



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 – O·PARK1

Wey knife gate valves VN for the first organic resources recovery center in Hong Kong

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 DGRL	PDF	↓
Declaration of incorporation ECMD	PDF	↓
Cutter-Pack Weyotine	PDF	↓
Tender invitation text	PDF	↓

Data sheets

VN with handwheel	PDF	↓
VN with manual lever	PDF	↓
VN with pneumatic cylinder	PDF	↓
VN with electric actuator	PDF	↓
VN regulating knife gate valve with pneumatic cylinder	PDF	↓
VN stem extensions	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	↓

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MADE SOLUTION.**