



Worldwide Contacts

www.tyco-fire.com

Model BFV-300/BFV-300C Butterfly Valve Grooved End

IMPORTANT

Refer to Technical Data Sheet TFP2300 for warnings pertaining to regulatory and health information.

Scan the QR code or enter the URL in a web browser to access the most up-to-date electronic version of this document. Data rates may apply.



docs.jci.com/tycofire/tfp1511

General Description

The TYCO Models BFV-300 and BFV-300C Grooved End 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. They have grooved inlet and outlet connections that are suitable for use with grooved end pipe couplings listed or approved for fire protection systems.

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 single-pole double-throw (SPDT) contacts as shown in 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.

Note: If the butterfly valve is required in a foam system, verify the valve is compatible by referring to the foam concentrate manufacturer technical literature for information about foam compatibility, and acceptable system equipment materials of construction.

NOTICE

The Model BFV-300/BFV-300C Grooved End 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 and ULC Listed
FM Approved
CE Certified
VdS Approved
EAC Approved
CNPP Certified 63.22.221
Listed by California State Fire Marshall

Note: For specific information about approvals, see Tables A, B, and C.

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

Sizes

2 in. to 12 in. (DN50 to DN300)

UL/ULC/FM Maximum Working Pressure

2 in.-8 in. (DN50-DN200).... 300 psi (20,7 bar) 10 in.-12 in. (DN250-DN300)...175 psi (12,1 bar)

VdS Maximum Working Pressure

Maximum Working Temperature

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



MODEL BFV-300 OPEN SUPERVISORY SWITCHES



MODEL BFV-300C CLOSED SUPERVISORY SWITCHES



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NIP: 531-163-86-70 REGON: 146196990 **DECEMBER 2022**



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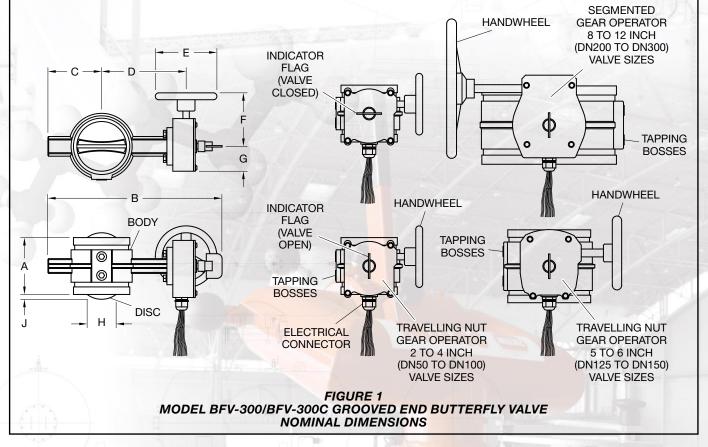






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Nominal Valve Size Inches	Pipe OD Inches		Nominal Dimensions Inches (mm)								Weight Lbs.
(DN)	(mm)	Α	В	С	D	E	F	G	Н	J	(kg)
2 (DN50)	2.37 (60,3)	3.8 (96,4)	10.63 (270)	2.85 (72,5)	4.90 (124,5)	4.92 (125)	4.28 (108,6)	1.99 (50,5)	0	0	10.8 (4,9)
2-1/2 (DN65)	2.88 (73,0)	3.8 (96,4)	11.72 (297,8)	3.35 (85)	5.5 (139,8)	4.92 (125)	4.28 (108,6)	1.99 (50,5)	0	0	13.0 (5,9)
_ (DN65)	3 76,1	3.8 (96,4)	11.72 (297,8)	3.35 (85)	5.5 (139,8)	4.92 (125)	4.28 (108,6	1.99 (50,5)	0	0	13.0 (5,9)
3 (DN80)	3.5 (88,9)	3.8 (96,4)	12.22 (310,3)	3.58 (91)	5.76 (146,3)	4.92 (125)	4.28 (108,6)	1.99 (50,5)	0	0	13.9 (6,3)
4 (DN100)	4.5 (114,3)	4.54 (115,4)	13.92 (353,5)	4.29 (109)	6.75 (171,5)	4.92 (125)	4.28 (108,6)	1.99 (50,5)	0	0	17.64 (8,0)
_ (DN125)	5.5 (139,7)	5.83 (148)	16 (406,6)	5.16 (131)	7.93 (201,5)	5.91 (150)	5.79 (147)	2.32 (58,9)	0	0	26.4 (11,9)
5 (DN125)	5.56 (141,3)	5.83 (148)	16 (406,6)	5.16 (131)	7.93 (201,5)	5.91 (150)	5.79 (147)	2.32 (58,9)	0	0	26.4 (11,9)
_ DN150	6.5 165,1	5.83 (148)	17.07 (433,6)	5.71 (145)	8.44 (214,5)	5.91 (150)	5.79 (147)	2.32 (58,9)	0	0	30,42 (13,8)
6 (DN150)	6.63 (168,3)	5.83 (148)	17.07 (433,6)	5.71 (145)	8.44 (214,5)	5.91 (150)	5.79 (147)	2.32 (58,9)	0	0	30,42 (13,8)
8 (DN200)	8.63 (219,1)	5.24 (133)	19.67 (499,5)	6.69 (170)	9.29 (236)	8.86 (225)	8.19 (208)	2.76 (70)	5.66 (143,7)	1.24 (31,4)	47.18 (21,4)
10 (DN250)	10.75 (273)	6.26 (159)	22.46 (570,5)	7.68 (195)	11.1 (282)	11.14 (283)	8.19 (208)	2.91 (74)	7.21 (183,1)	1.65 (41,8)	73.41 (33,3)
12 (DN300)	12.75 (323,9)	6.5 (165)	25.39 (645)	9.5 (241,5)	12.2 (310)	11.14 (283)	8.19 (208)	2.91 (74)	9.96 (252,9)	2.7 (68,5)	89.29 (40,5)











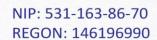






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01	Part	Material	Qty.	No.	Part	Material	Qty.	No.	Part	Ma <mark>teri</mark> al	Qty
ן יי	Body	ASTM A-536	1	15	Spring Pin	ASTM A-228	1	30	Bolt (Round)	ASTM A-167	3
02	Upper Stem	AISI 410	1	16	Indicator	ASTM A-619	1	31	Plate Washer	ASTM A-167	4
03	Lower Stem	AISI 410	1	17	O-Ring	NBR	1	32	Switch Assembly	1/2	1
04	Disc	EPDM	1	18	Cover Gasket	Paper	1	33	T/R Bolt	ASTM A-307	2
05	O-Ring (P12)	EPDM	4	19	Spring Pin Ø5 x 1T x 25	ASTM A-228	1	34	Tapping Screw ST3.5 x 7.5	S10C	1
06	Oiless B/R (MB1410)	- 1	4	20	O-Ring (P10)	EPDM	1	35	Tooth Washer 4#	S10C	1
07	End Cap 2-1/2-4 Inch	EPDM	1	21	Worm Shaft	AISI 410	1	36	Lever	ASTM A-619	1
08	Gear Box	ASTM A-536	1	22	Bushing (1)	FD-0205-45	1	37	Connector		1
	Traveling Nut 2-6 Inch	Bronze	1	23	Collar	FD-0205-45	1	38	Sticker		1
09	Segment Gear 8–12 Inch	C3604BD	1	24	Spring Washer	ASTM A-167	4	39	Sticker) = N	1
10	Bushing (2)	FD-0205-45	1/	25	Hex Bolt M8 x 20L	ASTM A-167	2	40	Spring Pin Ø3x0.6Tx25	ASTM A-228	1
11	Cover	ASTM A-619	1	26	Hex Bolt M8 x 25L	ASTM A-167	2	16	Headless Plug	A 220	
12	Bushing	Fe	1	27	Gasket	Paper	1		3/8 NPT 2–3 Inch	ASTM	h
13	Headless Wrench Bolt M5 x 7L	ASTM A-307	1	28	Spring Pin Ø4x0.8tx35	ASTM A-228	1	41	Headless Plug	A-307	2
14	Stem Housing	Fe	1	29	Handwheel	ASTM A-536	1		1/2 NPT 4–12 Inch		1
28	36	30 32 38, 3 31	39			32			34 36 38, 39 31		
28 29 21 - 22 - 23 23 23 28 29 21 - 22 - 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25		32 38, 3 31 30	16 15 13 27					14	36 38, 39 31 30 12 18 16 11 15 10 13 09 27 08		
29 21 - 22 -	20 40 17 1	32 38, 3 31 30 4 12 18 11 10 09	16 15 13 27 25 26			28 29 20 40 29 20 40 21 22 23 24 25 01 04		14	36 38, 39 31 30 12 18 16 11 15 10 13 09 27	/alve	









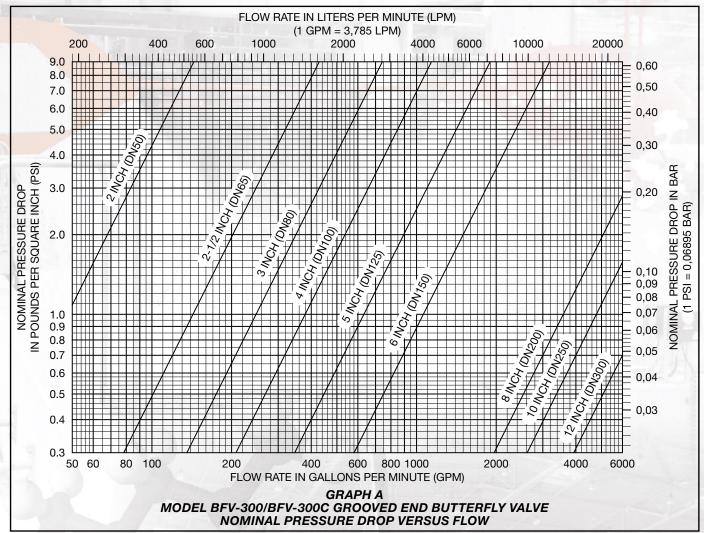


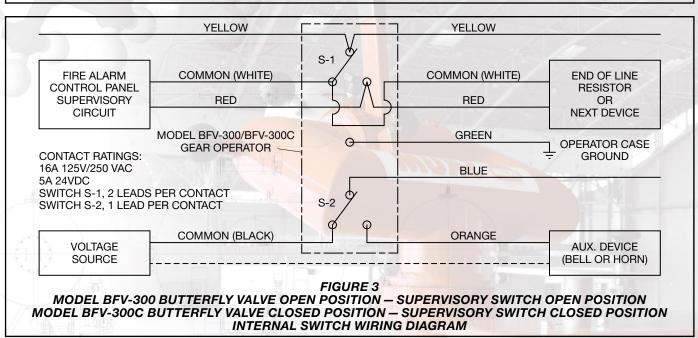






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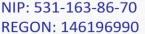




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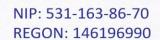
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Nominal	Dina		Part N	umber			Land International		Δαen	cv Lietino	a/Approva		
Valve Siz Inches (DN)		Max. PSI (bar)	BFV-300 Supv. Switch OPEN	BFV-300C Supv. Switch CLOSED	CE	UL	ULC			CA Fire	CNPP Certified	PAVUS	EAC Approved
2 (DN50)	2.38 (60,3)	300 (20,7)	59300G020WS	59300G020WSC	1	√	1		1			√	1
2-1/2 (DN65)	2.88 (73,0)	300 (20,7)	59300G025WS	59300G025WSC	1	✓	✓	1	1	✓	4/4	✓	✓
_ DN65	3 76,1	300 (20,7)	59300G026WS	59300G026WSC	1	1	1	1	✓			✓	✓
3 (DN80)	3,5 (88,9)	300 (20,7)	59300G030WS	59300G030WSC	✓	1	1	1	✓	✓	12	1	✓
4 (DN100)	4.5 (114,3)	300 (20,7)	59300G040WS	59300G040WSC	1	1	✓	✓	1	✓	100	✓	1
 DN125	5.5 (139,7)	300 (20,7)	59300G056WS	59300G056WSC	1	1	1	1	1			1	1
5 (DN125)	5.56 (141,3)	300 (20,7)	59300G050WS	59300G050WSC	1	1	1	1	1	1		1	✓
 DN150	6.5 (165,1)	300 (20,7)	59300G066WS	59300G066WSC	1	1	1	√	1	4 3		✓	✓
6 (DN150)	6.63 (168,3)	300 (20,7)	59300G060WS	59300G060WSC	1	1	1	✓	1	1		✓	✓
8 (DN200)	8.63 (219,1)	300 (20,7)	59300G080WS	59300G080WSC	1	1	1	√	1	1		1	✓
10 (DN250)	10.75 (273)	175 (12,1)	59300G100WS	59300G100WSC	✓	1	✓	1	1	1		1	√
12 (DN300)	12.75 323,9	175 (12,1)	59300G120WS	59300G120WSC	1	✓	✓		✓_	Ł.		√	1

TABLE A
MODEL BFV-300/BFV-300C GROOVED END BUTTERFLY VALVE WITH INTERNAL SUPERVISORY SWITCHES
PART NUMBER SELECTION AND AGENCY LISTINGS/APPROVALS

Nominal	Pipe		Part N	lumber	Agency	/ Listing/	Approval
Valve Size Inches (DN)		Max. PSI (bar)	BFV-300 Supv. Switch OPEN	BFV-300C Supv. Switch CLOSED	CE	VdS	CNPP Certified
2 (DN50)	2.38 (60,3)	300 (20,7)	59300G020AWS	59300G020AWSC	1	1	1
2-1/2 (DN65)	2.88 (73,0)	300 (20,7)	59300G025AWS	59300G025AWSC	/	1	1
_ DN65	3 76,1	300 (20,7)	59300G026AWS	59300G026AWSC	1	1	1
3 (DN80)	3,5 (88,9)	300 (20,7)	59300G030AWS	593 <mark>00G0</mark> 30AWSC	✓	1	1
4 (DN100)	4.5 (114,3)	300 (20,7)	59300G040AWS	59300 <mark>G0</mark> 40AWSC	1	1	1
_ DN125	5.5 (139,7)	300 (20,7)	59300G056AWS	5930 <mark>0G0</mark> 56AWSC	1	1	1
5 (DN125)	5.56 (141,3)	300 (20,7)	59300G050AWS	59300G050AWSC	✓	✓	✓
_ DN150	6.5 (165,1)	300 (20,7)	59300G066AWS	59300G066AWSC	√	1	✓
6 (DN150)	6.63 (168,3)	300 (20,7)	59300G060AWS	59300G060AWSC	✓	1	1
8 (DN200)	8.63 (219,1)	300 (20,7)	59300G080AWS	59300G080AWSC	✓	1	V
10 (DN250)	10.75 (273)	175 (12,1)	59300G100AWS	59300G100AWSC	1	✓	✓
12 (DN300)	12.75 323,9	175 (12,1)	59300G120AWS	59300G120AWSC	✓	✓	✓

TABLE B MODEL BFV-300/BFV-300C GROOVED END BUTTERFLY VALVE
WITH LARGE 100 X 100 MM FLAG AND INTERNAL SUPERVISORY SWITCHES
PART NUMBER SELECTION AND AGENCY LISTINGS/APPROVALS















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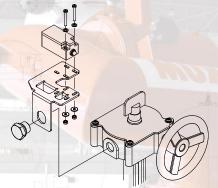
Nominal	Pipe	May						Agen	cy Listing	g/Approval		
Valve Size Inches (DN)		Max. PSI (bar)	Part Number	CE	UL	ULC	FM	VdS	CA Fire Marshall	CNPP Certified	PAVUS	EAC Approved
2 (DN50)	2.38 (60,3)	300 (20,7)	59300G020NS	1	1	1		/	1970		√	✓
2-1/2 (DN65)	2.88 (73,0)	300 (20,7)	59300G025NS	1	1	1	✓	1	✓		✓	✓
_ DN65	3 76,1	300 (20,7)	59300G026NS	1	1	✓	✓	1			✓	✓
3 (DN80)	3,5 (88,9)	300 (20,7)	59300G030NS	1	1	1	1	1	✓		1	✓
4 (DN100)	4.5 (114,3)	300 (20,7)	59300G040NS	1	1	1	✓	✓	1		✓	✓
_ DN125	5.5 (139,7)	300 (20,7)	59300G056NS	1	1	1	✓	1	相		✓	✓
5 (DN125)	5.56 (141,3)	300 (20,7)	59300G050NS	1	1	1	1	1	1		√	✓
_ DN150	6.5 (165,1)	300 (20,7)	59300G066NS	1	1	✓	1	1	_#		✓	✓
6 (DN150)	6.63 (168,3)	300 (20,7)	59300G060NS	1	1	1	✓	1	✓	(60)	1	✓
8 (DN200)	8.63 (219,1)	300 (20,7)	59300G080NS	✓	✓	1	1	1	✓		1	✓
10 (DN250)	10.75 (273)	175 (12,1)	59300G100NS	✓	√	1	✓	√	✓		1	✓
12 (DN300)	12.75 323,9	175 (12,1)	59300G120NS	1	✓	1		✓			✓	✓

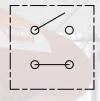
TABLE C MODEL BFV-300 GROOVED END BUTTERFLY VALVE WITHOUT INTERNAL SUPERVISORY SWITCHES PART NUMBER SELECTION AND AGENCY LISTINGS/APPROVALS

			Part Number								
Nominal Valve Size Inches (DN)	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						
2–4 (DN50–DN100)	Travelling	59300SPBRACKET10									
5-6 (DN125-DN200)	Nut	59300SPBRACKET20	FOOODDOM	FOROCODOMI ED	FOOODCDCWATEV						
8 (DN200)	Segmented	59300SPBRACKET25	59300SPSW	59300SPSWLED	59300SPSWATEX						
10-12 (DN250-DN300)	Gear	59300SPBRACKET30									

Notes:

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





Bernstein Switch Wiring Diagram

TABLE D

MODEL BFV-300 GROOVED END BUTTERFLY VALVE WITHOUT INTERNAL SUPERVISORY SWITCHES
ACCESSORY EXTERNAL SUPERVISORY SWITCHES AND MOUNTING BRACKETS
PART NUMBER SELECTION

NIP: 531-163-86-70 REGON: 146196990















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Materials of Construction

Body	Ductile Iron
Body Coating	RILSAN PA11 Black
Disc	Ductile Iron
Disc Seal	EPDM Encapsulated
Upper & Lower Stem	Stainless Steel
Handwheel	Ductile Iron
(BFV-300 red painted: BI	FV-300C black painted)

Actuator, 2 in.-6 in. (DN50-DN150):

IP65, bronze traveling nut gearbox, ductile iron housing

Actuator, 8 in.-12 in. (DN200-DN300):

IP65, brass segmented gearbox, ductile iron

Silicone Free Model Availability

Silicone free models are available. Contact TYCO sales for information.

Tapping Bosses

Two factory-plugged NPT threaded tapping bosses in the valve body are located on the up- and downstream sides of the disc for connection to valve trim. Tapping boss sizes:

2 in3 in. (DN50-DN80)	.3/8	NPT
4 in.–12 in. (DN100–DN300)	. 1/2	NPT

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)

Installation

The Model BFV-300/BFV-300C Grooved End Butterfly Valves may be installed with flow in either direction and can be positioned either horizontally or vertically.

The grooved end pipe couplings used with the Model BFV-300/BFV-300C must be listed or approved for fire protection service and installed in accordance with the manufacturers instructions.

The Model BFV-300/BFV-300C Butterfly Valve may be installed with any schedule of pressure class of pipe or tubing that is listed or approved for fire protection.

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.

Nominal Valve Size	Part Number							
Inches (DN)	BFV-300, Red Painted	BFV-300C, Black Painted						
2–4 (DN50–DN100)	59300SPHWHEEL10	59300SPHWHEEL10B						
5–6 (DN125–DN150)	59300SPHWHEEL20	59300SPHWHEEL20B						
8 (DN200)	59300SPHWHEEL30	59300SPHWHEEL30B						
10-12 (DN250-DN300)	59300SPHWHEEL40	59300SPHWHEEL40B						

TABLE E BFV-300/BFV-300C GROOVED END BUTTERFLY VALVE REPLACEMENT HANDWHEEL PART NUMBER SELECTION

Nominal Valve Size Inches (DN)	Part Number
2-4 (DN50-DN100)	59300SPFLAG10
5-6 (DN125-DN150)	59300SPFLAG20
8-12 (DN200-DN300)	59300SPFLAG30

TABLE F **BFV-300 WAFER STYLE BUTTERFLY VALVE** INDICATOR FLAG PART NUMBER SELECTION

Care and Maintenance

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 such as 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.













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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 Grooved End Butterfly Valve, Internal Open Supervisory Switches, P/N (specify per Table A)

Model BFV-300C with Internal **Closed Supervisory Switches**

Specify: (specify size) Model BFV-300C Grooved End Butterfly Valve, Internal Closed Supervisory Switches, P/N (specify per Table A)

Model BFV-300 with Internal Open Supervisory Switches, **CNPP Certified**

Specify: (specify size) Model BFV-300 Grooved End Butterfly Valve, Internal Open Supervisory Switches, CNPP Certified, P/N (specify per Table B)

Model BFV-300C with Internal **Closed Supervisory Switches, CNPP Certified**

Specify: (specify size) Model BFV-300C Grooved End Butterfly Valve, Internal Closed Supervisory Switches, CNPP Certified, P/N (specify per Table B)

Model BFV-300 without Internal **Supervisory Switches**

Specify: (specify size) Model BFV-300 Grooved End Butterfly Valve, P/N (specify per Table C)

Accessories

External Supervisory Switch and Mounting Bracket

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

See Table D for switch models and part numbers.

Specify: (specify size) Model BFV-300 Grooved End 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.

Replacement handwheel includes pin. See Table E for part numbers.

Model BFV-300, Red Painted

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

Model BFV-300C, Black Painted

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

Indicator Flag

Specify: Indicator Flag, (specify size) Model BFV-300, P/N (specify per

1467 Elmwood Avenue, Cranston, RI 02910 | Telephone +1-401-781-8220

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Fire fighting systems & equipment

NATIONAL FIRE PROTECTION ASSOCIATION and NFPA are registered traderr TEFLON is a trademark of The Chemours Company FC, LLC





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Worldwide Contacts

www.tyco-fire.com

TFP1511 Change History Appendix

ISSUE DATE	NOTES
12-22	Page 1, Approvals sub-section, added CNPP Certified, formerly shown as CNPP R1 Listed – APSAD APSAD accepted with CNPP Certified; Pages 5 and 6, Tables A, B and C, changed CNPP column headings to CNPP Certified.
09-22	Page 1, added QR code and URL to allow convenient access to electronic version from printed document; Page 1, Approvals sub-section, Page 5, Table A, Page 6, Table C, added EAC Approved; Page 8, changed corporate address and telephone number to 1467 Elmwood Avenue, Cranston, RI 02910 Telephone +1-401-781-8220, formerly 1400 Pennbrook Parkway, Lansdale, PA 19446 Telephone +1-215-362-0700.
01-21	Add reference to Tables A, B, and C in Approvals sub-section for more detail; Added replacement Indicator Flag information; Updated replacement Handwheel part numbers and valve size applicability.
07-20	Corrected spelling error in pressure scale of Graph A Friction Loss vs. Flow.
08-19	Clarified foam compatibility note in General Description section.
06-19	Added guidance on use of valve in foam fire sprinkler system, referring reader to foam concentrate manufacturer technical literature to determine compatibility.
08-18	Updated Tyco® branding and document format; Added Johnson Controls copyright; Added disclaimer stating specifications and information subject to change without notice; Added reference to Regulatory and Health Warning Technical Data Sheet TFP2300.
01-18	Added ULC Listed for all valves except CNPP-APSAD featuring 100 x 100 mm large flag.
04-17	Added note advising customers to contact Sales for availability of 100% silicone-free valves; Added gear operator details as applicable to valve size ranges; Added UL Listed for 2 in. and 12 in. (DN50 and DN300) sizes; Added CA Fire Marshall Listed for 10 in. (DN250) size; Removed UL, FM, CA Fire Marshall PAVUS and Russian Fire approvals from CNPP-APSAD models.
06-16	Expanded laboratory listings and approvals.
09-15	Updated Materials of Construction specifications.
08-15	New Technical Data Sheet TFP1511 describes Model BFV-300 and BFV-300C Grooved Butterfly Valves

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