

BÜSCH

FERROMAX[®]

The robust
telescopic stem extension
for every application.





FERROMAX®
 Robust for every application



As a developer and producer of stem extensions, with our own production site in Nuremberg, the durability and quality of our products have been convincing customers - since 1980. Our stem extensions are fitting precisely for all gate valves and thus stand ideally vertical in pipe trenches to enable perfect backfilling. From standard to individual adaptations – whether small or large quantities, special lengths or individual adaptations, we produce to your wishes.

Extensive accessories to make work easier round off our product portfolio. And if a quick response is required, we offer 48-hour delivery (workdays) of our standard stem extensions directly to you or to a dealer you trust.

Visit our showroom in Nuremberg and see for yourself. Innovative products at the highest level – competent advice, planning and produced with the greatest possible care.








FURTHER BÜSCH PRODUCT LINES CAN BE FOUND ON buesch.com

NIROMAX® VAG TELEMAX® RIGID EXTENSION



FERROMAX®-Configurator

SQUARE STEM CAPS

MATERIAL	Spheroidal cast iron, hot-dip galvanised	Stainless steal on request			
SIZE	Standard HA 12	Standard gate valve 27			
SPECIAL	 width across flats 36	 with torque protection	 with triangle	 with pin	 Special version

GATE VALVE BELL

STANDARD BELL	80 mm to DN 150	100 mm to DN 300			
OTHER GATE VALVE BELLS	over DN 300	for HAWLE	for von Roll	for DN 400 AVK Mittelmann	
BUTTERFLY VALVES	Standard flange F10/F14	Gearbox: AUMA	Other manufacturers		












COUPLING SLEEVE

MATERIAL	Spheroidal cast iron, hot-dip galvanised	Stainless steal on request		
SIZE DEPENDENT ON	House connection	Gate valve		
STEM FORM	Conical sphere	Shaft connection		
TYPE OF FIXING	Slotted pin	KlickFix	VariFix*	





*supplied without coupling sleeve



CAP

COLOUR				as required
ACCESSORIES	 with	 without flag		
CAP COVER				as required
INDICATOR DISCS				as required

SLEEVE TUBE

SLEEVE TUBE DIAMETER	∅ 44 mm HA	∅ 63 mm HA	∅ 63 mm Valve
COLOUR			as required
COLLAR COLOUR			as required

BELL HOUSE CONNECTION

STANDARD BELL with centering disc	Adapter HAWLE	Adapter FRIATEC	Adapter AVK
OTHER BELL TYPES	for HAWLE	for Erhard	for ball-valve depending on make

ROD

MATERIAL	Hot-dip galvanised	Stainless steel		
COVER DEPTH	0,70 - 1,00	0,90 - 1,30	1,00 - 1,50	1,20 - 1,80
	1,50 - 2,00	1,70 - 2,80	Special lengths up to 6 m	

On the safe side with BÜSCH stem extensions

Who isn't familiar with the situation? The call from the construction site, which in most cases does not bode well:

- “The stem extension is too short!”
- “We have to dig out everything again...”
- “A different valve to the one given is installed.”
- “Everything has subsided, somebody didn't compact properly.”
- “The excavator operator didn't see the stem extension and knocked it over“

Avoid this extra effort, the time delay and follow-up costs by using FERROMAX.

ALWAYS THE RIGHT PIPE COVER

The telescopic stem extension can be immediately adjusted to the required length. If this is insufficient, you can extend it flexibly using the additional extension attachment.

ALWAYS THE RIGHT STEM EXTENSION

- No limitations due to different valve connections. Different adapter solutions for our bells adapt the stem extension to your house connection immediately.
- If you find that the gate valve in the pipe trench has a different nominal size than you thought and thus a different stem connection, with the VariFix solution you always have the right coupling sleeve to clip on.

SAFETY

- The stable pull-out lock prevents irreparable damage to the stem extension when pulled apart.
- In the event of a pipe burst, the stem extension must be able to close a gate valve urgently and reliably. Top materials such as hot-dip galvanised steel or stainless steel prevent corrosion, large-volume bells prevent wandering of the sleeve tube and result in the operational reliability of BÜSCH stem extensions.

SAFE AND RELIABLE COMPACTING

Clean and gradual compaction of the subsoil helps to avoid subsequent road damage such as collapse of the road pavement or frost damage in winter.

- Bells and centring discs adapted to valves ensure that our stem extensions are always positioned vertically, necessary for 360° compaction.
- The telescopic adjustment of the stem extensions means gradual, layer-wise compaction is not a problem.
- A robust and large-volume sleeve tube protects the function of the stem extension while the subsoil is being compacted.
- From the cap to the bell, all components of our stem extensions are fully welded and the sleeve tube collars have sealing lips. The complete stem extension is thus protected against subsequent silting up.
- Accessories such as the BÜSCH support plate also offer safety for your road cap due to the large contact surface.



SENTINEL

UNCOMPLICATED, VARIABLE, RESISTANT

OPERATING RELIABILITY OF THE VALVE AND NETWORK

SENTINEL monitors smooth operation of buried gas and water networks. A glance is sufficient to evaluate the position of system-relevant valves.

Each actuator movement is transferred directly to the indicator and thus always indicates the current opening of a valve. Particularly helpful for smooth and easy moving butterfly valves, to prevent overwinding of the valve.

MONITORING & SAFEGUARDING READINESS OF THE VALVE AND THE NETWORK

In addition to pure status display of the valve, SENTINEL indicators with electrical limit switches are also used for more complex applications. Monitoring a very large network or ensuring readiness of firefighting water or sprinkler systems are achieved with the help of indicators.

Additional performance monitoring provides evidence for insurance protection.

VERSIONS

TYPES

- Mechanical
- Electrical
(mechanical display & electrical limit switch)
- Electrical with pipe monitoring
(mechanical display & electrical limit switch & pipe monitoring)

MATERIALS

- Coated spheroidal cast iron IP67*/IP68
- Stainless steel A2 IP67*/IP68
- Stainless steel A4 IP67*/IP68

ROTATION & DISPLAY RANGES

- 0-20
- 0-60
- 0-360
- 0-900

CONNECTIONS**

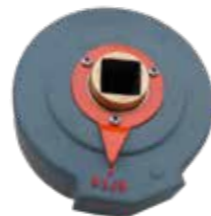
- Parallel 25 x 25 mm
- Shaft Ø 30 mm



Electrical indicator made of stainless steel



Electrical indicator made of coated spheroidal cast iron



Mechanical indicator made of coated spheroidal cast iron



Special version with mechanical indicator made of coated spheroidal cast iron with stainless steel setting ring



Mechanical indicator made of coated spheroidal cast iron with individual cap design, e.g. integrated flange joint

AT A GLANCE

What does an indicator do in general?

- It displays the current opening of a valve.
- Each actuator movement is transferred directly onto the indicator.

Why do I need an indicator?

- It supports professional operation of a gas or water network.
- Especially where system-relevant valves are concerned, the OPEN/CLOSED position must be visible directly.

Why do I need an electrical indicator (with pipe monitoring)?

- To monitor large and difficult to access networks.
- To ensure firefighting water or sprinkler systems are ready for use.
- To link to a control centre.
- To provide evidence for the insurance protection.



left: Application example

MOBITORQ
ADAPTABLE, EFFICIENT, INDEPENDENT

MOBITORQ electric

Gate valve turning device with electric drive

Technical Data

- Torque adjustable (potentiometer): 40-180 Nm
- Torque max. overload clutch: 220 Nm
- Mains voltage: 230 V
- Power input: 2400 W
- Nominal current: 10,4 A
- Frequency: 50-60 Hz
- Nominal speed (full load):
- Protection class: 1
- Degree of protection of enclosure: IP20
- Weight: 6,5 kg
- Tool holder: Square 3/4"

Product features

- Stepless adjustment of the tripping torque by potentiometer.
- Time saving due to more revolutions at higher load.
- The integrated counter counts in both directions.



OPERATING RELIABILITY AND COST CERTAINTY

THROUGH REGULAR MAINTENANCE

Penstocks and valves must always function perfectly. Periodic actuation is therefore the best insurance against damage or additional costs due to premature replacement.

MOBITORQ accu

Battery operated gate valve actuator

Technical Data

- Torque: 5-500 Nm
- Torque settings: 60-stage (4 gears each with 15 setting stages)
- Speed: 0-152 rpm
- Charger mains voltage: 220-240V/50-60Hz
- Battery pack voltage: 18 V
- Battery pack capacity: 6.0 Ah
- Battery pack weight: 0.6 kg
- Power tool weight: 5.1 kg
- Tool socket: Standard square 1-inch

Product features

- Very large range of use due to fine-meshed preselection stages of gear and cut-off torques within the range of approx. 5-500 Nm.
- Ideal for house connection sets, as minimum torques of 5 Nm can be achieved.
- Especially where large valves with long traversing distances are concerned, the fast running gear saves working time.



INSPECTION WORK

MADE EASY

The actuation of seized or rarely actuated valves is frequently a challenge for employees. Electrical or battery operated gate valve rotators can be used flexibly and cover all kinds of different operating requirements.

ID-FIX INDICATOR DISCS
FOR STEM EXTENSIONS

OCCUPATIONAL SAFETY

DUE TO CLEAR ASSIGNMENT OF THE VALVE

Through clear house number assignment, the ID-Fix indicator disc shows both in-house employees and external users (e.g. the fire service) to which house/building the respective connection leads.

STATUS DISPLAY

OF THE VALVE – OK/NOK

The status display patchboard shows at a glance whether the valve is operable or not. Simply click the red patchboard to directly indicate inspection work.

CONTROL FUNCTION

THROUGH ANNUALLY CHANGING DISC COLOUR

Periodic inspection and maintenance work can be controlled with the help of the annually changing disc colour. Turn the disc – attach new disc – return old disc to the water supervisor – clearly documented!

INDIVIDUALLY ADAPTABLE

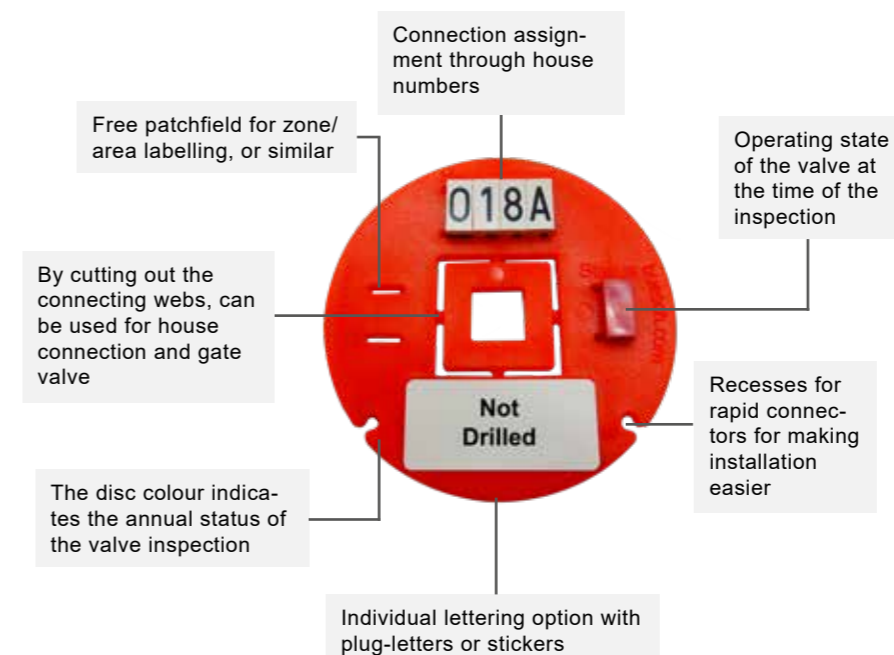
FOR CUSTOMER-SPECIFIC INFORMATION

In addition to the standard functions, the ID-Fix indicator disc offers individually adaptable fields. Customer-specific information can be displayed using plug-letters or printed stickers.

APPLICATION EXAMPLE



ID-Fix installed on house connection



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Certifications:



The BÜSCH Group is certified to ISO 9001.



Member of the Deutschen Vereinigung für Wasserwirtschaft, Abwasser und Abfall e.V.



Member of the Warenzeichenverband Edelstahl Rostfrei e.V.