

This product is represented in Australia, New Zealand, and PNG by:

InKorr Pty Ltd

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Contact InKorr Pty Ltd for:





Heat Exchangers

- Shell & Tube Heat Exchangers
- Gasketed Plate Heat Exchangers
- Brazed Plate Heat Exchangers
- Crossflow Welded Plate Heat Exchangers
- Plate & Shell Heat Exchangers
- Non Metallic Heat Exchangers
- Corrugated Tube Heat Exchangers
- Spiral Heat Exchangers
- Air-Cooled Heat Exchangers



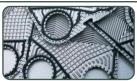
Vessels, Columns, and Equipment manufactured from:

- Exotic Alloys (Ta, Zr, Ti)
- Graphite and Silicon Carbide
- PTFE Lining



Plastic Lined Valves and Piping

- PTFE
- PVDF
- PP
- and many more!

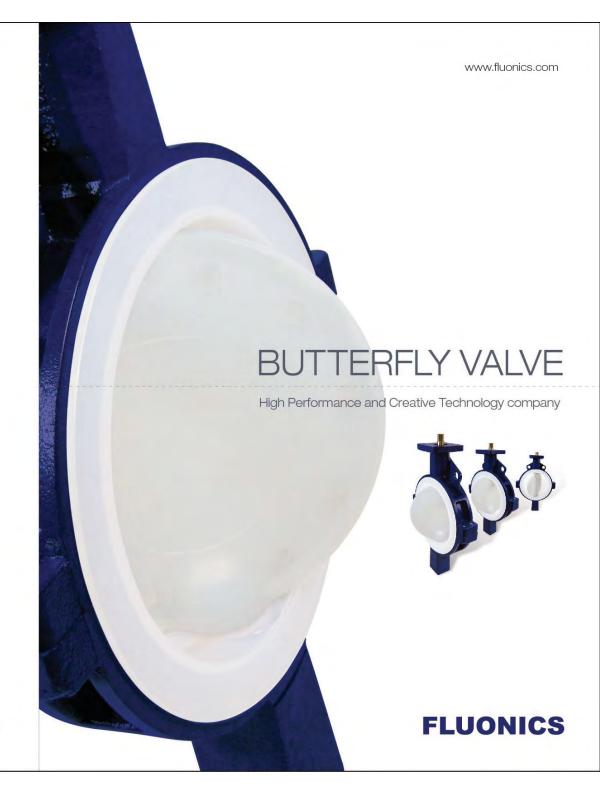


Servicing and reburbishment of heat exchangers!

- Plate cleaning
- NDE for crack testing
- Spare parts, both OEM and aftermarket

InKorr Pty Ltd Unit 8, 1470 Ferntree Gully Road, Knoxfield, VIC 3180, Australia ABN: 48 159 224 996

FLUONICS



FLUONICS Co.,Ltd

#163-2, Gwanghak-ro, Hojeo-myeon, Wonju-si, Kangwon-Do, Korea T82.33.731.3550 F82.33.731.3559

2 I BUTTERFLY VALVE



Fluonics is...

Fluonics is manufactor of PFA lined valves and PFA, PTFE lined fittings & pipes.
From start, Fluonics never stopped developing.
New solution for clients and supply best quality product under motto of Fluonics "High Performance and Creative Technology company"

Feature

High tension coil spring

Ensures a stable seal at both the upper and lower gland even at extreme temperature or when thermal shock occurs.

Minimum 3mm PFA Thickness

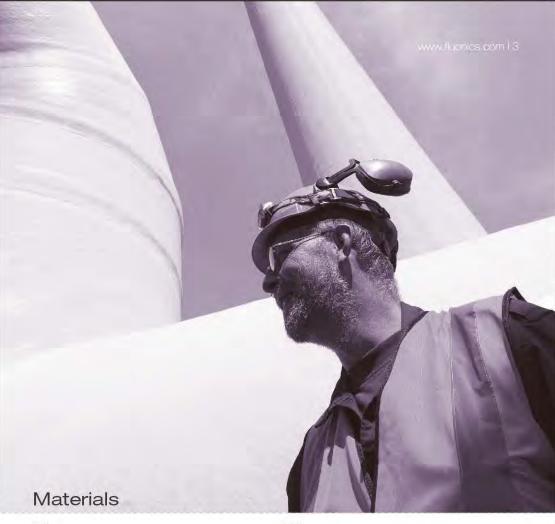
Seamfree PFA Lining on the Liner and disc to minimum thickness of 3mm prevents permeation of dangerous fluids.

Flange seal

Stable flange sealing performance is ensured by concentric circular grooves on the flange faces thereby eliminating the need for a special gasket when operating under specified temperatures

Safety sealing

The upper and lower stem housing of the fluonics butterfly valve have same length high tension coil springs which provide stable sealing performance in cases of temperature change. The sealing design features a triple acting sealing mechanism controlled by the balanced spring forces.



PFA

PFA exhibits thermal characteristics like to PTFE, being able to withstand super low to high temperatures (260°c Maximum temp. for continuous use). It is also transparent and mechanically strong under high temperature. It is easily workable besides applicable with extrusion molding to the same degree as general thermoset plastics. It is used where purity is important, such a semiconductor wafer baskets, piping couplings and non-corrosive linings. PFA has better mechanical strength at high temperatures than FEP, and excellent moldability for easy processing by extrusion, compression, blow, transfer and injection molding methods. Due to the high bonding strength of the carbon, fluorine and oxygen atoms, PFA demonstrates nearly the same outstanding capabilities as PTFE in temperatures ranging from - 200°c to +260°c.

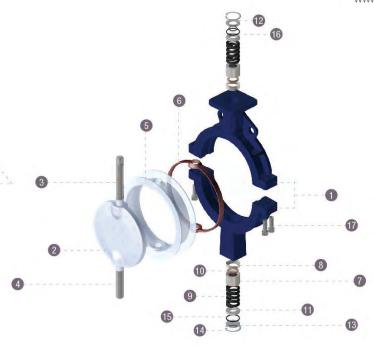
TEE

The fluorine atoms completely cover the carbon chain backbone and protect the carbon-carbon bond from attack. The fluorine atoms are also responsible for the low surface energy and exceptional frictional characteristics of PTFE. Because of very high melt viscosity, PTFE does not flow above its melting point.

It requires special polymer processing like paste extrusion, compression molding and sintering. Among all the fluoroplastics products, PTFE offers the highest heat resistances at 260% (maximum temp. for continuous use). It is not corroded by most chemicals and has good electrical insulation and dielectric characteristics. Moreover, it has a unique non-stick property and the lowest coefficient of friction amongst solids. It is the most widely used fluoroplastics, now found in O-rings, gaskets, bearings, tube, wiring, hot plates and irons because of its non-stick property, as well as chemical tank linings.



4 I BUTTERFLY VALVE



Material of Parts

	BODY	ASTM A395 D.I	ASTM A395 D.I
	DISC	Stainless Steel with PFA lining	Polished Stainless Steel
	UPPER STEM	Stainless Steel	Stainless Steel
	LOWER STEM	Stainless Steel	Stainless Steel
	BODY LINER	PFA / PTFE	PFA / PTFE
	BACK-UP RING	VITON	VITON
	BEARING	SUS 304	SUS 304
	SECONDARY RING	SUS 304	SUS 304
	SPRING	SPRING STEEL	SPRING STEEL
10	GLAND PACKING	VITON	VITON
11	DUST SEAL	SUS 304	SUS 304
12	TOP GLAND	SUS 304	SUS 304
13	BOTTOM PLATE	SUS 304	SUS 304
14	C-RING	SUS 304	SUS 304
15	OUTER O-RING	VITON	VITON
16	INNER O-RING	VITON	VITON
17	WRENCH BOLT	SUS 304	SUS 304

Butterfly Valve Features



Same length high tension coil springs provide stable sealing performance in cases of temperature change.



The seal to atmosphere is established where the Viton elastomer band encircles the base of the shaft.



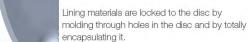
The electrostatic epoxy coating resists atmospheric corrosion.

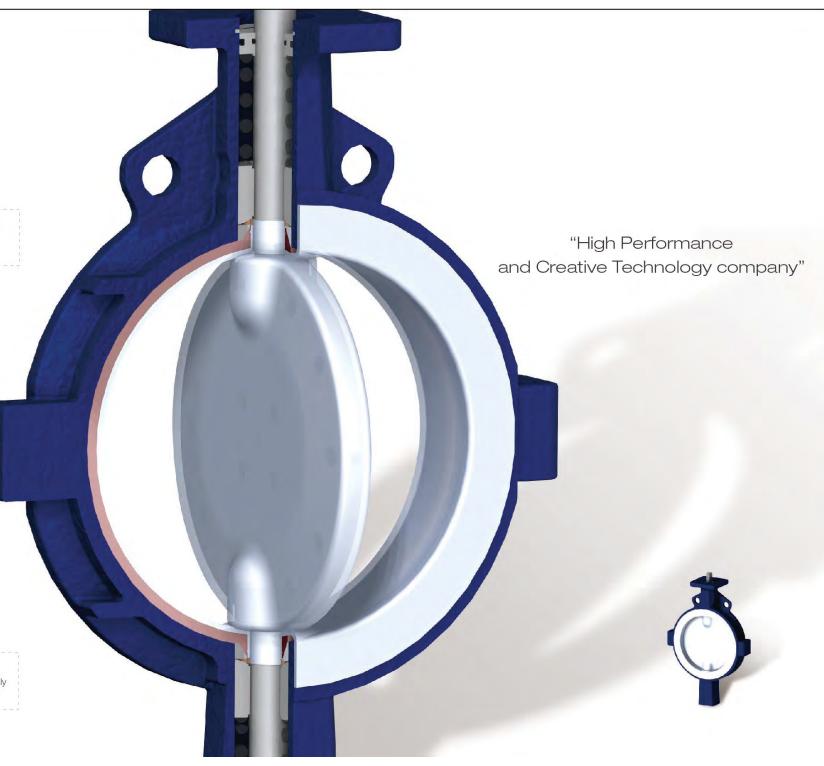


PFA linings are more flexible than PTFE lining. They facilitate more reliable, tighter sealing.



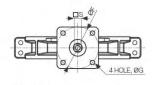
The wider sealing area ensures minimum creep at high temperature.

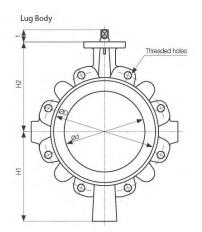


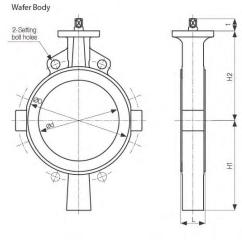


Butterfly Valve Dimensions

Nomi	nal size					Dimensio	on (mm)					
mm	inch	ød	øD	L	H1	H2	t	S	ØF	øG	Ref	
50A	2"	53	96	43	62	119	23	12	70	9	E	1
80A	3"	80	125	46	132.5	132.5	23	12	70	9	G	-
100A	4"	102	142	52	148	148	28	14	70	9	Н	
150A	6"	151	208	56	183	183	28	14	102	11	J	1
200A	8"	197	247	60	220	220	31	18	102	11	K	
250A	10"	247	320	68	260	260	35	24	102	11	L	1
300A	12"	296	370	78	297	297	35	24	125	13	M	ï
350A	14"	349	418	78	335	335	45	30	140	18	N	1
400A	16"								1		0	1
450A	18"										P	
500A	20"					1			i. I	(Q	1
600A	24"								I .	1	R	







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Body materials Ref. Valve type Ref Ductile Iron(A395) F Butterfly valve BF Disc Material Ref. Liner Material Ref SUS 304, PFA Lined 01 PFA P SUS 304L, PFA Lined 02 PTFE T SUS 316, PFA Lined 03 SUS 316L, PFA Lined 04 Body surface finish Ref SUS 304 Polished 05 Epoxy coated P SUS 304 Polished 06 SUS 316 Polished 07 SUS 316 Polished 08 Coperating Ref. Lever L Worm gear W Actuator A OK 200A Butterfly valve with PTFE liner, wafer type ductile cast iron body, PFA lined 316L disc, worm gear operator, body epoxy of the type University of the University of t												
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SUS 304L, PFA Lined	Disc Mat	erial		Ref.		L	iner Mate	erial		Ref.		
SUS 316L, PFA Lined 04 Body surface finish Ref SUS 304 Polished 05 Epoxy coated P SUS 304 Polished 06 SUS 316 Polished 07 SUS 316L Polished 08 Operating Ref. Manual Lever L Worm gear W Actuator A OK 200A Butterfly valve with PTFE liner, wafer type ductile cast iron body, PFA lined 316L disc, worm gear operator, body epoxy of the connections J Valve type BF Liner Material T Body type Body material F	SUS 304, PF	A Lined		01			PFA			P		
SUS 316L, PFA Lined 04 Body surface finish Ref SUS 304 Polished 05 Epoxy coated P SUS 304 Polished 06 SUS 316 Polished 07 SUS 316L Polished 08 Operating Ref. Manual Lever L Worm gear W Actuator A OK 200A Butterfly valve with PTFE liner, wafer type ductile cast iron body, PFA lined 316L disc, worm gear operator, body epoxy of Corder example K Connections J Valve type BF Liner Material T Body type Body material F	SUS 304L, P	FA Lined		02			PTFE			T		
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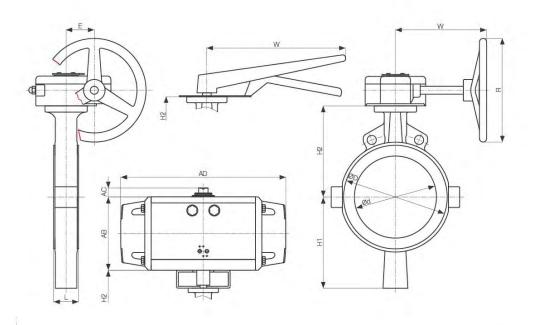
Operating

Body surface finish

Operating type

Worm Gear

Nomir	nal size								
mm	inch	φd	φD	L	H1	H2	E	F	W
50A	2"	53	96	43	62	119	45	118	180
80A	3"	80	125	46	132.5	132.5	45	118	180
100A	4"	102	142	52	148	148	45	118	180
150A	6"	151	208	56	183	183	45	118	180
200A	8"	197	247	60	220	220	68	220	250
250A	10"	247	320	68	260	260	68	220	250
300A	12"	296	370	78	297	297	98	280	350
350A	14"	349	418	78	335	335	98	280	350
400A	16"					1			1
450A	18")	1) L	1 3			} }
500A	20"	1		(1	1 3			1
600A	24"	1			Y				1 1



Spring Return

Nomina	al size					Dimensi	on (mm)				
mm	inch	φd	φD	L		H1	H2	AB		AC	AD
50A	2"	53	96	43	1	62	169	221		30	497
80A	3"	80	125	46	1	132.5	182.5	221		30	497
100A	4"	102	142	52	1	148	198	247	1	30	555
150A	6"	151	208	56	1	183	243	247	li li	30	555
200A	8"	197	247	60	1	220	280	247	ú	30	555

Double Acting

		-										
Nom	ina	l size					Dimensi	on (mm)				
mm		inch	φd	φD	L		H1	H2	AB	AC	AD	1
50A	0	2"	53	96	43	· Y	62	169	196	30	467	Ì
80A	0	3"	80	125	46		132.5	182.5	196	30	467	0
100A	0	4"	102	142	52	1	148	198	221	30	497	T
150A	1	6"	151	208	56	, i	183	243	221	30	497	1
200A	1	8"	197	247	60	10	22	280	221	30	497	1

Lever

Nomin	al size			Dimens	sion (mm)		
mm	inch	φd	φD	L	H1	H2	W
50A	2"	53	96	43	62	119	200
80A	3"	80	125	46	132.5	132.5	200
100A	4ª	102	142	52	148	148	200
150A	6"	151	208	56	183	183	300

