BLLYCO®

The Right Valve Solution





BFV761-Series Pneumatic Butterfly Valve

Engineered Product Reference Guide

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BLLYCO Tech. is a sourcing and trading company. Products are manufactured by qualified factories in China.

BFV761-Series Pneumatic Butterfly Valve



This pneumatic wafer butterfly valve is an automated valve powered by compressed air. Its pneumatic actuator rotates the disc through 90 degrees to rapidly open, close, or modulate fluid flow within the pipeline.

Built around a wafer-style connection, the valve mounts directly between pipe flanges and is secured by bolts on either side of the body. This delivers a compact footprint and minimal installation space. The pneumatic actuator converts air pressure into rotational torque to turn the valve stem and position the disc precisely inside the valve body.

The disc sealing face is fully encapsulated in elastic rubber material, creating a soft seal against the valve seat via interference fit. As the valve cycles, the disc engages and disengages from the seat quickly for reliable, efficient fluid control.

Designed for fast actuation, simple operation and seamless automation integration, this valve is widely deployed in water and wastewater, fire protection, HVAC, and industrial automated process systems.

Sizes

- DN50 2"
- DN65 2-1/2"
- DN80 3"
- DN100 4"
- DN125 5"
- DN150 6"
- DN200 8"
- DN250 10"
- DN300 12"

Features

- **Pneumatic Fast Actuation:** Equipped with high-performance single or double-acting pneumatic actuators, the valve completes stroke within 0.5–3 seconds for sharp response. It withstands frequent cycling and is well suited for automated process control systems.
- **Compact Wafer Construction:** The wafer-style valve body features a short face-to-face dimension, small footprint and light weight. It conserves piping space and is ideal for densely routed pipelines or space-limited installations.
- **Premium Soft Sealing:** The disc is fully encapsulated with premium EPDM, NBR or FKM elastomer. It delivers exceptional sealing performance with zero leakage, meeting Seal Class VI and compatible with a broad range of process media.
- **Dependable Bidirectional Sealing:** The engineered geometry ensures reliable sealing under both forward and reverse differential pressure, independent of the direction of media flow.
- **Low Flow Resistance & Energy Efficiency:** When fully open, the disc aligns parallel to media flow for an unobstructed flow path. It minimizes pressure loss across the valve and reduces system energy consumption.
- **Corrosion Resistance & Extended Service Life:** Valve body options include ductile iron, carbon steel and stainless steel, available with epoxy coating for corrosion protection. The chemically resistant elastomer seals further extend service life.
- **Ready for Intelligent Automation:** It accepts standard accessories including solenoid valves, limit switches, positioners and filter regulators. The valve easily integrates with PLC, DCS and other automation platforms for remote operation and precise flow modulation.
- **Simple, Cost-Effective Maintenance:** Modular layout delivers straightforward disassembly. Primary sealing components are field-replaceable, supporting in-line service to cut maintenance expense and equipment downtime.

Specification

Model	BFV761-Series	
Valve body material	Ductile iron (ASTM A536 65-45-12 / EN-GJS-450-10)	
Actuator material	Aluminum alloy	
Valve disc material	Ductile iron (ASTM A536 65-45-12 / EN-GJS-450-10)	304 SS (CF8 / EN 1.4308)
Seal material	EPDM	NBR
Connection type	Wafer	
End connection standard	EN 1092-2 PN16, ASME B16.5 Class150	
Face-to-face standard	ISO 5752 Table5 Short (EN 558 Series 20)	
Actuator mounting flange standard	ISO 5211	
Operating pressure range	0.5 ~ 16 bar (7 ~ 232 psi)	
Applicable media	EPDM : Water, weak acid, weak alkali, gas; not for oil	
	NBR : Oil & hydrocarbon media; not for strong oxidants	
Operation fluid viscosity	Below 50 cSt	
Operating temperature	EPDM : -10 ~ 100 °C (14 ~ 212 °F)	
	NBR : -10 ~ 80 °C (14 ~ 176 °F)	
Ambient temperature	-20°C ~ 70°C (-4°F ~ 158°F)	
Actuation type	Pneumatic	
Actuator protection	IP65	
Control type	Double acting (DA)	
	Single acting (SR), air to open (ATO)	
	Single acting (SR), air to close (ATC)	
Air supply pressure for control	3 ~ 8 bar (44 ~ 116 psi)	
NAMUR solenoid valve interface (VDI/VDE 3845)	G1/4"	
Pneumatic options & accessories	Single Solenoid Valve: Power on to open/close, power off reset (air supply required)	
	Double Solenoid Valve: Dual coil, latching, hold position on power loss (air supply required)	
	Limit Switch Box: Remote valve position feedback	
	Air Filter: Air purification & pressure stabilization	
	Electro-Pneumatic Positioner: 4 ~ 20 mA / 0 ~ 5 V / 0 ~ 10 V modulating control	
	Pneumatic Positioner: 0.2 ~ 1.0 bar (2.9 ~ 14.5 psi) pneumatic modulating control	
	Manual Override: Emergency manual operation	

Flow Coefficient (Kv / Cv)

Size	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
Kv (m³/h)	116	189	230	517	881	1361	2703	4593	7111
Cv (US gpm)	135	220	302	600	1022	1579	3136	5340	8250

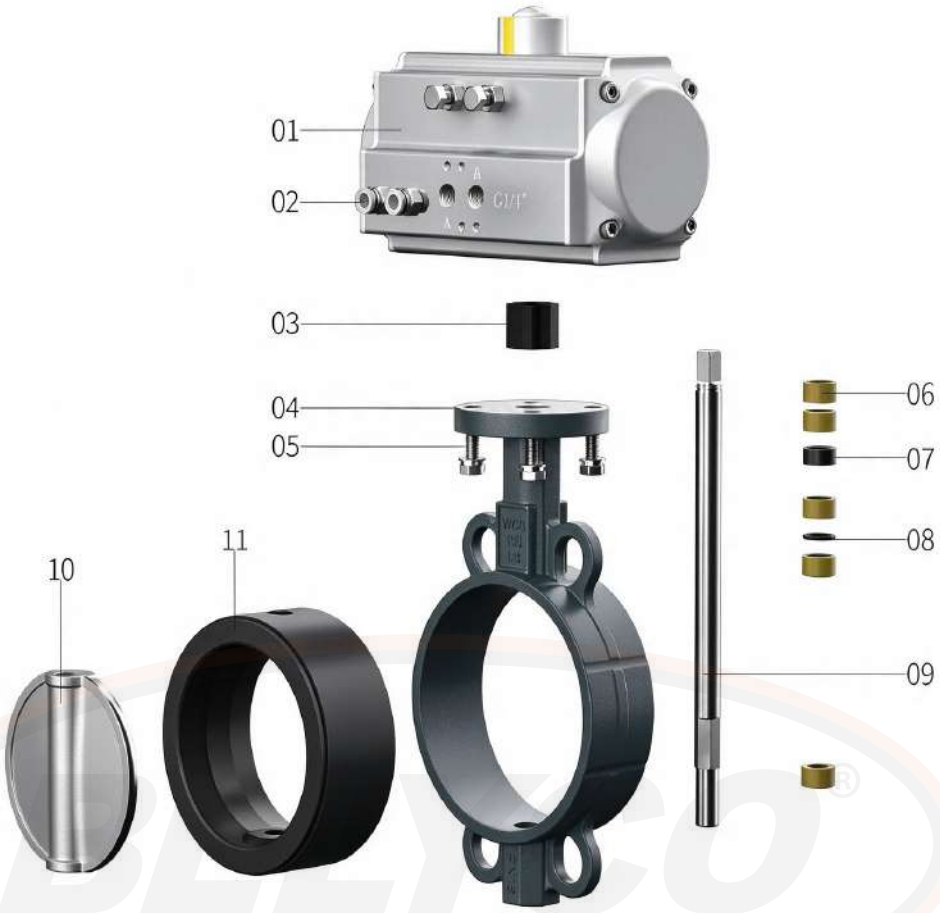
- *Kv: Metric flow coefficient (m³/h, ΔP =1 bar)*
- *Cv: US flow coefficient (US gpm, ΔP =1 psi)*
- *Cv ≈ Kv × 1.156, values rounded for reference only.*

Part Number Key

BFV761-Series Pneumatic Butterfly Valve Part Number Key Example: BFV761-80-16DDE -DA-SLA230	Series		Size		PN	Body	Disc	Seal		Control Type		Pneumatic Options	Voltage
	BFV761	-	80	-	16	D	D	E	-	DA	-	SLA	230

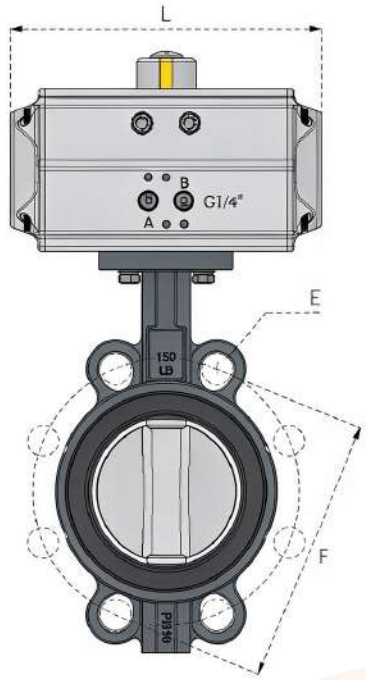
Series	Code
BFV761	BFV761
Size	**Code**
2"	50
2-1/2"	65
3"	80
4"	100
5"	125
6"	150
8"	200
10"	250
12"	300
PN	**Code**
PN16	16
Body Material	**Code**
Ductile Iron	D
Disc Material	**Code**
Ductile Iron	D
304 SS	S
Seal Material	**Code**
EPDM	E
NBR	N
Control Type	**Code**
Double Acting	DA
Air to Open	AO
Air to Close	AC
Pneumatic Options	**Code**
Single Solenoid Valve	S
Double Solenoid Valve	D
Limit Switch Box	L
Air Filter	A
Electro-Pneumatic Positioner	E
Pneumatic Positioner	P
Manual Override	M
Supply Voltage	**Code**
24V DC	24
230V AC	230

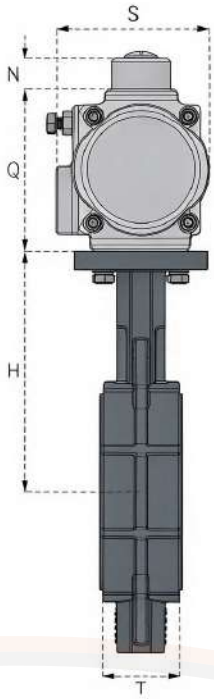
Bill of Materials

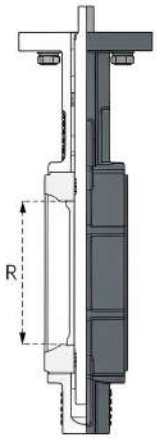


Item	Qty	Part	Material Description	US Standard	EU Standard (EN)
01	1	Pneumatic rotary actuator	Die-cast aluminum alloy		
02	2	Air supply fitting	Brass, nickel plated		
03	0/1	Octagonal drive bushing	Sintered powder metal		
04	1	Valve body	Ductile iron	ASTM A536 65-45-12	EN-GJS-450-10
05	4	Assembly screw set	304 SS	ASTM A193 B8	EN 1.4301
06	4 ~ 8	Stem bushing	Wear-resistant material		
07	1 ~ 4	V-ring seal	EPDM / NBR		
08	1	O-ring seal	EPDM / NBR		
09	1	Valve stem	20Cr13	AISI 420 (UNS S42000)	EN X20Cr13 (1.4021)
10	1	Disc	Ductile iron / CF8	ASTM A536 65-45-12 ASTM A351 CF8	EN-GJS-450-10 EN 1.4308
11	1	Seat liner	EPDM / NBR		

Dimensions







DN (mm)	Matching Actuator	Dimensioning code				Pressure : 16 bar			Unit : mm	
		L	T	S	N	Q	H	E	F	R
Double acting (DA)										
50	RT020-DA	147	41	71.5	20	72	136	4×Φ18	125	52.9
65	RT035-DA	168	44	83	20	88	144	4×Φ18	145	64.5
80	RT050-DA	184	44	95	20	99.5	151	8×Φ18	160	78.8
100	RT075-DA	212	51	103	20	108.7	167	8×Φ18	180	104
125	RT110-DA	262	54	108.5	20	116.5	185	8×Φ18	210	123.3
150	RT160-DA	268	54	121.5	20	133	209	8×Φ22	240	155.6
200	RT255-DA	301	59	142	30	155	235	12×Φ22	295	202.5
250	RT435-DA	390	65	152	30	172	272	12×Φ26	355	250.5
300	RT665-DA	458	76	174	30	197	302	12×Φ26	410	301.6
Single acting (SR)										
50	RT035-SR	168	41	83	20	88	136	4×Φ18	125	52.9
65	RT050-SR	184	44	95	20	99.5	144	4×Φ18	145	64.5
80	RT075-SR	212	44	103	20	108.7	151	8×Φ18	160	78.8
100	RT110-SR	262	51	108.5	20	116.5	167	8×Φ18	180	104
125	RT160-SR	268	54	121.5	20	133	185	8×Φ18	210	123.3
150	RT255-SR	301	54	142	30	155	209	8×Φ22	240	155.6
200	RT435-SR	390	59	152	30	172	235	12×Φ22	295	202.5
250	RT665-SR	458	65	174	30	197	272	12×Φ26	355	250.5
300	RT1000-SR	534	76	206	30	230	302	12×Φ26	410	301.6

Limited Warranty

BLLYCO (Bolaikong Technology (Wuxi) Co., Ltd.) warrants the products described herein to be free from defects in material and workmanship under normal use and service conditions for a period of one (1) year from the date of shipment.

BLLYCO's sole obligation under this warranty is limited to repairing or replacing the defective product, at BLLYCO's discretion, after inspection confirms the defect. A prerequisite for this warranty obligation is that the defective product must be returned to BLLYCO for inspection within three (3) months after the defect is discovered. Parts and labor for such repair or replacement of confirmed defective products shall be provided free of charge.

This warranty does NOT apply to any of the following cases:
(a) Components or products not manufactured by BLLYCO;
(b) Products damaged due to abuse, negligence, accident, or misapplication;
(c) Products modified, disassembled or repaired by parties other than BLLYCO or its authorized service providers;
(d) Routine maintenance work and replacement of consumable / wearing parts.

No legal claim for alleged breach of this warranty may be filed against BLLYCO unless such action is commenced within one (1) year from the date the cause of action arises.

Limits of Liability

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Safety

Safety logos, which appear throughout our catalog, are used as a reminder that the user should carefully review for the appropriateness of the product for the media, application, and environment in which it will be used.

NOTE: Product selection and installation shall be performed by qualified personnel. The user is responsible for verifying product suitability for process medium, pressure, temperature and service conditions. Improper selection, installation or operation may cause equipment damage or personal injury.

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