Concrete Production

Butterfly Valves V2FF / V.FS

12

Description

V2FF Silo Discharge Butterfly Valves are manufactured from a single-piece fabricated carbon steel body lined with WAM®'s polymer composite SINT®. Due to the four corner slots the integrated upper square flange can be adapted to different sizes of silo outlet flanges. The valve disc is manufactured from surface-treated carbon steel.

VFS Butterfly Valves consist of two high-pressure die-cast semi-bodies manufactured from aluminium alloy, a swivel disc in SINT® polymer composite or cast iron, and a pre-stressed elastomer seal. While V1FS has a top flange and a beaded bottom section suitable for the attachment of a flexible sleeve, the V2FS comes with an identical top and bottom flange.

Function

For closing bins, hoppers and silos containing cement or similar materials, Butterfly Valves are among the most widely used equipment worldwide. What used to be custom-built items for specific applications, have been turned by WAM® into a mass-produced industrial product with features that allow extremely versatile use.
Material flow is intercepted by activating a manual lever or a pneumatic or electric actuator turning the valve disc 90 degrees, thus closing the valve hermetically.

Application

V2FF Silo Shut-Off Butterfly Valves are used in concrete batching plants wherever interception of gravity-fed cement or other powdery materials is required. They are fitted beneath hoppers, bins, or silos.

V.FS Butterfly Valves are used in concrete batching plants where interception of gravity-fed or pneumatically conveyed dry materials is required. They are fitted beneath hoppers, bins, silos, screw feeder outlets, or in a 0.2 bar (29 PSI) pressure-proof version, on water scales outlets. Due to their special design and to the engineering materials used, they represent a particularly cost-effective yet most efficient solution.

Benefits

- ✓ **Dust-tight (V.FS for water scales 0.2 bar pressure-proof);**
- ✓ **Quick fitting, retro-fittng and replacement;**
- ✓ **Modular design and easy maintenance thanks to small numbers of components;**
- ✓ **High flexibility thanks to interchangeable components;**
- ✓ **More durable thanks to special performance features.**

DS.110.V2FF-VFS.EN.March 2014.R00

Concrete Production

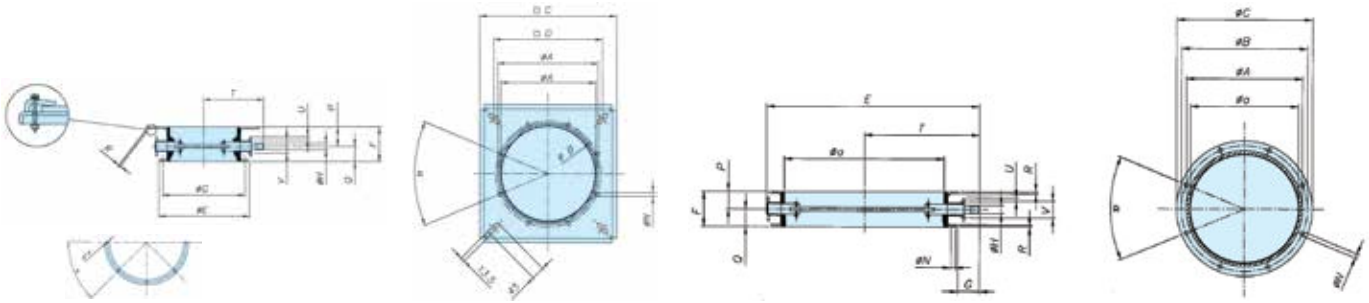
Butterfly Valves V2FF / V.FS

Technical Features / Performance

- V1FS with top flange and beaded bottom section suitable for fixing of flexible sleeve from 100 to 400mm (4 to 16 in)
- V2FS with identical top and bottom flange from 100 to 400mm (4 to 16 in)
- On request, pressure-proof up to 0.2 bar (2.9 PSI) and max. temperature of 100° C (212° F)
- Disc in cast iron or SNT®-coated
- Small number of components
- Easy part replacement

Overall Dimensions

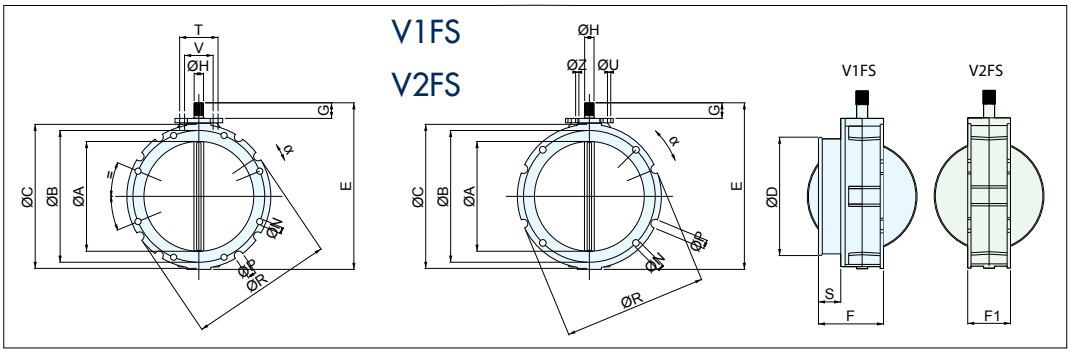
V2FF



TYPE C	Ø a	Ø A	Ø B	Ø C	Ø D	Ø E	F	Ø G	Ø H DIN 5482	Ø N DRILLINGS	Nr of DRILLINGS	P	Q	R	α	T	U	V	kg
V2FF250F14N	255	275	375	400	322	328	100	300	22 x 19	13.5	8	50	50	6	45°	202	M 12	50	16
V2FF300F19N	310	325	400	450	370	378	100	350	22 x 19	13.5	8	50	50	6	45°	210	M 12	50	19
V2FF300F35N	290	315	350	378	370	450	100	50	22 x 19	13.5	8	50	50	6	45°	239	M 12	50	10

V1FS

V2FS



TYPE	Ø A	Ø B	Ø C	Ø D	E	F	F1	G	Ø H DIN 5482	N Drilling	P External grooves	Ø R	α	S	T	U	V	Z	kg
V1FS 100.	95	180	220	105	250	115	77	35	22x19	4 x Ø14	4 x Ø20	220	22°30′	40	80	M12	50	M10	4
V1FS 150.	150	200	228	163	290	115	77	35	22x19	4 x Ø14	4 x Ø20	228	22°30′	40	80	M12	50	M10	5
V1FS 200.	200	250	278	213	340	115	77	35	22x19	4 x Ø14	4 x Ø20	278	22°30′	40	80	M12	50	M10	6.5
V1FS 250.	250	300	328	263	390	115	77	35	22x19	8 x Ø14	8 x Ø20	325	11°15′	40	80	M12	50	M10	7.5
V1FS 300.	300	350	378	313	440	115	77	35	22x19	8 x Ø14	16 x Ø20	375	5°41′	40	80	M12	50	M10	9
V1FS 350.	350	400	440	363	530	123	85	50	28x25	8 x Ø14	8 x Ø20	440	10°	40	80	M12	-	-	16
V1FS 400.	400	470	530	413	580	123	85	50	28x25	8 x Ø14	16 x Ø20	530	4°30′	40	80	M12	-	-	20.5

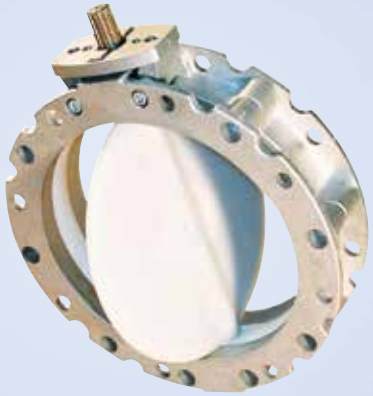
Dimensions in mm

This datasheet does not show the complete range but only the models most suitable for the application.

FLOW INTERCEPTION

Butterfly Valves

VFS



CERTIFIED

EC 1935/2004-certified

WAMGROUP®

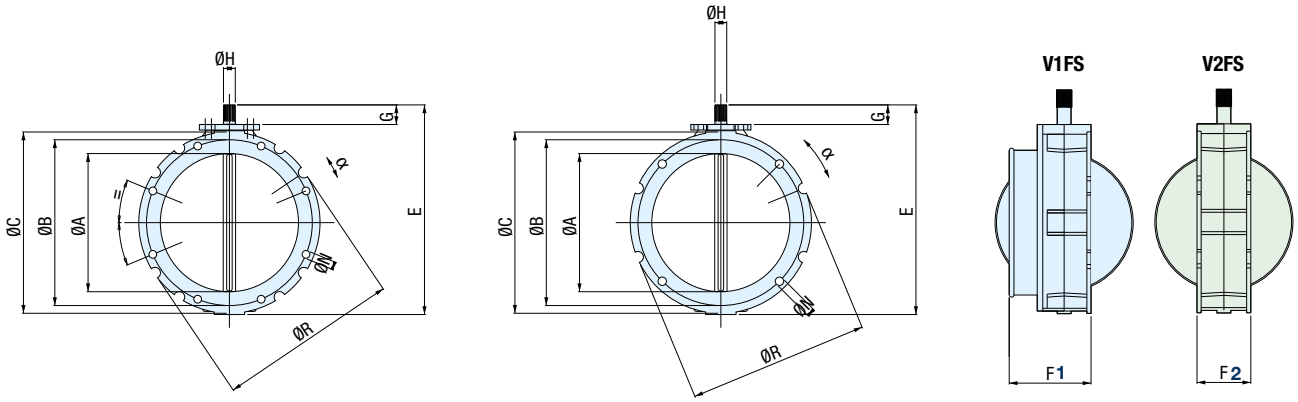
WAM® VALVES

MILLIONS OF UNITS OPERATING WORLDWIDE

VFS Butterfly Valves are among the most frequently used shut-off devices worldwide for closing bulk material silos, hoppers or containers and for interrupting the flow in both mechanical and pneumatic conveying of powdery or granular materials.

Due to their special design and engineering materials used, they represent a particularly cost-effective yet most efficient solution. For the food industry, a version with stainless-steel disc and an FDA and EC 1935/2004-compliant integral seal is available

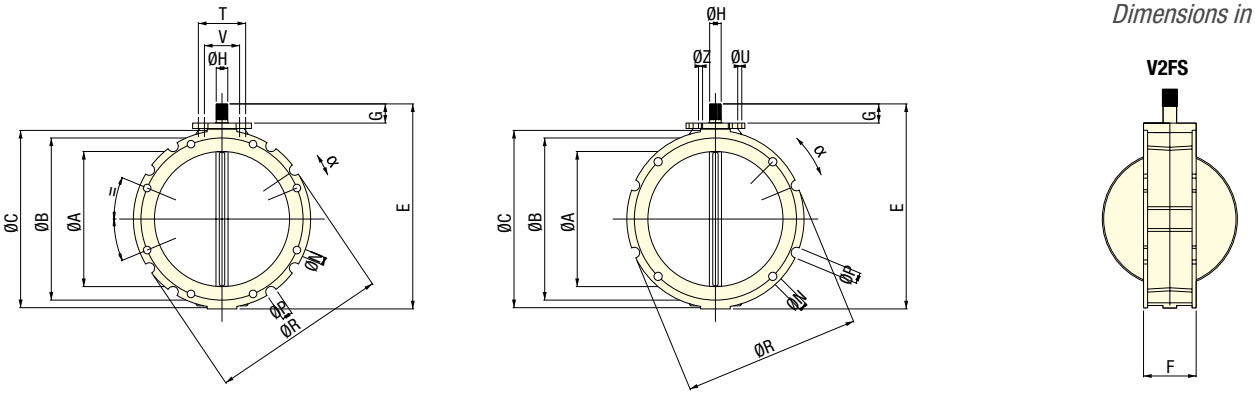
Overall Dimensions



SINGLE / DOUBLE-FLANGE BUTTERFLY VALVES

TYPE	Ø A	Ø B	Ø C	Ø D	E	F1	F2	G	Ø H DIN 5482	N Drillings	P External indents	Ø R	α	S	T	U	V	Z	kg
V1FS 100.	95	180	220	105	250	117	77	35	22 X 19	4 X Ø 14	4 X Ø 20	220	22°30´	40	80	M12	50	M10	4.0
V1FS 150.	150	200	228	163	290	117	77	35	22 X 19	4 X Ø 14	4 X Ø 20	228	22°30´	40	80	M12	50	M10	5.0
V1FS 200.	200	250	278	213	340	117	77	35	22 X 19	4 X Ø 14	4 X Ø 20	278	22°30´	40	80	M12	50	M10	6.5
V1FS 250.	250	300	328	263	390	117	77	35	22 X 19	8 X Ø 14	8 X Ø 20	325	11°15´	40	80	M12	50	M10	7.5
V1FS 300.	300	350	378	313	440	117	77	35	22 X 49	8 X Ø 14	16 X Ø 20	375	5°41´	40	80	M12	50	M10	9.0
V1FS 350.	350	400	440	363	530	125	85	50	28 X 25	8 X Ø 14	8 X Ø 20	440	10°	40	80	M12	-	-	16.0
V1FS 400.	400	470	530	413	580	125	85	50	28 X 25	8 X Ø 14	16 X Ø 20	530	4°30´	40	80	M12	-	-	20.5

Dimensions in mm



FOOD-GRADE BUTTERFLY VALVES

TYPE	Ø A	Ø B	Ø C	E	F	G	Ø H DIN 5482	N Drillings	P External indents	Ø R	α	T	U	V	Z	kg
V2FS 100.	90	180	220	250	84	35	22 X 19	4 X Ø 14	4 X Ø 20	220	22°30´	80	M12	50	M10	4.0
V2FS 150.	145	200	228	290	84	35	22 X 19	4 X Ø 14	4 X Ø 20	228	22°30´	80	M12	50	M10	5.0
V2FS 200.	195	250	278	340	84	35	22 X 19	4 X Ø 14	4 X Ø 20	278	22°30´	80	M12	50	M10	6.5
V2FS 250.	245	300	328	390	84	35	22 X 19	8 X Ø 14	8 X Ø 20	325	11°15´	80	M12	50	M10	7.5
V2FS 300.	295	350	378	440	84	35	22 X 49	8 X Ø 14	16 X Ø 20	375	5°41´	80	M12	50	M10	9.0

Dimensions in mm

Benefits

Highly abrasion-resistant due to specific component design

Interchangeable discs

Delivery from stock of WAMGROUP® subsidiaries worldwide

Time-saving maintenance

Easy to fit

Optimum price-performance ratio

Technical support and worldwide availability of spare parts thanks to the WAMGROUP® subsidiary network

Technical Features

- V1FS with top flange and beaded bottom section suitable for fixing of flexible sleeve
- V2FS with identical top and bottom flange
- Dust-tight and pressure-proof up to 0.2 bar (2.9 PSI)
- High-pressure aluminium alloy die-cast semi-bodies
- Disc in cast iron, SINT® engineering polymer, or stainless steel
- Gaskets for both standard and food-grade applications
- Few components
- Lightweight and easy to handle

Application

ACTUATOR COMPATIBILITY

For further details refer to Technical Catalogue

Manual Lever Actuator
CM

Pneumatic Rotary Actuator
CPU

Gear Motor Actuator
AE

WAMGROUP®

WAM® TOREX® MAP® EXTRAC® RONCUZZI® FLITECH® TECNO CM

SILOFAB™ MVM OWC SEPCOM SPECO® SAVI SAVECO® Member of WAMGROUP®

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WAM® VALVES

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