

# TITANIA Triple offset butterfly valve

Triple offset butterfly valve Titania is specially designed to ensure a perfect tightness in steam, gas, chemical, petrochemical and cryogenic applications.

**DN from 80 to 1400**

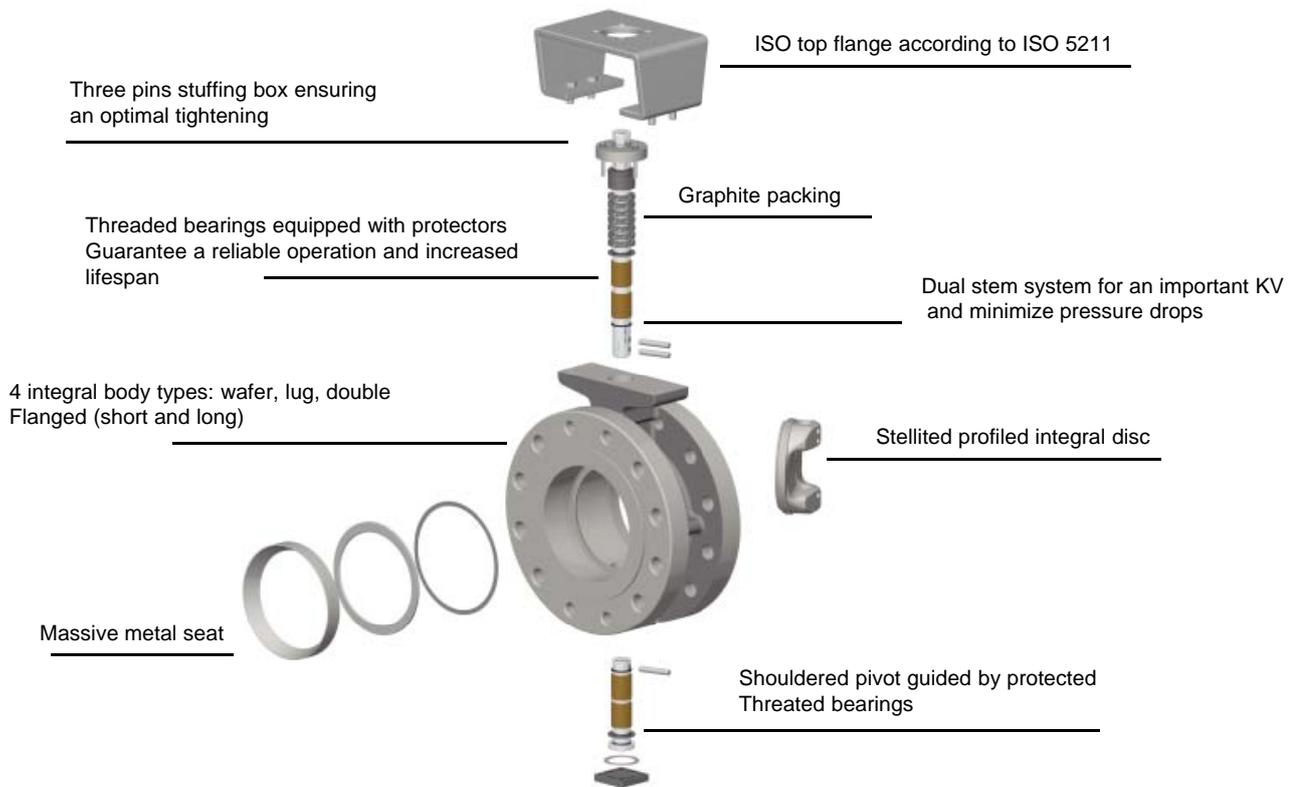


Material according to PED 97/23/CE



ATEX version according to directive 94/9/CE, available on request

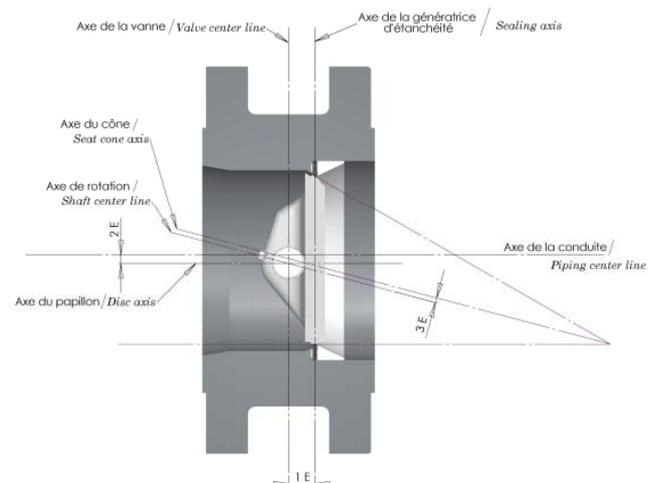
# TITANIA Triple offset butterfly valve



**Offset n°1 :** The center of rotation is offset from the thightness surface to allow a total contact around the entire seal.

**Offset n°2 :** The center of rotation of the disc is offset from the pipe centerline to allow a cleaning opening valve.

**Offset n°3 :** The third offset issue from the seal cone tilting cancel jamming and friction and allow complete tightness without seal deformation (solid seal).



## Features

- Dual stem system to minimize pressure drops, KV more imporant
- Closing without jamming and friction
- No deformation on the seal
- Bi-directional tightness
- Seal in the body, away from the centre of the pipe (maximum speed location)
- Stellited disc
- Three pins stuffing box
- Important rangeability

# TITANIA Triple offset butterfly valve

**Range:** DN from 80 to 1400 – upper sizes on request  
**Pressure:** Up to 150 bar  
**Body:** Carbon steel – Stainless steel  
**Disc:** Carbon steel – Stainless steel  
**Seat:** Stainless steel – Stainless steel/Graphite  
**Stem:** Stainless steel

**Body type :** Wafer  
Lug  
Double flanges

**Mounting:** ISO PN10/16/25/40 according EN 558-1  
ASA 150/300/600/900 according EN 558-2  
Table 13 and 14 for double flange body  
Table 16 for wafer and lug body



## Advantages/Benefits

*The permanent torque necessary to close the valve ensures a perfect bi-directional sealing.*

*The triple offset quarter-turn design avoid any risk of friction and jamming of the disc on the seat. Increased valve lifespan.*

*Without friction between the seat and the disc, the driving torque is very low, in comparison with other type of valves (gate, ball etc).*

*The quarter-turn system simplifies the electric or pneumatic automation of the valve.*

*Low weight in comparison with other kind of valves (gate, ball,) minimizes the costs of installation of supporting facilities and maintenance.*

*The profiled disc with stem in two parts reduces pressure drop and allows a high KV for regulation application.*

*The packaging system with three pins ensures a perfect sealing towards outside.*

*Wide temperature range (-196°C to +700°C)*

*The ISO 5211 top flange allows the mounting of every kind of actuators.*

*The FIRE SAFE design, according to BS 6755 part 2-87, with amendment 2 (june 1991) allows the use of this valve on every combustible medium application.*

Gear box operating



Electrical actuator

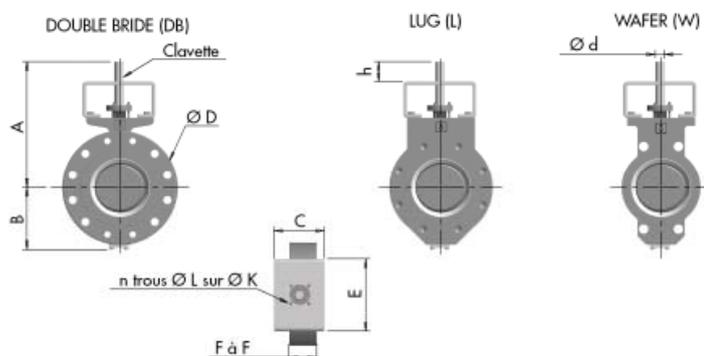


Pneumatic Actuator



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## Dimensions



Up to 1400 mm

DN	80	100	150	200	250	300	350	400	450	500	600	700	
A	200	225	295	325	360	400	440	530	560	650	720	860	
B	120	143	174	210	247	286	317	356	388	428	497	558	
d	16	20	25	35	40	45	50	60	65	75	85	100	
Clavette / Pin	5x5x30	6x6x40	8x7x50	10x8x60	12x8x65	14x9x70	16x10x75	18x11x80	18x11x90	20x12x105	24x14x105	28x16x140	
h	33	43	53	65	70	75	80	85	95	110	125	150	
E	140	140	200	200	200	200	200	250	300	300	300	350	
C	60	70	115	135	135	160	160	160	270	270	270	320	
n	4	4	4	4	4	4	4	4	8	8	8	8	
Ø L	6,5	9	13	18	18	20	20	20	18	18	18	22	
Ø K	50	70	125	140	140	165	165	165	254	254	254	298	
Platine / ISO Top flange	F05	F07	F12	F14	F16	F16	F16	F16	F25	F25	F25	F30	
F à F	W. série 16	64	64	76	89	114	114	127	140	152	152	178	229
	L. série 16	64	64	76	89	114	114	127	140	152	152	178	229
	DB. série 13	114	127	140	152	165	178	190	216	222	229	267	292
	DB. série 14	180	190	210	230	250	270	290	310	330	350	390	430
Ø D	W. ASA 150	127	162	218	270	324	381	413	470	533	584	692	795 (PN 16)
	W. ASA 300	127	162	218	270	324	381	413	470	533	584	692	-
	L. ASA 150	190	229	279	341	405	483	533	597	640	698	813	-
	L. ASA 300	210	254	318	381	444	521	584	648	711	775	914	-
	DB. série 13	210	254	318	381	444	521	584	648	711	775	914	-
	DB. série 14	210	254	318	381	444	521	584	648	711	775	914	-

InterApp AG  
Grundstrasse 24  
CH-6343 Rotkreuz  
Tel. +41 (0)417982233  
Fax +41(0)417982234  
[info@ch.interapp.net](mailto:info@ch.interapp.net)

InterApp Germany  
Hocstrasse 3  
D-78727 Oberndorf am Neckar  
Tel. +49 (0)77189668930  
Fax +49(0)77189668935  
[info@de.interapp.net](mailto:info@de.interapp.net)

InterApp Austria  
Kolpingstrasse 19  
A-1230 Wien  
Tel.+43 (0)16162371-0  
Fax +43(0)1616237199  
[info@at.interapp.net](mailto:info@at.interapp.net)

InterApp Italy  
Via Gramsci 29  
20060 Pero (MI)  
Tel.+39 02 339371  
Fax +39 02 33937200  
[info@it.interapp.net](mailto:info@it.interapp.net)

InterApp Spain  
J.Ramon Jimenez 16  
E-28860 Paracuellos de Jarama  
Tel.+34(0)916584883  
Fax +34(0)916581430  
[info@es.interapp.net](mailto:info@es.interapp.net)

InterApp France  
La Picoterie  
F-14400 Arganchy  
Tel.+33(0)674366134  
Fax +33(0)231211895  
[info@fr.interapp.net](mailto:info@fr.interapp.net)

InterApp Hungary  
Bécsi út 100  
H-1034 Budapest  
Tel.+36(1)4369702  
Fax +36(1)4369700  
[info@hu.interapp.net](mailto:info@hu.interapp.net)