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Model BFV-300/BFV-300C Butterfly Valve Wafer Style

General Description

The TYCO Models BFV-300 and BFV-300C Wafer Style Butterfly Valves are indicating type valves designed for use in fire protection systems where a visual indication of open or closed valve condition is required. They are used, for example, as system, sectional and pump water control valves, and are suitable for installation between ANSI Class 125/150 flanges as well as PN10/16 flanges without the need for flange gaskets.

For applications requiring supervision of the open or closed state of the valve, the Gear Operators for the Model BFV-300/BFV-300C Butterfly Valves feature two sets of factory installed internal switches each having SPDT contacts (Ref. Figure 3). The supervisory switches transfer their electrical contacts when there is movement from the open or closed disc position during the first two revolutions of the handwheel.

NOTICE

The Model BFV-300/BFV-300C Wafer Style Butterfly Valves described herein must be installed and maintained in compliance with this document, as well as with the applicable standards of the National Fire Protection Association, in addition to the standards of any other authorities having jurisdiction. Failure to do so may impair the performance of these devices.

The owner is responsible for maintaining their fire protection system and devices in proper operating condition. Contact the installing contractor or product manufacturer with any questions.

Technical Data

Approvals

UL Listed FM Approved CE Certified VdS Approved Russian Fire Certificate CNPP R1 Listed-APSAD Listed by California State Fire Marshall

Refer to Tables A and B for applicability.

All laboratory listings and approvals are for indoor and outdoor use.

Sizes

2-12 Inch (DN50-DN300)

UL/FM Maximum Working Pressure 2-8 Inch (DN50-DN200) 300 psi (20,7 bar) 10-12 Inch (DN250-DN300) . . 175 psi (12,1 bar)

VdS Maximum Working Pressure

Maximum Working Temperature

212°F (100°C) in accordance with UL 1091

Materials of Construction

Body Ductile Iron Body Coating PlLSAN PA11 Black Disc Ductile Iron Disc Seal EPDM Encapsulated Upper & Lower Stem Stainless Steel Handwheel Ductile Iron (BFV-300 red painted; BFV-300C black painted) Actuator, 2–6 Inch (DN50–DN150):

• IP 65, bronze traveling nut gearbox, ductile iron housing

Actuator, 8–12 Inch (DN200–DN300):
IP 65, brass segmented gearbox, ductile iron housing

100% Silicone Free

Model BFV-300 Butterfly Valves are produced and assembled using no silicone lubricants in any form (like grease or aerosol spray) and are suitable for paint or oxygen applications.

Control Valve Seat Leakage Class IEC 60534-4

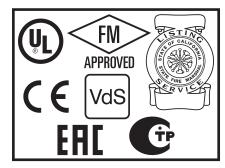
CLASS VI (Type C) Control Valve Seat Leakage according to ANSI/FCI 70-2-2006 (ASME B16.104)



MODEL BFV-300 WITH OPEN SUPERVISORY SWITCHES

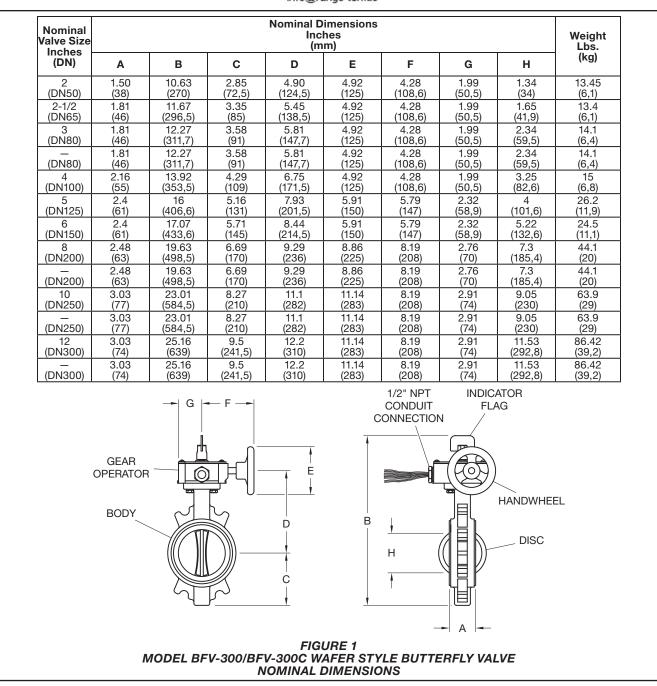


MODEL BFV-300C WITH CLOSED SUPERVISORY SWITCHES



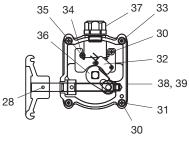


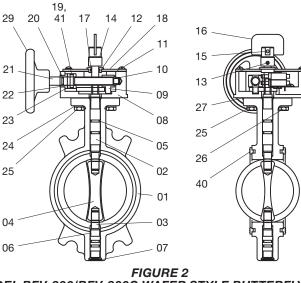






No.	Part	Material	Qty.	No.	Part	Material	Qty.	No.	Part	Material	Qty.
01	Body	ASTM A-536	1	14	Stem Housing	Fe	1	28	Spring Pin Ø4x0.8tx25	ASTM A-228	1
02	Upper Stem	AISI 410	1	15	Spring Pin	ASTM A-228	1	29	Handwheel	ASTM A-536	1
03	Lower Stem	AISI 410	1	16	Indicator	ASTM A-619	1	30	Bolt (Round)	ASTM A-167	3
04	Disc	EPDM	1	17	O-Ring	NBR	1	31	Plate Washer	ASTM A-167	4
05	O-Ring (P12)	EPDM	4	18	Cover Gasket	Paper	1	32	Switch Assembly	-	1
06	Oiless B/R (MB1410)	_	4	19	Spring Pin Ø5 x 1T x 25	ASTM A-228	1	33	T/R Bolt	ASTM A-307	2
07	End Cap 2-1/2-4 Inch	EPDM	1	20	O-Ring (P10)	EPDM	1	34	Tapping Screw ST3.5 x 7.5	S10C	1
08	Gear Box	ASTM A-536	1	21	Worm Shaft	AISI 410	1	35	Tooth Washer 4#	S10C	1
09	Traveling Nut 2-6 Inch	Bronze	1	22	Bushing (1)	FD-0205-45	1	36	Lever	ASTM A-619	1
09	Segment Gear 8 – 12 Inch	C3604BD	1	23	Collar	FD-0205-45	1	37	Connector	_	1
10	Bushing (2)	FD-0205-45	1	24	Spring Washer	ASTM A-167	4	38	Sticker	-	1
11	Cover	ASTM A-619	1	25	Hex Bolt M8 x 20L	ASTM A-167	2	39	Sticker	_	1
12	Bushing	Fe	1	26	Hex Bolt M8 x 25L	ASTM A-167	2	40	Gasket	EPDM	2
13	Headless Wrench Bolt M5 x 7L	ASTM A-307	1	27	Gasket	Paper	1	41	Spring Pin Ø3x0.6Tx25	ASTM A-228	1

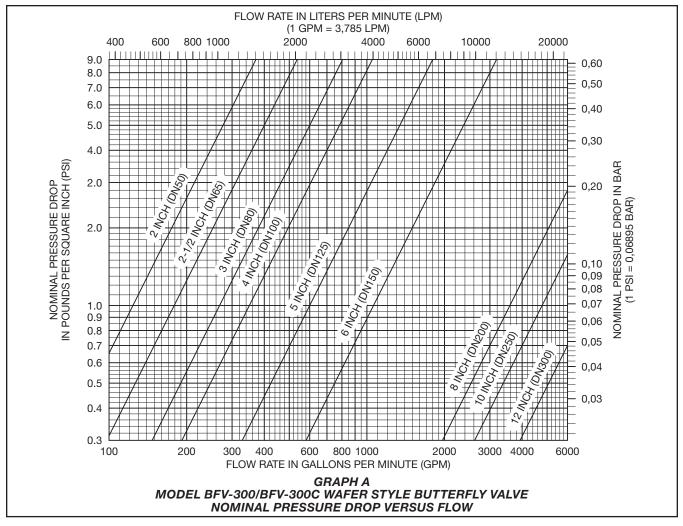


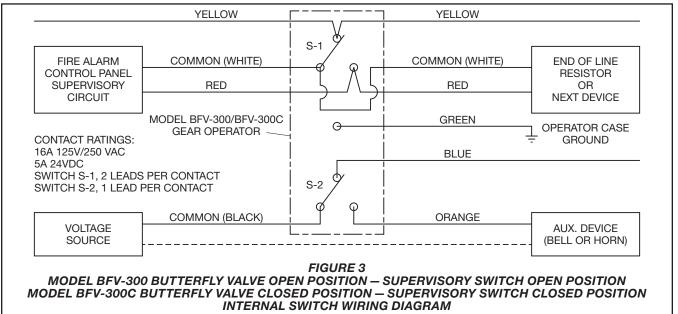


MODEL BFV-300/BFV-300C WAFER STYLE BUTTERFLY VALVE ASSEMBLY











Max		Part N	umber				Agen	cy Listing	g/Appr	oval	
PSI (bar)	Flange Face	BFV-300 with Internal Switch	BFV-300 without Internal Switch	CE	UL	FM	VdS	CA Fire Marshall	CNPP	PAVUS	Russian Fire Cert.
300 (20,7)	ANSI 16.5, BS PN16	59300W020WS	59300W020NS	\checkmark			\checkmark			\checkmark	\checkmark
300 (20,7)	ANSI 16.5, BS PN16	59300W025WS	59300W025NS	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark
300 (20,7)	ANSI 16.5	59300W030WS	59300W030NS	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark
300 (20,7)	BS PN16	59300W036WS	59300W036NS	\checkmark	\checkmark	\checkmark	\checkmark			√	\checkmark
300 (20,7)	ANSI 16.5, BS PN16, AS 2129 Table E	59300W040WS	59300W040NS	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		√	\checkmark
300 (20,7)	ANSI 16.5, BS PN16	59300W050WS	59300W050NS	\checkmark		\checkmark	\checkmark	\checkmark		√	\checkmark
300 (20,7)	ANSI 16.5, BS PN16, AS 2129 Table E	59300W060WS	59300W060NS	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		~	\checkmark
300 (20,7)	ANSI 16.5	59300W080WS	59300W080NS	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark
300 (20,7)	BS PN16	59300W086WS	59300W086NS	\checkmark	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark
175 (12,1)	ANSI 16.5	59300W100WS	59300W100NS	\checkmark	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark
175 (12,1)	BS PN16	59300W106WS	59300W106NS	\checkmark	\checkmark	\checkmark	\checkmark			~	\checkmark
175 (12,1)	ANSI 16.5	59300W120WS	59300W120NS	\checkmark			\checkmark			\checkmark	\checkmark
175 (12,1)	BS PN16	59300W126WS	59300W126NS	\checkmark			\checkmark			\checkmark	\checkmark
	(bar) 300 (20,7) 175 (12,1) 175 (12,1) 175 (12,1) 175	PSI (bar) Flange Face 300 (20,7) ANSI 16.5, BS PN16 300 (20,7) ANSI 16.5, BS PN16 300 (20,7) ANSI 16.5, BS PN16 300 (20,7) BS PN16 300 (20,7) ANSI 16.5, BS PN16, (20,7) 300 (20,7) ANSI 16.5, BS PN16, AS 2129 Table E 300 (20,7) BS PN16 175 (12,1) ANSI 16.5 175 (12,1) BS PN16 175 (12,1) ANSI 16.5 175 (12,1) ANSI 16.5	Max. PSI (bar) Flange Face BFV-300 with Internal Switch 300 (20,7) ANSI 16.5, BS PN16 59300W020WS 300 (20,7) ANSI 16.5, BS PN16 59300W025WS 300 (20,7) ANSI 16.5, BS PN16 59300W030WS 300 (20,7) ANSI 16.5, BS PN16 59300W030WS 300 (20,7) BS PN16 59300W030WS 300 (20,7) ANSI 16.5, BS PN16, AS 2129 Table E 59300W040WS 300 (20,7) ANSI 16.5, BS PN16, AS 2129 Table E 59300W050WS 300 (20,7) ANSI 16.5, BS PN16, AS 2129 Table E 59300W060WS 300 (20,7) ANSI 16.5, BS PN16, AS 2129 Table E 59300W060WS 300 (20,7) BS PN16 59300W080WS 300 (20,7) BS PN16 59300W080WS 300 (20,7) BS PN16 59300W080WS 300 (20,7) BS PN16 59300W100WS 175 (12,1) BS PN16 59300W106WS 175 (12,1) ANSI 16.5 59300W106WS 175 (12,1) ANSI 16.5 59300W106WS 175 (12,1) ANSI 16.5 59300W106WS	PSI (bar) Flange Face BFV-300 with Internal Switch BFV-300 without Internal Switch 300 (20,7) ANSI 16.5, BS PN16 59300W020WS 59300W020NS 300 (20,7) ANSI 16.5, BS PN16 59300W025WS 59300W025NS 300 (20,7) ANSI 16.5, BS PN16 59300W030WS 59300W030NS 300 (20,7) ANSI 16.5, BS PN16 59300W030WS 59300W030NS 300 (20,7) BS PN16 59300W030WS 59300W030NS 300 (20,7) ANSI 16.5, BS PN16, AS 2129 Table E 59300W040WS 59300W040NS 300 (20,7) ANSI 16.5, BS PN16, AS 2129 Table E 59300W050WS 59300W050NS 300 (20,7) ANSI 16.5, BS PN16, AS 2129 Table E 59300W060WS 59300W060NS 300 (20,7) ANSI 16.5 59300W080WS 59300W080NS 300 (20,7) ANSI 16.5 59300W080WS 59300W080NS 300 (20,7) BS PN16 59300W080WS 59300W100NS 300 (20,7) BS PN16 59300W100WS 59300W100NS 175 (12,1) ANSI 16.5 59300W100WS 59300W100NS 175 (12,1) A	Max. 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PSI (bar) Flange Face BFV-300 with Internal Switch BFV-300 without Internal Switch CE UL FM 300 (20,7) ANSI 16.5, BS PN16 59300W020WS 59300W020NS \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16 59300W025WS 59300W025NS \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16 59300W030WS 59300W030NS \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16 59300W036WS 59300W036NS \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16, (20,7) 59300W036WS 59300W040NS \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16, (20,7) 59300W050WS 59300W060NS \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16, (20,7) 59300W080WS 59300W080NS \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5 59300W080WS 59300W080NS \checkmark \checkmark \checkmark 300 (20,7) BS PN16 59300W080WS 59300W080NS \checkmark	Max. PSI (bar) Flange Face BFV-300 with Internal Switch BFV-300 without Internal Switch CE UL FM VdS 300 (20,7) ANSI 16.5, BS PN16 59300W020WS 59300W020NS \checkmark \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16 59300W025WS 59300W025NS \checkmark	Max. PSI (bar) Flange Face BFV-300 with Internal Switch BFV-300 without Internal Switch CE UL FM Vds CA Fire Marshall 300 (20,7) ANSI 16.5, BS PN16 59300W020WS 59300W025NS \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16 59300W025WS 59300W025NS \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16 59300W036WS 59300W030NS \checkmark \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16 59300W036WS 59300W036NS \checkmark \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16, AS 2129 Table E 59300W040WS 59300W040NS \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16, S2129 Table E 59300W050WS 59300W060NS \checkmark \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5 59300W060WS 59300W060NS \checkmark \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5 59300W080WS 59300W080NS \checkmark \checkmark \checkmark \checkmark	Max. PSI (bar) Flange Face BFV-300 with Internal Switch BFV-300 without Internal Switch CE UL FM VdS CA Fire Marshall CNPP 300 (20,7) ANSI 16.5, BS PN16 59300W020WS 59300W020NS \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16 59300W025WS 59300W025NS \checkmark \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16 59300W030WS 59300W030NS \checkmark \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16 59300W036WS 59300W036NS \checkmark \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16, (20,7) 59300W040WS 59300W040NS \checkmark \checkmark \checkmark \checkmark 300 (20,7) ANSI 16.5, BS PN16, (20,7) 59300W060WS 59300W060NS \checkmark <td>Max. PSI (bar) Flange Face BFV-300 with Internal Switch BFV-300 without Internal Switch CE UL FM VdS CA Fire Marshall CNPP PAVUS 300 (20,7) ANSI 16.5, BS PN16 59300W020WS 59300W020NS \checkmark \checkmark</td>	Max. PSI (bar) Flange Face BFV-300 with Internal Switch BFV-300 without Internal Switch CE UL FM VdS CA Fire Marshall CNPP PAVUS 300 (20,7) ANSI 16.5, BS PN16 59300W020WS 59300W020NS \checkmark

TABLE A MODEL BFV-300 WAFER STYLE BUTTERFLY VALVE WITH OR WITHOUT INTERNAL SUPERVISORY SWITCHES PART NUMBER SELECTION AND AGENCY LISTINGS/APPROVALS

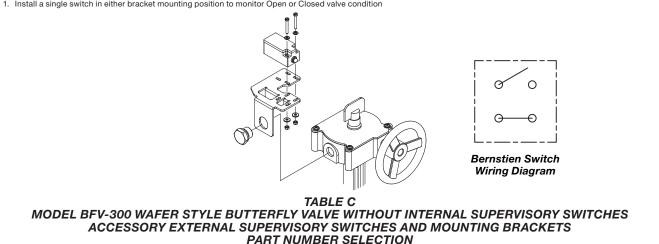
Nominal Maria		Part Number			Agency Listing/Approval							
Valve Size Inches (DN)	Max. PSI (bar)	Flange Face	BFV-300 Supv. Switch OPEN	BFV-300C Supv. Switch CLOSED	CE	UL	FM	VdS	CA Fire Marshall	CNPP	PAVUS	Russian Fire Cert.
2 (DN50)	300 (20,7)	ANSI 16.5, BS PN16	59300W020AWS	59300W020AWSC	\checkmark			\checkmark			\checkmark	\checkmark
2-1/2 (DN65)	300 (20,7)	ANSI 16.5, BS PN16	59300W025AWS	59300W025AWSC	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
3 (DN80)	300 (20,7)	ANSI 16.5	59300W030AWS	59300W030AWSC	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	~	√	\checkmark
 DN80	300 (20,7)	BS PN16	59300W036AWS	59300W036AWSC	\checkmark	\checkmark	\checkmark	\checkmark		~	√	\checkmark
4 (DN100)	300 (20,7)	ANSI 16.5, BS PN16, AS 2129 Table E	59300W040AWS	59300W040AWSC	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	~	~	\checkmark
5 (DN125)	300 (20,7)	ANSI 16.5, BS PN16	59300W050AWS	59300W050AWSC	\checkmark		\checkmark	\checkmark	\checkmark	✓	√	\checkmark
6 (DN150)	300 (20,7)	ANSI 16.5, BS PN16, AS 2129 Table E	59300W060AWS	59300W060AWSC	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	✓	√	\checkmark
8 (DN200)	300 (20,7)	ANSI 16.5	59300W080AWS	59300W080AWSC	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	~	√	\checkmark
 DN200	300 (20,7)	BS PN16	59300W086AWS	59300W086AWSC	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
10 (DN250)	175 (12,1)	ANSI 16.5	59300W100AWS	59300W100AWSC	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
 (DN250)	175 (12,1)	BS PN16	59300W106AWS	59300W106AWSC	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
12 (DN300)	175 (12,1)	ANSI 16.5	59300W120AWS	59300W120AWSC	\checkmark			\checkmark			\checkmark	\checkmark
 (DN300)	175 (12,1)	BS PN16	59300W126AWS	59300W126AWSC	\checkmark			\checkmark			\checkmark	\checkmark
	TABLE B MODEL BFV-300/BFV-300C WAFER STYLE BUTTERFLY VALVE											

MODEL BFV-300/BFV-300C WAFER STYLE BUTTERFLY VALVE WITH CNPP-APSAD LARGE 100 X 100 MM FLAG AND INTERNAL SUPERVISORY SWITCHES PART NUMBER SELECTION AND AGENCY LISTINGS/APPROVALS



		Part N	Part Number				
Gear Operator Type	Mounting Bracket with Mounting Bolts	Bernstein i88-IP65 Regular Switch	Bernstein i88-IP65 LED Switch 24V	Bernstein GC-SU1Z Ex IP-66/67 ATEX (Ex II2G Ex dIIC T6 Gb Switch			
Travelling	59300SPBRACKET10	500000000					
Nut	59300SPBRACKET20			59300SPSWATEX			
Seamented	59300SPBRACKET25	59300SP3W	593005P5WLED	593005PSWATEX			
Gear	59300SPBRACKET30						
	Operator Type Travelling Nut Segmented	Operator Type Mounting Bracket with Mounting Bolts Travelling Nut 59300SPBRACKET10 59300SPBRACKET20 59300SPBRACKET20 Segmented Gear 59300SPBRACKET20	Gear Operator TypeMounting Bracket with Mounting BoltsBernstein i88-IP65 Regular SwitchTravelling Nut59300SPBRACKET10 59300SPBRACKET2059300SPBRACKET20Segmented Gear59300SPBRACKET2059300SPSW	Gear Operator TypeMounting Bracket with Mounting BoltsBernstein i88-IP65 Regular SwitchBernstein i88-IP65 LED Switch 24VTravelling Nut59300SPBRACKET10 59300SPBRACKET2059300SPBRACKET2059300SPBRACKET20Segmented Gear59300SPBRACKET2059300SPBRACKET20			

1. Install a single switch in either bracket mounting position to monitor Open or Closed valve condition



Installation

The TYCO Model BFV-300 Wafer Style Butterfly Valves may be installed with flow in either direction and can be positioned either horizontally or vertically. They are designed for installation between the faces of ANSI Class 125 and 150 flanges as well as PN10/16 flanges without the need for flange gaskets. The Series BFV-300 are selfsealing between mating flanges; therefore, they do not require the use of additional gaskets.

The Model BFV-300 may be installed with any pressure class or schedule of pipe or tubing no greater than schedule 40 that is listed or approved for fire protection service and installed in accordance with the manufacturers instructions.

The wafer bodies have locating lugs to ensure proper centering of the valve body when flange bolts are installed. Refer to Figure 2 for bolt diameter. Bolts

and studs must meet the minimum strenath requirements of ASTM A307 (Grade B), and the nuts must meet the minimum strength requirements of ASTM A563 (Grade A).

Prior to installation, close the valve. Spread the flanges apart to allow the valve to slip easily between the flanges. Make sure the pipe flange faces are clean of any foreign material such as scale, metal shavings, or welding slag. Insert the valve between the flanges (without flange gaskets). Do not apply lubricant to the seat faces as this may damage the seat material. Be sure to center the valve and do not damage the liner. Relax the separation of the flanges, install, and hand-tighten all flange bolts. Slowly open the valve, checking for free movement of the disc. If valve opens freely, leave the valve in the open position, and using a crossdraw sequence, tighten all flange bolts until the valve is metal-to-metal with both mating flanges. Recommended tightening torques are listed in Table E.

Be certain to keep flange faces as parallel as possible during and after tightening bolts or studs. After final tightening, again check the valve for full opening and closing.

As applicable, refer to Figure 3 for the internal switch wiring diagram.

Conduit and electrical connections are to be made in accordance with the authority having jurisdiction and/ or the National Electrical Code. With reference to Figure 3, the supervisory switch is intended for connection to the supervisory circuit of a fire alarm control panel in accordance with NFPA 72. The auxiliary switch is intended for the unsupervised connection to auxiliary equipment in accordance with NFPA 70, National Electric Code.

NOTE: For outdoor applications with internal supervisory switches, it is recommended that wiring connections be made at a temperature above 15°F (-9°C), in order to insure sufficient flexibility of the wire lead insulation.



info@runge-tsn.de

Nominal Valve Size	Part Number					
Inches (DN)	BFV-300, Red Painted	BFV-300C, Black Painted				
2-4 (DN50-DN100)	59300SPHWHEEL10	59300SPHWHEEL10B				
5-8 (DN125-DN200)	59300SPHWHEEL20	59300SPHWHEEL20B				
10-12 (DN250-DN300)	59300SPHWHEEL30	59300SPHWHEEL30B				

TABLE D BFV-300/BFV-300C WAFER STYLE BUTTERFLY VALVE REPLACEMENT HANDWHEEL PART NUMBER SELECTION

Care and Maintenance

The TYCO Model BFV-300 Wafer Style Butterfly Valves must be maintained and serviced in accordance with this section.

Before closing a fire protection system control valve for maintenance or inspection work on either the valve or fire protection system which it controls, permission to shut down the affected fire protection systems must be obtained from the proper authorities and all personnel who may be affected by this decision must be notified.

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in accordance with the applicable standards of the National Fire Protection Association (e.g., NFPA 25), in addition to the standards of any authority having jurisdiction. Contact the installing contractor or product manufacturer with any questions. Any impairment must be immediately corrected.

It is recommended that automatic sprinkler systems be inspected, tested, and maintained by a qualified Inspection Service.

Limited Warranty

For warranty terms and conditions, visit www.tyco-fire.com.

Ordering Procedure

Contact your local distributor for availability. When placing an order, indicate the full product name and Part Number (P/N).

Butterfly Valves

Model BFV-300 with Internal Open Supervisory Switches Specify: (specify size) Model BFV-300 Wafer Style Butterfly Valve, Internal Open Supervisory Switches, P/N (specify per Table A)

Model BFV-300 without Supervisory Switches Specify: (specify size) Model BFV-300 Wafer Style Butterfly Valve, P/N (specify per Table A)

Model BFV-300 with Internal Open Supervisory Switches, APSAD Approved

Specify: (specify size) Model BFV-300 Wafer Style Butterfly Valve, Internal Open Supervisory Switches, APSAD Approved, P/N (specify per Table B)

Model BFV-300C with Internal Closed Supervisory Switches, APSAD Approved

Specify: (specify size) Model BFV-300 Wafer Style Butterfly Valve, Internal Closed Supervisory Switches, APSAD Approved, P/N (specify per Table B)

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Nominal	Recommended					
Flange Size	Minimum Torque					
ANSI Inches	FtLbs					
(DN)	(Nm)					
2-4	20-30					
(DN50-DN100)	(27,1-40,7)					
5-8	33–50					
(DN125-DN200)	(44,7–67,8)					
10-12	53-75					
(DN250-DN300)	(71,8-101,7)					
TABLE E RECOMMENDED MATING FLANGE BOLT TORQUES						

Accessories

External Supervisory Switch and Mounting Bracket

Note: Accessory external supervisory switches and mounting brackets are applicable only to valves without factory-installed internal supervisory switches.

Refer to Table C for switch models and part numbers.

Specify: (specify size) Model BFV-300 Wafer Style Butterfly Valve External Switch Mounting Bracket, P/N (specify), with (specify quantity) Bernstein External Switch (specify model), P/N (specify)

Replacement Parts

Note: Only items described in this section are offered as replacement parts.

Handwheel

Replacement handwheel includes pin. Refer to Table D for part numbers.

Model BFV-300, Red Painted

Specify: Handwheel, (specify size) Model BFV-300 Wafer Style Butterfly Valve, P/N (specify)

Model BFV-300C, Black Painted

Specify: Handwheel, (specify size) Model BFV-300C Wafer Style Butterfly Valve, P/N (specify)