

Ref. : VG 6400-051.pas

Rev. : L

Date : 29/04/2014

Page : 1/1

# KNIFE GATE VALVE WITH SQUARE DRIVING NON RISING STEM

VG 6400-051



**Tecofi'**  
VALVE DESIGNER - FRANCE

## APPLICATION

General use : Pulp production, water, water treatment, waste water, chemical industry ( powdery or crystallizing products), wine-producing, pulverized products (cement work, pneumatic transport, stocking).

## GENERAL CHARACTERISTICS

Function ON/OFF or regulation.

Wafer threaded mounting ISO PN10.

Unidirectional tightness, direction indication thanks to the arrow on the body.

Small retention zone: the gate is guided in the body and has little clearance.

Gland assembly: packing and O-ring (same material as seat joint) to assure the elasticity and decrease the operating torque.

Small head loss.

Possibility to regulate thick fluids with the adaptation of a diaphragm ring .

## CONSTRUCTION

|      |      |                 |                                      |                                                                  |
|------|------|-----------------|--------------------------------------|------------------------------------------------------------------|
| 14** | 1    | Support ring    | Stainless steel 316                  | DIN : X5CrNiMo18 10<br>ASTM : A 182 AISI 316<br>BS : 316 S16     |
| 13   | 1    | Spring pin      | Stainless steel                      |                                                                  |
| 12   | 1    | Friction washer | Bronze                               |                                                                  |
| 11   | 1    | Square driving  | Cast iron<br>EN-GJL-250              | DIN : GG 25<br>ASTM : A48 class 40B<br>BS : 1452 Grade 250       |
| 10** | 1    | Gasket          | EPDM                                 |                                                                  |
| 9    | 1    | O-ring          | EPDM                                 |                                                                  |
| 8    | 1    | Packing gland   | Stainless steel                      |                                                                  |
| 7    | 1    | Nut             | Bronze                               |                                                                  |
| 6    | 1    | Nut support     | Zinc steel                           |                                                                  |
| 5*   | 2    | Support plate   | Steel + epoxy                        |                                                                  |
| 4    | 1    | Stem            | Stainless steel 13%Cr                |                                                                  |
| 3    | 1    | Knife gate      | Stainless steel<br>X5CrNiMo 17-12-2  | DIN : X5CrNiMo18 10<br>ASTM : A 182 AISI 316<br>BS : 316 S16     |
| 2    | 2    | Packing         | PTFE                                 |                                                                  |
| 1    | 1    | Body            | Stainless steel<br>GX5CrNiMo 19-11-2 | DIN : G-X6CrNiMo18-10<br>ASTM : A 351 Grade CF8M<br>BS : 316 C16 |
| Pos. | Qty. | Description     | Material                             |                                                                  |

\*Pre-shaped parts up to DN 300.

\*\* Missing parts on metal / metal tightness.

## DIMENSIONS

| DN  |        | A   | B    | C   | D   | H    | Ø K | n  | Ø M    | Weight (kg) |
|-----|--------|-----|------|-----|-----|------|-----|----|--------|-------------|
| mm  | inch   |     |      |     |     |      |     |    |        |             |
| 50  | 2"     | 40  | 240  | 124 | 83  | 327  | 125 | 4  | 4-M16  | 8           |
| 65  | 2 1/2" | 40  | 265  | 139 | 83  | 352  | 145 | 4  | 4-M16  | 10          |
| 80  | 3"     | 50  | 290  | 154 | 83  | 377  | 160 | 8  | 4-M16  | 11          |
| 100 | 4"     | 50  | 335  | 174 | 83  | 422  | 180 | 8  | 4-M16  | 12          |
| 125 | 5"     | 50  | 373  | 189 | 93  | 463  | 210 | 8  | 4-M16  | 17          |
| 150 | 6"     | 60  | 424  | 220 | 93  | 514  | 240 | 8  | 4-M20  | 21          |
| 200 | 8"     | 60  | 533  | 275 | 108 | 628  | 295 | 8  | 4-M20  | 38          |
| 250 | 10"    | 70  | 625  | 326 | 108 | 720  | 350 | 12 | 8-M20  | 52          |
| 300 | 12"    | 70  | 732  | 380 | 108 | 827  | 400 | 12 | 8-M20  | 63          |
| 350 | 14"    | 96  | 835  | 438 | 290 | 941  | 460 | 16 | 10-M20 | 115         |
| 400 | 16"    | 100 | 913  | 494 | 290 | 1051 | 515 | 16 | 10-M24 | 145         |
| 450 | 18"    | 106 | 1003 | 547 | 290 | 1146 | 565 | 20 | 14-M24 | 186         |
| 500 | 20"    | 110 | 1040 | 613 | 290 | 1256 | 620 | 20 | 14-M24 | 221         |
| 600 | 24"    | 110 | 1153 | 716 | 290 | 1460 | 725 | 20 | 14-M27 | 265         |

## WORKING CONDITIONS

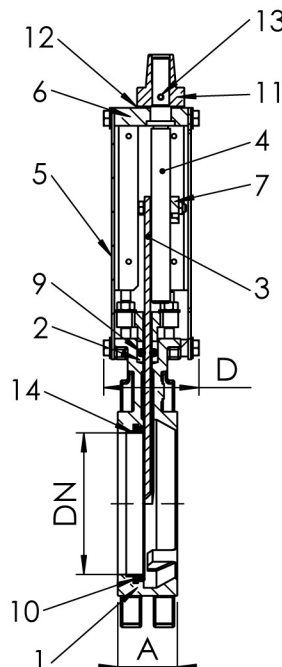
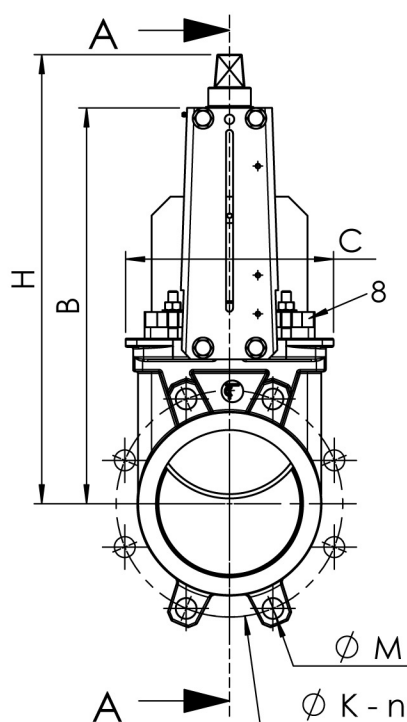
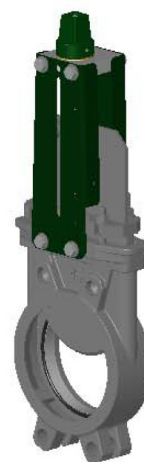
Maximum working pressure : DN 50-250 : 10 bar

DN 300-450 : 7 bar

DN 500-600 : 4 bar

Maximum temperature : -10°C / +130°C (standard tightness)

| Others materials on request (If marked) | Maximum temperature     |                          |
|-----------------------------------------|-------------------------|--------------------------|
| Metal / metal                           | T max : -10°C / +130°C. | <input type="checkbox"/> |
| NBR                                     | T max : -10°C / +80°C.  | <input type="checkbox"/> |
| White EPDM                              | T max : -10°C / +130°C. | <input type="checkbox"/> |
| Silicone                                | T max : -10°C / +170°C. | <input type="checkbox"/> |
| FPM (Type Viton®)                       | T max : -10°C / +170°C. | <input type="checkbox"/> |
| PTFE                                    | T max : +4°C / +170°C.  | <input type="checkbox"/> |
| CSM (Type Hypalon®)                     | T max : +4°C / +80°C.   | <input type="checkbox"/> |



Standard  
tightness



Metal / metal  
tightness

## STANDARDS

Manufacture according to the requirements of the European directive 2014/68/UE «Equipments under pressure» : modulate H.

On request : Product in accordance to european directive

"Potentially explosive atmospheres" N° 94/9/EC :

ATEX II 2 GD c and ATEX II 3 GD c.

Test procedures are established according to standard EN 12266-1, DIN 3230, BS 5154 and ISO 5208.

Connections according to standard EN 1092-2 and DIN 2501 : ISO PN10.

**TECOFI France** - 83, Rue Marcel Mérieux 69960 Corbas - FRANCE  
Tél. +33 (0) 4 72 79 05 79 - Fax +33 (0) 4 78 90 19 19 / +33 (0) 4 72 79 05 70  
Adresses e-mail : sales@tecofi.fr ; tecofi@tecofi.fr / Site web : www.tecofi.fr