



609-0215



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Hwa Sung KB Butterfly Valve

Zero Leakage | No Particle | Low Torque



HS KB VALVE

Valve Master!



100% MADE IN KOREA

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PHILOSOPHY

“Accomplishing the goal of World’s Best Quality is our Challenge, Responsibility, Goal”

"Since our establishment as a corporation in 1998, we have been manufacturing and supplying butterfly valves. “

HS KB Valve is committed to always working alongside our customers to improve quality, under the management principles of perfect quality, precise cost control, and sincere service.

Furthermore, all employees of HS KB Valve will continue to play a pivotal role in the advancement of future industries by engaging in ongoing new product development, quality improvement, and strict quality management. We promise to always give our best with a spirit of continuous effort and dedication to serving our customers.

Won G Chang

Chairman Won Gyu Jang.



HS KB VALVE FACTORY



HS 1ST FACTORY



HS 2ND FACTORY



HS 3RD FACTORY

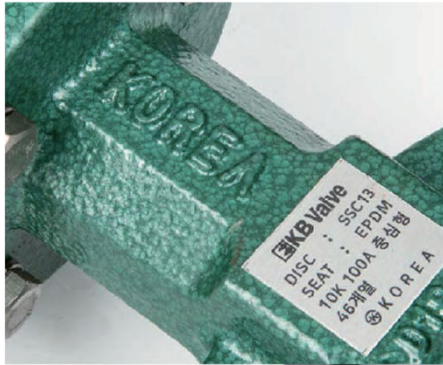


HS 4TH FACTORY



SEOUL OFFICE

COMPANY PROFILE



2024.08	Qualified for Equipment Supply Registration (Korea Southern Power, Korea East-West Power, Korea Midland Power, Korea Western Power, Korea South Power)
2023.11	Obtained ISO 14001:2015 Certification (No. EMS-175)
2023.04	Designated as a Promising 'Global Hidden Champion 1,000+' Company by the Ministry of SMEs and Startups
2022.05	Changed Company Name and CEO to 'Hwa Seong KB Valve Co., Ltd.'
2021.07	Obtained API 609 Monogram (609-0015) Category A (Concentric) & B (Eccentric) Certification
2019.01	Patent Registration - Butterfly Valve with Pressure Measurement Plug (No. 10-1945665)
2018.10	Patent Registered for Butterfly Valve with Auxiliary Handle (No. 10-1913062)
2017.11	Obtained ISO 9001:2015 Certification(10BK01059)
2017.07	Patent Registered for Metal Seat Structure of Butterfly Valve (No. 10-1759792)
2017.03.	Patent Registered for Leakage Test Method of Cryogenic Valves (No. 10-1718631)
2016.05	Patent Registered for the Seat Structure of a Butterfly Valve (No. 10-1624906)
2014.03	Obtained DNV Fire Safe Type Approval Certification
2014.01	Obtained BV Fire Safe Certification (8/400.5-01-CT)
2013.05	Obtained Hygienic Safety Standard (KC) Certification
2012.04	Obtained Type Approval Certificate from BV (ACM 145/2257/01)
2012.02	Obtained CCS (China) Type Approval Certification (HQ002040)
2010.10	Filed Patent for Bidirectional Triple Offset Butterfly Valve (No. 10-0978518)
2010.07	Obtained API 609 Monogram Certification (609-0027)
2009.11	Received the Prime Minister's Award for Exporting 10 Mill. USD
2008.05	Obtained BV Certification (8/400.5-01-CT)
2004.04	Obtained CE Mark Certification (CE0062)
2001.12	Acquired Korean Industrial Standard (KS) Certification (No. KS B 2813)
1998.07	Change of Corporate Name to KB Valve Co., Ltd.

PHILOSOPHY

"Future Innovation and Creativity, A Company Poised to Become a Global Valve Maker, HS KB VALVE"

HS KB Valve is committed to accident-free management as a fundamental principle.

HS KB Valve upholds accident-free management as a core principle. Through regular training and education for employees on safety and accident prevention, along with continuous product development and ongoing quality improvement, we are dedicated to advancing the technological standards of the industry.

HS KB Valve, with its dedicated Research and Development Department

HS KB Valve operates a dedicated Research and Development Department, having obtained various patents and domestic/international certifications. With a focus on new product development, the company aims not only to substitute imported valves but also to expand exports beyond the domestic market

HS KB Valve is on the path to becoming a world-class, leading valve manufacturer.

A company that earns customer trust with the highest quality, ensures safety and disaster preparedness, and cares for the marginalized and those in need. HS KB Valve is committed to creating a brighter tomorrow and a happier future as a responsible and compassionate enterprise.

21C VISION

HS KB Valve has set a new vision for the 21st century as a 'World-Class, Leading Valve Manufacturer.' We are committed to advancing further, from small-diameter valves to large-diameter, cutting-edge valves for chemical and plant industries, paving the way for the future.



1

Customer First

We prioritize our customers' needs and aim to create a win-win situation for customers, and employees through open management

2

Korea TOP 1

We will secure technological competitiveness through continuous innovation and grow into the largest valve manufacturer in the country.

3

Global Marketing

We will establish sales bases in North America, China, Europe, and the Middle East to transform into a global export company.

HS KB VALVE

HS KB VALVE

PRODUCTS

CONCENTRIC GROUP



KB-350L / WAFER

- BODY TYPE: WAFER
- OPERATION: LEVER
- BODY: GC, GCD, SSC13 ETC.
- SEAT: EPDM, NBR, VITON
- RATING: KS/JIS 10,16,20K ETC.



KB-350G / WAFER

- BODY TYPE: WAFER
- OPERATION: GEAR
- BODY: GC, GCD, SSC13 ETC.
- SEAT: EPDM, NBR, VITON
- RATING: KS/JIS 10,16,20K ETC.



KBL-400 / LUG

- BODY TYPE: LUG
- OPERATION: GEAR, LEVER
- BODY: GC, GCD, SSC13 ETC.
- SEAT: EPDM, NBR, VITON
- RATING: KS/JIS 10,16,20K ETC.



KB-450/ FLANGED

- BODY TYPE: FLANGED
- OPERATION: GEAR, LEVER
- BODY: GC, GCD, SSC13 ETC.
- SEAT: EPDM, NBR, VITON
- RATING: KS/JIS 10,16,20K ETC.

For pressure and materials not listed above, can be available so please contact us separately.

HS KB VALVE

PRODUCTS

HIGH PERFORMANCE GROUP SOFT SEAT TYPE, METAL SEAT TYPE, FIRE SAFE



KBHW / HP WAFER

- BODY TYPE: WAFER
- OPERATION: GEAR, LEVER
- BODY: WCB, CF8, CF8M, C95800
- SEAT: PTFE, RTFE, 304, 316
- RATING: KS/JIS 10,16,20K ANSI 150, 300, PN 10~25



KBHW / HP LUG

- BODY TYPE: LUG
- OPERATION: GEAR, LEVER
- BODY: WCB, CF8, CF8M, C95800
- SEAT: PTFE, RTFE, 304, 316
- RATING: KS/JIS 10,16,20K ANSI 150, 300, PN 10~25



KBHW HP S/FLANGED

- BODY TYPE: SINGLE FLANGED
- OPERATION: GEAR, LEVER
- BODY: WCB, CF8, CF8M, C95800
- SEAT: PTFE, RTFE, 304, 316
- RATING: KS/JIS 10,16,20K ANSI 150, 300, PN 10~25



KBHW HP D/FLANGED

- BODY TYPE: DOUBLE FLANGED
- OPERATION: GEAR, LEVER
- BODY: WCB, CF8, CF8M, C95800
- SEAT: PTFE, RTFE, 304, 316
- RATING: KS/JIS 10,16,20K ANSI 150, 300, PN 10~25



KBHL / MOV

- BODY TYPE: LUG
- OPERATION: ELECTRIC
- BODY: WCB, CF8, CF8M, C95800
- SEAT: PTFE, RTFE, 304, 316
- RATING: KS/JIS 10,16,20K ANSI 150, 300, PN 10~25



KBHW / POV

- BODY TYPE: WAFER
- OPERATION: PNEUMATIC
- BODY: WCB, CF8, CF8M, C95800
- SEAT: PTFE, RTFE, 304, 316
- RATING: KS/JIS 10,16,20K ANSI 150, 300, PN 10~25

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HS KB VALVE

HS KB VALVE

PRODUCTS

TRIPLE OFFSET

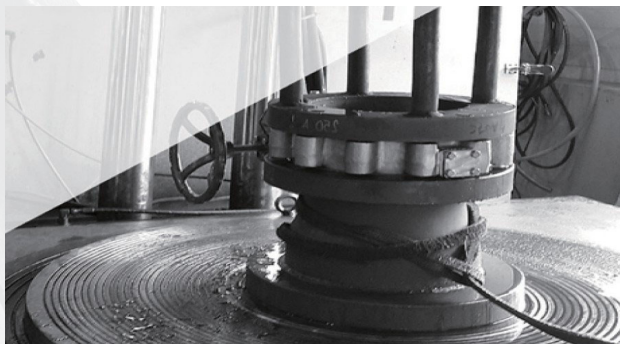
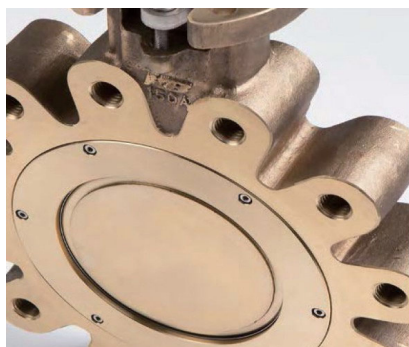


KBTW / TRIPLE WAFER

- BODY TYPE: WAFER
- OPERATION: GEAR, LEVER
- BODY: WCB, CF8, CF8M, C95800
- SEAT: 304, 316
- RATING: KS/JIS 10,16,20K ANSI 150, 300, PN 10~25



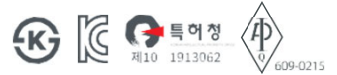
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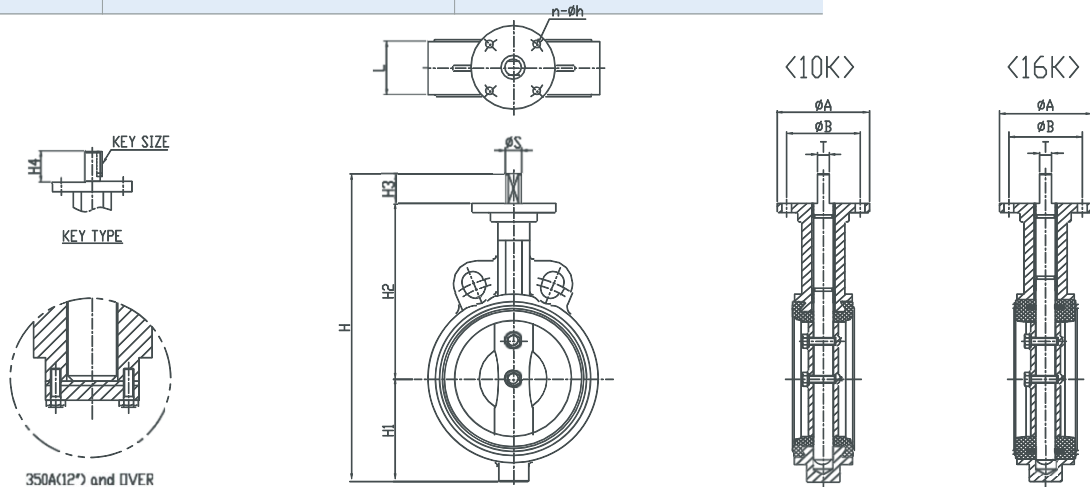
HSKB VALVE

CONCENTRIC WAFER TYPE TECHNICAL INFORMATION



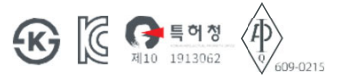
		KBG-350 10K	KBG-350 16K(20K)
FLUID		WATER(SEA WATER), SLUDGE, AIR	
TEMPERATURE		-30~ 90°C	
OPERATION		GEAR, LEVER, ACTUATOR	
ALLOWABLE PRESSURE		MAX 10 kgf/cm ²	MAX 16 (20) kgf/cm ²
TEST PR.	DISC	11 kgf/cm ²	18 (22) kgf/cm ²
	BODY	15 kgf/cm ²	24 (30) kgf/cm ²

MATERIAL			
BODY		GC200/GCD450/SCPH2	
DISC		SSC13/SSC14/CF8/CF8M/C95800	SSC13/SSC14/CF8/CF8M/C95800
SEAT		EPDM, NBR, VITON	EPDM, NBR, VITON
STEM		STS304, 316, C63000	STS304, 316, C63000

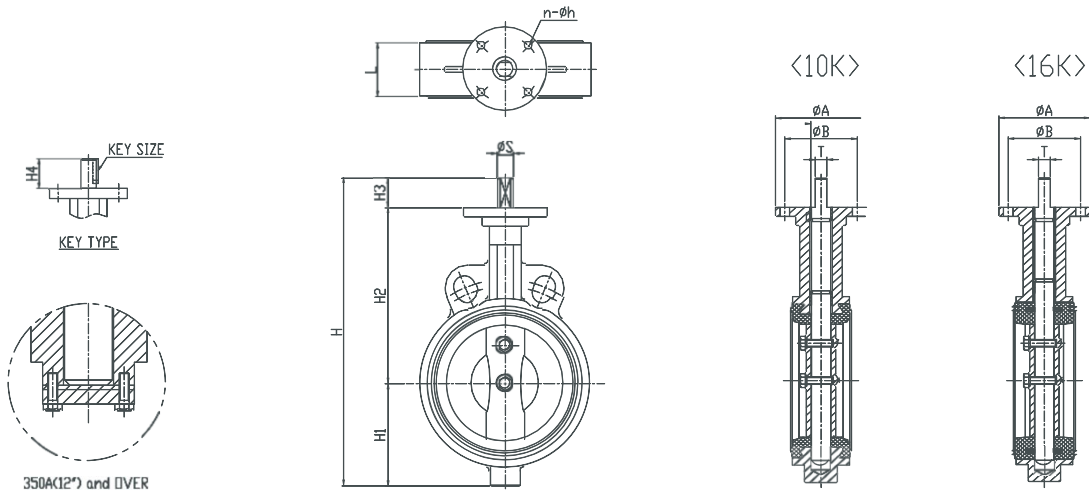


SIZE		L	H	H1	H2	H3/H4	STEM			TOP FLANGE		
inch	mm						ΦS	T	KEY SIZE	ΦA	ΦB	n-Φh
2"	50	43	236	70	133	33	14	10	-	90	70	4-10
2.5"	65	46	247	74	140	33	14	10	-	90	70	4-10
3"	80	46	267	82	152	33	14	10	-	90	70	4-10
4"	100	52	302	97	172	33	16	12	-	90	70	4-10
5"	125	56	337	112	192	33	19	15	-	90	70	4-10
6"	150	56	367	126	208	33	19	15	-	90	70	4-10
8"	200	60	452	162	250	40	22	16	-	125	102	4-12
10"	250	68	550	226	284	40	28	20	-	125	102	4-12
12"	300	78	602	252	310	40	28	20	-	125	102	4-12
14"	350	78	665	275	340	50	32	-	10×8	125	102	4-12
16"	400	102	726.5	309.5	362	55	40	-	12×8	175	140	4-18
18"	450	114	803	338	410	55	38	-	10×8	175	140	4-18
20"	500	127	827	352	420	55	45	-	14×9	210	165	4-22

CONCENTRIC WAFER TYPE TECHNICAL INFORMATION



		KBG-360 10K	KBG-360 16K(20K)
FLUID		WATER(SEA WATER), SLUDGE, AIR	
TEMPERATURE		-30~ 90°C	
OPERATION		GEAR, LEVER, ACTUATOR	
ALLOWABLE PRESSURE		MAX 10 kgf/cm ²	MAX 16 (20) kgf/cm ²
TEST PR.	DISC	11 kgf/cm ²	18 (22) kgf/cm ²
	BODY	15 kgf/cm ²	24 (30) kgf/cm ²
MATERIAL			
BODY		SSC13/SSC14/C95800	
DISC		SSC13/SSC14/CF8/CF8M/C95800	SSC13/SSC14/CF8/CF8M/C95800
SEAT		EPDM, NBR, VITON	EPDM, NBR, VITON
STEM		STS304, 316, C63000	STS304, 316, C63000



SIZE		L	H	H1	H2	H3	STEM			TOP FLANGE		
inch	mm						ΦS	T	KEY SIZE	ΦA	ΦB	n-Φh
2"	50	43	229.5	65	131.5	33	14	10	-	90	70	4-10
2.5"	65	46	245.5	71.5	141	33	14	10	-	90	70	4-10
3"	80	46	271	79.5	158.5	33	14	10	-	90	70	4-10
4"	100	52	298	95	170	33	16	12	-	90	70	4-10
5"	125	56	333.5	110.5	190	33	19	15	-	90	70	4-10
6"	150	56	364	126	205	33	19	15	-	90	70	4-10
8"	200	60	438.5	155	243.5	40	22	16	-	125	102	4-12
10"	250	68	542	222	280	40	28	20	-	125	102	4-12
12"	300	78	593	247.5	305.5	40	28	20	-	125	102	4-12
14"	350	78	675	285	340	50	32	-	10×8	125	102	4-12
16"	400	102	727	310	362	55	40	-	12×8	175	140	4-18

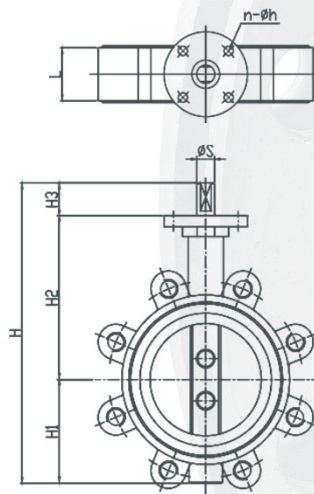
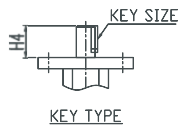
CONCENTRIC LUG TYPE TECHNICAL INFORMATION



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		KBG-400 10K	KBG-400 16K(20K)
FLUID		WATER(SEA WATER), SLUDGE, AIR	
TEMPERATURE		-30~ 90°C	
OPERATION		GEAR, LEVER, ACTUATOR	
ALLOWABLE PRESSURE		MAX 10 kgf/cm ²	MAX 16 (20) kgf/cm ²
TEST PR.	DISC	11 kgf/cm ²	18 (22) kgf/cm ²
	BODY	15 kgf/cm ²	24 (30) kgf/cm ²

MATERIAL		
BODY	GC200.GDC450/SSC13/SSC14/C95800	
DISC	SSC13/SSC14/CF8/CF8M/C95800	SSC13/SSC14/CF8/CF8M/C95800
SEAT	EPDM, NBR, VITON	EPDM, NBR, VITON
STEM	STS304, 316, C63000	STS304, 316, C63000



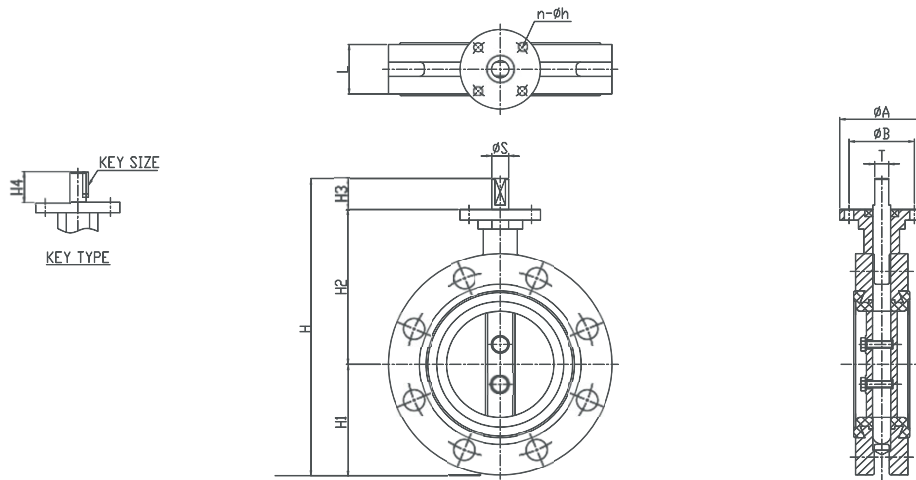
SIZE		L	H	H1	H2	H3/H4	STEM			TOP FLANGE		
inch	mm						ΦS	T	KEY SIZE	ΦA	ΦB	n-Φh
2"	50	43	217.5	62.5	122	33	14	10	-	90	70	4-10
2.5"	65	46	235	72.5	129.5	33	14	10	-	90	70	4-10
3"	80	46	252.5	82.5	137	33	14	10	-	90	70	4-10
4"	100	52	290.5	95	162.5	33	16	12	-	90	70	4-10
5"	125	56	318.5	110.5	175	33	19	15	-	90	70	4-10
6"	150	56	343.5	123	187.5	33	19	15	-	90	70	4-10
8"	200	60	464	189	235	40	22	16	-	125	102	4-12
10"	250	68	505	205	260	40	28	20	-	125	102	4-12
12"	300	78	555	225	290	40	28	20	-	125	102	4-12
14"	350	78	650	265	335	50	32	-	10×8	125	102	4-12
16"	400	102	728	303	370	55	40	-	12×8	175	140	4-18
18"	450	114	795	340	400	55	38	-	10×8	175	140	4-18
20"	500	127	875	380	440	55	45	-	14×9	210	165	4-22

CONCENTRIC FLANGED TYPE TECHNICAL INFORMATION



		KBG-450 10K	KBG-450 16K(20K)
FLUID		WATER(SEA WATER), SLUDGE, AIR	
TEMPERATURE		-30 ~ 90°C	
OPERATION		GEAR, LEVER, ACTUATOR	
ALLOWABLE PRESSURE		MAX 10 kgf/cm ²	MAX 16 (20) kgf/cm ²
TEST PR.	DISC	11 kgf/cm ²	18 (22) kgf/cm ²
	BODY	15 kgf/cm ²	24 (30) kgf/cm ²

MATERIAL		
BODY	GC200.GDC450/SSC13/SSC14/C95800	
DISC	SSC13/SSC14/CF8/CF8M/C95800	SSC13/SSC14/CF8/CF8M/C95800
SEAT	EPDM, NBR, VITON	EPDM, NBR, VITON
STEM	STS304, 316, C63000	STS304, 316, C63000



SIZE		L	H	H1	H2	H3/H4	STEM			TOP FLANGE		
inch	mm						ΦS	T	KEY SIZE	ΦA	ΦB	n-Φh
2"	50	43	232.5	77.5	122	33	14	10	-	90	70	4-10
2.5"	65	46	261.5	87.5	141	33	14	10	-	90	70	4-10
3"	80	46	267.5	97.5	137	33	14	10	-	90	70	4-10
4"	100	52	308	110	165	33	16	12	-	90	70	4-10
5"	125	56	338	130	175	33	19	15	-	90	70	4-10
6"	150	56	366	145	188	33	19	15	-	90	70	4-10
8"	200	60	449	165	244	40	22	16	-	125	102	4-12
10"	250	68	505	205	260	40	28	20	-	125	102	4-12
12"	300	78	555	225	290	40	28	20	-	125	102	4-12
14"	350	78	662	272	340	50	32	-	10×8	125	102	4-12
16"	400	102	727	310	362	55	40	-	12×8	175	140	4-18
18"	450	114	778	330	393	55	38	-	10×8	175	140	4-18
20"	500	127	867	372	440	55	45	-	14×9	210	165	4-22

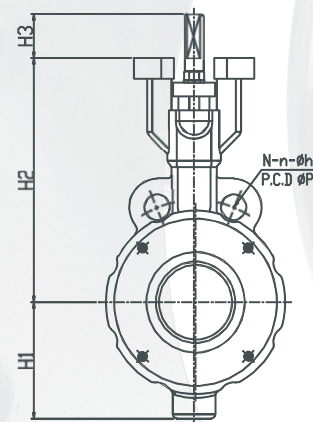
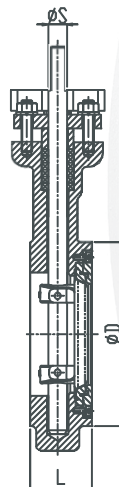
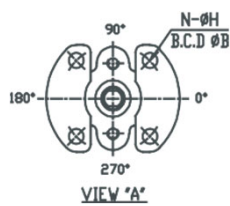
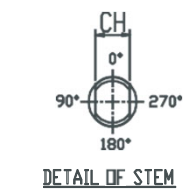
HSKB VALVE

HIGH PERFORMANCE WAFER TYPE TECHNICAL INFORMATION

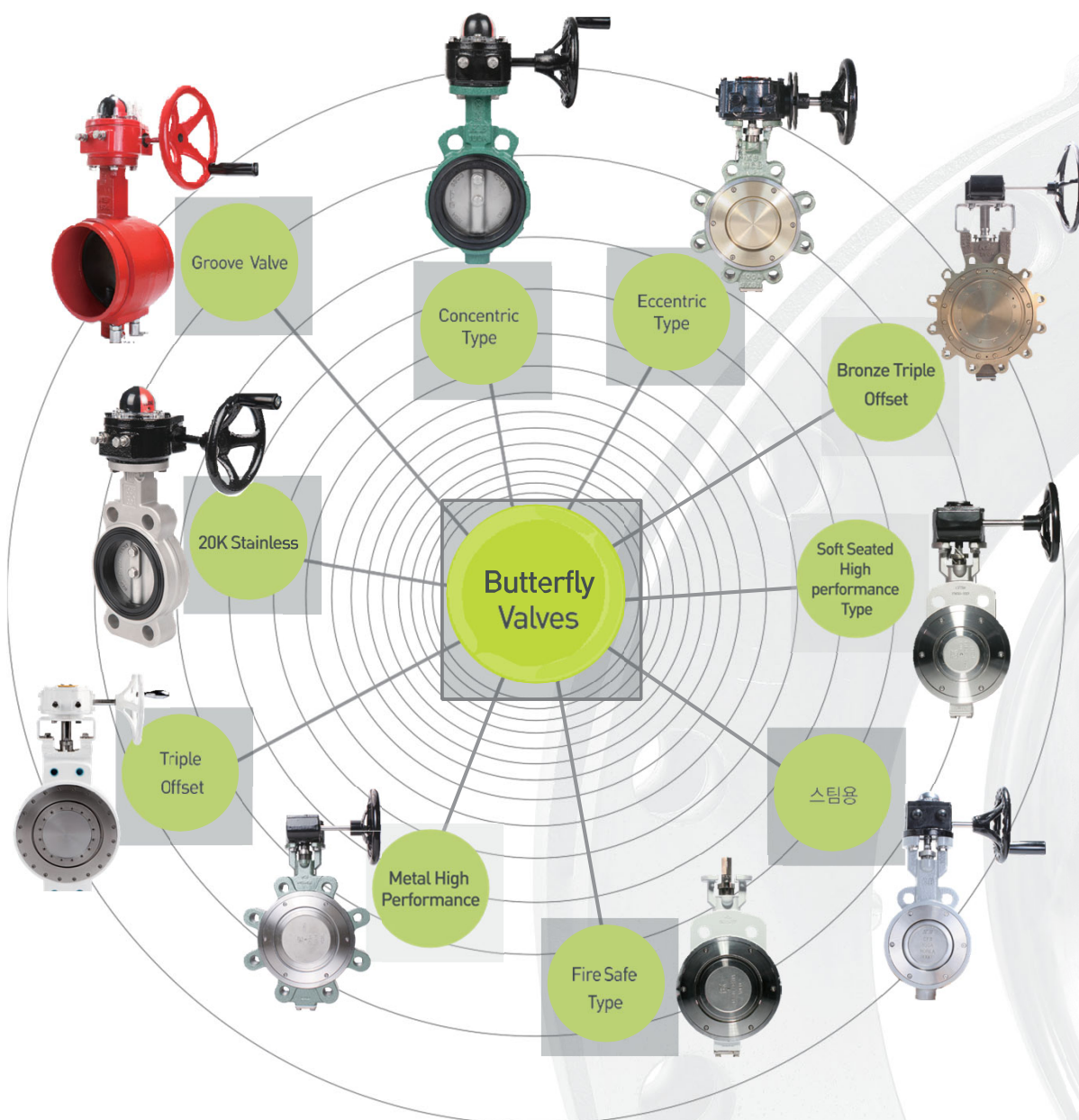


		KBHWG-10K	KBHW- 16K(20K)
FLUID		STEAM	
TEMPERATURE		-250°C	
OPERATION		GEAR, LEVER, ACTUATOR	
ALLOWABLE PRESSURE		MAX 10 kgf/cm ²	MAX 16 (20) kgf/cm ²
TEST PR.	DISC	11 kgf/cm ²	18 (22) kgf/cm ²
	BODY	15 kgf/cm ²	24 (30) kgf/cm ²

MATERIAL		
BODY	GDC450/SSC13/SSC14/C95800	
DISC	SSC13/SSC14/CF8/CF8M/C95800	SSC13/SSC14/CF8/CF8M/C95800
SEAT	PTFE, RTFE, 304, 316	PTFE, RTFE, 304, 316
STEM	STS304, 316, C63000	STS304, 316, C63000



1		L	ΦD	H1	H2	H3	STEM		Flange Drilling(10K)				Top flange(ISO5211)	
inch	mm						ΦS	CH	ΦP	N	n	h	ΦB	N-H
50A	2"	43	100	70	146	41	Φ14	10	120	4	2	Φ19	70	4-Φ10
65A	2 ½"	46	116	76	156	41	Φ14	10	140	4	2	Φ19	70	4-Φ10
80A	3"	46	134	85	178	41	Φ14	10	150	8	2	Φ19	70	4-Φ10
100A	4"	52	151	95	185	41	Φ14	12	175	8	2	Φ19	70	4-Φ10
125A	5"	56	180	128	202	41	Φ18	15	210	8	2	Φ23	70	4-Φ10
150A	6"	56	208	155	233	41	Φ20	15	240	8	2	Φ23	70	4-Φ10
200A	8"	60	264	178	258	41	Φ28	20	290	12	2	Φ23	102	4-Φ12



SPECIFICATION	Thermoplastic Seat	Metal Seat	Rubber Lined Seat	Special Application
Type	High performance type	High performance type Triple offset type	Concentric type	Groove type
Pressure Range	Ansi Class 150/KS 10K	Ansi Class 150/300	Ansi Class 125/150	Ansi Class 125/150
Size Range	2" ~ 48"	2" - 48"	2"-48"	2"-12"
Temperature	~250°C	~450°C	-30°C ~120°C	-30°C -120°C
Application	- Oil & Gas industry - Semiconductor line - Shipbuilding industry - Chemical plant - Energy plants - Food industry - Steel works - Steam Application	- Oil & Gas industry - Shipbuilding industry - Chemical plant - Energy plants - Food industry - Steel works - Steam Application	- Water works - Construction industry - Shipbuilding industry - DHC & Air conditioning - Steam Application	- Water works - Construction industry - Shipbuilding industry - DHC & Air conditioning - Steam Application
Material	- Iron (Gray iron, Ductile iron) - Steel (Carbon steel, Stainless Steel, (Super) Duplex Stainless Steel) - Copper Alloy (Al-Ni-Bronze, Brass, etc.) - Special Alloy (Hastelloy, Titanium, etc.)			

TECHNICAL REFERENCE

- Torque Value
- Seat Material Characteristics.
- Bolt & Nut & Washer for Valve Connection

Torque values are required for valve operation

Actuator torques can be calculated using the following formulas.

$$T_a = T_b + T_s + T_h = 1.2T_b \pm T_d$$

$$T_s = C_s D^2$$

$$T_b = 4.17 D^2 \text{ dfp}$$

$$T_d = C_t D^3 P$$

$$T_h = 3.06 D^4 \frac{Q}{V}$$

$$V = C_f V_P = \frac{0.758 D^2}{P}$$

- T_a : The required actuator torque (lb-ft)
- T_s : Seat or unseating torque (lb-ft)
- T_d : Dynamic torque (lb-ft)
- Q : Flow (cubic foot per second)
- V : Velocity (feet per second)
- D : Diameter of valve (feet)
- d : Diameter of shaft (inch)
- P : Pressure drop across valve (psi)
- C_s : Coefficient of seating or unseating torque
- C_t : Coefficient of dynamic torque
- C_f : Coefficient of flow
- f : Bearing friction coefficient

TORQUE TABLE

SIZE		CONCENTRIC TYPE									
mm	inch	3bar		5bar		10bar		13bar		16bar	
		kg-m	Nm	kg-m	Nm	kg-m	Nm	kg-m	Nm	kg-m	Nm
50A	2	0.58	5.64	0.72	7.06	0.9	8.82	1.08	10.58	1.40	13.72
65A	2 1/2	0.72	7.06	0.9	8.82	1.26	12.35	1.51	14.81	1.95	19.11
80A	3	0.94	9.17	1.17	11.47	1.62	15.88	1.94	19.05	2.45	24.01
100A	4	1.08	10.58	1.35	13.23	1.8	17.64	2.16	21.17	2.55	24.99
125A	5	1.66	16.23	2.07	20.29	2.7	26.46	3.24	31.75	4.00	39.20
150A	6	2.02	19.76	2.52	24.7	3.42	33.52	4.1	40.22	4.95	48.51
200A	8	5.13	50.27	6.42	62.85	14.72	144.21	17.66	173.05	25.40	248.92
250A	10	10.08	98.78	13.32	130.54	23.13	226.67	27.76	272.01	38.50	377.30
300A	12	17.64	172.87	22.05	216.09	31.5	308.7	37.8	370.44	48.50	475.30
350A	14	29.52	289.3	36.9	361.62	52.2	511.56	62.64	613.87	72.50	710.50
400A	16	36.72	359.86	45.9	449.82	64.8	635.04	77.76	762.05	85.00	833.00
450A	18	47.34	463.93	57.33	561.83	88.65	868.77	106.38	1042.52	151.00	1479.80
500A	20	60.84	596.23	76.05	745.29	124.2	1217.16	149.04	1460.59	185.00	1813.00

Seat Material Characteristics

▪Below information is the general characteristics of seat material, just for the general usage. ▪Please consult with the seat manufacturer in the case of special usage

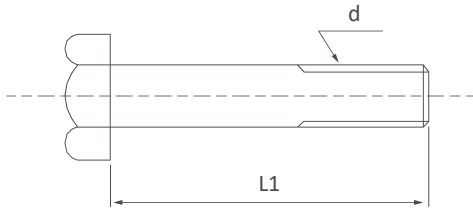
▪The decision of seat material shall be decided by the user

MATERIAL	GENERAL APPLICATION	SERVICE TEMPERATURE	NOT RECOMMENDED FOR
EPDM	Fresh Water Sea Water Brine Esters Alkalis Ozone Alcohols Brake Fluid Treated Water With Caustic	-20°C to +90°C (for intermittent operation) 0°C ~ 100°C (Allowable temperature in continuous use)	Hydrocarbons Oils Fats Greases
NBR	Fresh Water Sea Water Treated Water With Caustic Hydrocabons Natural Gas Oil and Fat Air Gasoline	-10°C to +90°C (Allowable temperature in continuous use) 0°C ~ 70 (L-NBR -50°C to 70°C)	Solvents Benzene Xylol
VITON	Acids and Alkalis Acids, Oils Hydrocarbons	-20 to +80°C -10°C to +230°C	Steam, Ester Freon22, Alkalis Solvents, Ketones
SILICONE		-20°C to +140°C	Steam Solvents Hydrocarbons
TEFLON	Solvents Corrosive Products Ketones	-50°C to + 230°C (PTFE -196°C to + 230°C)	Fluid Containing Powders Alkaline Gaseous Fluorine
NEOPRENE	Acid, Ozone, Oils Fats Greases Solvents	-18°C to +90°C	Ketones, Thinners Concentrated Acids

HSKB VALVE

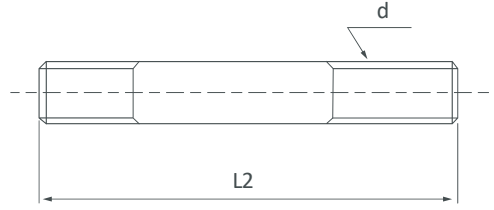
BOLT & NUT & WASHER for VALVE CONNECTION

HEXAGON BOLT



d : Bolt Dia L1, L2 : Bolt Length
N : Bolt Q'ty

STUD BOLT



d x L1(L2) X N

BOLT & NUT & WASHER FOR THE CONNECTION OF VALVE

SIZE		10K	16K/20K
		dx L1(L2) x N	dx L1(L2) x N
50A	2"	M16 X 100(130) X 4	M16 X 100(130) X 8
65A	2.5"	M16 X 110(140) X 4	M16 X 110(140) X 8
80A	3"	M16 X 110(140) X 8	M20 X 120(150) X 8
100A	4"	M16 X 120(150) X 8	M20 X 140(190) X 8
125A	5"	M20 X 130(160) X 8	M22 X 150(180) X 8
150A	6"	M20 X 140(170) X 8	M22 X 150(180) X 12
200A	8"	M20 X 140(170) X 12	M22 X 160(190) X 12
250A	10"	M22 X 150(180) X 12	M24 X 180(220) X 12
300A	12"	M22 X 160(190) X 16	M24 X 190(230) X 16
350A	14"	M22 X 160(190) X 16	M30 X 190(230) X 16
400A	16"	M24 X 200(240) X 16	M30 X 240(280) X 16
450A	18"	M24 X 210(250) X 20	M30 X 250(290) X 20
500A	20"	M24 X 220(260) X 20	M30 X 280(320) X 20
600A	24"	M30 X 250(290) X 24	M36 X 310(360) X 24

Valve Master!

HS KB VALVE



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