



-  ANSI 150 - Lugged & Tapped Butterfly Valve
-  ANSI 150 - Lugged & Gewinde Absperrklappe
-  ANSI 150 - Actuador y válvula de mariposa roscado
-  ANSI 150 - crantée et vanne papillon taraudé

- 2" - 8" Ductile Iron Butterfly Valve- Lugged Pattern ANSI 150
- 2" - 8" Ductile Iron Butterfly Ventil- Lugged Pattern ANSI 150
- 2" - 8" Hierro Dúctil mariposa Valve- Lugged patrón ANSI 150
- 2" - 8" Ductile Iron Butterfly Valve- crantée Motif ANSI 150



- Lugged and Tapped ANSI 150
- Lever or Gearbox Options
- 2" to 8" to fit
- PN16 Rated
- Choice of liner

### DESCRIPTION

Lugged and Tapped ANSI 150 butterfly valve. Blue epoxy coated ductile iron body. Options for NBR (BUNA) or EPDM Liner, 316 Stainless Steel Disc. Notched (throttling) locking lever operator up to 12", with gearbox operation above 12". The valve has an ISO 5211 top works for direct mount of electric or pneumatic actuators. Rated PN16 Complies with 97/23/CE (PED) Directive CE 1115

### ANSI 150 Lugged Pattern Butterfly Valve



#### Description

A general purpose Lugged and Tapped butterfly valve fitted with either a NBR or EPDM liner, 316 stainless steel disc and epoxy coated ductile iron body. Suitable to fit in between flanges ANSI 150 Flanges. Has an ISO 5211 Top works for direct mounting. Temp -10°C to 80°C NBR and Temp -10°C to 120°C EPDM



#### Beschreibung

Ein Allzweck geschleppt und tippte Absperrklappe entweder mit einem NBR oder EPDM Liner, 316 Edelstahlscheibe und beschichtet Sphäroguss Körper angebracht. Geeignet, zwischen den Flanschen ANSI 150 Flansche passen. Hat ein ISO 5211 Top arbeitet für Direktmontage. Temp -10 ° C bis 80 ° C und NBR -10 ° C bis 120 ° C Temp EPDM



#### Descripción

Un propósito general de la válvula de mariposa con tacos y roscado equipado ya sea con un NBR o revestimiento EPDM, 316 disco de acero inoxidable y recubrimiento epóxico cuerpo de hierro dúctil. Adecuado para encajar entre bridas ANSI 150 Bidas. Tiene una ISO 5211 Top trabaja para el montaje directo. Temperatura -10°C a 80°C NBR y -10°C de temperatura a 120°C EPDM



#### Description

Un objectif général papillon crantée et taraudé équipé soit d'un NBR ou EPDM revêtement, 316 disque en acier inoxydable et revêtu époxy corps fonte ductile. Convient à insérer entre brides ANSI 150 Brides. A une ISO 5211 Haut travaille pour un montage direct. Temp -10°C à 80°C NBR et -10°C à 120°C Temp EPDM

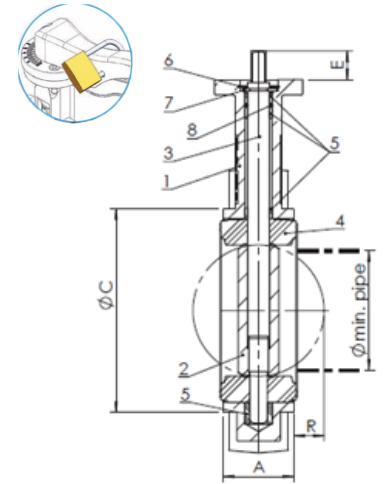
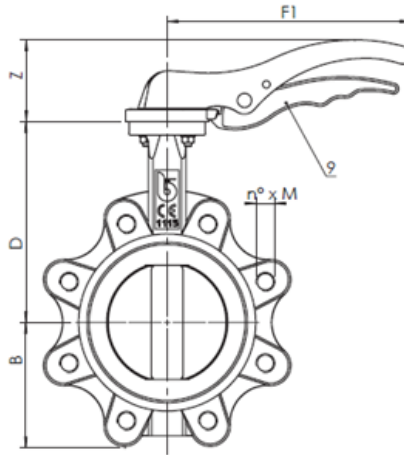
EPDM or BUNA Liner



ANSI 150 - Lugged & Tapped Butterfly Valve  
 ANSI 150 - Lugged & Gewinde Absperrklappe  
 ANSI 150 - Actuador y válvula de mariposa roscado  
 ANSI 150 - crantée et vanne papillon taraudé

## Lugged Pattern Butterfly Valve

- Lugged and Tapped
- Lever or Gearbox Options
- 2" to 8" to fit
- PN16 Flanges







Material List	
Body	Epoxy Coated Ductile Iron
Disc	316 Stainless Steel
Liner	NBR (BUNA) or EPDM
Shaft	Stainless Steel
Bushing	PTFE
Washer	Galvanised Carbon Steel
CirClip ISO 3075	Steel
O-Ring	Viton
Lever	Aluminium up to 6" Ductile Iron 8" & Above
Bolts	Galvanised Carbon Steel

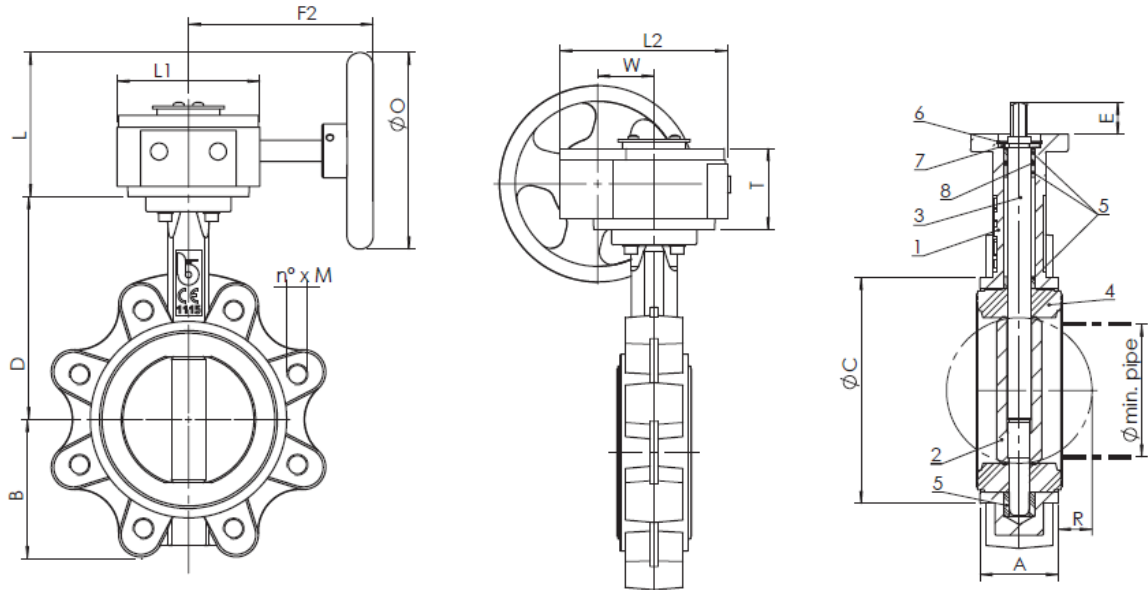
EPDM or BUNA Liner

## Dimensions with Lever

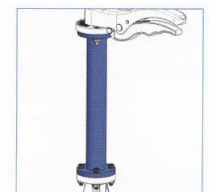
SIZE	A	ØC	D	B	F1	Z	R	Ømin pipe	n* x m
2"	43	89	126	62	170	50	5	31	TBA
2 1/2"	46	102	136	69	170	50	9	45	TBA
3"	46	118	150	90	206	69	17	65	TBA
4"	52	150	170	106	206	69	26	90	TBA
5"	56	174	180	119	385	90	34	110	TBA
6"	56	205	200	131	385	90	50	146	TBA
8"	60	260	230	166	400	72	71	194	TBA

-  ANSI 150 - Lugged & Tapped Butterfly Valve
-  ANSI 150 - Lugged & Gewinde Absperrklappe
-  ANSI 150 - Actuador y válvula de mariposa roscado
-  ANSI 150 - crantée et vanne papillon taraudé

## Lugged Pattern Butterfly Valve



Dimensions with Gearbox														
SIZE	A	ØC	D	B	F2	L	T	L1	L2	W	ØO	R	Ø min pipe	n* x m
2"	43	89	126	62	170	102.5	65	110	130	45	150	5	31	TBA
2 1/2"	46	102	136	69	170	102.5	65	110	130	45	150	9	45	TBA
3"	46	118	150	90	170	102.5	65	110	130	45	150	17	65	TBA
4"	52	150	170	106	170	102.5	65	110	130	45	150	26	90	TBA
5"	56	174	180	119	170	102.5	65	110	130	45	150	34	110	TBA
6"	56	205	200	131	170	102.5	65	110	130	45	150	50	146	TBA
8"	60	260	230	166	235	190	78	155	176	63	300	71	194	TBA



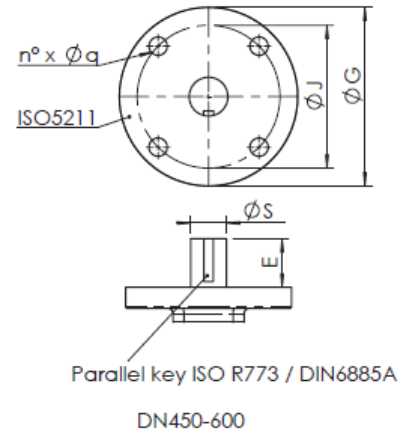
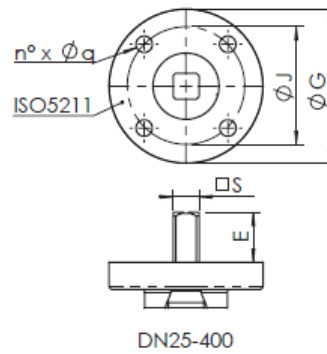
**EPDM or BUNA Liner Lugged and Tapped to fit ANSI 150 Flanges**



ANSI 150 - Lugged & Tapped Butterfly Valve  
 ANSI 150 - Lugged & Gewinde Absperrklappe  
 ANSI 150 - Actuador y válvula de mariposa roscado  
 ANSI 150 - crantée et vanne papillon taraudé

**Valves**<sup>™</sup>  
**ONLINE**

## Lugged Pattern Butterfly Valve



Dimensions								Weights	
SIZE	ISO	ØG	ØJ	n'xØq	□S	E	ØS	With Lever	With Gearbox
2"	F05	65	50	4X7	9	21		2.7	5.8
2 1/2"	F05	65	50	4X7	9	21		3.5	6.1
3"	F05	65	50	4X7	11	21		4	6.4
4"	F05	65	50	4X7	11	21		4.8	7
5"	F07	90	70	4X9	14	27		7.3	8.1
6"	F07	90	70	4X9	14	27		8.2	9.6
8"	F10	125	102	4X11	17	27		15	16

Pressure / Temperature	
Pressure	2" - 8" - PN16
Temperature	NBR -10 °C to 80 °C
	EPDM -10 °C to 120 °C



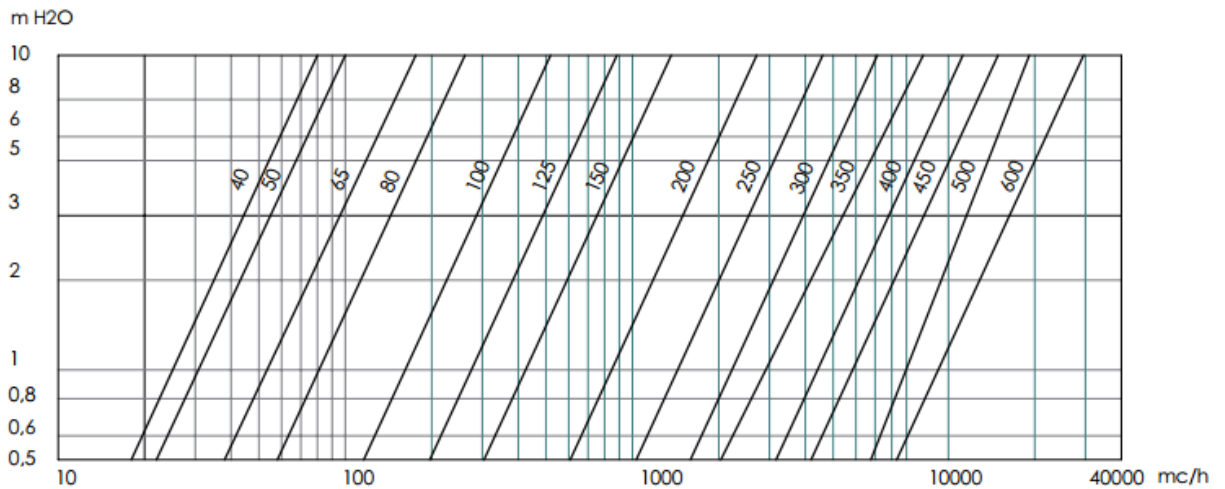
ANSI 150 - Lugged & Tapped Butterfly Valve  
ANSI 150 - Lugged & Gewinde Absperrklappe  
ANSI 150 - Actuador y válvula de mariposa roscado  
ANSI 150 - crantée et vanne papillon taraudé

# Valves™

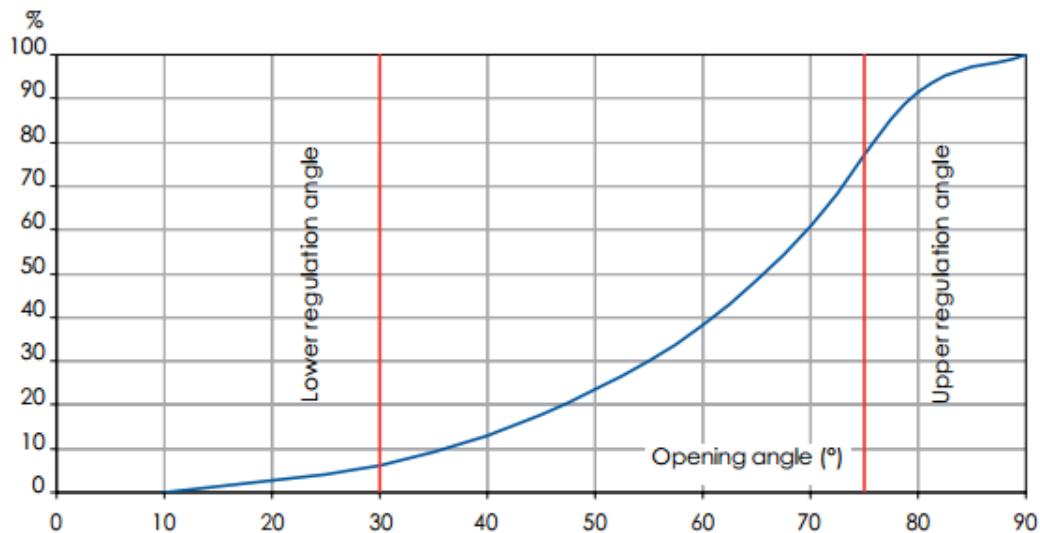
ONLINE

## Lugged Pattern Butterfly Valve

**Head loss** Fluid: water (1m H<sub>2</sub>O = 0,098bar) - Head loss with shutter fully opened



**Flow rate / opening position chart** Flow percentage on the flow at full opening under the same loss of head.





ANSI 150 - Lugged & Tapped Butterfly Valve  
 ANSI 150 - Lugged & Gewinde Absperrklappe  
 ANSI 150 - Actuador y válvula de mariposa roscado  
 ANSI 150 - crantée et vanne papillon taraudé

## Lugged Pattern Butterfly Valve

### INSTALLATION AND TRANSPORT

- Keep in dry and closed place.
- While stored, the disc must be partially open (Fig. 1).
- Avoid knocks, take special care to protect lever, hand wheel, gear boxes/actuators.
- Do not use lever or hand wheel to lift the valve.

### MAINTENANCE

The valve does not require maintenance.

### RECOMMENDATIONS

Before carrying out maintenance or dismantling the valve, be sure that the pipes, valves and liquids have cooled down, that the pressure has decreased and that the lines and pipes have been drained in case of toxic, corrosive, inflammable or caustic liquids.

Temperatures above 50°C and below 0°C might cause damage to people.

### INSTALLATION

- Handle with care.
- Do not weld the flanges to the piping after installing the valve.
- Water hammers might cause damage and ruptures. Inclination, twisting and misalignments of the piping may subject the valve to stress, once installed. It is recommended that elastic joints be used in order to reduce these effects as much as possible. The disc must be partially open (Fig. 1).

FIG. 1

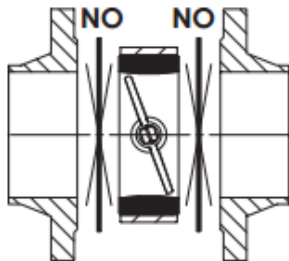


FIG. 2

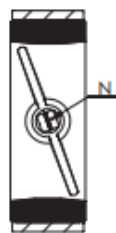
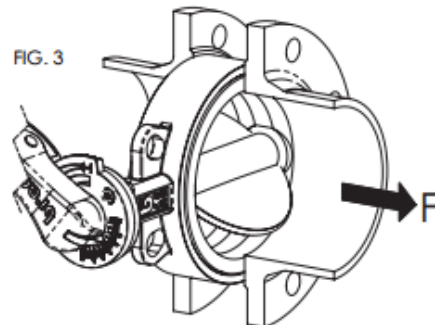


FIG. 3



The stem has a machined notch N (Fig. 2), which indicates the position of the disc; consider this indication, in order to mount the levers and actuators correctly.

The mounting can be made with the stem axis in a horizontal or vertical position. In case the fluid contains suspended solid particles (for example, sand, impurities, etc.) or solid particles that may leave deposits, it is recommended that the valve be installed with its axis horizontal, and in such a way that the bottom end of the disc opens in the direction of flow, F. (Fig. 3)

The item L9 allows the dismantling of the pipes downstream, for pressures below 6 bar. For end of line installation:

- SERIES J9 (all pressures), series L9 (pressure > 6 bar): counter flange **MUST** be installed
- SERIES L9 (pressure < 6 bar): it is recommended that a counter flange be installed.

Verify maximum working pressure and limits of use under section "maximum pressure".

Place the valve between two flanges. While placing the valve, ensure there is sufficient space in order in order not to damage the rubber. Do not mount seals between valve and flanges (Fig. 1). Carefully clean the contact surface. Do not install the butterfly valve in direct contact with a rubber surface (for example, expansion joints); the best installation is when the rubber is in contact with metal (Fig. 4).

In order to achieve correct working, the internal diameter of the pipe must be greater than the value indicated in the chart. Do not weld the flanges to the tube if the valve has already been installed. It is recommended that the flanges listed in the chart be used. As far as possible, avoid flat flanges for welding (EN 1092 01 type); if these flanges are used, ensure perfect centring between the flange and valve, and be sure to weld exactly edgewise to the flange. Do not let protrusions or sharp edges on the piping cause damage to the rubber surface of the valve (Fig. 5).

FIG. 4

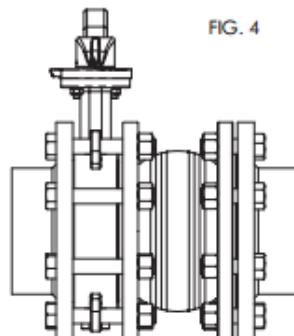
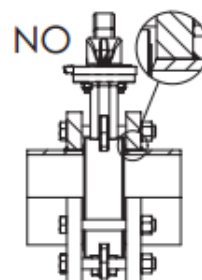






FIG. 5



-  ANSI 150 - Lugged & Tapped Butterfly Valve
-  ANSI 150 - Lugged & Gewinde Absperrklappe
-  ANSI 150 - Actuador y válvula de mariposa roscado
-  ANSI 150 - crantée et vanne papillon taraudé

## Lugged Pattern Butterfly Valve

Centre the valve on holes while using wafer type valves. Tighten the bolts crosswise and progressively, in order to distribute the pressure equally before the body and flanges come into contact with each other. (Fig. 6)

With regard to the Lug version, check that the screws are the correct length, in order to allow complete compression of the lining rubber.

Turbulences of the fluid might increase erosion and reduce the life-cycle of the valve. Install the valve at a distance of at least 1 x DN upstream, and at a distance of 2-3 x DN downstream, away from fittings or bends.

In the open position, the valve is larger than the nominal Face to Face value.

Check that no other components of the piping interfere or create damage or malfunction (Fig. 7A). If they do, a spacer should be inserted for the valve to operate correctly (Fig. 7B).

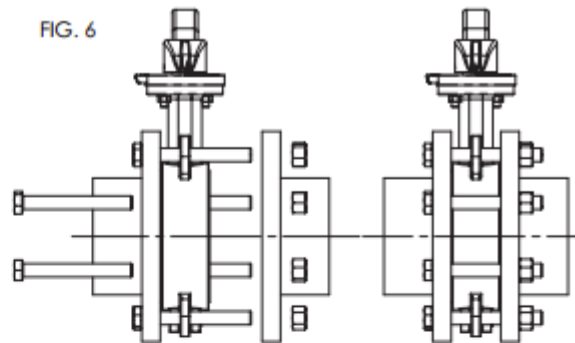


FIG. 7A

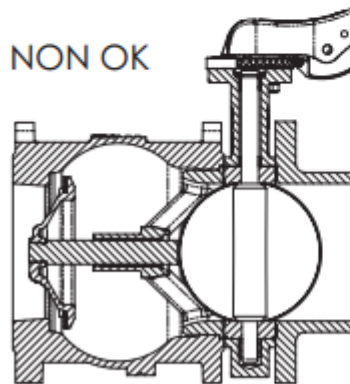


FIG. 7B

