

Ref. : V5241

Rev. : Initial

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# FLANGED CARBON STEEL GATE VALVE WITH BOLTED BONNET 300LBS

V5241

ISO 9001  
BUREAU VERITAS  
Certification

EAC


**Tecofi'**  
VALVE DESIGNER - FRANCE

## APPLICATION

General use: Water distribution, gas oil, steam, petrochemical, petroleum industry, gas.

## GENERAL CHARACTERISTICS

Full bore  
Rising, non-rotating stem  
Fixed non rising handwheel  
Flexible one piece wedge  
Flanges R.F. ISO PN50 ANSI 300  
Carbon steel body  
Bolted bonnet and gland pack  
½ stellite ( Trim 8 , seat with stellite )  
Grey painting RAL 7001 color, 60 µm thickness

## CONSTRUCTION

| 14   | Handwheel     | Cast iron                       |
|------|---------------|---------------------------------|
| 13   | Ring          | Steel E51100                    |
| 12   | Stem nut      | Aluminium + Bronze              |
| 11   | Yoke          | Steel ASTM A216 WCB             |
| 10   | Packing       | Flexible graphite               |
| 9    | Seal bushing  | ASTM A276-420                   |
| 8    | Bonnet        | Steel ASTM A216 WCB             |
| 7    | Bonnet gasket | Stainless steel 304 + graphite  |
| 6    | Nut           | ASTM A194 Gr 2H                 |
| 5    | Tie rod       | ASTM A193 Gr B7                 |
| 4    | Stem          | ASTM A182 F6a                   |
| 3    | Wedge         | Steel ASTM A216 WCB + 13Cr      |
| 2    | Seat          | Steel ASTM A105 + Stellite Gr.6 |
| 1    | Body          | Steel ASTM A216 WCB             |
| Pos. | Description   | Material                        |

## DIMENSIONS

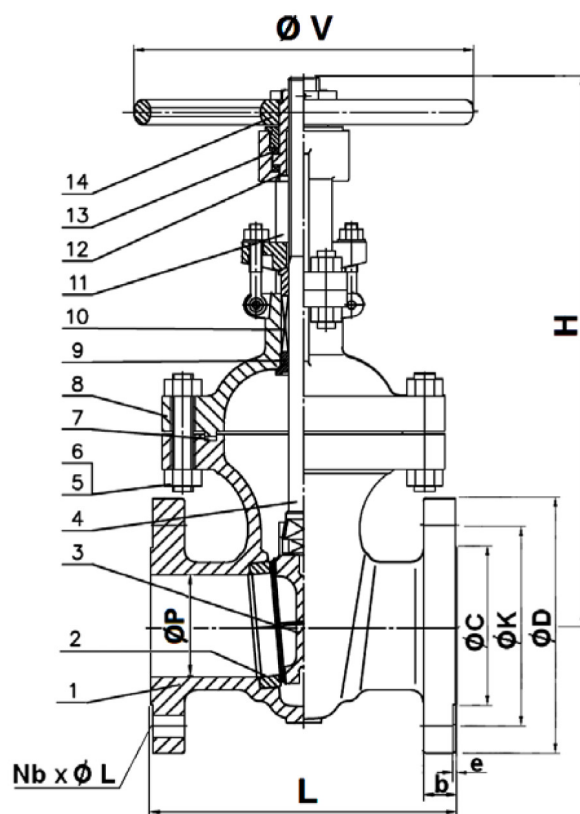
| DN  | L    | H<br>(opened) | H<br>(closed) | ØV   | ØP  | ØC  | ØK    | ØD    | NbxØL | e     | b | Weight<br>(kg) |
|-----|------|---------------|---------------|------|-----|-----|-------|-------|-------|-------|---|----------------|
| mm  | inch |               |               |      |     |     |       |       |       |       |   |                |
| 50  | 2"   | 216           | 304           | 254  | 240 | 51  | 92.1  | 127   | 165   | 8x19  | 2 | 22.7           |
| 80  | 3"   | 283           | 521           | 445  | 280 | 76  | 127   | 168.3 | 210   | 8x22  | 2 | 29             |
| 100 | 4"   | 305           | 606           | 504  | 300 | 102 | 157.2 | 200   | 255   | 8x22  | 2 | 32.2           |
| 150 | 5"   | 403           | 795           | 643  | 400 | 152 | 215.9 | 269.9 | 320   | 12x22 | 2 | 37             |
| 200 | 8"   | 419           | 987           | 784  | 400 | 203 | 269.9 | 320.2 | 380   | 12x26 | 2 | 41.7           |
| 250 | 10"  | 457           | 1228          | 974  | 500 | 254 | 323.8 | 387.4 | 445   | 16x29 | 2 | 48.1           |
| 300 | 12"  | 502           | 1418          | 1113 | 500 | 305 | 381   | 450.8 | 520   | 16x32 | 2 | 51.3           |
| 350 | 14"  | 762           | 1574          | 1214 | 600 | 334 | 412.8 | 514.4 | 585   | 20x32 | 2 | 54.4           |

## WORKING CONDITIONS

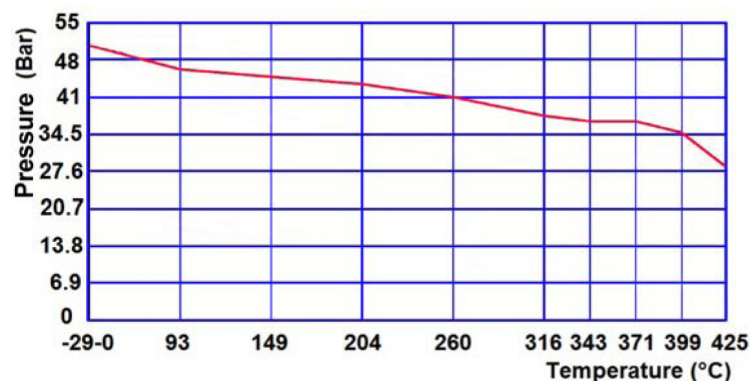
Maximum working pressure : 50 bar.  
Maximum working temperature : -29°C/+425°C.

## STANDARDS

Fabrication according to ISO 9001 : 2008  
DIRECTIVE 2014/68/UE  
Risk category III H  
Designing according to API 600  
Tests according to API 598  
Face to face according to ASME B16.10, table 2 A10 series  
Flanges R.F. according to ASME B16.05  
ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 & 22  
Approval certificate Russian **GOST-R**



## PRESSURE / TEMPERATURE GRAPH



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