

## FORGED CARBON STEEL A350LF2 GATE VALVE CLASS 800 TRIM 12 SW

Forged carbon steel gate valve TRIM12 SW Class 800 full bore for petroleum industry, steam, oil and gas and high pressure.  
Rising non rotating stem (OS&Y) with bolted bonnet.  
Graphite packing and stainless steel + graphite bonnet gasket.  
Compatible with explosive atmosphere, ATEX Zone 1&21 and Zone 2&22.



**Certificate**  
**3.1**



**Size :** DN15 to DN50 (NPS 1/2" to 2")  
**Connection :** SW  
**Min Temperature :** -46°C  
**Max Temperature :** +425°C  
**Max Pressure :** 136 Bars (Class 800)  
**Specifications :** Rising non rotating stem (OS&Y)  
Bolted bonnet and gland pack  
Full bore

**Materials :** Forged carbon steel ASTM A350 LF2

**FORGED CARBON STEEL A350LF2 GATE VALVE CLASS 800 TRIM 12 SW**

**SPECIFICATIONS :**

- Full bore
- Rising non rotating stem (OS&Y)
- Bolted bonnet
- Bolted gland pack
- Forged carbon steel ASTM A 350 LF2
- 1/2 stellite ( Trim 12 )
- Class 800

**USE :**

- Petroleum industry, steam, high pressure
- Min and max Temperature Ts : - 46°C to + 425°C
- Max Pressure Ps : 136 bars ( see graph )

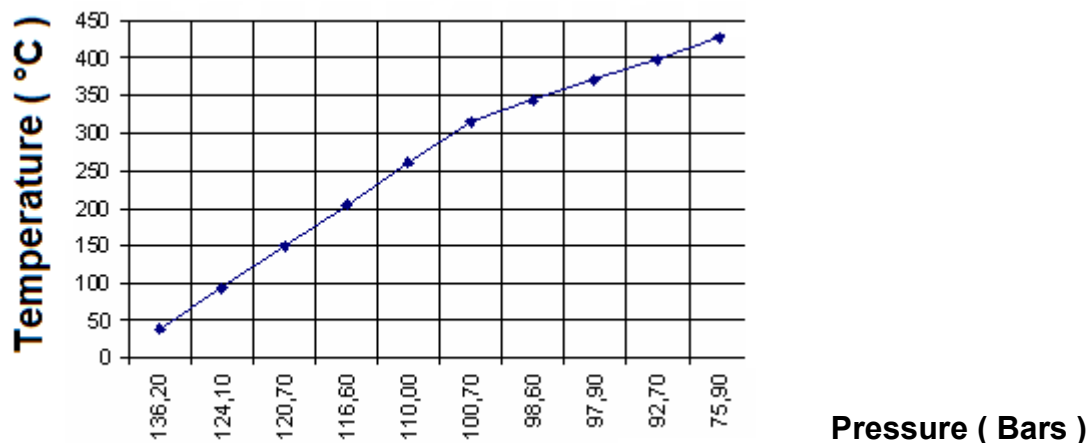
**FLOW COEFFICIENT Kvs ( M3 / h ) :**

| DN (mm)      | 15   | 20   | 25   | 32    | 40    | 50   |
|--------------|------|------|------|-------|-------|------|
| NPS (")      | 1/2" | 3/4" | 1"   | 1"1/4 | 1"1/2 | 2"   |
| Kvs ( m3/h ) | 10   | 23   | 47.2 | 69    | 75.2  | 93.4 |

**PRESSURE / TEMPERATURE RELATION :**

| Pressure (bar)   | 136.2 | 136.2 | 136.2 | 124,1 | 120,7 | 116,6 | 110 | 100,7 | 98,6  | 97,9 | 92,7 | 75,9 |
|------------------|-------|-------|-------|-------|-------|-------|-----|-------|-------|------|------|------|
| Temperature (°C) | -46   | 0     | 38    | 93,5  | 149   | 204,5 | 260 | 315,5 | 343,5 | 371  | 399  | 425  |

**PRESSURE / TEMPERATURE GRAPH :**

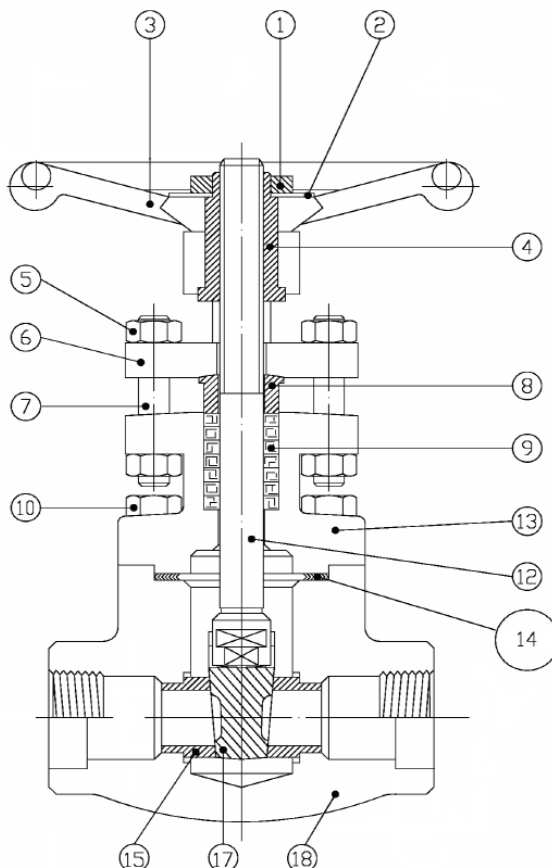


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**RANGE :**

- Forged A350LF2 carbon steel gate valve TRIM 12 with SW ends **Ref.119** from DN 15 to 50 ( NPS 1/2" to 2" )

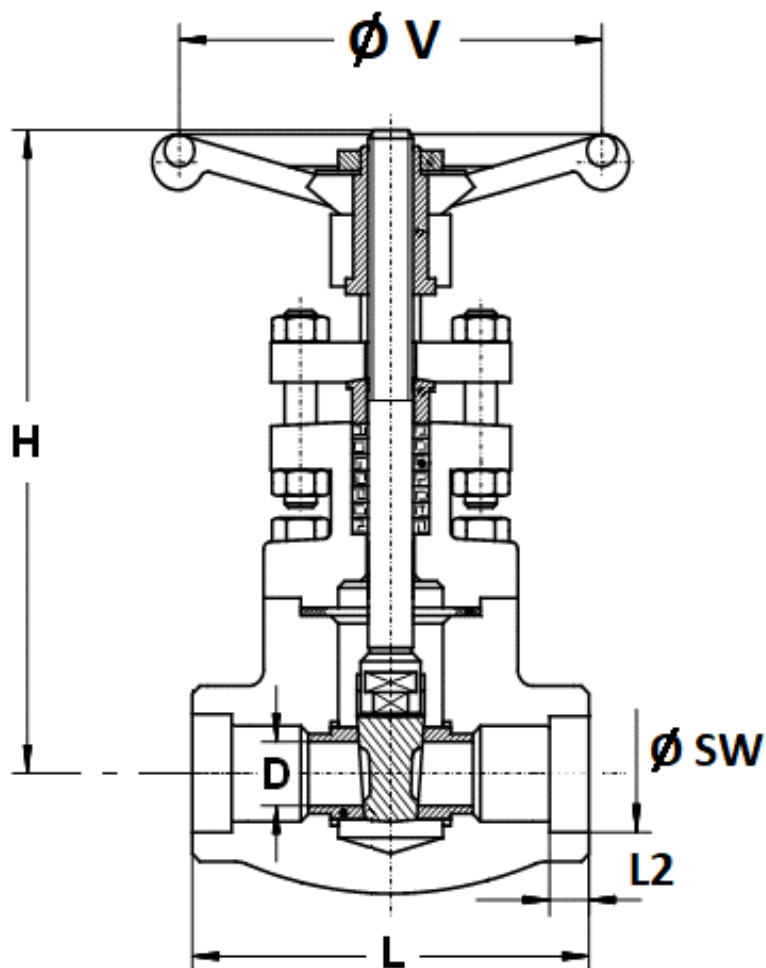
**MATERIALS :**



| Item | Designation    | Materials                                |
|------|----------------|------------------------------------------|
| 1    | Handwheel nut  | Carbon steel                             |
| 2    | ID plate       | Aluminium                                |
| 3    | Handwheel      | Carbon steel                             |
| 4    | Yoke nut       | ASTM A473 type 416                       |
| 5    | Gland pack nut | ASTM A194 Gr.4                           |
| 6    | Gland flange   | ASTM A182 F6a CI 2                       |
| 7    | Gland stud     | ASTM A320 L7                             |
| 8    | Gland pack     | UNS S31600/S31603                        |
| 9    | Packing        | Graphite                                 |
| 10   | Screw          | ASTM A320 L7                             |
| 12   | Stem           | ASTM A479 316/316L                       |
| 13   | Bonnet         | ASTM A350 LF2                            |
| 14   | Gasket         | AISI 316 + graphite spiral               |
| 15   | Seat           | ASTM A479 S31600/S31603 + Stellite GR.6' |
| 17   | Wedge          | ASTM A182 316/316L                       |
| 18   | Body           | ASTM A350 LF2                            |

**FORGED CARBON STEEL A350LF2 GATE VALVE CLASS 800 TRIM 12 SW**

**SIZE ( in mm ) :**



| DN (mm)        | 15     | 20     | 25     | 40     | 50     |
|----------------|--------|--------|--------|--------|--------|
| NPS (")        | 1/2"   | 3/4"   | 1"     | 1"1/2  | 2"     |
| Ø D            | 14     | 18     | 24     | 36.5   | 48     |
| L              | 90     | 110    | 127    | 127    | 150    |
| H ( opened )   | 155    | 178    | 210    | 262    | 327    |
| Ø V            | 80     | 110    | 110    | 130    | 180    |
| L2 ( SW )      | 12.7   | 14.5   | 16     | 19     | 22     |
| Ø SW           | 21.8   | 27.2   | 33.9   | 48.8   | 61.2   |
| Weight (in Kg) | 2.2    | 3.5    | 5      | 9      | 15.6   |
| Ref.           | 119015 | 119020 | 119025 | 119040 | 119050 |

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Rev.04

Information provided as an indication and subject to possible modification

**FORGED CARBON STEEL A350LF2 GATE VALVE CLASS 800 TRIM 12 SW****STANDARDS :**

- Manufacturer certified **ISO 9001 : 2015**
- DIRECTIVE 2014/68/EU: For liquids or Gas of Group 1
  - DN15-25 (NPS 1/2"-1") : Article 4, §3 (SEP), no CE marking
  - DN40-50 (NPS 1"1/2-2") : Risk category II, CE 0036 marking
- Certificate 3.1 on request
- Designing according to **ISO 15761** and **API 602** 8th
- Pressure Tests according to **API 598, table 6**
- Valves approved by the main oil industries ( certificates on request )
- ATEX Group II Category 2 GD T3 Zone 1 & 21 Zone 2 & 22 ( optional marking ) according to directive 2014/34/EU
- SW ends according to **ISO 15761**

**ADVICE :** Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages.  
The customer must check the right choice of the products with the real service conditions.