



SH **신흥밸브공업주식회사**
SHIN HEUNG VALVE INDUSTRY CO., LTD.

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- Korean Address : Shin Heung Valve
- E-mail : shvalve@shvalve.co.kr

STAINLESS STEEL VALVES



We are a high technology supplier opening a path to the 21st century.

■ 회사 연혁

- 1983. 2. 신흥공업사 설립(학장동)
- 1996. 10. 스텐주조부 설립
- 1998. 12. 국제규격 ISO 9002 획득
- 1999. 3. 유망중소기업 선정
- 1999. 5. 수출지원대상업체로 지정
- 1999. 9. 신흥밸브공업사 공장신축 확장 이전 (녹산공단)
- 2000. 1. 법인업체로 등록 신흥밸브공업(주)
- 2000. 11. 외국인 연수생 연수업체 선정
- 2000. 12. 병역특례업체 선정
- 2001. 3. LG필립스 업체 등록
- 2002. 6. SK케미칼 업체 등록
- 2004. 4. 미국석유협회 API 6D 인증
- 2004. 5. 삼성 ENG 업체 등록
- 2004. 5. 공장중축 CNC 선반 인덕스적 부착 3대 추가설치
[현 12대 보유]
- 2004. 8. 부산영업소 개소(감전동)
- 2008. 10. (주)효성 업체 등록
- 2011. 2. 삼성전자 업체 등록
- 2013. 6. 양산 산막산업단지 내 공장신축 확장 이전
- 2015. 11. 영암소 신축 이전
- 2015. 11. KC인증 획득

■ History of Company

- 1983. 2. Establishment of Sin Heung Industry Company (Hakjang-dong)
- 1996. 10. Establishment of Stain Casting Section
- 1998. 12. Gained International Standard ISO 9002
- 1999. 3. Selected as hopeful medium-small corporation
- 1999. 5. Nominated as company subject to export support company
- 1999. 9. Newly establishment of Shin Heung Valve Industry Company and Transferred to Noksan Industry Complex
- 2000. 1. Registered as corporation, Shin Heung Valve Industry Co., Ltd.
- 2000. 11. Nominated as training company for trainees of foreigners
- 2000. 12. Nominated as military force special case company
- 2001. 3. Registered LG Phillips company
- 2002. 6. Registered SK Chemical corporation
- 2004. 4. Recognition of API 6D of America Petroleum Corporation
- 2004. 5. Registered as a corporation of Samsung ENG.
- 2004. 5. Enlargement of Plant
3 Units of CNC shelf Indux was additionally Installed(At present obtained 12 units)
- 2004. 8. Opened Busan business Office (Kamjeon-dong)
- 2008. 10. Registered Hyosung Corporation
- 2011. 2. Registered Samsung Electronics
- 2013. 6. Expanded Relocation of New Factory in Yangsan Sanmakgongdan
- 2015. 11. Expanded Relocation of Business Office
- 2015. 11. Acquired Authentication KC



사무동 전경

**21세기
고객의 성원과 사랑에 힘입은 신흥밸브공업(주)
의 무한한 가능성의 세계!**

20여년의 밸브사업 영위로 밸브 관련 제품 생산에 있어서 독보적인 전문성과 숙련된 기술을 축적한 신흥밸브공업(주)는 새로운 세계로 도약 하고자 합니다. 신흥밸브공업(주)는 흥미롭고 고무적인 분위기속에서 고객과 함께 연구하고 배워 나갈 것이며 또한 공존의 기업윤리를 지킬 것을 약속드립니다. 신흥밸브공업(주)는 최고 품질의 제품 공급뿐 아니라 고객의 욕구와 시장 NEEDS를 충족시키기 위해 최선을 다할 것입니다.

**21st Century
Unlimited potentiality world of Shin Heung Valve Industry Co., Ltd. be indebted from encouragement and love of the customers!**

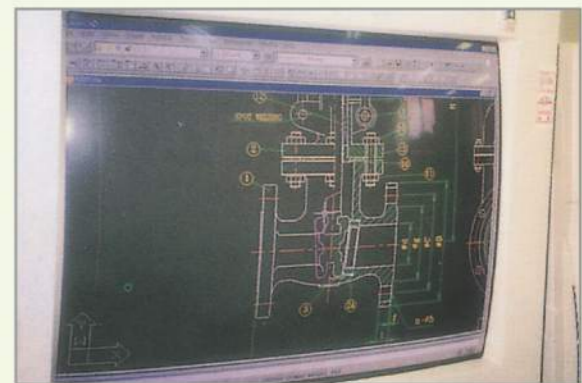
Shin Heung Valve Industry Co., Ltd. who has the unique speciality and skilled technology in the related products of Valve within about 20 years will try to jump to the new world. Shin Heung Valve Industry Co., Ltd. will study and learn together with customers in atmosphere with an interest and encouraging attitude and will promise to keep the coexistent corporation morals. Shin Heung Valve Industry Co., Ltd. will do our best efforts to satisfy desire of the customers and NEEDS of market as well as supply of products of the most better quality.



We have been doing our best.

“ THE BEST QUALITY ”
“ THE BEST SERVICE ”
“ THE ENDLESS DEVELOPMENT ”





Casting

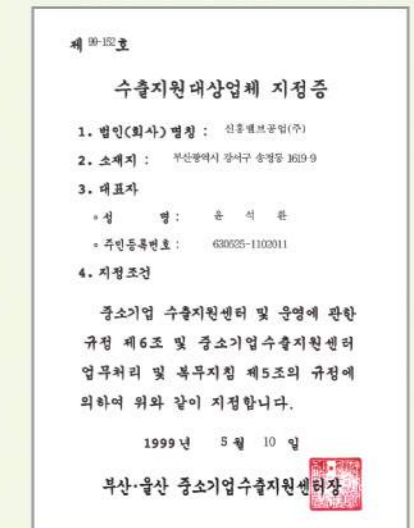
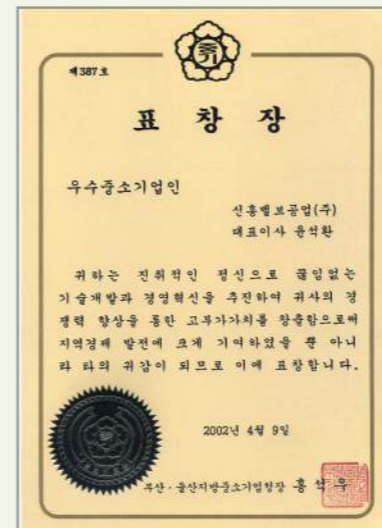
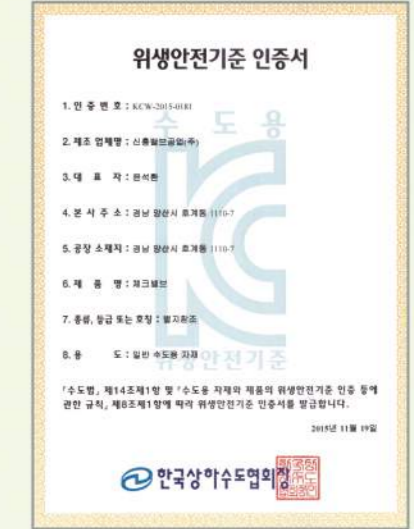
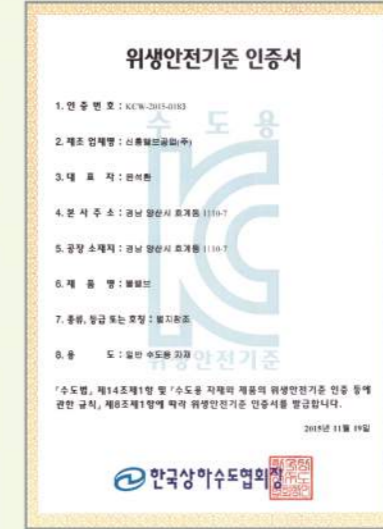
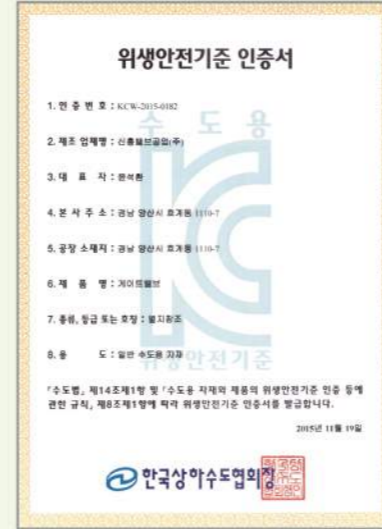


Business Office & Handling Articles



Warehouse of Finished Goods





위생안전기준 인증서

1. 인증번호 : KCW-2015-0182

2. 제조업체명 : 신홍밸브공업(주)

3. 대표자 : 윤석환

4. 본사주소 : 경남 양산시 호계동 1110-7

5. 공장소재지 : 경남 양산시 호계동 1110-7

6. 제품명 : 게이트밸브, 볼밸브, 체크밸브

7. 종류, 등급 또는 호칭 : 별지참조

8. 용도 : 일반 수도용 자재

「수도법」 제14조제1항 및 「수도용 자재와 제품의 위생안전기준 인증 등에 관한 규칙」 제8조제1항에 따라 위생안전기준 인증서를 발급합니다.

2015년 11월 19일

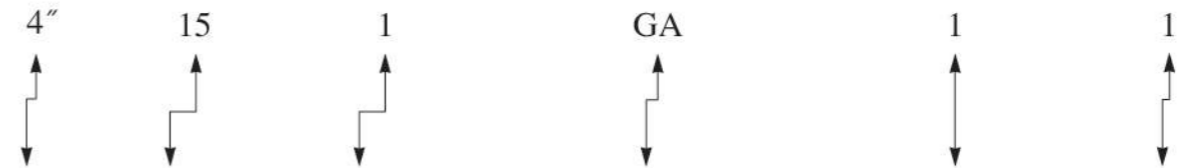


· FIGURE NUMBER	13	· SIGHT GLASS (CROSS) 제관	40
· GATE VALVE	14~17	· SIGHT GLASS(CROSS, LANTERN)	41
· GLOBE VALVE	18~21	· FOOT VALVE	42
· SWING CHECK VALVE	22~25	· TANK VALVE	42~43
· Y-STRAINER VALVE	26~29	· JACKET BALL VALVE	44
· Y-TYPE STRAINER (제관)	29	· JACKET GATE VALVE	45
· BUCKET-TYPE STRAINER	30~31	· JACKET GLOBE VALVE	46
· CRANE-TYPE STRAINER	32	· JACKET SWING CHECK VALVE	47
· U-TYPE BUCKET STRAINER	33	· JACKET Y-STRAINER	48
· T-TYPE STRAINER (제관)	34	· DUO CHECK VALVE	49
· TEMPORARY STRAINER	35	· Y-3-WAY BALL VALVE (다이버터)	50~51
· 2-WAY BALL VALVE	36	· BUTTERFLY VALVE	52
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· BALL VALVE(SCR' D)	39	· KNIFE GATE VALVE	55
· SIGHT GLASS(SCR' D)	40	· ENGINEERING DATE	56~74

FIGURE NUMBER

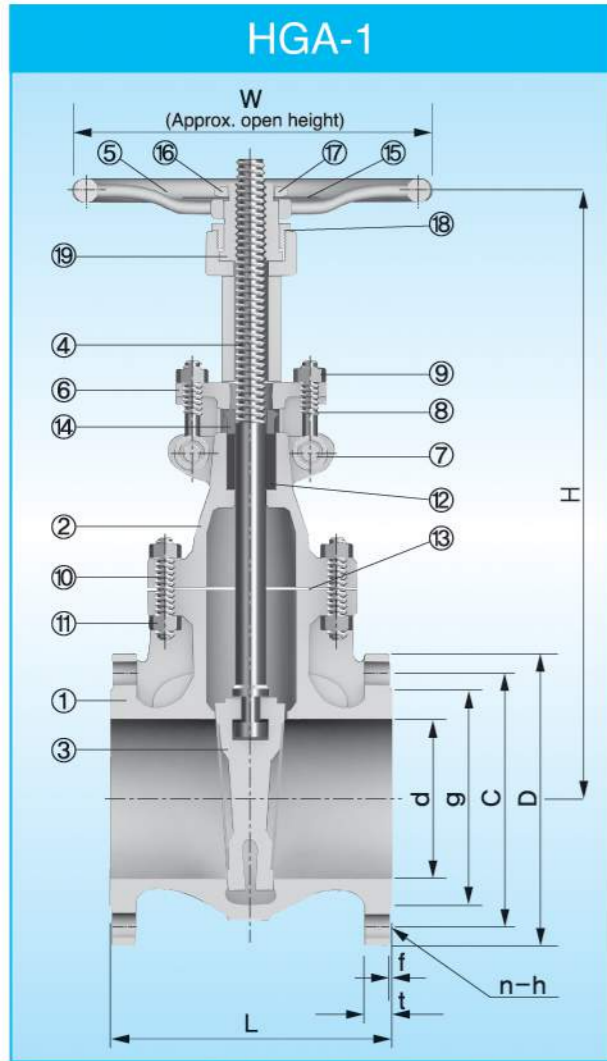
HOW TO ORDER CLASS 150 THROUGH 600

DESCRIPTION OF EXAMPLE FIGURE NUMBER ! 4" 15 1 GA 1 1
4" CLASS 150 Bolted Bonnet, OS & Y, Flanged End Gate Valve A 351 CF8



SIZE	RATING	MATERIAL	TYPE	ENDCONNECTION	TRIM
1/2"	10 : 10K	1 : A351 CF8	GA : GATE	1 : RF	1 : 304
3/4"	20 : 20K	2 : A351 CF8M	GL : GLOBE	2 : BW	2 : 316
1"	40 : 40K	3 : A351 CF3	CH : SWING CHECK	3 : RTJ	3 : 304L
1 1/2"	15 : 150LB	4 : A351 CF3M	3WY : 3-WAY BALL Y-TYPE	4 : FF	4 : 316L
2"	30 : 300LB		3WT : 3-WAY BALL T-TYPE	5 : SCRCD	5 : 317
3"	60 : 600LB		YS : Y-STRAINER		6 : MONEL
4"			BS : B-STRAINER		
5"			FT : FOOT VALVE		
6"			TA : TANK		
8"			SG : SIGHT GLASS		
10"			JGA : JACKET GATE		
12"			JCH : JACKET CHECK		
14"			JGL : JACKET GLOBE		
16"			JB : JACKET BALL		
18"			KG : KNIFE GATE		
			BT : BUTTERFLY		
			DOU : DOU CHECK		
			WGA : WATER GATE		
			PC : PAN CHECK		
			BA : BALL		

CAST STAINLESS STEEL GATE VALVE BB OS & Y 10K, 20K



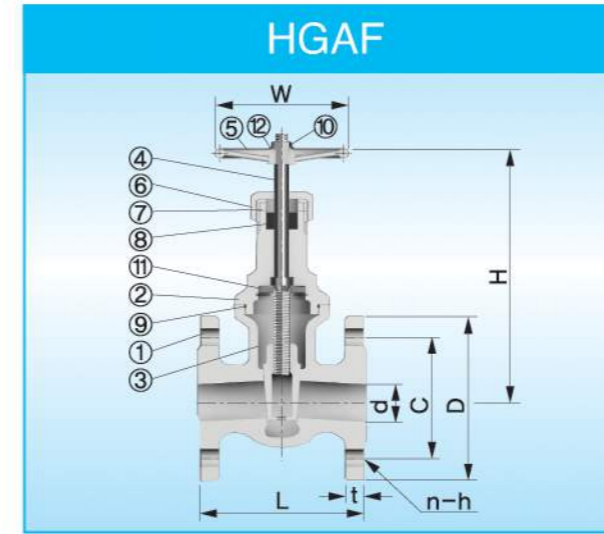
PARTS OF MATERIAL					
No	PARTS NAME	KS SPECIFICATIONS CORROSION SERVICE			REMARKS
1	BODY	SCS 13	SCS 14	SCS 16	
2	BONNET	SCS 13	SCS 14	SCS 16	
3	DISC	SCS 13	SCS 14	SCS 16	
4	STEM	STS 304	STS 316	STS 316L	
5	HAND WHEEL	GCD 40	GCD 40	GCD 40	
6	GLAND FLANGE	SCS 13	SCS 13	SCS 13	
7	HINGE PIN	STS 304	STS 304	STS 304	
8	HINGE BOLT	STS 304	STS 304	STS 304	
9	HINGE NUT	STS 304	STS 304	STS 304	
10	BONNET BOLT	STS 304	STS 304	STS 304	
11	BONNET NUT	STS 304	STS 304	STS 304	
12	PACKING	P.T.F.E	P.T.F.E	P.T.F.E	
13	GASKET	P.T.F.E	P.T.F.E	P.T.F.E	
14	GLAND RING	STS 304	STS 316	STS 316L	
15	NAME PLATE	ALP	ALP	ALP	
16	WHEEL NUT	SB 41	SB 41	SB 41	
17	SET SCREW	SB 41	SB 41	SB 41	
18	SLEEVE NUT	STS 304	STS 304	STS 304	
19	YOKE SLEEVE	BC 6/GCD 40	BC6/GCD 40	BC6/GCD 40	

NOTE 1. Packing & gasket material : customer's requirements

■ DIMENSION (mm)

CLASS	SIZE DIMENSION	SIZE																											
		IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	22	24	26	28					
10K	L : FACE TO FACE (RF)	108	117	127	140	165	178	190	203	229	254	267	292	330	356	381	406	432	457	483	508	559	600	650	700				
	H : VALVE OPEN HEIGHT	195	195	230	255	270	320	370	430	525	635	730	850	1125	1327	1450	1650	1750	2100	2215	2460	3015	3239						
	W : HAND WHEEL DIA.	100	100	125	125	180	180	200	200	240	280	280	320	400	400	550	550	550	600	Gear	Gear	Gear							
20K	L : FACE TO FACE (RF)	140	152	165	178	190	216	241	283	305	381	403	419	457	502	762	838	914	991	1092	1143	1245	1346						
	H : VALVE OPEN HEIGHT				290	357	412	475	550	626	753	968	1170	1340	1671	1880	2150	2510	2645	2784	3218	3312							
	W : HAND WHEEL DIA.				180	200	200	240	280	320	320	400	400	600	600	700	800	Gear	Gear	Gear									
40K	L : FACE TO FACE (RF)	165	190	216	229	241	292	330	356	432	508	559	660	787	838	889	991	1092	1194										
	H : VALVE OPEN HEIGHT				405	455	500	608	670	774	1020	1280																	
	W : HAND WHEEL DIA.				200	250	315	355	400	450	500	710																	

GATE VALVE SCREW BONNET TYPE 10K



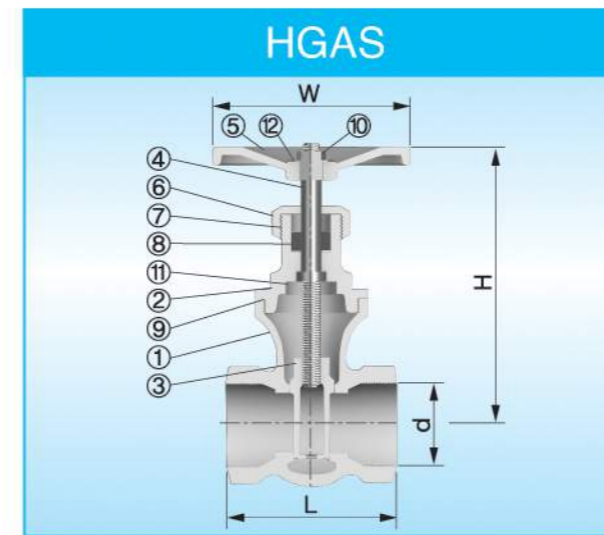
PARTS OF MATERIAL				
No	PARTS NAME	KS SPECIFICATIONS CORROSION SERVICE		REMARKS
1	BODY	SCS 13		
2	BONNET	SCS 13		
3	DISC	SCS 13		
4	STEM	STS 304		
5	HAND WHEEL	GCD 40		
6	GLAND NUT	SCS 13		
7	GLAND	STS 304		
8	PACKING	P.T.F.E		
9	GASKET	P.T.F.E		
10	WHEEL NUT	STS 304		
11	STEM WASHER	STS 304		
12	WHEEL WASHER	STS 304		

NOTE 1. Packing & gasket material : customer's requirements

■ DIMENSION (mm)

CLASS	SIZE DIMENSION	SIZE									
		IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
10K	L : FACE TO FACE (RF)	86	92	101	110	121	140	171	192	214	
	H : VALVE HEIGHT	122	130	139	147	165	185	232	267	315	
	W : HAND WHEEL DIA.	100	100	100	100	125	140	180	180	200	

GATE VALVE SCREW TYPE 10K



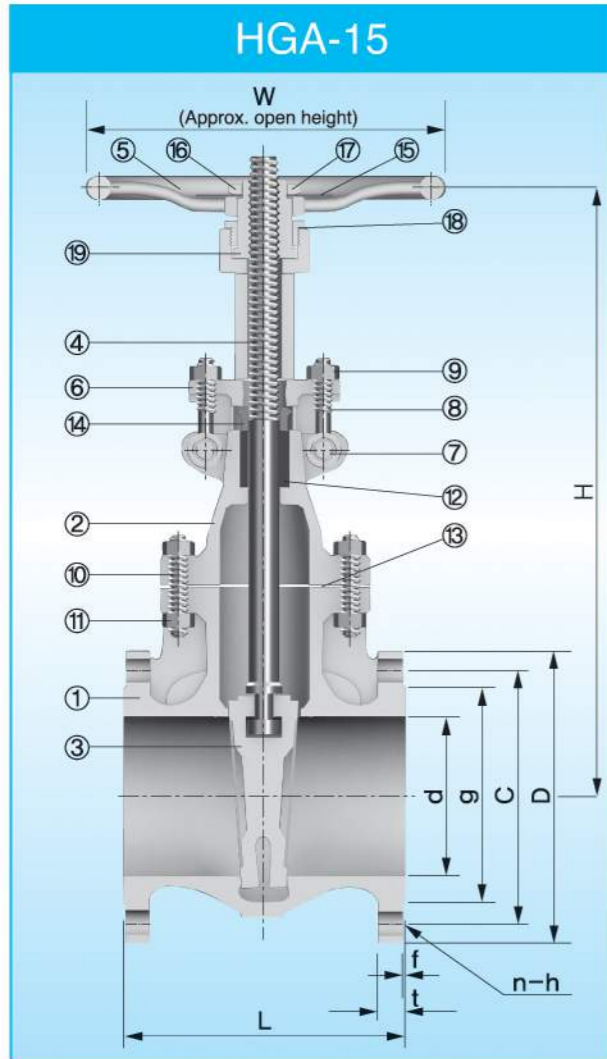
PARTS OF MATERIAL				
No	PARTS NAME	KS SPECIFICATIONS CORROSION SERVICE		REMARKS
1	BODY	SCS 13		
2	BONNET	SCS 13		
3	DISC	SCS 13		
4	STEM	STS 304		
5	HAND WHEEL	GCD 40		
6	GLAND NUT	SCS 13		
7	GLAND	STS 304		
8	PACKING	P.T.F.E		
9	GASKET	P.T.F.E		
10	WHEEL NUT	STS 304		
11	STEM WASHER	STS 304		
12	WHEEL WASHER	STS 304		

NOTE 1. Packing & gasket material : customer's requirements

■ DIMENSION (mm)

CLASS	SIZE DIMENSION	SIZE					
		IN	1/2	3/4	1	1 1/4	1 1/2
10K	L : FACE TO FACE	58	61	69	75	84	94
	H : VALVE HEIGHT	115	117	143	147	168	178
	W : HAND WHEEL DIA.	62	62	83	83	100	100

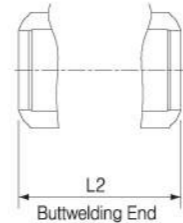
CAST STAINLESS STEEL GATE VALVE BB OS & Y 150LB, 300LB



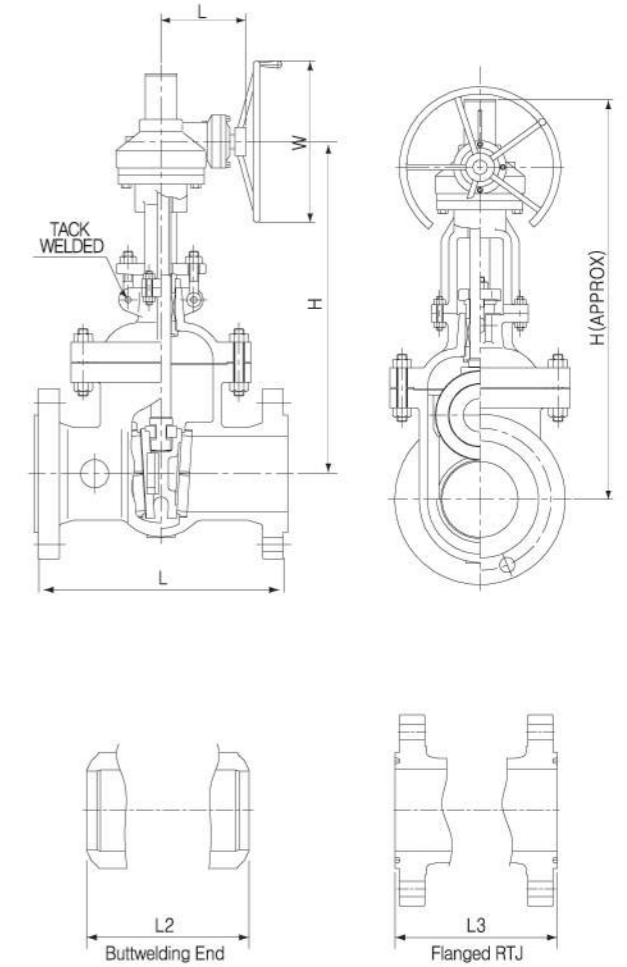
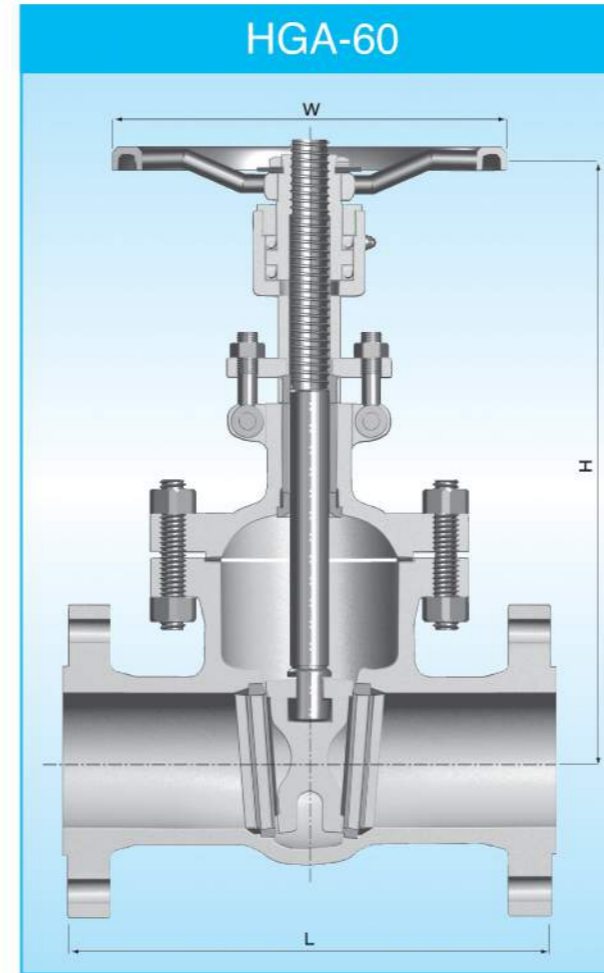
PARTS OF MATERIAL

No	PARTS NAME	ASTM SPECIFICATIONS CORROSION SERVICE			REMARKS
1	BODY	A351 CF8	A351 CF8M	A351 CF3M	
2	BONNET	A351 CF8	A351 CF8M	A351 CF3M	
3	DISC	A351 CF8	A351 CF8M	A351 CF3M	
4	STEM	A276 304	A276 316	A276 316L	
5	HAND WHEEL	A536 60	A536 60	A536 60	
6	GLAND FLANGE	A351 CF8	A351 CF8	A351 CF8	
7	HINGE PIN	A276 304	A276 304	A276 304	
8	HINGE BOLT	A193 B8	A193 B8	A193 B8	
9	HINGE NUT	A194 8	A194 8	A194 8	
10	BONNET BOLT	A193 B8	A193 B8	A193 B8	
11	BONNET NUT	A194 8	A194 8	A194 8	
12	PACKING	P.T.F.E	P.T.F.E	P.T.F.E	
13	GASKET	P.T.F.E	P.T.F.E	P.T.F.E	
14	GLAND RING	A276 304	A276 316	A276 316L	
15	NAME PLATE	A240 304	A240 304	A240 304	
16	WHEEL NUT	A307 B	A307 B	A307 B	
17	SET SCREW	A307 B	A307 B	A307 B	
18	SLEEVE NUT	A351 CF8	A531 CF8	A351 CF8	
19	YOKE SLEEVE	BC 6/GCD 40	BC6/GCD 40	BC6/GCD 40	

NOTE 1. Packing & gasket material : customer's requirements



GATE VALVE BOLT BONNET TYPE CLASS 600 / 900



■ BB GATE 600LB TABLE

VALVE SIZE	inch	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24	28	30
mm		50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750
L & L2 (RF)&(BW)	inch	11.5	13	14	17	20	22	26	31	33	35	39	43	47	55	61	65
mm		292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397	1549	1651
L3 (RTJ)	inch	11.62	13.12	14.12	17.12	20.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38	61.5	65.5
mm		295	333	359	435	511	562	663	790	841	892	994	1095	1200	1407	1562	1664
H (OPEN HEIGHT)	inch	15.35	16.93	18.68	24.13	29.84	32.60	40.59	55.12	63.39	70.47	78.35	84.65	94.09	117.52	138.5	151.2
mm		390	430	500	613	758	828	1031	1400	1610	1790	1990	2150	2390	2985	3518	3840
W (HANDWHEEL DIA.)	inch	7.87	8.82	9.84	13.98	15.75	17.72	19.69	27.95	27.95	31.5	31.5	31.5	31.5	31.5	31.5	31.5
mm		200	224	250	355	400	450	500	710	710	800	800	800	800	800	800	800

■ BB GATE 900LB TABLE

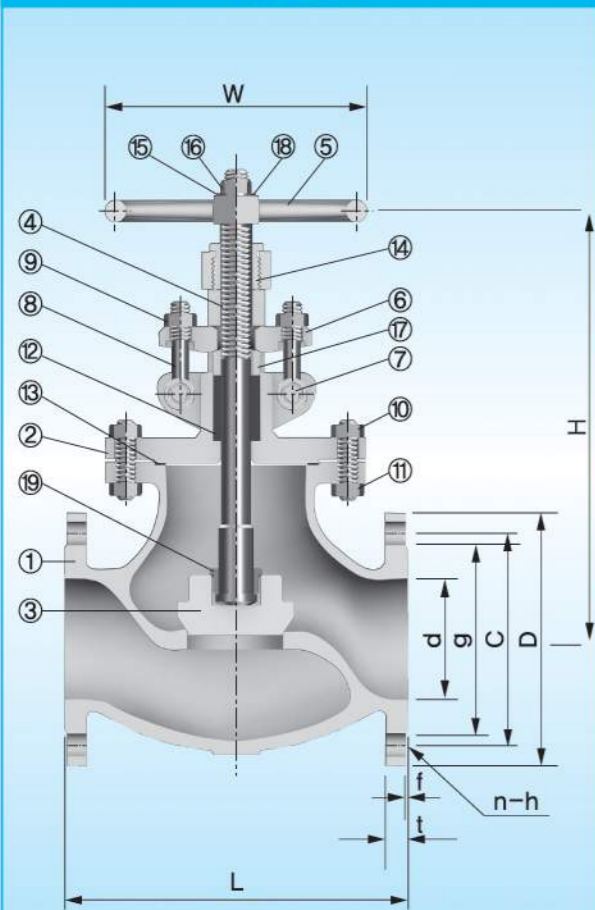
VALVE SIZE	inch	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24
mm		50	65	80	100	125	150	200	250	300	350	400	450	500	600
L & L2 (RF)&(BW)	inch	14.5	16.5	15	18	22	24	29	33	38	40.5	44.5	48	52	61
mm		368	419	381	457	559	610	737	838	965	1029	1130	1219	1321	1549
L3 (RTJ)	inch	14.62	16.62	15.12	18.12	22.12	24.12	29.12	33.12	38.12	40.88	44.88	48.5	52.5	61.75
mm		371	422	384	460	562	613	740	841	968	1038	1140	1232	1334	1568
H (OPEN HEIGHT)	inch	22.44	24.02	24.80	31.89	36.5	41.34	53.54	55.51	66.93	74.41	77.95	84.65	93.70	117.50
mm		570	610	630	810	927	1050	1360	1410	1700	1890	1980	2150	2380	2985
W (HANDWHEEL DIA.)	inch	9.84	9.84	12.4	13.98	15.75	17.72	19.69	19.69	27.95	31.5	31.5	31.5	31.5	31.5
mm		250	250	315	355	400	450	500	500	710	800	800	800	800	800

■ DIMENSION

CLASS	SIZE DIMENSION	(mm)																											
		IN	½	¾	1	1¼	1½	2	2½	3	4	5	6	8	10	12	14	16	18	20	22	24	26	28					
150LB	L : FACE TO FACE (RF)	108	117	127	140	165	178	190	203	229	254	267	292	330	356	381	406	432	457	483	508	559	610						
	L2 : FACE TO FACE (RF)	140	152	165	178	190	216	241	283	305	381	403	419	457	502	572	610	660	711	762	813	864	914						
	H : VALVE OPEN HEIGHT	195	195	230	255	270	320	370	430	525	635	730	850	1125	1327	1450	1650	1750	2100	2215	2460	3015	3239						
	W : HAND WHEEL DIA.	100	100	125	125	180	180	200	200	240	280	280	320	400	400	550	550	550	600	Gear	Gear	Gear							
300LB	L : FACE TO FACE (RF)	140	152	165	178	190	216	241	283	305	381	403	419	457	502	572	610	660	711	762	813	864	914						
	H : VALVE OPEN HEIGHT					290	357	412	475	550	626	753	968	1170	1340	1671	1880	2150	2510	2645	2784	3218	3312						
	W : HAND WHEEL DIA.					180	200	200	240	280	320	320	400	400	400	600	600	700	800	Gear	Gear	Gear							

CAST STAINLESS STEEL GLOBE VALVE 10K, 20K

HGL-1



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS CORROSION SERVICE			REMARKS
		SCS 13	SCS 14	SCS 16	
1	BODY	SCS 13	SCS 14	SCS 16	
2	BONNET	SCS 13	SCS 14	SCS 16	
3	DISC	STS 304	STS 316	STS 316L	
4	STEM	STS 304	STS 316	STS 316L	
5	HAND WHEEL	GCD 40	GCD 40	GCD 40	
6	GLAND FLANGE	SCS 13	SCS 14	SCS 16	
7	HINGE PIN	STS 304	STS 304	STS 304	
8	HINGE BOLT	STS 304	STS 304	STS 304	
9	HINGE NUT	STS 304	STS 304	STS 304	
10	BONNET BOLT	STS 304	STS 304	STS 304	
11	BONNET NUT	STS 304	STS 304	STS 304	
12	PACKING	P.T.F.E	P.T.F.E	P.T.F.E	
13	GASKET	P.T.F.E	P.T.F.E	P.T.F.E	
14	YOKE BUSH	BC 6/GCD 45	BC 6/GCD 45	BC 6/GCD 45	
15	NAME PLATE	ALP	ALP	ALP	
16	WHEEL NUT	SS 400	SS 400	SS 400	
17	GLAND RING	STS 304	STS 316	STS 316L	
18	PLATE WASHER	SS 400	SS 400	SS 400	
19	DISC NUT	STS 304	STS 316	STS 316L	

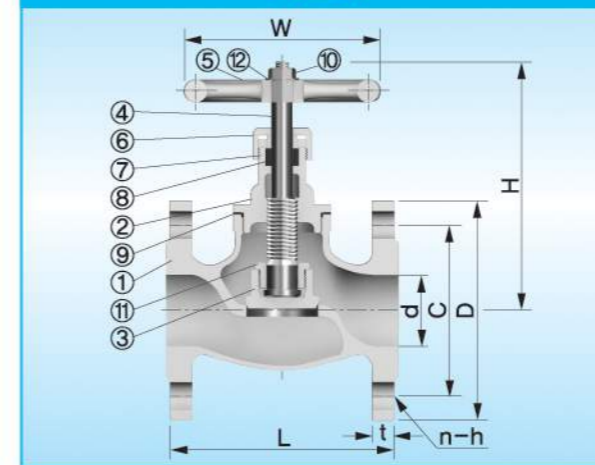
NOTE 1. Packing & gasket material : customer's requirements

■ DIMENSION

CLASS	SIZE DIMENSION	SIZE (mm)																					
		IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24		
10K	L : FACE TO FACE (RF)	108	117	127	140	165	203	216	241	292	356	406	495	622	698	787	914	978	978	1295			
	H : VALVE OPEN HEIGHT	190	198	198	240	250	280	330	360	380	460	480	560	650	736	1390	1590						
	W : HAND WHEEL DIA.	100	100	100	140	140	180	200	200	240	280	280	400	550	550	Gear	Gear						
20K	L : FACE TO FACE (RF)	152	178	203	216	229	267	292	318	356	400	444	559	622	711	838	864	978	1016	1346			
	H : VALVE OPEN HEIGHT					275	300	340	380	430	500	590	696	789	955	1390	1590						
	W : HAND WHEEL DIA.					180	180	200	240	240	355	400	400	450	Gear	Gear	Gear						
40K	L : FACE TO FACE (RF)	165	190	216	229	241	292	330	356	432	508	559	660	787	838	889	991	1092	1194				
	H : VALVE OPEN HEIGHT						520	570	510	615	680	780	995	1150									
	W : HAND WHEEL DIA.						250	315	355	450	450	450	500	800									

GLOBE VALVE SCREW BONNET TYPE 10K

HGLF



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS CORROSION SERVICE			REMARKS
		SCS 13	SCS 14	SCS 16	
1	BODY	SCS 13			
2	BONNET	SCS 13			
3	DISC	SCS 13			
4	STEM	STS 304			
5	HAND WHEEL	GCD 40			
6	GLAND NUT	SCS 13			
7	GLAND	STS 304			
8	PACKING	P.T.F.E			
9	GASKET	P.T.F.E			
10	WHEEL NUT	STS 304			
11	DISC NUT	STS 304			
12	WHEEL WASHER	STS 304			

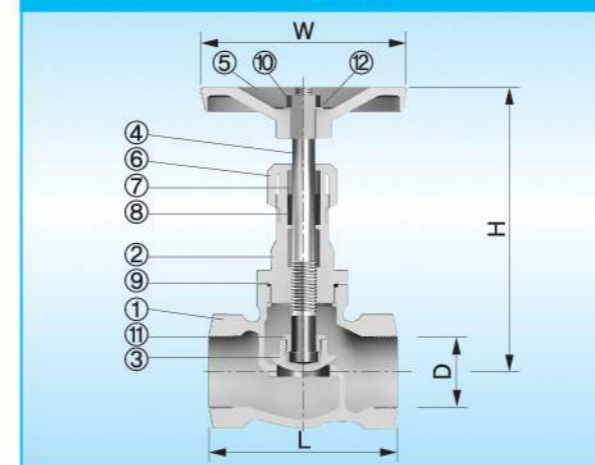
NOTE 1. Packing & gasket material : customer's requirements

■ DIMENSION

CLASS	SIZE DIMENSION	SIZE (mm)																					
		IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3													
10K	L : FACE TO FACE (RF)						136	158	211	211													
	H : VALVE HEIGHT						180	190	210	260													
	W : HAND WHEEL DIA.						140	140	200	200													

GLOBE VALVE SCREW TYPE 10K

HGLS



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS CORROSION SERVICE			REMARKS
		SCS 13	SCS 14	SCS 16	
1	BODY	SCS 13			
2	BONNET	SCS 13			
3	DISC	SCS 13			
4	STEM	STS 304			
5	HAND WHEEL	GCD 40			
6	GLAND NUT	SCS 13			
7	GLAND	STS 304			
8	PACKING	P.T.F.E			
9	GASKET	P.T.F.E			
10	WHEEL NUT	STS 304			
11	DISC NUT	STS 304			
12	WHEEL WASHER	STS 304			

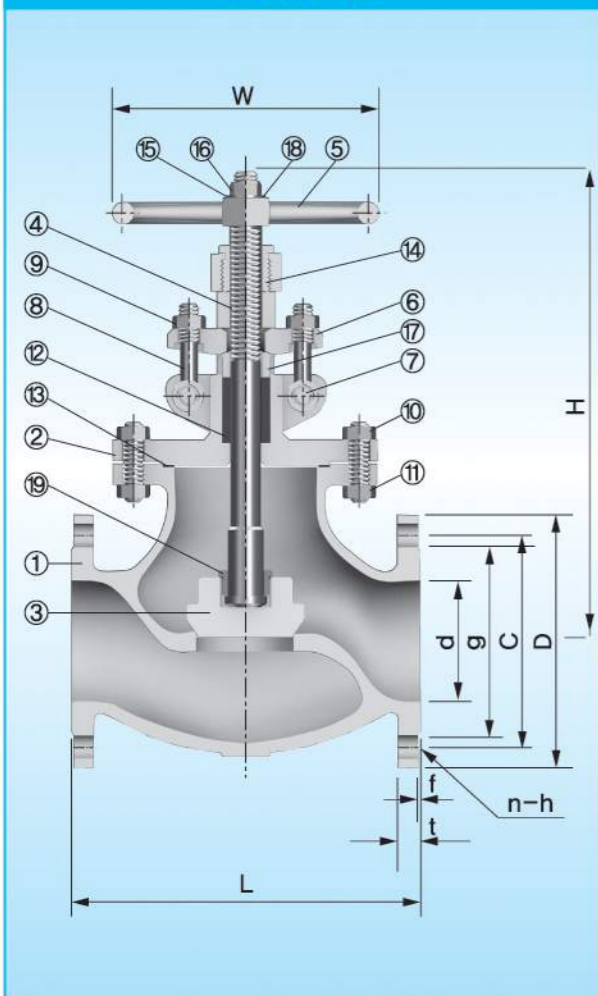
NOTE 1. Packing & gasket material : customer's requirements

■ DIMENSION

CLASS	SIZE DIMENSION	SIZE (mm)																					
		IN	1/2	3/4	1	1 1/4	1 1/2	2															
10K	L : FACE TO FACE	57	66	77	89	101	121																
	H : VALVE HEIGHT	110	130	140	145	170	180																
	W : HAND WHEEL DIA.	62	62	83	83	100	100																

CAST STAINLESS STEEL GLOBE VALVE 150LB, 300LB

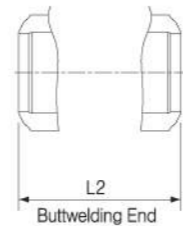
HGL-15



PARTS OF MATERIAL

No	PARTS NAME	ASTM SPECIFICATIONS CORROSION SERVICE			REMARKS
1	BODY	A351 CF8	A351 CF8M	A351 CF3M	
2	BONNET	A351 CF8	A351 CF8M	A351 CF3M	
3	DISC	A276 304	A276 316	A276 316L	
4	STEM	A276 304	A276 316	A276 316L	
5	HAND WHEEL	A536 60	A536 60	A536 60	
6	GLAND FLANGE	A351 CF8	A351 CF8M	A351 CF3M	
7	HINGE PIN	A276 304	A276 304	A276 304	
8	HINGE BOLT	A194 B8	A194 B8	A194 B8	
9	HINGE NUT	A193 8	A193 8	A193 8	
10	BONNET BOLT	A193 B8	A193 B8	A193 B8	
11	BONNET NUT	A194 8	A194 8	A194 8	
12	PACKING	P.T.F.E	P.T.F.E	P.T.F.E	
13	GASKET	P.T.F.E	P.T.F.E	P.T.F.E	
14	YOKE BUSH	BC 6/A536 60	BC 6/A536 60	BC 6/A536 60	
15	NAME PLATE	AL	AL	AL	
16	WHEEL NUT	A307 B	A307 B	A307 B	
17	GLAND RING	A276 304	A276 316	A276 316L	
18	PLATE WASHER	A307 B	A307 B	A307 B	
19	DISC NUT	A76 304	A76 316	A76 316L	

NOTE 1. Packing & gasket material : customer's requirements

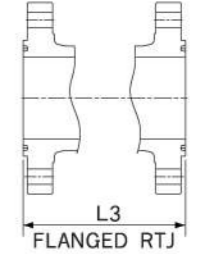
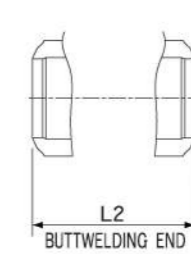
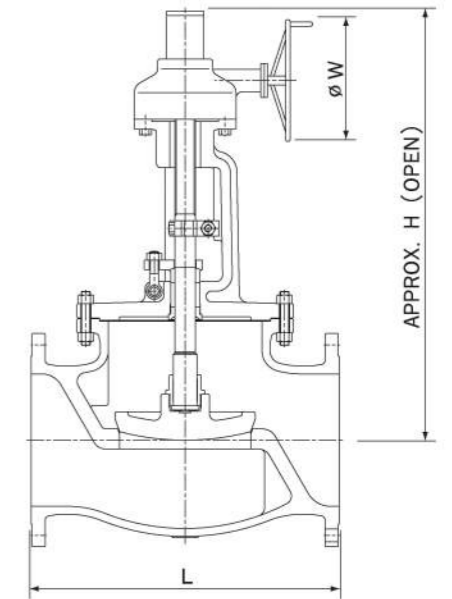
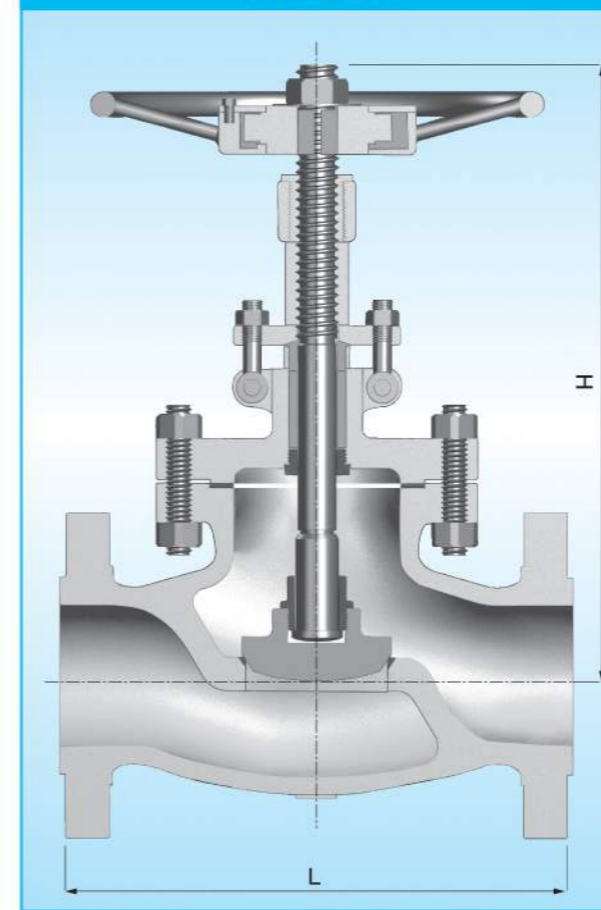


■ DIMENSION

CLASS	SIZE	DIMENSION (mm)																			
		IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
150LB	L & L2 : FACE TO FACE (RF)	108	117	127	140	165	203	216	241	292	356	406	495	622	698	787	914	978	978	1295	
	H : VALVE OPEN HEIGHT	190	198	230	240	250	280	330	360	380	460	480	560	650	736	1390	1590				
	W : HAND WHEEL DIA.	100	100	125	140	140	180	200	200	240	280	280	400	550	550	Gear	Gear				
300LB	L : FACE TO FACE (RF)	152	178	203	216	229	267	292	318	356	400	444	559	622	711	838	864	978	1016	1346	
	H : VALVE OPEN HEIGHT	134	148			275	300	340	380	430	500	590	696	789	955	1391	1590				
	W : HAND WHEEL DIA.					180	180	200	240	240	355	400	400	450	Gear	Gear	Gear				

GLOBE VALVE BOLT BONNET TYPE CLASS 600 / 900

HGL-60



■ BB GLOBE 600LB TABLE

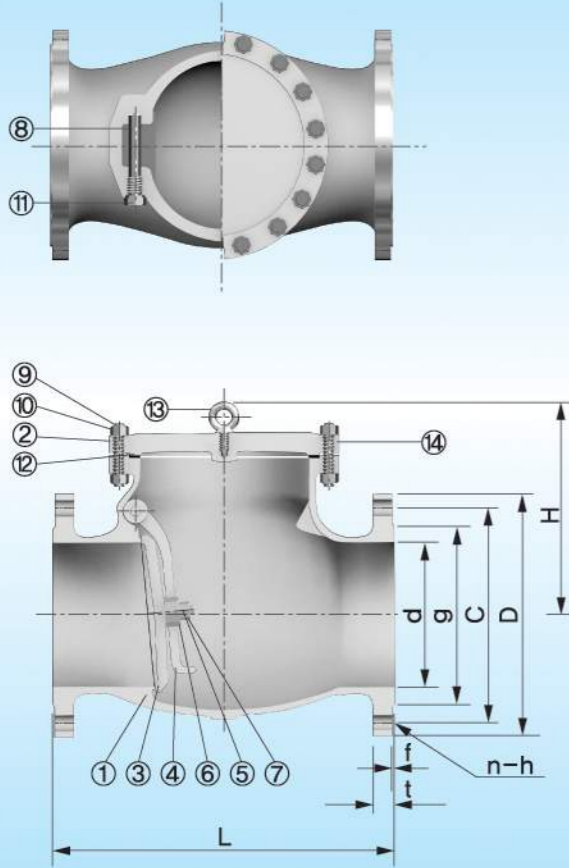
VALVE SIZE	inch	2	2.5	3	4	5	6	8	10	12
mm		50	65	80	100	125	150	200	250	300
L & L2 (RF)&(BW)	inch	11.5	13	14	17	20	22	26	31	33
mm		292	330	356	432	508	559	660	787	838
L3 (RTJ)	inch	11.62	13.12	14.12	17.12	20.12	22.12	26.12	31.12	33.12
mm		295	333	359	435	511	562	663	790	841
H (OPEN HEIGHT)	inch	20.47	22.44	23.62	31.50	35.43	39.76	47.24	55.12	59.84
mm		520	570	600	800	900	1010	1200	1400	1520
W (HANDWHEEL DIA.)	inch	9.84	12.4	13.98	17.72	17.72	17.72	19.69	31.5	31.5
mm		250	315	355	450	450	450	500	800	800

■ BB GLOBE 900LB TABLE

VALVE SIZE	inch	2	2.5	3	4	5	6	8	10	12
mm		50	65	80	100	125	150	200	250	300
L & L2 (RF)&(BW)	inch	14.5	16.5	15	18	22	24	29	33	38
mm		368	419	381	457	559	610	737	838	965
L3 (RTJ)	inch	14.62	16.62	15.12	18.12	22.12	24.12	29.12	33.12	38.12
mm		371	422	384	460	562	613	740	841	968
H (OPEN HEIGHT)	inch	22.05	23.23	25.20	31.89	36.61	41.34	53.54	61.81	66.93
mm		560	590	640	810	930	1050	1360	1570	1700
W (HANDWHEEL DIA.)	inch	12.4	13.98	13.98	15.75	19.69	19.69	27.56	31.5	31.5
mm		315	355	355	400	500	500	700	800	800

CAST STAINLESS STEEL SWING CHECK VALVE 10K, 20K

HCH-1



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS			REMARKS
		CORROSION SERVICE			
1	BODY	SCS 13	SCS 14	SCS 16	
2	COVER	SCS 13	SCS 14	SCS 16	
3	DISC	SCS 13	SCS 14	SCS 16	
4	ARM	SCS 13	SCS 14	SCS 16	
5	SPLIT PIN	STS 304	STS 316	STS 316L	
6	PLATE WASHER	STS 304	STS 316	STS 316L	
7	DISC NUT	STS 304	STS 316	STS 316L	
8	ROD PIN	STS 304	STS 316	STS 316L	
9	COVER BOLT	STS 304	STS 304	STS 304	
10	COVER NUT	STS 304	STS 304	STS 304	
11	PLUG	STS 304	STS 304	STS 304	
12	GASKET	P.T.F.E	P.T.F.E	P.T.F.E	
13	EYE BOLT	SS 400	SS 400	SS 400	

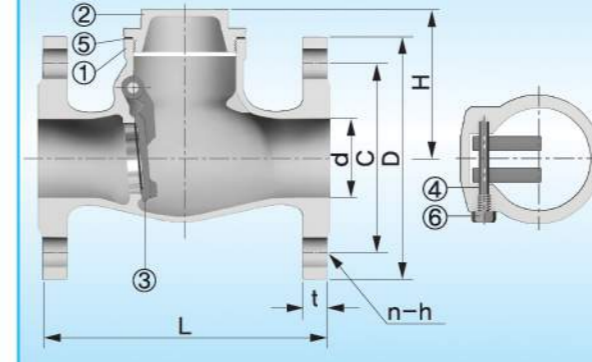
NOTE 1. gasket material : customer's requirements

■ DIMENSION

CLASS	SIZE	DIMENSION	(mm)																			
			IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
10K	L : FACE TO FACE (RF)		108	117	127	140	165	203	216	241	292	330	356	495	622	698	787	864	978	978	1295	
		H : VALVE HEIGHT	60	65	72	85	94	105	111	120	160	172	203	225	320	340	364	410	461	526	568	
20K	L : FACE TO FACE (RF)		140	152	216	229	241	267	292	318	356	400	444	533	622	711	838	864	978	1016		
		H : VALVE HEIGHT				117	126	136	153	167	200	225	260	345	390							
40K	L : FACE TO FACE (RF)		165	190	216	229	241	292	330	356	432	508	559	660	787	838	889	991	1092	1194		
		H : VALVE HEIGHT					191	200	241	257	293	321	380	446								

SWING CHECK VALVE SCREW BONNET TYPE 10K

HCHF



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS		REMARKS
		CORROSION SERVICE		
1	BODY	SCS 13		
2	COVER	SCS 13		
3	DISC	SCS 13		
4	ROD PIN	STS 304		
5	GASKET	P.T.F.E		
6	PLUG	STS 304		

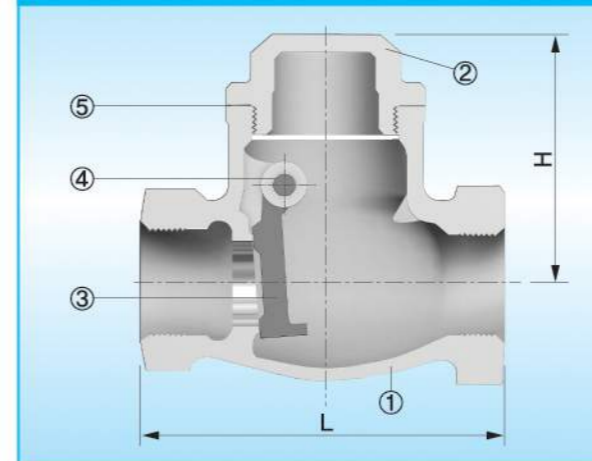
NOTE 1. gasket material : customer's requirements

■ DIMENSION

CLASS	SIZE	DIMENSION	(mm)									
			IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
10K	L : FACE TO FACE (RF)		108	117	127	136	148	181	205	240	292	
		H : VALVE HEIGHT	50	60	58	74	80	83	114	126	160	

SWING CHECK VALVE SCREW TYPE 10K

HCHS



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS		REMARKS
		CORROSION SERVICE		
1	BODY	SCS 13		
2	COVER	SCS 13		
3	DISC	SCS 13		
4	PLUG	STS 304		
5	GASKET	P.T.F.E		

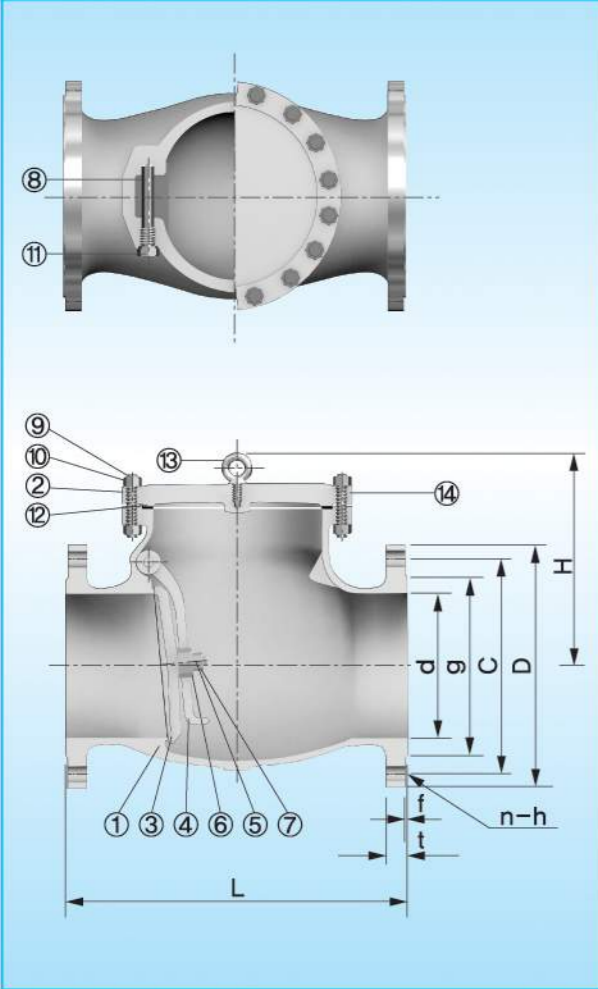
NOTE 1. gasket material : customer's requirements

■ DIMENSION

CLASS	SIZE	DIMENSION	(mm)						
			IN	1/2	3/4	1	1 1/4	1 1/2	2
10K	L : FACE TO FACE		65	73	89	107	121	129	
		H : VALVE HEIGHT	50	59	60	75	77	87	

CAST STAINLESS STEEL SWING CHECK VALVE 150LB, 300LB

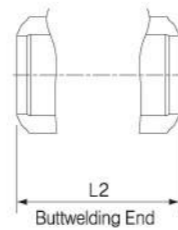
HCH-15



PARTS OF MATERIAL

No	PARTS NAME	ASTM SPECIFICATIONS CORROSION SERVICE			REMARKS
1	BODY	A351 CF8	A351 CF8M	A351 CF3M	
2	COVER	A351 CF8	A351 CF8M	A351 CF3M	
3	DISC	A351 CF8	A351 CF8M	A351 CF3M	
4	ARM	A351 CF8	A351 CF8M	A351 CF3M	
5	SPLIT PIN	A580 304	A580 316	A580 316L	
6	PLATE WASHER	A240 304	A240 316	A240 316L	
7	NUT	A194 8	A194 8M	A194 8M	
8	ROD PIN	A276 304	A276 316	A276 316L	
9	COVER BOLT	A193 B8	A193 B8	A193 B8	
10	COVER NUT	A194 8	A194 8	A194 8	
11	PLUG	A276 304	A276 304	A276 304	
12	GASKET	P.T.F.E	P.T.F.E	P.T.F.E	
13	EYE BOLT	A307 B	A307 B	A307 B	

NOTE 1. gasket material : customer's requirements

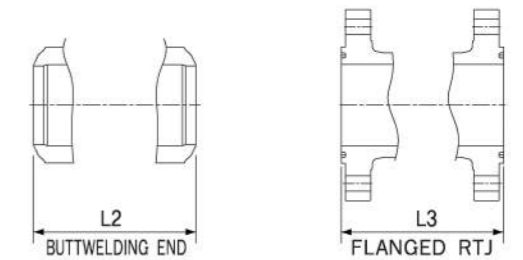
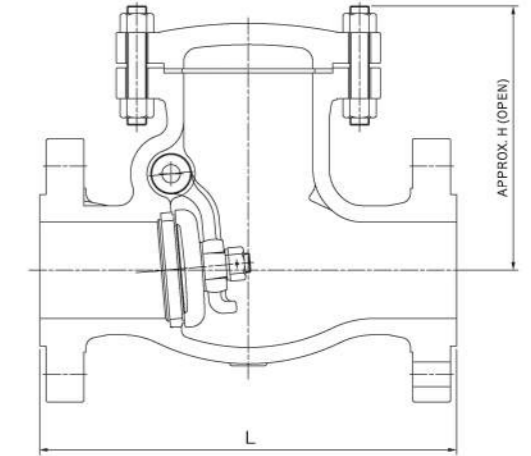
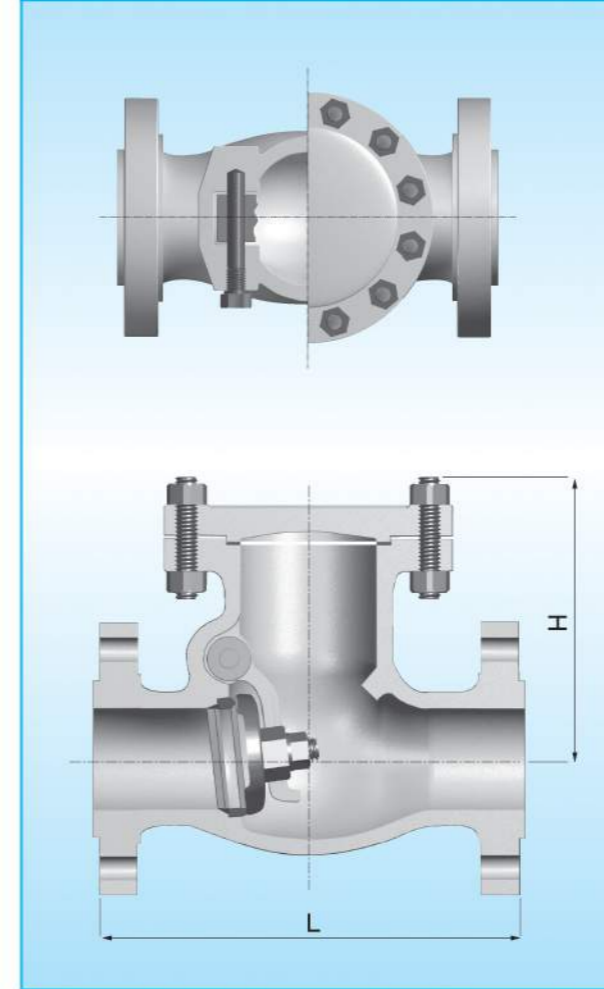


■ DIMENSION

CLASS	SIZE	DIMENSION (mm)																		
		IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20
150LB	L & L2 : FACE TO FACE (RF)	108	117	127	140	165	203	216	241	292	330	356	495	622	698	787	864	978	978	1295
	H : VALVE HEIGHT	60	65	72	85	94	105	111	120	160	172	203	225	320	340	364	410	461	526	568
300LB	L : FACE TO FACE (RF)	140	152	216	229	241	267	292	318	356	400	444	533	622	711	838	864	978	1016	
	H : VALVE HEIGHT				117	126	136	153	167	200	225	260	345	390						

SWING CHECK VALVE BOLT COVER CLASS 600 / 900

HCH-60



■ BC SW-CH 600LB TABLE

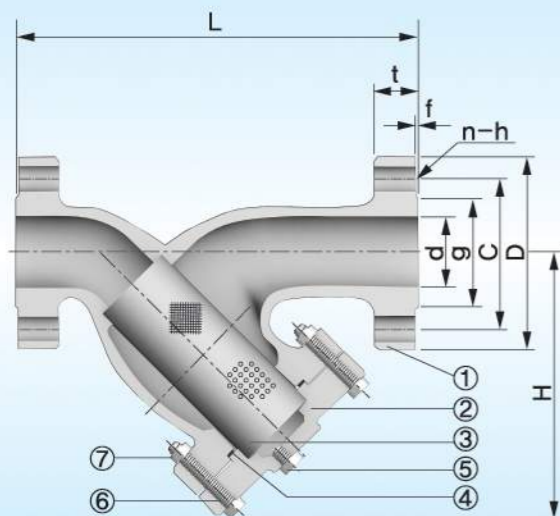
VALVE SIZE	inch	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24	28	30
	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750
L & L2 (RF)&(BW)	inch	11.5	13	14	17	20	22	26	31	33	35	39	43	47	55	63	65
	mm	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397	1600	1651
L3 (RTJ)	inch	11.62	13.12	14.12	17.12	20.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38	63.5	65.5
	mm	295	333	359	435	511	562	663	790	841	892	994	1095	1200	1407	1613	1664
H (VALVE HEIGHT)	inch	7.50	7.87	9.50	10.10	11.54	12.65	14.96	17.55	18.50	21.75	26.50	27.75	29.55	31.50	34.5	38.5
	mm	191	200	241	257	293	321	380	446	470	552	673	705	751	800	876	978

■ BC SW-CH 900LB TABLE

VALVE SIZE	inch	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24
	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L & L2 (RF)&(BW)	inch	14.5	16.5	15	18	22	24	29	33	38	40.5	44.5	48	52	61
	mm	368	419	381	457	559	610	737	838	965	1029	1130	1219	1321	1549
L3 (RTJ)	inch	14.62	16.62	15.12	18.12	22.12	24.13	29.12	33.12	38.12	40.88	44.88	48.5	52.5	61.75
	mm	371	422	384	460	562	613	740	841	968	1038	1140	1232	1334	1568
H (VALVE HEIGHT)	inch	7.87	9.06	9.84	11.42	12.34	12.99	16.14	18.31	20.47	22.83	27.48	28.43	31.42	33.27
	mm	200	230	250	290	313	330	410	465	520	580	698	722	798	845

CAST STAINLESS STEEL Y-STRAINER 10K, 20K

HYS-1



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS			REMARKS
		CORROSION SERVICE			
1	BODY	SCS 13	SCS 14	SCS 16	
2	COVER	SCS 13	SCS 14	SCS 16	
3	SCREEN	STS 304	STS 316	STS 316L	MESH 40
4	GASKET	P.T.F.E	P.T.F.E	P.T.F.E	
5	PLUG	STS 304	STS 316	STS 316L	
6	COVER BOLT	STS 304	STS 304	STS 304	
7	COVER NUT	STS 304	STS 304	STS 304	

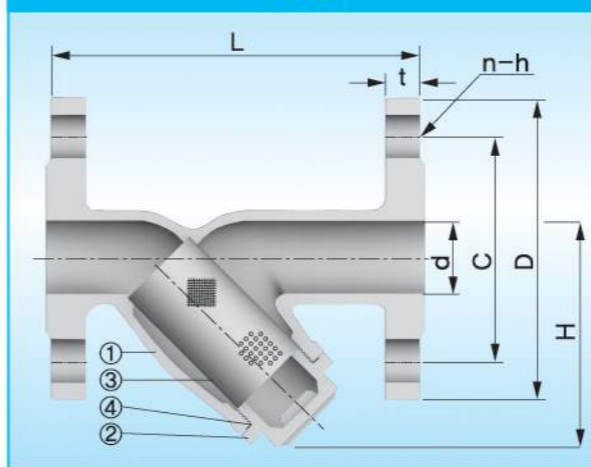
NOTE 1. gasket material : customer's requirements

■ DIMENSION

CLASS	SIZE	DIMENSION	SIZE																			
			IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16			
		MM	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400				
10K	L : FACE TO FACE (RF)		136	140	160	200	200	232	268	287	340	392	438	540	672	774	800	875				
	H : VALVE HEIGHT		65	75	85	125	125	160	192	200	240	285	325	410	535	543	610	670				
20K	L : FACE TO FACE (RF)		140	140	165	200	207	230	280	318	350	395	470	575	710	845						
	H : VALVE HEIGHT		65	75	90	130	130	160	192	217	240	285	325	450	560							

Y-STRAINER SCREW BONNET TYPE 10K

HYSF



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS		REMARKS
		CORROSION SERVICE		
1	BODY	SCS 13		
2	COVER	SCS 13		
3	SCREEN	SUS 304		MESH 40
4	GASKET	P.T.F.E		

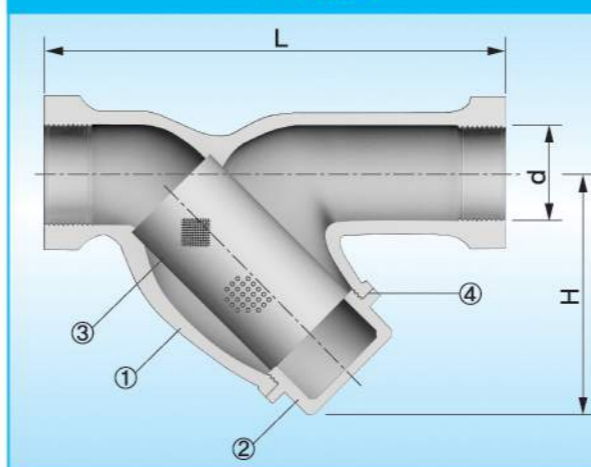
NOTE 1. gasket material : customer's requirements

■ DIMENSION

CLASS	SIZE	DIMENSION	SIZE														
			IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4					
		MM	15	20	25	32	40	50	65	80	100						
10K	L : FACE TO FACE (RF)		136	140	160	172	182	232	268	287	340						
	H : VALVE HEIGHT		57	59	66	72	92	120	182	190	230						

Y-STRAINER SCREW TYPE 10K

HYSS



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS		REMARKS
		CORROSION SERVICE		
1	BODY	SCS 13		
2	COVER	SCS 13		
3	SCREEN	SUS 304		MESH 30
4	GASKET	P.T.F.E		

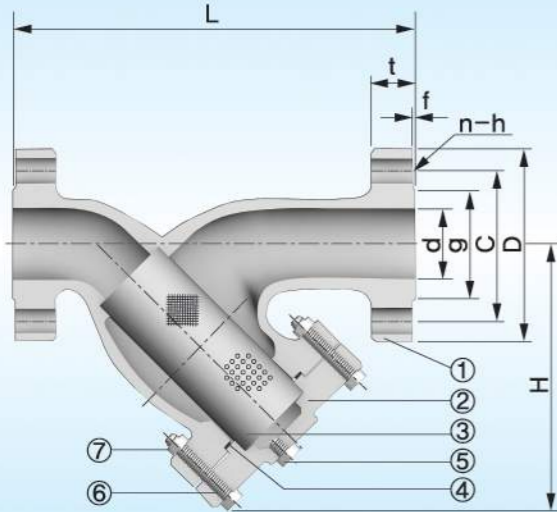
NOTE 1. gasket material : customer's requirements

■ DIMENSION

CLASS	SIZE	DIMENSION	SIZE									
			IN	1/2	3/4	1	1 1/4	1 1/2	2			
		MM	15	20	25	32	40	50				
10K	L : FACE TO FACE		77	95	106	126	145	177				
	H : VALVE HEIGHT		54	58	73	74	106	114				

CAST STAINLESS STEEL Y-STRAINER 150LB, 300LB

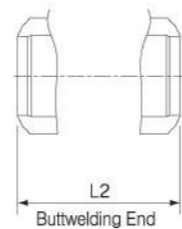
HYS-15



PARTS OF MATERIAL

No	PARTS NAME	ASTM SPECIFICATIONS			REMARKS
		CORROSION SERVICE			
1	BODY	A351 CF8	A351 CF8M	A351 CF3M	
2	COVER	A351 CF8	A351 CF8M	A351 CF3M	
3	SCREEN	A240 304	A240 316	A240 316L	MESH 40
4	GASKET	P.T.F.E	P.T.F.E	P.T.F.E	
5	PLUG	A276 304	A276 316	A276 316L	
6	COVER BOLT	A193 B8	A193 B8	A193 B8	
7	COVER NUT	A194 8	A194 8	A194 8	

NOTE 1. gasket material : customer's requirements

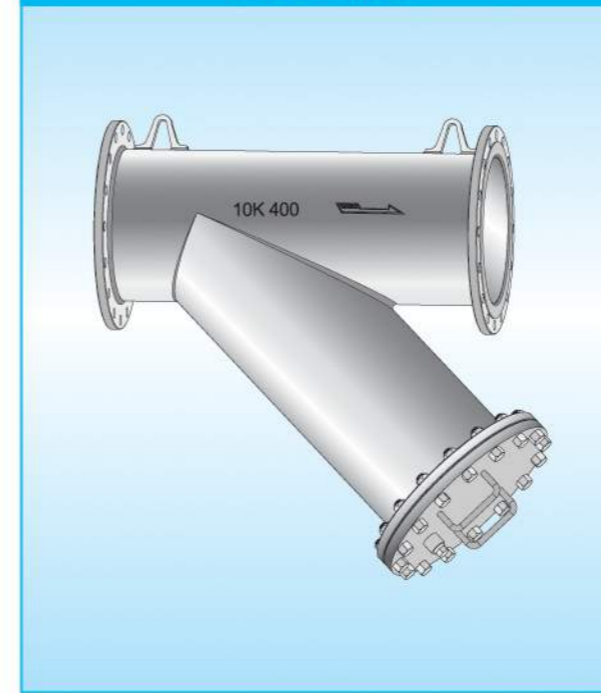


■ DIMENSION

CLASS	SIZE	DIMENSION (mm)																		
		IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16		
150LB	L & L2 : FACE TO FACE (RF)	136	140	160	200	200	232	268	287	340	392	438	540	672	774	800	875			
	H : VALVE HEIGHT	65	75	85	125	125	160	192	200	240	285	325	410	535	543					
300LB	L : FACE TO FACE (RF)	140	140	165	200	207	260	280	318	350	395	470	575	710	845					
	H : VALVE HEIGHT	65	75	90	130	130	160	192	217	240	285	325	450	560						

Y - TYPE STRAINER

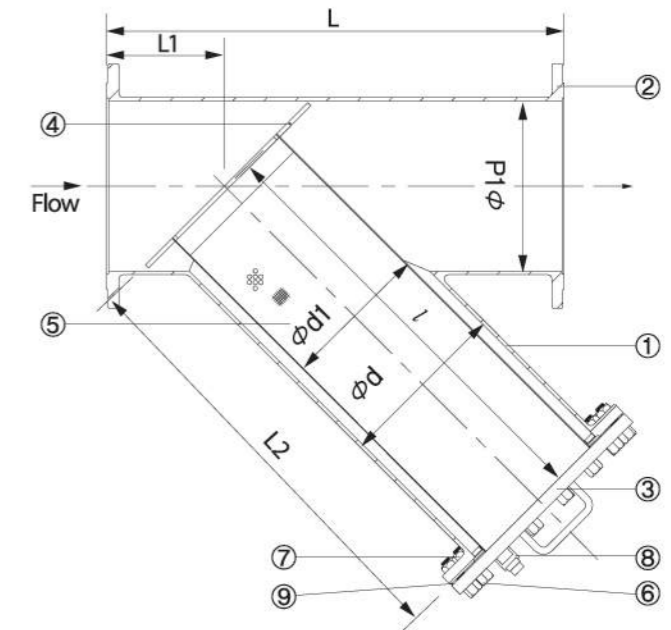
HYS-W1



PARTS OF MATERIAL

No	PARTS NAME	MATERIAL
1	BODY PIPE	STS / SC
2	FLANGE	STS / SC
3	COVER FLANGE	STS / SC
4	ELEMENT SEAT	STS / SC
5	SCREEN	STS
6	BOLTS	B7
7	NUTS	2H
8	PLUG	STS / SC
9	GASKET	

NOTE 1. Packing & gasket material : customer's requirements

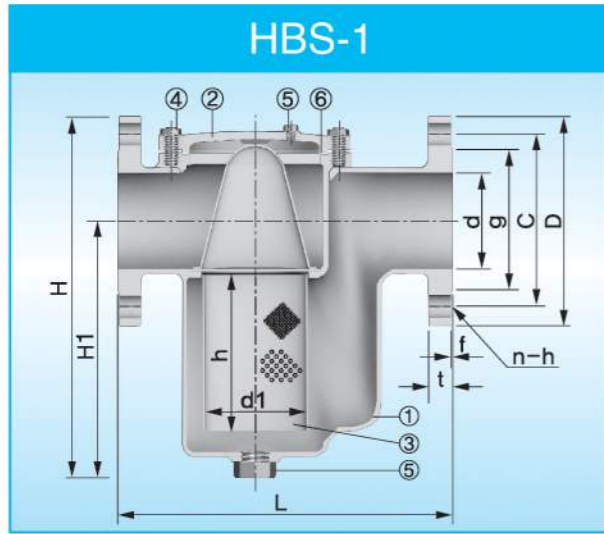


- Y형 STRAINER는 통상 원통형의 ELEMENT를 하부로 경사지게 부착하는 형으로 비교적 설치가 간편하다.
- ELEMENT가 원통형이며 SEAT가 COVER에 정확히 장착되어 있으므로 미여과 유체의 BYPASS가 전혀없다.
- 접속FLANGE는 주문사양에 따라 제작가능하며 재질은 표준품외에 STAINLESS 및 합금강 등 각종재질로 생산된다.
- 두께는 설계압력, 온도 및 부식정도에 따라 변경되고 부속품도 각용도 및 사용상에 적합하도록 구비되어 있다.

■ DIMENSION

DIMENSION	SIZE	DIMENSION (mm)															
		1B	1 1/2B	2B	2 1/2B	3B	4B	5B	6B	8B	10B	12B	14B	16B	18B	20B	
d		34.0	48.6	60.5	76.3	89.1	114.3	139.8	165.2	216.3	267.4	318.5	355.6	406.4	457.0	508.2	
L		270	280	290	320	320	400	450	480	580	680	800	930	1050	1200	1300	
L1		60	70	80	85	90	105	110	120	150	190	210	255	270	310	340	
L2		195	235	255	295	326	366	420	462	551	656	756	880	1015	1115	1215	
Element	d1	24	34	37	52	60	80	110	120	170	220	250	300	340	400	450	
	ℓ	191	231	236	245	305	345	391	430	512	617	717	834	877	938	1009	
Plug(PT)		1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	

BUCKET TYPE STRAINER 10K, 20K (150LB, 300LB)



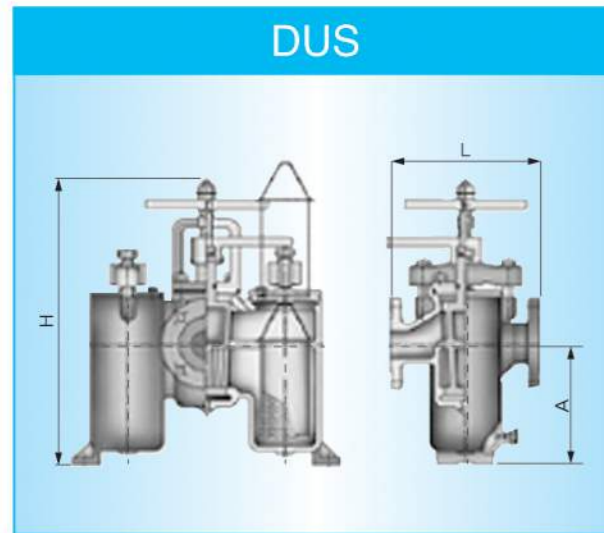
PARTS OF MATERIAL					
No	PARTS NAME	KS SPECIFICATIONS CORROSION SERVICE			REMARKS
1	BODY	SCS 13	SCS 14	SCS 16	
2	COVER	SCS 13	SCS 14	SCS 16	
3	SCREEN	STS 304	STS 316	STS 316L	MESH 40
4	COVER BOLT	STS 304	STS 304	STS 304	
5	DRAIN PLUG	STS 304	STS 304	STS 304	
6	GASKET	P.T.F.E.	P.T.F.E.	P.T.F.E.	

NOTE 1. gasket material : customer's requirements

■ DIMENSION

CLASS	SIZE	IN	DIMENSION															
			MM	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	
10K	L : FACE TO FACE (RF)	180	180	180	230	230	230	280	300	350	450	500	555	670	770			
	H : VALVE HEIGHT	150	150	160	194	194	205	270	275	360	480	520	565	670	773			
150LB	H1:	90	90	110	150	150	155	210	220	270	350	400	410	470	550			
	d1:	34	34	40	50	50	60	80	90	110	140	170	200	250	300			
	h :	55	55	67	90	90	95	120	140	170	240	260	275	310	360			

DUPLEX STRAINERS 10K, 150LB



PARTS OF MATERIAL		
적용유체	Applicable Fluid	Water, Oil
적용압력	Applicable Inlet Pressure	Max, 20kgf/cm ²
적용온도	Applicable Temperature	Max, 80°C(Max, 120°C 주문제작)
접속방법	End Connections	KS 20K RF Flanged
수압시험	Hydrostatic Test	30kgf/cm ² - 3분
재질 Materials	Body Cover	Cast Steel, Stainless Steel
	Screen	Stainless Steel (STS 304)
	Cock	Cast Bronze
	Gasket	Asbestos

● 접속방식 ANSI, DIN, BS Flange 규격은 주문생산임

● BALL TYPE 주문생산

■ DIMENSION

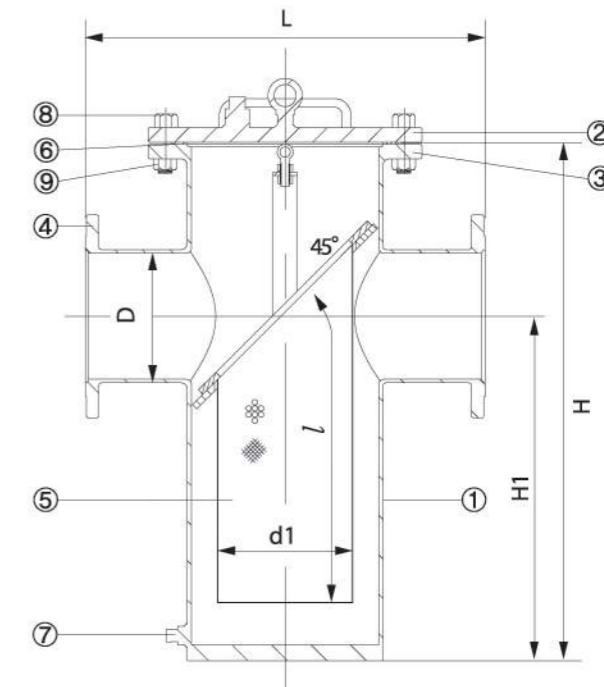
SIZE	L	A	H	H1	Weight(kg)	SIZE	L	A	H	H1	Weight(kg)
25A	250	150	360	230	60	100A	406	336	765	580	220
40A	270	215	500	370	70	125A	510	400	1,050	790	350
50A	300	220	500	390	75	150A	570	550	1,140	810	550
65A	343	225	546	410	150	200A	580	550	1,140	810	600
80A	343	225	546	410	150	250A	750	845	1,630	1,100	1,750

BUCKET - TYPE STRAINER



PARTS OF MATERIAL		
No	PARTS NAME	MATERIAL
1	BODY	STS / CS
2	COVER	STS / CS
3	SHELL FLANGE	STS / CS
4	NOZZLE FLANGE	STS / CS
5	SCREEN	STS
6	GASKET	COMMERCAIL
7	PLUG	A105 / STS
8	BOLT	B7
9	NUT	2H

NOTE 1. Packing & gasket material : customer's requirements



● 수평배관에 설치하는 BUCKET STRAINER ELEMENT 면적이 넓어 투과에 유리함.

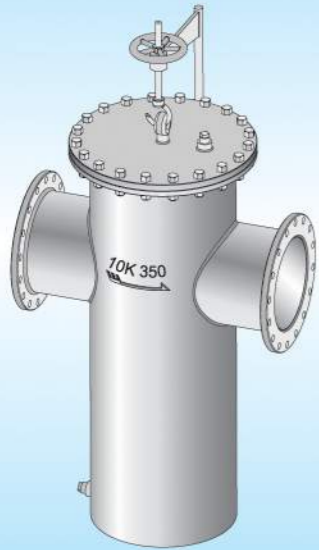
● CARBON STEEL, STAINLESS STEEL 등
● KS, JIS, ANSI 등의 규격에 준하여 제작.

■ DIMENSION

DIMENSION	SIZE	2B	3B	4B	6B	8B	10B	12B	14B	16B	18B	20B	24B
		50A	80A	100A	150A	200A	250A	300A	350A	400A	450A	500A	600A
D		60.5	89.1	114.3	165.2	216.3	267.4	318.5	355.6	406.4	457.2	508.0	609.6
L		350	400	500	580	650	800	850	950	1000	1100	1100	1400
H		340	400	480	650	840	1050	1250	1430	1650	1650	2000	2450
H1		190	220	280	400	560	700	850	980	1150	1100	1400	1750
Element	d1	70	100	130	180	220	280	320	380	420	480	520	620
	ℓ	140	170	220	330	480	600	740	870	1000	1000	1250	1550
Plug(PT)		1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"

CRANE - TYPE STRAINER

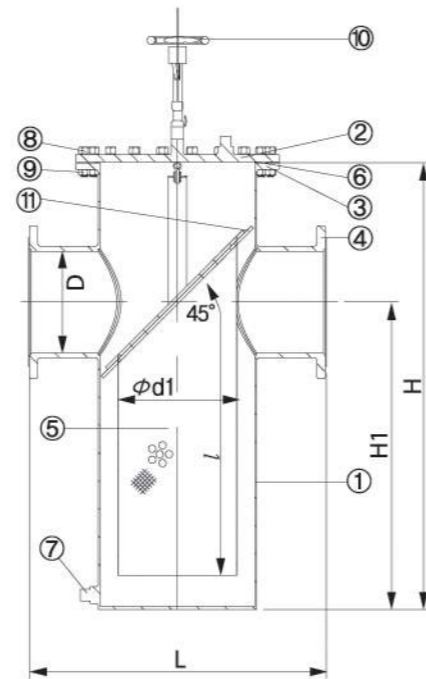
HBS-W1H



PARTS OF MATERIAL

No	PARTS NAME	MATERIAL
1	BODY	STS / CS
2	COVER	STS / CS
3	SHELL FLANGE	STS / CS
4	NOZZLE FLANGE	STS / CS
5	SCREEN	STS
6	GASKET	COMMERCIAL
7	PLUG	A105 / STS
8	BOLT	B7
9	NUT	2H
10	HANDLE WHEEL	GCD40
11	ELEMENT SEAT	CS / STS

NOTE 1. Packing & gasket material : customer's requirements



● 수평배관에 설치하는 BUCKET STRAINER ELEMENT 면적이 넓어 투과에 유리함. COVER의 탈부착이 유리함.

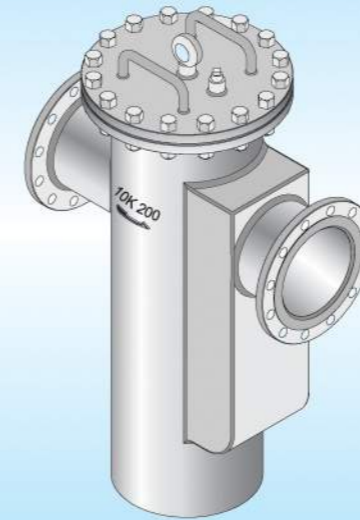
● CARBON STEEL, STAINLESS STEEL 등
● KS, JIS, ANSI 등의 규격에 준하여 제작.

■ DIMENSION

DIMENSION	SIZE	8B	10B	12B	14B	16B	18B	20B	24B
		200A	250A	300A	350A	400A	450A	500A	600A
D		216.3	267.4	318.5	355.6	406.4	457.2	508.0	609.6
L		650	800	850	950	1000	1100	1100	1400
H		840	1050	1250	1430	1650	1650	2000	2450
H1		560	700	850	980	1150	1100	1400	1750
Element	d1	220	280	320	380	420	480	520	620
	ℓ	480	600	740	870	1000	1000	1250	1550
Plug(PT)		3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"

U - TYPE BUCKET STRAINER

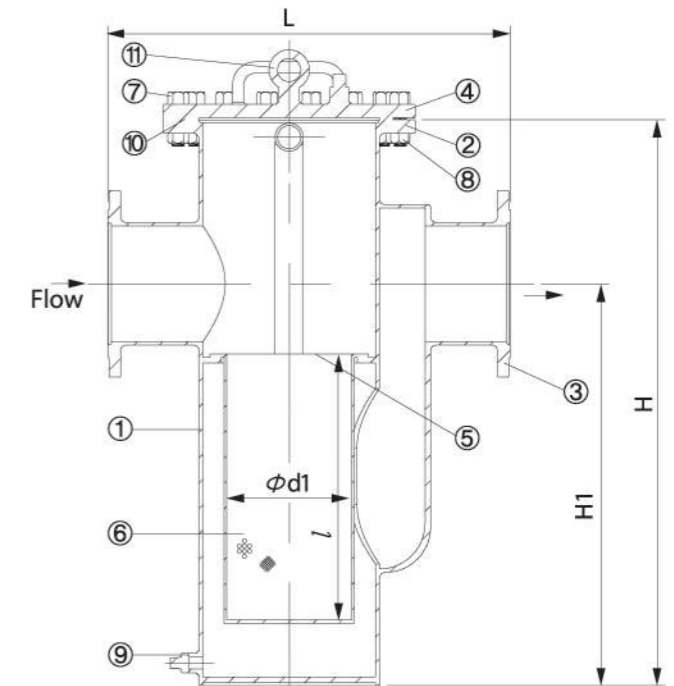
HBS-W2



PARTS OF MATERIAL

No	PARTS NAME	MATERIAL
1	BODY PIPE	STS / CS
2	SHELL FLANGE	STS / CS
3	NOZZLE FLANGE	STS / CS
4	COVER FLANGE	STS / CS
5	ELEMENT SEAT	STS / CS
6	SCREEN	STS
7	BOLTS	B7
8	NUTS	2H
9	DRAIN PLUG	A105 / STS
10	GASKET	COMMERCIAL
11	EYE BOLT	B7

NOTE 1. Packing & gasket material : customer's requirements



● 수평배관에 설치하는 BUCKET 형 STRAINER 중 ELEMENT SEALING 및 차압(ΔP)면에서 유리한 반면 출구쪽 SIDE SHELL을 이용하므로 고온 고압에 불리하다.

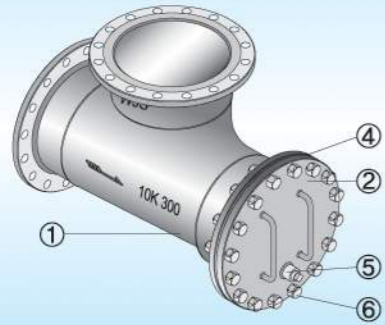
● CARBON STEEL, STAINLESS STEEL 등
● KS, JIS, ANSI 등의 규격에 준하여 제작.

■ DIMENSION

DIMENSION	SIZE	2B	2½B	3B	4B	5B	6B	8B	10B	12B	14B	16B	18B	20B	24B
		50A	65A	80A	100A	125A	150A	200A	250A	300A	350A	400A	450A	500A	600A
L		370	410	450	520	560	620	710	860	950	1000	1100	1200	1360	1550
H		375	440	530	590	695	760	1000	1140	1410	1550	1720	1940	2130	2460
H1		235	280	360	400	485	540	740	840	1060	1170	1320	1510	1670	1950
Element	d1	85	110	110	150	150	200	240	320	340	400	440	480	560	640
	ℓ	130	160	220	240	300	330	470	530	720	800	920	1050	1120	1370
Plug(PT)		1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"

T - TYPE STRAINER

HTS-W1



PARTS OF MATERIAL

No	PARTS NAME	MATERIAL
1	BODY	STS / SC / WPB
2	COVER	STS / SC / WPB
3	SCREEN	STS
4	GASKET	P.T.F.E
5	PLUG	STS / SC
6	BOLT	B7

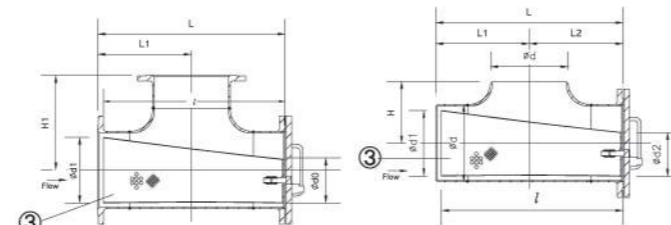
NOTE 1. Packing & gasket material : customer's requirements

- CARBON STEEL, STAINLESS STEEL 등
- KS, JIS, ANSI 등의 규격에 준하여 제작.
- 공장 및 석유화학 플랜트 분야에서 PUMP SUCTION에 많이 사용되고 있으며 설계시 유체의 흐름방향을 고려해야 할 필요가 있다.
- TEE-TYPE은 Y-TYPE에 비하여 유효면적 및 압력손실이 모두 유리하며 CONNECTION은 용접형으로 사용하는 것이 보통이며 현장상황에 따라 FLANGE로 체결하기도 한다.
- ANGLE TYPE의 경우 ELBOW등의 설치가 불필요하며 원가절감의 효과도 동시에 얻을 수 있다.

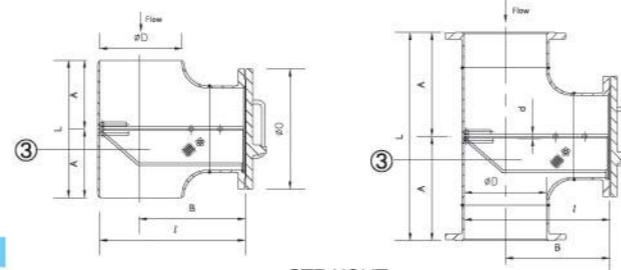
■ DIMENSION

ANGLE FLOW TYPE

SIZE	L	L1	H1	ELEMENT			PLUG (PT)
				d0	d1	ℓ	
25A(1B)	200	100	100	22	14	170	1/2"
40A(1½B)	252	126	126	32	21	212	1/2"
50A(2B)	268	134	134	40	28	229	1/2"
65A(2½B)	306	153	153	55	37	257	1/2"
80A(3B)	332	166	166	63	43	286	1/2"
100A(4B)	382	191	191	85	50	333	1/2"
125A(5B)	446	223	223	110	70	381	3/4"
150A(6B)	484	242	242	130	82	428	3/4"
200A(8B)	578	289	289	175	112	513	3/4"
250A(10B)	668	334	334	225	151	602	3/4"
300A(12B)	770	385	385	270	185	692	3/4"
350A(14B)	846	423	423	300	206	765	3/4"
400A(16B)	1460	730	730	340	225	1400	3/4"
450A(18B)	1500	750	750	390	260	1440	3/4"
500A(20B)	1650	825	825	440	290	1590	3/4"
600A(24B)	1980	990	990	530	350	1920	3/4"



ANGLE FLOW



STRAIGHT

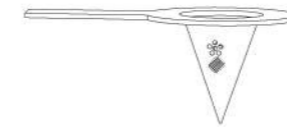
STRAIGHT TYPE

(UNIT:mm)

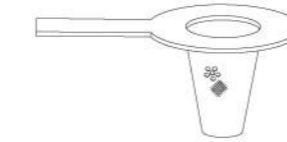
SIZE	L	A	B	D	ELEMENT	
					ℓ	H
50A(2B)	268	134	134	52.5	158	30
65A(2½B)	306	153	153	62.7	183	35
80A(3B)	332	166	166	77.9	203	40
100A(4B)	382	191	191	102.3	240	50
150A(6B)	484	242	242	154	315	75
200A(8B)	578	289	289	202.7	386	95
250A(10B)	668	334	334	238.2	456	115
300A(12B)	770	385	385	303.3	531	135
350A(14B)	846	423	423	333.4	587	150
400A(16B)	974	487	487	381	673	200
450A(18B)	1080	540	540	428.6	751	225
500A(20B)	1165	583	583	477.8	819	250

TEMPORARY STRAINER

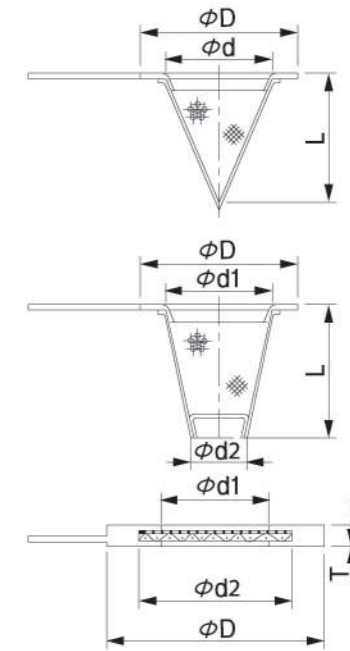
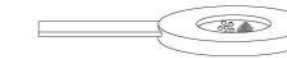
WJS C-1



WJS C-2



WJS C-3



- CARBON STEEL, STAINLESS STEEL 등
- KS, JIS, ANSI 등의 규격에 준하여 제작.
- 배관라인의 시운전시 사용되며 또 정기점검 후 분해하는 것이 보통이지만 최근 AIR COMPRESSOR SUCTION이나 LNG 등과 같이 통상적으로 이물질이 거의 발생치 않는 라인에 영구적으로도 사용된다.

■ DIMENSION

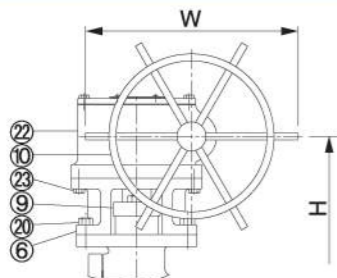
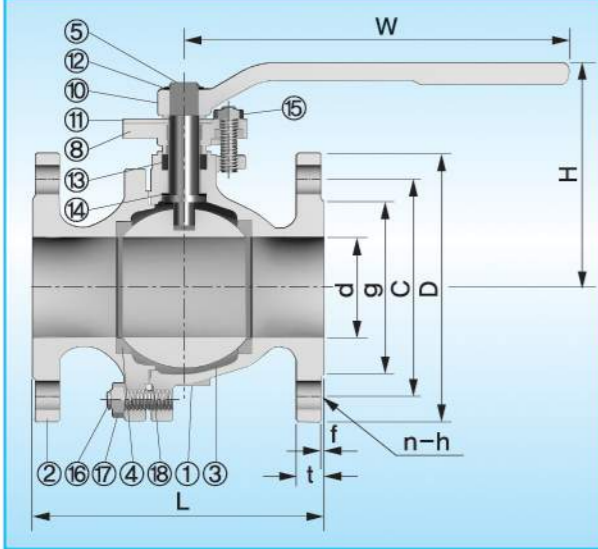
(mm)

SIZE	L	ØD			
		JIS 10kgf/cm ²	JIS 20kgf/cm ²	ANSI 150 psi	ANSI 300 psi
15A(½B)	25		55	45	51
20A(¾B)	30		60	55	63
25A(1B)	40		71	64	70
32A(1¼B)	45		81	74	79
40A(1½B)	50		86	83	92
50A(2B)	60		101	101	108
65A(2½B)	70		121	120	127
80A(3B)	80	131	137	133	146
100A(4B)	100	156	162	171	178
125A(5B)	120	187	200	194	213
150A(6B)	140	217	235	219	248
200A(8B)	190	267	280	276	305
250A(10B)	230	330	353	337	358
300A(12B)	270	375	403	404	419
350A(14B)	310	420	447	445	482
400A(16B)	350	483	507	507	536
450A(18B)	410	538	572	543	593
500A(20B)	460	593	627	600	651
600A(24B)		695	730	692	709

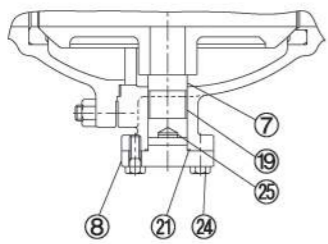
600A 이상도 주문제작 가능함.

2-WAY BALL VALVE (10K, 20K, 150LB, 300LB)

HBA-1



GEAR OPERATION
250 & OVER

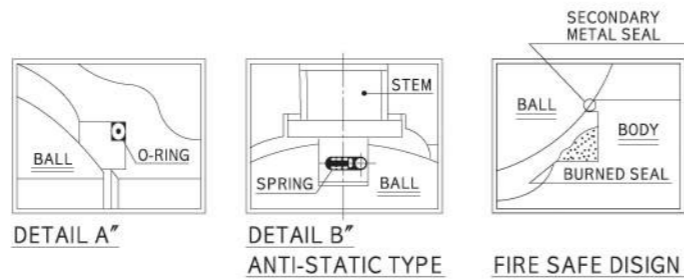


TRUNNION TYPE
250A & OVER

PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS			REMARKS
		CORROSION SERVICE			
1	BODY	SCS 13	SCS 14	SCS 16	
2	CAP	SCS 13	SCS 14	SCS 16	
3	BALL	SCS 13	SCS 14	SCS 16	
4	SEATRING	PTFE	PTFE	PTFE	
5	STEM	STS 304	STS 316	STS 316L	
6	YOKE	STS 304	STS 304	STS 304	
7	LOWER STEM	STS 304	STS 316	STS 316L	
8	BOTTOM CAP	SCS 13	SCS 14	SCS 16	
9	GLAND FLANGE	SCS 13	SCS 14	SCS 16	
10	HAND LEVER	GCD 450	GCD 450	GCD 450	
11	STOPPER	STS 304	STS 304	STS 304	
12	SNAP RING	SK 5	SK 5	SK 5	
13	PACKING	TEFLON	TEFLON	TEFLON	
14	BACK SEAT	TEFLON	TEFLON	TEFLON	
15	GLAND BOLT	STS 304	STS 304	STS 304	
16	COVER BOLT	STS 304	STS 304	STS 304	
17	COVER NUT	STS 304	STS 304	STS 304	
18	GASKET	TEFLON	TEFLON	TEFLON	
19	STEM BUSH	TEFLON	TEFLON	TEFLON	
20	YOKE BOLT	STS 304	STS 304	STS 304	
21	BOTTOM GASKET	TEFLON	TEFLON	TEFLON	
22	GEAR BOX	FC 200	FC 200	FC 200	
23	MOUNTING BOLT	TEFLON	TEFLON	TEFLON	
24	BOTTOM CAP BOLT	STS 304	STS 304	STS 304	
25	LOWER PAD	TEFLON	TEFLON	TEFLON	

NOTE 1. Packing & gasket material : customer's requirements



DETAIL A*

DETAIL B*
ANTI-STATIC TYPE

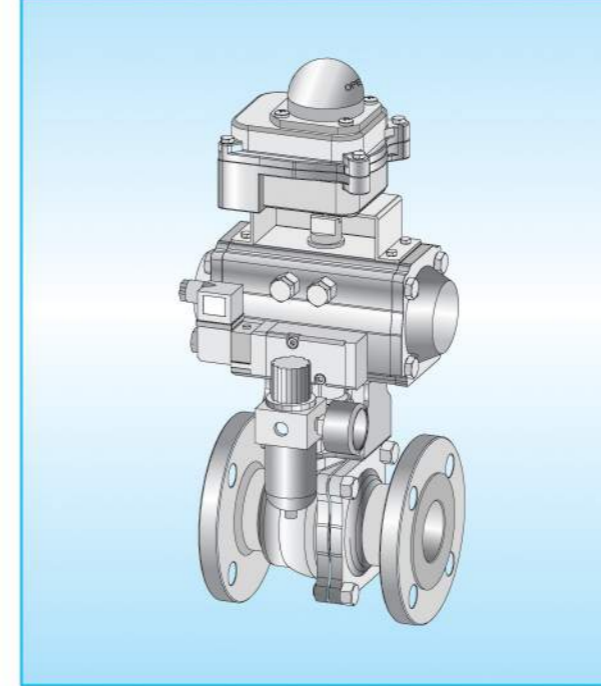
FIRE SAFE DESIGN

■ DIMENSION

CLASS	SIZE	DIMENSION (mm)																		
		IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16		
10K 150LB	L : FACE TO FACE (RF)	108	117	127	140	165	178	190	203	229	356	394	457	533	610	686	762			
	H : VALVE HEIGHT	67	72	80	95	105	118	133	153	183	220	265	310	580	630	650	720			
	W : HAND WHEEL DIA.	160	160	200	200	240	240	240	400	400	550	550	550	GEAR OPERATOR						
20K 300LB	L : FACE TO FACE (RF)	140	152	165	178	190	216	241	283	305	381	403	502	568	648	762	838			
	H : VALVE HEIGHT	70	80	80	100	115	135	150	165	205	240	280	350	590	655	680	750			
	W : HAND WHEEL DIA.	160	160	200	200	240	240	240	400	400	550	550	550	GEAR OPERATOR						

PNEUMATIC BALL VALVE

HBA-AU

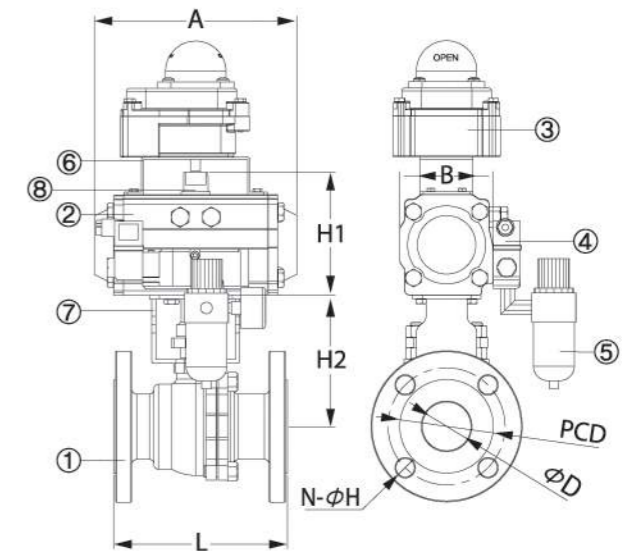


- 고객의 주문에 따라 하기 사양 외 SIZE 및 재질로도 제작 가능. 또한 CONTROL 사양도 고객의 요청에 따라 변경 후 조립 가능.
- MOV 사양도 제작가능함.

PARTS OF MATERIAL

No	PARTS NAME	MATERIAL
1	VALVE	SCS 13 / SCS 14 / SCS 16
2	ACTUATOR	.
3	LIMIT SWITCH	.
4	SOL. V/V	.
5	AIR UNIT	.
6	BRACKET 1	.
7	BRACKET 2	.
8	COUPLE RING	.

NOTE 1. Packing & gasket material : customer's requirements

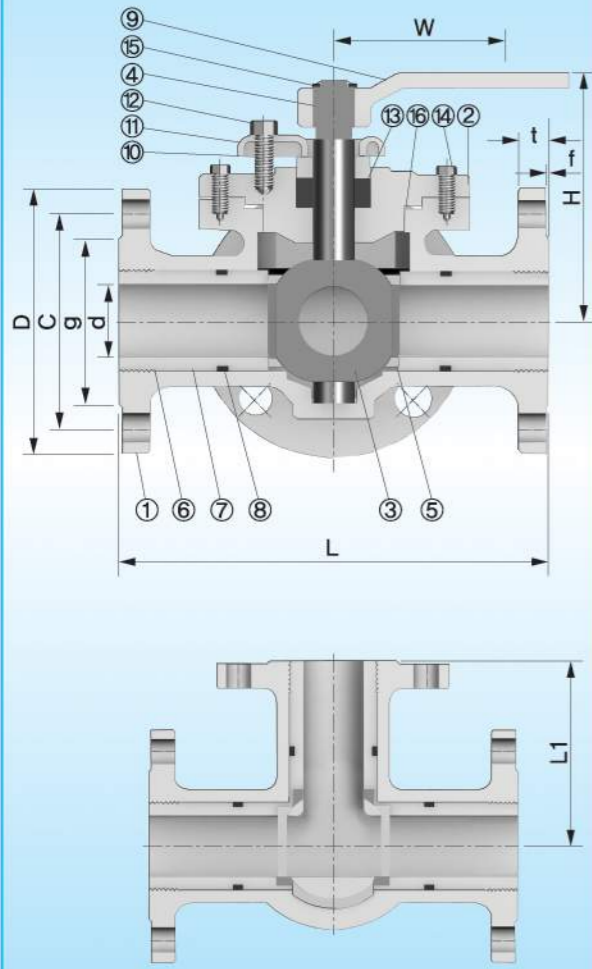


■ DIMENSION

SIZE	A	B	H1	H2	ØD	PCD	N-ØH	L	ACTUATOR
15A	140	72	92	118	15	70	4-15	108	HP-050
20A	140	72	92	126	20	75	4-15	117	HP-050
25A	162	84	105	138	25	90	4-19	127	HP-063
32A	162	84	105	143	40	100	4-19	140	HP-063
40A	208	96	123	149	40	105	4-19	165	HP-075
50A	208	96	123	152	50	120	4-19	178	HP-075
65A	243	108	136	177	65	140	4-19	190	HP-088
80A	268	123	148	188	80	150	8-19	203	HP-100
100A	268	123	148	217	100	175	8-19	229	HP-100
125A	349	151	189	269	125	210	8-23	356	HP-125
150A	450	202	226	287	150	240	8-23	394	HP-160

3-WAY BALL VALVE 10K, 150LB

H3WT

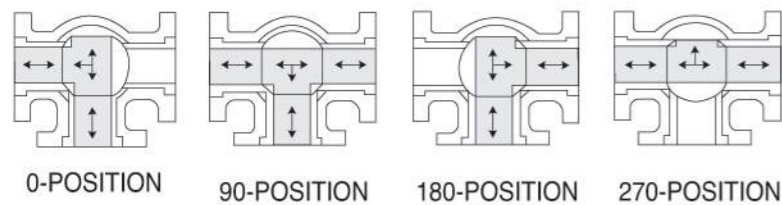


PARTS OF MATERIAL

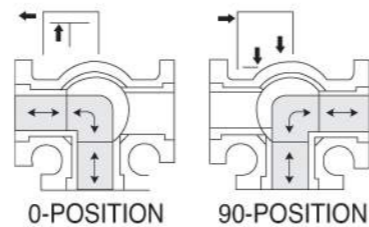
No	PARTS NAME	KS SPECIFICATIONS			REMARKS
		CORROSION SERVICE			
1	BODY	SCS 13	SCS 14	SCS 16	
2	CAP	SCS 13	SCS 14	SCS 16	
3	BALL	SCS 13	SCS 14	SCS 16	
4	STEM	STS 304	STS 316	STS 316L	
5	SEAT RING	P.T.F.E.	P.T.F.E.	P.T.F.E.	
6	RETAINER	SCS 13	SCS 14	SCS 16	
7	SEAT RING CASE	SCS 13	SCS 14	SCS 16	
8	O RING	VITON	VITON	VITON	
9	HAND LEVER	GCD 40	GCD 40	GCD 40	
10	PACKING GLAND	STS 304	STS 304	STS 304	
11	GLAND FLANGE	STS 304	STS 304	STS 304	
12	GLAND BOLT	STS 304	STS 304	STS 304	
13	PACKING	P.T.F.E.	P.T.F.E.	P.T.F.E.	
14	CAP BOLT	STS 304	STS 304	STS 304	
15	SNAP RING	SK 5	SK 5	SK 5	
16	GASKET	P.T.F.E.	P.T.F.E.	P.T.F.E.	

NOTE 1. Packing & gasket material : customer's requirements

T-PORT



L-PORT

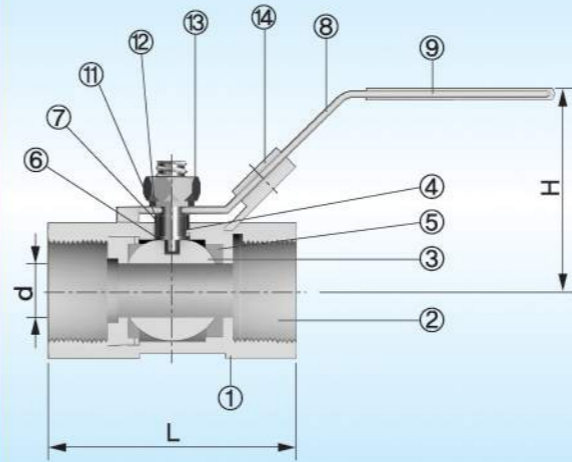


■ DIMENSION

CLASS	SIZE	DIMENSION (mm)																
		IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	
10K 150LB	L : FACE TO FACE (RF)	MM	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	
	H : VALVE HEIGHT			145		130	160	176	193	196	245	260	440	610	720	890		
	W : HAND WHEEL DIA.			200		240	240	400	400	350	550	550	550	550	GEAR TYPE			

BALL VALVE SCREW TYPE

HBAS



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS		REMARKS
		CORROSION SERVICE		
1	BODY	SCS 13	SCS 14	
2	INSCREWED SEAT RETAINER	SCS 13	SCS 14	
3	BALL	SCS 13	SCS 14	
4	STEM	STS 304	STS 316	
5	BALL SEAT	P.T.F.E.	P.T.F.E.	
6	CAP SEAL	P.T.F.E.	P.T.F.E.	
7	PACKING	P.T.F.E.	P.T.F.E.	
8	HANDLE	GCD 40	GCD 40	
9	HANDLE SLEEVE	VINIL	VINIL	
10	THRUST WASHER	STS 304	STS 316	
11	GLAND	STS 304	STS 316	
12	WASHER	STS 304	STS 316	
13	HANDLE NUT	STS 304	STS 316	
14	LOCKING PLATE	STS 304	STS 316	

NOTE 1. Packing & gasket material : customer's requirements

STAINLESS STEEL BALL VALVE SCREWD ENDS

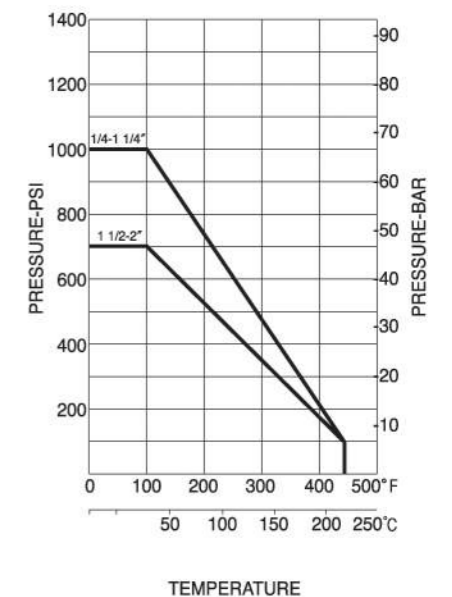
FEATURES

- Pipe thread in accordance with ANSI B2.1, BS 21 1973, DIN 259 / 2999
- Blow-out proof stem / Reduce bore
- Investment casting body
- 800 PSI (55 BAR) W.O.G. / 1000 PSI (69 BAR) W.O.G.
- Material : ASTM-CF8M A351, ASTM-CF8 A351

■ DIMENSION

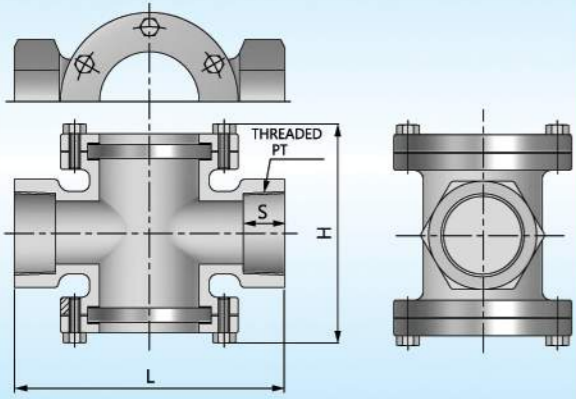
CLASS	SIZE	DIMENSION (mm)								
		IN	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
10K	L : FACE TO FACE	MM	8	10	15	20	25	32	40	50
	H : VALVE HEIGHT		33	35	42	45	52	57	60	66
	W : HAND WHEEL DIA.		60	67	90	90	112	112	132	132
	D :		5	7	10	13	16	20	25	32

PRESSURE-TEMPERATURE RATING R-1 TYPE 1/4-2"



SIGHT GLASS (SCR'D) 10K

HSGS



LIST OF MATERIAL

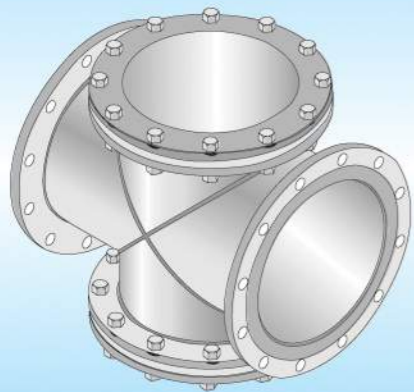
No	PARTS NAME	MATERIAL	Q'TY	REMARKS
1	BODY	SCS 13	1	
2	COVER	SCS 13	2	
3	GLASS	HARD GLASS	2	
4	COVER BOLT	STS 304	-	
5	GASKET	P.T.F.E	4	

■ DIMENSION

SIZE (A)	BORE d	L	SCR'D		H
			S	PT	
15A	15	110	12.7.5	1/2 - 14	80
20A	20	110	14.1	3/4 - 14	90
25A	25	135	16.2	1 - 11	105
32A	32	150	18.5	1.1 / 4 - 11	130
40A	40	180	18.5	1.1 / 2 - 11	140
50A	50	190	22.8	2 - 11	150

제관 TYPE SIGHT GLASS (CROSS TYPE) 10K, 150LB

HSGC-W



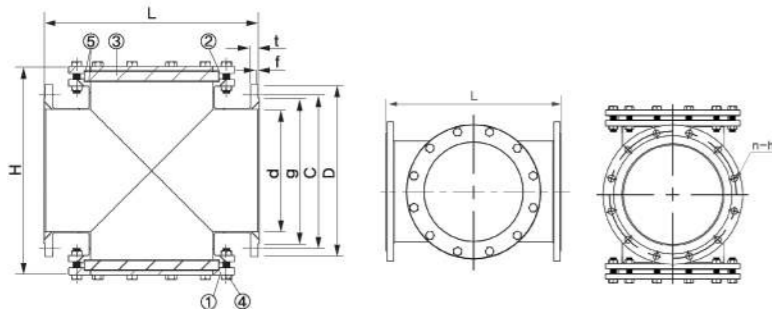
PARTS OF MATERIAL

No	PARTS NAME	MATERIAL	REMARKS
1	BODY	SUS 304	
2	COVER	SCS 13	
3	GLASS	HARD	
4	COVER BOLT	STS 304	
5	GASKETT	P.T.F.E	

NOTE 1. gasket material : customer's requirements
2. 18"(450A) 이상 주문제작

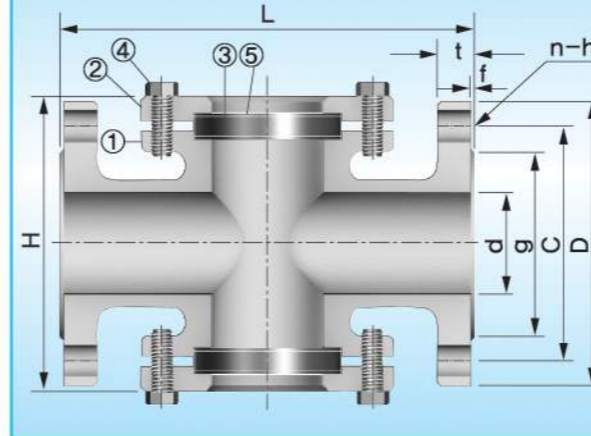
■ DIMENSION

CLASS	SIZE	DIMENSION (mm)											
		IN	12	14	16	18	20	22	24	28			
10K	L : FACE TO FACE (RF)	300	350	400	450	500	550	600	700				
150LB	H : VALVE HEIGHT	600	630	700									



SIGHT GLASS (CROSS TYPE) 10K, 150LB

HSGC



■ DIMENSION

CLASS	SIZE	DIMENSION (mm)													
		IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10
10K	L : FACE TO FACE (RF)	150	150	170	200	200	220	255	255	287	340	380	460	540	
150LB	H : VALVE HEIGHT	105	105	147	155	155	168	185	212	245	263	280	359	410	

PARTS OF MATERIAL

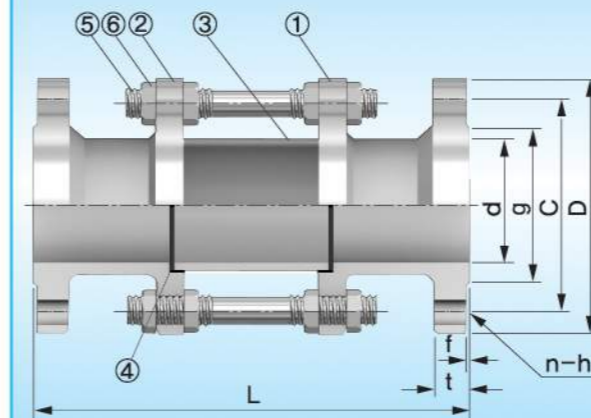
No	PARTS NAME	KS SPECIFICATIONS			REMARKS
		CORROSION	SERVICE		
1	BODY	SCS 13	SCS 14	SCS 16	
2	COVER	SCS 13	SCS 14	SCS 16	
3	GLASS	HARD	HARD	HARD	PYREX
4	COVER BOLT	STS 304	STS 304	STS 304	
5	GASKET	P.T.F.E	P.T.F.E	P.T.F.E	GRAPHITE

NOTE 1. gasket material : customer's requirements

※ FLAPPER TYPE, BALL TYPE 주문생산

SIGHT GLASS (LANTERN TYPE) 10K, 150LB

HSGL



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS			REMARKS
		CORROSION	SERVICE		
1	BODY	SCS 13	SCS 14	SCS 16	
2	COVER	SCS 13	SCS 14	SCS 16	
3	GLASS	HARD GLASS	HARD GLASS	HARD GLASS	PYREX
4	GASKET	P.T.F.E	P.T.F.E	P.T.F.E	GRAPHITE
5	COVER BOLT	STS 304	STS 304	STS 304	
6	COVER NUT	STS 304	STS 304	STS 304	

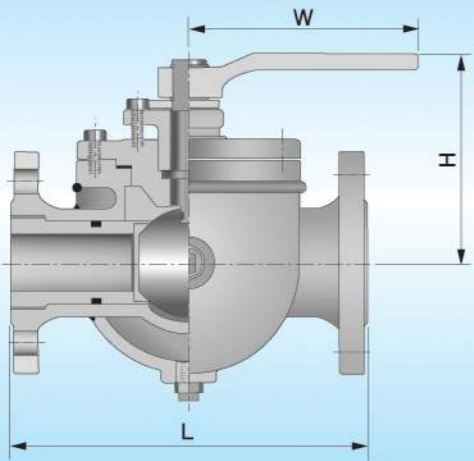
NOTE 1. gasket material : customer's requirements

■ DIMENSION

CLASS	SIZE	DIMENSION (mm)													
		IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10
10K 50LB	L : FACE TO FACE (RF)	220	220	220	220	220	240	240	240	260	280	280	280	300	

SEMI-JACKET BALL VALVE 10K, 20K, 150LB, 300LB

HJB-M1



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS			REMARKS
		CORROSION SERVICE			
1	BODY	SCS 13	SCS 14	SCS 16	
2	SEAT GUIDE	SCS 13	SCS 14	SCS 16	
3	BALL	SCS 13	SCS 14	SCS 16	
4	SEATRING	TEFLON	TEFLON	TEFLON	
5	RETAINER	SCS 13	SCS 14	SCS 16	
6	O-RING	N.B.R	N.B.R	N.B.R	
7	STEM	STS 304	STS 316	STS 316L	
8	PACKING GLAND	STS 304	STS 304	STS 304	
9	GLAND FLANGE	SCS 13	SCS 13	SCS 13	
10	HAND LEVER	GCD 450	GCD 450	GCD 450	
11	STOPPER	STS 304	STS 304	STS 304	
12	SNAP RING	SK 5	SK 5	SK 5	
13	PACKING	TEFLON	TEFLON	TEFLON	
14	BACK SEAT	TEFLON	TEFLON	TEFLON	
15	JACKET	SCS 13	SCS 13	SCS 13	
16	DRAIN PLUG	STS 304	STS 304	STS 304	
17	GLAND BOLT	STS 304	STS 304	STS 304	

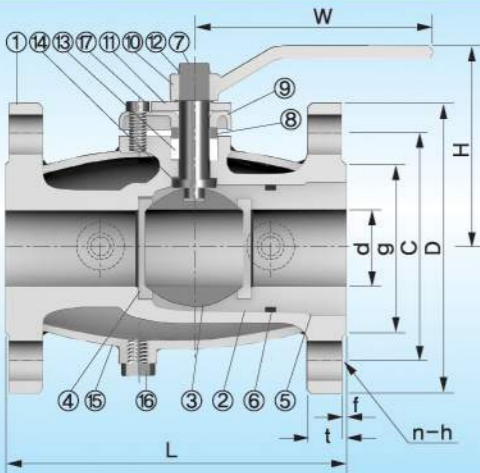
NOTE 1. Packing & gasket material : customer's requirements
2. METAL SEAT 주문제작 3. PEEK SEAT 주문제작
4. 20K(300LB)는 주문제작

■ DIMENSION

CLASS	SIZE	DIMENSION (mm)															
		IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
10K 150LB	L : FACE TO FACE (RF)	-	155	180	190	240	240	260	290	360	400	430	580	-	-	-	-
	H : VALVE HEIGHT	-	100	110	115	160	160	175	190	230	270	305	340	-	-	-	-
	W : HAND WHEEL DIA.	-	145	185	185	235	235	350	350	350	350	350	350	-	-	-	-

JACKET BALL VALVE 10K, 20K, 150LB, 300LB

HJB-1



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS			REMARKS
		CORROSION SERVICE			
1	BODY	SCS 13	SCS 14	SCS 16	
2	SEAT GUIDE	SCS 13	SCS 14	SCS 16	
3	BALL	SCS 13	SCS 14	SCS 16	
4	SEATRING	TEFLON	TEFLON	TEFLON	
5	RETAINER	SCS 13	SCS 14	SCS 16	
6	O-RING	N.B.R	N.B.R	N.B.R	
7	STEM	STS 304	STS 316	STS 316L	
8	PACKING GLAND	STS 304	STS 304	STS 304	
9	GLAND FLANGE	SCS 13	SCS 13	SCS 13	
10	HAND LEVER	GCD 450	GCD 450	GCD 450	
11	STOPPER	STS 304	STS 304	STS 304	
12	SNAP RING	SK 5	SK 5	SK 5	
13	PACKING	TEFLON	TEFLON	TEFLON	
14	BACK SEAT	TEFLON	TEFLON	TEFLON	
15	JACKET	SCS 13	SCS 13	SCS 13	
16	DRAIN PLUG	STS 304	STS 304	STS 304	
17	GLAND BOLT	STS 304	STS 304	STS 304	

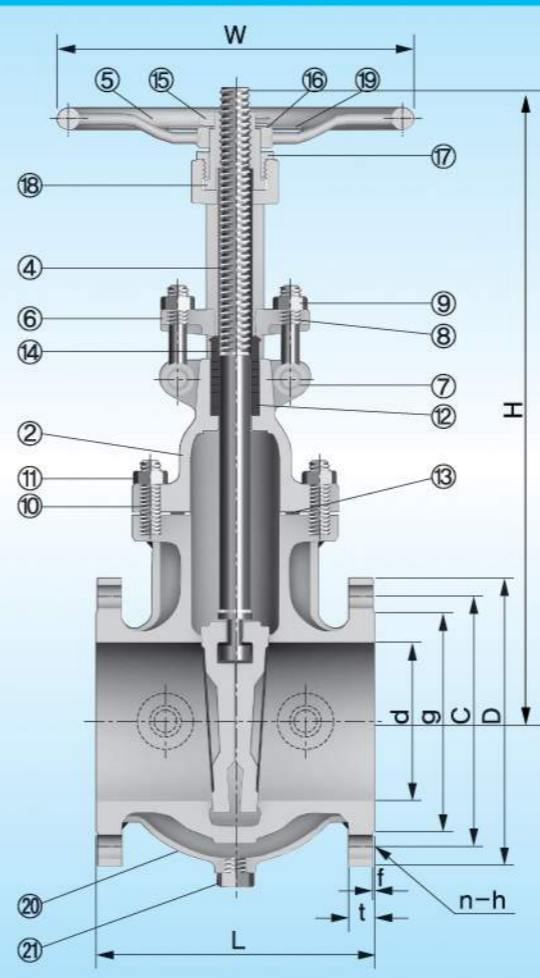
NOTE 1. Packing & gasket material : customer's requirements

■ DIMENSION

CLASS	SIZE	DIMENSION (mm)													
		IN	1/2x1 1/2	3/4x1 1/2	1x2	1 1/4x2 1/2	1 1/2x2 1/2	2x3	2 1/2x4	3x5	4x6	5x8	6x10	8x12	10x14
10K 150LB	L : FACE TO FACE (RF)	120	120	127	165	165	178	190	203	229	267	395	533	610	
	H : VALVE HEIGHT	115	115	132	151	183	190	197	205	215	275	275	310	325	
	W : HAND WHEEL DIA.	185	185	185	245	245	245	370	370	450	600	600	800	GEAR	

JACKET GATE VALVE 10K, 20K, 150LB, 300LB

HJGA-1



PARTS OF MATERIAL

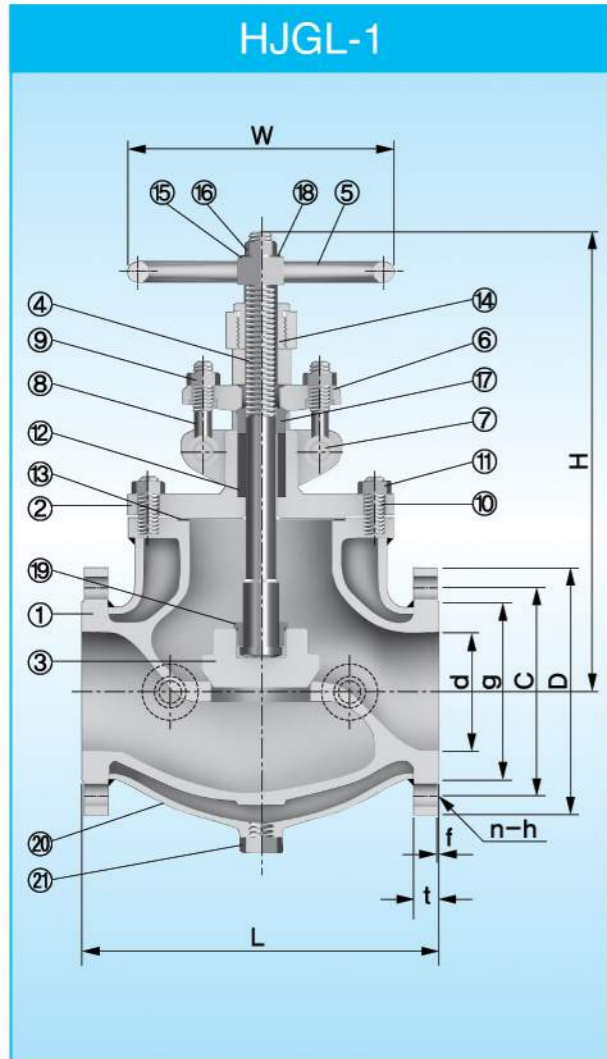
No	PARTS NAME	KS SPECIFICATIONS			REMARKS
		CORROSION SERVICE			
1	BODY	SCS 13	SCS 14	SCS 16	
2	BONNET	SCS 13	SCS 14	SCS 16	
3	DISC	SCS 13	SCS 14	SCS 16	
4	STEM	STS 304	STS 316	STS 316L	
5	HAND WHEEL	GCD 40	GCD 40	GCD 40	
6	GLAND FLANGE	SCS 13	SCS 13	SCS 13	
7	HINGE PIN	STS 304	STS 304	STS 304	
8	HINGE BOLT	STS 304	STS 304	STS 304	
9	HINGE NUT	STS 304	STS 304	STS 304	
10	BONNET BOLT	STS 304	STS 304	STS 304	
11	BONNET NUT	STS 304	STS 304	STS 304	
12	PACKING	GRAPHITE / PTFE			
13	GASKET	GRAPHITE / PTFE			
14	GLAND RING	STS 304	STS 304	STS 304	
15	WHEEL NUT	SS 400	SS 400	SS 400	
16	SET SCREW	SS 400	SS 400	SS 400	
17	SLEEVE NUT	STS 304	STS 304	STS 304	
18	YOKE SLEEVE	BC 6 / GCD 40	BC 6 / GCD 40	BC 6 / GCD 40	
19	NAME PLATE	ALP	ALP	ALP	
20	JACKET	SSS 13	SSS 13	SSS 13	
21	DRAIN PLUG	STS 304	STS 304	STS 304	

NOTE 1. Packing & gasket material : customer's requirements

■ DIMENSION

CLASS	SIZE	DIMENSION (mm)													
		IN	1/2x1 1/2	3/4x1 1/2	1x2	1 1/4x2 1/2	1 1/2x2 1/2	2x3	2 1/2x4	3x5	4x6	5x8	6x8	8x10	10x12
10K 150LB	L : FACE TO FACE (RF)	165	165	178	190	190	203	229	254	267	292	292	330	356	381
	H : VALVE OPEN HEIGHT	195	195	230	255	270	320	370	430	525	635	730	890	1125	1327
	W : HAND WHEEL DIA.	100	100	125	125	180	180	200	200	240	280	280	320	400	400
20K 300LB	L : FACE TO FACE (RF)	190	190	216	241	241	283	305	381	403	419	419	457	502	762
	H : VALVE OPEN HEIGHT	195	195	230	255	290	357	412	475	550	626	753	968	1170	1340
	W : HAND WHEEL DIA.	100	100	125	125	180	200	200	200	280	320	320	400	400	400

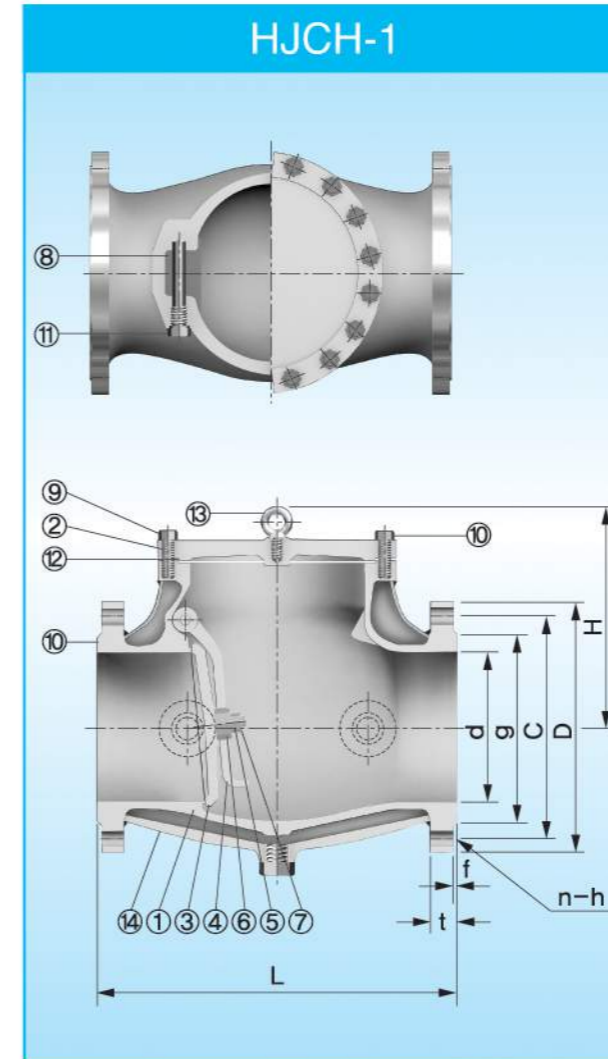
JACKET GLOBE VALVE 10K, 20K, 150LB, 300LB



PARTS OF MATERIAL					
No	PARTS NAME	KS SPECIFICATIONS			REMARKS
		CORROSION SERVICE			
1	BODY	SCS 13	SCS 14	SCS 16	
2	BONNET	SCS 13	SCS 14	SCS 16	
3	DISC	STS 304	STS 316	STS 316L	
4	STEM	STS 304	STS 316	STS 316L	
5	HAND WHEEL	GCD 40	GCD 40	GCD 40	
6	GLAND FLANGE	SCS 13	SCS 13	SCS 13	
7	HINGE PIN	STS 304	STS 304	STS 304	
8	HINGE BOLT	STS 304	STS 304	STS 304	
9	HINGE NUT	STS 304	STS 304	STS 304	
10	BONNET BOLT	STS 304	STS 304	STS 304	
11	BONNET NUT	STS 304	STS 304	STS 304	
12	PACKING	GRAPHITE / PTFE			
13	GASKET	GRAPHITE / PTFE			
14	YOKE BUSH	GCD 45	GCD 45	GCD 45	
15	NAME PLATE	ALP	ALP	ALP	
16	WHEEL NUT	SS 400	SS 400	SS 400	
17	GLAND RING	STS 304	STS 304	STS 304	
18	PLATE WASHER	SS 400	SS 400	SS 400	
19	DISC NUT	STS 304	STS 304	STS 304	
20	JACKET	SCS 13	SCS 13	SCS 13	
21	DRAIN PLUG	STS 304	STS 304	STS 304	

NOTE 1. Packing & gasket material : customer's requirements

JACKET SWING CHECK VALVE 10K, 20K, 150LB, 300LB



PARTS OF MATERIAL					
No	PARTS NAME	KS SPECIFICATIONS			REMARKS
		CORROSION SERVICE			
1	BODY	SCS 13	SCS 14	SCS 16	
2	COVER	SCS 13	SCS 14	SCS 16	
3	DISC	SCS 13	SCS 14	SCS 16	
4	ARM	SCS 13	SCS 14	SCS 16	
5	SPLIT PIN	STS 304	STS 316	STS 316L	
6	PLATE WASHER	STS 304	STS 316	STS 316L	
7	DISC NUT	STS 304	STS 316	STS 316L	
8	ROD PIN	STS 304	STS 316	STS 316L	
9	COVER BOLT	STS 304	STS 304	STS 304	
10	COVER NUT	STS 304	STS 304	STS 304	
11	PLUG	STS 304	STS 316	STS 316L	
12	GASKET	GRAPHITE / PTFE			
13	EYE BOLT	SS 400	SS 400	SS 400	
14	JACKET	SCS 13	SCS 13	SCS 13	
15	DRAIN PLUG	STS 304	STS 304	STS 304	

NOTE 1. gasket material : customer's requirements

■ DIMENSION

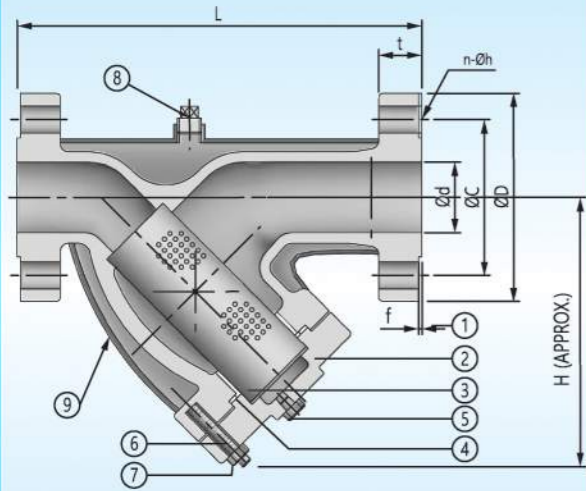
CLASS	SIZE	DIMENSION														(mm)	
		IN	1/2x1 1/2	3/4x1 1/2	1x2	1 1/4x2 1/2	1 1/2x2 1/2	2x3	2 1/2x4	3x5	4x6	5x8	6x8	8x10	10x12		12x14
		MM	15x40	20x40	25x50	32x65	40x65	50x80	65x100	80x125	100x150	125x200	150x200	200x250	250x300	300x350	
10K 150LB	L : FACE TO FACE (RF)		165	165	203	216	216	241	292	356	406	495	495	622	698	787	
	H : VALVE OPEN HEIGHT		190	198	230	240	250	280	330	360	380	460	480	560	650	736	
	W : HAND WHEEL DIA.		100	100	125	140	140	180	200	200	240	280	280	400	550	550	
20K 300LB	L : FACE TO FACE (RF)		229	229	267	292	292	318	356	400	444	559	559	622	711	838	
	H : VALVE OPEN HEIGHT		150	157	181	232	275	300	340	380	430	500	590	696	719	735	
	W : HAND WHEEL DIA.		100	100	125	140	140	200	200	250	315	315	355	500	550	600	

■ DIMENSION

CLASS	SIZE	DIMENSION														(mm)	
		IN	1/2x1 1/2	3/4x1 1/2	1x2	1 1/4x2 1/2	1 1/2x2 1/2	2x3	2 1/2x4	3x5	4x6	5x8	6x8	8x10	10x12		12x14
		MM	15x40	20x40	25x50	32x65	40x65	50x80	65x100	80x125	100x150	125x200	150x200	200x250	250x300	300x350	
10K	L : FACE TO FACE (RF)		165	165	203	216	216	241	292	330	356	495	495	622	698	787	
150LB	H : VALVE HEIGHT		60	65	72	85	94	105	111	120	160	172	203	225	320	340	
20K	L : FACE TO FACE (RF)		241	241	267	292	292	318	356	400	444	533	533	622	711	838	
300LB	H : VALVE HEIGHT		60	65	70	80	117	126	136	156	167	200	225	260	345	390	

JACKET Y-STRAINER 10K, 20K, 150LB, 300LB

HJST-1



LIST OF MATERIAL

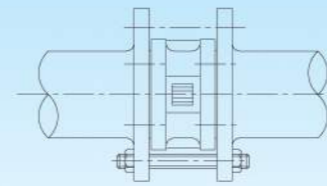
No	PARTS NAME	MATERIAL	Q'TY	REMARKS
1	BODY	SCS 13	1	
2	COVER	SCS 13	1	
3	SCREEN	STS 304	1	
4	GASKET	GRAPHITE	1	MESH 40
5	PLUG	STS 304	1	
6	COVER BOLT	STS 304	-	
7	COVER NUT	STS 304	-	
8	DRAIN PLUG	STS 304	3	1/2"
9	JACKET	STS 304	1	

■ DIMENSION

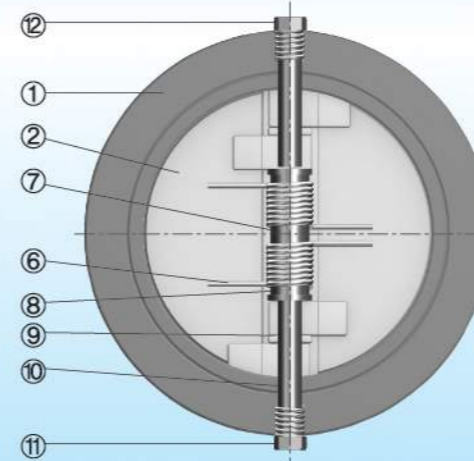
CLASS	SIZE	DIMENSION (mm)													
		IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	
		MM	15A x 40A	20A x 40A	25A x 50A	32A x 65A	40A x 65A	50A x 80A	65A x 100A	80A x 125A	100A x 150A	125A x 200A	150A x 200A	200A x 250A	
10K	L : FACE TO FACE (RF)	140	140	160	200	200	240	270	290	340	395	440	540		
	H : VALVE HEIGHT	65	75	85	125	125	160	192	200	240	285	325	410		

DUO CHECK VALVE (WAFER) 10K, 150LB

HDU

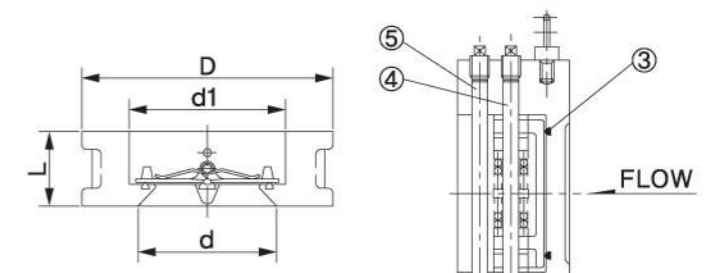


INSTALLATION



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS			REMARKS
		CORROSION SERVICE			
1	BODY	FC	SCS 13	SCS 14	
2	DISC	SCS 13	SCS 13	SCS 14	
3	SEAT	NBR	NBR	NBR	EPDM
4	HINGE PIN	STS 304	STS 304	STS 304	
5	STOP PIN	STS 304	STS 304	STS 304	
6	SPRING	STS 304	STS 304	STS 304	
7	CENTER BEARING	TEFLON	TEFLON	TEFLON	
8	S-LUG BEARING	TEFLON	TEFLON	TEFLON	
9	P-LUG BEARING	TEFLON	TEFLON	TEFLON	
10	B-LUG BEARING	TEFLON	TEFLON	TEFLON	
11	PIN RETAINER	SM25C	SM25C	SM25C	
12	EYE BOLT	SM20C	SM20C	SM20C	



SECTION A-A

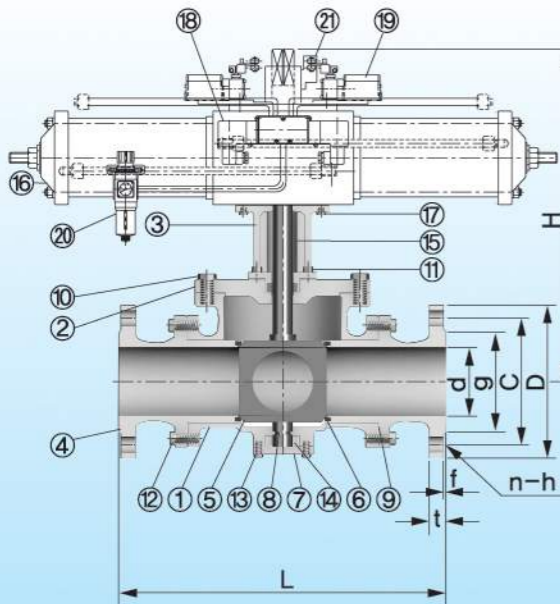
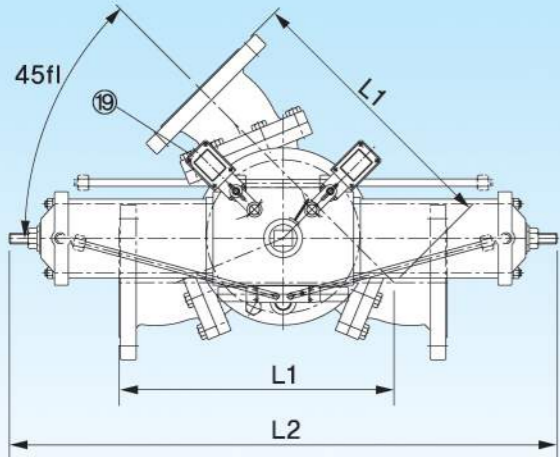
SECTION B-B

■ DIMENSION

VALVE SIZE		JIS 10K			ANSI B16.5 CLASS 150LB			BS4504 PN10			BS4504 PN16		
MM	INCH	d	D	L	d	D	L	d	D	L	d	D	L
50	2	60	101	60	60	92	60	60	102	60	60	107	60
65	2 1/2	72	121	67	72	105	67	72	122	67	72	127	67
80	3	92	131	73	92	127	73	92	138	73	92	142	73
100	4	112	156	73	112	158	73	112	162	73	112	160	73
125	5	141	187	83	141	186	83	141	188	83	141	192	83
150	6	168	217	98	168	216	98	168	212	98	168	213	98
200	8	220	267	127	220	270	127	220	268	127	220	270	127
250	10	274	330	146	274	324	146	274	320	146	274	334	146
300	12	324	375	181	324	384	181	324	370	181	324	380	181
350	14	356	420	184	356	440	184	356	429	184	356	429	184
400	16	406	483	191	406	502	191	406	480	191	406	480	191
450	18	457	538	203	457	538	203	457	530	203	457	548	203
500	20	508	593	219	508	595	219	508	582	219	508	605	219
600	24	610	697	222	610	706	222	610	682	222	610	720	222

Y-TYPE 3-WAY BALL VALVE 10K, 다이버터

H3WY



TEST PRESSURE

JIS 5kg f/cm ² 10kg f/cm ²	SHELL	SEAT
PNEUMATIC	4~7kg f/cm ² (30 second)	4~7kg f/cm ² (30 second)
HYDRO	15kg f/cm ² (30 second)	11kg f/cm ² (30 second)

PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS CORROSION SERVICE	REMARKS
1	BODY	SCS 13	
2	CAP	SCS 13	
3	YOKE	SCPH 2	
4	BODY FLANGE	SCS 13	
5	BALL	SCS 13	
6	SEATRING	TEFLON	
7	BOTTOM CAP	STS 304	
8	O-RING	N.B.R	
9	GASKET	TEFLON	
10	COVER BOLT	STS 304	
11	YOKE BOLT	STS 304	
12	FLANGE BOLT	STS 304	
13	BOTTOM BOLT	STS 304	
14	BEARING	SUJ 2	
15	COUPLING	SS 400	
16	CYLINDER	AL. ALLOY	
17	MOUNTING BOLT	SS 400	
18	SOLENOID VALVE	PUR.	
19	LIMIT SWITCH	PUR.	
20	AIR UNIT	PUR.	
21	SHAKE	SS 400	

NOTE 1. Packing & gasket material : customer's requirements

■ DIMENSION

CLASS	SIZE	DIMENSION (mm)															
		IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10		
10K	L : FACE TO FACE (RF)								320	400	475	530	590	670	780		
	H : VALVE HEIGHT								265	305	340	385	406	505	630		
	W :								600	600	600	750	750	800	800		

Y-TYPE 3-WAY BALL VALVE 10K

MAIN MATERIALS

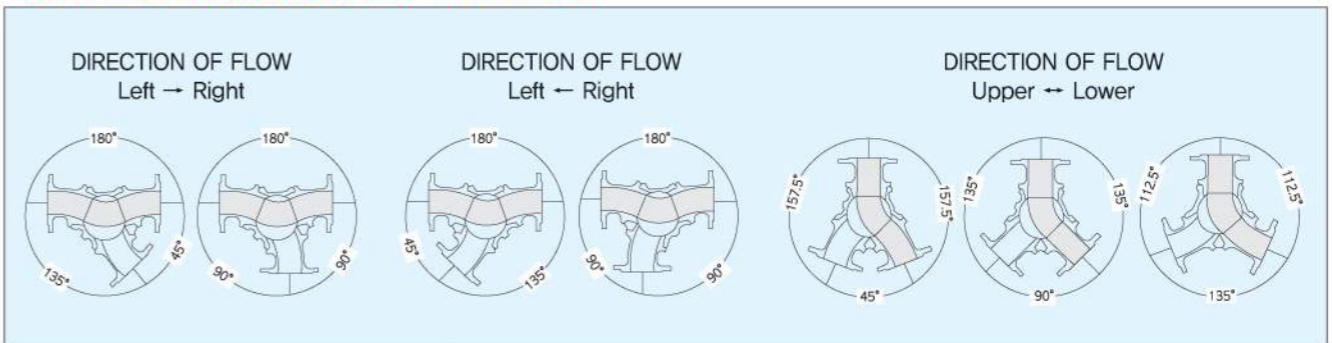
No	PARTS NAME	MATERIAL QUALITIES	STAINLESS STEEL	REMARKS
1	BODY, BODY CAP, SIDE COVER		SCS13	
2	BALL		SCS13	
3	STEM		SUS304	
4	BALL SEAT, STEM PACKING, BODY GASKET		TEFLON	
5	BONNET CAP, BOLT		SUS304	

The specification may be changed without notices for modification

STANDARD DESIGN

- a) Max. Design Pressure : 22kg f/cm²
- b) Max. Design Temp : 180 °C
- c) Fluid : Gas, Chip, Powder
Water, Oils, Chemicals, etc
- d) Pneumatic Operating Air Pressure : 4kg f/cm²
- e) Pneumatic Accessories,
·Solenoïd Valve ·Speed Controller
·Limit S/W ·Air Unit
·Air Cylinder
※(Water Proof AND Explosion Proof)
- f) Manual Hand Lever Operated
- g) Gear Operated
- h) Pneumatic Operated
- i) Motor Operated

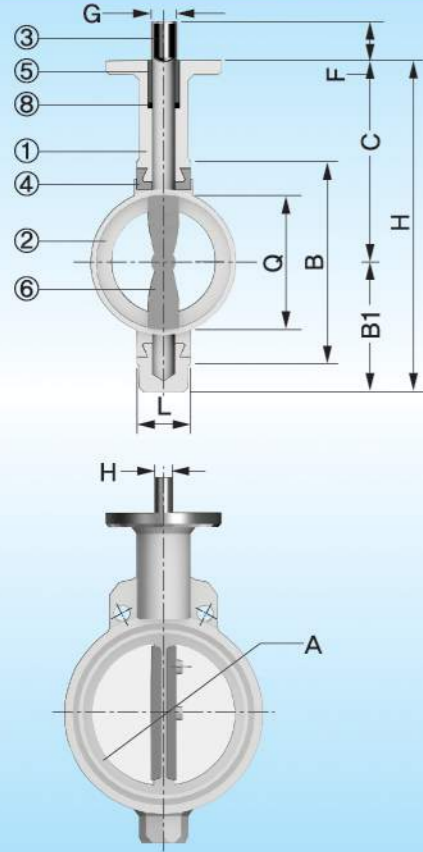
STANDARD SOCKET FITTING



STANDARD MANUFACTURING RANGE 1 1/2B 2B 2 1/2B 3B 4B 5B 6B 8B 10B

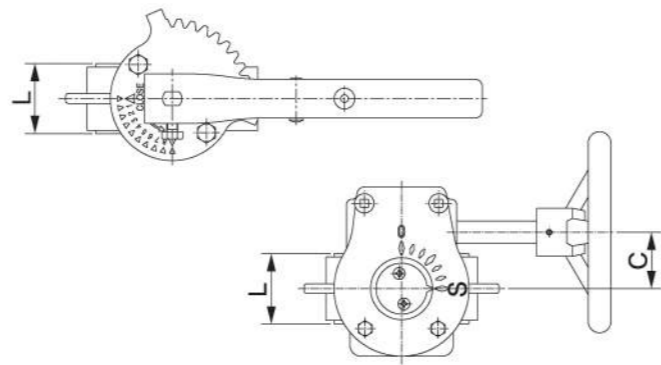
BUTTERFLY VALVE (WAFER) 10K, 150LB, PN16

HBT



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS CORROSION SERVICE		REMARKS
1	BODY	FC	SCS 13	
2	DISC	SCS 13	SCS 13	
3	STEM	SUS 304	SUS 304	
4	SEAT	EPDM / NBR	EPDM / NBR	
5	BUSHING	ACETAL	ACETAL	
6	SCREW	STS 304	STS 304	
7	O-RING	N.B.R	N.B.R	
8	PACKING	EPDM / NBR	EPDM / NBR	

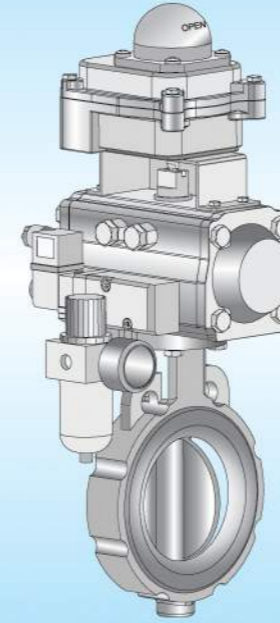


■ DIMENSION

VALVE SIZE		A	L	B ₁	C	H	Q	F	TOP FLANGE ISO 5211			
INCH	MM								D	C	n	h
2	50	52	43	68	130	198	94	12	90	70	4	9
2½	65	66	46	77	138	215	110	12	90	70	4	9
3	80	81	46	84	156	240	124	12	90	70	4	9
4	100	100	52	105	170	205	152	12	90	70	4	9
5	125	126	56	120	185	305	181	12	90	70	4	9
6	150	151	56	135	200	335	210	12	90	70	4	9
8	200	200	60	180	237	417	259	13	90	70	4	9
10	250	250	68	215	273	488	318	15	125	102	4	12
12	300	301	78	245	314	559	371	15	125	102	4	12
14	350	337	78	290	330	620	410	15	125	102	4	12
16	400	387	102	330	375	705	468	20	125	102	4	18
18	450	438	114	360	400	760	527	20	175	140	4	18
20	500	487	127	400	440	840	578	20	210	165	4	22
22	550	530	154	425	475	900	636	22	210	165	4	22
24	600	575	154	460	510	970	680	22	210	165	4	22

PNEUMATIC BUTTERFLY VALVE

HBT-AU

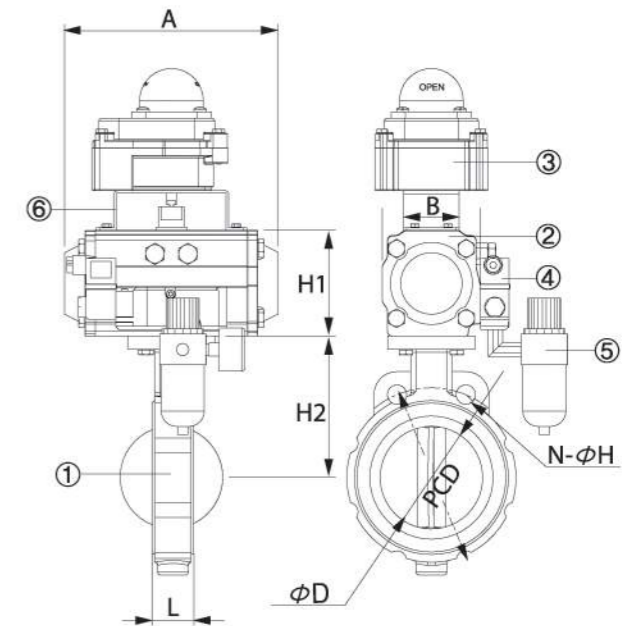


PARTS OF MATERIAL

No	PARTS NAME	MATERIAL
1	VALVE	SCS 13 / SCS 14 / SCS 16
2	ACTUATOR	.
3	LIMIT SWITCH	.
4	SOL. V/V	.
5	AIR UNIT	.
6	BRACKET	.

NOTE 1. Packing & gasket material : customer's requirements

- 고객의 주문에 따라 하기 사양 외 SIZE 및 재질로도 제작 가능. 또한 CONTROL 사양도 고객의 요청에 따라 변경 후 조립 가능.
- MOV 사양도 제작가능함.

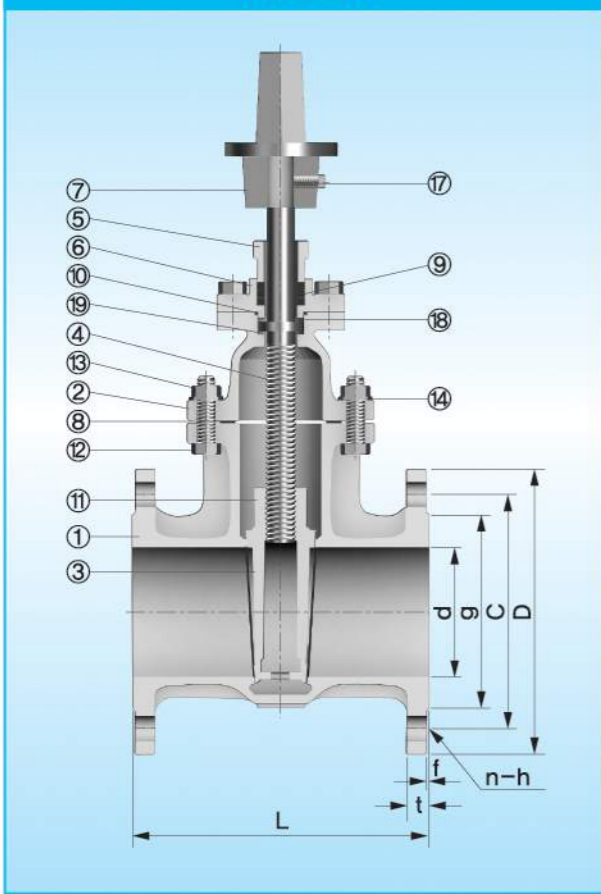


■ DIMENSION

SIZE	A	B	H ₁	H ₂	ØD	PCD	N-ØH	L	ACTUATOR
40A	140	72	92	114.5	45	105	4-19	33	HP-050
50A	162	84	105	130	55	120	4-19	40	HP-063
65A	162	84	105	140	65	140	4-19	43	HP-063
80A	208	96	123	150	80	150	8-19	43	HP-075
100A	208	96	123	165	100	175	8-19	50	HP-088
125A	243	108	136	185	125	210	8-23	53	HP-088
150A	268	123	148	200	150	240	8-23	53	HP-100
200A	349	151	189	230	200	290	12-23	63	HP-125
250A	349	151	189	270	250	355	12-25	63	HP-125
300A	450	202	226	310	300	400	16-25	75	HP-160

CAST STAINLESS STEEL FOR WATER GATE VALVE 10K(제수변) KSD 4308

HWGA



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS CORROSION SERVICE	REMARKS
1	BODY	SCS 13	
2	BONNET	SCS 13	
3	DISC	SCS 13	
4	STEM	STS 304	
5	GLAND FLANGE	SCS 13	
6	PACKING GLAND	SCS 13	
7	CAP	FC200	
8	GASKET	RUBBER	
9	PACKING	TEFLON	
10	O-RING	N.B.R	
11	STEM BUSH	BC6	
12	BONNET BOLT	STS 304	
13	BONNET NUT	STS 304	
14	SPRING WASHER	STS 304	
15	GLAND BOLT	STS 304	
16	GLAND NUT	STS 304	
17	SET BOLT	STS 304	
18	BOTTOM WASHER	C3604BD	
19	TOP WASHER	C3604BD	

NOTE 1. Packing & gasket material : customer's requirements

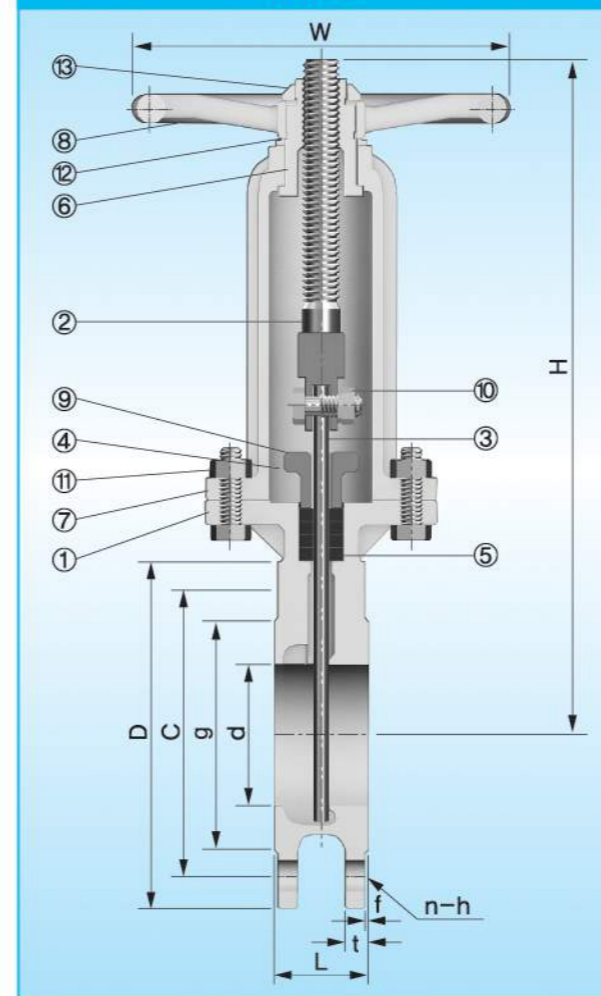
■ DIMENSION

(mm)

SIZE (A)	FACE TO FACE L	FLANGE						H	개폐회전수
		D	C	G	T	F	N-H		
50	178	155	120	100	16	2	4-19	341	
80	203	200	160	133	18	2	4-19	388	
100	229	220	180	153	18	2	8-19	431	
150	267	285	240	209	22	2	8-23	513	
200	292	340	295	264	22	2	8-23	603	
250	330	395	350	319	24	2	12-23	718	
300	356	445	400	367	24	3	12-23	802	
350	381	505	445	427	26	3	16-23	904	
400	406	565	515	477	28	3	16-28	1018	
500	457	670	620	582	30	3	20-28	1189	
600	508	780	725	682	40	3	20-31	1378	
700	610	895	840	797	46	4	24-31	1600	

KNIFE GATE VALVE 10K(LUG)

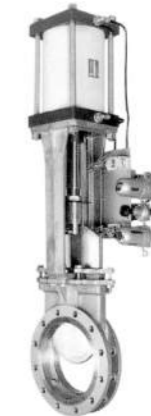
HKG



PARTS OF MATERIAL

No	PARTS NAME	KS SPECIFICATIONS CORROSION SERVICE	REMARKS
1	BODY	SCS 13	SCS 14
2	STEM	SUS 304	SUS 316
3	DISC	SCS 13	SCS 14
4	GLAND	SCS 13	SCS 14
5	GLAND PACKING	TEFLON/ASBESTOS	TEFLON/ASBESTOS
6	YOKE SLEEVE	BC6 / DCI	BC6 / DCI
7	YOKE	SCS 13	SCS 14
8	HANDWHEEL	DCI	DCI
9	GLAND BOLT/NUT	SUS 304	SUS 304
10	DISC BOLT/NUT	SUS 304	SUS 304
11	YOKE BOLT/NUT	SUS 304	SUS 304
12	GREASE NIPPLE	BC	BC
13	NAME PLATE	AL	AL

NOTE 1. Packing & gasket material : customer's requirements



■ DIMENSION

(mm)

CLASS	SIZE DIMENSION	IN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20
		MM	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500
10K	L : FACE TO FACE	-	-	-	-	-	47	51	51	51	57	57	70	70	76	76	89	114	114	
	H : VALVE OPEN HEIGHT	-	-	-	-	-	520	550	590	675	765	830	980	1170	1335	1460	1610	1770	2050	
	W : HAND WHEEL DIA.	-	-	-	-	-	180	200	200	240	280	280	320	400	450	500	560	550	550	

PUNCHING SCREEN

1. PERCENTAGE OF OPEN AREA

Even the "MESH" is same, OPEN AREA is not always same due to the diameter of wire,
The formula of OPEN AREA PERCENTAGE is as follows;

$$\text{OPEN AREA PERCENTAGE} = \left(\frac{a}{a+b} \right)^2 \times 100\%$$

a:Width of Opening
b:Diameter of Wire

The details of wire as follows:

A: Number of Wire B: Diameter of Wire C: Width of Opening D: Percentage of OPEN AREA

MESH	A SWG	B m/mφ	C m/m	D
5	20	0.914	4.166	67.3
10	22	0.711	1.829	51.8
20	28B	0.356	0.914	51.8
30	32	0.274	0.572	45.7
40	36	0.193	0.442	48.4
50	37	0.172	0.336	43.6
60	38	0.152	0.271	41.0
80	40	0.122	0.195	37.8

MESH	A SWG	B m/mφ	C m/m	D
100	42	0.102	0.152	35.8
120	43	0.092	0.119	31.8
150	45½	0.066	0.103	37.1
180	46½	0.053	0.088	38.9
200	47	0.051	0.076	35.8
250	48	0.039	0.062	37.7
300	48	0.040	0.044	27.6

2. OUTSIDE SCREEN (protecting net)

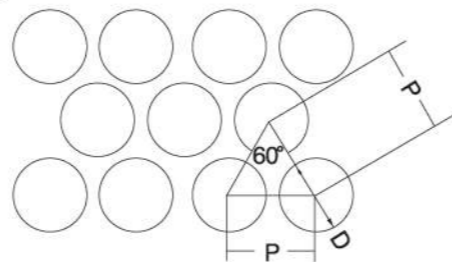
For the Outside Screen a stainless steel plate perforated in 60-degree staggered arrangement is used.

For the OPEN AREA you can use the formula below.

$$F = \frac{\sqrt{3} \times \pi}{6} \times \left(\frac{D}{P} \right)^2 \times 100\% \approx \frac{91 \times D^2}{P^2} (\%)$$

N.N.P: diameter of perforation
: pitch

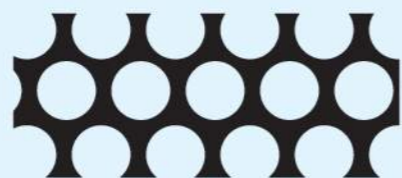
* Following are JIN SAN standard outside screen



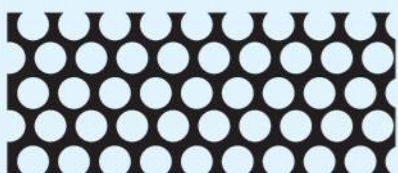
OUTSIDE SCREEN



0.8φ × 1.8P
Open Area 17.9%



6φ × 7.5P
Open Area 58.0%

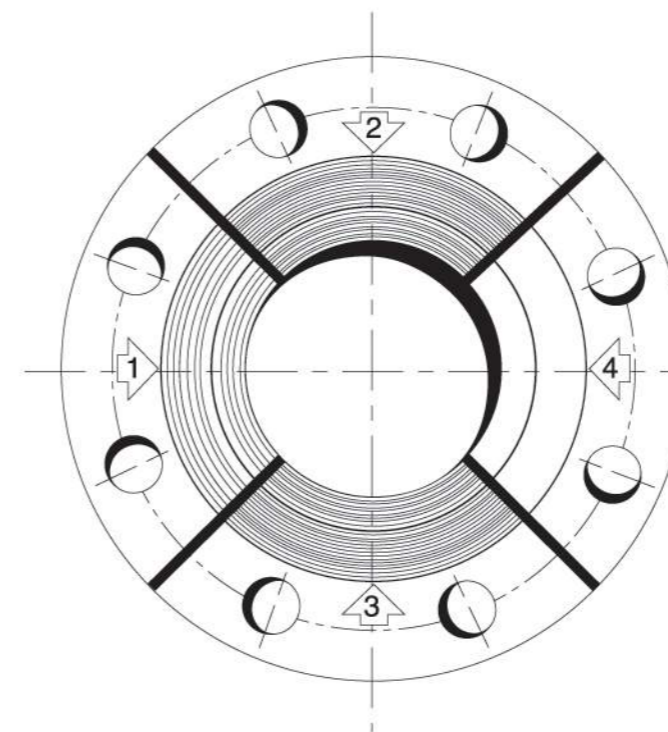


3φ × 4P
Open Area 51.0%

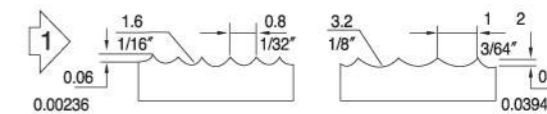


10φ × 12.5P
Open Area 58.0%

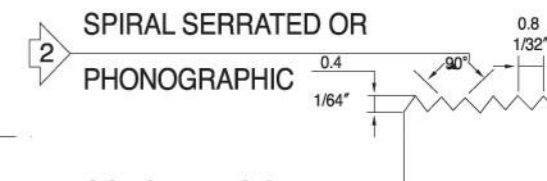
STANDARD FINISHES For Face of Flange (MSS SP6)



STOCK FINISH



2 SPIRAL SERRATED OR PHONOGRAPHIC



3 CONCENTRIC SERRATED



4 SMOOTH FINISH



STOCK FINISH: The most widely used of any gasket finish, because, practically, is suitable for all ordinary service conditions. This is a continuous spiral groove. Flanges sizes 12" and smaller, are produced with a 1/16" round-nosed tool at a feed of 1/32" per revolution. For sizes 14" and larger, the finish is made with 1/8" round-nosed tool at a feed of 3/64" per revolution.

SPIRAL SERRATED OR PHONOGRAPHIC: This finish is produced by using a 90. included-angle (V) tool, making a spiral groove 1/64" deep with a feed of 1/32".

CONCENTRIC SERRATED: This finish is produced by using a 90. included-angle (V) tool, making concentric groove 1/64" deep and 1/32" apart.

SMOOTH FINISH: This finish is produced by several shapes of tools cutting at speeds and feeds which leave no definite tool marks apparent to the naked eye.

1. RAISED FACE, AND LARGE MALE AND FEMALE

Either a serrated-concentric or serrated-spiral finish having from 24 to 40 grooves per inch is used.

The cutting tool employed has an approximate 0.06 in. or larger radius. The resultant surface finish has a 500microinch(12.5 μm) approximate roughness.

2. TONGUE AND GROOVE, AND SMALL MALE AND FEMALE

The gasket contact surface does not exceed 125microinch(3.2 μm) roughness.

3. RING JOINT

The inside well surface of gasket groove does not exceed 63microinch(1.6 μm) roughness.

4. BLIND

Blind flanges need not be faced in the center if, when this center part is raised, its diameter is at least 1 in smaller than the inside diameter of fittings of the corresponding pressure class. When the center part is depressed, its diameter is not greater than the inside diameter of the corresponding pressure class fittings. Machining of the depressed center is not required.

TEST SPECIFICATION

■ HYDROSTATIC TEST PRESSURE

All Test Pressure is in Pounds Per Square Inch Gage(PSI)

Material	150psi		300psi	
	shell	seat	shell	seat
ASTM A216 -WCB	450	315	1125	815
ASTM A351 -CF8, CF3	375	260	925	675
ASTM A351 -CF8M, CF3M	375	260	925	675

■ DURATION OF REQUIRED TEST PRESSURE

Valve Size (NPS)	TEST DURATION (Seconds Minimum)		
	shell	Back Seat	Seat
2" And smaller	15	15	15
2½" To 6"	60	15	60
8" To 12"	120	15	120
14" And Larger	300	15	120

Air Test : Pressure Max. 6kgf/cm²(80psi)
Reference Code : ANSI B16.5 API 598
JPI-7S-39 KS B 2304

MATERIAL COMPARISON

■ ASTM, KS AND JIS

Material Classification	ASTM		KS		JIS	
	SYMBOL	CODE NO	SYMBOL	CODE NO	SYMBOL	CODE NO
Stainless Steel (Casting)	CF8	A 351	SCS 13A	D 4103	SCS 13A	G 5121
	CF8M		SCS 14A		SCS 14A	
	CF3M		SCS 16A		SCS16A	
	CF3		SCS 19A		SCS 19A	
	CG3M					
Stainless Steel (Bar And Plate)	304	A 276	STS 304	D 3706	SUS 304	G 4303
	316		STS 316		SUS316	
	316L		STS 316L		SUS 316L	
			STS 317L		SUS 317L	
			STS 403		SUS 403	
Cast Steel And Cast Iron	WCB	A 216	SCPH 2	D 4107	SCPH2	G 5151
	B	A 216	GC 20	D 4301	FC 20	G 5501
	60-40-8	A 536	GCD 40	D 4302	FCD 40	G 5502
		A 197	BMC 28	D 4303	FCMB 28	G 5702
Copper Alloy	C 86500	B 584	HBs C2	D 5101	HBs C2	H 5102
	C 36000	B 16	C 3604		C 3604	
	C 377000	B 124	C 3771		C 3771	H 3250

영업소 전경
Complete View of Business Office



영업소 취급품목
Business Office Handling Articles



영업소 내부
Inside of Business Office



① 셀중자
Other Cells



② 주조
Casting



③ 쇼트
Short



④ 기공
Process



⑤ 드릴
Drill



⑥ 조립 대기
Assembling



⑦ 수압 테스트
Water Pressure Test

