

WEY®

# KNIFE GATE VALVES

## VN SERIES



# VN SERIES

The VN series combines all the properties of a knife gate valve in an inexpensive semi-lug flange design, in order to meet the most common market requirements. With this series, we guarantee the greatest possible functional and operational safety, in an easy-to-maintain, optimized design. We guarantee a 100 % bidirectional bubble-tight shut off over the entire pressure range. For many applications this results in a balanced cost-benefit ratio in terms of investment and maintenance.



## CHARACTERISTICS VN SERIES

---

**50 – 1400 mm**

Nominal sizes

---

**Stainless steel, Cast iron, Special material**

Material

---

**0 – 10 bar**

Pressure rating

---

**PN10, BS10-D, BS10-E, AS2129-D, AS2129-E**

Flange drilling

---

**EN 558 series 20**

Face to face dimension

---



The robust metal yoke enables the optimal, simple assembly of mechanical or inductive limit switches. The yoke can be removed from one side. This makes it easier to access the mechanical parts.



With its optimized gate geometry, accumulated media is pushed out of the gate guide and flushed out into the bore by the increased flow.



A unique transverse seal, consisting of a transverse seal profile and packing compound, makes the body bubble-tight towards the atmosphere.



The transverse seal can be repacked at any time and under full pressure using the lateral packing screws.



A mechanically retained round cord seal creates a bubble-tight shut off on the gate edge.



The gate is mechanically guided over the full stroke.

## **APPLICATION AREAS**

### **Biogas plants**

e.g. Food waste, Household waste, Wood chips, Manure, Substrates, Other renewable resources ...

### **Mining**

e.g. Coal dust, Mining slurry, Sinter water, Tailings, Acids and phosphates ...

### **Chemical and petrochemical industries**

e.g. Viscous pastes, Granulates, Chemically contaminated waste water, Bitumen/tar ...

### **Infrastructure**

e.g. Waste water, Rainwater, Industrial water, Mixed water ...

### **Food and beverage**

e.g. Syrups, juices and beverages, Cereal, vegetable, mash, etc., Processed fruits, Cheese powder, Cocoa beans ...

### **Pulp and paper industry**

e.g. Pulp Stock (Low to high density), Liquor (black, white, green), Chemical solutions, bleaching agents, Recycling tissue ...

### **Waste water treatment plants**

e.g. Waste water, Raw water, Sludge, Digested sludge, Floating sludge ...

### **Water treatment**

e.g. Seawater, Saltwater ...



Case Study – Munksjö paper mill

**Wey knife gate valves VN in paper production in Spain**

PDF

## MATERIAL OF CONSTRUCTION

| Part              | Cast iron    | Stainless steel |
|-------------------|--------------|-----------------|
| Body              | EN-GJL-250   | 1.4408          |
| Gate              | 1.4301       | 1.4404*         |
| Seal              | NBR          | NBR             |
| Topwork           | Carbon steel | Carbon steel    |
| Stem / Piston rod | 1.4104       | 1.4104          |

Other materials upon request

\*hard chromed

## CORROSION PROTECTION

|         |                 |
|---------|-----------------|
| Body    | EKB powder coat |
| Topwork | EKB powder coat |

## ACTUATORS



**Handwheel**

---



**Manual lever**

---



**Bevel gear**

---



**Pneumatic cylinder**

---



**Hydraulic cylinder**

---



**Electric actuator**

---

## DOWNLOADS

### General documents

---

|  |     |   |
|--|-----|---|
| Product brochure knife gate valves               | PDF |    |
| Instruction manual                               | PDF |    |
| Actuators and accessories                        | PDF |    |
| Material options                                 | PDF |    |
| Seal arrangement                                 | PDF |    |
| Lubricants                                       | PDF |    |
| Declaration of conformity PED                    | PDF |   |
| Declaration of conformity Machinery Directive    | PDF |  |
| Declaration of incorporation Machinery Directive | PDF |  |
| Cutter-Pack Weyotine                             | PDF |  |
| Tender invitation text                           | PDF |  |

---

## Data sheets

---

|  |             |   |
|--|-------------|---|
| VN with handwheel                                      | 2.4.10 PDF  |  |
| VN with manual lever                                   | 2.4.20 PDF  |  |
| VN with pneumatic cylinder                             | 2.4.30 PDF  |  |
| VN with electric actuator                              | 2.4.40 PDF  |  |
| VN regulating knife gate valve with pneumatic cylinder | 2.19.10 PDF |  |
| VN stem extensions                                     | 2.20.10 PDF |  |

---

## CAD files

---

|   |     |   |
|---|-----|---|
| VN with handwheel 2D (DXF/DWG)          | ZIP |    |
| VN with handwheel 3D (STEP)             | ZIP |    |
| VN with bevel gear 2D (DXF/DWG)         | ZIP |    |
| VN with bevel gear 3D (STEP)            | ZIP |    |
| VN with manual lever 2D (DXF/DWG)       | ZIP |    |
| VN with manual lever 3D (STEP)          | ZIP |    |
| VN with pneumatic cylinder 2D (DXF/DWG) | ZIP |    |
| VN with pneumatic cylinder 3D (STEP)    | ZIP |    |
| VN with electric actuator 2D (DXF/DWG)  | ZIP |    |
| VN with electric actuator 3D (STEP)     | ZIP |  |
| VN with hydraulic cylinder 2D (DXF/DWG) | ZIP |  |
| VN with hydraulic cylinder 3D (STEP)    | ZIP |  |

---

**CONTACT US FOR YOUR  
TAILOR-MADE SOLUTION.**

 Contact



+41 41 449 99 44



rfq@weyvalve.ch