

DESDE 1946

OPERATIONS MANUAL





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MADE IN EUROP



MO 32 Edição 09 FEB 2024



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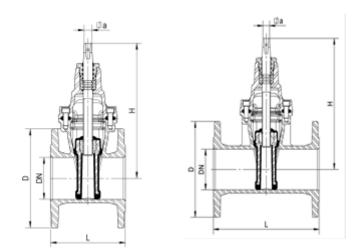
1. GENERAL DESCRIPTION

THE SOFT SEALING GATE VALVE flanged S14 and S15 Model 3000, are sectioning valves of a smooth and straight passage, built according to standard EN 1171, and tested in accordance to standard EN 13774, flanged according to standard DIN EN 1092-2 and face-to-face dimensions between flanges according to standard EN 558.

Flanged valves are used in gas applications with a maximum working pressure of up to 16 bar. In the application of these valves the relevant regulations must be followed and observed, regulation of prevention of accidents, standards applicable to EU branding, national or international directives in terms of handling, installation and operation.

1.1 DIMENSIONAL CHARACTERISTICS

The dimensional characteristics referred in standard EN 1171 (construction), DIN EN 1092-2 (flange dimensions) and EN 558 (face-to-face dimensions) are described in the technical catalogue sheets of each of the models/ valve types.



Example:

Soft Sealing Gate Valve FL S14 PN 10/16 – FOLHA TÉCNICA 16.101 / 16.201				
DN	D	L	Н	Ф _а

1.2 LEAK TESTING

Before being made available to its customers, all valves without exception are tested for working conditions, pressure, leaks and checking torque tightening before shipping from the factory, according to the requisites of standards EN 13774 and EN 12266-1 and the test records kept in conformity with the requisites of the "Pressure Equipment" directive 97/23/CE.



Hydraulic pressure test (Mpa)			
PN	sealing	body	
10	1,1	1,8	
16	1,8	2,4	
Leakage class – rated A in accordance with norm EN12266-1			

Note: 1 bar = 1 Mpa

1.3 SERVICE TEMPERATURE

Temperature range of working	
- 10 °C to 60° C	

2. IDENTIFICATION OF POTENTIAL RISKS

There were not identified any potential use risks during its development. Its commercialization and after-sales service is not associated or realize any assembly or operational risks.

3. INSTALLATION/HANDLING

It is very important that the surface of the valve sealing is protected from dust and rubbish during the installation process thus preventing non conforming sealing.

It is the responsibility of the final user to ensure that the fluid flow is clean and clear of rubbish before the valve installation. Not ensuring this operation may reduce or hinder the sealing of the valve.

The handling and installation must be done by qualified personnel, complying with the local, national or international regulations in existence.

Whenever, for lifting and handling of valves, mechanical means are required, these must be appropriate and should be applied the lifting accessories, as shown in the figure, in the locations marked for that purpose, on the valves.



DN 125 to DN 250



During valve installation the necessary procedures must be taken into account to ensure that it is aligned with the tubing/ accessories in order to avoid any tension load that may act upon the body of the valve.

	HAN	IDWHEEL
DN	Diameter	中
40/50	160	14
60/65/75/80	200	17
100	250	19
125/150	315	19
200	400	24
250/300	600	27

Diameter of handwheels to maneuver the valve:

The Model 3000 valves have a bidirectional flow, being supplied in series with a clockwise shutting direction. By request they can be supplied with an anti clockwise shutting direction.

The screws for valve coupling, must be tightened in accordance with the Torque described in Table 1 and the closing torque (MOT) to be used must be that described in Table 2.

Table 1- Screw Tor	que
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DN	SCREWS		FLANGE/TORQ	UE – (maximum)
DN	PN 10	PN 16	PN 10	PN 16
40	I			
50				
60	M16			
65			45Nm	60Nm
80				
100				
125				
150	- M20			001/m
200			700.000	90Nm
250	- M20 M24	N424	70Nm	190Nm
300		IVIZ4		180Nm

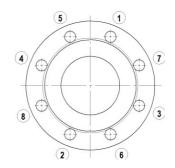


Table 2 - MOT



4. MAINTENANCE

Only qualified personnel can install these valves, they should not be handled, used, installed or operated in such a way that can damage or expose the valves to excessive or abnormal loads.

The Model 3000 valves were designed to be exempt of mandatory periodic maintenance, however because conditions may change from one installation to another the technical area recommends that said valves be operated (opening and shutting cycles) once a year in order to guarantee a perfect working order. In the shutting cycle the binary indicated in table 2 should be used.

In the operation that involves loosening the gland nut, the following procedure should be followed when it is being re tightened:

- Valves DN 200; DN 250 and DN 300 - LOOCKTITE 222 thread blocker should be applied

		Series		МОТ
DN	PE pipe	FLANGED S14 / S15	Gate valve Series 3000	
	40	-	DN 40	50
	50	63	DN 50	50
	60		DN 60	60
	65	75	DN 65	65
8	80	90	DN 80	80
el 30	100	110	DN 100	100
lode	80 80 100 125	125	DN 125	125
Σ		140		
	150	160		150
	150	180	DN 150	150
	200	200		200
		225	DN 200	200
		250		270
	250	280	DN 250	250
	300	315	DN 300	300

After the gland nut is tightened, it is corrected with the torque wrench in accordance with Table 3.

DN	TORQUE (Nm)
40/50	220
65/80	280
100/125	320
150	360
200/250/300	400

Table 3 – Gland Nut Torque

The valves should be stored with the wedge half open and the wedge should not be exposed to sunlight or any other source of light during storage.

If you have any doubts to apply the valve, please call our COMMERCIAL SERVICES 239 490 100 or email <u>comercial@fucoli-somepal.pt.</u>