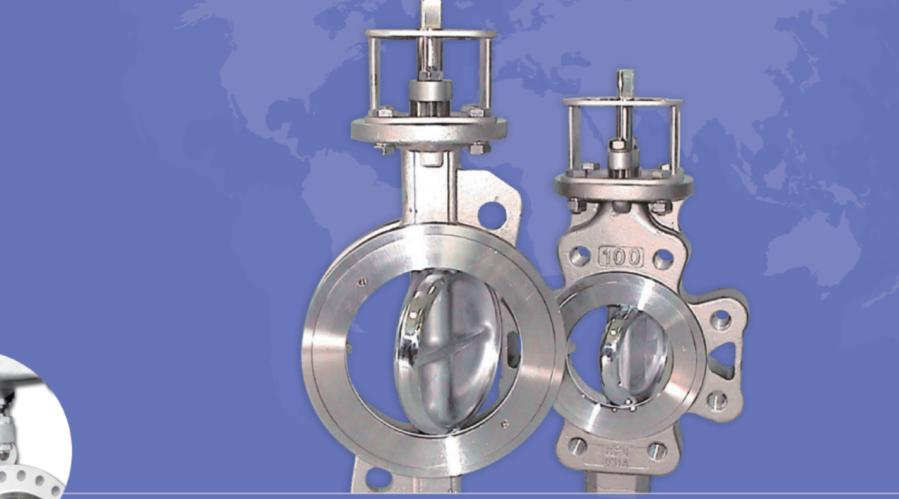




Geko Fluid Control GmbH





Geko Union/Geko Fluid Control GmbH

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High Performance Butterfly Valve





Experience Responsibility and Innovation Technology



Premier Manufacturer of Flow Control & Automation Products

GEKO Valves & Controls, born in Germany, is a well-known professional manufacturer of pneumatic & electric control valve and actuators. Building upon professional production capability for more than 60 years and extensive field experience, with sophisticated and most advanced fabrication process which can provide an excellent basis on optimum solutions to any specific requirements by the user. we offer industrial ball valves, gate valves, globe valves, butterfly valves, check valves. Serve

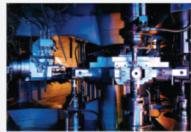
industries like Chemical, Oil & Gas, Refining, Pulp & Paper, Mining & Minerals, Power Generation Industries, etc. We have become one of the pioneers of global manufacturers of flow control valve.

Valve and actuator units supplied by Geko Valves&Controls are of superior quality and come up higher standard. They improve both performance and safety of your installation, besides, they reduce pollution to the environment and mankind.

We are a global enterprise, have plants in Germany, Netherland, Korea, China mainland as well as China Taiwan .









Geko Fluid Control GmbH

SPECIFICATIONS

> scope

> ALLICABLE STANDARDS

ANSI B16.5 ANSI B16.14

ANSI/FCI 70-2 MSS SP-25

MSS SP-61 MSS SP-68

API 598 API 609

API607 PED

ISO5208 ISO 5211

ISO 5752 ISO 9001

> DESIGN FEATURES

1. Double offset design for better performance 2. Bi-directional seal, non-leakage seat design

3. Low-friction bushing in up and down 4. Anti-static shaft

5. Special seat ring without screw end of sealing face 6. Anti-thrust washer for keeping disc center

> FEATURES

The design has been rigorously tested to meet industry performance requirements.

The fully supported one piece shaft with heavy duty metal bearings ensure perfect alignment of the seat and disc, for trouble free performance and long service life.

> MATERIALS

- 1. Stainless steel vavle: BODY-ASTM A351 CF8 CF8M DISC-ASTM A351 CF8 CF8M
- 2. Carbon valve: BODY-ASTM A105 CF8 A216 WCB DISC-ASTM A351 CF8 CF8M
- 3. Shaft: ASTM A564 Type 630(17-4PH) A182 F304 A182 F316



GKV-810 MATERIALS

Double-offset butterfly valve

ANSI CLASS 150LB ISO PN10~PN25 JIS 10K、16K、20K

Construction Details

Stem (blowout proof): stainless steel stem with high strength, and good corrosion resistance. Designed per ISO 5211 standard.

Stem Packing:V-ring PTFE provides positive sealing.

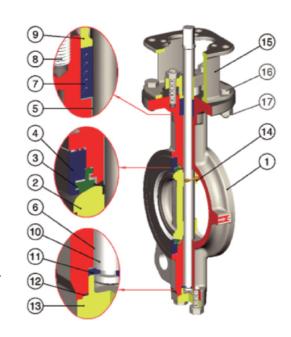
Seat Retainer: Reliable multi-bolt retainer holdsand supports the seat.

Standard valves are suitable for bi-directional dead-end service at the full pressuretemperature rating of the valve.

Body: Robust one-piece casting in WCB carbon steel or CF8M stainless steel. Available in wafer & lug style.

Bearing: Full length provides maximum stem support.

Thrust Ring: Centers the disc. Ensures tight shutoffand long service life.



NO.	Name	Materials	Spe	cification	Remark
NO.	Name	Materials	JIS	ASTM	Remark
		CARBON STEEL	SC480	A218 Gr. WCB	
			SCS 13A	A351 Gr. CF8	
1	BODY	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
			SCS 13A	A351 Gr. CF8	
2	DISC	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	Disc edge has to be hard chrome
_	2.00		SCS 16A	A351 Gr. CF3M	plated when equipped RTFE seat
		PTFE			-29℃~160℃
3	TEFLON SEAT	PTFE+15%GLASS			-29°C~180°C
		PTFE+15%GRAPHITE			-29℃~210℃
			SCS 13A	A351 Gr. CF8	
4	RETAINER	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
5	BUSHING	PTFE+316SS			
6	BUSHING	PTFE+316SS			
		PTFE			-29°C~160°C
7	PACKING	PTFE+15%GRAPHITE			-29℃~210℃
8	STUD	STAINLESS STEEL	SUS 304	Al93 Gr. B8	
_	01.4415	07400 500 07551	SCS 13A	A351 Gr. CF8	
9	GLAND	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SUS 410	Al82 Gr. F6a	
			SUS 304	Al82 Gr. F304	Stem has to be hard chrome plated
10	STEM	STAINLESS STEEL	SUS 316	Al82 Gr. F316	When equipped with PTFE +
			SUS 630	A564 Gr. F630	Graphite gland packing
			XM-19	A479 Gr. XM-19	
11	THRUST RING	STAINLESS STEEL	SUS 316	A240 Gr. 316	
12	SEAL	PTFE			
			SCS 13A	A351 Gr. CF8	
40		STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
13	BOTTOM COVER		SCS 16A	A351 Gr. CF3M	
		CARBON STEEL	SC480	A216 Gr. WCB	
14	PIN	STAINILESS STEEL	SUS 316	Al82 Gr. F316	
		DUCTILE IRON	FCD 450	A536 Gr. 65-45-12	For 24" valve only
15	YOKE	CARBON STEEL	SC480	A216 Gr. WCB	Regualr
		STAINLESS STEEL	SCS 13A	A351 Gr. CF8	Option
16	BOLT	STAINLESS STEEL	SUS 304	A193 Gr. B8	
17	NUT	STAINLESS STEEL	SUS 304	A194 Gr. 8	



GKV-820 MATERIALS Double-offset butterfly valve

ANSI CLASS 150L ISO PN10~PN25 JIS 10K、16K

Construction Details

Stem (blowout proof): stainless steel stem with high strength, and good corrosion resistance. Designed per ISO 5211 standard.

Stem Packing: Graphite provides positive sealing for fire-safe.

Seat Retainer: Reliable multi-bolt retainer holdsand supports the seat.

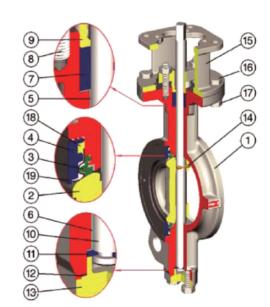
Standard valves are suitable for bi-directional dead-end service at the full pressuretemperature rating of the valve.

Body: Robust one-piece casting in WCB carbon steel or CF8M stainless steel. Available in wafer & lug style.

Fire-proof seat: Bi-directional seal soft seat for non-leakage.

Bearing: Full length provides maximum stem support.

Thrust Ring: Centers the disc. Ensures tight shutoffand long service life.



NO	Name	Matariala	Specification	on	Damed
NO.	Name	Materials	JIS	ASTM	Remark
		CARBON STEEL	SC480	A218 Gr. WCB	
	2007		SCS 13A	A351 Gr. CF8	
1	BODY	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
			SCS 13A	A351 Gr. CF8	Disc edgeequipped with hard
2	DISC	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	chrome plated
			SCS 16A	A351 Gr. CF3M	
	5:55 0155 0515	PTFE			-29°C~160°C
3	FIRE-SAFE SEAT	RPTFE			15% Glass fibre contained −29°C~160°C
		RPTFE			15% Graphite contained −29°C~160°C
			SCS 13A	A351 Gr. CF8	
4	RETAINER	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
5	BUSHING	PTFE+316SS			
6	BUSHING	PTFE+316SS			
7	PACKING	GRAPHITE			
8	STUD	STAINLESS STEEL	SUS 304	Al93 Gr. B8	
	61.4445	074111 500 07551	SCS 14A	A351 Gr. CF8	
9	GLAND	STAINLESS STEEL	SCS 16A	A351 Gr. CF3M	
			SUS 410	Al82 Gr. F6a	
			SUS 304	Al82 Gr. F304	1
10	STEM	STAINLESS STEEL	SUS 316	Al82 Gr. F316	Stem equipped with hard
			SUS 630	A564 Gr. F630	chrome plated
			XM-19	A479 Gr. XM-19	
11	THRUST RING	STAINLESS STEEL	SUS 316	A240 Gr. 316	
12	SEAL	GRAPHITE			
			SCS 13A	A351 Gr. CF8	
40	DOTTO 1 4 00 1/50	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
13	BOTTOM COVER		SCS 16A	A351 Gr. CF3M	
		CARBON STEEL	SC480	A216 Gr. WCB	
14	PIN	STAINLESS STEEL	SUS 316	Al82 Gr. F316	
		DUCTILE IRON	FCD 450	A536 Gr. 65-45-12	For 24" valve only
15	YOKE	CARBON STEEL	SC480	A216 Gr. WCB	Regualr
		STAINLESS STEEL	SCS 13A	A351 Gr. CF8	Option
16	BOLT	STAINLESS STEEL	SUS 304	A193 Gr. B8	
17	NUT	STAINLESS STEEL	SUS 304	A194 Gr. 8	
18	PACKING	GRAPHITE			
19	METAL SEAT	STAINLESS STEEL	SUS 316	A240 Gr. 316	Nitrided



GKV-830 MATERIALS Double-offset butterfly valve

Construction Details

Stem (blowout proof): stainless steel stem with high strength, and good corrosion resistance. Designed per ISO 5211 standard.

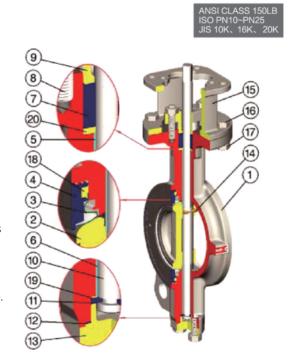
Stem Packing: Graphite provides positive sealing.

Seat Retainer: Reliable multi-bolt retainer holdsand supports the seat. Standard valves are suitable for bi-directional dead-end service at the full pressuretemperature rating of the valve.

Body: Robust one-piece casting in WCB carbon steel or CF8M stainless steel. Available in wafer & lug style.

Bearing: Full length provides maximum stem support.

Thrust Ring: Centers the disc. Ensures tight shutoffand long service life.



	110	****	Specification	n	5
	NO. Name	Materials	JIS	ASTM	Remark
		CARBON STEEL	SC480	A218 Gr. WCB	
	2021		SCS 13A	A351 Gr. CF8	
1	BODY	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
			SCS 13A	A351 Gr. CF8	
2	DISC	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	Disc edgeequipped with hard
			SCS 16A	A351 Gr. CF3M	chrome plated
3	METAL SEAT	STAINLESS STEEL	SCS 316	A240 Gr. 316	
			SCS 13A	A351 Gr. CF8	
4	RETAINER	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
5	BUSHING	STAINLESS STEEL	SCS 316	A182 Gr. F316	
6	BUSHING	STAINLESS STEEL	SCS 316	A182 Gr. F316	
7	PACKING	GRAPHITE			
8	STUD	STAINLESS STEEL	SUS 304	Al93 Gr. B8	
9	CLAND	OTAINII ECO OTEEI	SCS 13A	A351 Gr. CF8	
9	GLAND	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SUS 410	Al82 Gr. F6a	
			SUS 304	Al82 Gr. F304	Stem has to be hard chrome plate
10	STEM	STAINLESS STEEL	SUS 316	Al82 Gr. F316	When equipped with PTFE +
			SUS 630	A564 Gr. F630	Graphite gland packing
			XM-19	A479 Gr. XM-19	
11	THRUST RING	STAINLESS STEEL	SUS 316	A240 Gr. 316	
12	SEAL	GRAPHITE			
			SCS 13A	A351 Gr. CF8	
13	BOTTOM COVER	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
13	BOTTOM COVER		SCS 16A	A351 Gr. CF3M	
		CARBON STEEL	SC480	A216 Gr. WCB	
14	PIN	STAINILESS STEEL	SUS 316	Al82 Gr. F316	
		DUCTILE IRON	FCD 450	A536 Gr. 65-45-12	For 24" valve only
15	YOKE	CARBON STEEL	SC480	A216 Gr. WCB	Regualr
		STAINLESS STEEL	SCS 13A	A351 Gr. CF8	Option
16	BOLT	STAINLESS STEEL	SUS 304	A193 Gr. B8	
17	NUT	STAINLESS STEEL	SUS 304	A194 Gr. 8	
18	PACKING	GRAPHITE	SUS 316	A240 Gr. 316	
19	WASHER	STAINLESS STEEL	SUS 316	A240 Gr. 316	
20	WASHER	STAINLESS STEEL	SUS 316	A240 Gr. 316	



SPECIFICATIONS



ProCentric Double Offset

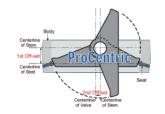
The first offset is between the center of stem and the center of theseat. The second offset is between the center of the valve and the center of the stem. This offset allows the disc to swing free of the seat in the open position. This procentric action reduces seat wear, and minimizes seating torque to create an eccentric seating action of high cycle applications.

Lip-type seal

Pressure assisted reinforced seats offer bi-directional bubble tight close off.

Fire Safe Seat

The seat ring is engineered to seal off pipeline flow in the event of a fire. In normal operation the seat with metal back up ring allows bi-directional bubble tight close off up to the full ANSI rating. In the event of a fire, if the fire destroys any part of the PTFE encapsulated seat, the inconel metal back up ring will stay in constant contact with the disc to provide a metal to metal back up seal. In emergency fire conditions, the line pressure is immediately reduced and the area is foamed to extinguish the fire.





SEAT RATING (psig)

Size					Valve C	pen Deg	ree				Temper	rature	Class	s 150
inch	mm	10°	20°	30°	40°	50°	60°	70°	80°	90°	"F	"C	PTFE	RPTFE
2.5"	65	1	11	27	40	60	83	106	133	140	-20 to 100	-29 to 38	285	285
3"	80	2	20	50	73	110	154	200	250	260	150	68	273	273
4"	100	4	32	80	120	180	250	320	400	420			270	273
5"	125	7	55	140	200	300	430	550	680	720	200	93	260	260
6"	150	11	90	230	340	510	710	910	1140	1200				
8"	200	20	150	390	560	850	1190	1520	1900	2000	250	121	245	245
10"	250	30	240	600	870	1310	1840	2360	2940	3100	300	149	230	230
12"	300	40	360	920	1330	2000	2800	3600	4500	4750		140	200	
14"	350	55	450	1130	1640	2500	3500	4500	5500	5850	350	177	140	215
16"	400	75	650	1600	2300	3500	4900	6300	7850	8300				
18"	450	95	800	2000	2900	4400	6100	7900	9900	10400	400	204	50	100
20"	500	125	1000	2700	3900	5900	8200	10500	13000	13800				
24"	600	200	1700	4400	6300	9500	13300	17000	21300	22500	450	232	0	0



TORQUE CHART



GKV-810/820/830 WAFER TYPE DIMENSION



GKV-810 TORQUE DATA(KG-M) INCLUDING 30% SAFETY FACTOR

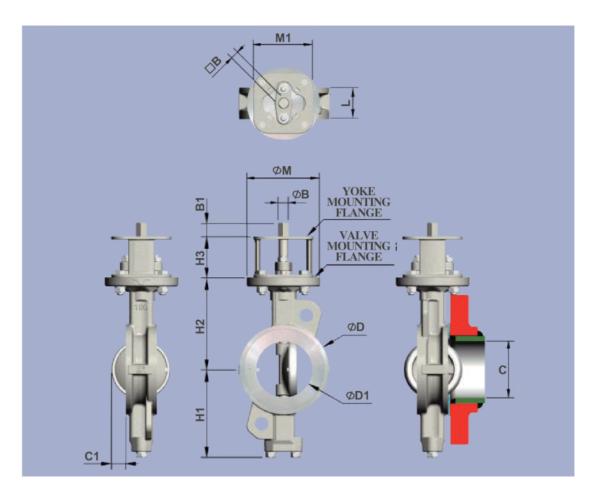
	Size			Differential pres	sure (kg/cm^2)		
		0	5	10	15	20	25
2.5"	65	0.3	0.5	1.0	2.0	3.0	4.0
3"	80	0.5	1.0	2.0	3.0	4.5	6.0
4"	100	1.0	2.0	4.0	5.0	6.5	8.0
5"	125	2.0	4.5	6.5	9.0	11.0	13.0
6"	150	4.5	7.0	9.5	12.0	15.0	19.0
8"	200	7.0	11.0	15.0	18.5	21.5	24.0
10"	250	13.0	19.0	25.0	30.0	35.0	40.0
12"	300	20.0	30.0	40.0	50.0	58.0	65.0
14"	350	30.0	55.0	80.0	100.0	120.0	135.0
16"	400	45.0	70.0	100.0	120.0	140.0	160.0
18"	450	60.0	90.0	125.0	150.0	170.0	195.0
20"	500	85.0	120.0	150.0	175.0	210.0	240.0
24"	600	175.0	240.0	315.0	380.0	435.0	475.0

GKV-820 TORQUE DATA (KG-M) INCLUDING 30% SAFETY FACTOR

	Size			Differential pres	sure (kg/cm^2)		
		0	5	10	15	20	25
2.5"	65	3	4	5	7	8	
3"	80	4	5	7	8	9	
4"	100	6	7	8	10	13	
5"	125	12	14	16	17	18	
6"	150	15	20	23	27	30	
8"	200	18	24	30	36	43	
10"	250	20	28	35	42	53	
12"	300	28	40	56	70	88	
14"	350	47	74	85	101	122	
16"	400	67	86	105	123	140	
18"	450	86	98	126	145	160	
20"	500	110	120	160	200	250	
24"	600	130	150	185	250	320	

GKV-830 TORQUE DATA (KG-M) INCLUDING 30% SAFETY FACTOR

	Size			Differential pres	sure (kg/cm^2)		
		0	5	10	15	20	25
2.5"	65	4	5	8	10	13	
3"	80	5	7	9	12	14	
4"	100	8	10	12	16	18	
5"	125	10	13	14	17	20	
6"	150	14	16	17	18	21	
8"	200	21	26	30	34	38	
10"	250	25	29	33	36	40	
12"	300	26	40	51	60	69	
14"	350	50	69	88	101	125	
16"	400	65	84	104	127	150	
18"	450	80	99	122	153	173	
20"	500	110	120	160	200	250	
24"	800	130	150	185	250	320	



Unit:mm

Size	Face									Mou	unting	flange					Shoft nine	
	to			Dir	mensio	ons				(ISO 52	211)		Sh	naft en	d	Shaft pipe	Weight
	Face								Va	lve		Yoke					fiange	
Mm	L	H1	H2	НЗ	φD	φD1	С	C1	Type \$M Type M1 \$\phi\$			φВ	□В	B1	*	kg		
65	46	110	125	60	108	63	62.3	15	F07	90	F07	F05	70	14	11	18	ABCDEFGHKMNP	4.5
80	47	128	140	70	126	78	78	22	F10	125	F10	F07	102	18	14	23	ABCDEFGHKMNP	7
100	53	150	157	70	153	95	93	25	F10	125	F10	F07	102	18	14	23	ABCDEFGHKMNP	9
125	57	163	170	70	184	118	120	36	F10	125	F10	F07	102	22	17	23	ABCDEFGHKMNP	12
150	56	176	185	70	212	143	149	50	F10	125	F10	F07	102	22	17	23	ACDEFKMNP	13.5
200	62	206	220	80	268	188	196	70	F12	150	F12	F10	125	25	19	28	ACDEFKMNP	22
250	68	238	260	80	326	236	243	90	F12	150	F12	F10	125	28	22	28	ACDEFKMNP	32
300	78	269	290	100	375	282	289	106	F14	175	F14	F12	160	35	27	37	ACDEFKMNP	48
350	78/92	306	326	100	416	322	329	125	F14	175	F14	F12	160	36	27	37	ACDEFKMNP	66
400	102	342	370	120	476	371	377	140	F16	210	F16	F14	195	48	36	47	ACDEFKMNP	107
450	114	370	395	120	534	418	423	157	F16	210	F16	F14	195	48	36	47	ACDEFKMNP	130
500	127	399	430	120	588	466	471	177	F16	210	F16	F14	195	60	46	56	ACDEFKMNP	163
600	154	455	490	150	692	570	572	210	F25	300	F25	F16	300	60	46	56	ACDEFKMNP	278
, A:1	50LB	B:30	00LB	C:PI	V10	D:PN	16	E:PN2	0 F	:PN25	G:	PN40	H:P	N50	K:10	<		
*M:1	6K	N:B.S.10TABLE E P:20K									Pine limit s	size > C						



GEKO

GKV-810/820/830 WAFER TYPE DIMENSION











Size 65~80(2.5"~3")

Size 100~125(4"~5")

Size 150~300(6"~12")





Size 350~500(14"~20")

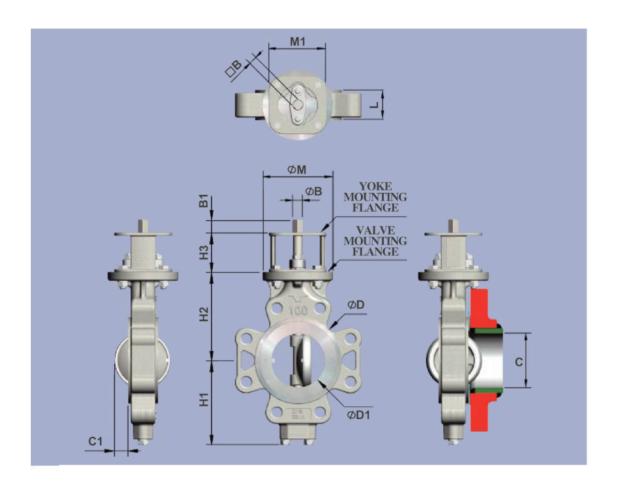
Unit:inch

Size	Face									Mou	nting fla	nge					
	to			Di	mensio	ns				(18	SO 521	1)		5	Shaft en	d	Weight
	Face								Va	alve		Yoke					
inch	L	H1	H2	НЗ	φD	φD1	C	C1	Туре	φМ	Ту	ре	M1	φВ	□В	B1	LBS.
2.5	1.81	4.33	4.92	2.36	4.25	2.48	2.45	0.59	F07	3.54	F07	F05	2.78	0.55	0.43	0.71	10
3	1.85	5.04	5.51	2.76	4.96	3.07	3.07	0.87	F10	4.92	F10	F07	4.02	0.71	0.55	0.91	15
4	2.09	5.91	6.18	2.76	6.02	3.74	3.66	0.98	F10	4.92	F10	F07	4.02	0.71	0.55	0.91	20
5	2.24	6.42	6.69	2.76	7.24	4.65	4.72	1.42	F10	4.92	F10	F07	4.02	0.87	0.67	0.91	26
6	2.20	6.93	7.28	2.76	8.35	5.63	5.87	1.97	F10	4.92	F10	F07	4.02	0.87	0.67	0.91	30
8	2.44	8.11	8.66	3.15	10.55	7.39	7.72	2.76	F12	5.91	F12	F10	4.90	0.98	0.75	1.10	48
10	2.68	9.37	10.24	3.15	12.83	9.27	9.57	3.54	F12	5.91	F12	F10	4.92	1.10	0.87	1.10	70
12	3.07	10.59	11.42	3.94	14.76	11.10	11.38	4.17	F14	6.89	F14	F12	6.30	1.38	1.06	1.46	106
14	3.07/3.62	12.05	12.83	3.94	16.38	12.68	12.95	4.92	F14	6.89	F14	F12	6.30	1.42	1.06	1.46	145
16	4.02	13.46	14.57	4.72	18.74	14.61	14.84	5.51	F16	8.27	F16	F14	7.68	1.89	1.42	1.85	236
18	4.49	14.57	15.55	4.72	21.02	16.46	16.65	6.18	F16	8.27	F16	F14	7.68	1.89	1.42	1.85	286
20	5.00	15.71	16.93	4.72	23.15	18.35	18.54	6.97	F16	8.27	F16	F14	7.68	2.36	1.81	2.20	359
24	6.06	17.91	19.29	5.91	27.24	22.44	22.52	8.27	F25	11.81	F25	F16	11.81	2.36	1.81	2.20	612

Pipe limit size > C

GKV-813/823/833 LUG TYPE DIMENSION





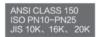
Unit:mm

Size	Face to Face			Din	nensio	ns			Va		nting fla	_		S	haft er	nd	Suitable pipe fiange	Weight
mm	L	H1	H2	НЗ	φD	φ D1	С	C1	Туре	φМ	Ту	pe	M1	φВ	□В	B1	*	kg
65	46	110	125	60	108	63	62.3	15	F07	90	F07	F05	70	14	11	18	AEKN	5.5
80	47	128	140	70	126	78	78	22	F10	125	F10	F07	102	18	14	23	AEN	8.5
100	53	150	157	70	153	95	93	25	F10	125	F10	F07	102	18	14	23	ABCDEFGHKMNP	14
125	57	163	170	70	184	118	120	36	F10	125	F10	F07	102	22	17	23	ABCDEFGHKMNP	18
150	56	176	185	70	212	143	149	50	F10	125	F10	F07	102	22	17	23	ACDEFKN	19.5
200	62	206	220	80	268	188	196	70	F12	150	F12	F10	125	25	19	28	ACEN	31
250	68	238	260	80	326	236	243	90	F12	150	F12	F10	125	28	22	28	ACDEFKMNP	47
300	78	269	290	100	375	282	289	106	F14	175	F14	F12	160	35	27	37	ACDEN	67
350	78/92	306	326	100	416	322	329	125	F14	175	F14	F12	160	36	27	37	AEN	81
400	102	342	370	120	476	371	377	140	F16	210	F16	F14	195	48	36	47	ACDEFKMP	143
450	114	370	395	120	534	418	423	157	F16	210	F16	F14	195	48	36	47	AEN	163
500	127	399	430	120	588	466	471	177	F16	210	F16	F14	195	60	46	56	ACDEFKMP	230
600	154	455	490	150	692	570	572	210	F25	300	F25	F16	300	60	46	56	ACDEF	377
*	A:150LB B:300LB C:PN10 D:PN16 E: M:16K N:B.S.10TABLE E P:20K								20	F:PN2	5 (G:PN4	0 H	H:PN5	0 k	<:10K	Pipe limit	size >C





GKV-813/823/833 LUG TYPE DIMENSION

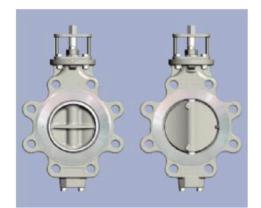








Size 100~125(4"~5")



Size 150~200(6"~8")



Size 250~350(10"~14")



Size 400~450(16"~18")



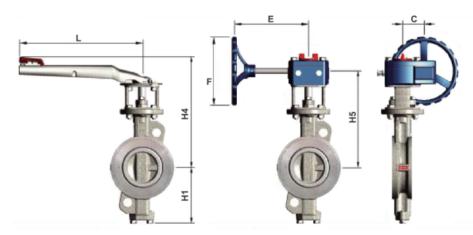
Size 500~600(20"~24")

Unit:inch

Size	Face									Mou	inting fla	ange					
	to			Di	imensio	ns				(18	SO 521	1)		5	Shaft en	d	Weight
	Face								Va	alve		Yoke					
inch	L	H1	H2	НЗ	φD	φD1	C	C1	Туре	φM	Ту	ре	M1	φВ	□В	B1	LBS.
2.5	1.81	4.33	4.92	2.36	4.25	2.48	2.45	0.59	F07	3.54	F07	F05	2.78	0.55	0.43	0.71	12
3	1.85	5.04	5.51	2.76	4.96	3.07	3.07	0.87	F10	4.92	F10	F07	4.02	0.71	0.55	0.91	19
4	2.09	5.91	6.18	2.76	6.02	3.74	3.66	0.98	F10	4.92	F10	F07	4.02	0.71	0.55	0.91	31
5	2.24	6.42							F10	4.92	F10	F07	4.02	0.87	0.67	0.91	40
6	2.20	6.93							F10	4.92	F10	F07	4.02	0.87	0.67	0.91	43
8	2.44	8.11	8.66	3.15	10.55	7.39	7.72	2.76	F12	5.91	F12	F10	4.90	0.98	0.75	1.10	68
10	2.68	9.37	10.24	3.15	12.83	9.27	9.57	3.54	F12	5.91	F12	F10	4.92	1.10	0.87	1.10	104
12	3.07	10.59	11.42	3.94	14.76	11.10	11.38	4.17	F14	6.89	F14	F12	6.30	1.38	1.06	1.46	148
14	3.07/3.62	12.05	12.83	3.94	16.38	12.68	12.95	4.92	F14	6.89	F14	F12	6.30	1.42	1.06	1.46	178
16	4.02	13.46	14.57	4.72	18.74	14.61	14.84	5.51	F16	8.27	F16	F14	7.68	1.89	1.42	1.85	315
18	4.49	14.57	15.55	4.72	21.02	16.46	16.65	6.18	F16	8.27	F16	F14	7.68	1.89	1.42	1.85	359
20	5.00	15.71	16.93	4.72	23.15	18.35	18.54	6.97	F16	8.27	F16	F14	7.68	2.36	1.81	2.20	507
24	6.06	17.91	19.29	5.91	27.24	22.44	22.52	8.27	F25	11.81	F25	F16	11.81	2.36	1.81	2.20	830
Pipe	limit si	ze >C															

LEVER & GEAR OPERATED





				Lever	operato	r			Gear	operator		
Si	ize	Operator	Dimer	nsions	Weig	ht(kg)		Dime	nsions		Weig	ght(kg)
mm	inch	Series no.	H4	L	Wafer	Lug	H5	С	E	F	Wafer	Lug
65	2.5	L7A	257	200	5.2	6.2	-	_	-	-	-	_
00	2.5	C07	-	-	-	_	222	41	155	150	7.8	8.8
80	3	L7B	282	250	7.8	9.3	_	_	_	-	_	_
00	3	C07	-	-	_	_	247	41	155	150	10.3	11.8
100	4	L7B	299	250	9.8	14.8	_	-	-	-	-	_
100	4	C10	-	_	_	_	296.5	63	195	200	16.5	21.5
125	125 5	L10	318	355	13.6	19.6	_	_	_	-	_	-
125	5	C10	-	-	-	-	281.5	63	195	200	19.5	25.5
150	6	L10	333	355	15.1	21.1	_	_	_	-	_	_
150	0	C10	-	_	-	_	296.5	63	195	200	21	27
200	8	L10	378	335	23.6	32.6	-	-	-	-	-	-
200	0	C12	-	-	_	-	341	61	232	310	31	40
250	10	C12	-	-	-	_	381	61	232	310	41	56
300	12	C14	-	-	-	-	443	81	280	400	70	89
350	14	C14	-	-	-	-	479	81	280	400	88	103
400	16	A2	-	-	-	-	546	123	307	400	142	178
450	18	A2	-	-	-	-	571	123	307	400	165	198
500	20	A2	-	_	-	_	606	123	307	400	198	265
600	24	A3+S3	-	-	-	-	785	160	370	400	387	486

			Lever operator						Gear	operato	Handwheel	Mounting flange (ISO 5211)				
Siz	ze	Operator	Dimer	Dimensions Weight				nsions	_	Weight(lb)		turns ON/OFF	Type	PC		
mm	inch	Series no.	H4	L	Wafer	Lug	H5	С	E	F	Wafer	Lug	N		mm	inch
65	2.5	L7A	10.19	7.87	11	14	_	_	_	-	_	_	-	F07	70	2.75
		C07	-	-	-	-	8.74	1.61	6.10	5.91	17	19	10			
80	3	L7B	11.10	9.84	17	20	_	-	_	_	_	-	_	F07	70	2.75
		C10	-	-	-	_	9.72	1.61	6.10	5.91	23	26	10			
100	4	L7B	11.77	9.84	22	33	-	_	_	_	-	-	_	F10	102	4.02
		C10	-	_	-	_	11.67	2.48	7.68	7.87	36	47	9			
125	5	L10	12.52	13.98	30	43	_	-	_	_	-	-	_	F10	102	4.02
		C10	-	_	1	-	11.08	2.48	7.68	7.87	43	56	9			
150	6	L10	13.11	13.98	33	46	_	-	_	_	_	-	_	F10	102	4.02
		C10	-	-	_	_	11.67	2.48	7.68	7.87	46	59	9			
200	8	L10	14.88	13.98	52.03	71.87	_	-	_	_	-	-	_	F12	125	4.92
		C12	_	-	_	_	13.43	2.40	9.13	12.20	68	88	9.5			
250	10	C12	-	-	-	-	15.00	2.40	9.13	12.20	90	123	9.5	F12	125	4.92
300	12	C14	-	-	-	-	17.44	3.19	11.02	15.75	154	196	12	F14	140	5.51
350	14	C14	-	-	-	_	18.86	3.19	11.02	15.75	194	227	12	F14	140	5.51
400	16	A2	-	-	-	-	21.50	4.84	12.09	15.75	302	381	17.5	F16	165	6.50
450	18	A2	-	-	-	_	22.48	4.84	12.09	15.75	352	425	17.5	F16	165	6.50
500	20	A2	-	_	-	-	23.86	4.84	12.09	15.75	425	573	17.5	F16	165	6.50
600	24	A3+S3	-	_	ı	-	30.91	6.30	14.57	15.75	760	978	52.5	F25	254	10.00

PTEF + A240 316(GKV—820 ONLY)

PTEF + 15%GRAPHITE+A240 316

PTEF + 15%FIBER + A240 316

INCONEL 718 (GKV-830 ONLY)

FLANGE DRILLING

(Please refer to brochure)

A240 316 (GKV-830 ONLY)

(GKV-820 ONLY)

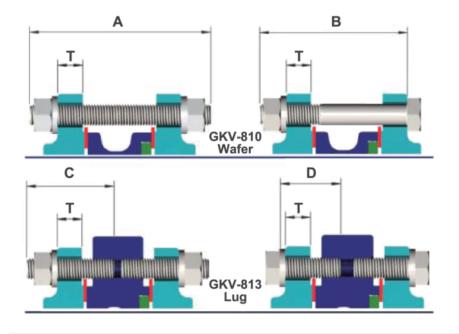
(GKV-820 ONLY)

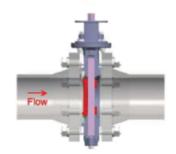




BOLTING & GASKET FOR INSTALLATION







The seals flow can be executed in both directions. The following advantages can be assured while the suggasted flow directions is used.

• Minimal start-up torque.

- Reduced seat wear.
- No direct contact between the fluid and the seat.

Siz	ze			PN	110					Р	N16					Pl	N20					PI	N25		
mm	inch	Bolt Size	Α	В	С	D	Т	Bolt Size	Α	В	С	D	Т	Bolt Size	Α	В	С	D	Т	Bolt Size	Α	В	С	D	Т
65	2.5	M16	130	120	65	45	20	M16	130	120	65	45	20	M16	135	125	70	50	23	M16	135	125	70	50	22
80	3	M16	135	120	65	45	20	M16	135	120	65	45	20	M16	140	130	70	50	24	M16	140	130	70	50	24
100	4	M16	145	130	70	50	22	M16	145	130	70	50	22	M16	145	135	75	55	24	M20	155	140	80	55	24
125	5	M16	145	135	75	50	22	M16	145	135	75	50	22	M20	155	140	75	55	24	M24	175	155	85	60	26
150	6	M20	160	140	80	55	24	M20	160	140	80	55	24	M20	160	145	80	55	26	M24	175	155	90	60	28
200	8	M20	160	145	80	55	24	M20	160	145	80	55	24	M20	170	155	85	60	29	M24	185	165	90	65	30
250	10	M20	175	160	85	60	26	M24	185	165	85	60	26	M24	195	175	95	70	31	M27	200	180	100	70	32
300	12	M20	185	170	90	65	26	M24	200	180	90	70	28	M24	205	185	105	70	32	M27	215	195	110	75	34
350	14	M20	185	170	90	65	26	M24	200	185	90	70	30	M27	220	195	105	75	35	M30	230	205	115	80	38
400	16	M24	220	200	110	70	26	M27	235	215	110	80	32	M27	245	225	125	85	37	M33	265	240	130	95	40
450	18	M24	235	215	115	75	28	M27	265	240	115	90	40	M30	270	240	130	95	40	M33	290	265	145	105	48
500	20	M24	245	230	125	75	28	M30	295	270	125	100	44	M30	290	265	140	95	43	M33	305	280	155	105	48
600	24	M27	290	270	145	85	34	M33	345	320	145	110	54	M33	335	310	165	105	48	M36	360	330	180	120	58

Size ANSI B16.5 150LB						JIS	S10K			JIS 16K&20K					B.S.10 TABLE E										
mm		Bolt Size	Α	В	С	D	Т	Bolt Size	Α	В	С	D	Т	Bolt Size	Α	В	С	D	Т	Bolt Size	Α	В	С	D	Т
65	2.5	5/8	135	125	70	50	22	M16	130	115	65	45	18	M16	130	115	65	45	18	5/8	120	110	60	40	14
80	3	5/8	140	130	70	50	24	M16	130	115	65	45	18	M20	140	125	70	50	20	5/8	120	110	60	40	14
100	4	5/8	145	135	75	55	24	M16	135	120	70	50	18	M20	150	135	75	55	22	5/8	135	120	65	45	17
125	5	3/4	160	145	80	55	24	M20	150	135	75	55	20	M22	160	140	80	55	22	5/8	140	125	70	50	17
150	6	3/4	160	145	80	55	25	M20	155	140	80	55	22	M22	160	145	80	55	24	3/4	145	130	70	50	17
200	8	3/4	170	155	85	60	28	M20	160	140	80	55	22	M22	170	150	85	60	26	3/4	152	135	75	50	19
250	10	7/8	185	170	95	65	30	M22	175	155	85	60	24	M24	190	170	95	65	28	3/4	165	150	85	55	22
300	12	7/8	200	180	100	70	32	M22	185	165	90	60	24	M24	200	185	100	70	30	7/8	185	170	95	65	25
350	14	1	215	195	105	75	35	M22	190	170	95	65	26	M30	220	200	110	80	34	7/8	195	175	95	70	29
400	16	1	240	220	120	80	37	M24	220	205	110	70	28	M30	255	230	130	85	38	7/8	225	205	110	75	32
450	18	11/8	265	240	130	90	40	M24	240	220	120	75	30	M30	270	245	135	90	40	7/8	240	225	120	80	35
500	20	11/8	285	260	140	90	43	M24	250	230	125	75	30	M30	290	265	145	95	42	7/8	260	245	130	80	38
600	24	11/4	330	305	165	100	48	M30	295	270	145	85	32	M36	335	310	170	105	46	11/8	325	300	165	100	48

MATERIAL CHART



T6

G6

F6

36

IC

CODE

GKV-8	0	800	13	14	34	TL	Α	E
TYPE	END	SIZE	BODY	DISC	SHAFT	SEAT	FLANGE	OPTION

TYPE	CODE	SHAFT MATERIAL	CODE
High Performance Butterfly valve	GKV-810/813	A182 F6a	10
(Teflon Seat)	OKV-010/013	A182 F304	34
High Performance Butterfly valve	0101 0001000	A182 F316	36
(Teflon + SS316 Seat Fire Sale)	GKV-820/823	A182 F316L	6L
High Performance Butterfly valve	0101.0001000	A564 630	63
	GKV-830/833	XM—19	XM
ENDCONNECTION	CODE	SEAT MATERIAL	CODE
WAFER	0	PTEF (GKV-810 ONLY)	TL
LUG	3	PTEF + 15% GRAPHITE (GKV-810 ONLY)	TG
FLANGE (Short Body)	6	PTEF + 15% GLASS FIBER (GKV-810 ONLY)	TF

CODE

WB

13

14

16

FLANGE (Long Body)	7
SIZE	CODE
DN 65 / 2-1/2"	006
DN 80/3"	008
DN 100 / 4"	010
DN 125 / 5"	012
DN 150 / 6"	015
DN 200 / 8"	020
DN 250 / 10"	025
DN 300 / 12"	030
DN 350 / 14"	035
DN 400 / 16"	040
DN 450 / 18"	045
DN 500 / 20"	050
DN 600 / 24"	060

ASME B16.5 150LB	Α
ASME B16.5 300LB	В
ISO 7005 -1 PN10	С
ISO 7005 -1 PN16	D
ISO 7005 -1 PN20	E
ISO 7005 -1 PN25	F
ISO 7005 -1 PN40	G
ISO 7005 -1 PN50	Н
JIS 10K	K
JIS 16K	M
JIS 20K	Р
B.S.10Table E	N

DISC MATERIAL	CODE
A351 CF8	13
A351 CF8M	14
A351 CF3M	16

BODY MATERIAL

A216 WCB

A351 CF8

A351 CF8M

A351 CF3M

OPTION	CODE
Emission Test	E
WORK TEMP. >250°C (GKV- 830 ONLY)	Н
Internal Polished	Р



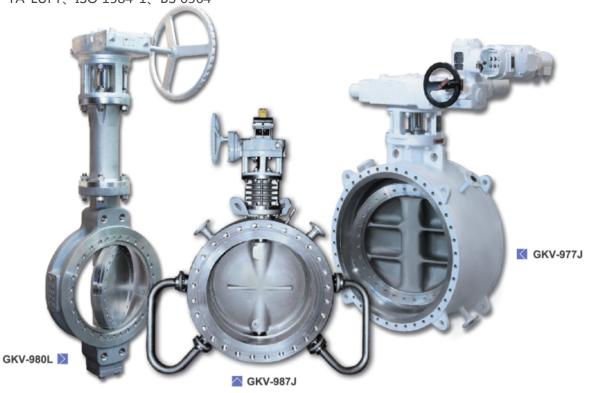


GKV-9

Triple-offset butterfly valve Features:

- True triple offset geometry
- Fully bi-directional zero-leakage* shutoff
- Field replaceable metal seat
- Life cycle tested as a bubble-tight bi-directional valve
- Compliance and Specifications: TA-LUFT、ISO 1584-1、BS 6364

- Standard bearing seals
- Self-centering disc
- Available in a wide range of configurations: lug, short (ISO), and long pattern
- Carbon and stainless steel standard;
 other materials on request



Design specifications:

Body type: lug, wafer, flanged Face-to-face: API 609, ISO 5752

Fire test: API607, ISO 10497 Cryogenic: BS 6364

Explosion-proof: ATEX

Thickness: ASME B16.34
Pressure: ASME B16.34
Pressure test: ISO 5208, API 598

Leakage level: ANSI FCI 70-2-2003 TABLE 1, ISO 5208 RATE D/A ,ANSI/ISA-SP-93 Flange design: ASME B16.5 Class 150/300/600, ASME B16.47 Class 150/300/600

VOC Emission: ANSI/ISA-SP-93, TA LUFT, ISO 15848-1/-2

Note: MSS-SP-25

Principle of operation

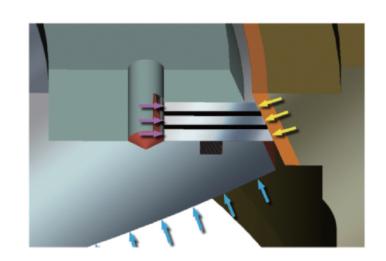
The triple-offset valve provides a bidirectional bubble tight shut-off. This geometry ensures that the disc seal contacts the body seat only at the final shut-off position without rubbing or galling, providing a torque generated resilient seal with sufficient "wedging" to ensure a uniform seal contact.

Offset 1: The shaft is offset behind the seat axis to allow complete sealing contact around the entire seat.

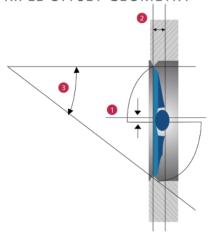
- Offset 2: The shaft centerline is offset from the pipe and valve which provides interference free opening and closing of the valve.
- offset 3: The seat cone axis is offset from the shaft centerline to eliminate friction during closing and opening and to achieve uniform compressive sealing around the entire seat.

The body in Stellite 21 alloy for long life and easy maintance.

Design and construction accroding to international standards or customer specifications



TRIPLE OFFSET GEOMETRY





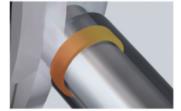




Large diameter shaft for safety is connected to the disc close to the bearings to absorb loads with taper pin and/or key to allow for differential expansion due to temperature.

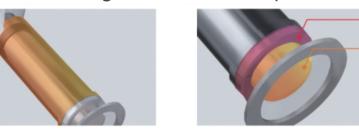


Dustproof design



The resilient seal assures zero leakage of liquids or gases. Resiliency in the seal allows disc movement during thermal cycles while retaining tight shutoff as shown.





Anti-thrrust ring Thrust plate



long bearings, chromed, nitrided, or as CoCr alloy (option) protected against the entrance of solids by bearing seals which are optional on valves.

Double positioner, included anti-thrust and thrust plate, prevent from drooping stem and blow-out proof.

Double positioner





Double Packed with Packing Port

- Double packing with leak-off monitoring purge port.
- Two sets of packing rings, precompressed to 4000 psi
- A lantern ring and leak-off connection allows removal of leakage, if any, from bottom packing set.

STANDARD LOW EMISSION STEM SEAL

- Large compression load required Graphite rings pre-compressed to 4000 psi for effectiveness of all rings. Gland torque must be maintained after installation and in service to levels shown in manuals.
- Stem bearing to assure concentric stem rotation, allowing stem packing to provide maximum sealing effectiveness.
- Two-piece gland with spherical mating surfaces to assure an even packing load over 360°.

