



TYPE APPROVAL CERTIFICATE
No. **MAC017821XG/001**

This is to certify that the product identified below is in compliance with the regulations herewith specified.

<i>Description</i>	BUTTERFLY VALVES
<i>Type</i>	SYLAX
<i>Applicant</i>	SOCLA SAS 365, RUE DU LIEUTENANT PUTIER 71530 VIREY-LE-GRAND FRANCE
<i>Manufacturer</i>	SOCLA SAS
<i>Place of manufacture</i>	ZONE D'ACTIVITE SAVOIE HEXAPOLE - RUE LOUIS ARMAND 73420 MERY FRANCE
<i>Reference standards</i>	Part C, Chapter 1, Section 10 of RINA Rules

Issued in **Hamburg** on **January 23, 2021**. *This Certificate is valid until* **January 22, 2026**

RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure.

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SYLAX

Reference documents

Technical Specifications OREG SY/09.1999, SYGL/09.1999 and SYHP/10.1999 for DN 25 to DN 350, EN10-A/04.1999 and ENDB-RED/01.2000 for DN 400 to DN 1200.

Technical Specifications "frsylax25", "ukSylax25-350", "ukSylax400-1200" and "ukSylax900" enclosed in SOCLA Butterfly Valve brochure ref. file RINA 001 dated 30/08/2010 filed by RINA with No. PPVT-10836.

General Drawings Nos.42206N, 49547N, 49645N.

Materials/Components

Piece	Material
Body	Grey cast iron or Nodular cast iron or Stainless steel or Steel according to the following standards: JL1040 (EN 1561), JS1030 (EN 1563), 1.4408 (EN 10088), ASTM A-216 gr WCB (ASTM A-216)
Disc:	Nodular cast iron or Stainless steel or Copper alloy or Titanium Alloy or NiMoCrW Alloy or Monel according to the following standards: JS1030 (EN 1563), 1.4408 (EN 10088), 1.4404 (EN 10088), 1.4539 (EN 10088), 1.4571 (EN 10088), 1.4542 (EN 10088), CC333G (EN 1982), ASTM B-265 gr 2 (ASTM B-265), C-276 (UNS N10276), MONEL400 (UNS N04400)
Liner	EPDM, White EPDM, Nitrile High content, White Nitrile, Carboxylated Nitrile, Fluored Elastomer, Silicone, Hypalon, Butyl rubber, Natural rubber
Stem	Stainless steel 1.4028 (EN 10088), 1.4404 (EN 10088)

Material combinations will be as per Manufacturer's Instructions.

Technical characteristics

Type and dimension

Flangeless Wafer Lug type, Tap type and U-shape Butterfly Valve

Size Range: DN 25 - 1200 mm

Working Pressure

Size range DN 25 - DN 350

Type	Mounting between Flanges	Mounting end of line
Centering lugs (wafer)	16 bar (10 bar for DN25 and DN350 with cast iron body)	—
Tapped lugs	16 bar (10 bar for DN32 and DN350 with cast iron body)	16 bar from DN 32 to 150 10 bar from DN 200 to 350 (6 bar for DN 350 with cast iron body)

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Type	Mounting between Flanges	Mounting end of line
Centering lugs (wafer)	25 bar from DN 50 to 150	-----
	20 bar from DN 200 to 300	-----
Tapped lugs	25 bar from DN 50 to 150	16 bar
	20 bar from DN 200 to 300	-----

- (*) Body made of cast iron is not to be used in these applications.
 Stem is to be made of Stainless steel 1.4028 (EN 10088).
 EPDM or Nitrile High content are to be used.
 The above pressure ratings are not admitted for "fuel oil and lubricating oil"
 services. Evidence is to be given on the test certificate.

Size range DN 400 - DN 1200

Type	Mounting between flanges, Grey cast iron body	Mounting between flanges, Nodular cast iron body	Mounting end of line
Centering lug (wafer)	10 bar	16 bar	-
Tapped lugs	10 bar	16 bar	6 bar
Double flanged		16 bar	6 bar

Working temperature:

EPDM	+ 8 °C to + 110 °C
White EPDM	+ 8 °C to + 80 °C
Nitrile High content	+ 5 °C to + 85 °C
White Nitrile	+ 5 °C to + 60 °C
Carboxylated Nitrile	+ 5 °C to + 120 °C
Fluored Elastomer	+ 5 °C to + 180 °C
Silicone	- 25 °C to + 200 °C
Hypalon	+ 5 °C to + 90 °C
Butyl rubber	+15 °C to + 90 °C
Natural rubber	+30 °C to + 50 °C

Reference standard

Construction according to EN 593.

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Fields of application

- Ballast and bilge system
- Sea and fresh water system
- Domestic and Sanitary system
- Potable water system
- Fuel oil and lubricating oil - not admitted for valves intended for "high pressure applications (*)"
- Washing and fire extinguishing

Remarks

The butterfly valve body, disc and sealing should be suitable for the foreseen service.

Final acceptance of valves is subject to satisfactory outcome of testing as per RINA Rules.

Evidence of what follows is to be given on the test certificate:

- butterfly valves not fitted with flanges are not to be used for water inlets or overboard discharges and on tanks under head of fuel, unless provisions are made to allow disassembling at sea of the pipes served by these valves without any risk of flooding;
- bilge valves will be fitted in association with a non return valve;
- the use of grey or nodular cast iron will be restricted as per RINA Rules according to Tab. 4 of Pt. C, Ch 1, Sec 10;
- for sea water pipe systems, the use of austenitic stainless steel is not recommended according to Tab. 4 Pt. C, Ch 1, Sec 10.

The maximum working pressure is to be reduced as per the Manufacturer's instructions, according to working temperature.

This certificate does not cover any appropriate system for remote control valve.

This certificate annuls and replaces the previous ones Nos. MAC418015CS/001.

Hamburg January 23, 2021

