



# **KNIFE GATE VALVES**

## **MF SERIES**



# MF SERIES

The MF is a universally applicable knife gate valve with a central flange design that will just about satisfy the customer's every need. As well as featuring the integrated Wey sealing system, the robust, modular design of the series is particularly advantageous. Choose from a variety of materials, add-on parts, and actuator options across the entire nominal size range. A true all-rounder.



## CHARACTERISTICS MF SERIES

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**50 – 2000 mm**

Nominal sizes

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**Cast iron, Ductile iron**

Material

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**0 – 10 bar**

Pressure rating

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**PN6, PN10, PN16, ANSI Class 150,  
BS10-D, BS10-E, AS2129-D, AS2129-E**

Flange drilling

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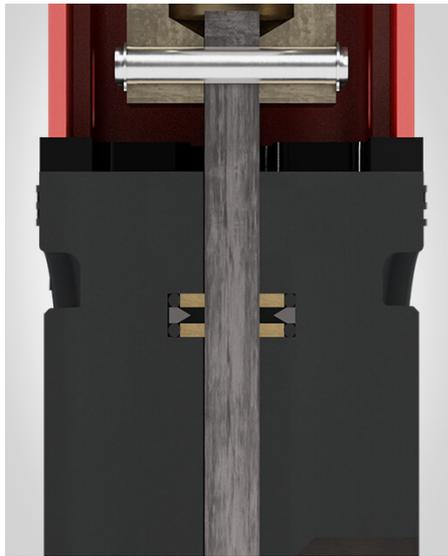
**EN 558 series 20**

Face to face dimension

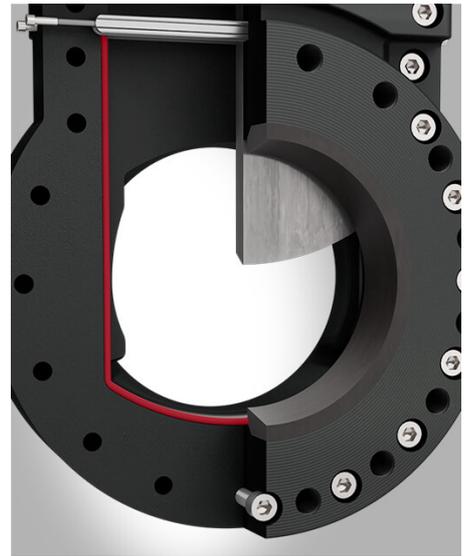
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All known pipe-cleaning methods (e.g., pigs, brush cylinders, etc.) can be used with the body bore, resulting in minimal pressure drops.



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



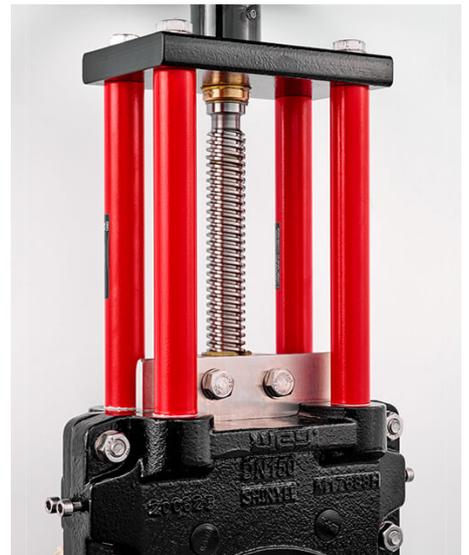
A mechanically retained round cord seal creates a bubble-tight shut off on the gate edge.



Optimized chest design to minimize the build-up of solids due to gate geometry.



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



Robust 4-post topwork for maximum load and a wide variety of actuator types.

## **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, Lime powder ...

### **Chemical and petrochemical industries**

e.g. Viscous pastes, Granulates, Bitumen/tar ...

### **Infrastructure**

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

### **Coal fired power stations**

e.g. Coal dust, Coal slurry, Lime powder, Flue ash ...

### **Pulp and paper industry**

e.g. Pulp Stock (Low to high density), Liquor (black, white, green) ...

### **Waste water treatment plants**

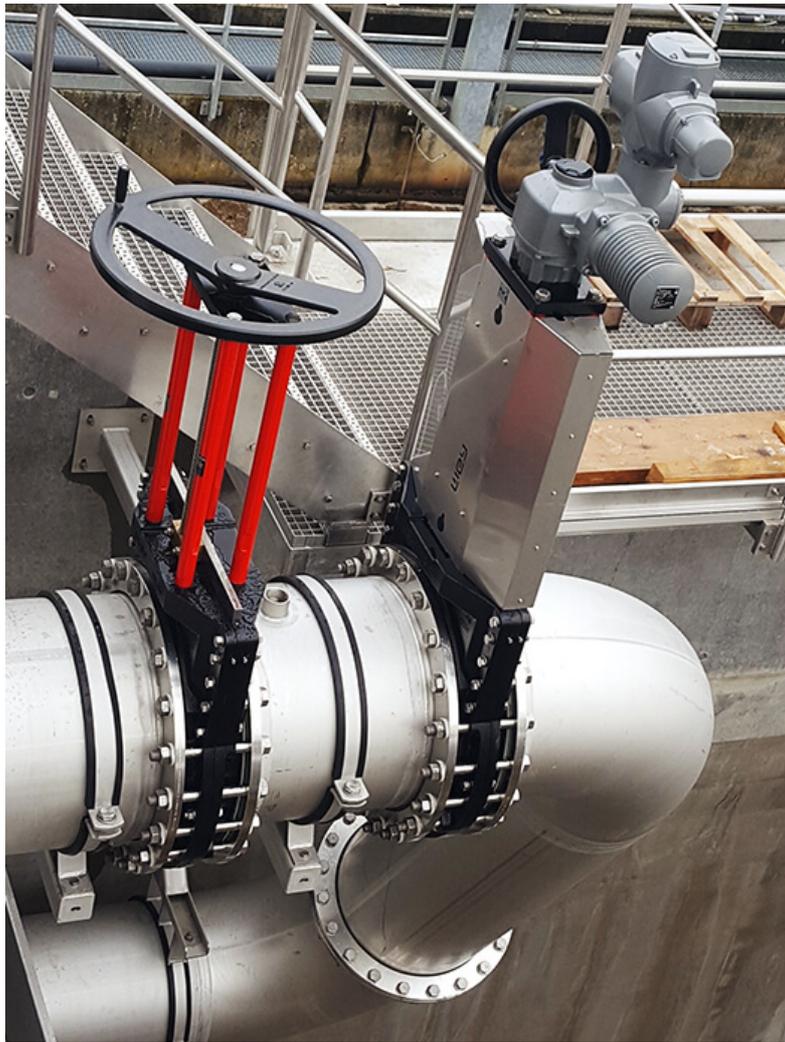
e.g. Waste water, Raw water, Sludge, Digested sludge, Floating sludge ...

### **Water treatment**

e.g. Seawater ...

### **Cement industry**

e.g. Cement, Lime powder ...



Wey MFA and MFE DN 500 in a wastewater treatment plant in Switzerland.

## MATERIAL OF CONSTRUCTION

Part	Cast iron	Stainless steel
Body	EN-GJS-400-15	EN-GJL-250
Gate	1.4301	1.4301
Seal	NBR	NBR
Topwork	Carbon steel	Carbon steel
Stem / Piston rod	1.4104	1.4104

Other materials upon request

## CORROSION PROTECTION

Body	2 Comp. Epoxy-Polyamide Resin Primer, 2 Comp. Polyurethane-Enamel-Top Coat
Topwork	2 Comp. Epoxy-Polyamide Resin Primer, 2 Comp. Polyurethane-Enamel-Top Coat

## ACTUATORS



**Handwheel**

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**Bevel gear**

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**Pneumatic cylinder**

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**Hydraulic cylinder**

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**Electric actuator**

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## DOWNLOADS

### General documents

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Instruction Manual	PDF	<a href="#"></a>
Actuators and Accessories	PDF	<a href="#"></a>
Seal arrangement	PDF	<a href="#"></a>
Lubricants	PDF	<a href="#"></a>
Declaration of conformity DGRL	PDF	<a href="#"></a>
Declaration of incorporation ECMD	PDF	<a href="#"></a>
Tender invitation text	PDF	<a href="#"></a>

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## Data Sheets

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MF with handwheel or bevel gear	PDF	<a href="#">↓</a>
MF with pneumatic cylinder	PDF	<a href="#">↓</a>
MF with electric actuator	PDF	<a href="#">↓</a>
MF stem extensions	PDF	<a href="#">↓</a>

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## CAD files

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MF with handwheel 2D (DXF/DWG)	ZIP	<a href="#">↓</a>
MF with handwheel 3D (STEP)	ZIP	<a href="#">↓</a>
MF with bevel gear 2D (DXF/DWG)	ZIP	<a href="#">↓</a>
MF with bevel gear 3D (STEP)	ZIP	<a href="#">↓</a>
MF with pneumatic cylinder 2D (DXF/DWG)	ZIP	<a href="#">↓</a>
MF with pneumatic cylinder 3D (STEP)	ZIP	<a href="#">↓</a>
MF with electric actuator 2D (DXF/DWG)	ZIP	<a href="#">↓</a>
MF with electric actuator 3D (STEP)	ZIP	<a href="#">↓</a>
MF with hydraulic cylinder 2D (DXF/DWG)	ZIP	<a href="#">↓</a>
MF with hydraulic cylinder 3D (STEP)	ZIP	<a href="#">↓</a>

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