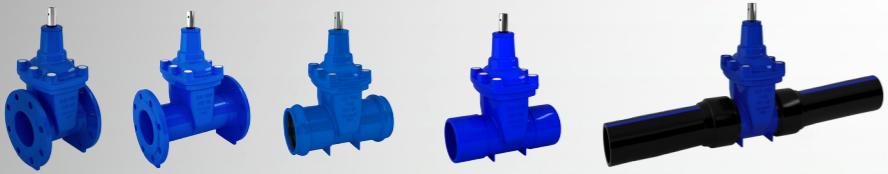


# a wide range of **valve solutions**

soft sealing gate valves series 3000, for potable water



soft sealing gate valves series S3000, for wastewater/sewage



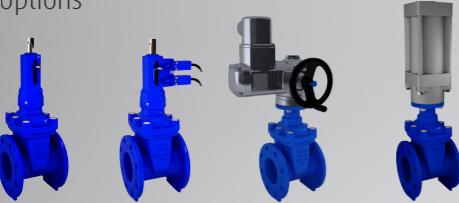
soft sealing gate valves series G3000, for gas



service connection soft sealing gate valves series Século XXI, for potable water



options



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CORROSION PROTECTION  
All products has an internal and external excellent corrosion protection. The coating quality is controlled according to the requirements of DIN 30677 and GSK (RAL-GZ662).

CONTROL OF THE ENTIRE PRODUCTION PROCESS  
The two Fucoli-Somepal factories are located in Portugal, where is controlled the entire production process ensuring a constant quality of its products. The selection of raw materials sources is rigorous and careful. All raw materials before received are analyzed in our laboratory.

Using a modern automatic pouring system, all products are manufactured in ductile cast iron EN-GJS-500-7 (GGG50).  
Fucoli-Somepal has three coating systems - robotic, automatic and semi-automatic - which is electrostatically applied epoxy coating with a minimum thickness of 250µm.

The mechanization of the products is carried out using the latest CNC Machining technologies.

www.fucoli-somepal.pt

COMPETE  
PROGRAMA REGIONAL PARA ODE COMPETITIVIDADE  
QRN  
QUADRO DE REFERÊNCIA NACIONAL  
UNião Europeia  
UNião Europeia  
UNião Europeia  
AMIGO DO AMBIENTE  
APCI  
I-Net  
ISO 9001  
OHSAS 18001



**Fucoli Somepal**  
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## Soft sealing gate valves

PT | EN | DE

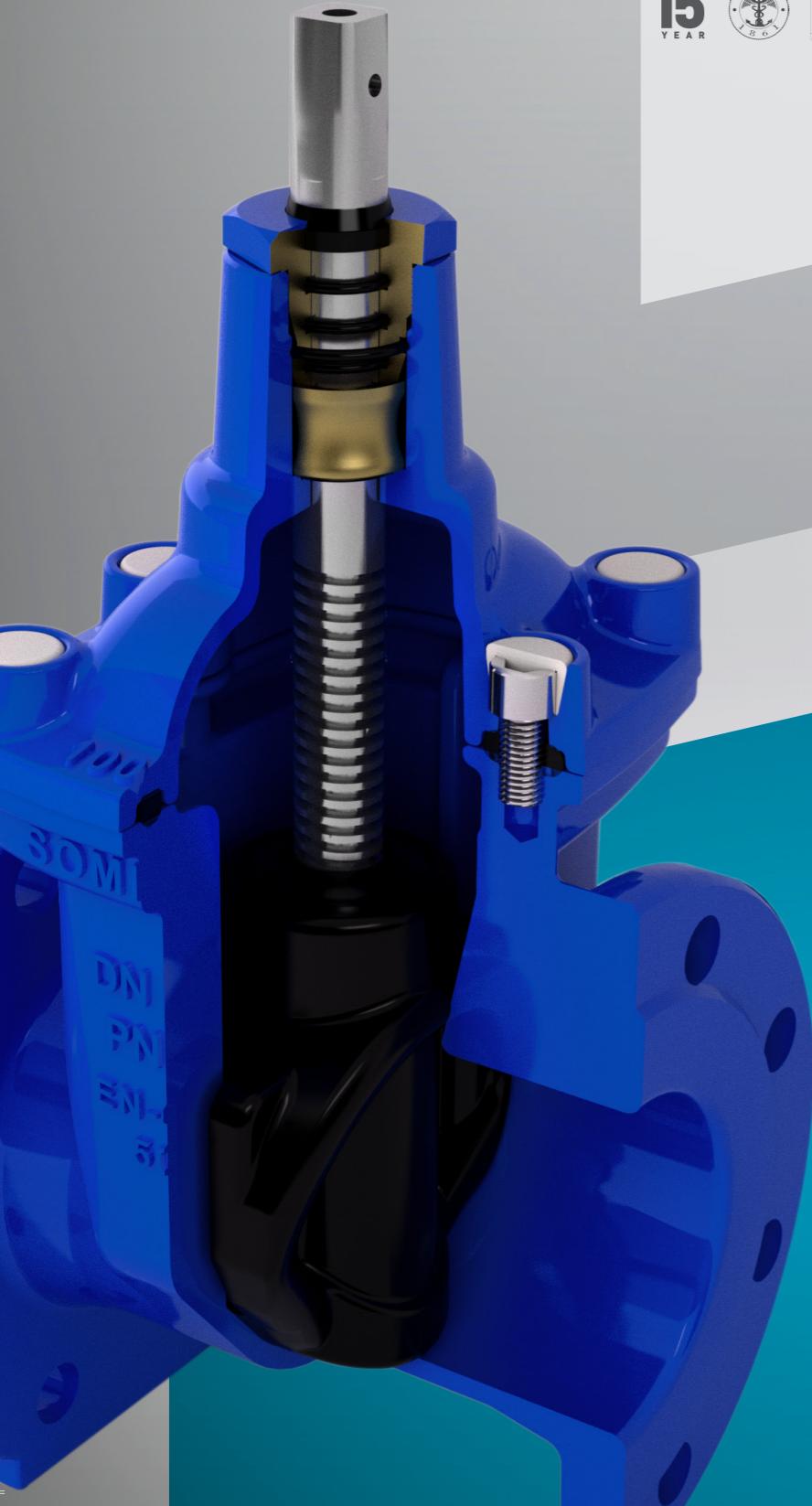
[www.fucoli-somepal.pt](http://www.fucoli-somepal.pt)



## SOFT SEALING GATE VALVES

Fucoli-Somepal provides Soft sealing gate valves for isolation with nominal diameters range from DN 20 to DN 600 and pressure ratings range from PN 10 to PN 25.

This valves are available in several patterns design for water, wastewater/sewage and gas systems.



### PRESSURE TESTS AT 100%

All valves are individually hydrostatically tested in the factory at high and low pressure, according to EN 1074-1/2, and EN 12266.

### TEST AND CERTIFICATIONS ACCORDING TO EN 1074

All models of soft sealing gate valves were subjected to rigorous testing according to standard EN1074. The valves, are certified by several bodies: ACS (France); AENOR (Spain); CATIM (Portugal); KIWA (Netherlands); RINA (Italy).



### STEM

The valves are supplied in stainless steel AISI 420 stem (for drinking water networks) and AISI 316L (for wastewater networks and gas).

The stem has a trapezoidal thread profile produced by cold rolling process, which keeps the steel structure and increase its resistance.

This machining method ensures uniform polished and lower edges and therefore lower torques.



### BODY/BONNET GASKET

The body/bonnet gasket is fully lodged between the body and the bonnet in the groove designed to fit it.

This joint is also designed to encircling the bonnet bolts that fix the bonnet to the body.



### BODY/BONNET BOLTS

The body/bonnet bolts are internal hex drive, made of stainless steel A2 grade, fixed in a bonnet groove and sealed with hot melt and with no contact to environment or fluid.



### MONORAIL SYSTEM

Wedge have a monorail system design who guarantees an excellent service behavior, even when subjected to high pressures, ensuring less effort of the spindle extending its useful life.



### REPLACEMENT STEM SEALING SYSTEM

All valves Series 3000, allow replacement of the stem sealing system under pressure by removing the gland nut.



### AXIAL BEARING SYSTEM

Valves DN 250 and DN 300 are provided with one axial contact ball bearing, from DN 350 and greater they have a double axial contact ball bearing system.

This conception enables a operating torque lower than the normalized values and therefore, a reduced operation effort.

### VALVE BODY

The valve body has a circular full bore, smooth and without reduction (passage section equal to DN), in order to assure a low head loss.

The seating area is with no internal pockets to avoid the waste accommodation.



### WEDGE OF HIGH FIDELITY

The wedge provide the soft seal to the valve. Wedge inner is in ductile cast iron with brass nut firmly fixated in the wedge core.

Wedge is fully overmolded and and fully encapsulated in vulcanized EPDM elastomer (for drinking water networks) or NBR (for wastewater and gas networks).

The Series 3000 wedge was concived with a special design allowing a wedge soft stop.

When the valve is in fully open position, the wedge stops and blocks, further turning of the stem, when the wedge rubber top touches in the inner of the cover. This wedge soft stop design, protect the inner epoxy coating of valve cover from any damage.

**soft sealing gate valves**