SOCLA

BUTTERFLY VALVES

sylax

SOCLA, MANUFACTURER...

THE BUTTERFLY

DESIGN, INNOVATE

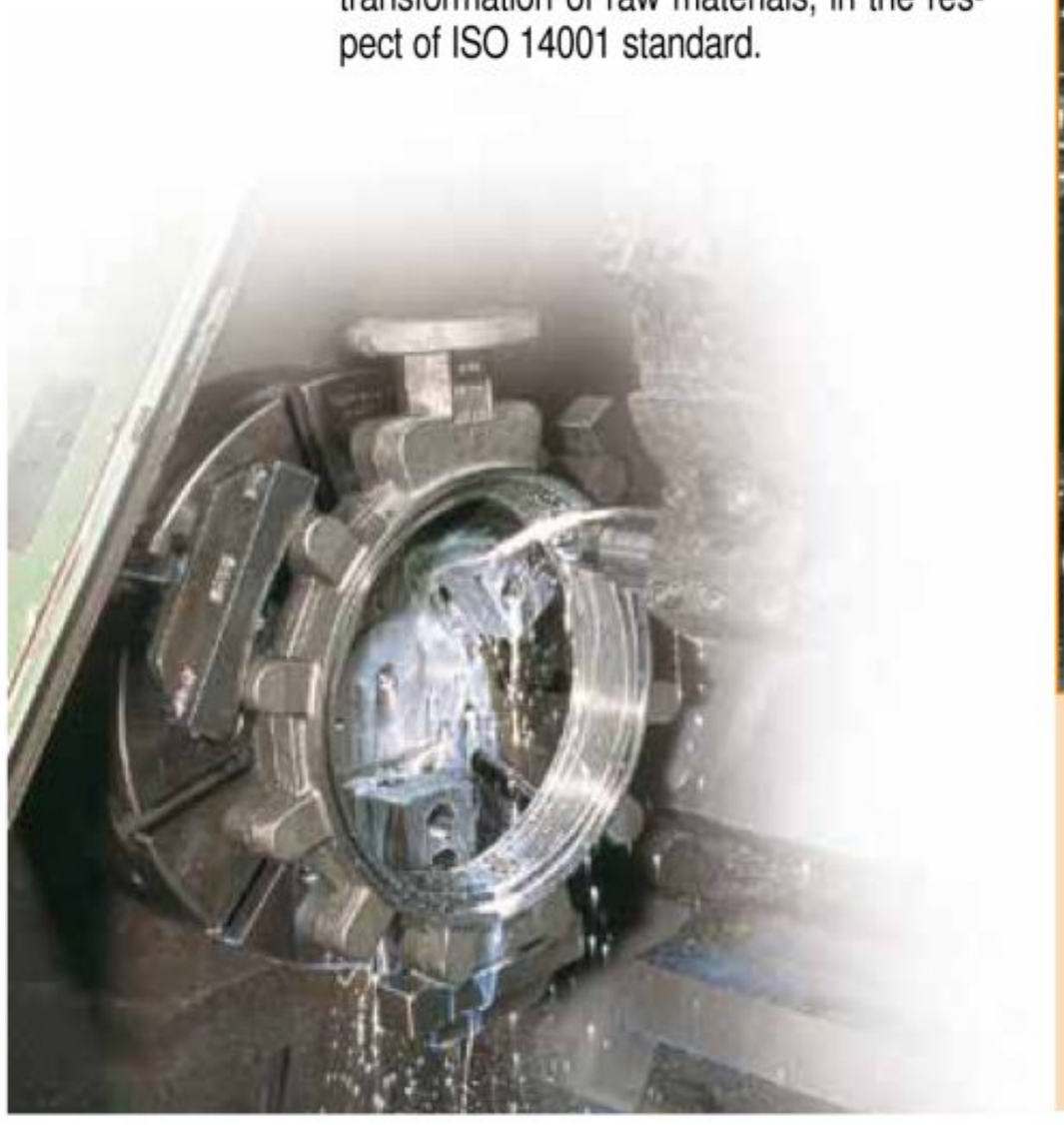
- Specialist in the control of fluids in movement, our R&D team integrates in its studies all networks parameters...

Assisted by a powerful date processing, served by the most recent softwares, its objective is the design of innovating products, research of competitiveness and reliability, in respect of environment.

PRODUCE

- Our specialised units, ISO 9001 certified (2000 version) work on recent conception multiposts CNC machines, driven by a sophisticated CAD system.

A particular care is taken to selection and transformation of raw materials, in the respect of ISO 14001 standard.



TEST, MEASURE

- Beyond theorical date-processing and technical calculations, Socla integrates in Virey-le-Grand one of the most important hydraulic laboratory.

This tool, amont the most powerful ones in Europe, consolidates Socla in its position of expert in the control of fluids in movement.

SERVICE

- Since Virey-le-Grand, near Chalon-sur-Saône in France, the Socla logistic centre delivers all orders around Europe, quickly, guaranteeing the efficient service required by the customer.

A MULTIPLICITY OF SOLUTIONS FOR SHUT OFF

VALVE

Butterfly valve is a matchless element on fluids in movement networks.

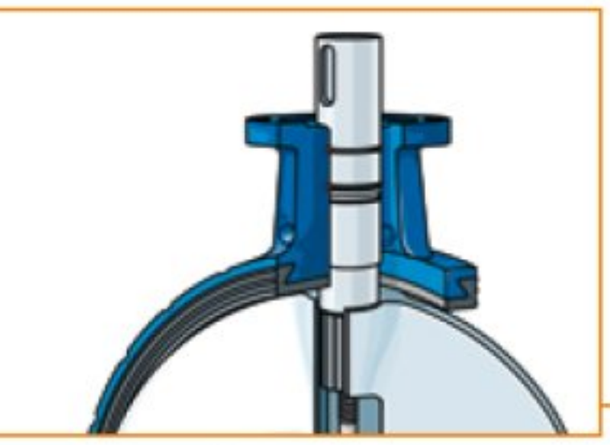
Technical adequacy with installation characteristics and carried fluids, reliability, high level of safety are the main features guaranted by Socla.

THE PERFORMANCE OF TECHNOLOGY

SYLAX - ENODIA

By concentrating the technologies in the field, and by integrating technical solutions of highest standard, Socla propose the competitiveness of a standard range, reliability and a comprehensive approach, affering a multiplicity of solutions.

- Safety anti-ejection circlip keeps shaft in place and allows easy maintenance.
- Safety reinforced by double watertightness.
- Spline driven one piece shaft connected to floating disc guarantees :
  - long term reliability
  - watertightness optimised
  - better high torque transmission



- High power transmission with robust grooved connection between the shaft and the disc.
- Reliability of movement with self-lubrificating.
- Complete protection of the shaft and valve body from fluids.

LYCENE

Very high level of working safety for chemical media, food processing industries and pure water thanks to quality components :

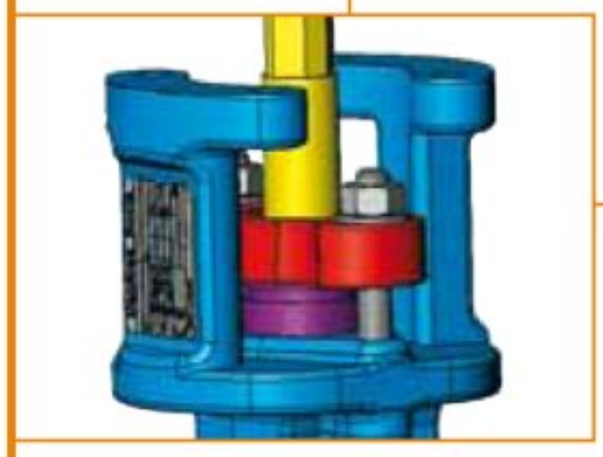
- PTFE liner (3mm thick).
- Stainless steel 316L, mirror polished 316L and SS 316L PFA coated (2,5mm thick).

- Liner back-up enclosed in the body ensures perfect disc tightness.
- Tightness at shaft location with bearing and spring.
- PFA moulding up the stem ensuring zero leakage.
- One piece blow out proof shaft and disc.

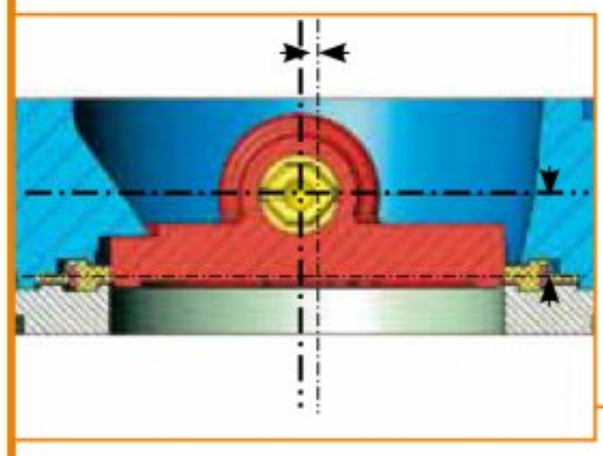
EMARIS

Butterfly valve fulfils th
rements of industrial a

- DN65 to 200 n
- Stainless steel
- Pressure ratin



- Long



- Larg
- Dou

- Bi-directional sealing :
  - Wide range of industrial applications and high corro media suitability thanks to the use of reinforced PTFE stainless steel and PTFE materials
  - Bi-directional tightness
  - No use of springs for reliable sealing
  - Metallic insert / soft seal design for high performance sea at variable temperature conditions
  - Asymmetric design of the seal for trouble free re-assemb and maintenance

THE WIDENESS OF THE STANDARD RANGE

Various construction materials for specific applications :

VALVES BODIES

• EN-GJL-250 cast iron	• 316 stainless steel (1.4408)
• Gr.WCB carbon steel	• EN-GJS-400-15 ductile iron
FLANGE RATING	PN6 - PN10 - PN16 - PN25 - ASA 150 ASA300 - PN40

A multiplicity of solutions, combining different flange rating, sizes, pressures and construction materials ; other materials are also available on request.

centering lugs | tapped lugs | central lugs | double flange | ring shaped

LINERS

The indicated temperatures are the maximum service temperatures.

For working temperatures, see catalogue price-list.

High temperature EPDM -20°C -> +120°C	High content NITRILE -15°C -> +90°C
EPDM PTFE -20°C -> +120°C	SILICONE -40°C -> +240°C
CARBOXYLATED NITRILE -10°C -> +115°C	HYPALON -25°C -> +95°C
SILICONE PTFE -30°C -> +240°C	FLUORED ELASTOMERE -10°C -> +200°C
White EPDM -20°C -> +85°C	STAIN. STEEL PTFE -50°C -> +220°C

**he highest performance and reliability requi-
pplications.**

mm
body & disc / cast steel body & stainless steel body
g up to 50 bar ; temperature de -50°C to +220°C

g neck body and cast on Iso Top Plate :
- Designed to allow insulation
- Easy access to the packing gland without removing the actuator
- Cast on ISO plate for direct assembling of actuators

ge range of flange connections :
- Wafer and tapped lugs bodies PN10-16-25-40-ASA 150/300
- 4 lugs, to screw the seat retaining plate on to the valve body, located to offer a larger flange contact surface
- Groove end connection

ble eccentric disc :
- Long life durability due to double offset operating principle minimizing seat wear
- Reduced operating torques
- High efficiency tightness by full sealing ring

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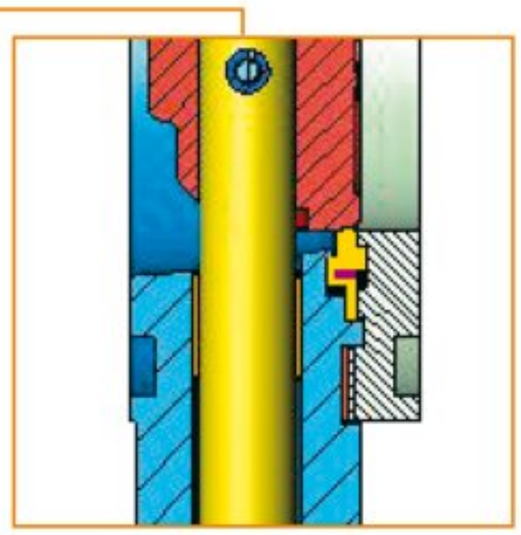


DISCS

A selection of materials of different characteristics

GJS POLYAMIDE

STAINLESS STEEL 316 or 316L

STAINLESS STEEL 316L PFA Coated

ALUMINIUM BRONZE

GJS DUCTILE IRON EPOXY

STAINLESS STEEL 316L POLISHED MIRROR

And also Uranus B6, Hastelloy C, Titanium T40, etc...

ACTUATIONS AND ACCESSORIES

THE MULTIPLICITY

HANDLEVERS

PCX
Composite lever

PCF
Notched lever in ductile iron 2 or 10 positions

PRF
Adjustable ductile iron or stainless steel handlever

PRI
Multipurpose 17 positions handlever

PCF
Notched handlever in ductile iron with mechanical limit switches

PCF
Notched handlever in cast iron with a switchbox

MANUAL GEAR BOXES

RM
Cast iron manual gear box

RM
Manual gear box with mechanical switchbox

RM
Stainless steel manual gear box

RM
Manual gear box with chain-wheel

PNEUMATIC ACTUATORS

Double and single acting with or without emergency handwheel

Adjustable travel stop device

SOCLA

Standard equipment :
- ❑ Pneumatic actuations by a adjustable travel stop device
- ❑ Operating temperature from -20°C to +90°C
- ❑ Torques from 16 up to 1100 Nm
- ❑ Air supply 2 to 10 bar (in standard, air supply 6 bar)
- ❑ Mechanical stops enabling of opening or closing to ±10°
- ❑ Dry or lubricated air supply
- ❑ ATEX 2II DG c
- ❑ Flanges in accordance with EN ISO 5211, VDI/VDE 3845
- ❑ Visual position indicator
- ❑ In standard, NF single acting version (NO on request)

AIR TORQUE + REMOTE CONTROL + SERVOVALVES

«SCOTCH YOKE» mechanism

High torque with «SCOTCH YOKE» mechanism

«SCOTCH YOKE» mechanism with emergency handwheel

High torque with emergency handwheel

ELECTRIC ACTUATORS

serie ER+ **serie VS**

Multivolt 100-240V 50/60Hz • 100-350V DC
15-30V AC 50/60Hz • 12-48V DC

SOCLA

Actuator serie ER+ - Standard equipment :
Electric actuators on/off duty, On/Off or 3 modulating points control, IP66, Possible rotation angles : 90° ; 180° ; 270°, Duty rating 50%, Polyamide cover UL94V0 approved, Modular position indicator, Available voltages : 100-240V 50/60Hz (100-350V DC) or 15-30V AC 50/60Hz (12-48V DC), Manual override by handle (ER10 and ER20) or by external shaft (ER35 to ER100), 4 adjustable limit switches, Self regulated anti-condensation heaters, Electronic torque limiter, Failure report relay, RS485 connection, Mechanical travel stops, Working temperature from -10°C to +55°C, 3P+T DIN43650 connector, Electric connection 1 x ISOM20, Declutching system for secured manual override

Actuator serie VR-VS-VT - Standard equipment :
Electric actuators on/off duty, On/Off or 3 modulating points control, IP67, Possible rotation angles : 90° ; 180° ; 270°, Duty rating 50%, Polyamide cover UL94V0 approved or aluminium cover, Position indicator, Available voltages : VR/VS : 100-240V 50/60Hz (100-350V DC) or 15-30V AC 50/60Hz (12-48V DC), 400V tri VT : 400V tri, 230V 50/60Hz, Manual override by hand wheel, 4 adjustable limit switches 5A (VT=16A), Self regulated anti-condensation heaters 10W (except VT and 400 tri), Torque limiter monitored by software (except VT and 400 tri), Failure report relay (except VT and 400 tri), RS485 connection (except VT and 400 tri), Mechanical travel stops, adjustable for VS and VT, Working temperature from -10°C to +55°C, 3P+T DIN43650 connector, Electric connection 2 x ISOM20, Plates F05/F07, F07/F10 or F10/F12 according to ISO 5211

L. BERNARD **ROTORK** **AUMA** **BELIMO**

Triphase multiturn with gear box.

Socla

LISTEN

- A team of sales assistants and technicians listen to you, give you an answer and help you in the choice of product, follow-up of orders. Competent professionals, they take care of making you save time.

INFORM

- From technician to technician, a dense and accessible information.
  Price-list catalogue - Technical date sheets
  Price-list manuals - Interactive CD-ROM with research criterias, demonstration videos, web site.
  Tools are as various as user-friendly

Operating instructions are available on our web site www.socla.com or on request details with our Sales Department

A SIMPLE CHOICE
BY APPLICATION FAMILIES

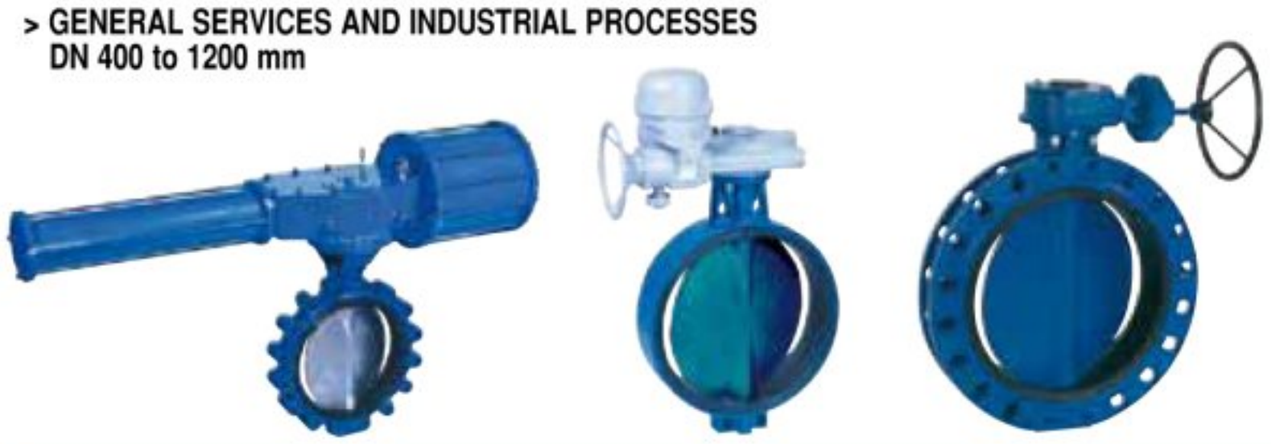
Seven families in accordance with the Pressure Equipment Directive 97/23/CE.
To simplify your approach and make your choice easier, Socla has classified its products according to 7 families, each of them designed for a specific series of applications.

SYLAX CE

> GENERAL SERVICES AND INDUSTRIAL PROCESSES
> DN 25 to 350 mm

ENODIA CE

> GENERAL SERVICES AND INDUSTRIAL PROCESSES
> DN 400 to 1200 mm



BOMBYX CE

> FIRE PROTECTION CNPP and FM versions
> DN 32 to 300 mm

APORIA CE

> GAS
> DN 40 to 300 mm

TILIS CE

> FOOD AND CHEMICAL INDUSTRIES
> DN 32 to 300 mm

LYCENE CE PED 97/23/CE ATEX 94/9/CE

> CHEMICAL, FOOD PROCESSING AND PURE SUBSTANCES
> DN 32 to 300 mm

EMARIS CE PED 97/23/CE ATEX 94/9/CE

> DISTRICT HEATING, STEAM, INDUSTRIAL PROCESSES, PETROCHEMISTRY, INDUSTRY
> DN 50 to 300 mm

IN BRIEF, AN ANSWER
TO EACH OF YOUR NEED

MAIN ADMISSIBLE FLUIDS

- **Water:**
  - **Drinking**
  - **Salt**
  - **Waste**
- **Gas**
- **Air**
- **Food products**
- **Pulverulents**
- **Inflammables**
- **Toxic liquids**
- **Explosives**
- **Volatile liquids**
- **Polymerisables**
- **Cristalline liquids**
- **Corrosive liquids**
- **Abrasives**
- **Heat-carrying liquids**
- **Radioactive liquids**
- **Hot liquids**
- **Cold liquids**
- **Granular liquids**
- **Viscous liquids**
- **Paste**
- **Agressive liquids**
- **Steam**

Note : temperature and/or pressure depending upon the concentration of certain fluids may require a special adaptation. Please consult us.

ADMISSIBLE TEMPERATURE

in the standard range of products

- Peak temperatures between –50°C and + 250°C
- Working temperatures between –50°C and + 220°C

PRESSURES

Torques at PS 50 bar.

NOMINAL DIAMETERS

From **25 mm** to **1 200 mm** in standard.

APPROVALS

DNV
WRAS Water Regulations Advisory Scheme
ABS EUROPE LTD
DVGW
Lloyd's Register
AV INTER
AIB VINCOTTE
BUREAU VERITAS
CSTB Le futur en construction
RINA
CNPP
PUB SINGAPORE
FM
NF ROB-GAZ
C.A.M.E.R.A.
STROJÍRENSKÝ ZKUŠEBNÍ ÚSTAV
TOTAL
ACS AGREMENT MINISTERIEL
RENAULT Automobiles
SVGW SSIGE SVGW
GROUPE PSA
SNCF
CE

Silicone-and grease free butterfly valves (Technical data sheet on resquest).

THE PED REQUIREMENTS CLEARLY DISPLAYED

PRESSURE EQUIPMENT DIRECTIVE 97/23/CE

Manufacturing in accordance with the directive requirements for pressure, DN and nature of fluids.

FAMILY		LINERS	DN mm	Cat.	MOUNTING	PFA water	PS L1	PS L2	PS G1	PS G2
SYLAX	6 bar	EPDM, Nitrile (CC333G disc), White EPDM	32 to 150	3.3	Flanges	6	6	6		6
					End of line	4	4	4		4
			200 to 350	I	Flanges	6	6	6		6
					End of line	4	4	4		4
		Nitrile (except CC333G disc), Neoprene, Butyl, Hypalon, Natural rubber, White Natural rubber	32 to 100	I	Flanges	6	6	6	6	6
					End of line	4	4	4		4
			125 to 350	II	Flanges	6	6	6	6	6
					End of line	4	4	4		4
	10 bar	EPDM, Nitrile (CC333G disc), White Nitrile, Carboxylated nitrile, White EPDM	25 to 100	3.3	Flanges	10	10	10		10
					End of line	6	6	6		6
			125 to 150	I	Flanges	10	10	10		10
					End of line	6	6	6		6
			200 to 350	I	Flanges	10	10	10		10
					End of line	6	6	6		6
		Nitrile (except CC333G disc), FKM	25	3.3	Flanges	10	10	10	10	10
					End of line	6	6	6		6
			32 to 100	I	Flanges	10	10	10	10	10
					End of line	6	6	6		6
			125 to 350	II	Flanges	10	10	10	10	10
					End of line	6	6	6		6
		Silicone	32 to 100	I	Flanges	10	10	10	10	10
					End of line	6	6	6		6
			125 to 150	II	Flanges	10	10	10	10	10
					End of line	6	6	6		6
			200 to 350	II	Flanges	6	6	6	6	6
					End of line	4	4	4		4
	16 bar	EPDM, Nitrile (CC333G disc)	32 to 100	3.3	Flanges	16	16	16		10
					End of line	12	12	12		10
			125	I	Flanges	16	16	16		10
					End of line	12	12	12		10
			150	I	Flanges	16	10	16		10
					End of line	12	6	12		10
			200 to 300	I	Flanges	16	10	16		10
					End of line	10	6	10		10
			350	I	Flanges	16	10	16		10
					End of line	8	6	8		8
		Nitrile (except CC333G disc), Neoprene, Butyl, Hypalon, Natural rubber, White natural rubber	32 to 100	I	Flanges	16	16	16	10	16
					End of line	12	12	12		12
			125 to 150	II	Flanges	16	16	16	10	16
					End of line	12	12	12		12
			200 to 300	II	Flanges	16	16	16	10	10
					End of line	10	10	10		10
			350	II	Flanges	16	16	16	10	10
					End of line	8	8	8		8
	20 bar	EPDM, Nitrile (CC333G disc)	32 to 250	3.3	Flanges	20		20		
					End of line	12		12		
			300 to 350	I	Flanges	20		20		
					End of line	12		12		
		Nitrile (except CC333G disc), Neoprene, Butyl, Natural rubber, White natural rubber	32 to 100	3.3	Flanges	20	20	20		
					End of line	12	12	12		
			125 to 350	II	Flanges	20	20	20		
					End of line	12	12	12		
	25 bar	EPDM, Nitrile (CC333G disc)	32 to 150	3.3	Flanges	25		25		
					End of line	16		16		
		Nitrile (except CC333G disc)	32 to 80	3.3	Flanges	25	25	25		
					End of line	16	16	16		
			100 to 150	II	Flanges	25	25	25		
					End of line	16	16	16		
ENODIA	6 bar	EPDM, Nitrile, White EPDM, White Nitrile, Carboxylated nitrile	400 to 500	I	Flanges	6	6	6		6
					End of line	4	4	4		
			600	I	Flanges	6	6	6		5
					End of line	4	4	4		
			700 to 800	I	Flanges	6	6	6		4
					End of line	4	4	4		
			900 to 1000	I	Flanges	6	6	6		3,5
					End of line	4	4	4		
			1200	I	Flanges	6	6	6		2,5
					End of line	4	4	4		
		Silicone, Neoprene, Butyl, Hypalon, FKM, Natural rubber, White natural rubber	400 to 500	I	Flanges	6	6	6		6
					End of line	4	4	4		
			600 to 800	II	Flanges	6	6	6		6
					End of line	4	4	4		
			900 to 1000	II	Flanges	6	6	6		5
					End of line	4	4	4		
			1200	II	Flanges	6	6	6		4
					End of line	4	4	4		
	10 bar	EPDM, Nitrile, White EPDM	400 to 1200	I	Flanges	10	10	10		
					End of line	6	6	6		
		Hypalon, FKM	400 to 1200	I	Flanges	10	10	10		
					End of line	6	6	6		
	16 bar	EPDM, Nitrile	400 to 1200	I	Flanges	16		16		
					End of line	8		8		
		Neoprene, Butyl, Natural rubber, White natural rubber	400 to 1200	I	Flanges	16	16	16		
					End of line	8	8	8		
BOMBYX	16 bar	EPDM (APSAD approval), EPDM (FM approval)	32 to 300	3.3	Flanges	16		16		
					End of line	12		12		
APORIA	6 bar	Nitrile	32 to 100	I	Flanges	6			6	6
					End of line	4				
			125 to 300	II	Flanges	6			6	6
					End of line	4				4
	8 bar	Nitrile	32 to 100	I	Flanges	8			8	8
					End of line	6				6
			125 to 300	II	Flanges	8			8	8
					End of line	6				6
TILIS		EPDM/PTFE, Silicone/PTFE	32 to 100	I	Flanges	10	10	10	10	10
					End of line	6	6	6		6
			125 to 150	II	Flanges	10	10	10	10	10
					End of line	6	6	6		6
			200 to 300	II	Flanges	6	6	6	6	6
					End of line	4	4	4		4
LYCENE		PTFE/Silicone	40 to 100	I	Flanges	10	10	10	10	10
					End of line	6	6	6		6
			125 to 300	II	Flanges	10	10	10	10	10
					End of line	6	6	6		6
EMARIS	50 bar	PTFE reinforced	50 to 100	II	Flanges	50	50	50	50	50
					End of line	36	36	36	36	36
			125	II	Flanges	50	50	50	28	40
					End of line	36	36	36		36
			150	II	Flanges	50	50	50	23	33
					End of line	36	36	36		33
	25 bar		200	II	Flanges	25	25	25	17,5	25
					End of line	18	18	18		18
			250	II	Flanges	25	25	25	14	20
					End of line	18	18	18		18
			300	II	Flanges	25	25	25	11,5	16,5
					End of line	18	18	18		16,5

END OF LINE FOR BUTTERFLY VALVES

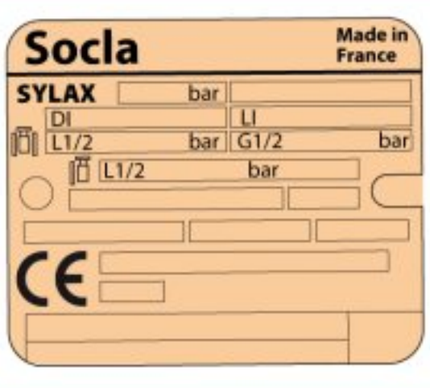
Body	DN	Materials	End of line
Ring shaped	50 to 100	GJS	NO
Centering lugs	25 to 600	GJL	NO
Centering lugs	25 to 150	GJS	YES
Centering lugs	200 to 1000	GJS	NO
Centering lugs	32 to 300	Steel	NO
Centering lugs	32 to 300	Stainless steel	NO
Central flange	80 to 200	GJS	YES
Tapped lugs	32 to 500	GJL	YES
Tapped lugs	32 to 500	GJS	YES
Tapped lugs	32 to 300	Steel	YES
Tapped lugs	32 to 300	Stainless steel	YES
Double flange	200 to 1000	GJS	YES

For end of line use, the indicated pressures have been derated and are shown on the valve identification plate.

Important notice :
The indicated pressures and temperature for the different categories of fluids (L1/L2/G1/G2) are not a guarantee of use.
Therefore, it is essential to validate the use of products under given operating conditions to our technical department.

TRACEABILITY

Identification and traceability ensured by riveted metal tag.



Protection

Non-return

Regulation

Shut Off

Socla SAS
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Working hours
Monday to Thursday 8 a.m. to 5.30 p.m.
Friday 8 a.m. to 1.30 p.m.

Socla - Desbordes - Sylax

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