



# SOFT SEAT KNIFE GATE VALVE

## We Make...

PLUG VALVE  
CASTING BALL VALVE  
CASTING VALVE  
DUAL CHECK VALVE  
DOUBLE BLOCK & BLEED VALVE  
SAFETY VALVE



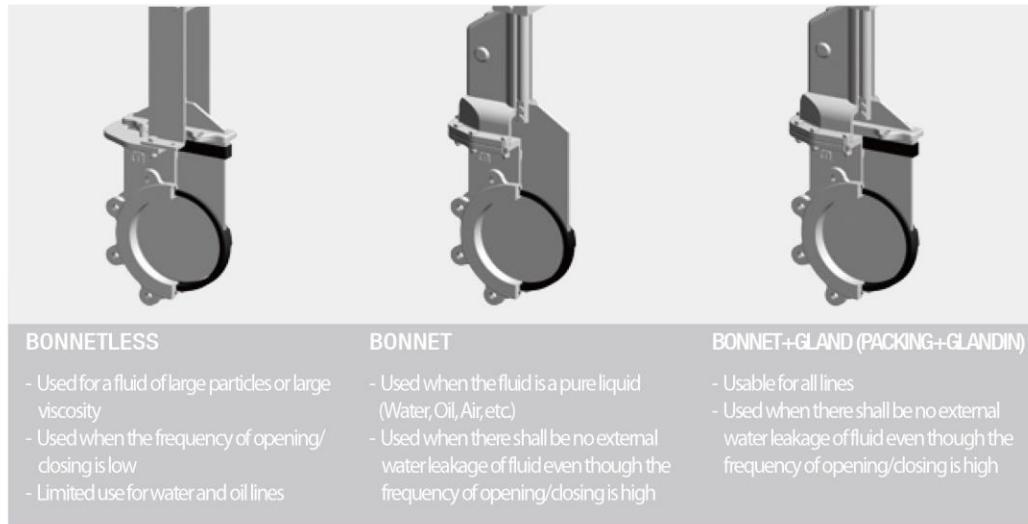
Your Best Partner of All Valves

# SOFT SEAT KNIFE GATE VALVE

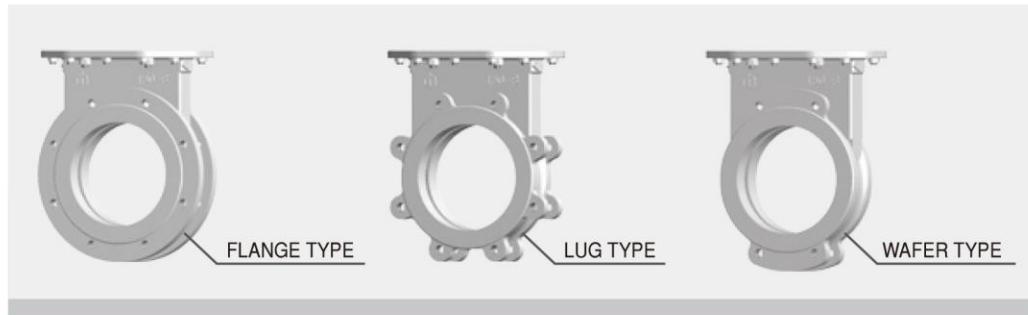
## ZERO LEAKAGE

This is designed according to the MSS SP-81(Class 150LB) and MSS-135(Class 150LB, 300LB). General knife gate valves are designed to be suitable for the control of fluids of large particles such as dregs, sediments, etc. In addition, this is of a metal seat type, so there are an allowed criterion for water leakage and a direction, and thus the installation direction shall be considered when installing a valve. The soft seat type has no allowed criterion of water leakage and is designed to be easily installed in both directions. In addition, this can be used in a pure liquid state of fluid line as well to replace other kinds of valves already installed, and was developed to avoid seat leakage even under a pressure of soft seat knife gate v/v 150LB, 300LB in particular. The customers shall discuss with KCL Valve Co., Ltd. to determine valve construction according to the fluid used and the installation environment.

## VALVE CONSTRUCTION



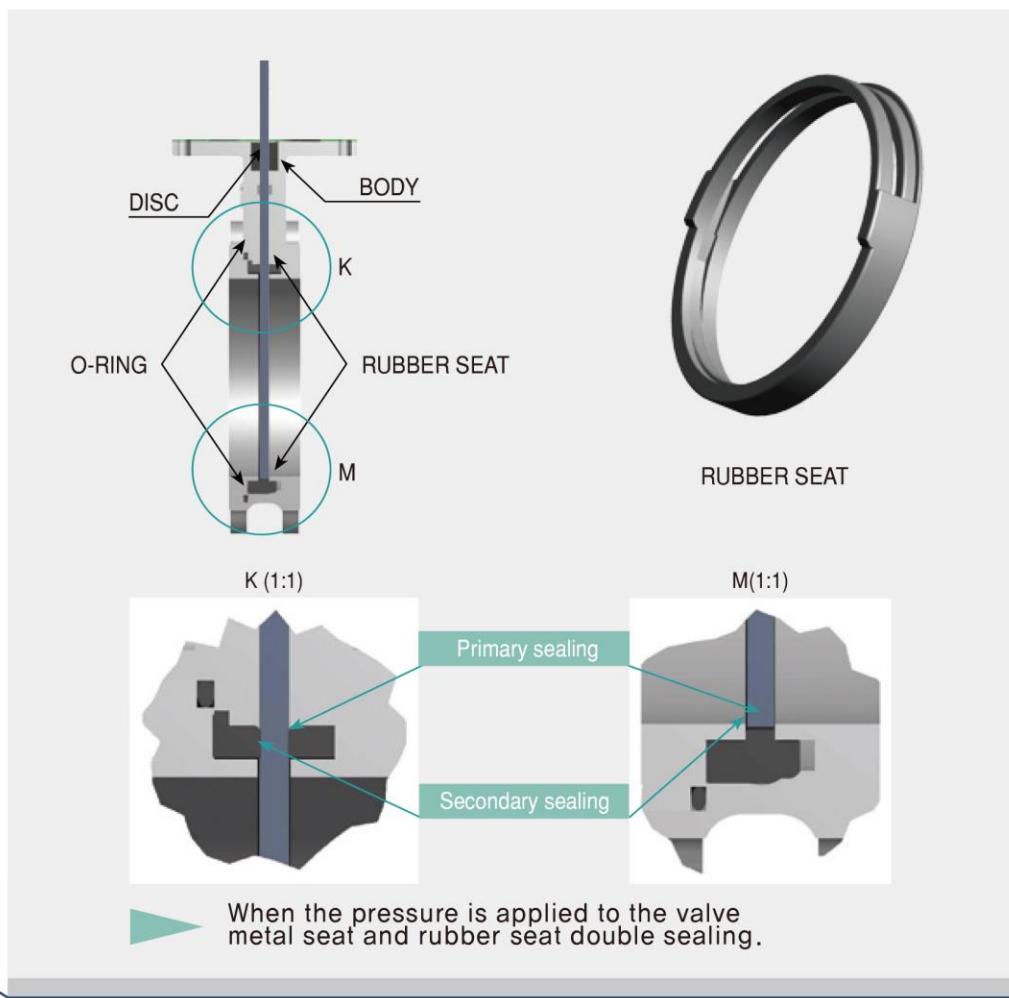
## FLNAGE TYPE



## OPERATION TYPE

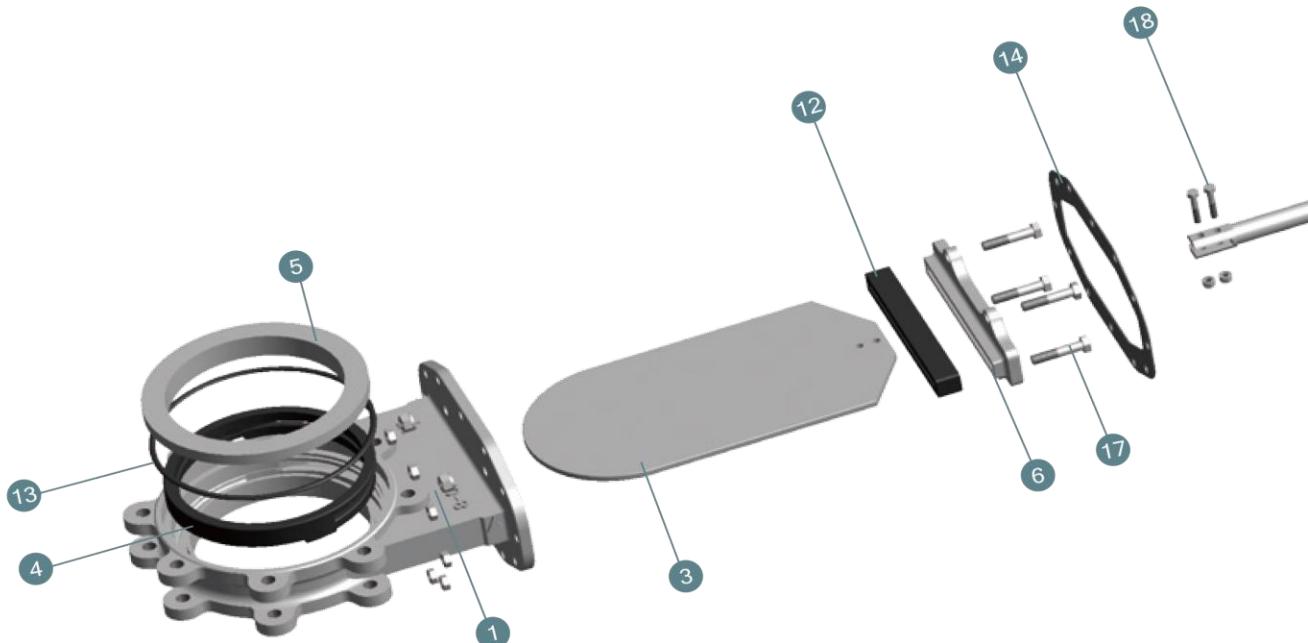


## SEAT TYPE



# SOFT SEAT KNIFE GATE VALVE

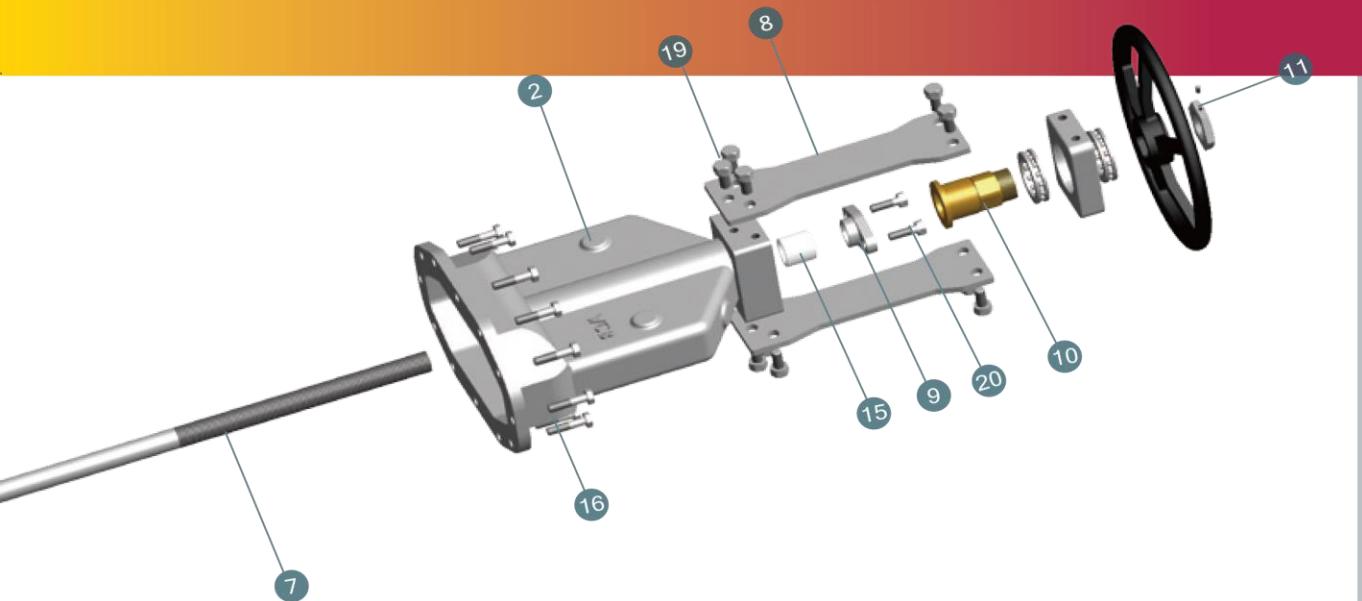
## ZERO LEAKAGE



### MATERIALS



EMPLOY	ANSI				JIS			
	cast steel	cast iron	stainless	special cast steel	cast steel	cast iron	stainless	special cast steel
Body Bonnet	A216-WCA A216-WCB A216-WCC	A536 A395	A351-CF8 A351-CF8M A351-CF3 A351-CFM A351-CK20 A351-CH20 A351-CN7M	A439-D2 HASTELLOY ALLOY	SCPH2	FCD450 FC200	SCS-13A SCS-14A SCS17 SCS18 SCS23	A439-D2 HASTELLOY ALLOY
Stem	-	-	A276-304 A276-316 A276-316L		-	-	SUS 304 SUS 316 SUS 316L	
DISC	-	ALLOY	A240-304 A240-316 A204-316L		-	-	SUS304 SUS316 SUS316L SUS304M ALLOY	



## A deal drawing



NO.	NAME	TYPE		
		BONNETLESS	BONNET	BONNET+GLAND
1	Body	●	●	●
2	Bonnet		●	●
3	Disc	●	●	●
4	Rubber seat	●	●	●
5	Cover	●	●	●
6	Gland	●		●
7	Stem	●	●	●
8	York plate	●	●	●
9	Bonnet gland		●	●
10	Yoke sleeve	●	●	●
11	Rod nut	●	●	●
12	Packing	●		●
13	O-ring	●	●	●
14	Gasket		●	●
15	Bonnet V-packing		●	●
16	Bonnet Bolt/Nut		●	●
17	Gland Bolt/Nut	●		●
18	Stem Bolt/Nut/SW	●	●	●
19	Yoke plate Bolt/SW	●	●	●
20	Bonnet gland Bolt/SW		●	●



## SEAT SPECIFICATION by MATERIALS

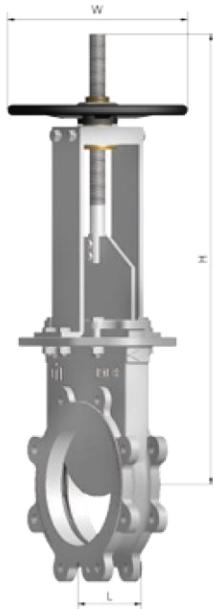


Property	NBR	EPDM	VITON	Polyurethane	PTFE	RTFE	METAL
TENSILE Strength (kg/cm <sup>2</sup> )	50~250	500~200	225	400±0	25~42	25~42	
Elongation(%)	100~500	100~500	425	600±0	250~400	250~400	
Max Temp(°C)	10	140	200	120	130	200	ASTM CORD
Min Temp(°C)	-25	-40	-10	-65	-40	-401	
Abrasion Resistance	Excellent	Fair	Good	Excellent	Good	Good	

# SOFT SEAT KNIFE GATE VALVE

Bonnetless Type Dimension

## ZERO LEAKAGE



### HANDLE



ANSI-150LB (JIS-10K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	48	51	51	57	57	70	70	76	76	89	89	114	114	114	117	117	117
H(mm)	355	450	537	600	711	866	1049	1194	1336	1415	1518	1643	1748	1855	1975	2105	2230
wg(kg)	10	15	23	35	54	56	98	140	180	240	285	345	385	422	476	510	535
ØW	200	200	200	280	280	280	355	400	400	450	450	500	500	500	500	500	500
Torque(kg/m)	2.59	3.53	4.71	5.58	6.54	9.42	12.8	17.7	21.4	26.6	30.4	36.1	42.2	48.6	55.5	62.9	71

ANSI-300LB (JIS-20K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	385	480	567	630	751	906	1100	1244	1386	1485	1588	1713	1828	1935	2055	2185	2310
wg(kg)	21	32	48	62	78	89	112	179	230	289	360	436	482	518	564	604	636
ØW	200	200	200	280	280	280	355	400	400	450	450	500	500	500	500	500	500
Torque(kg/m)	4.26	6.13	8.49	10.2	12.1	17.9	24.7	34.6	41.9	52.4	59.1	71.2	82.6	96.3	110	125	141

### GEAR

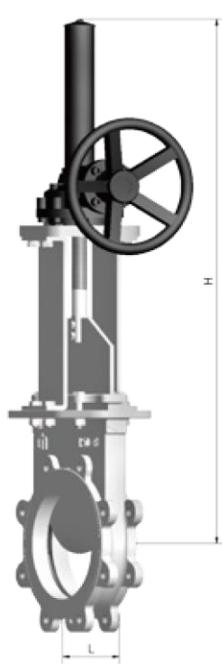


ANSI-150LB (JIS-10K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	48	51	51	57	57	70	70	76	76	89	89	114	114	114	117	117	117
H(mm)	395	480	577	640	752	934	983	1169	1306	1468	1503	1691	1798	1905	2025	2155	2280
wg(kg)	12	18	28	41	59	68	105	150	192	258	305	365	408	443	498	532	565
Torque(kg/m)	2.59	3.53	4.71	5.58	6.54	9.42	12.8	17.7	21.4	26.6	30.4	36.1	42.2	48.6	55.5	62.9	71

ANSI-300LB (JIS-20K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	425	510	607	670	792	974	1033	1219	1356	1538	1573	1761	1878	1985	2105	2235	2360
wg(kg)	26	37	54	70	86	97	132	196	245	314	374	452	503	541	568	614	645
Torque(kg/m)	4.26	6.13	8.49	10.2	12.1	17.9	24.7	34.6	41.9	52.4	59.1	71.2	82.6	96.3	110	125	141



### GEAR



ANSI-150LB (JIS-10K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	48	51	51	57	57	70	70	76	76	89	89	114	114	114	117	117	117
H(mm)	395	480	577	640	752	934	983	1169	1306	1468	1503	1691	1798	1905	2025	2155	2280
wg(kg)	12	18	28	41	59	68	105	150	192	258	305	365	408	443	498	532	565
Torque(kg/m)	2.59	3.53	4.71	5.58	6.54	9.42	12.8	17.7	21.4	26.6	30.4	36.1	42.2	48.6	55.5	62.9	71

## Bonnetless Type Dimension



### PNEUMATIC ACTUATOR



ANSI-150LB (JIS-10K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	48	51	51	57	57	70	70	76	76	89	89	114	114	114	117	117	117
H(mm)	465	560	680	715	857	1030	1131	1359	1458	1658	1788	1953	2108	2178	2287	2575	2721
wg(kg)	14	17	26	36	56	78	112	148	186	248	308	372	426	467	504	546	602
Torque(kg/m)	2.59	3.53	4.71	5.58	6.54	9.42	12.8	17.7	21.4	26.6	30.4	36.1	42.2	48.6	55.5	62.9	71

ANSI-300LB (JIS-20K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	495	590	710	745	897	1070	1181	1409	1508	1449	1858	2023	2188	2259	2367	2655	2801
wg(kg)	36	47	64	80	96	107	147	211	260	329	413	486	534	576	598	635	697
Torque(kg/m)	4.26	6.13	8.49	10.2	12.1	17.9	24.7	34.6	41.9	52.4	59.1	71.2	82.6	96.3	110	125	141

### ELECTRIC ACTUATOR



ANSI-150LB (JIS-10K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	48	51	51	57	57	70	70	76	76	89	89	114	114	114	117	117	117
H(mm)	425	510	640	675	814	945	1181	1408	1508	1729	1938	2049	2198	2268	2377	2665	2811
wg(kg)	19	25	41	56	78	89	118	158	197	267	316	386	446	475	534	568	623
Torque(kg/m)	2.59	3.53	4.71	5.58	6.54	9.42	12.8	17.7	21.4	26.6	30.4	36.1	42.2	48.6	55.5	62.9	71

ANSI-300LB (JIS-20K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	455	540	670	705	854	985	1231	1458	1558	1799	2008	2119	2278	2348	2457	2735	2891
wg(kg)	41	52	67	88	101	112	152	216	265	334	418	491	539	581	603	638	702
Torque(kg/m)	4.26	6.13	8.49	10.2	12.1	17.9	24.7	34.6	41.9	52.4	59.1	71.2	82.6	96.3	110	125	141



# SOFT SEAT KNIFE GATE VALVE

Bonnet Type Dimension  
Bonnet+Gland Type Dimension

## ZERO LEAKAGE



### HANDLE

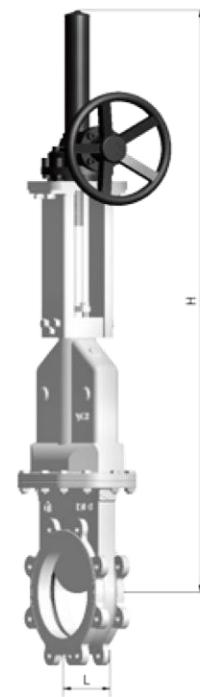


ANSI-150LB (JIS-10K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	48	51	51	57	57	70	70	76	76	89	89	114	114	114	117	117	117
H(mm)	498	602	704	810	915	1121	1355	1689	1739	1995	2209	2393	2793	2936	3091	3244	3404
wg(kg)	16	24	36	45	62	79	106	167	196	233	302	385	425	476	508	521	583
ØW	200	200	200	280	280	280	355	400	400	450	450	500	500	500	500	500	500
Torque(kg/m) (Bonnet type)	2.33	3.17	4.23	5.02	5.88	8.47	11.5	15.9	19.2	23.9	27.3	32.4	37.9	43.7	50	56.6	63.9
Torque(kg/m) (Bonnet+Gland)	2.84	3.88	5.18	6.13	7.19	10.3	14	19.4	23.5	29.2	33.4	39.7	46.4	53.4	61	69.1	78.1

ANSI-300LB (JIS-20K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	538	642	744	850	965	1171	1415	1749	1779	2075	2289	2473	2883	3026	3181	3324	3484
wg(kg)	36	42	59	75	91	108	132	208	262	327	395	478	513	557	596	654	703
ØW	200	200	200	280	280	280	355	400	400	450	450	500	500	500	500	500	500
Torque(kg/m) (Bonnet type)	3.83	5.51	7.64	9.18	10.8	16.1	22.2	31.1	37.7	47.1	53.1	64	74.3	86.6	99	112	126
Torque(kg/m) (Bonnet+Gland)	4.68	6.74	9.33	11.2	13.3	19.6	27.1	38	46	57.6	65	78.3	90.8	105	121	137	155



### GEAR



ANSI-150LB (JIS-10K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	48	51	51	57	57	70	70	76	76	89	89	114	114	114	117	117	117
H(mm)	575	689	817	892	1056	1225	1419	1650	1824	2130	2178	2447	2590	2755	2925	3105	3280
wg(kg)	18	26	38	49	69	89	116	179	205	253	327	410	452	501	528	547	602
Torque(kg/m) (Bonnet type)	2.33	3.17	4.23	5.02	5.88	8.47	11.5	15.9	19.2	23.9	27.3	32.4	37.9	43.7	50	56.6	63.9
Torque(kg/m) (Bonnet+Gland)	2.84	3.88	5.18	6.13	7.19	10.3	14	19.4	23.5	29.2	33.4	39.7	46.4	53.4	61	69.1	78.1

ANSI-300LB (JIS-20K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (705A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	615	729	857	942	1106	1275	1479	1710	1894	2210	2268	2527	2680	2835	3015	3195	3370
wg(kg)	38	45	62	79	95	113	138	221	273	342	410	495	530	590	615	669	717
Torque(kg/m) (Bonnet type)	3.83	5.51	7.64	9.18	10.8	16.1	22.2	31.1	37.7	47.1	53.1	64	74.3	86.6	99	112	126
Torque(kg/m) (Bonnet+Gland)	4.68	6.74	9.33	11.2	13.3	19.6	27.1	38	46	57.6	65	78.3	90.8	105	121	137	155

## Bonnet Type Dimension Bonnet+Gland Type Dimension



### PNEUMATIC ACTUATOR

ANSI-150LB (JIS-10K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	608	712	847	925	1061	1285	1437	1854	1968	2238	2473	2703	3153	3259	3403	3714	3896
wg(kg)	24	32	43	54	76	95	126	168	206	276	338	403	466	498	549	596	637
Torque(kg/m) (Bonnet type)	2.33	3.17	4.23	5.02	5.88	8.47	11.5	15.9	19.2	23.9	27.3	32.4	37.9	43.7	50	56.6	63.9
Torque(kg/m) (Bonnet+Gland)	2.84	3.88	5.18	6.13	7.19	10.3	14	19.4	23.5	29.2	33.4	39.7	46.4	53.4	61	69.1	78.1

ANSI-300LB (JIS-20K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	648	752	887	965	1111	1335	1497	1914	2028	2318	2553	2783	3243	3349	3493	3804	3986
wg(kg)	41	49	66	84	98	123	149	240	283	351	416	502	537	596	624	678	725
Torque(kg/m) (Bonnet type)	3.83	5.51	7.64	9.18	10.8	16.1	22.2	31.1	37.7	47.1	53.1	64	74.3	86.6	99	112	126
Torque(kg/m) (Bonnet+Gland)	4.68	6.74	9.33	11.2	13.3	19.6	27.1	38	46	57.6	65	78.3	90.8	105	121	137	155

### ELECTRIC ACTUATOR

ANSI-150LB (JIS-10K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	568	662	807	885	1018	1200	1487	1903	2018	2309	2629	2799	3243	3349	3493	3804	3985
wg(kg)	29	37	49	54	81	102	136	177	215	288	353	415	479	521	563	612	653
Torque(kg/m) (Bonnet type)	2.33	3.17	4.23	5.02	5.88	8.47	11.5	15.9	19.2	23.9	27.3	32.4	37.9	43.7	50	56.6	63.9
Torque(kg/m) (Bonnet+Gland)	2.84	3.88	5.18	6.13	7.19	10.3	14	19.4	23.5	29.2	33.4	39.7	46.4	53.4	61	69.1	78.1

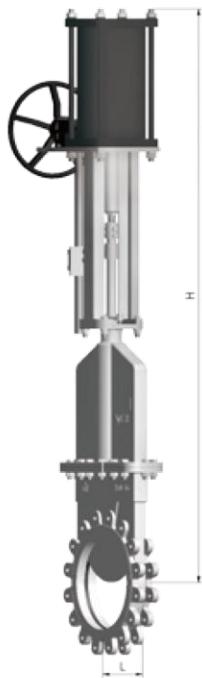
ANSI-300LB (JIS-20K)

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	608	702	847	925	1068	1250	1547	1963	2078	2389	2709	2889	3333	3439	3583	3894	4075
wg(kg)	45	54	72	89	103	128	156	244	289	356	426	511	545	603	618	683	738
Torque(kg/m) (Bonnet type)	3.83	5.51	7.64	9.18	10.8	16.1	22.2	31.1	37.7	47.1	53.1	64	74.3	86.6	99	112	126
Torque(kg/m) (Bonnet+Gland)	4.68	6.74	9.33	11.2	13.3	19.6	27.1	38	46	57.6	65	78.3	90.8	105	121	137	155

# SOFT SEAT KNIFE GATE VALVE

Special Type Dimension

## ZERO LEAKAGE



**Bonnet + Cylinder + Gear**



**ANSI-150LB (JIS-10K)**

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	638	742	877	955	1101	1325	1477	1894	2118	2288	2523	2763	3213	3319	3463	3774	3956
wg(kg)	29	37	49	54	81	102	136	177	215	288	353	415	479	521	563	612	653
Torque(kg/m) (Bonnet type)	2.33	3.17	4.23	5.02	5.88	8.47	11.5	15.9	19.2	23.9	27.3	32.4	37.9	43.7	50	56.6	63.9
Torque(kg/m) (Bonnet+Gland)	2.84	3.88	5.18	6.13	7.19	10.3	14	19.4	23.5	29.2	33.4	39.7	46.4	53.4	61	69.1	78.1

**ANSI-300LB (JIS-20K)**

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	678	782	917	995	1151	1375	1537	1954	2178	2368	2603	2843	3303	3409	3553	3864	4046
wg(kg)	45	54	72	89	103	128	156	244	289	356	426	511	545	603	618	683	738
Torque(kg/m) (Bonnet type)	3.83	5.51	7.64	9.18	10.8	16.1	22.2	31.1	37.7	47.1	53.1	64	74.3	86.6	99	112	126
Torque(kg/m) (Bonnet+Gland)	4.68	6.74	9.33	11.2	13.3	19.6	27.1	38	46	57.6	65	78.3	90.8	105	121	137	155

**Bonnetless + Cylinder + Gear**



**ANSI-150LB (JIS-10K)**

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	48	51	51	57	57	70	70	76	76	89	89	114	114	114	117	117	117
H(mm)	495	590	710	745	897	1070	1171	1399	1508	1708	1838	2013	2168	2238	2347	2635	2791
wg(kg)	19	25	41	56	78	89	118	158	197	267	316	386	446	475	534	568	623
Torque(kg/m)	2.59	3.53	4.71	5.58	6.54	9.42	12.8	17.7	21.4	26.6	30.4	36.1	42.2	48.6	55.5	62.9	71

**ANSI-300LB (JIS-20K)**

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	535	630	750	785	947	1120	1231	1459	1568	1788	1918	2093	2258	2328	2437	2725	2881
wg(kg)	41	52	67	88	101	112	152	216	265	334	418	491	539	581	603	638	702
Torque(kg/m)	4.26	6.13	8.49	10.2	12.1	17.9	24.7	34.6	41.9	52.4	59.1	71.2	82.6	96.3	110	125	141



**Bonnetless + Cylinder + Gear**



**ANSI-150LB (JIS-10K)**

inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	48	51	51	57	57	70	70	76	76	89	89	114	114	114	117	117	117
H(mm)	495	590	710	745	897	1070	1171	1399	1508	1708	1838	2013	2168	2238	2347	2635	2791
wg(kg)	19	25	41	56	78	89	118	158	197	267	316	386	446	475	534	568	623
Torque(kg/m)	2.59	3.53	4.71	5.58	6.54	9.42	12.8	17.7	21.4	26.6	30.4	36.1	42.2	48.6	55.5	62.9	71

**ANSI-300LB (JIS-20K)**

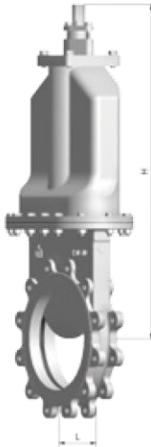
inch/mm SIZE(unit)	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	535	630	750	785	947	1120	1231	1459	1568	1788	1918	2093	2258	2328	2437	2725	2881
wg(kg)	41	52	67	88	101	112	152	216	265	334	418	491	539	581	603	638	702
Torque(kg/m)	4.26	6.13	8.49	10.2	12.1	17.9	24.7	34.6	41.9	52.4	59.1	71.2	82.6	96.3	110	125	141

## Special Type Dimension

### NON RISING + BONNET

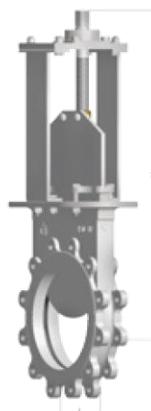


ANSI-150LB (JIS-10K)



inch/mm SIZE/unit	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	48	51	51	57	57	70	70	76	76	89	89	114	114	114	117	117	117
H(mm)	285	367	430	485	542	668	781	877	980	1130	1215	1335	1469	1558	1632	1726	1829
wg(kg)	16	24	36	45	62	79	106	167	196	233	302	385	425	476	508	521	583
Torque(kg/m) (Bonnet type)	2.33	3.17	4.23	5.02	5.88	8.47	11.5	15.9	19.2	23.9	27.3	32.4	37.9	43.7	50	56.6	63.9
Torque(kg/m) (Bonnet+Gland)	2.84	3.88	5.18	6.13	7.19	10.3	14	19.4	23.5	29.2	33.4	39.7	46.4	53.4	61	69.1	78.1

ANSI-300LB (JIS-20K)

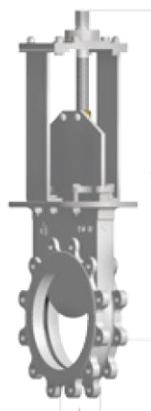


inch/mm SIZE/unit	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	325	407	470	525	592	718	841	937	1040	1210	1295	1415	1559	1648	1722	1816	1919
wg(kg)	36	42	59	75	91	108	132	208	262	327	395	478	513	557	596	654	703
Torque(kg/m) (Bonnet type)	3.83	5.51	7.64	9.18	10.8	16.1	22.2	31.1	37.7	47.1	53.1	64	74.3	86.6	99	112	126
Torque(kg/m) (Bonnet+Gland)	4.68	6.74	9.33	11.2	13.3	19.6	27.1	38	46	57.6	65	78.3	90.8	105	121	137	155

### NON RISING + BONNETLESS



ANSI-150LB (JIS-10K)



inch/mm SIZE/unit	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	48	51	51	57	57	70	70	76	76	89	89	114	114	114	117	117	117
H(mm)	265	247	410	465	522	648	761	847	950	1110	1185	1305	1429	1518	1592	1686	1789
wg(kg)	10	15	23	35	54	56	98	140	180	240	285	345	385	422	476	510	535
Torque(kg/m)	2.59	3.53	4.71	5.58	6.54	9.42	12.8	17.7	21.4	26.6	30.4	36.1	42.2	48.6	55.5	62.9	71

ANSI-300LB (JIS-20K)

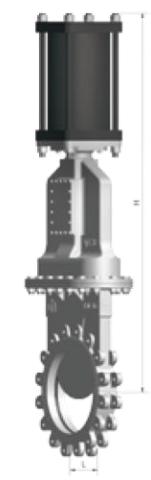


inch/mm SIZE/unit	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	305	287	450	505	572	698	821	907	1010	1190	1275	1385	1519	1608	1682	1776	1879
wg(kg)	21	32	48	62	78	89	112	179	230	289	360	436	482	518	546	594	630
Torque(kg/m)	4.26	6.13	8.49	10.2	12.1	17.9	24.7	34.6	41.9	52.4	59.1	71.2	82.6	96.3	110	125	141

### NON RISING + BONNET + YOKELESS + PNEUMATIC ACTUATOR



ANSI-150LB (JIS-10K)



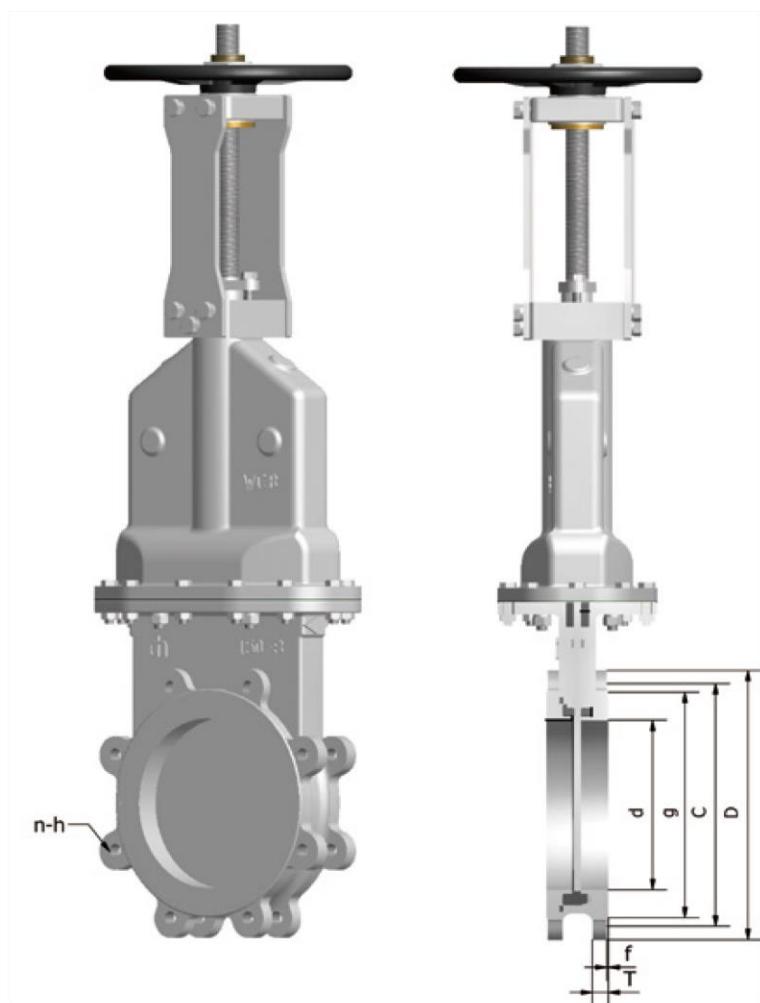
inch/mm SIZE/unit	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	48	51	51	57	57	70	70	76	76	89	89	114	114	114	117	117	117
H(mm)	485	580	700	735	877	1050	1151	1379	1478	1678	1808	1973	2128	2198	2307	2595	2741
wg(kg)	18	26	38	49	69	89	116	179	205	253	327	410	452	501	528	547	602
Torque(kg/m) (Bonnet type)	2.33	3.17	4.23	5.02	5.88	8.47	11.5	15.9	19.2	23.9	27.3	32.4	37.9	43.7	50	56.6	63.9
Torque(kg/m) (Bonnet+Gland)	2.84	3.88	5.18	6.13	7.19	10.3	14	19.4	23.5	29.2	33.4	39.7	46.4	53.4	61	69.1	78.1

ANSI-300LB (JIS-20K)

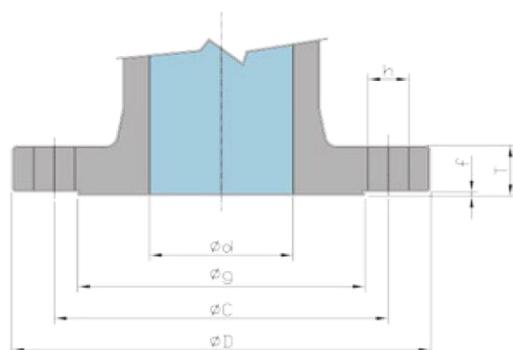
inch/mm SIZE/unit	2" (50A)	3" (80A)	4" (100A)	5" (125A)	6" (150A)	8" (200A)	10" (250A)	12" (300A)	14" (350A)	16" (400A)	18" (450A)	20" (500A)	22" (550A)	24" (600A)	26" (660A)	28" (700A)	30" (800A)
L(mm)	67	67	67	80	80	89	119	127	140	140	156	189	189	216	216	254	267
H(mm)	525	620	740	775	927	1100	1211	1439	1538	1758	1888	2053	2208	2288	2398	2685	2831
wg(kg)	38	45	62	79	95	113	138	221	273	342	410	495	530	590	615	669	717
Torque(kg/m) (Bonnet type)	3.83	5.51	7.64	9.18	10.8	16.1	22.2	31.1	37.7	47.1	53.1	64	74.3	86.6	99	112	126
Torque(kg/m) (Bonnet+Gland)	4.68	6.74	9.33	11.2	13.3	19.6	27.1	38	46	57.6	65	78.3	90.8	105	121	137	155

# SOFT SEAT KNIFE GATE VALVE (150LB 10K)

ZERO LEAKAGE



**Model:** KCL-KGV-150SS



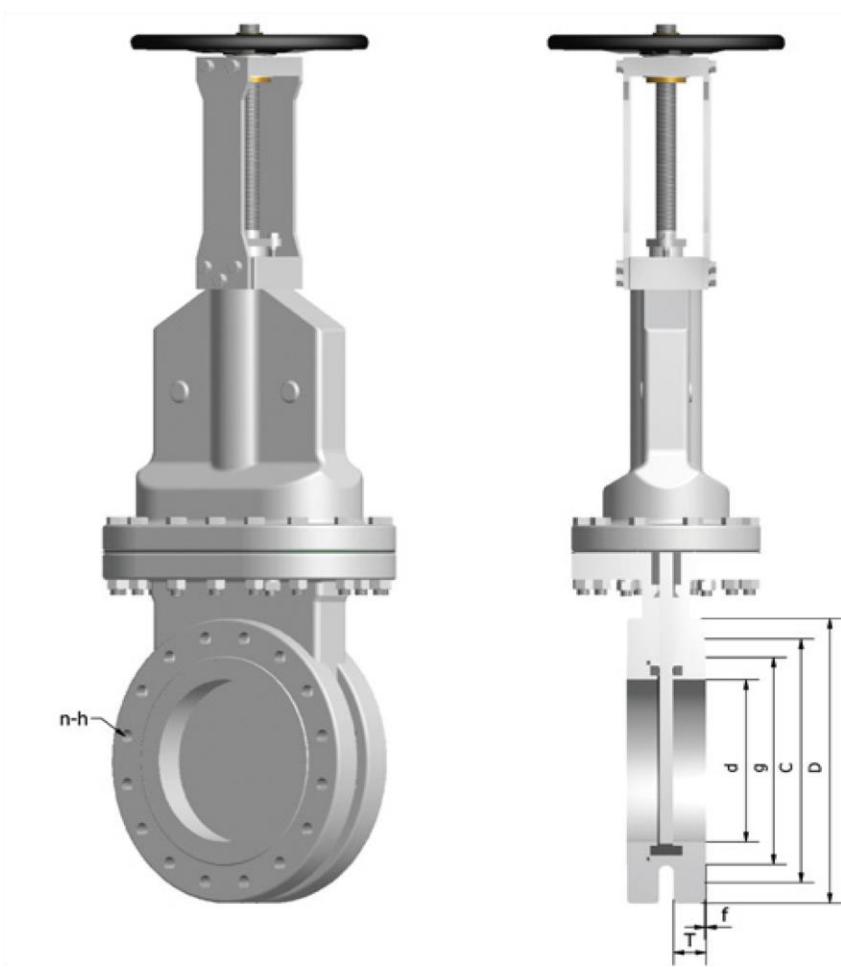
# BASIC DIMENSION

ANSI B16.5 CLASS 150LB / JIS B2210 CLASS 10kgf/cm<sup>2</sup>

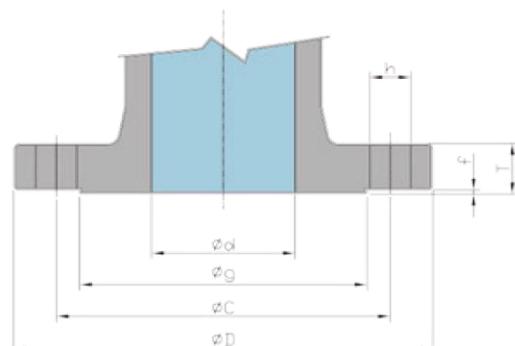
Valve Size		ID of Bore	OD of Flange	Dia of Raised Face	Thickness of Flange	Thickness of Raised Face	Dia of Bolt Circle	Dia of Bolt Hole	Number of Bolt (n)	Dia of Bolt (h)
ANSI	JIS	d (mm)	D (mm)	g (mm)	T (mm)	f (mm)	c (mm)	h (mm)		
2"		51	152	92	19.1	1.6	120.5	19	4	5/8
50A		50	155	96	16	2	120	19	4	M16
3"		76	190	127	23.9	1.6	152.5	19	4	5/8
80A		80	185	126	18	2	150	19	4	M16
4"		102	229	157	23.9	1.6	190.5	19	8	5/8
100A		100	210	151	18	2	175	19	8	M16
5"		127	254	186	23.9	1.6	216	22	8	3/4
125A		125	250	182	20	2	210	23	8	M20
6"		152	279	216	25.4	1.6	241.5	22	8	3/4
150A		150	280	212	22	2	240	23	8	M20
8"		203	343	270	28.6	1.6	298.5	22	8	3/4
200A		200	330	262	22	2	290	23	12	M20
10"		254	406	324	30.2	1.6	362	25	12	7/8
250A		250	400	324	24	2	355	25	12	M22
12"		305	483	381	31.8	1.6	432	25	12	7/8
300A		300	445	368	24	3	400	25	16	M22
14"		337	533	413	35	1.6	476	29	12	1
350A		340	490	413	26	3	445	25	16	M22
16"		387	597	470	36.6	1.6	539.5	29	16	1
400A		400	560	475	28	3	510	27	16	M24
18"		438	635	533	39.7	1.6	578	32	16	1 1/8
450A		450	620	530	30	3	565	27	18	M24
20"		489	698	584	42.9	1.6	635	32	20	1 1/8
500A		500	675	585	35	3	620	27	20	M24
24"		591	813	692	47.5	1.6	749.3	35	20	1 1/4
600A		600	795	690	40	3	730	33	24	M30
26"		625	870	749	68.3	1.6	806.4	35	24	1 1/4
650A		650	850	745	55	3	795	33	24	M30
28"		692	927	800	71.3	1.6	863.4	35	28	1 1/4
700A		700	905	894	60	3	850	33	28	M30
30"		743	985	857	71.5	1.6	914.4	35	28	1 1/4
750A		750	970	952	70	3	910	33	28	M30
32"		787	1060	9145	81	1.6	978	41	28	1 1/2
800A		800	1050	910	75	3	975	38	28	M36
36"		889	1170	1022	90.5	1.6	1086	41	32	1 1/2
900A		900	1160	1020	80	3	1080	38	32	M36
38"		940	1238	1079.5	92	1.6	1149	41	32	1 1/2
950A		950	1230	1078	80	3	1130	38	32	M36
40"		978	1289	1130	94	1.6	1200	42	36	1 1/2
1000A		1000	1275	1125	85	3	1180	40	36	M36
42"		1041	1346	1194	96	1.6	1257	42	36	1 1/2
1050A		1050	1330	1192	85	3	1230	40	36	M36
44"		1092	1403	1251	101	1.6	1314	42	40	1 1/2
1100A		1100	1400	1248	90	3	1300	40	40	M36
46"		1143	1454	1295	104	1.6	1365	42	40	1 1/2
1150A		1150	1440	1293	90	3	1350	40	40	M36
48"		1158	1511	1359	108	1.6	1422	42	44	1 1/2
1200A		1200	1500	1356	95	3	1400	40	44	M36

# SOFT SEAT KNIFE GATE VALVE (300LB 20K)

ZERO LEAKAGE



**Model:** KCL-KGV-300SS



# BASIC DIMENSION

ANSI B16.5 CLASS 300LB / JIS B2210 CLASS 20kgf/cm<sup>2</sup>

Valve Size		ID of Bore	OD of Flange	Dia of Raised Face	Thickness of Flange	Thickness of Raised Face	Dia of Bolt Circle	Dia of Bolt Hole	Number of Bolt (n)	Dia of Bolt (h)
ANSI	JIS	d (mm)	D (mm)	g (mm)	T (mm)	f (mm)	c (mm)	h (mm)		
2"		51	165	92	22.3	1.6	127	19	8	5/8
50A		50	155	96	18	2	120	19	8	M16
3"		76	210	127	28.6	1.6	168	22	8	3/4
80A		80	200	132	22	2	160	23	8	M20
4"		102	254	157	31.8	1.6	200	22	8	3/4
100A		100	225	160	24	2	185	23	8	M20
5"		127	279	186	35	1.6	235	22	8	3/4
125A		125	270	195	26	2	225	25	8	M22
6"		152	318	216	36.6	1.6	270	22	12	3/4
150A		150	305	230	28	2	260	25	12	M22
8"		203	381	270	41.3	1.6	330	25	12	5/8
200A		200	350	275	30	2	305	25	12	M22
10"		254	444	324	47.7	1.6	387	29	16	1
250A		250	430	345	34	2	380	27	12	M22
12"		305	521	381	50.8	1.6	451	32	16	1 1/8
300A		300	480	395	36	3	430	27	16	M24
14"		337	584	413	54	1.6	514.5	32	20	1 1/8
350A		335	540	440	40	3	480	33	16	M30
16"		387	648	470	57.2	1.6	571.5	35	20	1 1/4
400A		380	605	495	46	3	540	33	16	M30
18"		432	711	533	60.4	1.6	628.5	35	24	1 1/4
450A		430	675	560	48	3	605	33	20	M30
20"		483	775	584	63.5	1.6	686	35	24	1 1/4
500A		480	730	615	50	3	660	33	20	M30
24"		584	914	692	70	1.6	813	41	24	1 1/2
600A		580	845	720	54	3	770	39	24	M36
26"		635	970	749	79.4	1.6	876.3	44.5	28	1 5/8
650A		630	735	770	59	3	850	42.5	28	M42
28"		673	1035	800	85.8	1.6	939.8	44.5	28	1 5/8
700A		680	1000	825	65	3	920	42.5	28	M42
30"		724	1090	857	92	1.6	997	47.75	28	1 3/4
750A		730	1055	880	70	3	970	45.75	28	M48
32"		775	1150	914	98.5	1.6	1054.1	50.8	28	1 7/8
800A		780	1120	935	73	3	1030	58.8	28	M48
36"		889	1270	1022	104.8	1.6	1168.4	53.84	32	1 1/2
900A		880	1230	1055	85	3	1140	51.84	32	M64
38"		927	1168	1059	109.5	1.6	1092	44.5	32	1 1/2
950A		930	1120	1085	96	3	1075	42.5	32	M64
40"		978	1238	1099	114	1.6	1156	50.8	32	1 1/2
1000A		980	1205	1110	100	3	1125	48.8	32	M64
42"		1029	1290	1137	119.1	1.6	1206.5	44.5	32	1 5/8
1050A		1030	1265	1170	105	3	1185	42.5	32	M64
44"		1080	1353	1195	125	1.6	1264	50.8	32	1 3/4
1100A		1080	1315	1225	110	3	1210	48.8	32	M80
46"		1130	1416	1257	130	1.6	1321	50.8	32	1 7/8
1150A		1130	1370	1300	116	3	1300	48.8	32	M80
48"		1181	1465	1302	133.4	1.6	1371.6	50.8	32	1 7/8
1200A		1180	1415	1345	125	3	1350	48.8	32	M80

# KCL VALVE PRODUCTS

CASTING BALL VALVE

GATE VALVE

CHECK VALVE

SAFETY VALVE

FORGED BALL VALVE

GLOBE VALVE

DOUBLE BLOCK & BLEED VALVE

PLUG VALVE



API-6D



ISO9001 by Lloyd



Local Agency

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