

COMPLETE LINE



  
**VCW**

TECNOLOGIA EM RETENÇÃO DE FLUXOS

[www.vcwvalvulas.com.br](http://www.vcwvalvulas.com.br)

# DOUBLE OFFSET BUTTERFLY VALVE HIGH PERFORMANCE

Series VBS valve is a high performance double offset butterfly valve. With versatile design, it introduces several innovations that set it apart from other existing valves on the market and aims to serve with excellence the water market and its needs.

The great advantage is the double offset disc (butterfly) system and sealing system with interchangeable seat in the body, providing easy maintenance and extending useful life.

## CHARACTERISTICS

- ✓ Lug Type/Wafer Type: DN 50mm (2") – 600mm (24") (other diameters on request)
- ✓ Flanged Type: DN 80mm (3") – 1800mm (72")
- ✓ Construction: ABNT 15768 | ISO 5752 513 e S20 | API 609B
- ✓ Body material: Ductil iron, carbon steel, stainless steel, others
- ✓ Disc material: Ductil iron, carbon steel, stainless steel, others
- ✓ Sede: PTFE | RPTFE | EPDM | BUNA-N | POLYURETHANE, others
- ✓ Pressure Rating: PN 10 – PN16 – PN25 / 150# / 300#, others
- ✓ Installation: NBR 7675 | ISO 2531 | ANSI | AWWA
- ✓ Actuation: Manual | Pneumatic | Electric



FLANGED



TYPE WAFER



LUG

### BODY VALVE

One piece cast body with machined position stopper, complying with drilling and mounting between flanges standards.



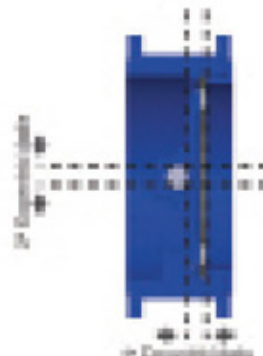
### SEALING SEAT

Elastomer replaceable seat with "steel core" embedded to the body and fixed by a retaining ring.



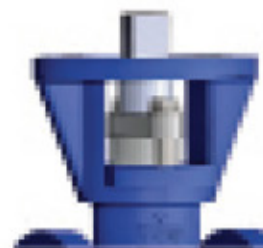
### SEALING SEAT

Replaceable PTFE seat with steel core and spiral wire.



### DOUBLE OFFSET DESIGN

Body, disc and stem are designed with an offset double system, reducing friction between the disc and seat, extending useful life, and allowing greater flow of fluid in small disc opening angles.



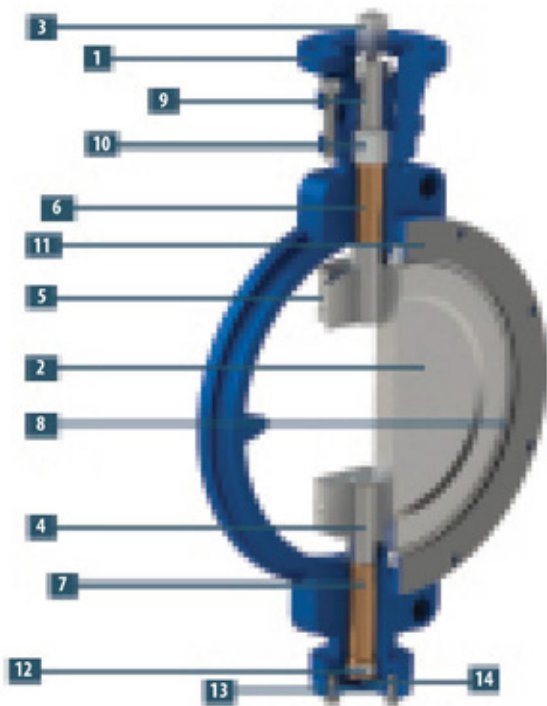
### PACKING GLAND

Reversed type allows gasket adjustment without dismantling actuation system.

### FINITE ELEMENT ANALYSIS RESEARCH AND DEVELOPMENT

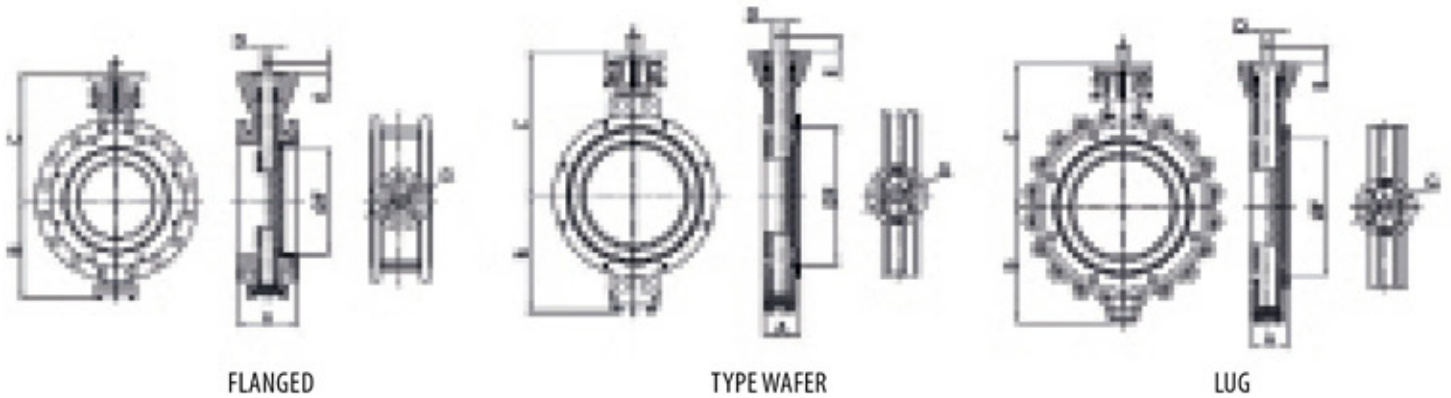
VCW products are designed using high technology to meet all international standards and customer requirements.





VALVE COMPONENTS	MATERIAL*	SPECIFICATION
1 - BODY	Carbon steel	ASTM A216 GR.WCB
	Stainless steel	ASTM A351 GR CF8 / CF8M
	Ductil iron	ASTM A536 GR 65-45-12
2 - DISC	Carbon steel	ASTM A216 GR.WCB
	Stainless steel	ASTM A351 GR CF8 / CF8M
	Ductil iron	ASTM A536 GR 65-45-12
3 - UPPER STEM	Stainless steel 17-4-PH	ASTM A276 304/316/410 ASTM A564 TIPO 630
4 - LOWER STEM	Stainless steel 17-4-PH	ASTM A276-316 ASTM A564 TIPO 630
5 - CONICAL PIN	Stainless steel 17-4-PH	ASTM A276-316 ASTM A564 TIPO 630
6 - UPPER BUSHING	BRONZE	TM 23 SAE 660
7 - LOWER BUSHING	BRONZE	TM 23 SAE 660
8 - SEAT	Polymer	PTFE / RTFE
	Elastomer	BUNA-N / EPDM / Fluorelastomer [ VITON ] / HYPALON / SILICONE
9 - PACKING GLAND	Ductil iron	ASTM A536 Grau 65-45-12
	Carbon steel	ASTM A351
10 - GASKET	PTFE braided	PTFE
11 - BODY CAP	Carbon steel	ASTM A36
	Stainless steel	ASTM A240
12 - BOTTOM DISC	Stainless steel	ASTM A276
13 - BOTTOM CAP	Carbon steel	ASTM A36
	Stainless steel	ASTM A240
14 - BACK BUSHING	BRONZE	SAE 660

\*The materials provided are for guidance only and will be provided as requested by the customer



FLANGED

TYPE WAFER

LUG

DN	FLANGED		WAFER/LUG	VALVE DIMENSIONS						
	AWWA C504 SHORT BODY	ISO 5752 SERIE 13	ISO 5752 SERIE 20 API609B	B	C	D	E	F	G - FLANGEADA	G - WAFER/LUG
50 (2")	-	108	43	80	110	9	18	48	F07	F07
75 (3")	127	114	46	110	185	9	18	74	F07	F07
100 (4")	127	127	52	130	202	11	20	95	F10	F07
150 (6")	127	140	56	170	280	17	27	145	F10	F10
200 (8")	152	152	60	200	320	22	30	190	F12	F10
250 (10")	203	165	68	222	340	27	36	244	F12	F12
300 (12")	203	178	78	260	390	27	41	295	F12	F12
350 (14")	203	190	78	290	420	36	41	345	F12	F12
400 (16")	203	216	102	350	451	36	41	375	F16	F14
450 (18")	203	222	114	360	492	36	38	430	F16	F16
500 (20")	203	229	127	380	511	46	65	480	F16	F16
600 (24")	203	267	154	450	561	55	70	580	F25	F25
700 (28")	*305	292	165	500	655	Ø80	110	680	F25	F25
800 (32")	*305	318	-	570	740	Ø80	110	775	F25	
900 (36")	305	330	-	620	802	75	108	870	F30	
1000 (40")	*305	410	-	700	856	75	80	980	F30	
1200 (48")	381	470	-	850	1080	Ø142,87	180	1180	F35	
1500 (60")	381	*600	-	1050	1290	Ø180	170	1480	F40	
1600 (64")	*457	600	-	1050	1050	Ø180	170	1591	F40	
1800 (72")	467	670	-	1230	1430	Ø220	150	1755	F48	


\*The DN indicated are not standardized, that is, not included in the manufacturing standard, they are manufactured according to the VCW manufacturing project.



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