |                    |             |      |
|   | X1=1"                 |                |             |                   |               |                    |             |      |
|   |                       |                |             |                   |               |                    |             |      |
| C | CLASS & END DETAIL    |                |             |                   |               |                    |             | 23   |
|   | 23=800# SOCKET WELD   | ) 27=80        | 0# SCREWEI  | n RSP             | 36=1500# S0   | REWED NPT          |             | -    |
|   | 24=800# BUTT WELD     | 2. 00          | 00# SOCKET  |                   | 37=1500# SC   |                    |             |      |
|   | 26=800# SCREWED NPT   | _              | 00# BUTT W  |                   | 01 – 1000% 00 | TILVVED DOI        |             |      |
|   |                       | . 04-10        | OO# DOTT W  | LLD               |               |                    |             |      |
| D | BODY & BOLTING MATER  | RIAL           |             |                   |               |                    |             | 03   |
| D | 03=A105,A193 B7/A194  |                | 06=A182 F   | -<br>11,A193 B7/A | 194 2H        | 45=A182 F22 A193 I | 316/A194 8M | - 00 |
|   | 04=A350 LF2 A193 B7/A |                |             |                   |               | 47=A182 F316 A193  |             |      |
|   | 05=A182 F316, A193B7/ |                |             | 91 A193 B8/A      |               | 51=A182 F316 A193  |             |      |
|   | 05-A1021310, A133D1/  | A134 ZII       | 00-111021   | 317(130 00/7)     | 1104 0101     | 01-1102101011100   | DOW/TO TOW  |      |
| Е | TRIM                  |                |             |                   |               |                    |             | Λ-4  |
| E | A1=API TRIM 1         | A4=API TRIM    | ο Λ.        | 7=API TRIM 1      | 2             |                    |             | A1   |
|   | A2=API TRIM 2         |                |             |                   |               |                    |             |      |
|   |                       | A5=API TRIM    |             | 8=API TRIM 1      |               |                    |             |      |
|   | A3=API TRIM 5         | A6=API TRIM    | 10 6        | 7=API TRIM 1      | 5             |                    |             |      |
| F | GASKET MATERIAL       |                |             |                   |               |                    |             | D1   |
|   | D1=SWG 304 GRAPHITE   |                |             |                   |               |                    |             | וט   |
|   | 17=SWG 316 GRAPHITE   |                |             |                   |               |                    |             |      |
|   | II — SWG STO GNAFTIIL |                |             |                   |               |                    |             |      |
| G | STEM MATERIAL         |                |             |                   |               |                    |             | 2    |
| u | 2=A479 T410           |                |             |                   |               |                    |             | 2    |
|   | 7=A479 T316           |                |             |                   |               |                    |             |      |
|   | 1=A419 1310           |                |             |                   |               |                    |             |      |
|   | ACTUATOR & ACCESSOR   | 150            |             |                   |               |                    |             | 00   |
| Н | ACTUATOR & ACCESSOR   | IE8            |             |                   |               |                    |             | 02   |
|   | 02=HANDWHEEL          | TION INDIOATOR |             |                   |               |                    |             |      |
|   | 03=HANDWHEEL &POSIT   |                | Í           |                   |               |                    |             |      |
|   | 34=PNEUMATIC ACTUAT   |                |             |                   |               |                    |             |      |
|   | 38=ELECTRIC ACTUATOR  |                |             |                   |               |                    |             |      |
|   | 76=HANDWHEEL+LOCK     | ING DEVICE     |             |                   |               |                    |             |      |
|   | INODEOTION            |                |             |                   |               |                    |             |      |
| ı | INSPECTION            | F FIDE 0.45    | T TEOT      |                   |               |                    |             | 0    |
|   | 0=STANDARD            | F=FIRE SAF     |             |                   |               |                    |             |      |
|   | 2= IBR                | 9=ULTRAS(      |             |                   |               |                    |             |      |
|   | 3=API                 | T= CUSTON      |             | INICDECTION: A    | ND DVE DENET  | DANT               |             |      |
|   | 8=RADIOGRAPHY         | B=MAGNE I      | IC PARTICLE | INSPECTION A      | IND DYE PENET | KANT               |             |      |
|   |                       |                |             |                   |               |                    |             |      |
| J | SPECIAL REQUIREMENT   |                |             |                   |               |                    |             | 00   |
|   | 00=NONE               |                |             |                   |               |                    |             |      |
|   |                       |                |             |                   |               |                    |             |      |

#### Example:

 $WAH12303A1D1702000: Gate\ Valve\ 1/2"\ Class\ 800\ Socket\ weld\ , MOC\ 105, API\ Trim\ 1,\ Gasket\ material\ SWG\ 304\ GRAPHITE, \\ Stem\ material\ A479\ T410,\ handwheel\ operated\ with\ no\ special\ requirements.$ 

<sup>1.</sup>CESARE BONETTI RESERVES THE RIGHT TO CARRY OUT NECESSARY AMENDMENTS TO PRODUCT, MATERIALS & SPECIFIED DIMENSION.

<sup>2.</sup>AMENDMENTS OR MODIFICATIONS TO DRAWING AND MATERIALS CAN BE DONE TO COMPLY WITH PARTICULAR CUSTOMER'S REQUEST OR TECHNICAL SPECIFICATION. 3.FOR SPECIAL REQUIREMENTS PLEASE CONTACT BONETTI SALES TEAM.









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