Product Data Sheet





< STANDARDS >



ASTM D4101 ASTM D1784 ASTM D3222



ANSI B16.5

IPEX FK Series Automated Butterfly Valves offer superior strength and chemical resistance in highly corrosive environments and process flow conditions. This versatile industrial valve features double self-lubricating seals, and a special shaped liner and body cavity guaranteeing a bubble tight seal while keeping break-away torque at an absolute minimum. An integral stainless steel lug version provides for full bi-directional operation allowing disassembly of the downstream flange connection without weakening the integrity of the upstream connection to the pressurized line. FK Series Automated Butterfly Valves are part of our complete systems of pipe, valves, and fittings, engineered and manufactured to our strict quality, performance, and dimensional standards.

VALVE AVAILABILITY

Body Material:	Glass reinforced PP (GRPP)
Disc Material:	PP, PVC, CPVC, PVDF
Size Range:	1-1/2" through 12"
Pressure:	See Sample Specifications
Seats:	EPDM or FKM
Seals:	EPDM or FKM
Body Style:	Wafer or Lugged
End Connections:	Flanged (ANSI 150)
Actuator Control:	Double Acting Pneumatic, Spring Return Pneumatic, Electric

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Product Data Sheet

Sample Specificaiton

1.0 Butterfly Valves - FK

1.1 Material

- The valve body shall be made of glass reinforced polypropylene (GRPP) obtained from homopolymer polypropylene (PPH).
- The valve disc shall be made of stabilized PP homopolymer compound, also containing a RAL 7032 pigment, which shall meet or exceed the requirements of Type I Polypropylene according to ASTM D4101.
- The valve disc shall be made of PVC compound which shall meet or exceed the requirements of cell classification 12454 according to ASTM D1784.
- The valve disc shall be made of Corzan® CPVC compound which shall meet or exceed the requirements of cell classification 23447 according to ASTM D1784.
- The valve disc shall be made of virgin, non-regrind PVDF compound which shall meet or exceed the requirements of Table 1 according to ASTM D3222.
- The valve shaft shall be made of 316 or 420 stainless steel.

1.2 Seats

- The disc liner shall be made of EPDM.
- The disc liner shall be made of FKM.

1.3 Seals

- The o-ring seals shall be made of EPDM.
- The o-ring seals shall be made of FKM.

2.0 Connections

2.1 Flanged style

 The ANSI 150 flanged connections shall conform to the dimensional standard ANSI B16.5.

3.0 Design Features

- The valve shall be of either wafer or lugged design (specifier must select one).
- The lugged style shall feature permanently integrated stainless steel lugs.
 No field inserted lugs allowed.
- The shaft shall have standard ISO square dimensions for direct mounting of actuators.
- The disc seat shall be a trapezoidal elastomeric liner and provide a bubble tight seal.
- The liner shall completely isolate the valve body from the process flow.
- The liner shall function as a flange gasket on both sides of the valve.
- The body cavity shall feature special channeling to prevent liner slippage and compression.
- The disc, seats, and seals shall be the only wetted parts.
- Teflon® seated o-ring seals shall prevent the stainless steel shaft from becoming wetted.

Product Data Sheet

3.1 Pressure Rating

PP Disc, Wafer Style

- 1-1/2" to 10" shall be rated at 150 psi at 73°F
- 12" shall be rated at 120 psi at 73°F
- 14" shall be rated at 100 psi at 73°F
- 16" shall be rated at 85 psi at 73°F

PVC Disc, Wafer Style

- 14" shall be rated at 100 psi at 73°F
- 16" shall be rated at 85 psi at 73°F

CPVC Disc, Wafer Style

- 1-1/2" and 2" shall be rated at 232 psi at 73°F
- 2-1/2" to 10" shall be rated at 150 psi at 73°F
- 12" shall be rated at 120 psi at 73°F

PVDF Disc, Wafer Style

- 1-1/2" and 2" shall be rated at 232 psi at 73°F
- 2-1/2" to 10" shall be rated at 150 psi at 73°F
- 12" shall be rated at 120 psi at 73°F

PP Disc, Lugged Style

- 2-1/2" to 8" shall be rated at 150 psi at 73°F
- 10" and 12" shall be rated at 85 psi at 73°F

CPVC Disc, Lugged Style

- 2-1/2" to 8" shall be rated at 150 psi at 73°F
- 12" shall be rated at 85 psi at 73°F

PVDF Disc, Lugged Style

- 2-1/2" to 8" shall be rated at 150 psi at 73°F
- 12" shall be rated at 85 psi at 73°F

3.2 Markings

 All valves shall be marked to indicate size, material designation, and manufacturers name or trade mark.

3.3 Color Coding

- All valve bodies shall be color-coded beige gray.
- PP valve discs shall be color-coded beige gray
- PVC valve discs shall be color-coded dark gray
- CPVC valve discs shall be color-coded light gray
- PVDF valve discs shall not be color-coded and be white in appearance
- **4.0** All valves shall be by IPEX or approved equal.

5.0 Actuators

All Actuators shall be factory installed by IPEX

Pneumatic Actuator:

- Shall be sized for 80 psi control air pressure
- Shall be dual piston rack and pinion design with linear torque output.
- Body shall be Technopolymer UT series or Anodized Aluminum MT series with standard position indicator and NAMUR VDI/VDE 3845 and ISO 5211 mounting dimensions.
- All models shall be operable using air, water, nitrogen or compatible hydraulic fluids from 40 – 120psi.
- Aluminum body models shall feature dual travel stops that provide +/- 10° stroke rotation on both the opening and closing phases.
- · All external fasteners shall be stainless steel.

Electric Actuator:

Contact IPEX.

Product Data Sheet

Valve Selection

Size (inches)	Disc Material	Seal Material	Pneur Double	matic	Pneumatic S	irt Number pring Return, v Closed	Pneumatic Spring Return Normally Open		
(IFICFIES)	Material	Material	Wafer	SS Lugs	Wafer	SS Lugs	Wafer	SS Lugs	
1-1/2	PP	EPDM	253536	-	253572	_	253608	-	
I-1/ Z	PP	FKM	253546	_	253582	_	253618	_	
2	PP	EPDM	253537	-	253573	-	253609	-	
2	PP	FKM	253547	-	253583	-	253619	-	
2-1/2	PP	EPDM	253538	253556	253574	253592	253610	253628	
2-1/2	PP	FKM	253548	253564	253584	253600	253620	253636	
3	PP	EPDM	253539	253557	253575	253593	253611	253629	
3	PP	FKM	253549	253565	253585	253601	253621	253637	
,	DD	EPDM	253640	253558	253576	253594	253612	253630	
4	PP	FKM	235550	235566	253586	253602	253622	253638	
_	DD	EPDM	253541	253559	253577	253595	253613	253631	
5	PP	FKM	253551	253567	253587	253603	253623	253639	
6	PP	EPDM	253542	253560	253578	253596	253614	253632	
0	PP	FKM	253552	253568	253588	253604	253624	253640	
8	DD	EPDM	253543	253561	253579	253597	253615	253633	
8	PP	FKM	253553	253569	253589	253605	253625	253641	
10	DD	EPDM	253544	253562	253580	253598	253616	253634	
10	PP	FKM	253554	253570	253590	253606	253626	253642	
10	DD	EPDM	253545	253563	253581	253599	253617	253635	
12	PP	FKM	253555	253571	253591	253607	253627	253643	

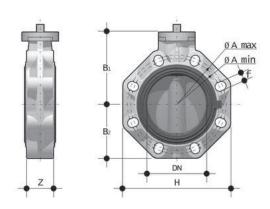
Size (inches)	Disc Material	Seal Material	Pneun Double		IPEX Pa Pneumatic S Normally			Spring Return, Illy Open
(IFICFIES)	Material	Material	Wafer	SS Lugs	Wafer	SS Lugs	Wafer	SS Lugs
1-1/2	CPVC	EPDM FKM	154600 154668	-	154618 154686	-	154636 154704	-
2	CPVC	EPDM FKM	154601 154669	-	154619 154687	-	154637 154705	-
2-1/2	CPVC	EPDM FKM	154602 154670	154610 154678	154620 154688	154628 154696	154638 154706	154646 154714
3	CPVC	EPDM FKM	154603 154671	154611 154679	154621 154689	154629 154697	154639 154707	154647 154715
4	CPVC	EPDM FKM	154604 154672	154612 154680	154622 154690	154630 154698	154640 154708	154648 154716
5	CPVC	EPDM FKM	154605 154673	154613 154681	154623 154691	154631 154699	154641 154709	154649 154717
6	CPVC	EPDM FKM	154606 154674	154614 154682	154624 154692	154632 154700	154642 154710	154650 154718
8	CPVC	EPDM FKM	154607 154675	154615 154683	154625 154693	154633 154701	154643 154711	154651 154719
10	CPVC	EPDM FKM	154608 154676	154616 154684	154626 154694	154634 154702	154644 154712	154652 154720
12	CPVC	EPDM FKM	154609 154677	154617 154685	154627 154695	154635 154703	154645 154713	154653 154721

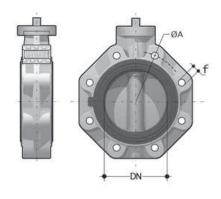
FOR CUSTOM CONFIGURATIONS, PLEASE CONTACT IPEX.

PVC and PVDF disc valves available on request. For 10" and 12" electrically actuated valves, please contact IPEX. For 14" and 24" actuated valves, please contact IPEX

Product Data Sheet

Dimensions

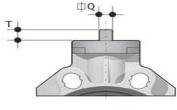


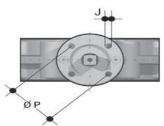


Dimensions	

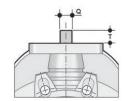
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Size	DN	Z	B ₁	B_2	Н	Amin	Amax		Alug	flug	# holes	
1-1/2	1.57	1.30	4.17	2.36	5.20	3.90	4.29	0.75	3.87	1/2-UNC	4	
2	1.97	1.69	4.41	2.76	5.79	4.53	4.94	0.75	4.75	5/8-UNC	4	
2-1/2	2.56	1.81	4.69	3.15	6.50	5.04	5.67	0.75	5.50	5/8-UNC	4	
3	3.15	1.93	5.24	3.66	7.28	5.71	6.30	0.75	6.00	5/8-UNC	8	
4	3.94	2.20	5.79	4.21	8.31	6.50	7.48	0.75	7.50	5/8-UNC	8	
5	4.92	2.52	6.57	4.72	9.45	8.03	8.46	0.91	8.50	3/4-UNC	8	
6	5.91	2.76	7.09	5.28	10.55	9.06	9.53	0.91	9.50	3/4-UNC	8	
8	7.87	2.80	8.94	6.34	12.72	11.02	11.73	0.91	11.75	3/4-UNC	8	
10	9.84	4.49	9.76	8.27	15.94	13.19	14.25	1.00	14.25	7/8-UNC	12	
12	11.81	4.49	12.01	9.65	18.70	15.35	17.01	1.14	17.00	7/8-UNC	12	

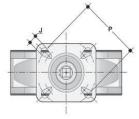
Sizes 1-1/2" to 8"





Sizes 10" to 12"





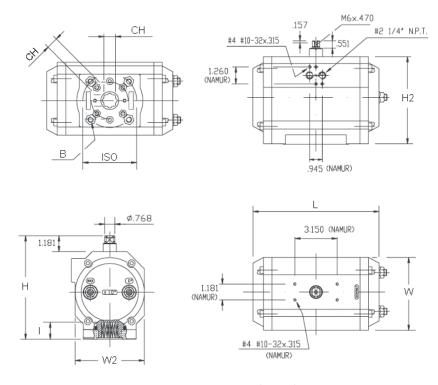
Dimensions (inches)

Size	T	Q	ISO	Р	J
1-1/2	0.47	0.43	F05	1.97	0.28
2	0.47	0.43	F05	1.97	0.28
2-1/2	0.47	0.43	F05 / F07	1.97 / 2.76	0.28 / 0.35
3	0.63	0.55	F07	2.76	0.35
4	0.63	0.55	F07	2.76	0.35
5	0.75	0.67	F07	2.76	0.35
6	0.75	0.67	F07	2.76	0.35
8	0.94	0.87	F10	4.02	0.43
10	1.14	1.06	F10 / F12 / F14	4.02 / 4.92 / 5.51	0.43 / 0.51 / 0.67
12	1.14	1.06	F10 / F12 / F14	4.02 / 4.92 / 5.51	0.43 / 0.51 / 0.67

Product Data Sheet

Pneumatic Actuator Dimensions

Models UT16, UT21, UT26, UT31, UT36, UT41, UT46, UT51, UT61



Dimensions (inches)

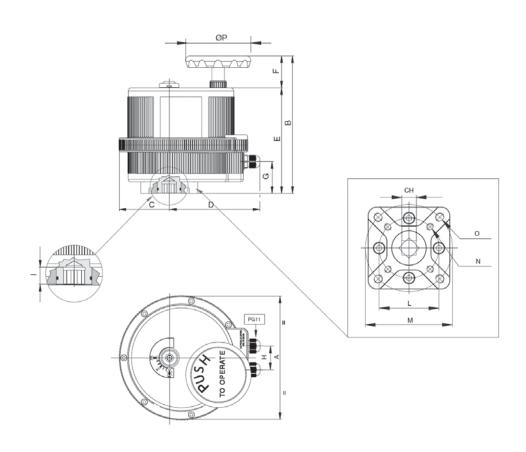
				Dirrich	310113 (1110	1100)				
Valve Size D	ouble Acting Model	ISO	СН		W	W2	Н	H2		В
1-1/2	MT16DA	F05 / F07	0.55	6.50	3.19	2.44	4.37	3.19	0.75	1/4-20 UNC x 0.51
2	MT16DA	F05 / F07	0.55	6.50	3.19	2.44	4.37	3.19	0.75	1/4-20 UNC x 0.51
2-1/2	MT16DA	F05 / F07	0.55	6.50	3.19	2.44	4.37	3.19	0.75	1/4-20 UNC x 0.51
3	MT21DA	F05 / F07	0.67	6.97	3.78	3.01	5.04	3.86	0.75	5/16-18 UNC x 0.51
4	MT21DA	F05 / F07	0.67	6.97	3.78	3.01	5.04	3.86	0.75	5/16-18 UNC x 0.51
5	MT26DA	F05 / F07	0.67	9.41	3.78	3.01	5.04	3.86	0.75	5/16-18 UNC x 0.51
6	MT31DA	F05 / F07	0.67	9.06	4.49	3.56	5.79	4.61	0.91	5/16-18 UNC x 0.51
8	MT36DA	F07 / F10	0.87	9.69	5.10	3.76	7.24	6.06	1.18	3/8-16 UNC x 0.71
10	MT51DA	F10 / F12	1.06	14.21	7.13	4.33	9.13	7.95	1.57	1/2-13 UNC x 0.79
12	MT51DA	F10 / F12	1.06	14.21	7.13	4.33	9.13	7.95	1.57	1/2-13 UNC x 0.79

Dimensions (inches)

Valve Size S	pring Return Model	ISO	СН		W	W2	Н	H2		В
1-1/2	MT21S5	F05 / F07	0.67	6.97	3.78	3.01	5.04	3.86	0.75	5/16-18 UNC x 0.51
2	MT26S4	F05 / F07	0.67	9.41	3.78	3.01	5.04	3.86	0.75	5/16-18 UNC x 0.51
2-1/2	MT26S4	F05 / F07	0.67	9.41	3.78	3.01	5.04	3.86	0.75	5/16-18 UNC x 0.51
3	MT31S4	F05 / F07	0.67	9.06	4.49	3.56	5.79	4.61	0.91	5/16-18 UNC x 0.51
4	MT36S4	F07 / F10	0.87	9.69	5.10	3.76	7.24	6.06	1.18	3/8-16 UNC x 0.71
5	MT41S4	F07 / F10	0.87	11.42	5.16	3.76	7.24	6.06	1.18	3/8-16 UNC x 0.71
6	MT46S4	F07 / F10	0.87	13.82	5.71	3.88	7.81	6.63	1.18	3/8-16 UNC x 0.71
8	MT51S4	F10 / F12	1.06	14.21	7.13	4.33	9.13	7.95	1.57	1/2-13 UNC x 0.79
10	MT61S5	F14	1.42	17.48	9.13	6.32	11.30	10.12	1.97	5/8-11 UNC x 0.98
12	MT61S5	F14	1.42	17.48	9.13	6.32	11.30	10.12	1.97	5/8-11 UNC x 0.98

Product Data Sheet

Electric Actuator Dimensions



Valve Size	Actuator Model	ISO	СН	А	В	С	D	Е	F	G	Н	ı	L	М	N	0	ØP
1-1/2	VB015	F03/F05	0.43	4.84	5.57	1.67	4.74	4.96	0.61	4.06	1.26	0.55	1.42	1.97	10-24 UNC 2BX0.47	1/4-20 UNC 2BX0.55	2.68
2	VB030	F03/F05	0.43	6.18	7.40	2.38	5.12	5.75	1.65	1.30	1.42	0.47	1.42	1.97	10-24 UNC 2BX0.47	1/4-20 UNC 2BX0.55	2.56
2-1/2	VB030	F03/F05	0.43	6.18	7.40	2.38	5.12	5.75	1.65	1.30	1.42	0.47	1.42	1.97	10-24 UNC 2BX0.47	1/4-20 UNC 2BX0.55	2.56
3	VB060	F05/F07	0.55	7.28	8.46	2.66	5.77	6.81	1.65	2.01	1.42	0.63	1.97	2.76	1/4-20 UNC 2BX0.59	5/16-18 UNC 2BX0.67	2.56
4	VB060	F05/F07	0.67	7.28	8.46	2.66	5.77	6.81	1.65	2.01	1.42	0.63	1.97	2.76	1/4-20 UNC 2BX0.59	5/16-18 UNC 2BX0.67	2.56
5	VB110	F07/F10	0.67	8.31	9.14	3.31	6.02	7.01	2.13	2.13	1.58	0.75	2.76	4.02	5/16-18 UNC 2BX0.79	3/8-16 UNC 2BX0.79	4.33
6	VB110	F07/F10	0.67	8.31	9.14	3.31	6.02	7.01	2.13	2.13	1.58	0.75	2.76	4.02	5/16-18 UNC 2BX0.79	3/8-16 UNC 2BX0.79	4.33
8	VB270	F07/F10	0.87	8.74	9.19	3.03	6.69	7.17	2.03	2.13	1.58	0.95	2.76	4.02	5/16-18 UNC 2BX0.79	3/8-16 UNC 2BX0.79	4.33

Product Data Sheet



Note: Pneumatic actuator performance is based on 80psi available control air pressure.

Valve Size (inches)	Double Acting Pneumatic	Spring Return Pneumatic
1-1/2	UT16DA	UT21S5
2	UT16DA	UT26S4
2-1/2	UT16DA	UT26S4
3	UT21DA	UT31S4
4	UT21DA	UT36S4
5	UT26DA	UT41S4
6	UT31DA	UT46S4
8	UT36DA	UT51S4
10	UT51DA	UT61S5
12	UT51DA	UT61S5

Pneumatic Actuator Torque Data

Valve Size	DOUB	LE ACTING	SPRING RETURN									
(inches)	Model	Torque (in-lbs)	Model	Spring Set (standard)	Spring Tor Start	que (in-lbs) End	Air Torqu Start	e (in-lbs) End				
1-1/2	UT16DA	275	UT21S5	S5	307	230	270	193				
2	UT16DA	275	UT26S4	S4	392	247	503	358				
2-1/2	UT16DA	275	UT26S4	S4	392	247	503	358				
3	UT21DA	500	UT31S4	S4	502	374	626	498				
4	UT21DA	500	UT36S4	S4	824	614	986	776				
5	UT26DA	750	UT41S4	S4	1011	741	1259	989				
6	UT31DA	1000	UT46S4	S4	1779	1120	2005	1346				
8	UT36DA	1600	UT51S4	S4	2203	1738	2762	2297				
10	UT51DA	4500	UT61S5	S5	5366	4277	4823	3734				
12	UT51DA	4500	UT61S5	S5	5366	4277	4823	3734				

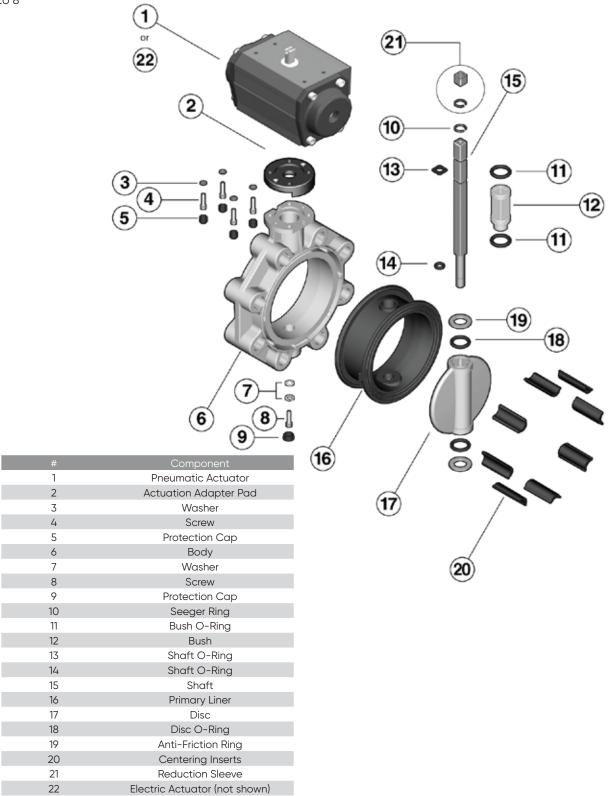
Pneumatic Actuator Weights and Air Consumption

Valve Size		DOUBLE ACTING			SPRING RETURN	
(inches)	Model	Weight (lbs)	Air Cons. (in3)	Model	Weight (lbs)	Air Cons. (in3)
1-1/2	UT16DA	4.03	25.6	UT21S5	7.16	18.1
2	UT16DA	4.03	25.6	UT26S4	9.88	30.0
2-1/2	UT16DA	4.03	25.6	UT26S4	9.88	30.0
3	UT21DA	6.33	44.4	UT31S4	12.28	40.6
4	UT21DA	6.33	44.4	UT36S4	19.88	75.0
5	UT26DA	8.82	68.7	UT41S4	23.61	100.0
6	UT31DA	10.67	88.9	UT46S4	33.11	115.6
8	UT36DA	16.71	153.1	UT51S4	49.89	181.3
10	UT51DA	39.24	425.0	UT61S5	101.19	343.8
12	UT51DA	39.24	425.0	UT61S5	101.19	343.8

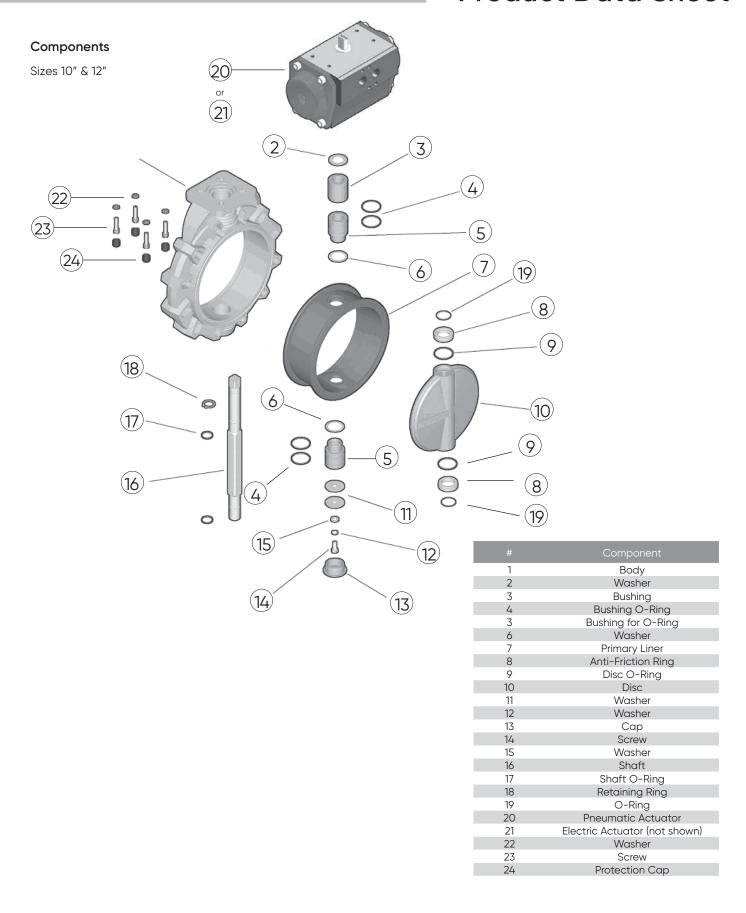
Product Data Sheet

Components

Sizes 1-1/2" to 8"



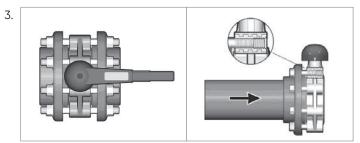
Product Data Sheet



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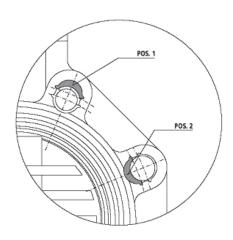
Installation

- For non-lugged style sizes 1-1/2" through 8", push the inserts (27) into the body holes according to the position chart below.
- Ensure that the length of the bolts is sufficient for the size
 of valve being installed. Due to the varying designs of
 plastic flanges, there is no recommended minimum length.
 However, a length that results in at least 5 exposed
 threads on each side should be sufficient.

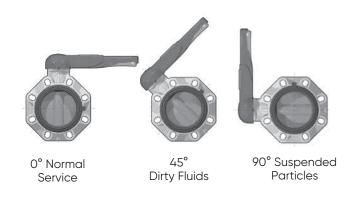


Please refer to the appropriate application sub-section:

- a. For typical inline installation, ensure that the disc is in the partially closed position then carefully insert the valve into the piping system between the two flanges. Insert the bolts, washers, and nuts (if necessary), then hand tighten. Take care to properly line up the valve and flanges as any misalignment may cause leakage.
- b. For lugged version end of line installation, ensure that the disc is in the partially closed position then carefully position the valve on the flange. Insert the bolts, and washers, then hand tighten. Take care to properly line up the valve and flange as any misalignment may cause leakage.



4. Connect pneumatic or electric connections according to provided diagrams.



Size (inches)	ANSI 150 Insert Position	Nominal Bolt Torque (ft-lbs)
1-1/2	POS 1	7
2	-	9
2-1/2	POS 2	11
3	POS 2	13
4	POS 2	15
5	POS 2	26
6	POS 2	30
8	POS 2	41
10	_	52
12	-	52

5. To avoid damage to the primary gasket, cycle the valve to the open position before tightening the bolts. For correct joining procedure, please refer to the section entitled, "Joining Methods – Flanging" in the IPEX Industrial Technical Manual Series, "Volume I: Vinyl Process Piping Systems". The bolts should be tightened in an even pattern to the nominal torque in the table below. These torque ratings are sufficient to maintain a watertight seal at the maximum rated operating pressure.

Note: If the process media is dirty or contains suspended particles, it is advisable to install the valve in an orientation in which the shaft is not vertical (see diagrams). Over time, particles may collect at the bottom of the valve posing a threat to the seal between the disc, liner, and shaft.

Note: All quarter turn automated valves are tested for proper operation before leaving the factory.

Product Data Sheet

Disassembly

- If removing the valve from an operating system, isolate the valve from the rest of the system. Be sure to depressurize and drain the isolated branch before continuing. It is recommended that all actuators be de-activated before servicing the valve to avoid injury.
- 2. Cycle the valve to a partially open position then loosen each bolt holding the valve to the pipe flange(s). Please refer to the section entitled, "Joining Methods Flanging" in the IPEX Industrial Technical Manual Series, "Volume I: Vinyl Process Piping Systems" for a recommended bolt tightening pattern diagram. Follow the same pattern when disassembling the flanged joint(s) then carefully remove the valve from the line.

Sizes 1-1/2" to 8":

- Loosen and remove the bolts, washers and protection caps fixed to the actuator (3, 4, & 5). Carefully remove the actuator and the pad (2) from the valve taking care not to damage the stem.
- 4. Remove the cap (9) then loosen and remove the screw (8) and washer (7) from the base of the valve body.
- 5. Carefully pull the shaft (15) out of the valve body then remove the disc (17).
- 6. Remove the primary liner (16) from the valve body.
- Remove the nylon bushing (12) and o-rings (11) from the valve body (sizes 2-1/2" to 8").
- 8. Remove the disc anti-friction rings (19), and o-rings (18, sizes 2-1/2" to 8").
- Remove the retaining ring (10, sizes 2-1/2" to 8") and o-rings (13, 14) from the shaft.
- 10. The valve components can now be checked for problems and/or replaced.

Sizes 10" to 12":

- 3. Loosen and remove the bolts, washers and protection caps fixed to the actuator (22, 23 & 24). Carefully remove the actuator from the valve taking care not to damage the stem.
- Remove the cap (13) then loosen and remove the screw (14) and washers (11, 12 & 15) from the base of the valve body (1).
- 5. Carefully pull the shaft (16) out of the valve body then remove the disc (10).
- 6. Remove the primary liner (7) from the valve body.
- 7. Remove the upper and lower bushings (3, 5), washers (2, 6), and o-rings (4) from the valve body.
- 8. Remove the disc anti-friction rings (8) and o-rings (9, 19).
- 9. Remove the retaining ring (18) and o-rings (17) from the shaft.
- The valve components can now be checked for problems and/or replaced.

Product Data Sheet

Assembly

Note: Before assembling the valve components, it is advisable to lubricate the o-rings with a water soluble lubricant. Be sure to consult the "IPEX Chemical Resistance Guide" and/or other trusted resources to determine specific lubricant-rubber compatibilities.

Sizes 1-1/2" to 8":

- Insert the primary liner (16) into the valve body (6). Ensure that the proper holes line up with those on the body.
- Properly fit the o-rings (11) on the nylon bushing (12) (sizes 2-1/2" to 8") then insert the Teflon washer and bushing into the valve body from above.
- Properly fit the disc o-rings (18, sizes 2-1/2" to 8") and antifriction rings (19) on the disc (17), then insert into the valve liner taking care to center the holes.
- 4. Properly fit the o-rings (13, 14) and retaining ring (10, sizes 2-1/2" to 8") in their grooves on the shaft (15), then carefully insert into the valve body from above.
- 5. Fasten the shaft at the base of the valve body using the screw (8) and washer (7). Affix the cap (9) over the bolt.
- 6. Place the spacer pad (2) on the valve body.
- 7. Carefully place the actuator on the stem, lining up the holes. Fasten using the necessary bolts, washers and protection caps (3, 4 & 5). Ensure that the actuator and disk position correspond to the same operating position.

Sizes 10" to 12":

- Insert the primary liner (7) into the valve body (1). Ensure that the proper holes line up with those on the body.
- Properly fit the o-rings (4) on the upper and lower bushings (3, 5) then insert into the valve body from above and below along with the washers (2, 6).
- Properly fit the disc o-rings (9, 19) and anti-friction rings (8) on the disc (10), then insert into the valve liner taking care to center the holes.
- Properly fit the o-rings (17) and retaining ring (18) in their grooves on the shaft (16), then carefully insert into the valve body from above.
- 5. Fasten the shaft at the base of the valve body using the screw (14) and washers (11, 12, and 15). Affix the cap (13) over the bolt.
- Carefully place the actuator on the stem, lining up the holes. Fasten using the necessary bolts, washers and protection cap (22, 23 & 24). Ensure that the actuator and disk position correspond to the same operating position.

FK Series Automated Butterfly Valves Product Data Sheet

About the IPEX Group of Companies

As leading suppliers of thermoplastic piping systems, the IPEX Group of Companies provides our customers with some of the world's largest and most comprehensive product lines. All IPEX products are backed by more than 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, we have established a reputation for product innovation, quality, end-user focus and performance.

Markets served by IPEX group products are:

- · Electrical systems
- · Telecommunications and utility piping systems
- · Industrial process piping systems
- Municipal pressure and gravity piping systems
- · Plumbing and mechanical piping systems
- · Electrofusion systems for gas and water
- · Irrigation systems
- PVC, CPVC, PP, PVDF, PE, ABS, and PEX pipe and fittings

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