



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	
Maintenance 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	

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