

흐름에서 가치를 창조하는 기업

YIHWAN

VALVES, GATES & ACTUATORS

FOR WATER WORKS PURPOSES

상하수도용 밸브 및 게이트

WATER

SEWERAGE

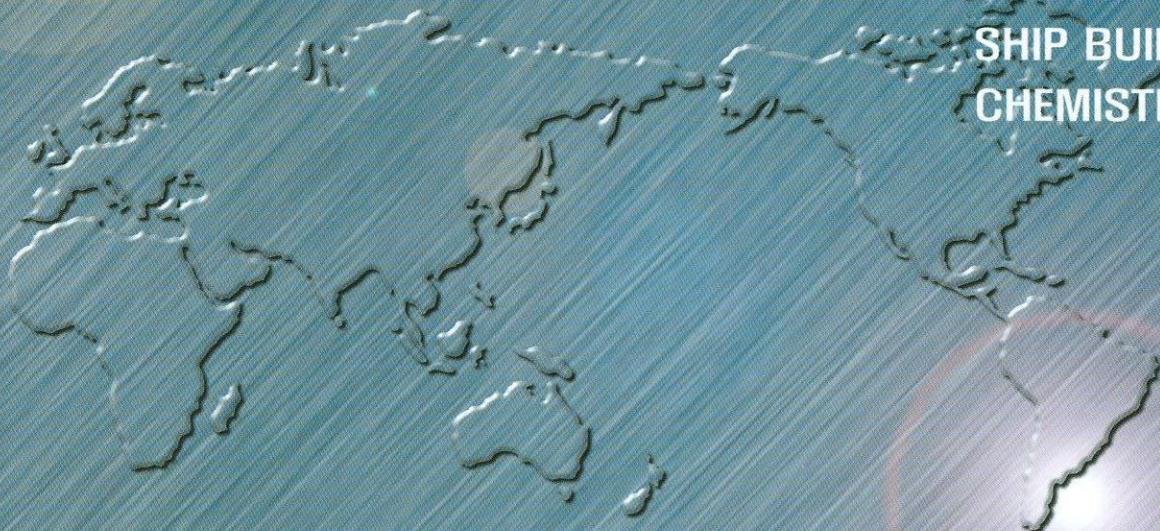
GAS

POWER PLANT

IRON STEEL

SHIP BUILDING

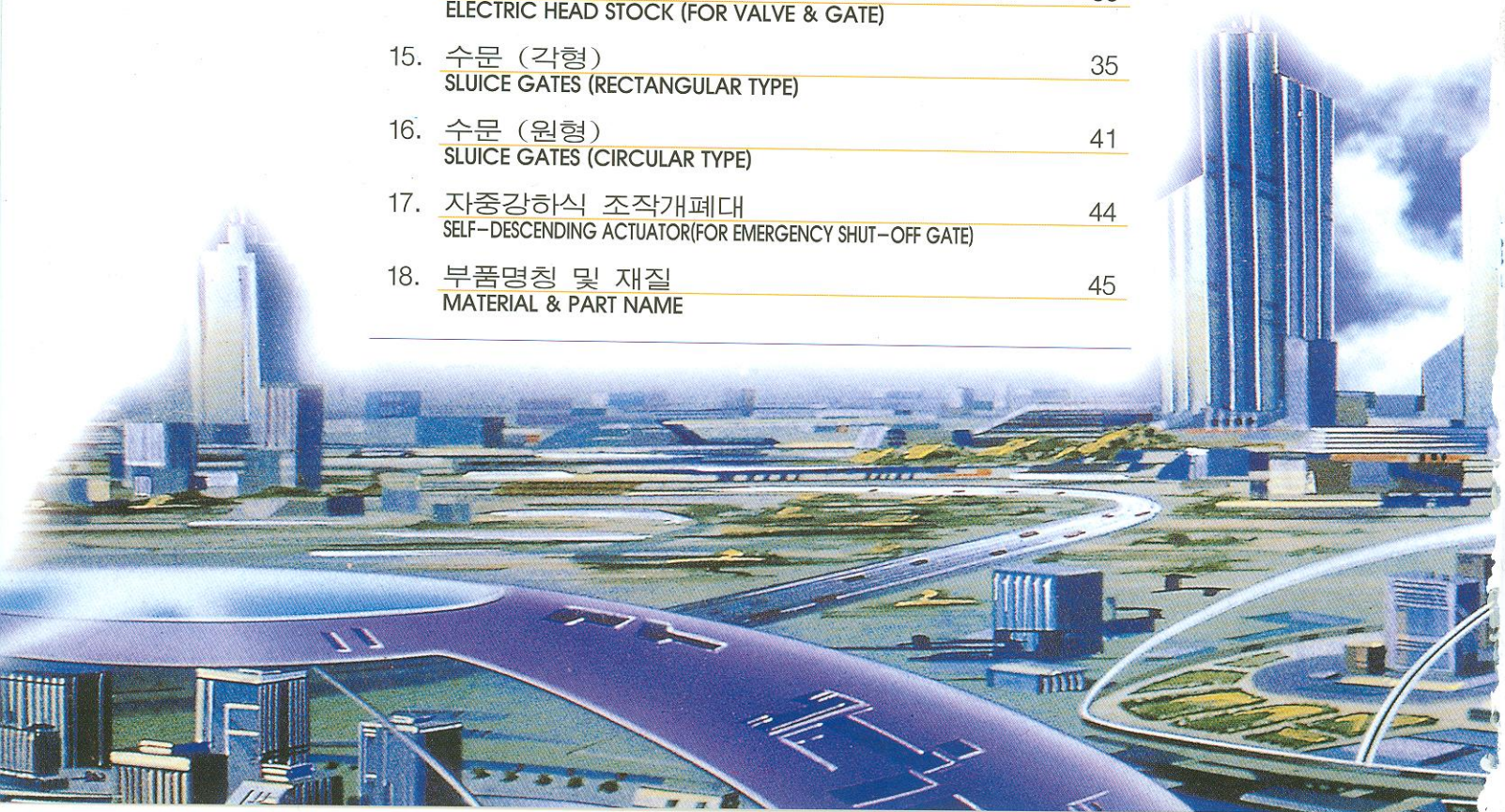
CHEMISTRY



YI HWAN INDUSTRIAL COMPANY

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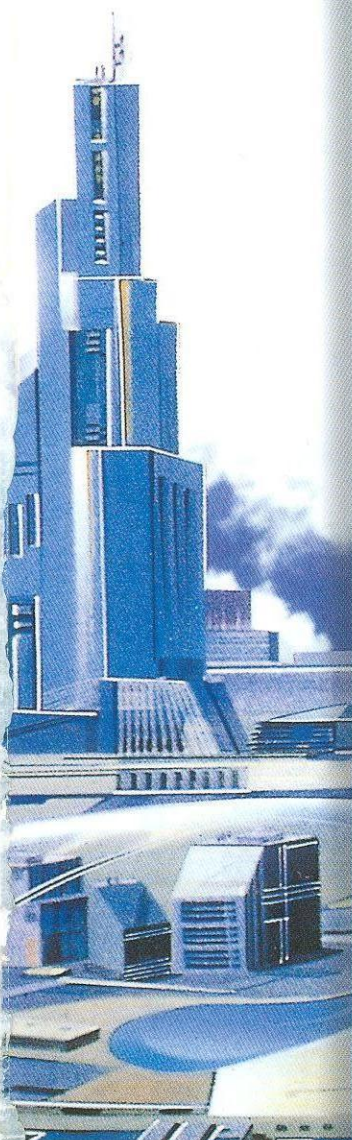


새천년의 신기술과 시공능력 ISO 9002, 실용신안, KS 인증획득을 통해 명실 상부한 중견 제조·밸브 업체로서 그능력을 인정 받았습니다.

당사는 정수장, 하수종말처리장, 폐수처리장, 배수펌프장, 가압장, 발전소, 지역난방, 석유화학 PLANTS, GENERAL INDUSTRIAL PLANTS에 소요되는 VALVE, GATE 및 ACTUATOR (ELECTRIC, PNEUMATIC & HYDRAULIC), RETROFIT(VALVE 자동화) 및 COMMISSIONING & ENGINEERING에 대하여 END-USER의 요청에 의거하여 현장사항을 파악하여 설계 개발계획, 설계심사, 설계검증 설계검인증, 설계변경등의 가정을 통한후, 고객의 요구사항을 충족 시킬수 있는 제품을 공급함으로써 생산제품의 고급화, 생산성 증대 및 경제적 이익증진 및 나아가 “깨끗한 환경 맑은 물” 보존의 선두주자로 성장하고자 하며, 사회와 국가 발전에 공헌함에 그 목적이 있습니다.

회사연혁

- 1996. 12. 이환산업 설립
- 1997. 7. 품질시스템(KS A 9002 / ISO 9002) 인증 취득
- 1998. 3. 실용신안권 : 내부확인투시창을 형성한 버터플라이밸브 (제075387호)
실용신안권 : 수문의 시이트 장치 (제080301호)
특허 : 퍼펙트 비상차단 게이트 (제0323463호)
실용신안권 : 수문의 누수 및 파손차단장치
Self Flushing type (제01711378호)
- 1998. 8. 한국밸브공업협동조합 가입
- 2000. 6. 실용신안권 : 밸브누수감지장치 (제0192307호) 취득
- 2000. 10. 한국산업규격 표시 인증 취득
(수도용 버터플라이밸브 KS B 2333)
(수도용 덕타일 주철 제수밸브 KS B 2334)
- 2001. 4. 실용신안권 : 소프트 메탈 시트 버터플라이밸브 (제0230331호) 취득
- 2001. 4. 실용신안권 : 방탄 이중 점검창 부착형 버터플라이밸브
(제0230332호) 취득
- 2001. 7. 16 유망중소기업 지정 (부산은행)
- 2002. 2. 22 모범경영자 표창장 수상 (중소기업협동조합중앙회)
- 2002. 7. 품질시스템 KS A 9001 : 2001 / ISO 9001 : 2000 인증 갱신
- 2004. 10. 27 실용신안권 : 더블실링 소프트메탈시트 버터플라이밸브
(제0366883호) 취득



영업품목

수도용제수밸브(KSB 2332) Gate Valve

- | | |
|--------|-------------------------------|
| 1. 수동식 | 5. 공기압식 |
| 2. 치차식 | 6. 전동구동장치부 |
| 3. 전동식 | 7. 고무시트밸브(Soft sealing valve) |
| 4. 유압식 | 8. 스테인레스 제수변 |

버터플라이밸브(Butterfly Valve) (KS B 2333)

- | | | |
|--------|------------|---------------|
| 1. 수동식 | 4. 공기압식 | 7. Wafer Type |
| 2. 전동식 | 5. 전동구동장치부 | 8. 투시창 부착형 |
| 3. 유압식 | 6. 전동공기압식 | 9. 소프트 메탈 시트형 |

역지변(Check Valve)

1. 스윙직폐식
2. 완폐식
3. 데쉬포트식체크밸브 (Dashpot Type Check Valve)
4. 전동공기압식 체크밸브 (Pneumatic Air Cylinder Eccentric Check Valve)
5. 논슬램 BF 역지밸브 (Non-Slam BF Check Valve)

수문(Sluice Gate)

- | | |
|---------|-------------------|
| 1. 수동식 | 5. 웨어식(Weir Type) |
| 2. 전동식 | 6. 시트장치 부착형 |
| 3. 공기압식 | 7. 셀프 프래싱형 |
| 4. 유압식 | |

펌프콘트롤 밸브

- | | |
|---------------|------------|
| 1. 버터플라이 체크밸브 | 4. 후 로트 밸브 |
| 2. 볼 밸브 | 5. 콘 밸브 |
| 3. 플러그 밸브 | |

긴급차단밸브 (Non- Return)

수동밸브 전동화 (Retrpit)

급속공기밸브

수도용공기밸브 (Air Valve) KSB 2340

1. 단구 : 13 ϕ , 20 ϕ , 25 ϕ , (80 ϕ)
2. 쌍구 : 50 ϕ , 75 ϕ , 100 ϕ , 150 ϕ (200 ϕ , 250 ϕ)

소화전 (HYDRANT)

(지하식 소화전 F형 100 ϕ)

신축관

1. 양약(밸브 접관관) 신축관
2. 수압신축관
3. 벨로즈식

기타사업품목 : 각종수처리기계, 게이트 설치공사

수도용 제수밸브 / 수도용 덕타일 주철 제수밸브

Sluice Valves / Ductile Cast Iron Sluice for Waterworks

제수밸브

제수밸브는 주로 상수도에 사용되는 것으로 이 밸브는 KSB 2332 (JIS2062 BS5163) 및 KSB2334 의 사양을 만족시킵니다. 개폐방식은 수동, 전동, 개폐대식(2상식) 및 실린더형 등이 있습니다. 수도용 덕타일 주철제수밸브는 KS마크 표시 인증번호 00-1607호 에 의해 인증 받았습니니다.

사 양

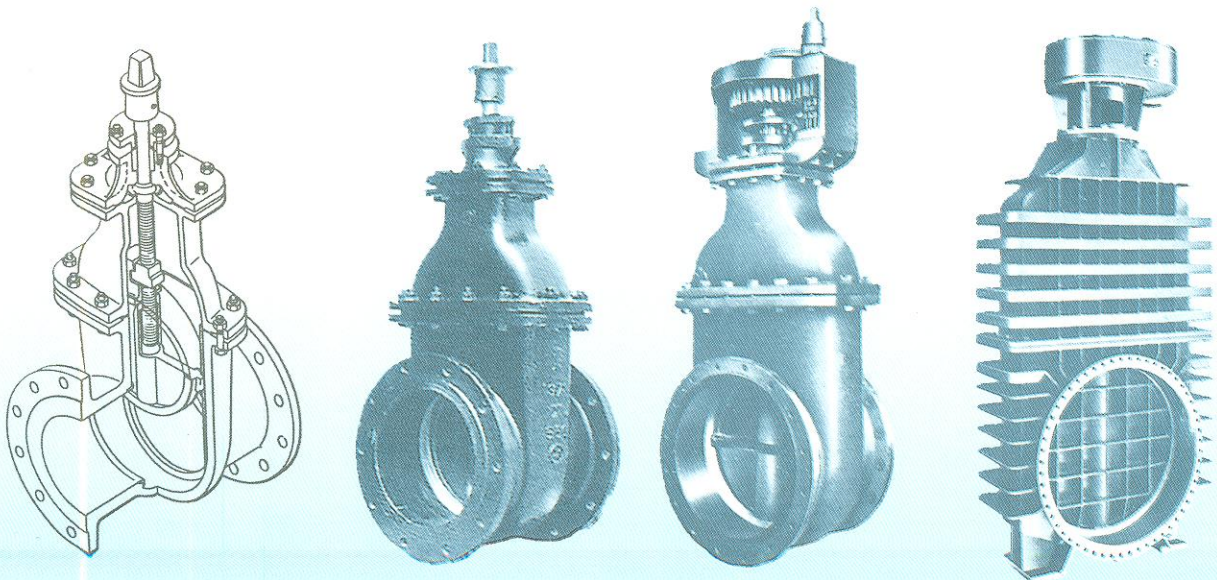
- 규 격
 - 수직형 : 50 m/m - 1,200 m/m
 - 수평형 : 400 m/m - 1,500 m/m
 - (ϕ 1500이상 대구경도 제작가능합니다.)
 - 사용압력
 - 최고 7.5kgf/cm²(수요자 요구에 따라 16kgf/cm², 20kgf/cm²도 가능합니다)
 - 밸브접합부
 - 플랜지(KS D 4309, ISO R 13)
 - 수요자의 요구에 따라서 다른 규격도 적용할 수 있습니다.
 - 사용유체 : 물,
 - 열림방향 : 반시계방향(왼쪽)
 - 시험압력
 - 시트누설시험 ----- 7.5kgf/cm²
 - 몸통내압시험 ----- 17.5kgf/cm²(50~350m/m)
 - 14kgf/cm²(400~1,500m/m)이상
 - 주요재질
 - 몸 통 : 회주철품 (GC 200)
 - 덕타일주철품 (GCD 450)
 - 디 스크 : 회주철품 (GC 200)
 - 덕타일주철품 (GCD 450)
 - 밸브대 : 단조황동봉(C 3771-BE)
 - 고강도황동봉 (C 6782-BE)
 - 스테인레스강 (STS 304, 403)
 - 시 트 : 청동주물 (BC 6) 스테인레스강 (STS 304, 403)
- 수요자의 요구에 따라서 다른 재질도 적용할 수 있습니다.

Sluice Valves

Intended Primarily for use with service water, this valve meets specification of KSB 2332(JIS2062 BS5163)KSB 2334 Available in several moodsels, Operated manually, by motor, by headstock, or by clinder.

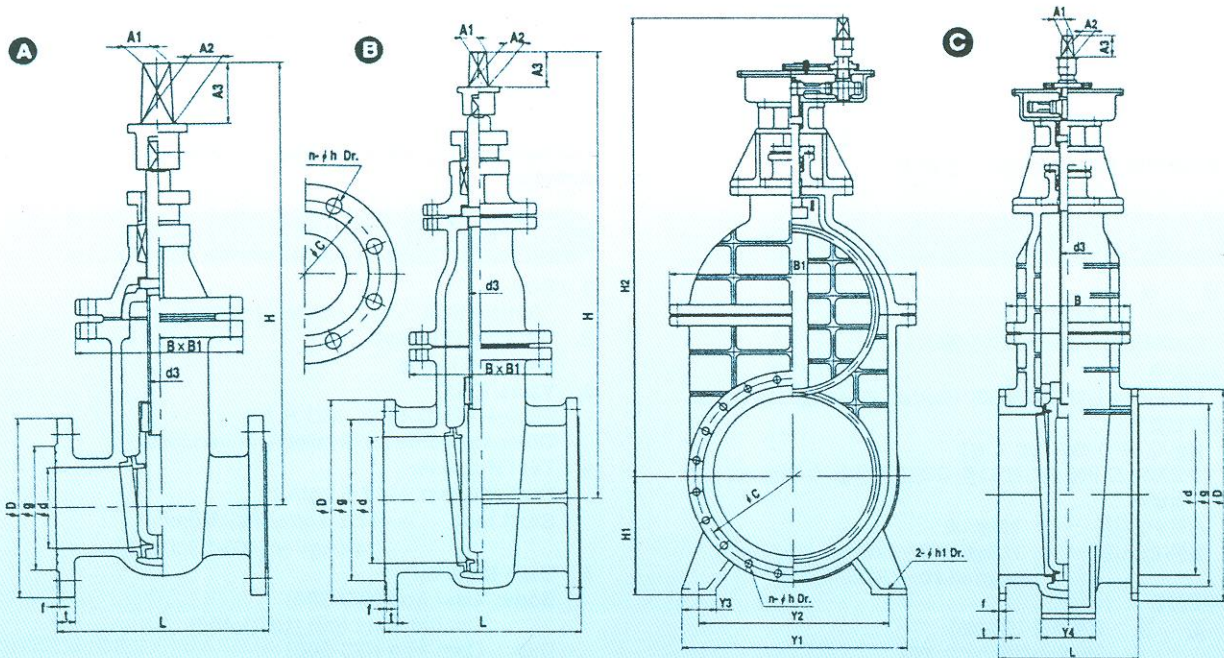
Specification(standard)

- Size :
 - Vertical type ---- 50mm - 1,200mm
 - Horizontal type ---- 400mm - 1,500mm
 - Working Pressure :
 - Max. 7.5 kgf/cm² (16kgf/cm², 20kgf/cm²)
 - Valve End :
 - Flange (KS D 4309, ISO R 13)
 - Other standards are available on request.
 - Fluid: ----- Water
 - Direction of Opening :
 - Counter-clockwise to open
 - Test Pressure :
 - Leakage test ---- 7.5 kgf/cm²
 - Shell test ----17.5 kgf/cm² (50-350mm)
 - 14kgf/cm² (400-1,500mm)
 - Main Material
 - Body : Cast Iron (GC 200)
 - Ductile Cast Iron (GCD 450)
 - Disk : Cast Iron (GC 200)
 - Ductile Cast Iron (GCD 450)
 - Stem : High tensile brass (C 3771BE)
 - High tensile brass (C 6782)
 - Stainless Steel (STS 304, 403)
 - Seat : Bronze Casting (BC6)
 - Stainless Steel (STS 304, 403)
- The Other materials are available on request.



제수밸브 치수표(수직형) / 덕타일 주철 제수밸브

Dimensions of Sluice Valves / Ductile Cast iron Sluice (Vertical Type)



단위 : mm

Bore (d)	Face to Face	Flange					Body	Spindle	Height	Cap			Rev-of Opening	Model	
	L	ΦD	Φg	ΦC	t x f	n x Φh	B x B1	d3	T/in	H	A1	A2			A3
50	180	155	100	120	20 x 2	4-19	135x162	20	6.0	340	32	38	75	14	(A)
80	240	200	133	160	24 x 3	4-19	181x225	26	4.0	450	32	38	75	14	
100	250	220	153	180	25 x 3	8-19	198x254	28	3.5	530	32	38	75	18	
125	260	250	183	210	25 x 3	8-19	212x286	32	3.5	600	32	38	75	22	
150	280	285	209	240	26 x 3	8-23	220x318	35	3.0	660	32	38	75	20	
200	300	340	264	295	27 x 3	8-23	264x396	40	3.0	770	32	38	75	26	
250	380	395	319	350	29 x 3	12-23	276x454	44	2.5	880	32	38	75	26	(B)
300	400	445	367	400	31 x 4	12-23	292x516	46	2.5	980	32	38	75	31	
350	430	505	427	460	32 x 4	16-23	320x582	50	2.5	1090	32	38	75	36	
400	470	565	477	515	34 x 4	16-28	376x656	52	2.25	1230	32	38	75	34	
450	500	615	527	565	35 x 4	20-28	392x722	56	2.25	1340	32	38	75	39	
500	530	670	582	620	36 x 4	20-28	428x800	58	2.00	1440	32	38	75	43	
600	560	780	682	725	40 x 4	20-31	490x938	64	2.00	1860	32	38	75	87	(C)
700	610	895	797	840	46 x 4	24-31	536x1081	70	1.75	2070	32	38	75	101	
800	690	1015	904	950	49 x 5	24-34	602x1198	76	1.75	2300	32	38	75	144	
900	740	1115	1004	1050	51 x 5	28-34	628x1322	82	1.625	2530	32	38	75	165	
1000	770	1230	1111	1160	55 x 5	28-37	678x1442	88	1.625	2750	32	38	75	200	
1100	800	1366	1200	1270	61 x 5	32-37	700x1566	94	1.50	3010	32	38	75	220	
1200	820	1470	1304	1387	63 x 5	32-37	694x1670	100	1.50	3230	32	38	75	258	

전동구동식 제수밸브

Electric Drive Sluice Valves

전동구동식 제수밸브

표준 플랜지를 가진 전동조작기는 이환산업제품에 직접 취부가 가능합니다.

이 기구형식은 수동조작을 위한 핸들을 포함하고 강력한 조작기로써 뿐만 아니라 개폐의 정도를 나타내는 개도계 및 전개, 전폐 위치의 리미트스위치와, 과부하시의 톨크스위치 및 수동조작시의 안전장치로서 인터록스 위치도 내장하고 있습니다.

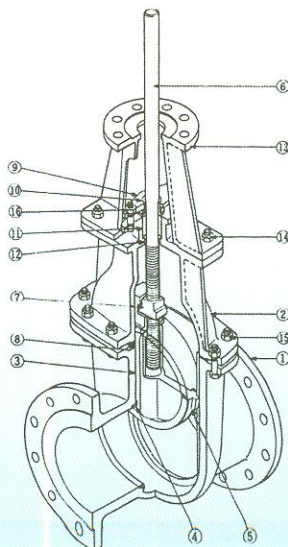
특수형으로 또한 방폭형도 가능합니다.

사 양

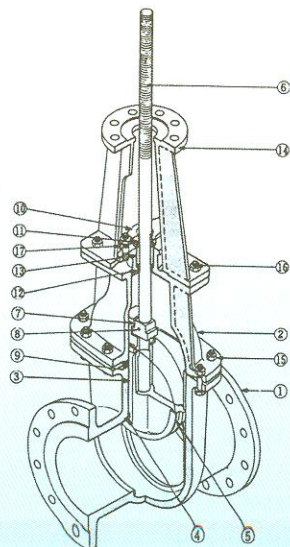
- 규 격
100^{m/m} - 1,500^{m/m}
(1500이상 대구경도 제작가능합니다.)
- 사용압력
7.5kgf/cm²(수요자 요구에따라 16kgf/cm², 20kgf/cm²도 가능합니다)
- 밸브접합부
플랜지(KS D 4309, ISO R 13)
수요자의 요구에 따라서 다른 규격도 적용할 수 있습니다.
- 시험압력
시트누설시험 ----- 7.5kgf/cm²
몸통내압시험 ----- 17.5kgf/cm²(50~350m/m)
14kgf/cm²(400~1,500m/m)
- 주요재질
몸 통 : 회주철품 (GC 200)
덕타일주철품 (GCD 450)
디 스크 : 회주철품 (GC 200)
덕타일주철품 (GCD 450)
밸브대 : 스텐레스강봉 (STS 304, 403)
크롬몰리브덴강 (SCM 440)
밸브시트 : 청동주물 (BC 6)
스텐레스강 (STS 304, 403)

수요자의 요구에 따라서 다른 재질도 적용할 수 있습니다.

■ NON-RISING STEM TYPE



■ RISING STEM TYPE



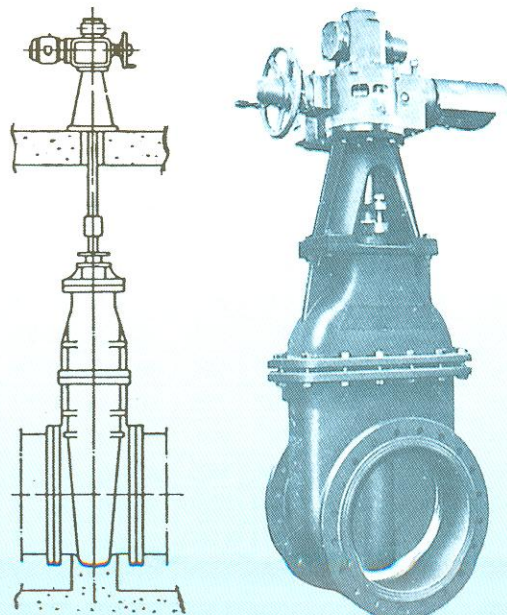
Electric Drive Sluice Valves

Electro drives with standard flanges are suitable for direct installation to our valves. The standard type includes a torque switch and a limit switch for both open and closed positions as well as an emergency actuator in form of a hand-wheel for manual operation and interlock switches for the safety device in manual operation.

As special type, there are also "explosion proof" actuators available.

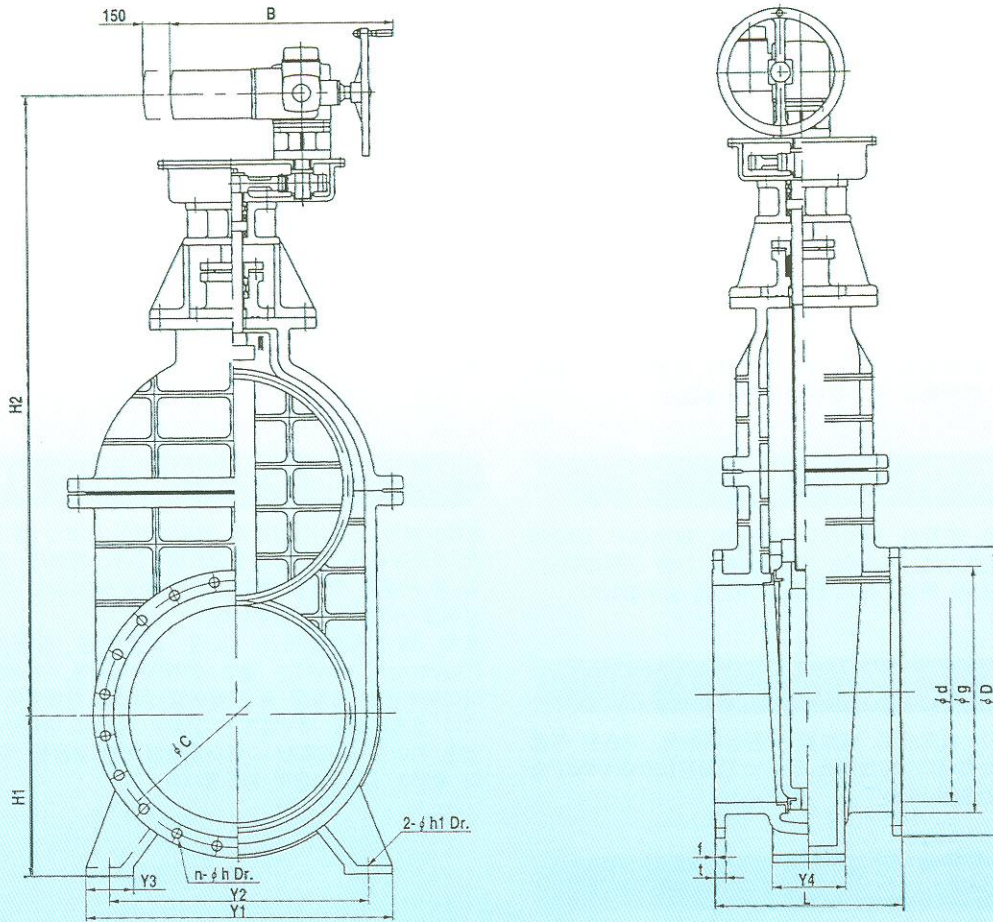
Specification(standard)

- Size :
Vertical type ---- 50mm - 1,500mm
- Working Pressure :
Max. 7.5 kgf/cm²
- Valve End :
Flange (KS D 4309, ISO R 13)
Other standards are available on request.
- Test Pressure :
Leakage test ---- 7.5 kgf/cm²
Shell test ---- 17.5 kgf/cm² (50-350mm)
14.0kgf/cm² (400-1,500mm)
- Main Material
Body: Cast Iron (GC 200)
Ductile Cast Iron (GCD 450)
Disk : Cast Iron (GC 200)
Ductile Cast Iron (GCD 450)
Stem: Stainless Steel (STS 304, STS 403)
Chromium Molybdenum Steels(SCM440)
Seat: Bronze Casting (BC6)
Stainless Steel (STS 304)
The Other materials are available on request.



전동구동식 제수밸브치수표

Dimensions of Electric Drive Sluice Valves



단위 : mm

Bore (d)	Face to Face	Flange						Height		Foot				Actuator	
	L	ΦD	Φg	ΦC	t×f	n×Φh	H1	H2	Y1	Y2	Y3	Y4	Φh1	B	Model
200	300	340	264	295	27×3	8-23	210	820	300	250	80	100	19	640	설계 에 의한 선정
250	380	395	319	350	29×3	12-23	240	885	400	330	80	100	19	640	
300	400	445	367	400	31×4	12-23	280	1000	420	330	100	125	19	955	
350	430	505	427	460	32×4	16-23	310	1085	480	380	100	150	19	955	
400	470	565	477	515	34×4	16-28	340	1310	540	440	100	180	24	955	
450	500	615	527	565	35×4	20-28	370	1420	600	500	125	200	24	955	
500	530	670	582	620	36×4	20-28	400	1600	650	550	125	250	28	1195	
600	560	780	682	725	40×4	20-31	450	1835	750	650	150	250	28	1195	
700	610	895	797	840	46×4	24-31	500	2010	860	760	150	250	32	1195	
800	690	1015	904	950	49×5	24-34	560	2220	980	880	150	250	32	1195	
900	740	1115	1004	1050	51×5	28-34	620	2425	1100	980	200	300	38	1195	
1000	770	1230	1111	1160	55×5	28-37	680	2650	1220	1100	200	300	38	1240	
1100	800	1366	1200	1270	61×5	32-37	750	2775	1320	1200	200	300	42	1240	
1200	820	1470	1304	1387	63×5	32-37	810	3000	1420	1300	250	350	42	1240	
1350	850	1642	1462	1552	68×6	36-38	900	3315	1600	1480	250	350	42	1280	
1500	900	1800	1620	1710	74×6	36-38	990	3630	1750	1600	300	400	42	1280	

소프트 실링밸브

Soft Sealing Valves

1. Simple Flow

As there are no guide flow of disk in low stage of valve body, there are no sticking phenomenon with disk, and alien substances (stone, sand, rust resident) is not accumulated, the obstacle in site part according to the alien substances will be prevented in advance, and resistance of flow body will be minimized and the flow body will be smooth.

2. Perfect Watertightness of Rubber Compressed Type

As the upper sheet part is all side rubber compressed method, not to be tape type of wedge, there are no abrasion and there are structure (refer to right side) to secure the perfect watertight not to effect watertightness for bend of pipeline condition installed the valve, and a little variation of new building.

3. Fusion Bonded Epoxy Coating + Rubber Lining

As the Fusion Bonded Epoxy Coating will be employed in the inside of valve and in the disk, whole type of all rubber lining will be employed, the rust generation will be prevented in advance.

4. Mutual Exchange of Spare Parts

As the spare parts will have the mutual exchange, exchange of the damaged spare parts will be possible in the condition of piping of valve. The working (valve disk is no need of scraping) will not be needed.

5. Perfect Opening & Closing Operation

As it is employed the rubber compressed type of sealing, it is simple and joyful while opening & closing of valve.

6. Easy for Handling of Piping

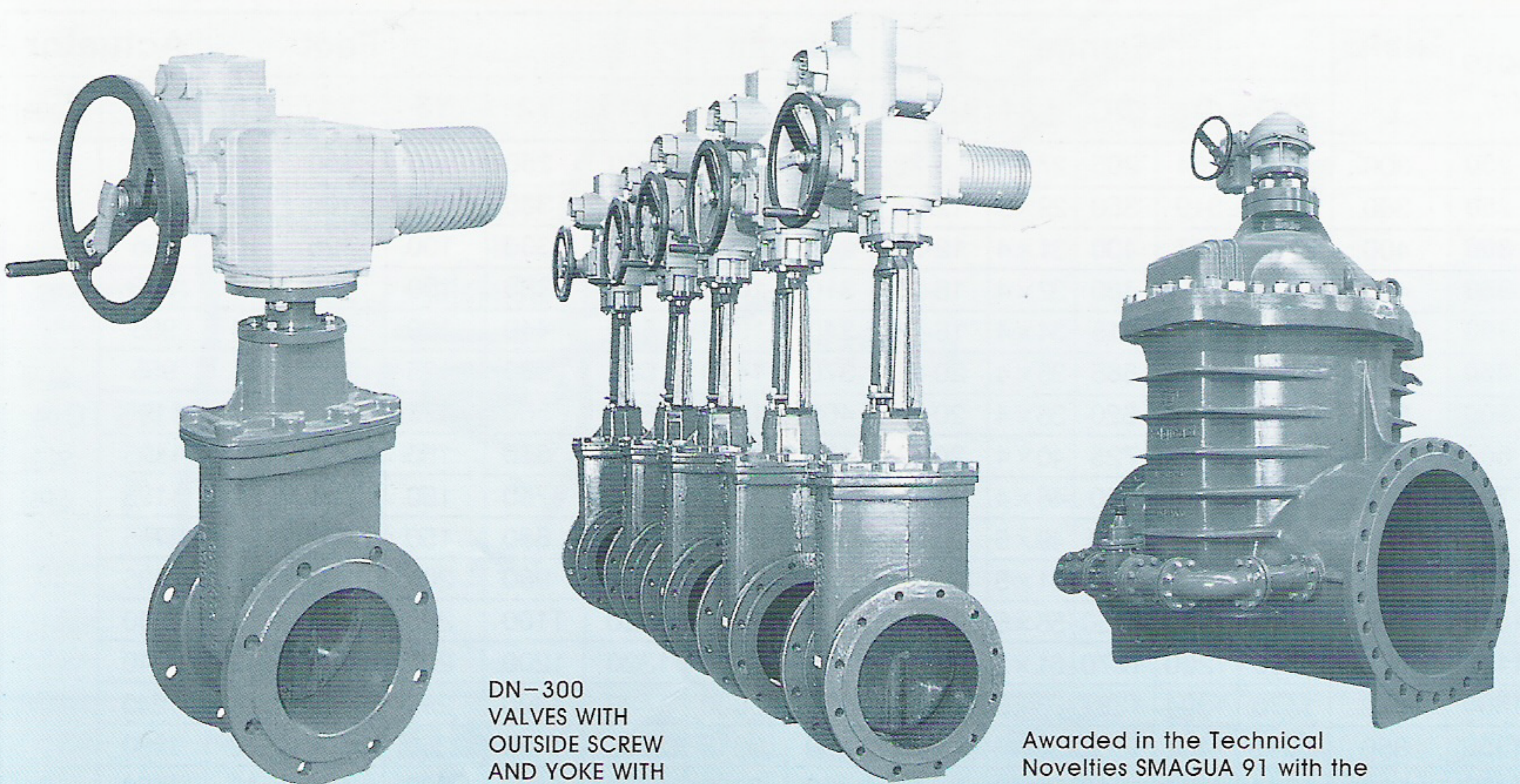
As it is fitted together with compacted structure, high strength of spheroidal graphitic cast iron (other name is Ductile/GCD450), Foot for installation, it is easy for working of transportation, custody and piping works than the existed valve.

7. Convenient for Maintenance

In the time of use, in case of leakage from the valve, the sealing spare parts of valve (Packing) could be simply exchanged in the condition of perfectly opened the valve, in the situation of water flowing.

8. Various Types of Usage/Outside Screw Type of Valve

As the outside screw type of valve, other than powder coating and rubber lining, is not contacted to the using fluid to screw portion of valve, it will be used to the every kind of fluid, as selected to match to usage of each material of parts, such as rubber, valve and valve nut. In particular, diaphragm valve that is widely used in sewage treatment plant is difficult to be used by brokage (to ripped up) under using of diaphragm of rubber plate that is cut-off membrane placed in the valve main body, but the soft seal sluice valve is a seat structure formed all of inside & outside of disk by rubber, and it will settle for defect of diaphragm valve and it is convenient for use and has long life.

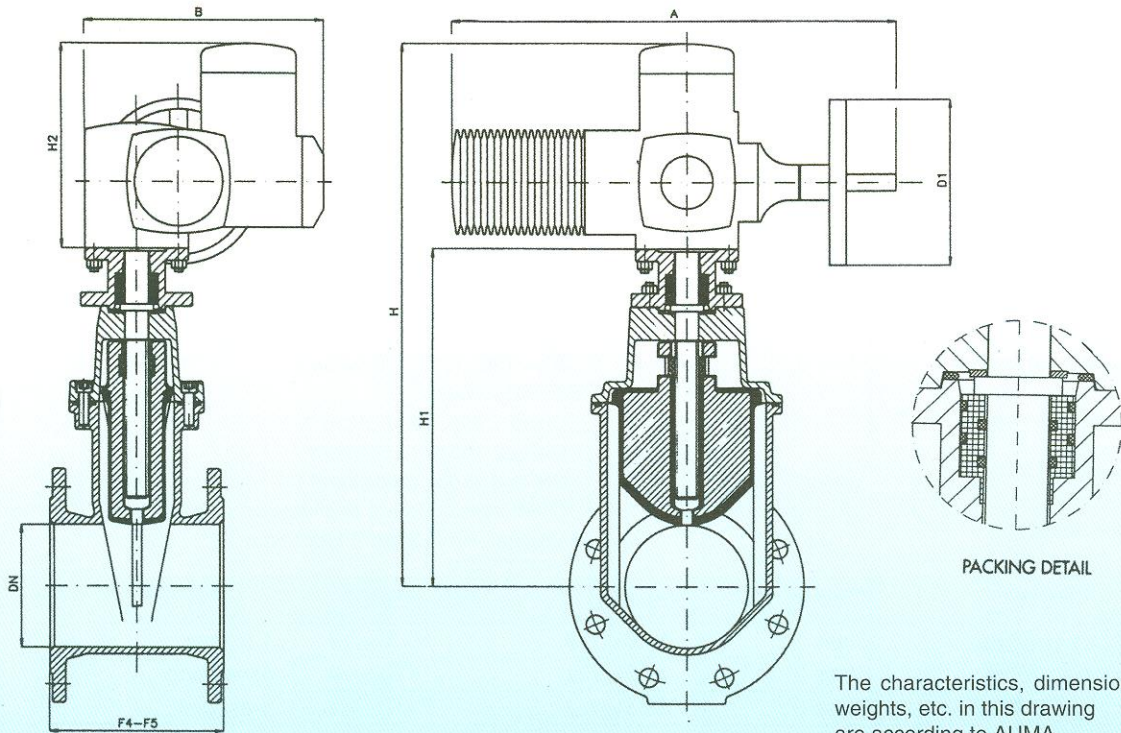


DN-300 VALVES WITH OUTSIDE SCREW AND YOKE WITH ELECTRIC ACTUATOR.

Awarded in the Technical Novelties SMAGUA 91 with the first prize.

전동구동식 소프트 실링밸브

Electric Drive Soft Sealing Valves



The characteristics, dimensions, weights, etc. in this drawing are according to AUMA actuators.

단위 : mm

DN	H	DIN 3202		H1	H2	A Maximum	B	D1	WEIGHT Kg		Closing TORQUE Mw.m	No. or tums for closing
		F4	F5						F4	F5		
40	495	140	240	177	318	495	287	140	29	30	20	10
50	510	150	250	192	318	495	287	140	31	32	20	12.5
65	525	170	270	207	318	515	287	160	34	36	30	13
80	515	180	280	265	250	528	312	200	45	47	30	16
100	550	190	300	300	250	538	312	200	51	53	30	20
125	600	200	325	350	250	538	312	200	57	60	40	25
150	645	210	350	395	250	538	312	200	66	70	70	30
200	755	230	400	465	290	705	375	315	121	129	80	33
250	850	250	450	560	290	705	375	315	149	164	130	45
300	925	270	500	635	290	705	375	315	178	198	180	50
350	925	290	550	635	290	707	375	400	197	211	180	50
400	1155	310	-	865	290	707	375	400	354	-	330	57
450	1155	330	-	865	290	707	375	400	384	-	330	57
500	1341	350	-	1031	310	886	422	500	649	-	400	63

버터플라이밸브

Butterfly Valves for Waterworks

버터플라이밸브

버터플라이밸브는 주로 상하수도에 사용되는 것으로 이 밸브는 KS B 2332(AWWAC504, BS5155 및 JISB2064) 의 사양을 만족시킵니다.

이용하는 여러 조작기 형식으로서 수동, 전동 구동개폐대식(2상식) 및 실린더형 등이 있습니다.

과중한 조건하에서도 운전이 용이하도록 설계되어 있습니다.

수도용 버터플라이밸브의 KS마크 표시인증을 인증번호 00-1606호에 의해 인증 받았습니다.

Butterfly valves

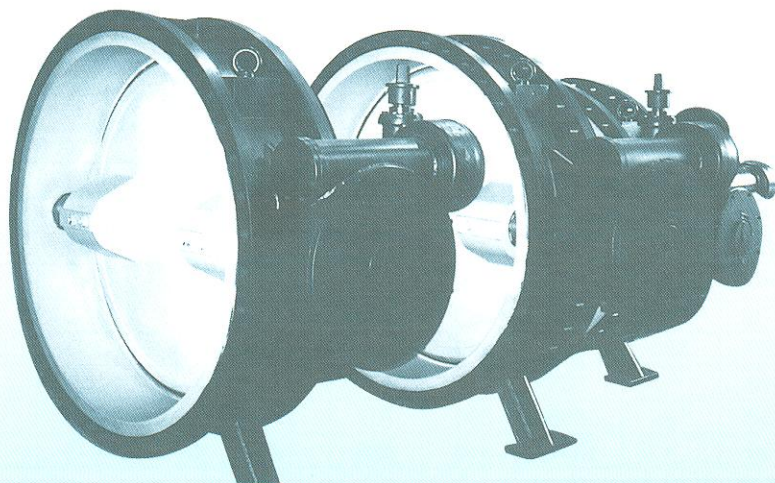
Intended Primarily for use with service water, this valve meets specification If KS B 2333(AWWA C 504, BS 5155 or JISB 2064) Available in several models, Operated manually, by motor, by head stock or by cylinder, Operation is seay and suited for heavy duty services.

Specifications

Nominal Diameter		
Type of Fluid		
Max. Working Pressure	.....	: 8" ~ 180" (200 ~ 4500mm) : Service Water
Flange Dimension	.....	: Class 1 65psi(4.5Kgf/cm ²) : Class 2 105psi(7.5Kgf/cm ²) : Class 3 150psi(10Kgf/cm ²)
Installation	.....	: Class 3 150psi(10Kgf/cm ²) Other standards are available on request
Hydraulic test	.....	: Vertical, Horizontal of Floor type

Part	Class	200-350	400-2000	2100mm Over size
(1) Body pressure	Class 1	14.0kg/cm ²	10.5kg/cm ²	1.5times of working pressure
	Class 2	17.5kg/cm ²	14.0kg/cm ²	
	Class 3	23.5kg/cm ²	21.0kg/cm ²	
(2) Seat leakage	Class 1	4.5kg/cm ²	4.5kg/cm ²	The same as the working pressure
	Class 2	7.5kg/cm ²	7.5kg/cm ²	
	Class 3	10.0kg/cm ²	10.0kg/cm ²	

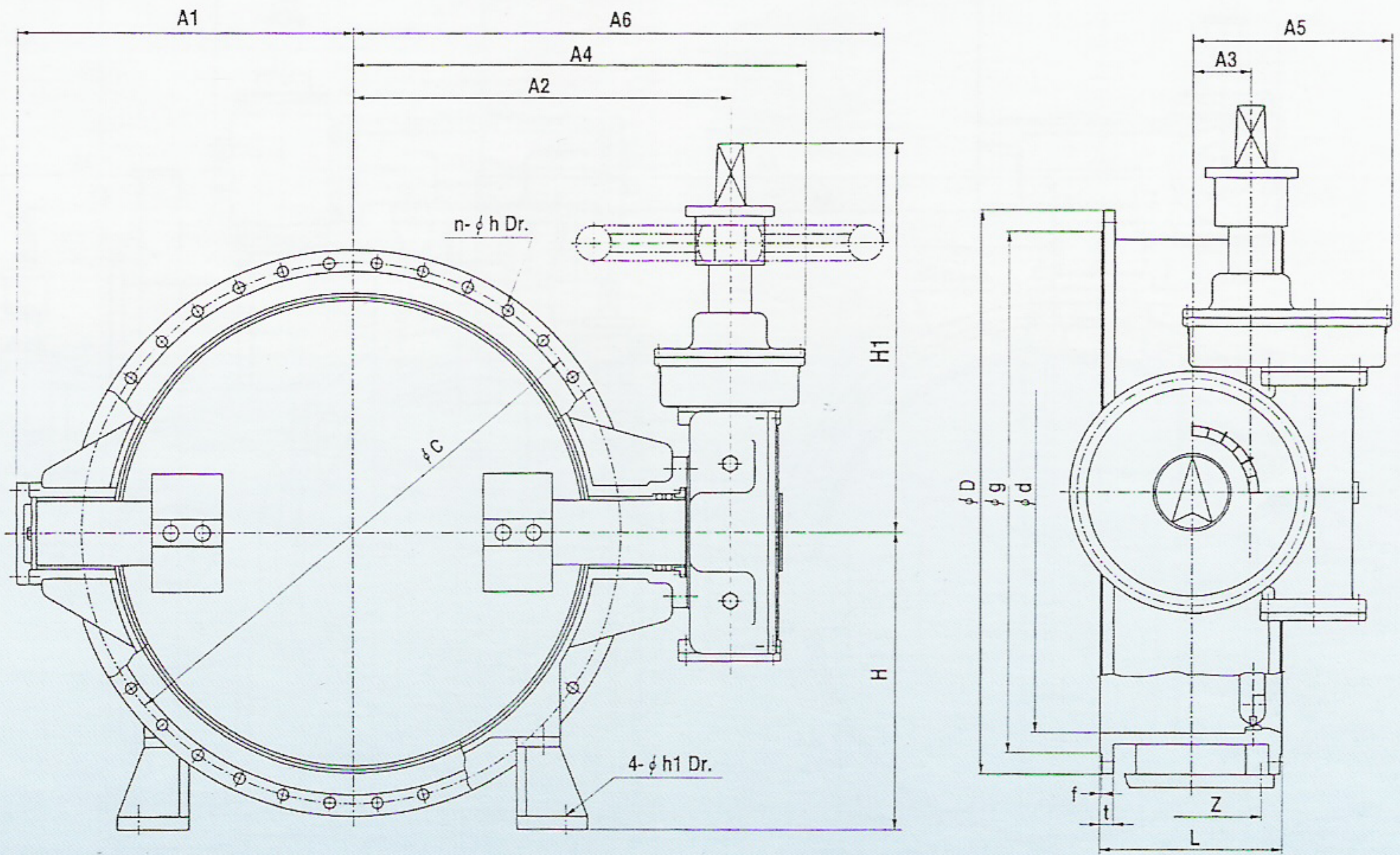
Coating	.....	: Asphalt varnish coating The other materials are available on request
Operation	.....	: Manual(Worm gear type) Electric(Worm gear Valve. actuator type) Cylinder type(Oil, Air or Water)



버터플라이밸브 치수표(수평형)

Dimensions of Butterfly Valves (Horizontal Type)

● Φ 200~ Φ 1200



단위 : mm

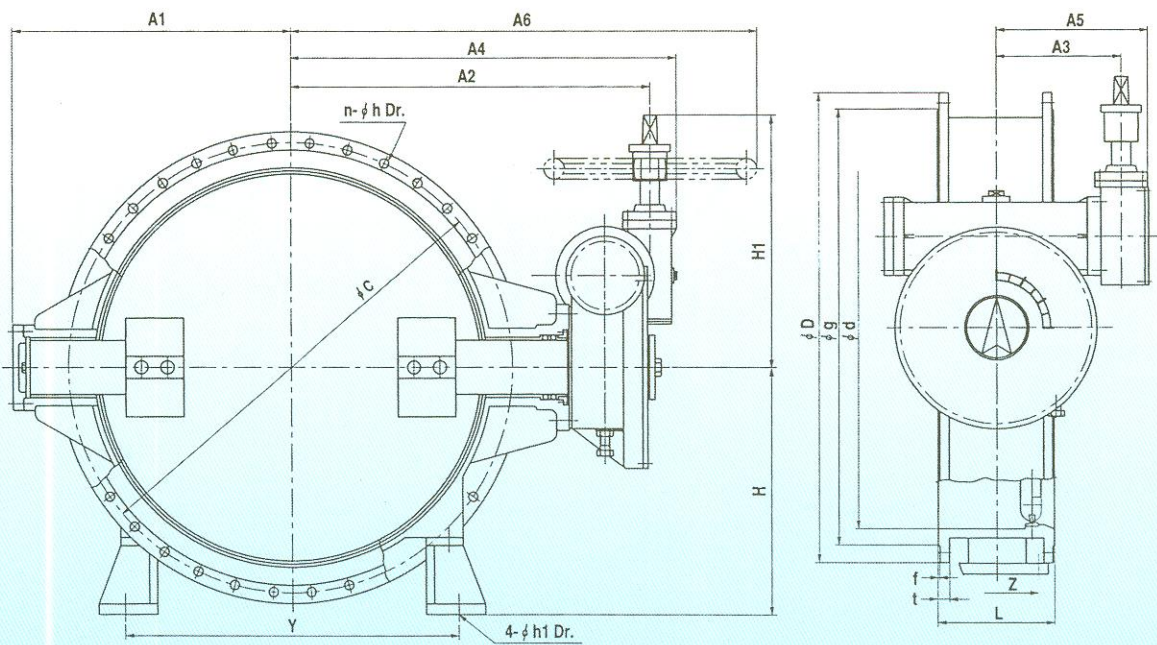
ND	L	Flange					A ₁	A ₂	A ₃	A ₄	A ₅	A ₆	H ₁	H ₂	Turns of Opening
		D	g	Bolt Hole		T × F									
				C	n-h										
200	152	340	264	295	8-23	27 × 3	320	360	80	425	120	485	260	-	10
250	165	395	319	350	12-23	29 × 3	350	420	105	490	170	545	360	-	10
300	178	445	367	400	12-23	31 × 4	400	440	105	510	170	565	360	-	10
350	190	505	427	460	16-23	32 × 4	440	470	105	540	170	620	360	-	10
400	216	565	477	515	16-28	34 × 4	480	525	150	605	225	715	410	-	12
450	222	615	527	565	20-28	35 × 4	520	555	150	635	225	775	410	-	12
500	229	670	582	620	20-28	36 × 4	550	595	150	675	225	815	410	-	12
600	267	780	682	725	20-31	40 × 4	620	670	80	770	367	890	590	450	12
700	292	895	797	840	24-31	46 × 4	700	755	80	850	367	975	590	500	28
800	318	1015	904	950	24-34	49 × 5	760	815	80	910	367	1065	590	550	28
900	330	1115	1004	1050	28-34	51 × 5	820	1015	365	1085	450	1280	680	600	28
1000	410	1230	1111	1160	28-37	55 × 5	900	1075	365	1145	450	1340	680	650	64
1100	450	1366	1200	1270	32-37	61 × 5	970	1240	365	1310	450	1540	680	700	64
1200	470	1470	1304	1387	32-37	63 × 5	1050	1285	400	1375	500	1585	755	750	64

500A 이하는 Spur Gear & Foot가 없음.

버터플라이밸브 치수표(수평형)

Dimensions of Butterfly Valves (Horizontal Type)

● Φ 1350~ Φ 3000



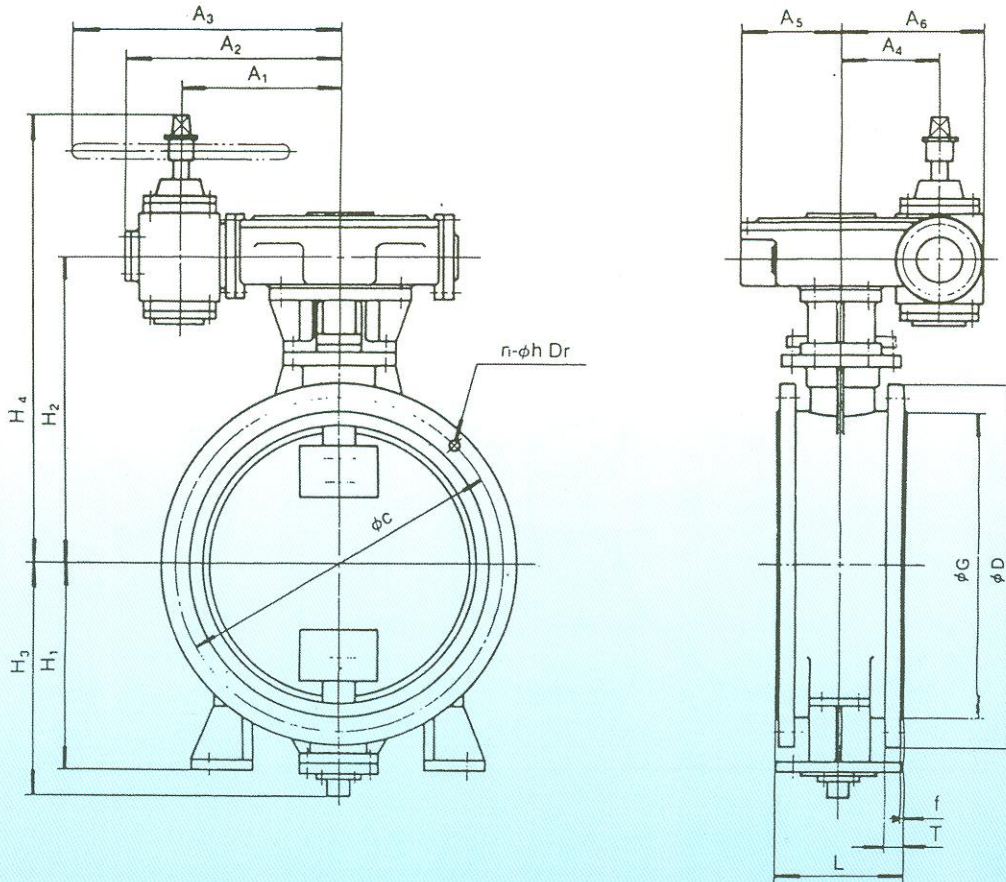
단위 : mm

ND	L	Flange					A ₁	A ₂	A ₃	A ₄	A ₅	A ₆	H ₁	H	Turns of Opening
		D	G	Bolt Hole		T×F									
				C	n- Φ h										
1350	530	1642	1462	1552	36-38	68×6	1170	1390	400	1480	500	1770	755	825	161
1500	530	1800	1620	1710	36-38	74×6	1270	1490	400	1580	500	1870	755	900	161
1650	530	1965	1810	1870	40-48	74×6	1350	1540	400	1630	500	1920	755	1050	180
1800	550	2115	1960	2020	44-48	76×6	1450	1785	565	1915	695	2165	980	1075	180
2000	550	2325	2170	2230	48-48	78×6	1550	1885	565	2015	695	2265	980	1175	180
2200	550	2550	2370	2440	52-56	58×6	1680	2045	565	2175	695	2425	980	1350	240
2400	580	2760	2570	2650	56-56	62×6	1840	2145	565	2275	695	2525	980	1450	240
2500	580	2860	2670	2750	56-56	64×6	1900	2195	565	2325	695	2575	980	1500	240
2600	580	2960	2780	2850	60-56	66×6	2000	2325	565	2455	695	2575	980	1550	240
2800	600	3180	3000	3070	64-56	70×6	2100	2425	565	2555	695	2705	980	1650	240
3000	600	3405	3210	3290	68-62	75×6	2150	2475	565	2605	695	2805	980	1750	240

버터플라이밸브 치수표(수직형)

Dimensions of Butterfly Valves (Vertical Type)

● Φ 200 ~ Φ 1500



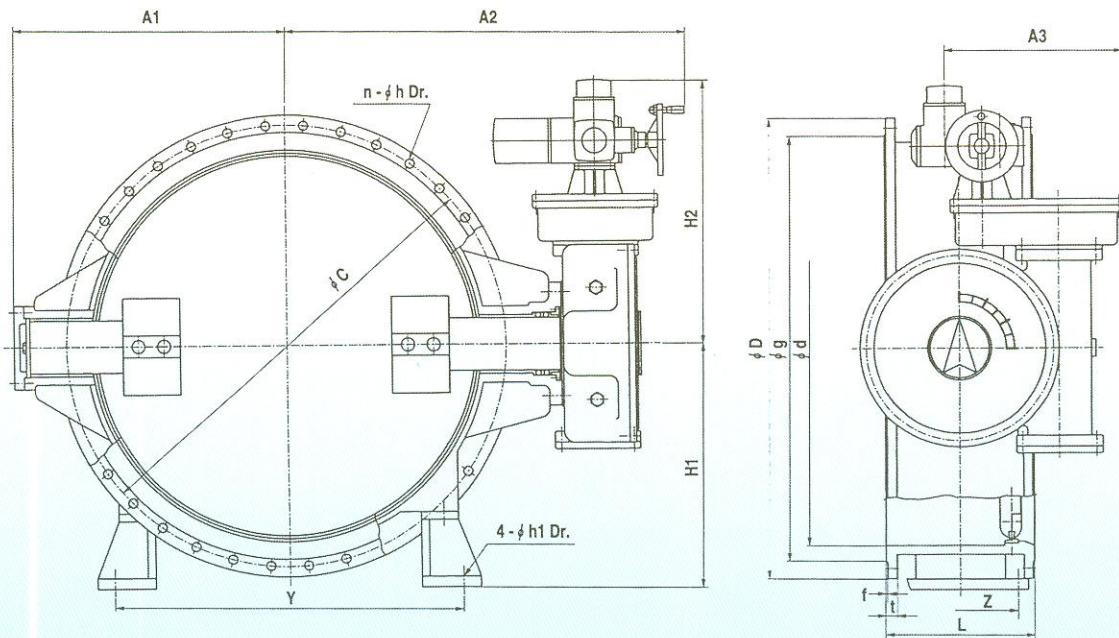
단위 : mm

ND	L	Flange					A ₁	A ₂	A ₃	A ₄	A ₅	A ₆	H ₁	H ₂	H ₃	H ₄	Turns of Opening
		D	G	Bolt Hole		T × f											
				C	n-φh												
200	152	340	264	295	8-23	27 × 3	155	210	280	80	90	130	-	360	270	620	10
250	165	395	319	350	12-23	29 × 3	215	270	340	105	125	155	-	420	310	680	10
300	178	445	367	400	12-23	31 × 4	215	270	340	105	125	155	-	440	345	700	10
350	190	505	427	460	16-23	32 × 4	215	270	340	105	125	155	-	470	370	730	10
400	216	565	477	515	16-28	34 × 4	250	305	450	150	170	200	-	525	410	785	12
450	222	615	527	565	20-28	35 × 4	250	305	450	150	170	200	-	555	440	815	12
500	229	670	582	620	20-28	36 × 4	250	305	450	150	170	200	-	595	475	855	12
600	267	780	682	725	20-31	40 × 4	375	480	575	227	230	327	450	670	535	957	48
700	292	895	797	840	24-31	46 × 4	375	480	575	227	230	327	500	755	610	1042	48
800	318	1015	904	950	24-34	49 × 5	375	480	575	227	230	327	550	815	670	1102	48
900	330	1115	1004	1050	28-34	51 × 5	104	285	565	365	320	435	600	911	820	1291	80
1000	410	1230	1111	1160	28-37	55 × 5	104	285	565	365	320	435	650	971	900	1351	80
1100	450	1366	1200	1270	32-37	61 × 5	104	285	565	365	320	435	700	1136	970	1516	80
1200	470	1470	1304	1387	32-37	63 × 5	135	305	705	400	346	490	750	1150	1050	1600	160
1350	530	1642	1462	1552	36-38	68 × 6	135	305	705	400	346	490	825	1255	1170	1705	160
1500	530	1800	1620	1710	36-38	74 × 6	135	305	705	400	346	490	900	1355	1270	1805	160

전동식 버터플라이밸브 치수표 (수평형)

Dimensions of Electro Drive Butterfly Valves

● Φ 200~ Φ 1200



단위 : mm

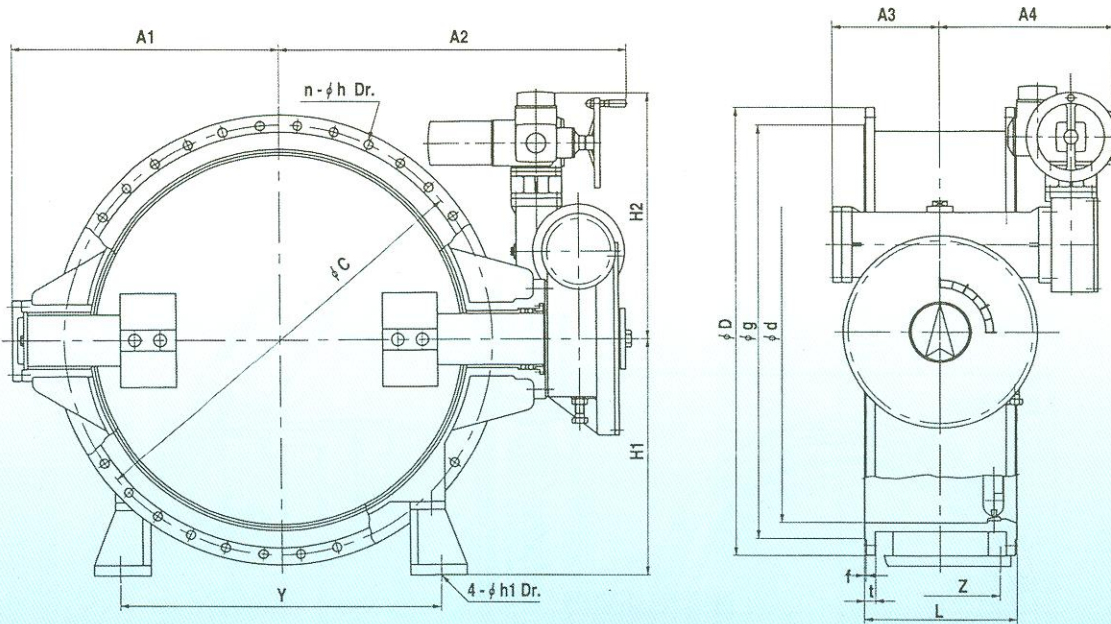
Bore (d)	Face to Face	Flange					Height		A1	A2	A3	Foot			Model of Actuator	
	L	Φ D	Φ G	Φ C	T×F	n- Φ h	H ₁	H ₂				Y	Z	Φ h1		
200	152	340	264	295	27×3	8-23	590	-	320	705	120	설계에 의한 선정	설계에 의한 선정			
250	165	395	319	350	29×3	12-23	650	-	350	765	170					
300	178	445	367	400	31×4	12-23	650	-	400	785	170					
350	190	505	427	460	32×4	16-23	650	-	440	815	170					
400	216	565	477	515	34×4	16-28	705	-	480	870	225					
450	222	615	527	565	35×4	20-28	735	-	520	905	225					
500	229	670	582	620	36×4	20-28	735	-	550	945	225					
600	267	780	682	725	40×4	20-31	915	450	620	1020	367					
700	292	895	797	840	46×4	24-31	500	915	700	1105	367			700	200	23
800	318	1015	904	950	49×5	24-34	550	915	760	1165	367			800	230	23
900	330	1115	1004	1050	51×5	28-34	600	1040	820	1365	450			900	240	27
1000	410	1230	1111	1160	55×5	28-37	650	1040	900	1425	450			1000	250	27
1100	450	1366	1200	1270	61×5	32-37	700	1120	970	1640	450	1100	260	27		
1200	470	1470	1304	1387	63×5	32-37	750	1170	1050	1685	500	1200	270	27		

● 500A 이하는 SPUR GEAR & FOOT 가없음.

전동식 버터플라이밸브 치수표 (수평형)

Dimensions of Electro Drive Butterfly Valves

● $\varnothing 1350 \sim \varnothing 3000$



단위 : mm

Bore (d)	Face to Face	Flange					Height		A1	A2	A3	Foot			Model of Actuator
	L	$\varnothing D$	$\varnothing G$	$\varnothing C$	T×F	n- $\varnothing h$	H1	H2				Y	Z	$\varnothing h1$	
1350	530	1642	1462	1552	68×6	36-38	825	1170	1170	1790	350	865	1350	33	설계에 의한 선정
1500	530	1800	1620	1710	74×6	36-38	900	1170	1270	1890	350	865	1500	33	
1650	530	1950	1770	1860	50×6	40-48	1050	1250	1350	1940	350	865	1650	33	
1800	550	2115	1960	2020	50×6	44-48	1075	1410	1450	2185	480	1030	1800	33	
2000	550	2325	2170	2230	54×6	48-48	1175	1410	1550	2285	480	1030	2000	33	
2200	550	2550	2370	2440	58×6	52-56	1350	1600	1680	2575	480	1225	2200	39	
2400	580	2760	2570	2650	62×6	56-56	1450	1600	1840	2675	480	1225	2400	39	
2500	580	2860	2670	2750	64×6	56-56	1500	1600	1900	2725	480	1225	2500	39	
2600	580	2960	2780	2850	66×6	60-56	1550	1600	2000	2855	480	1225	2600	39	
2800	600	3180	3000	3070	70×6	64-56	1650	1600	2100	2955	480	1225	2800	39	
3000	600	3405	3210	3290	75×6	68-62	2400	1600	2150	3005	480	1225	3000	39	

- 주 기:**
1. 플랜지는 KS B 2333규격이며, 요구에 따라 다른 규격도 적용할 수 있습니다.
 2. 밸브의 면간거리는 KS B 2333규격이며, 요구에 따라 다른 규격도 적용할 수 있습니다.
 3. 조작기는 요구에 따라 다른 규격도 적용할 수 있습니다.(AUMA, ROTORK, BERNARD, MORGAN)

- Note:**
1. Flange rating is KS B 2333 standard, but other standards are available on request.
 2. Lay-length of valve is the dimensions of KS B 2333 standard, but other standards are available on request.
 3. Actuator but other standards are available on request.(AUMA, ROTORK, BERNARD, MORGAN)

공기압식 버터플라이밸브

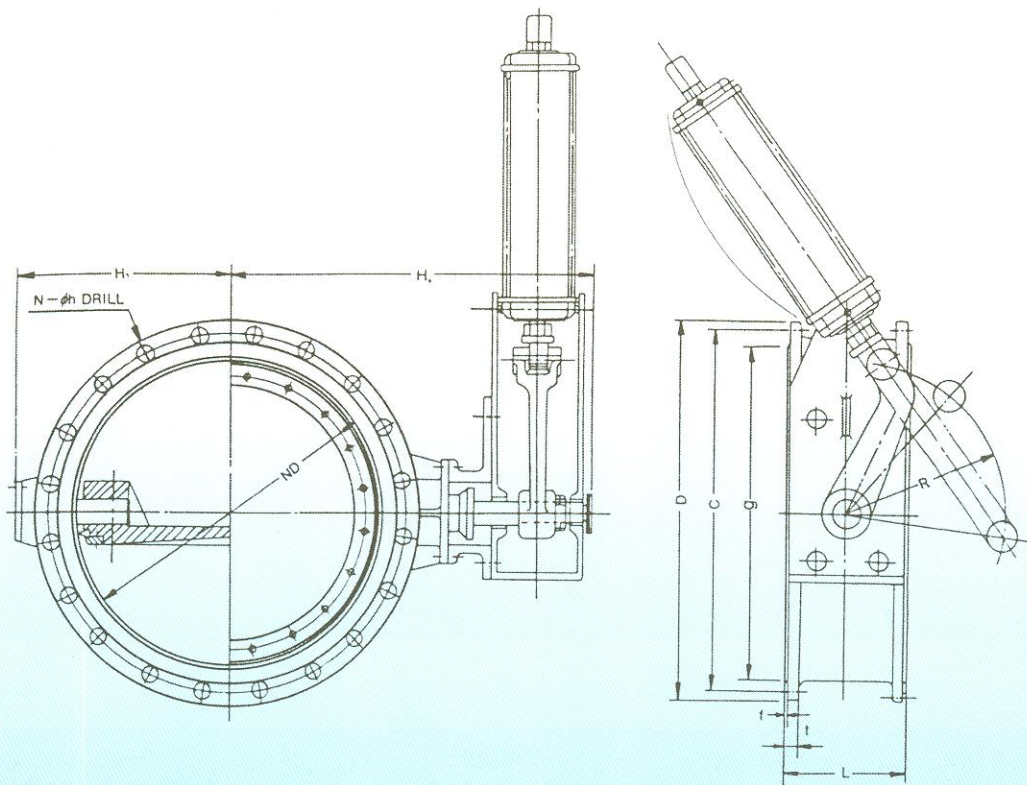
Pneumatic Operated Butterfly Valves

실린더식 버터플라이밸브

실린더조작은 유압과 공기압을 이용할 수 있으며, 수요자의 요구에 따라, 실린더 조작기에는 상하 리미트 스위치와 원격조작을 위한 개도 발신기(가변저항) 등의 추가 부품을 공급할 수 있습니다.

Cylinder Drive Butterfly Valves

Cylinder drives are available for hydraulic and pneumatic operation. On request, the drives can be supplied with additional equipments, such as limit switches and potentiometers for remote control.



Dimension

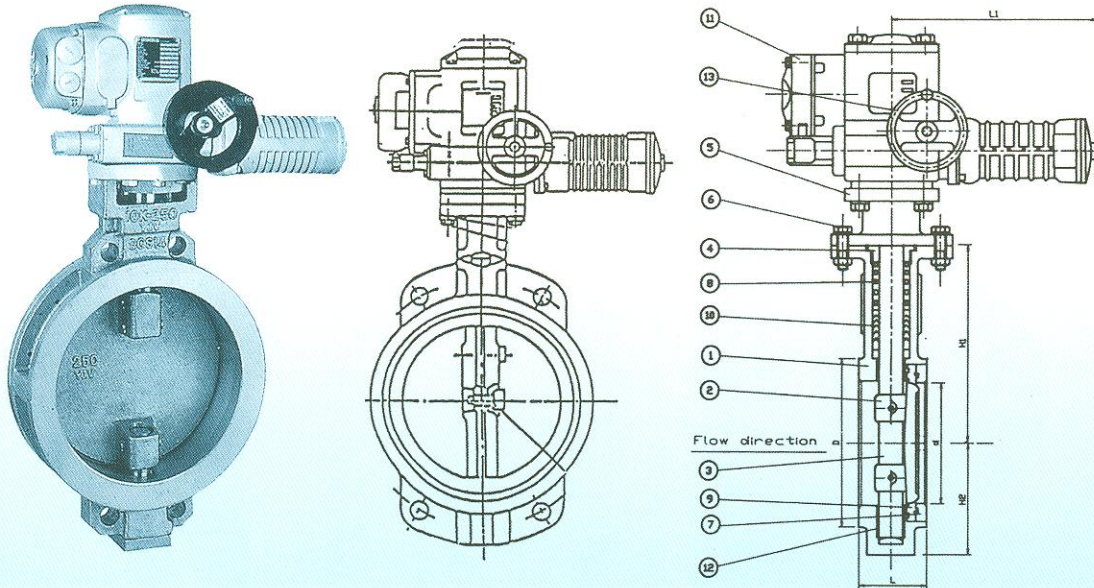
단위 : mm

ND	L		Flange					H ₃	H ₄	R	Remarks
	짧은형	긴형	D	C	G	T×F	n-φh				
200	152	300	340	295	264	27×3	8-23	446	167	125	
250	165	380	395	350	319	29×3	12-23	484	202	125	
300	178	400	445	400	367	31×4	12-23	537	237	185	
350	190	430	505	460	427	32×4	16-23	567	267	185	
400	216	470	565	515	477	34×4	16-28	587	310	185	
450	222	500	615	565	527	35×4	20-28	637	345	185	
500	229	530	670	620	582	36×4	20-28	726	380	280	
600	267	560	780	725	682	40×4	20-31	796	445	280	
600	267	560	780	725	682	40×4	20-31	796	445	280	
700	292	610	895	840	797	46×4	24-31	921	515	340	

- 후렌지규격: 1.KS B 2333
2.주문자 요구에 따라 변경가능합니다.

웨이퍼형 버터플라이밸브 Wafer Type Electric Butterfly Valves

Class 10K/20K & Class 150/Electric Operated



Dimensions (10K/20K150P-Electric)

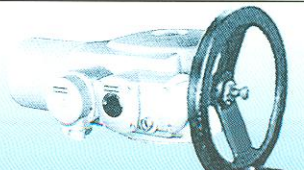
단위 : mm

Size		d	D	L	L ₁	L ₂	L ₃	H	H ₁	H ₂	Flange Bolt Circle		
mm	inch										10K	20K	150P
50	2	50	95	48	70	190	66	260	120	64	120	120	120.5
65	2½	65	116	50	100	193	100	265	127	75	140	140	139.5
80	3	80	126	51	100	193	100	318	148	83	150	160	152.5
100	4	100	152	55	100	260	100	318	148	93	175	185	190.5
125	5	124	184	59	100	260	100	340	170	115	210	225	216
150	6	150	211	65	150	275	145	415	193	140	240	260	241.5
200	8	194	260	76	150	275	145	440	220	168	290	305	298.5
250	10	250	325	83	150	360	145	485	265	208	355	380	362
300	12	296	370	89	230	440	220	610	308	242	400	430	432
350	14	336	415	98	230	440	220	660	359	272	445	480	476.2

Technical date of multi-turn actuator SA 07.1-SA 48.1

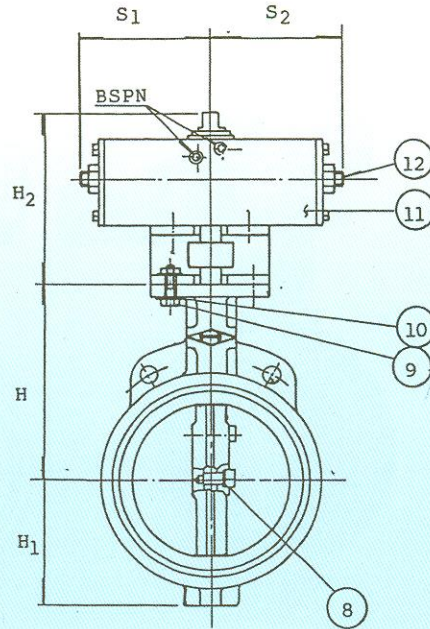
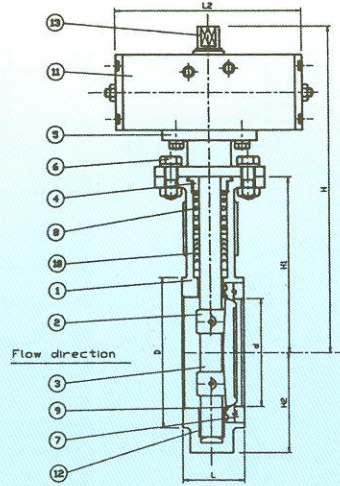
	Type/Size	SA 07.1	SA 07.5	SA 10.1	SA 14.1	SA 14.5	SA 16.1
	Tripping Torque max. Lbs.Ft.	20	45	88	185	370	740
	Speed Rpm ¹⁾ from-to	4,8-216	4,8-216	4,8-216	4,8-216	4,8-216	4,8-216

Technical date of multi-turn actuator SA 25.1-SA 48.1

	Type/Size	SA 25.1	SA 30.1	SA 35.1	SA 40.1	SA 48.1
	Tripping Torque max. Lbs.Ft.	1500	2960	5900	11800	23600
	Speed Rpm ¹⁾ from-to	4,8-108	4,8-108	4,8-75	4,8-38	4,8-19

웨이퍼형 공기압식 버터플라이밸브 Wafer Type Pneumatic Butterfly Valves

Class 10K/20K & Class 150/Air Operated



Dimensions(10K/20K 150P-Pneumatic)

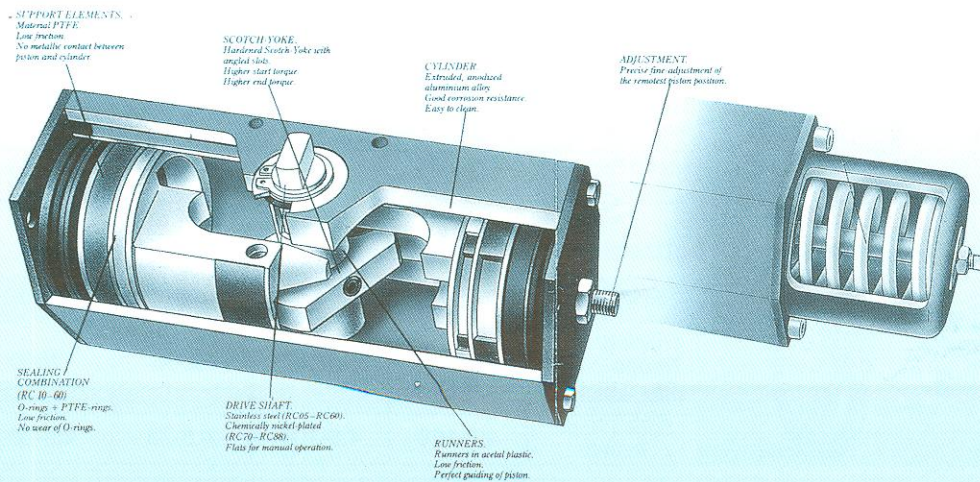
Unit mm

Size		d	D	L	L ₁	L ₂	L ₃	H	H ₁	H ₂	Flange Bolt Circle		
mm	inch										10K	20K	150P
50	2	50	95	48	70	190	66	260	120	64	120	120	120.5
65	2½	65	116	50	100	193	100	265	127	75	140	140	139.5
80	3	80	126	51	100	193	100	318	148	83	150	160	152.5
100	4	100	152	55	100	260	100	318	148	93	175	185	190.5
125	5	124	184	59	100	260	100	340	170	115	210	225	216
150	6	150	211	65	150	275	145	415	193	140	240	260	241.5
200	8	194	260	76	150	275	145	440	220	168	290	305	298.5
250	10	250	325	83	150	360	145	485	265	208	355	380	362
300	12	296	370	89	230	440	220	610	308	242	400	430	432
350	14	336	415	98	230	440	220	660	359	272	445	480	476.2
400	16	375	475	110	230	590	220	690	380	315	510	540	539.7

Air Actuator Special List

Unit mm

Valve Size	Actuator Type	Liter Free Air 0.55MP Air Consumption		Tonque Nm		
		Anti Clock	Clock Wise	0°	50°	390°
50	RC 20 SR	1.05	1.2	70	33	51
65	RC 30 SR	2.0	3.7	130	62	96
80	RC 30 SR	2.0	3.7	130	62	96
100	RC 40 SR	4.0	4.6	265	127	197
125	RC 40 SR	4.0	4.6	265	127	197
150	RC 50 SR	6.4	11.8	410	195	300
200	RC 50 SR	6.4	11.8	410	195	300
250	RC 60 SR	12.8	15	840	400	620
300	RC 70 SR	24	50	1700	820	1260
350	RC 70 SR	24	50	1700	820	1260
400	RC 80 SR	48	62	3500	1650	2600



내부확인투시창을 형성한 버터플라이밸브 Sight Glass Butterfly Valve

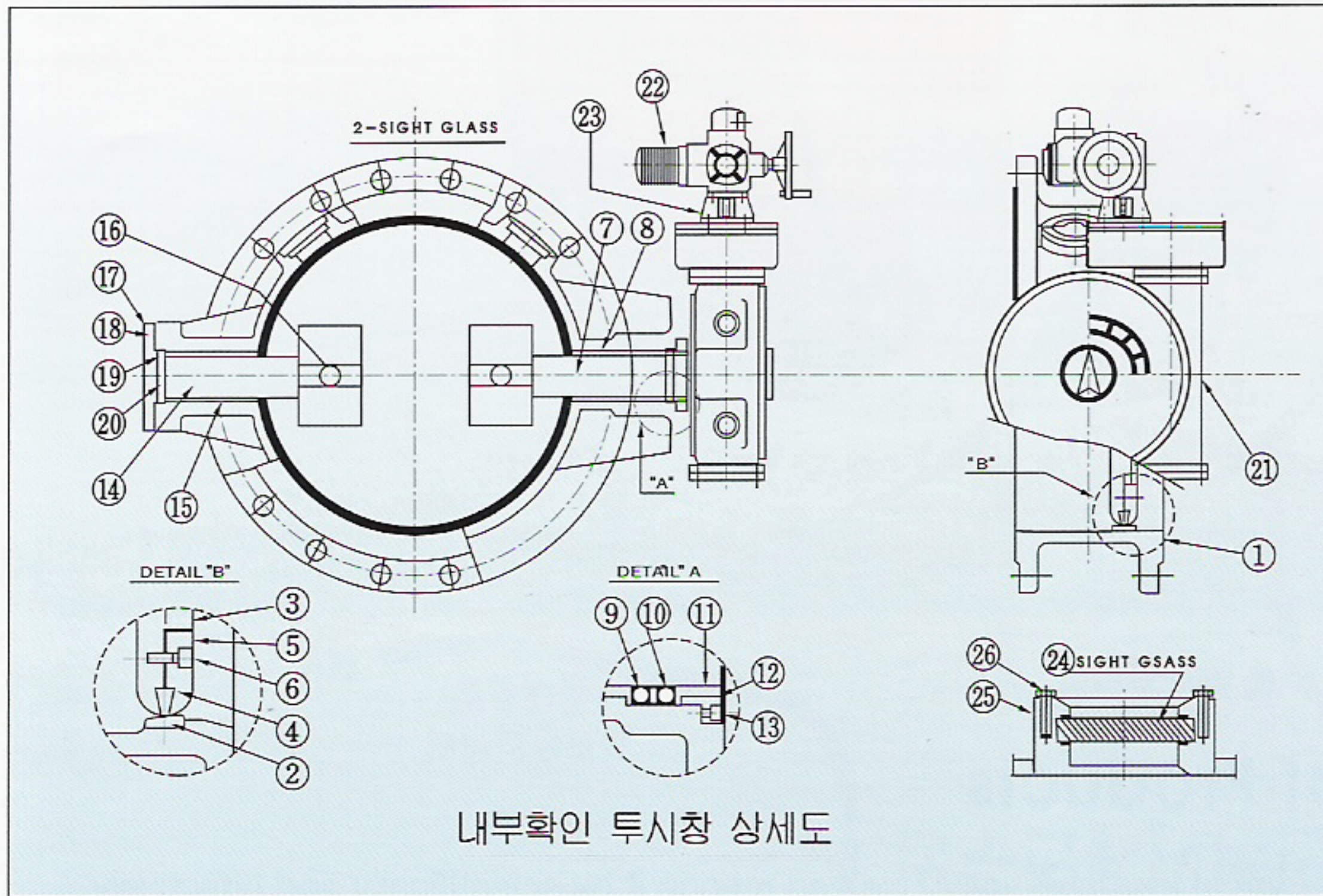
Reformed
maintenance of
valve and pipeline
in epochal -

SIGHT GLASS BUTTERFLY VALVE

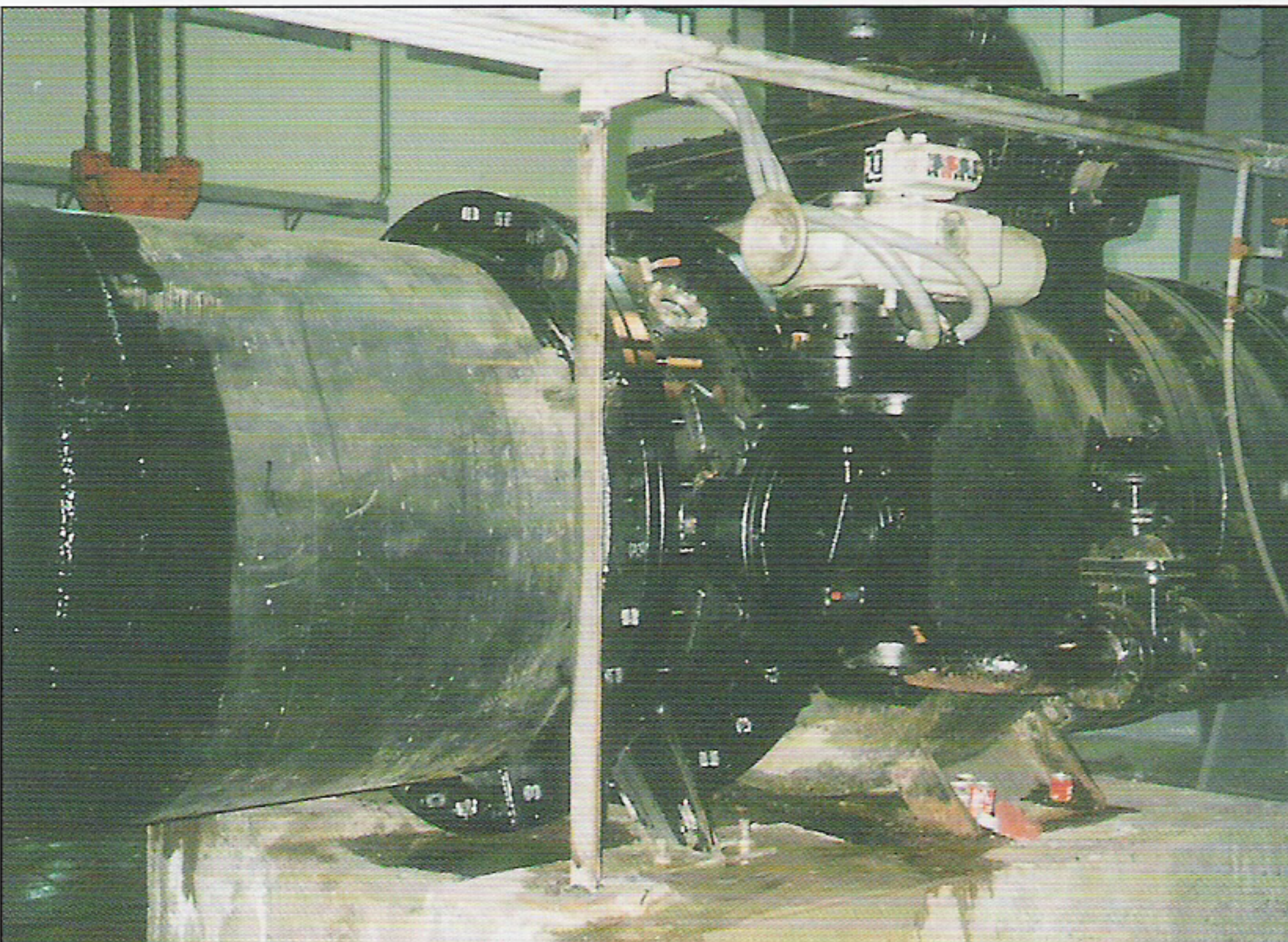
As looking at thoroughly through perspective window formed by 2 of strengthened glass inside of pipeline and valve, we can confirm the flow of water, position of disk, leakage condition of seat and abrasion condition and turbidity of fluid and in the time of accident in the pipeline, we can clearly understand. Therefore, it is butterfly valve attached perspective window to reform miraculously to the maintenance of the facility

(Applied Valve : butterfly valve, sluice valve, check valve, others)

제품내역도면

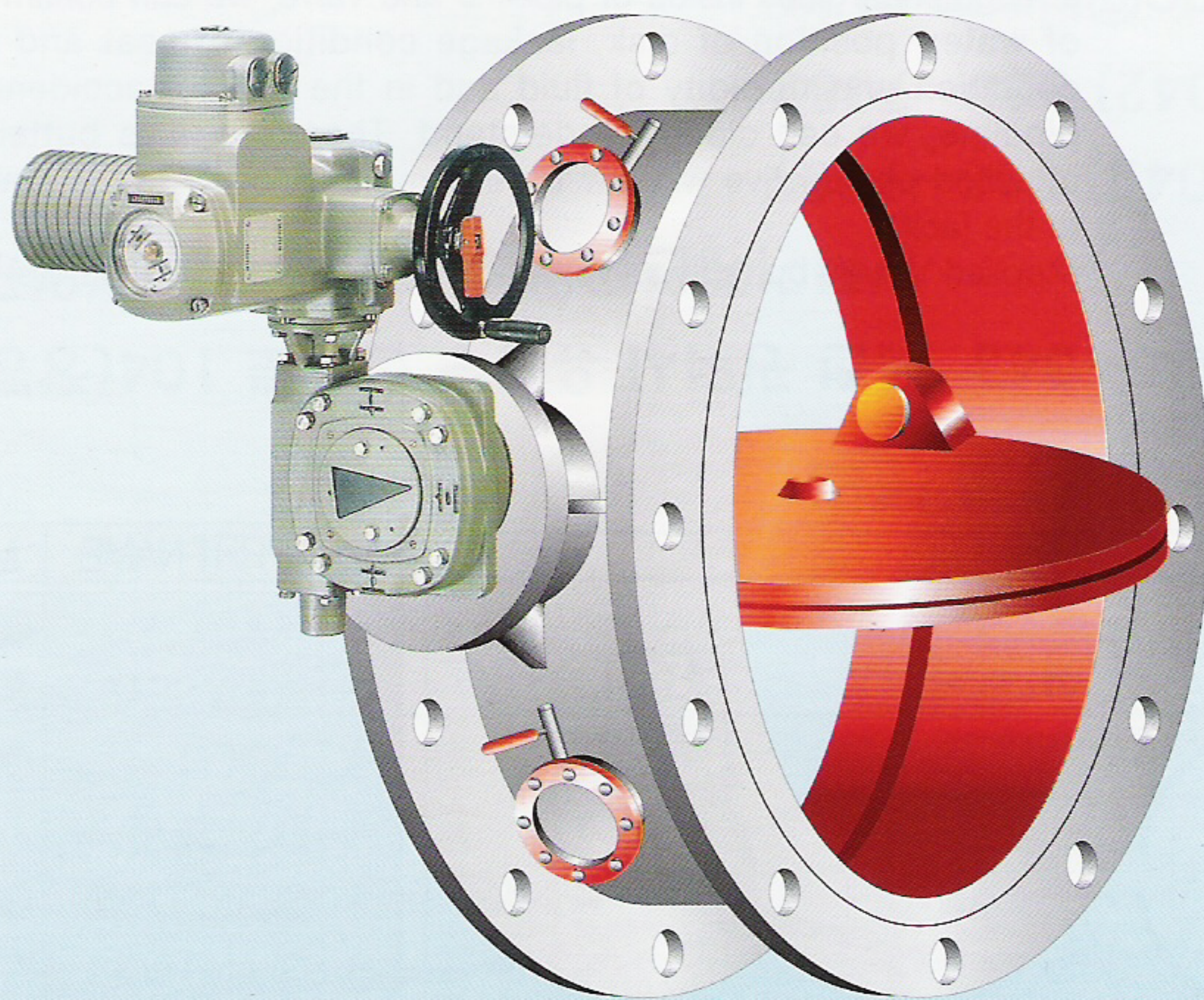


제품내역도면



No	PRRT NAME	MAT L	Q'ty
1	BODY	GCD450	1
2	BODY SEAT	STS304	1
3	DISK	GCD450	1
4	DISK SEAT	NBR	1
5	SEAT GLAND	GCD450	1
6	GLAND BOLT	STS304	20
7	MAIN SHAFT	STS304	1
8	MAIN BUSH	BC6	1
9	O-RING	NBR	2
10	COLLAR	BC6	1
11	GLAND BUSH	BC6	1
12	GLAND	SS400	1
13	GLAND BOLT	STS304	8
14	STUB BUSH	STS304	1
15	STUB BUSH	BC6	1
16	LOCK PIN	STS304	3
17	END COVER	SS400	1
18	COVER COLT	SS400	4
19	COLLAR	STS304	1
20	CONTROL Bolt	STS304	1
21	GEAR BOX	ASS' Y	1
22	BRACKET	SS400	1
23	ACTUATOR	ASS' Y	1
24	SLGHT GLASS	강화유리	2
25	COVER	STS304	2
26	BOLT	STS304	12

내부확인투시창을 형성한 버터플라이밸브 Sight Glass Butterfly Valve



Utility
Model
Register
No.075387

■ Feature of Products

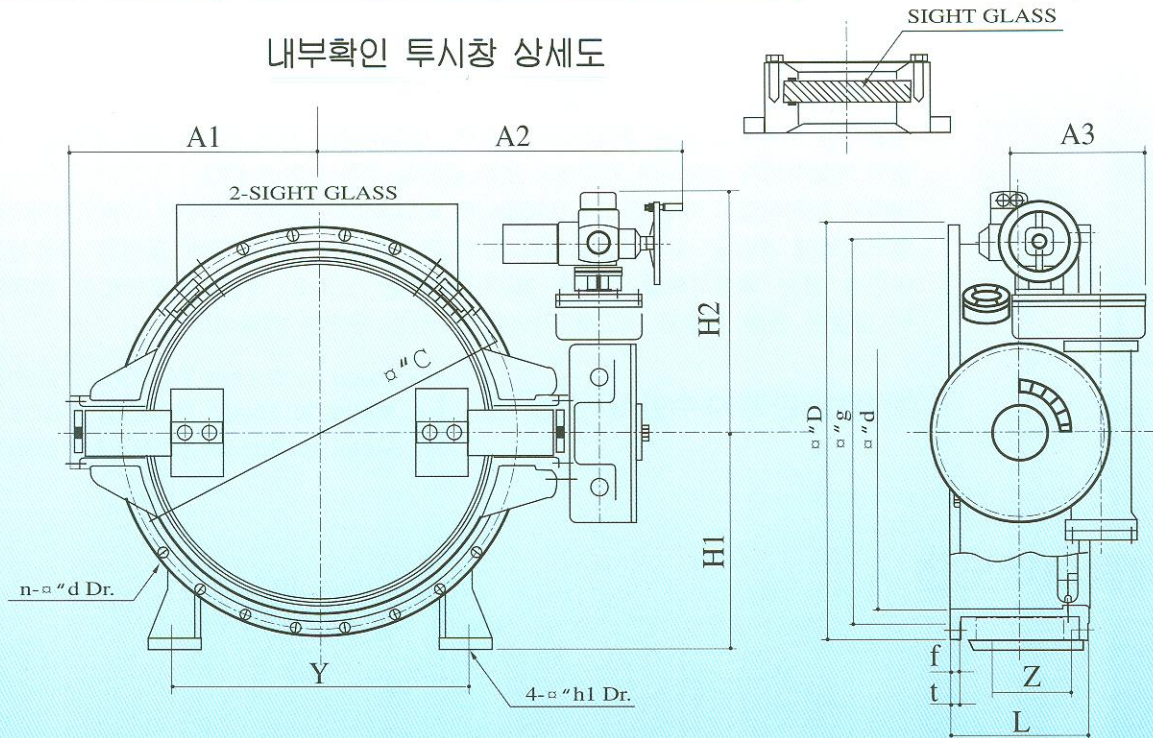
- Since we can clearly look at inside of valve, we can manage it by scientifically and effectively.
- Since we can grasp all spare parts inside of valve, we can clearly grasp life of valve and leakage condition, leaking quantity, factor for abrasion, exchange of rubber valve.
- In case of lots for operating times, in case that leakage will be occurred not to accord to valve body seat and position of disk caused by tooth abrasion of worm wheel, we can have re-setting after confirmation through perspective window and we can prevent water leakage and it will be used for long time.
- While the water cutting from metropolitan city water works & water cut-off of pipeline, since it is clearly confirmed for flow of water and discharge of air, it will be good for the pipeline maintenance.
- When the valve will be opened and closed, since we can know a moment if an alien substances is sticken or not through perspective window by unreasonable force to T-key, we can prevent damage of valve and life will go longer.
- We can grasp rust in pipeline, dusty of water by perspective window of valve
- We can understand sand and deposit in down part of pipe and valve through perspective window.
- When we could not understand due to obstacle of indication plate of valve, we can perfectly understand root and we could not give any obstacle to water sending quantity and transmit of water.

내부확인투시창을 형성한 버터플라이밸브

Dimensions of sight Glass Type Butterfly Valve

ø 200- ø 3000(GCD 450, SS400, SSC 13, GC 200)

내부확인 투시창 상세도



Unit:mm

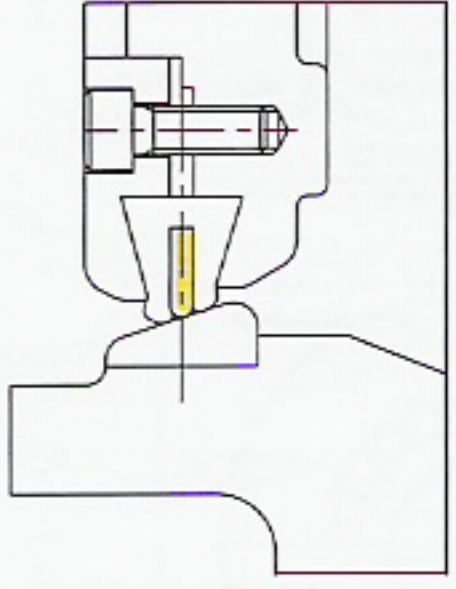
Bore (d)	Face to Face	Flange to Face					Height		A1	A2	A3	A4	Foot			Model of Actuator
	L	ø D	ø g	ø C	t × f	n-ø h	H1	H2					Y	Z	øh1	
200	152	340	264	295	27 × 3	8-23		590	320	705		120				
250	165	395	319	350	29 × 3	12-23		650	350	765		170				
300	178	445	367	400	31 × 4	12-23		650	400	786		170				
350	190	505	427	460	32 × 4	16-23		650	440	815		170				
400	216	565	477	515	34 × 4	16-28		705	480	870		225				
450	222	615	527	565	35 × 4	20-28		735	520	905		225				
500	229	670	582	620	36 × 4	20-28		735	550	945		225				
600	267	727	682	725	40 × 4	20-31		915	620	1020		367				
700	292	895	797	840	46 × 4	24-31	500	915	700	1105		367	700	200	23	
800	318	1015	904	950	49 × 5	24-34	550	915	760	1165		367	800	230	23	
900	330	1115	1004	1050	51 × 5	28-34	600	1040	820	1365		367	900	240	27	
1000	410	1230	1111	1160	55 × 5	28-37	650	1040	900	1425		450	1000	250	27	
1100	450	1366	1200	1270	61 × 5	32-37	700	1120	970	1640		450	1100	260	27	
1200	470	1470	1304	1380	63 × 5	32-37	750	1170	1050	1685		500	1200	270	27	
1350	530	1642	1462	1552	68 × 6	36-38	825	1170	1170	1790	350	965	1350	280	33	
1500	530	1800	1620	1710	74 × 6	36-38	900	1170	1270	1890	350	865	1500	300	33	
1650	530	1950	1770	1860	50 × 5	40-48	1050	1250	1350	1940	350	865	1650	320	33	
1800	550	2115	1960	2020	50 × 5	44-48	1075	1410	1450	2185	480	1030	1800	350	33	
2000	550	2325	2170	2230	54 × 6	48-48	1175	1410	1550	2285	480	1030	2000	400	33	

설계에 의한 선정

소프트 메탈시트 버터플라이밸브

Soft Metal Seat Butterfly Valve

Reformed
Stop of
Leakage
Epochally



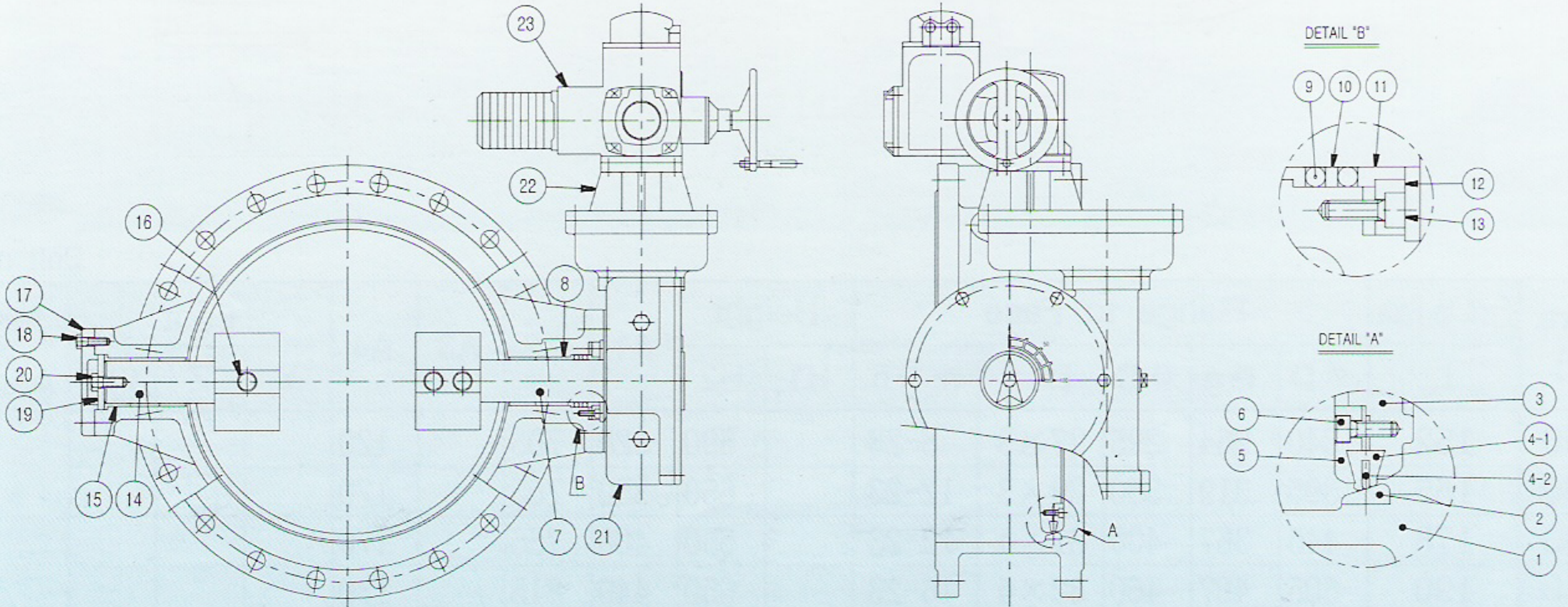
Since the existed butterfly valve for waterworks is light than sluice valve, compact and easy for opening & closing and in case it is the electric power, the power motor is a few and installation is easy, it is widely used, and it is excellent for exponential ability because rubber will be used to valve body or one side of seat surface of disk. However, according to the using condition, it will have damage to the rubber seat and when it will be used for long period, the exponential ability will be remarkably dropped that is main role of valve by the old of rubber or hardening phenomenon, and in case of metal seat to be sold after development in recent, the exponential ability also will be dropped and come to factor of leakage since metal seat will have damage in case of sticking sand or other alien substances between seats.

Accordingly, the soft metal seat butterfly valve developed by YIHWAN Industrial Company is the soft metal seat valve that the triple exponential method united metal seat without abnormality in the time of the long time use by the excellent life of rubber seat, in order not to give damage to the metal seat in the severe using conditions and it is the excellent products to contribute to decrease maintenance costs.

■ Valve 3 Stage Exponential Method : Triple Seat

- Metal to Rubber (STS304 / NBR)
- **Metal to Metal (STS304 / BC6)**
- Metal to Rubber (STS304 / NBR)

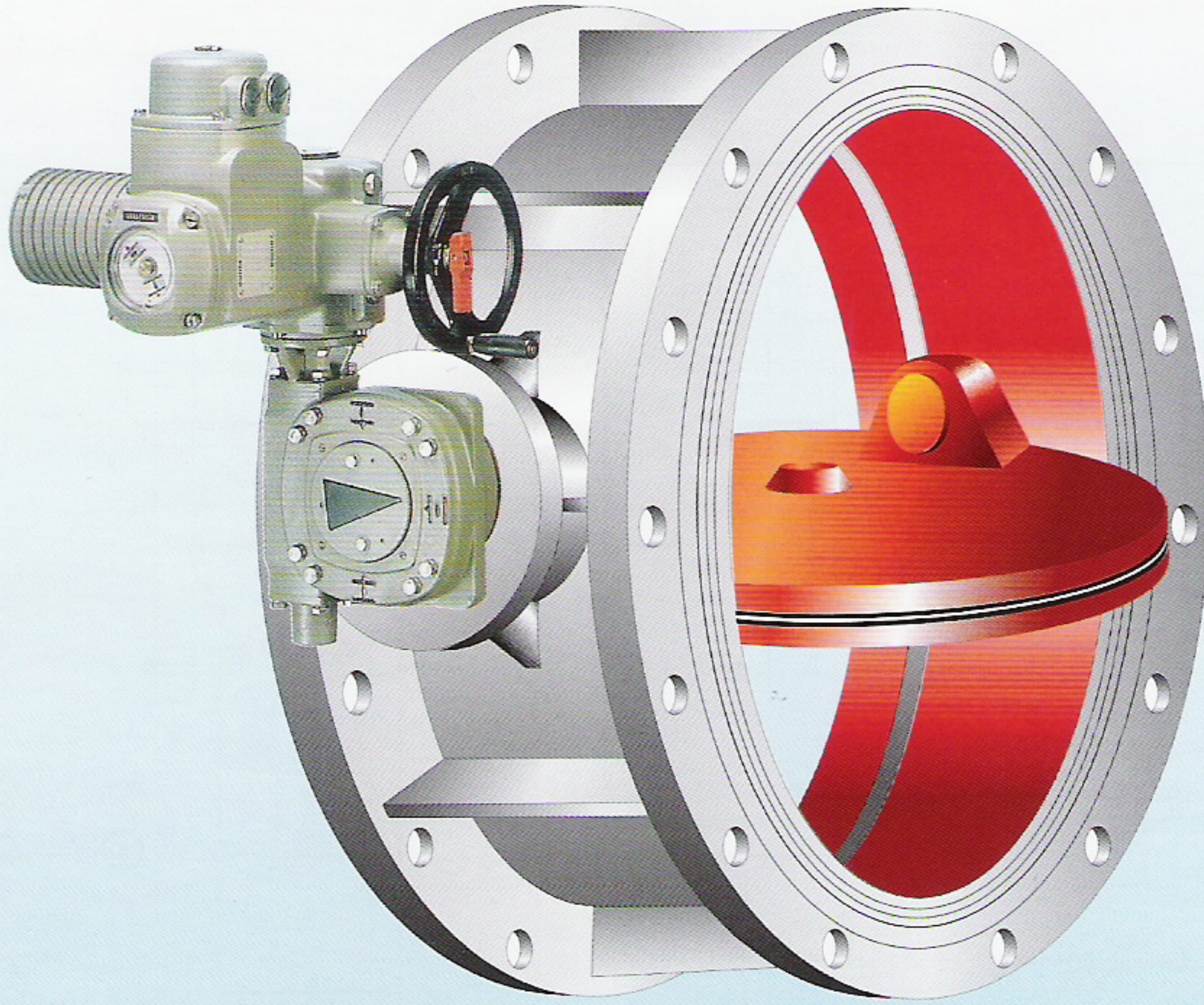
제품내역도면



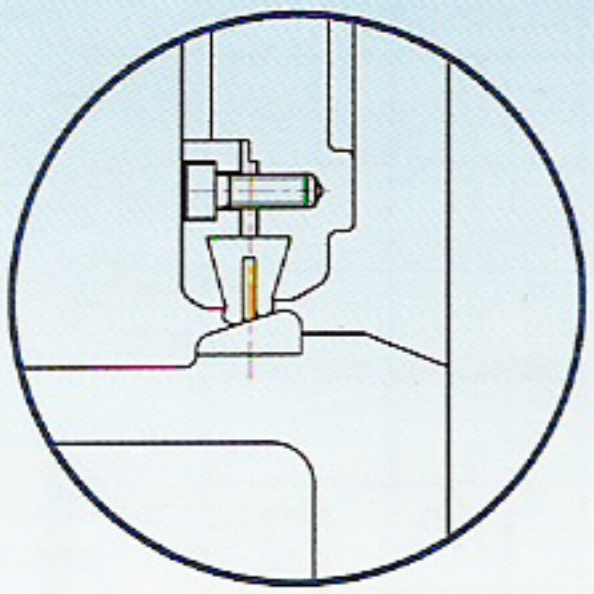
No	PART NAME	MAT' L	Q'ty	No	PART NAME	MAT' L	Q'ty	No	PART NAME	MAT' L	Q'ty
1	BODY	GCD450	1	8	MAIN BUSH	BC6	1	16	LOCK PIN	STS304	3
2	BODY SEAT	BC6	1	9	O-RING	NBR	2	17	END COVER	SS400	1
3	DISK	GCD450	1	10	COLLAR	BC6	1	18	COVER BOLT	SS400	4
4-1	DISK SEAT	NBR	1	11	GLAND BUSH	BC6	1	19	COLLAR	STS304	1
4-2	DISK SEAT	STS304	1	12	GLAND	SS400	1	20	CONTROLBOLT	STS304	1
5	SEAT GLAND	GCD450	1	13	GLAND BOLT	STS304	8	21	GEAR REDUCER	ASS' Y	1
6	GLAND BOLT	STS304	20	14	STUB SHAFT	STS304	1	22	BRACKET	SS400	1
7	MAIN SHAFT	STS304	1	15	STUB BUSH	BC6	1	23	ACTUATOR	ASS' Y	1

소프트 메탈시트 버터플라이밸브

Soft Metal Seat Butterfly Valve



Utility
Model
No.0230331



■ Feature of Products (3 Stage of Exponential Method)

- As a Disk Seat Structure Triple Sealing Valve
As it is METAL TO NBR, METAL TO METAL, METAL TO NBR,
we can secure perfect watertight
- When anti-pressure will be occurred, it will be possible for watertight or decrease of pressure,
watertight or decrease of pressure in 2nd stage of metal seat, and perfectly maintains
anti pressure and air tightness in the triple rubber seat,
- Since shaft center is with eccentric structure, the seat abrasion and damage of seat from
friction between disk rubber seat or metal seat of valve body will be prevented in the time
of opening and closing
- In order to prevent to be damaged seat by incoming of sand and alien substances that is
demerit of the general metal seat, the soft metal seat has the type that will clean after pushing
the sand or alien substances by rubber seat and therefore, it will prevent damage of metal seat

■ 규격인증

한국산업규격 표시인증



KS B 2333

ISO 9002 품질인증시스템인증

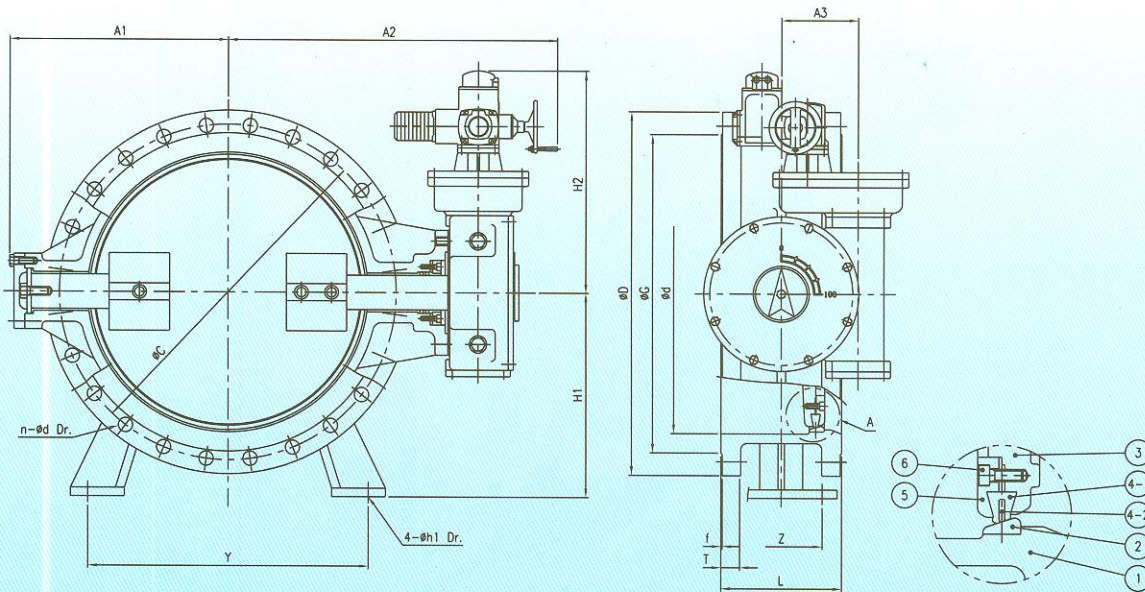


실용신안 제0230331호



소프트 메탈시트 버터플라이밸브 Soft Metal Seat Butterfly Valve

∅ 200 - ∅ 3000 (GCD 450, SS400, SSC 13, GC 200, STS 304, STS316)



Dimensions

Unit: mm

Bore (d)	Face to Face	Flange to Face					Height		A1	A2	A3	A4	Foot			Model of Actuator
	L	∅ D	∅ g	∅ C	t × f	n - ∅ h	H1	H2					Y	Z	∅h1	
200	152	340	264	295	27 × 3	8-3	590	320	705		120					
250	165	395	319	350	29 × 3	12-23	650	350	765		170					
300	178	445	367	400	31 × 4	12-23	650	400	786		170					
350	190	505	427	460	32 × 4	16-23	650	440	815		170					
400	216	565	477	515	34 × 4	16-28	705	480	870		225					
450	222	615	527	565	35 × 4	20-28	735	520	905		225					
500	229	670	582	620	36 × 4	20-28	735	550	945		225					
600	267	767	682	725	40 × 4	20-31	450	915	1020		367	600	180	23	설 계 에 의 한 선 정	
700	292	895	797	840	46 × 4	24-31	500	915	1105		367	700	200	23		
800	318	1015	904	950	49 × 5	24-34	550	915	1165		367	800	230	23		
900	330	1115	1004	1050	51 × 5	28-34	600	1040	1365		367	900	240	27		
1000	410	1230	1111	1160	55 × 5	28-37	650	1040	1425		450	1000	250	27		
1100	450	1366	1200	1270	61 × 5	32-37	700	1120	1640		450	1100	260	27		
1200	470	1470	1304	1380	63 × 5	32-37	750	1170	1685		500	1200	270	27		
1350	530	1642	1462	1552	68 × 6	36-38	825	1170	1790	350	965	1350	280	33		
1500	530	1800	1620	1710	74 × 6	36-38	900	1170	1890	350	865	1500	300	33		
1650	530	1950	1770	1860	50 × 5	40-48	1050	1250	1350	1940	350	865	1650	320		33
1800	550	2115	1960	2020	50 × 5	44-48	1075	1410	1450	2185	480	1030	1800	350		33
2000	550	2325	2170	2230	54 × 6	48-48	1175	1410	1550	2285	480	1030	2000	400		33

역 지 밸브

Check valves for Waterworks

역지밸브 (완폐식역지밸브, 스윙직폐, 강판직폐)

일반 역지밸브는 역류에 의해서 작동되며, 바이패스밸브나 균형추를 같이 사용할 수 있으며, 수요자의 요구에 따라 역류에 의해서 급작스러운 닫힘(수격작용)을 방지하기 위한 충격완화장치가 설치된 역지밸브도 이용됩니다.

사 양

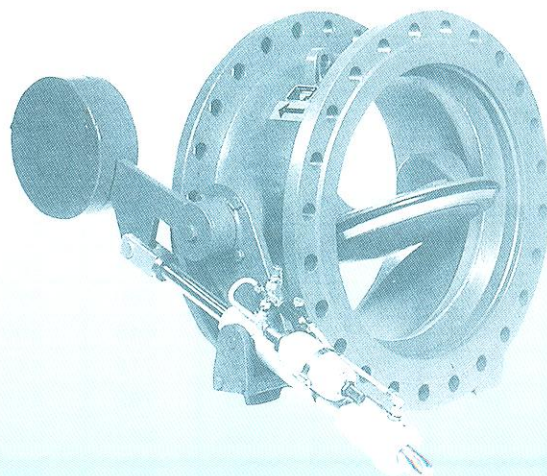
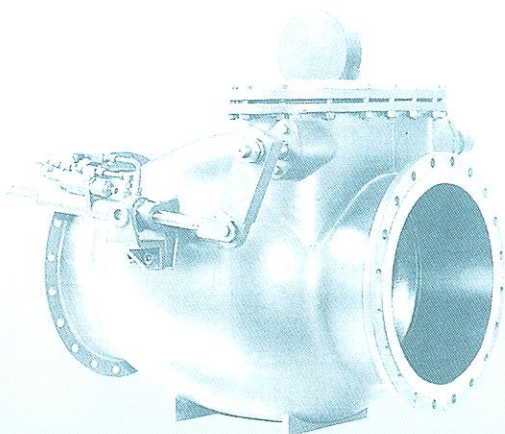
1. 규 격
80 ~ 1500mm
2. 사용압력
최고 7.5kgf/cm²
(수요자 요구에 따라 16~20kgf/cm² 이상도가능)
3. 밸브접합부
플랜지(KS D 3578 B , 4309)
수요자의 요구에 따라서 다른 규격도 적용할 수 있습니다.
4. 사용유체 : 상하수
5. 시험압력
시트누설시험 -----사용압력
몸통내압시험 -----사용압력의2배
6. 주요부품
몸 통 ---- 회주철품 (GC 200)
탄소강품 (SC 410)
덕타일주철품 (GCD 450)
일반구조용압연강재(SS400)
디 스크 ---- 덕타일주철품 (GCD450)
탄소강품 (SC 410)
축 ---- 스테레스강(STS 304, 403)
시트 ---- 청동주물 (BC 6)
스텐레스강 (STS 304)
수요자의 요구에 따라서 다른 재질도 적용할 수 있습니다.

Check Valves

A standard check valve actrated by counter flow.
The valve can be used by -pass valve or counter-weight.
On request, dash pots check valves being equipped with dash pots to preclude sudden closure in event of counter flow are available.

Specification(standard)

1. Size :
Swing check valve.....80mm~1,500mm
2. Working Pressure :
Max. 7.5 kgf/cm² (16kgf/cm²~20kgf/cm²)
3. Valve End :
Flange (KSD 3578,4309)
Other standards are available on request.
4. Fluid:
Service Water
5. Test Pressure :
Leakage test ---- Working Pressure
Shell test ----Twice of working Pressure
6. Main Material
Body:Cast Iron(GC 200)
Ductile Cast Iron (GCD 450)
Steel Casting (SC 410)
Disk :Cast Iron(GC 200)
Ductile Cast Iron (GCD 450)
Steel Casting (SC 410)
Stem:Stainless Steel (STS 304, 403)
Seat: Bronze Casting (BC 6)
Stainless Steel (STS 304)
The other materials are available on request.



논 슬램 버터플라이형 체크밸브

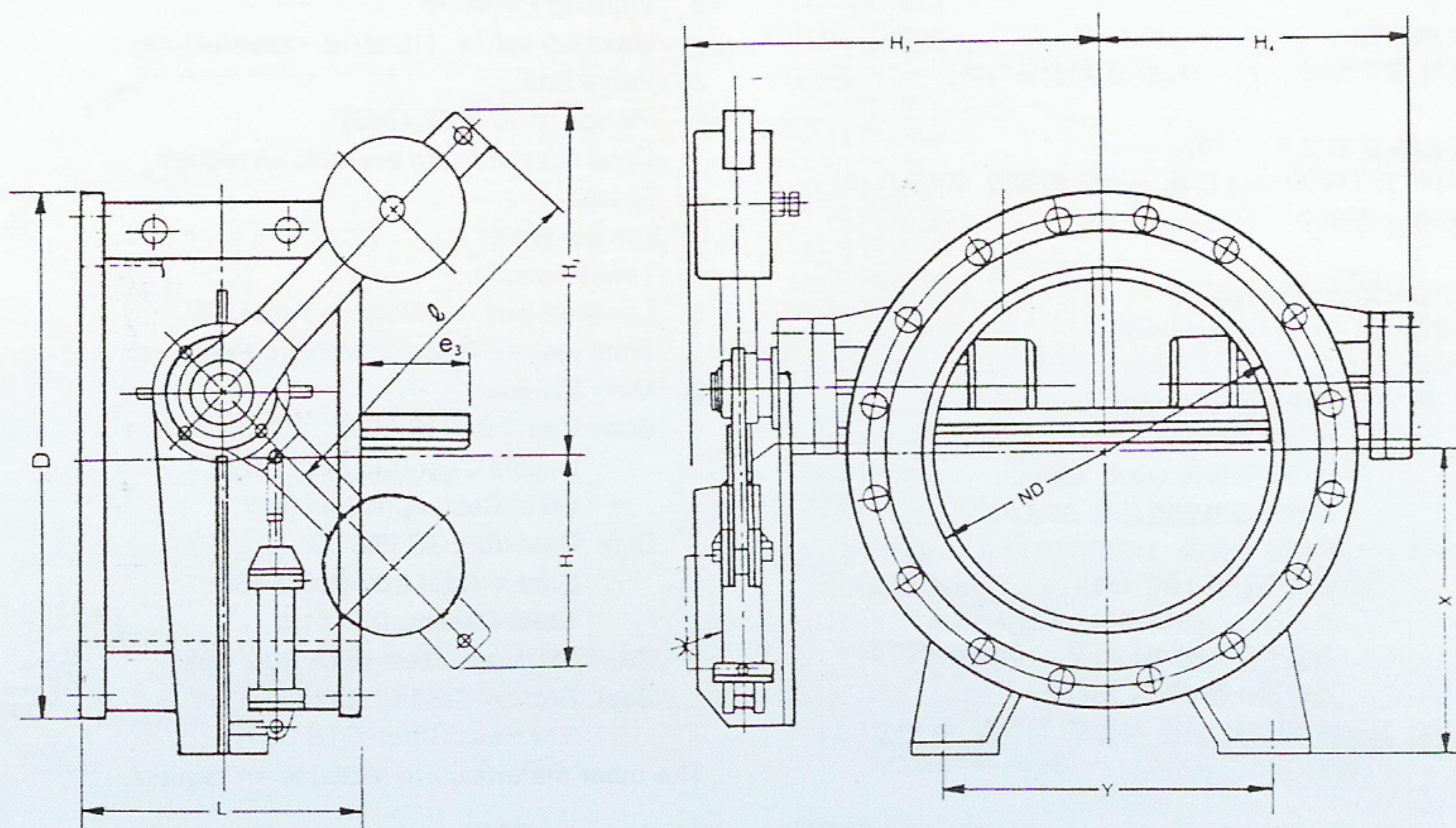
Non-Slam Butterfly Type Check Valves

Non-Slam Butterfly Type Check Valves

As it is an alternative use of check valve that is widely used in present, it is the product with sharp function added merit point of butterfly valve to check valve function.

Function and Feature

- 1) As it has the rapid shut-up for freely opening function and counter waiter of disk at the minimum water head to disk of double-eccentric structure, protection for valve, pump, pipeline closed according to 2nd stage by cushion of hydraulic pressure or air pressure could be perfectly settled.
- 2) If it will be compared to the same caliber size of check valve, since it will decrease about 4~7 times of installation area, it is clear that the cost decrease will give us as shortage of construction period.
- 3) Since weight of check valve will be installed with a max light weight by improvement of structure and shortage of distance, it is excellent for installation and transportation.
- 4) As attached the hydraulic pressure device, other than cushion cylinder of hydraulic or air pressure, it is excellent for mutual exchange to be added effectiveness of many functions, such as function of non return valve and urgent shut-up of hydraulic electric driving.



Dimensions

단위 : mm

ND	L	D	H3	H4	e3	I	H1	H2	X	Y
200	230	340	365	167	20	230	230	145	-	-
250	250	395	405	202	45	250	250	145	-	-
300	270	445	435	237	70	300	300	180	-	-
350	290	505	465	267	95	400	350	200	-	-
400	310	565	515	310	118	450	400	230	-	-
450	330	615	545	345	140	500	450	260	-	-
500	350	670	605	380	165	800	600	280	-	-
600	390	780	670	445	215	700	600	350	450	600
700	430	895	740	515	260	800	700	415	500	700
800	470	1015	805	580	315	900	815	475	550	800
900	510	1115	870	645	360	1000	900	520	600	900
1000	550	1230	1010	710	410	1050	1010	590	650	1000
1100	590	1366	1085	782	455	1050	1030	570	700	1100
1200	630	1470	1150	847	515	1050	1055	545	700	1100
1350	700	1642	1250	947	585	1050	1075	575	825	1350
1500	710	1800	1300	1045	660	1050	1120	480	900	1500

펌프 제어 밸브

Pump Control Valves

1. Pump Control Valves

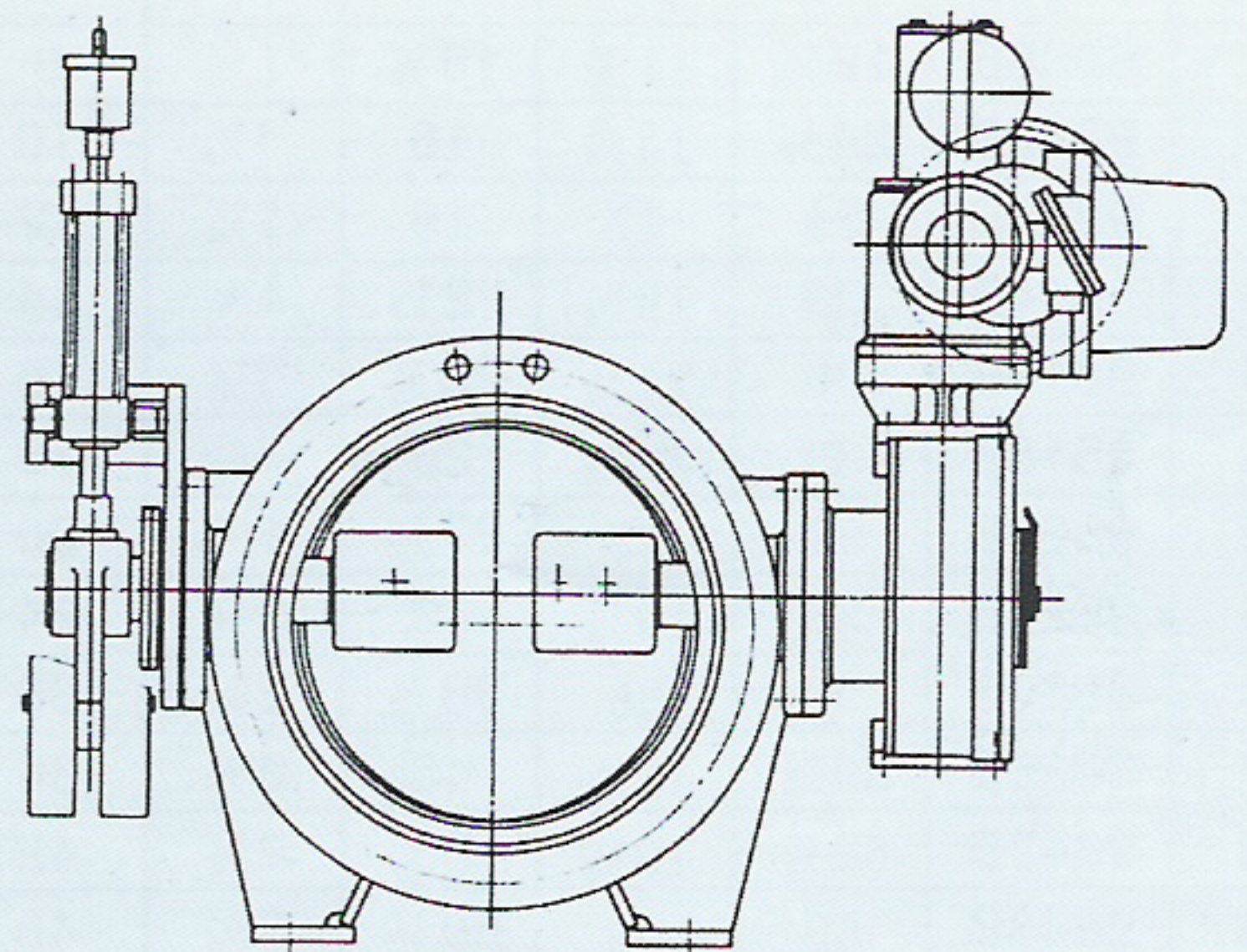
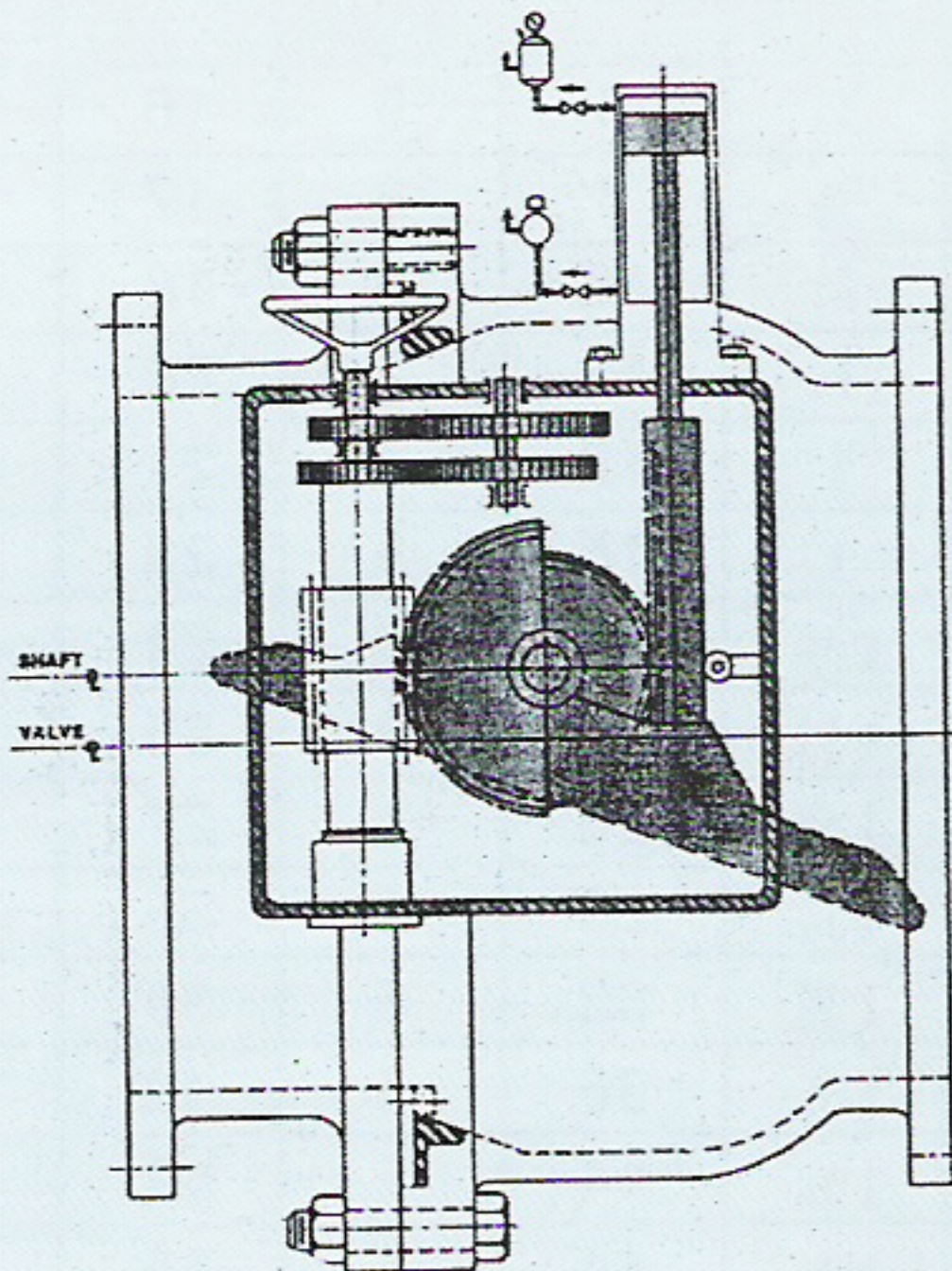
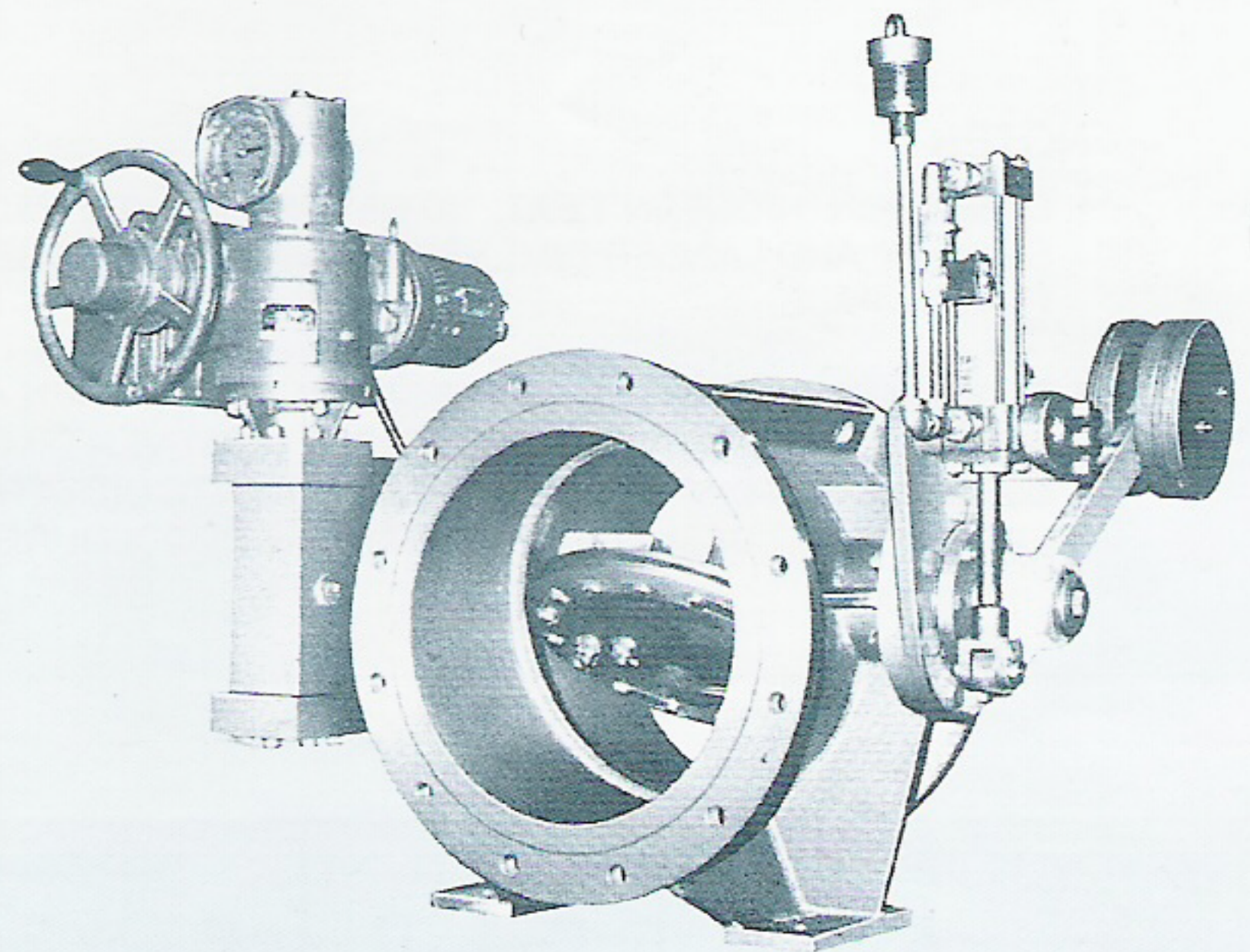
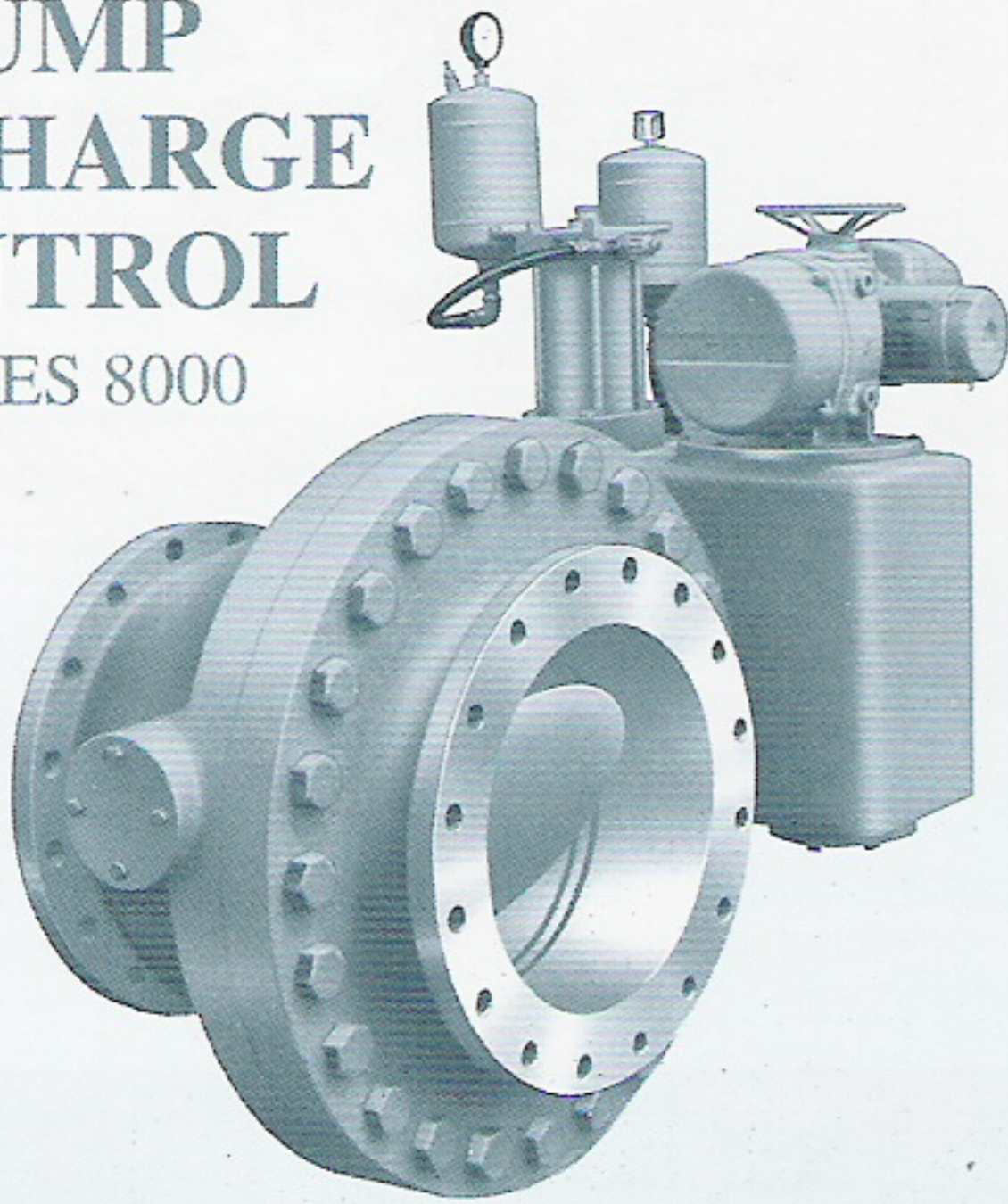
The Pump Control Valves is pump discharged valve and has the complex function for control of the water discharge, prevention of backward flow and water stop.

In particular, since it is installed as many function control facility to the water intake plant by auto operation, sand and discharged pumping station, booster pumping station and rain water pumping station, it will protect the pipeline and simple for using method and it has function to have operation and maintenance without the special training from operator at site of pumping station.

2. Purpose of Use

As it is the multi-function valve (control of water quantity (check & water stop), in the time of stop of the pump operation, it will remarkably decrease water tightness occurred to the pipeline and in particular, it has function to relax the water impact while electric power is failed.

PUMP DISCHARGE CONTROL SERIES 8000



3. Function of Pump Control Valves

- Function to Control Water Flow
- Perfect Water Stop Function
- Function for Check Valve
- Function for Drain Valve

4. Sorts of Pump Control Valve

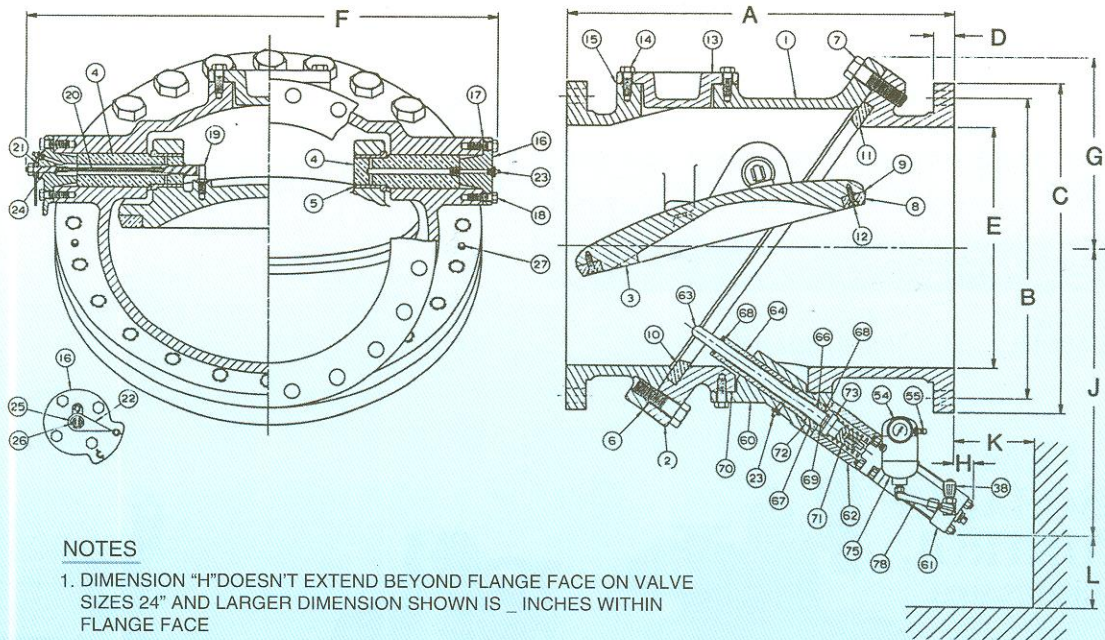
- Use for High Head of Fluid
- Use for Low Head of Fluid

5. Feature of Pump Control valves

- Decrease for Building Area (Decrease for Check Valve)
- Decrease for Facility Cost (No need for use of water control valve)
- Decrease for electric power (decrease for Head Loss)
- Auto operation of pumping station
- Reliance
- Relaxation of water impact
- CONE SEAL TKYPE (Life intension of Seal and perfect index)

틸팅체크밸브 Tilted Check Valves

● $\Phi 150 \sim \Phi 1350$



NOTES

1. DIMENSION "H" DOESN'T EXTEND BEYOND FLANGE FACE ON VALVE SIZES 24" AND LARGER DIMENSION SHOWN IS _ INCHES WITHIN FLANGE FACE
2. DIMENSIONS "K" AND "L" REPRESENTS THE MINIMUM CLEARANCE REQUIRED TO REMOVE DASHPOT UNIT HOWEVER DIMENSION "L" CAN BE REDUCED TO 1" IF SPACE REQUIREMENTS DICTATE CONSULT FACTORY FOR DASHPOT UNIT REMOVAL PROCEDURE

단위 : mm

VALVE SIZE	MODEL NO.	A	B	C	D	E	F	G	BOLT SIZE	NO. OF BOLTS	H	J	K	L
6	9806B	15	9 1/2	11	1	6	16	6 1/2	3/4	8	9	16	12	3
8	9808B	19 1/2	11 3/4	13 1/2	1 1/8	8	19	8	3/4	8	8	17	11	4
10	9810B	24 1/2	14 1/4	16	1 1/16	10	23	9	7/8	12	5	18	9	5
12	9812B	24	17	19	1 1/4	12	26	11	7/8	12	7	20	11	5
14	9814B	30	18 3/4	21	1 3/8	14	29	12	1	12	4	21	8	5
16	9816B	30	21 1/4	23 1/2	1 1/16	16	32	14	1	16	5	23	9	5
18	9818B	33	22 3/4	25	1 1/16	18	36	15	1 1/16	16	3	24	7	5
20	9820B	32	25	27 1/2	1 1/16	20	39	16	1 1/8	20	3	25	8	6
24	9824B	38	29 1/2	32	1 1/8	24	46	19	1 1/4	20	1	27	4	6
30	9830B	52	36	38 3/4	2 1/8	30	54	23	1 1/4	28	1	35	6	8
36	9836B	59 1/2	42 3/4	46	2 3/8	36	64	27	1 1/2	32	5	39	2	8
42	9842B	62 1/2	49 1/2	53	2 5/8	42	67	32	1 1/2	36	5	43	5	8
48	9848B	65	56	59 1/2	2 3/4	48	79	37	1 1/2	44	2	52	8	8
54	9854B	78	62 3/4	66 1/4	3	54	83	39	1 3/4	44	7	55	5	8

긴급차단밸브

Non-Return Valves

Outline of Non-Return Valves

This valve is consisted of the hydraulic cylinder, plumb for urgent shut-up and hydraulic generating device, and in case of the regular condition, it is used as if it is the general valve and in case of urgent condition, that is the time when the electric power is failed, and in case that valve shall be urgently cut due to all operating electric power, valve shall be cut urgently and in case that all hydraulic machine circuit is changing to circuit to be shut and it will be closed automatically by operation of plumb and lever. The closing speed will be controlled by the flow control valve set in the influent device and the managing cost will be the same as influence type of valve.

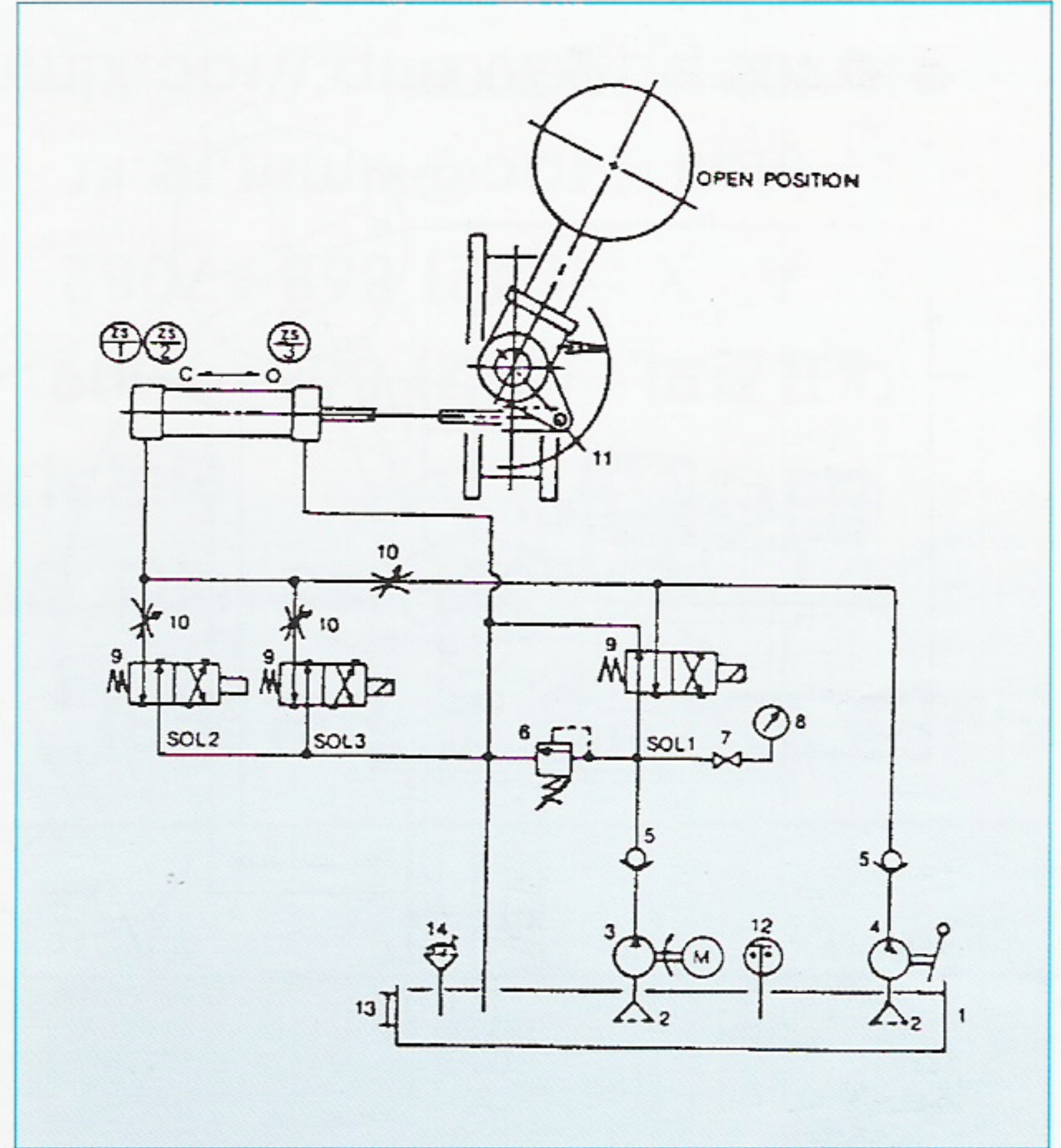
Features

1. To be used together the control valve and check valve in the previous time may be acted 2 kinds of roles with 1 unit of the urgent shut-up valve of the hydraulic butterfly valve.
2. In the time of urgency (electric fall), in case that the valve will be shut-up urgently, it will be shut up automatically without foreign force like as the general valve, and make stop-up the reverse flow and as it is closing slowly about 90% of disk is closing position, when water hammer valve is urgently shut-up, the reverse flow will be bumped to disk and could be shut-up the reverse flow effectively without giving unreasonableness to valve and other machineries by the urgent raise of shock and pressure.
3. It is structure to be possible the flow control caused by maintaining of intermediate way.
4. Since 2 units of valve will be alternated for 1 unit, the cost for facility will be decreased

Function

Non-return valve has equipped the following function

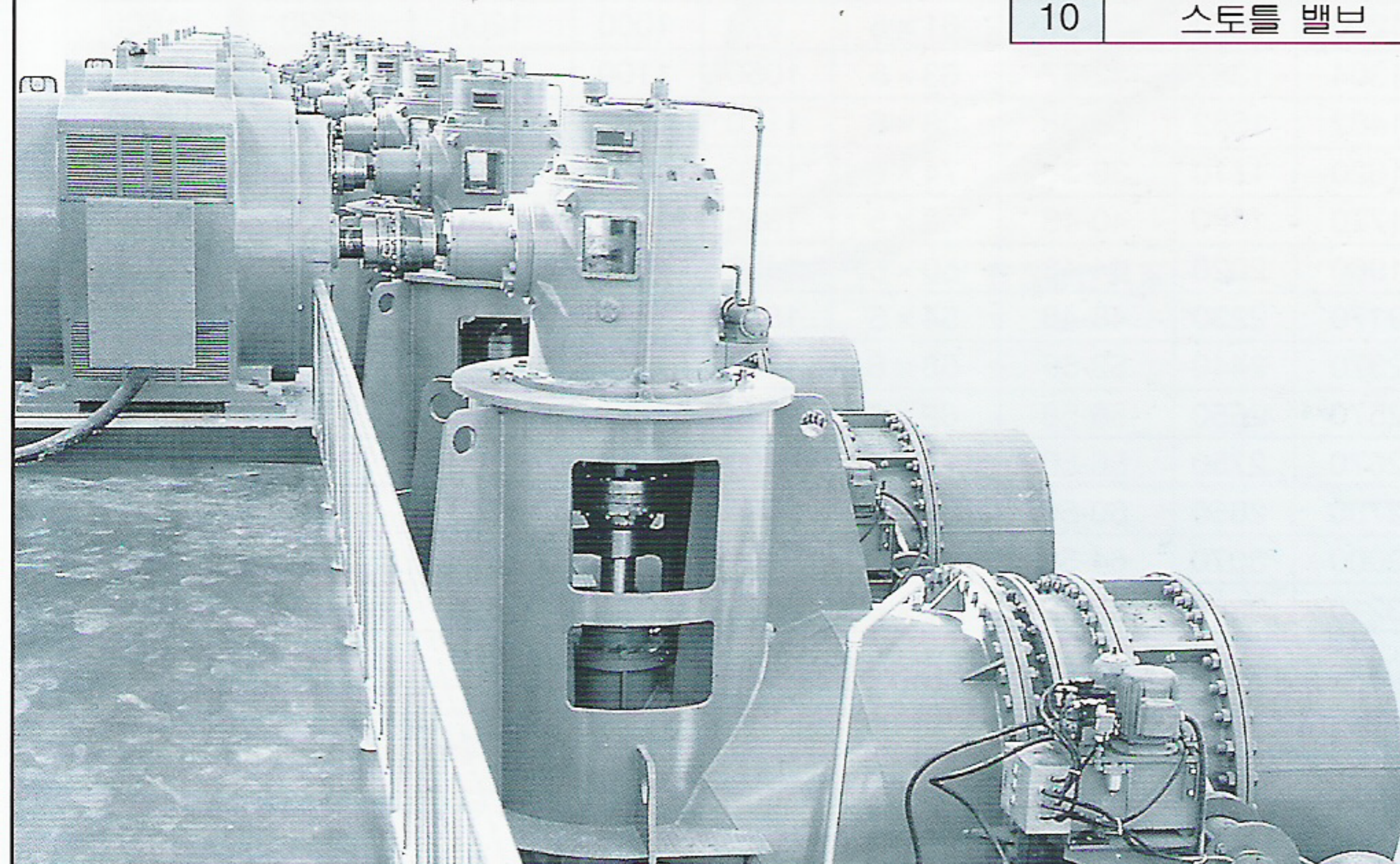
1. Open the regular valve
2. Close the regular valve
3. Valve will be closed in the time of urgency
(Closing speed will be done with 2nd stage and can adjust in the very site)
4. Maintaining the mid way



위 회로는 현장여건에 따라 변경 될 수도 있음.

◀ 부 품 명 ▶

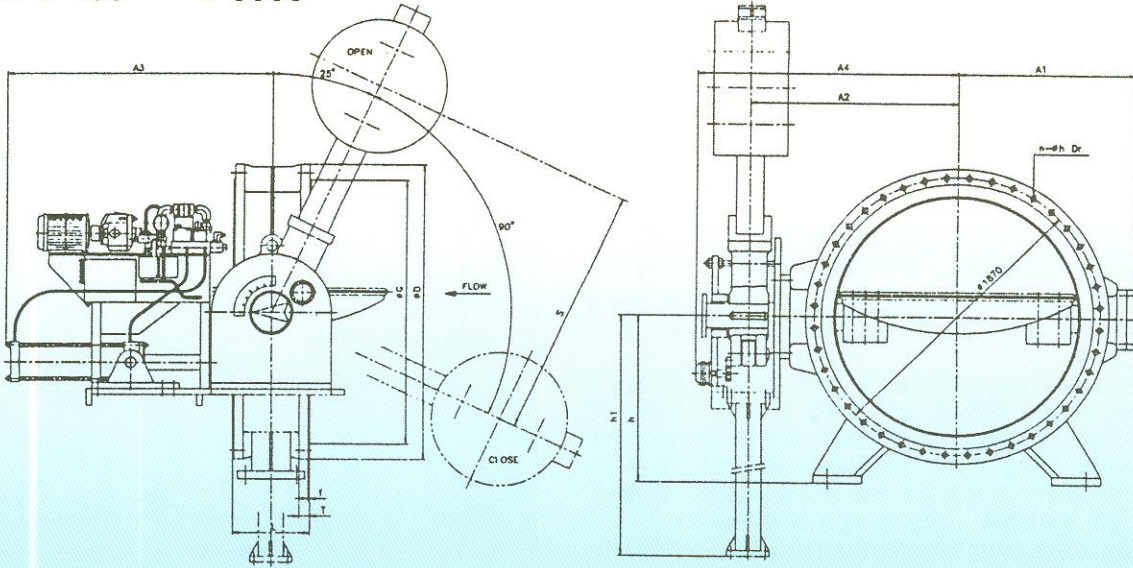
번호	부 품 명	번호	부 품 명
1	오일 탱크	11	실린더
2	흡입 필터	12	레벨 스위치
3	유압 펌프	13	레벨 게이지
4	수동 펌프	14	주유구
5	체크 밸브	15	암
6	릴리프 밸브	16	추
7	게이지 코크	17	
8	게이지	18	
9	솔레노이드 밸브	19	
10	스토를 밸브	19-1	



긴급차단밸브 치수표

Dimensions of Non-Return Valves

● $\Phi 400 \sim \Phi 3000$



단위 : mm

d	L	Flange					A1	A2	A3 (Ref.)	A4 (Ref.)	P (Ref.)
		H	K	Bolt Hole		T × f					
				C	n-h						
400	216	565	477	515	16-28	34 × 4	480	470	600	660	780
450	222	615	527	565	20-28	35 × 4	520	490	600	680	820
500	229	670	582	620	20-28	36 × 4	550	520	600	710	880
600	267	780	682	725	20-31	40 × 4	620	560	820	815	950
700	292	895	797	840	24-31	46 × 4	700	645	820	900	1050
800	319	1015	904	950	24-34	49 × 5	760	690	820	940	1200
900	330	1115	1004	1050	28-34	51 × 5	820	750	1200	1000	1300
1000	410	1230	1111	1160	28-37	55 × 5	900	920	1200	1240	1500
1100	450	1366	1200	1270	32-37	61 × 5	970	1000	1200	1320	1600
1200	470	1470	1304	1387	32-37	63 × 5	1050	1100	1200	1480	1700
1350	530	1642	1462	1552	36-38	68 × 6	1170	1200	1200	1580	1800
1500	530	1800	1620	1710	36-38	74 × 6	1270	1300	1300	1700	2000
1650	530	1950	1770	1680	40-48	48 × 5	1350	1400	1300	1800	2200
1800	550	2115	1960	2020	44-48	50 × 5	1450	1450	1300	1850	2400
2000	550	2325	2170	2230	48-48	54 × 5	1550	1550	1500	1950	2600
2200	550	2250	2370	2440	52-56	58 × 6	1680	1700	1500	2100	2900
2400	580	2760	2570	2650	56-56	62 × 6	1840	1800	1500	2200	3200
2500	580	2860	2670	2750	56-56	64 × 6	1900	1850	1500	2250	3300
2600	580	2960	2780	2850	60-56	66 × 6	2000	1900	1650	2500	3400
2800	600	3180	3000	3070	64-56	70 × 6	2100	2000	1650	2600	3600
3000	600	3405	3210	3290	68-62	75 × 6	2150	2100	1650	2650	3800

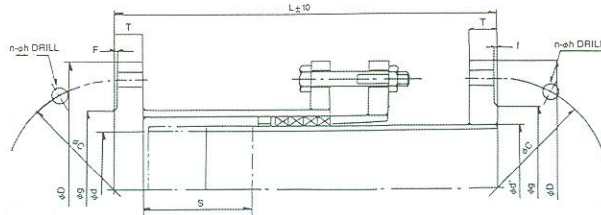
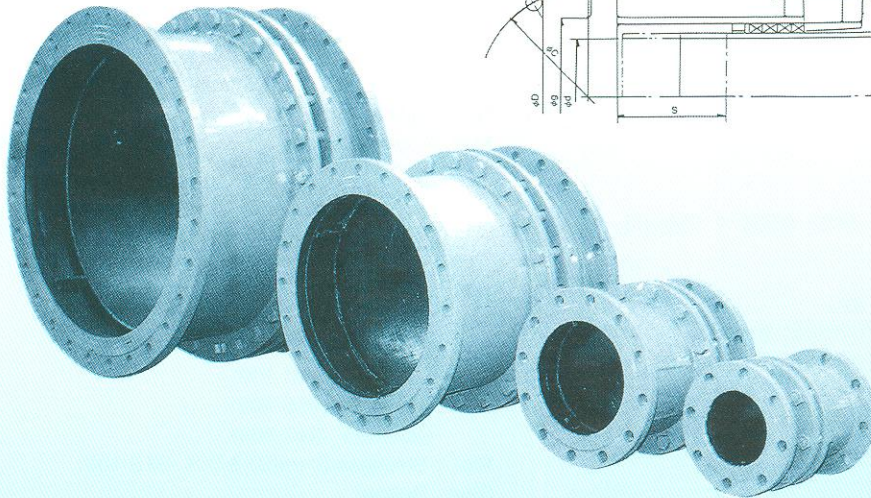
- 주 기:**
1. 플랜지는 제작자 표준이며, 요구에 따라 다른 규격도 적용할 수 있습니다.
 2. 밸브의 면간거리는 제작자 표준이며, 요구에 따라 다른 규격도 적용할 수 있습니다.

- Note:**
1. Flange rating is maker standard, but other standards are available on request.
 2. Lay-length of valve is the dimensions of maker standard, but other standards are available on request.

신축관 치수표 (플랜지형)

Dimensions of Expansion Joint (Flange Type)

● $\Phi 80 \sim \Phi 2000$



단위 : mm

Bore (d)	Flange					Pipe Out Dia	Face To Face	Stroke
	D	G	C	T × f	n-h	d ¹	L	S
80	200	133	160	18 × 2	4-19	89.1	310	80
100	220	153	180	18 × 2	8-19	114.3	310	80
125	250	183	210	20 × 2	8-19	139.8	325	80
150	285	209	240	22 × 2	8-23	165.2	330	80
200	340	264	295	24 × 2	8-23	216.5	390	120
250	395	319	350	24 × 2	12-23	267.4	400	120
300	445	367	400	26 × 3	12-23	318.5	480	150
350	505	427	460	26 × 3	16-23	355.6	490	150
400	565	477	515	26 × 3	16-28	406.4	530	175
450	615	527	565	28 × 3	20-28	457.2	540	175
500	670	582	620	30 × 3	20-28	508.0	580	200
600	780	682	725	33 × 3	20-31	608.6	610	200
700	895	797	840	35 × 3	24-35	711.2	665	225
800	1015	904	950	37 × 3	24-34	812.8	670	225
900	1115	1004	1050	39 × 3	28-34	914.4	710	250
1000	1230	1111	1160	41 × 3	28-37	1016.0	730	250
1100	1340	1221	1270	41 × 3	32-37	1117.6	770	275
1200	1470	1304	1387	43 × 3	32-37	1219.2	775	275
1350	1642	1462	1552	45 × 3	36-42	1371.6	805	275
1500	1800	1620	1700	48 × 3	36-42	1524.0	810	275
1650	1950	1770	1865	50 × 6	40-48	1676.4	860	300
1800	2115	1960	2020	51 × 6	44-48	1828.8	960	350
2000	2325	2170	2230	54 × 6	48-48	2032.0	975	350

역수방지밸브 Flap Valves

역수방지밸브

관로의 토출구에 취부되어 자동적으로 역류를 방지하도록 설계되어 있습니다.

사 양

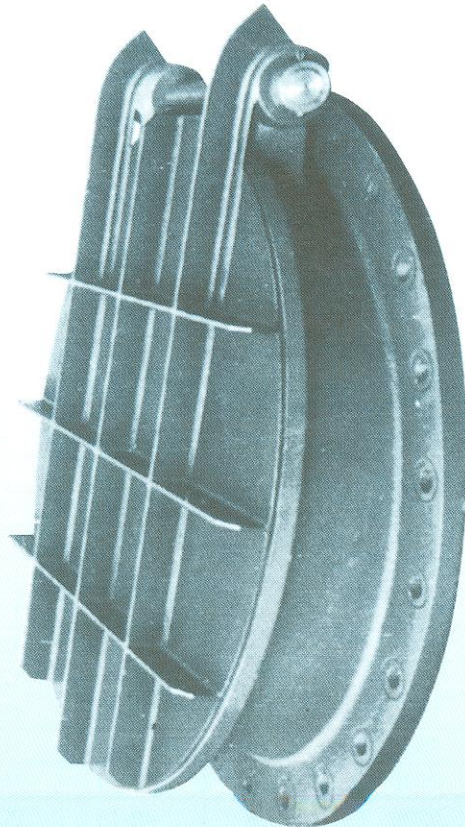
1. 규 격
200mm , 3,000mm
2. 사용압력
최고7.5kgf/cm²
3. 밸브접합부
플랜지(KS D 3578 , 4309)
수요자의 요구에 따라서 다른 규격도 적용할 수 있습니다.
4. 사용유체 : 상하수
5. 주요재질
몸 통 회주철품 (GC 200)
 일반구조용압연강재(SS 400)
디 스크 회주철품 (GC 200)
 일반구조용 압연강재 (SS 400)
핀 스텔레스강(STS 304,403)
시 트 고무

Flap Valves

Designed for preventing reversal of flow at pipe outlet.

Specification

1. Size :
Nominal dia : 200mm-3,000mm
2. Working Pressure :
Max. 7.5 kgf/cm²
3. Valve End :
Flange (KS D 4309,KS D 3578)
Other standards are available on request.
4. Fluid:
Service Water
5. Main Material
Body:Steel Plate (SS 400)
 Cast Iron (GC 200)
Disc :Steel Plate (SS 400)
 Cast Iron (GC 200)
Pin : Stainless Steel(STS 304, STS 403)
Seat :.Rubber



전동식 개폐대 (밸브 및 수문용) Electric Head Stock (for Valve & Gate)

개폐대 (밸브 및 수문용)

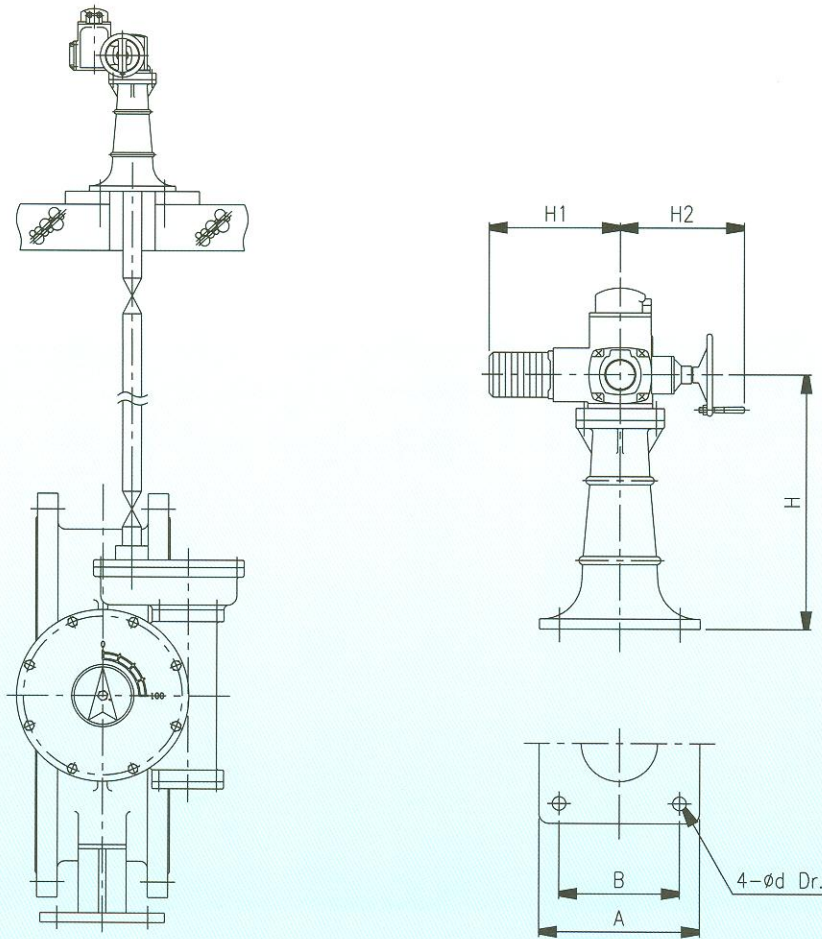
- 수동조작형
바깥나사식이나 안나사식 밸브를 위한 베벨 또는 웜기어 감속기형이 있습니다.
- 전동구동식 개폐대
사용되고 있는 AUMA형 전동구동식 조작기는 수동 또는 전동조작이 가능합니다.
이 전동구동조작기는 안나사식 밸브나 바깥나사식 밸브에 사용되며, 인터록 스위치에 의해 전동인 경우는 스위치로 조작을 하며, 수동인 경우는 핸드휠로 조작합니다.

Head Stock (for Valve & Gate)

Head-operated head stock
Bevel or worm gear type for outside screw valve or inside screw valve.

Electric head stock
Utilizing Model "AUMA" actuator, this model is hand or electrically operated.
This electric actuator available for inside screw nonrising valve stem or outside screw rising stem valve.
Switching operation from hand to motor and vice versa is performed by manipulating handle-wheel.

설치도

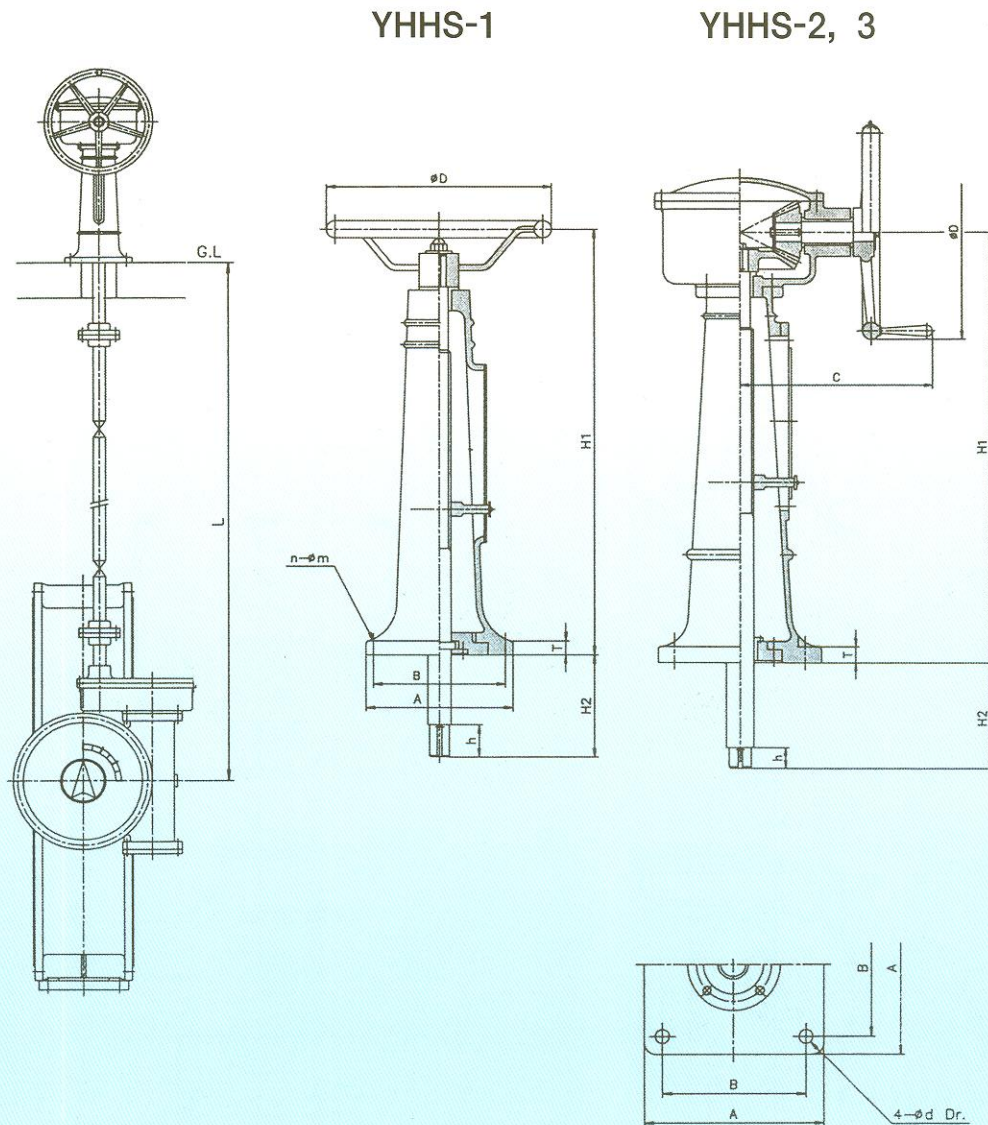


형식 \ 기호	A	B	T	d	H	H1	H2
YHHS-1	300	240	25	27	760	300	280
YHHS-2	350	280	25	27	760	400	350
YHHS-3	400	330	30	27	800	520	380

- H2의 치수는 모터용량에 따라 변하여진다.
- 설치도 L의 치수는 배관의 상황에 따라 정하여진다.

수동 개폐대 Head Stork

설치도



단위 : mm

번호	기호	A	B	T	4-φd	h	H1	H2	C	D	용도(구경)
	YHHS-1	220	170	25	19	50	800	280	-	325	200~400
	YHHS-2	300	240	30	27	60	810	300	320	400	450~700
	YHHS-3	450	340	30	27	70	810	300	550	600	800~2400

1. 수동개폐 조작기의 주문시에는 연결하여 사용코자하는 밸브의 개폐 회전수를 알려주십시오.
2. 설치도 L의 치수는 배관의 상황에 따라 정하여 진다.

수 문 (각형)

Sluice Gates (Rectangular Type)

사각형 수문

바깥나사식 대형 4각 수문으로써 수동조작 개폐대 수압, 유압 실린더 및 전동조작개폐대로 조작됩니다.

사 양

1. 규 격 200-4,000mm
2. 사용유체 상하수 및 해수등
3. 사용압력 14psi(10maq)
4. 주요재질
 몸 통 회주철품(GC 200)
 일반구조용 압연강재(SS 400)
 디 스크 회주철품 (GC 200)
 일반구조용 압연강재 (SS 400)
 시 트 청동주물(BC 6)
 스 템 스텐레스강(STS 304, 403)

주문자의 요구에 따라서 다른 재질로 적용할 수 있습니다.

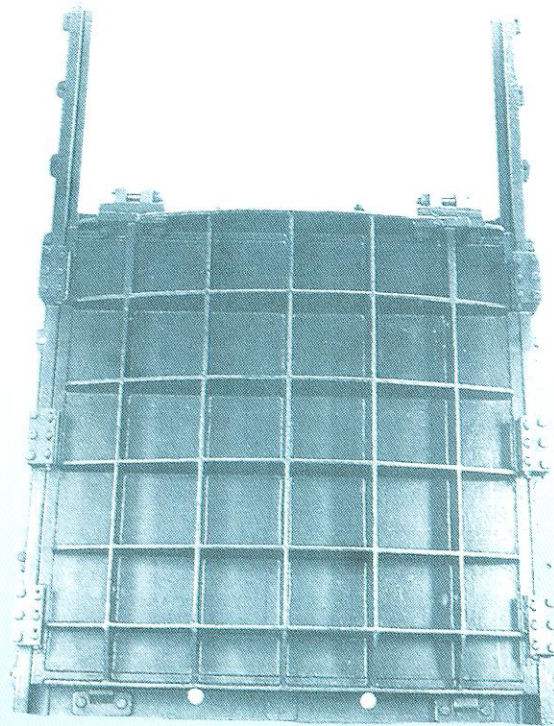
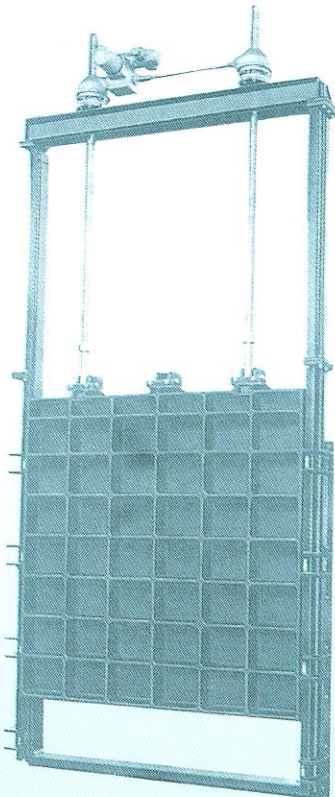
Sluice Gates(Rectangular Type)

A large size, square sluice gate with outside stem screw. Controlled by a headstock operated by hand, hydraulic pressure, oil pressure or electric motor. An extra large size version is available with duplex headstock.

Specification

1. Size Norminal dia : 200mm-4,000mm
2. Fluid : Sewage, service water etc.
3. Working Pressure : 14 psi(10mAq)
4. Main Material :
 Body : Steel Plate(SS 400)
 Cast Iron(GC 200)
 Disc : Steel Plate(SS 400)
 Cast Iron(GC 200)
 Seat : Bronze Casting(BC 6)
 Stem : Stainless Steel(STS 304, STS 403)

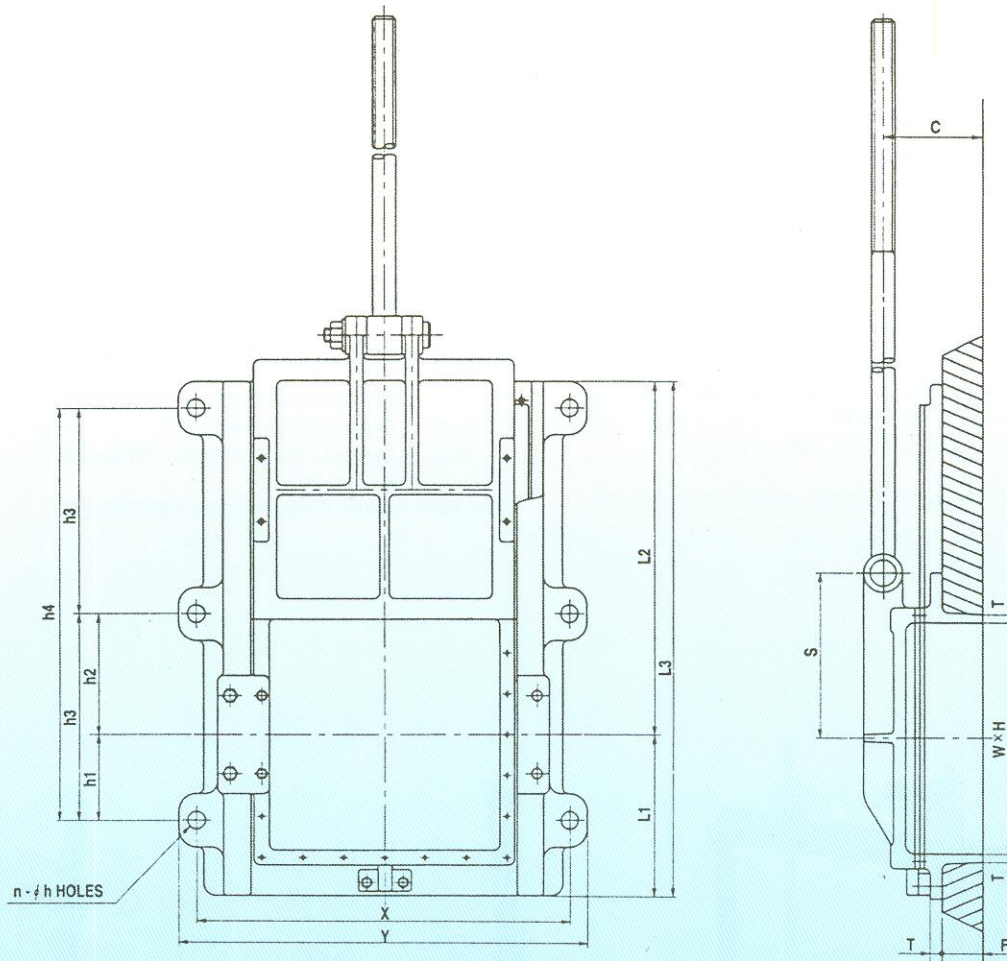
The other materials are available on request.



수 문 (각형)

Sluice Gates (Rectangular Type)

● $\Phi 200 \sim \Phi 550$



단위 : mm

Gate Size W×H	h1	h2	h3	h4	X	Y	L1	L2	L3	F	C	S	T	n- Φ h
200×200	80	280	360	-	370	415	165	375	540	25	90	150	14	4-19
250×250	90	370	460	-	420	465	190	450	640	25	90	175	14	4-19
300×300	110	160	270	540	470	515	215	525	740	30	100	200	15	6-19
350×350	120	180	300	600	520	565	235	605	840	30	100	225	15	6-19
400×400	130	210	340	680	600	650	265	685	950	40	110	265	15	6-19
450×450	150	240	390	780	650	700	295	765	1060	40	110	290	15	6-19
500×500	185	265	450	900	700	750	330	845	1175	45	130	320	16	6-19
550×550	210	290	500	1000	750	800	360	920	1280	45	130	345	16	6-19

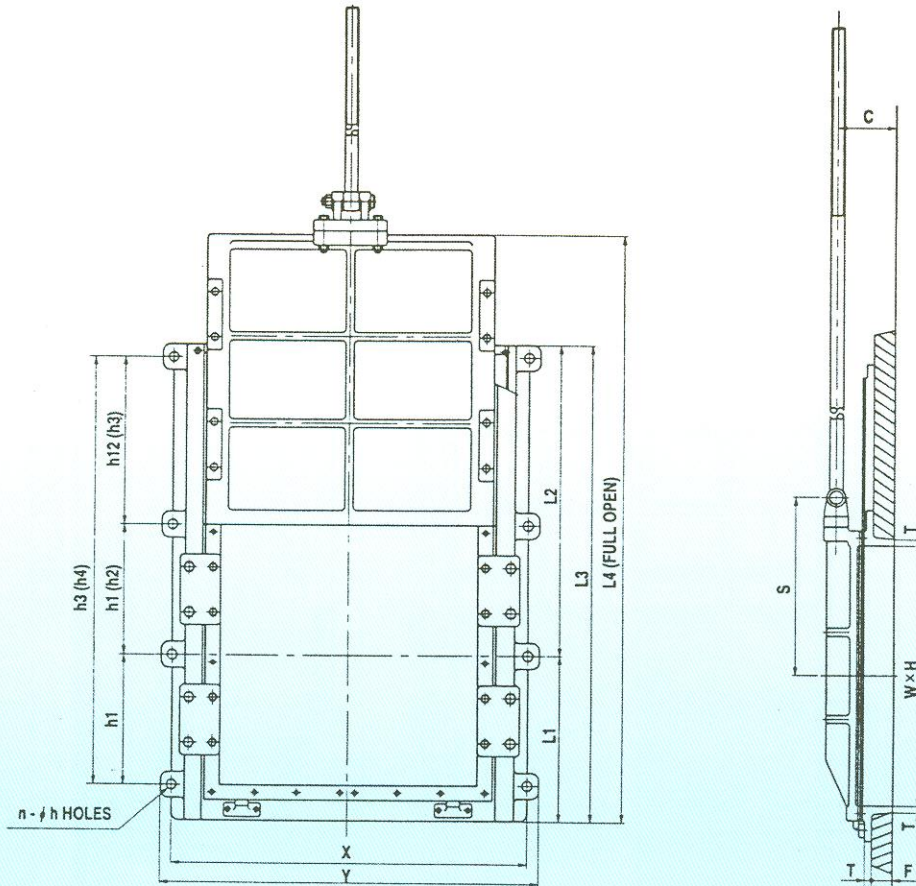
주기 (Note)

- Gate Size W:게이트 폭 (Width of Gate)
H:게이트 높이 (Height of Gate)

수 문 (각형)

Sluice Gates (Rectangular Type)

● $\Phi 600 \sim \Phi 1600$



단위 : mm

Gate Size W x H	h1	h2	h3	h4	X	Y	L1	L2	L3	F	C	S	T	n- ϕ h
600 x 600	300	400	1000	-	860	920	385	745	1130	1345	50	150	400	8-27
700 x 700	350	450	1150	-	960	1020	445	845	1290	1555	55	170	480	8-27
800 x 800	400	500	1300	-	1060	1120	500	960	1460	1780	60	180	540	8-27
900 x 900	450	550	1450	-	1160	1220	560	1060	1620	1990	75	200	590	8-27
1000x1000	100	400	450	1650	1300	1370	670	1210	1880	2270	110	250	670	10-27
1100x1100	100	450	500	1850	1400	1470	720	1360	2080	2470	110	270	710	10-27
1200x1200	100	500	550	2050	1500	1570	770	1510	2280	2670	110	270	760	10-27
1300x1300	215	430	550	2270	1630	1710	820	1690	2510	2870	125	280	835	12-35
1400x1400	230	460	600	2440	1730	1810	870	1810	2680	3070	125	280	880	12-35
1500x1500	250	500	650	2650	1830	1910	920	1685	2505	3270	125	280	930	12-35
1600x1600	265	530	650	2770	1940	2020	970	1975	2945	3470	125	300	980	12-35

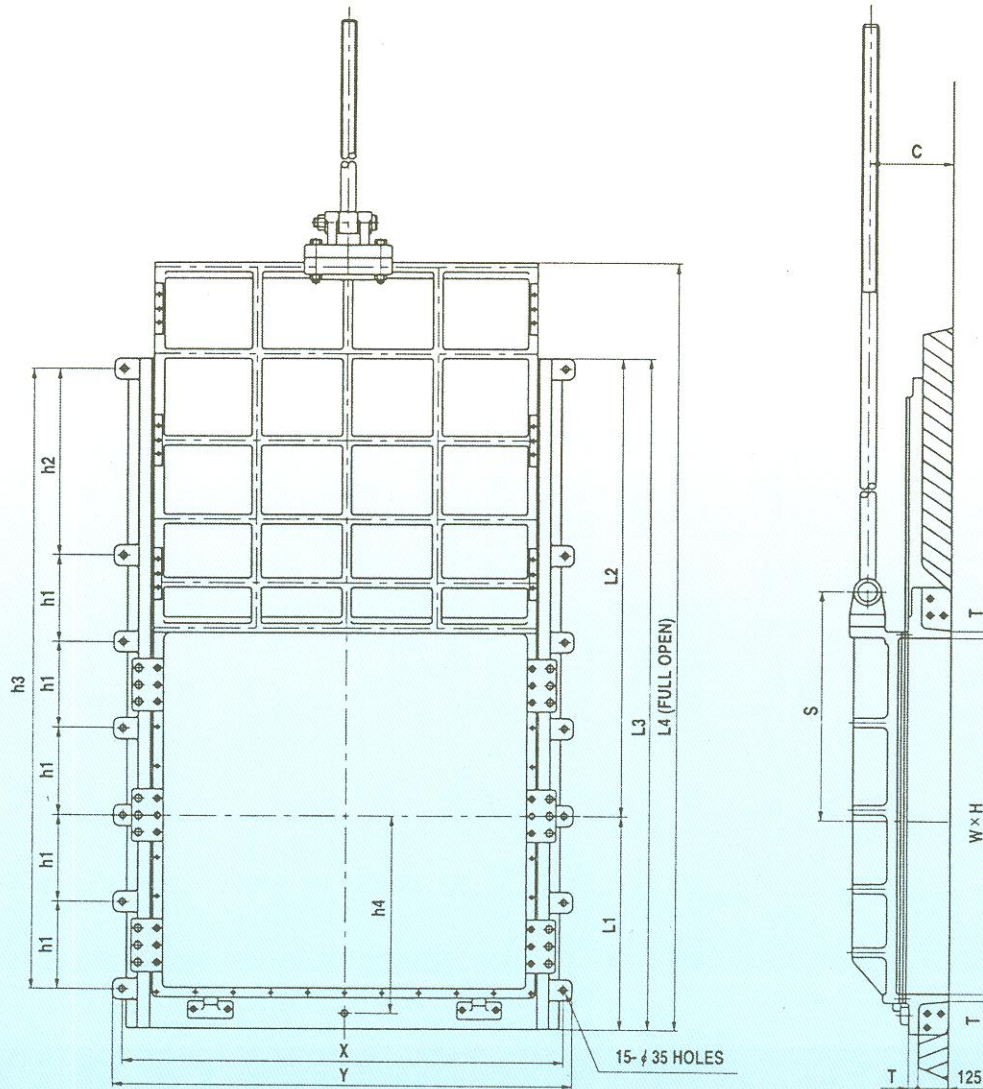
주 기 (Note)

- Gate Size W: 게이트 폭 (Width of Gate)
H: 게이트 높이 (Height of Gate)

수 문 (각형)

Sluice Gates (Rectangular Type)

● Φ 1700 ~ Φ 2000



단위 : mm

Gate Size W x H	h1	h2	h3	h4	X	Y	L1	L2	L3	L4	C	S	T
1700x1700	425	650	2775	1000	2040	2120	1050	2000	3050	3700	320	1060	25
1800x1800	450	700	2950	1050	2140	2220	1100	2125	3225	3900	320	1110	25
1900x1900	475	750	3125	1100	2240	2320	1150	2250	3400	4100	340	1160	25
2000x2000	500	750	3250	1150	2340	2420	1200	2325	3525	4300	340	1210	25

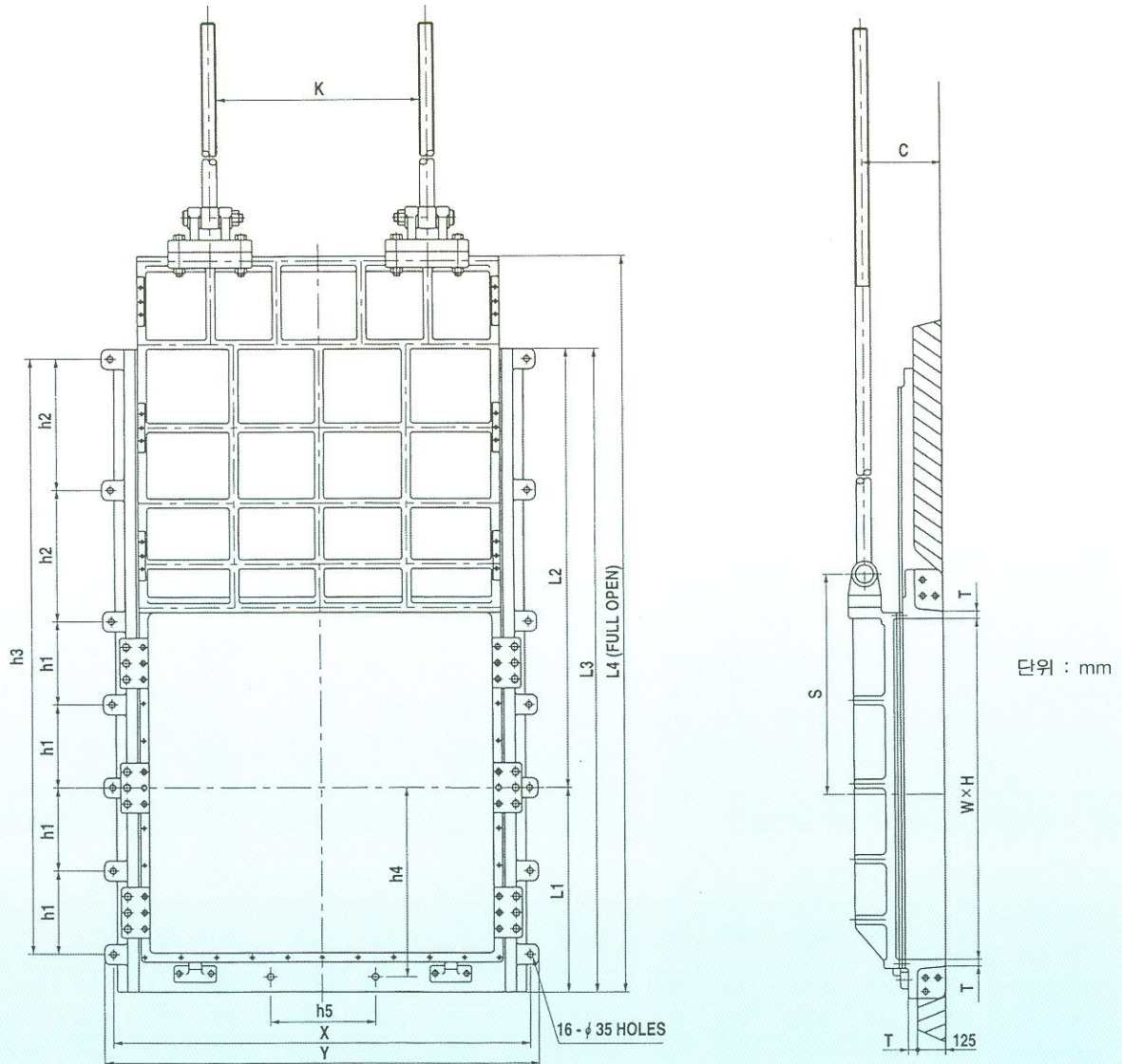
주기 (Note)

- Gate Size W: 게이트 폭 (Width of Gate)
H: 게이트 높이 (Height of Gate)

수문 (각형)

Sluice Gates (Rectangular Type)

● Φ 2100 ~ Φ 2500



단위 : mm

Gate Size W x H	h1	h2	h3	h4	h5	X	Y	L1	L2	L3	L4	K	C	S	T
2100x2100	525	650	3400	1200	600	2440	2520	1250	2425	3675	4500	1500	300	1240	25
2200x2200	550	675	3550	1250	650	2540	2620	1300	2525	3825	4700	1500	300	1290	25
2300x2300	575	700	3700	1300	650	2640	2720	1350	2625	3975	4900	1650	320	1370	25
2400x2400	600	725	3850	1350	700	2740	2820	1400	2725	4125	5100	1650	320	1420	25
2500x2500	625	750	4000	1400	700	2840	2920	1450	2825	4275	5300	1800	340	1480	25

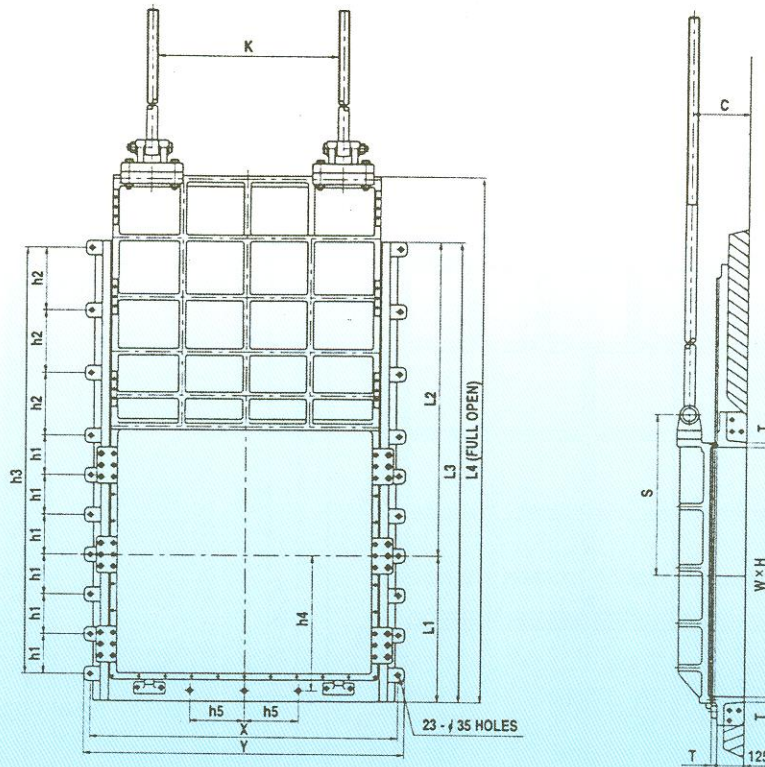
주 기 (Note)

- Gate Size W: 게이트 폭 (Width of Gate)
H: 게이트 높이 (Height of Gate)

수 문 (각형)

Sluice Gates (Rectangular Type)

● Φ 2600 ~ Φ 4000



단위 : mm

Gate Size W x H	h1	h2	h3	h4	h5	X	Y	L1	L2	L3	L4	K	C	S	T
2600x2600	430	600	4380	1450	850	2940	3020	1500	3150	4650	5500	1750	340	1550	25
2700x2700	450	630	4590	1500	900	3040	3120	1550	3300	4850	5700	1800	350	1600	25
2800x2800	465	655	4755	1550	950	3140	3220	1600	3420	5020	5900	1870	350	1660	25
2900x2900	480	680	4920	1600	1000	3240	3320	1650	3540	5190	6100	1940	360	1710	25
3000x3000	500	700	5100	1650	1050	3340	3420	1700	3660	5360	6300	2000	360	1760	25
3100x3100	515	725	5265	1700	1100	3440	3520	1750	3780	5530	6500	2070	380	1820	25
3200x3200	530	750	5430	1750	1150	3540	3620	1800	3900	5700	6700	2140	380	1870	25
3300x3300	550	750	5250	1800	900	3640	3720	1870	3680	5550	6920	2200	400	1930	25
3400x3400	565	750	5340	1850	950	3740	3820	1920	3725	5645	7120	2270	400	1980	25
3500x3500	580	700	5580	1900	950	3840	3920	1970	3920	5890	7320	2340	400	2030	25
3600x3600	600	700	5700	1950	1000	3940	4020	2020	3980	6000	7520	2400	400	2080	25
3700x3700	615	700	5790	2000	1000	4040	4120	2070	4025	6095	7720	2470	420	2150	25
3800x3800	630	750	6030	2050	1050	4140	4220	2120	4220	6340	7920	2540	420	2200	25
3900x3900	650	750	6150	2100	1100	4240	4320	2170	4280	6450	8120	2600	420	2250	25
4000x4000	665	750	6240	2150	1100	4340	4420	2220	4325	6545	8320	2670	420	2300	25

주기 (Note)

- Gate Size W: 게이트 폭 (Width of Gate)
H: 게이트 높이 (Height of Gate)

수 문 (원형)

Sluice Gates (Circular type)

원형수문

바깥나사식 또는 안나사식의 일체형 원형의 수문으로써 특히 유체의 유입, 유출 및 같은 방향에서의 흐름에 적합하도록 설계되어 있습니다.

사 양

1. 규 격 200-2500mm
2. 사용유체 상하수 및 해수
3. 사용압력 14psi 10maq
4. 주요재질
 - 몸 통 회주철품 (GC 200)
덕타일주철품 (GCD 450)
 - 디 스크 회주철품 (GC 200)
덕타일주철품 (GCD 450)
탄소강품(SC 410)
 - 시 트 청동주물 (BC 6)
 - 축 (스텝) 스텐레스강 (STS 304)

수요자의 요구에 따라서 다른 재질도 적용할 수 있습니다.

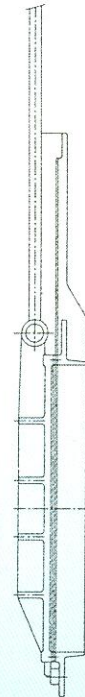
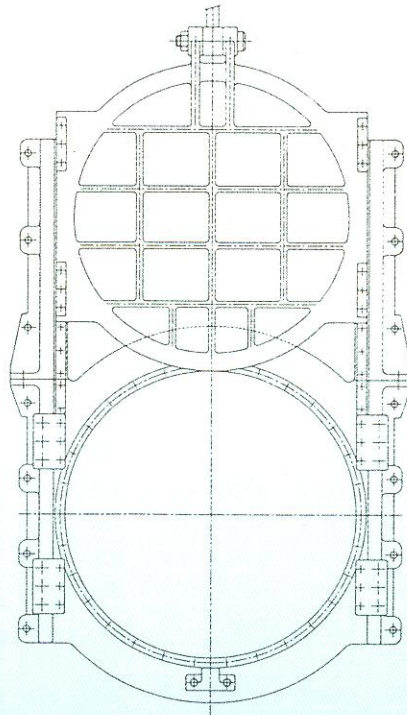
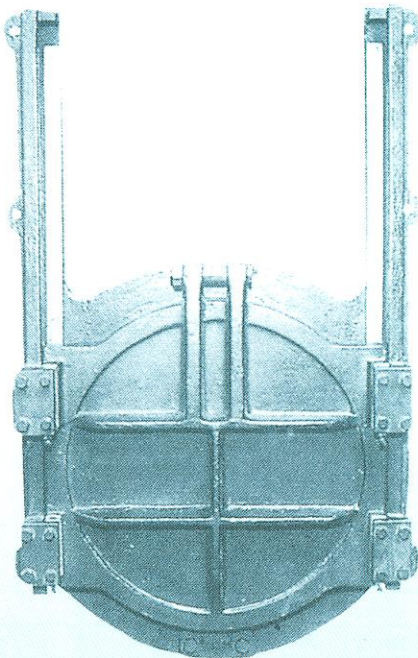
Sluice Gates(Circular Type)

A disc-shaped sluice gate with outside-screw rising or non-rising stem. Especially suitable for water intakes outlets and the like operated from a gear stock, hydraulic and oil pressure cylinder or electric moter.

Specification(standard)

1. Size : Nominal dia 200mm ~ 2,500mm
2. Fluid:
Service Water , sewage, sea water etc.
3. Working Pressure : 14 psi (10 maq)
4. Main Material
 - Body: Cast Iron (GC 200)
Ductile Cast Iron(GCD 450)
 - Disc : Cast Iron(GC 200)
Ductile Cast Iron(GCD 450)
 - Stem: Stainless Steel (STS 304, STS 403)
 - Seat: Bronze Casting (BC 6)

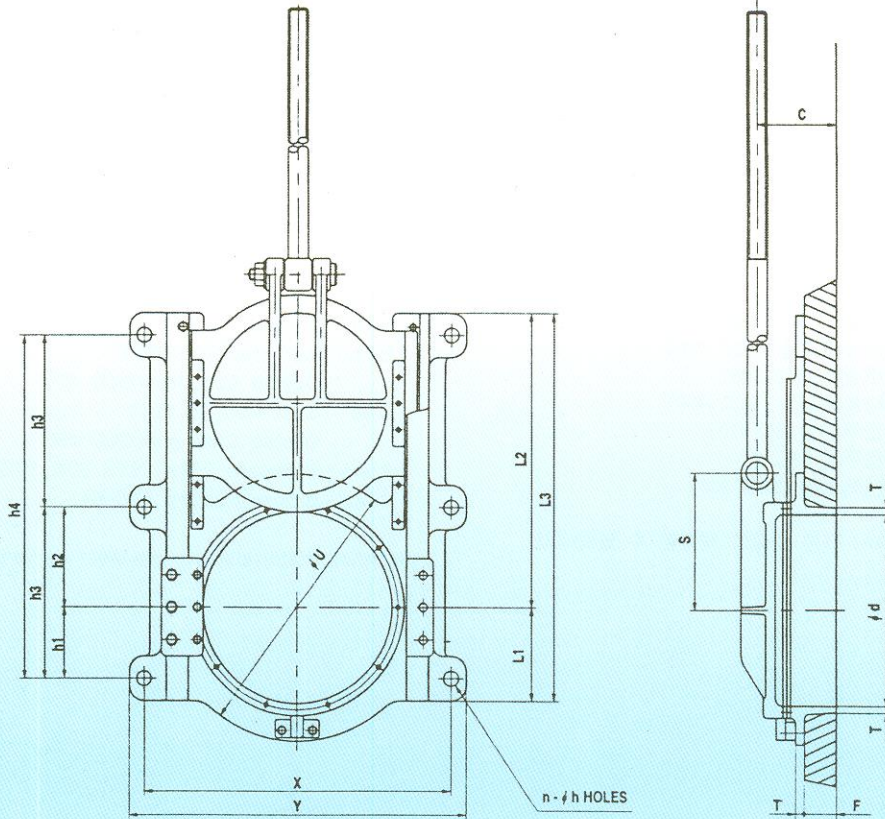
The other materials are available on request.



수 문 (원형)

Sluice Gates (Circular type)

● $\Phi 200 \sim \Phi 1200$

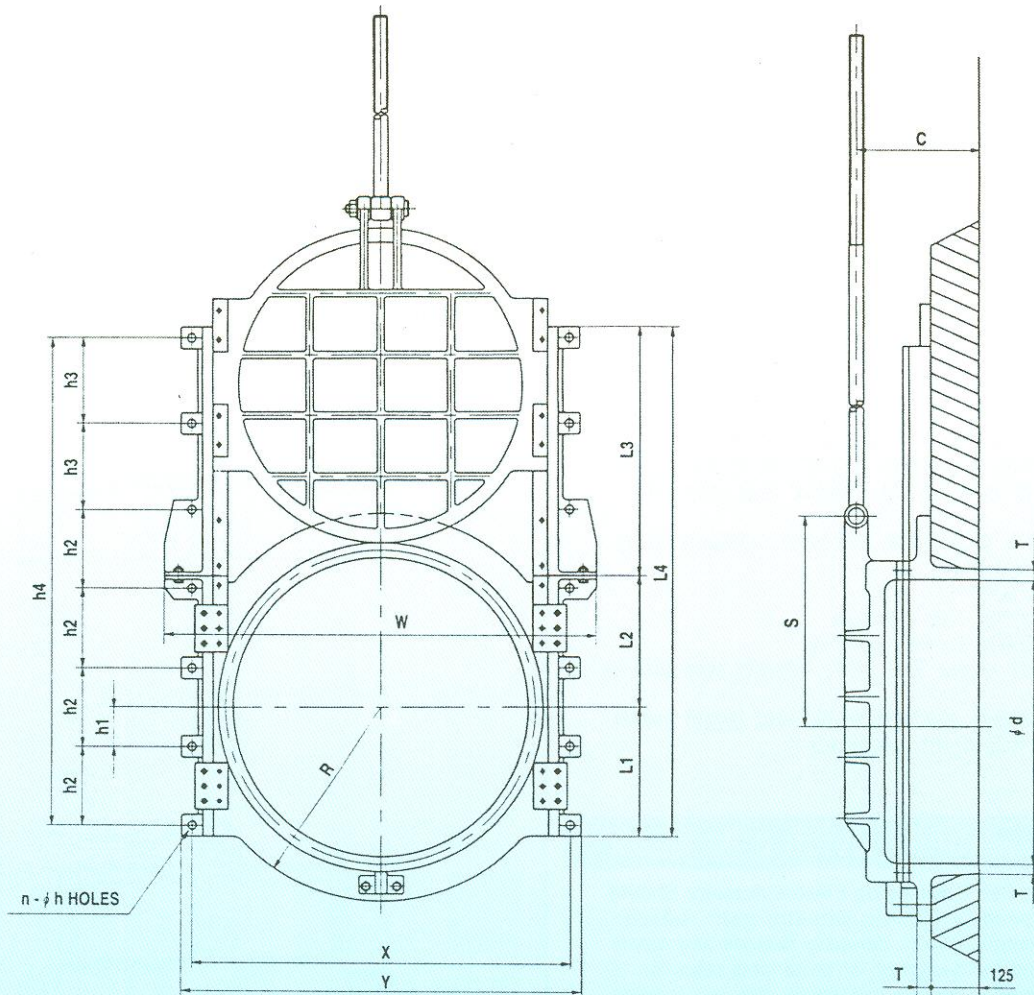


단위: mm

Gate Size Φd	h1	h2	h3	h4	X	Y	ΦU	L1	L2	L3	F	C	S	T	n- Φh
200	70	280	350	-	370	415	300	100	310	410	25	90	150	14	4-19
250	90	350	440	-	420	465	360	125	375	500	25	90	175	14	4-19
300	100	160	260	520	470	515	430	135	455	570	30	100	200	15	6-19
350	120	180	300	600	520	565	480	155	515	670	30	100	225	15	6-19
400	150	210	360	720	600	650	540	185	605	790	40	110	265	15	6-19
450	160	240	400	800	650	700	600	195	675	870	40	110	290	15	6-19
500	180	270	450	900	700	750	680	230	770	1000	45	130	320	16	6-19
550	200	300	500	1000	750	800	730	250	850	1100	45	130	345	16	6-19
600	210	130	340	1020	860	920	780	260	860	1120	50	130	365	16	8-27
650	230	140	370	1110	910	970	830	280	930	1210	50	140	390	16	8-27
700	250	150	400	1200	960	1020	900	300	1000	1300	55	150	430	18	8-27
800	280	170	450	1350	1060	1120	1100	330	1120	1450	60	160	500	18	8-27
850	300	180	480	1440	1110	1170	1150	350	1190	1540	60	160	525	18	8-27
900	320	180	500	1500	1160	1220	1200	370	1230	1600	75	180	550	18	10-27
1000	360	40	400	1600	1300	1370	1300	425	1305	1730	110	220	615	20	10-27
1050	380	50	430	1720	1350	1420	1350	445	1405	1850	110	220	640	20	10-27
1100	400	50	450	1800	1400	1470	1400	465	1465	1930	110	240	665	20	10-27
1200	440	60	500	2000	1500	1570	1520	505	1625	2130	110	240	715	20	10-27

수문 (원형) Sluice Gates (Circular type)

● $\Phi 1300 \sim \Phi 2000$



단위: mm

Gate Size Φd	h_1	h_2	h_3	h_4	X	Y	W	R	L_1	L_2	L_3	L_4	C	S	T	$n-\phi h$
1300	160	320	400	2080	1630	1710	1780	850	550	580	1090	2220	260	785	25	14-35
1350	170	330	420	2160	1680	1760	1840	875	570	590	1140	2300	260	810	25	14-35
1400	180	350	420	2240	1730	1810	1900	900	600	620	1160	2380	260	835	25	14-35
1500	200	380	440	2400	1830	1910	2000	950	650	680	1210	2540	260	885	25	14-35
1600	200	400	480	2560	1940	2020	2100	1000	670	720	1310	2700	280	935	25	14-35
1650	220	420	480	2640	2000	2080	2180	1025	710	750	1320	2780	280	960	25	14-35
1700	-	320	380	2740	2040	2120	2220	1050	720	780	1400	2900	280	990	25	18-35
1800	-	330	420	2910	2140	2220	2320	1100	740	810	1520	3070	280	1040	25	18-35
1850	-	340	420	2960	2200	2280	2380	1120	760	830	1530	3120	300	1065	25	18-35
1900	-	350	440	3070	2240	2320	2420	1150	780	850	1600	3230	300	1090	25	18-35
2000	-	370	450	3200	2340	2420	2520	1200	820	900	1640	3360	300	1140	25	18-35

자중강하식 조작개폐대(비상차단계이트) Self-Descending Actuator(For Emergency Shut-off Gate)

자중강하 전동개폐대

■ 이환의 자중강하 전동개폐대는 기존 전동개폐대의 우수한 기능을 그대로 유지하면서, 자중강하 기능 즉, 별도의 기어감속기, 전자클러치, 충격흡수장치 및 안전장치등으로 구성되어 있습니다. 수문의 개폐는 정상적인 작동에서는 전동으로 조작되며, 지진, 태풍, 호우, 정전 비상시에 게이트를 비상차단코져 할 경우, D.C센서에 의해서 전원공급을 차단, 게이트의 자중으로 자동차단토록 설계 제작되었습니다.

특성

1. 고급윤활유로 충만된 완전 밀폐형으로 순간작동이 가능합니다.
 2. D.C센서의 안전장치 및 충격흡수장치를 사용함으로써 용이한 작동을 보장합니다.
 3. 다이얼타입의 현장개도지시계가 부착되어 있으며, 원격 조작을 위한 리미트스위치의 적용이 가능합니다.
 4. 충격흡수장치는 비상차단시 자중에 의해 발생하는 충격을 충분히 흡수하여 정숙한 작동으로 안전성에서 매우 뛰어납니다.
 5. 부품의 단순화 및 표준화로 고성능 및 고품질이면서 가격이 매우 저렴합니다.
- 수문개폐속도(표준사양)
 ∴ 평상시 정상적인 작동 0.3m/min
 ∴ 비상시 수문자동차단속도 2.0m/min
- 규격 및 용량은 수문의 규격, 수두, 작동조건 등에 의해 선정 됩니다.
- 개폐속도 및 형태는 수요자의 요구에 의해 변경이 가능하며, 특수형도 주문생산이 가능합니다.

Self Descending Electric Actuator

■ Yi Hwan, Self Descending Electric Actuator Should be composed of electric actuator gear reducer, electromagnetic clutch, damping devices and safety device, and be designed for motorized actuation in normal operation and for self weight closing actuation in emergency shut off by the D.C sensered electromagnetic clutch.

■ Features

1. The unit is of fully enclosed construction, filled with high grade iubicants and ready for immediate use.
2. The unit results in easy operation and simple by using the D.C sencer and safety devices, damping devices.
3. All unit are acceptable local position indicator as dial type and limit switches for remote indication.
4. Damping devices is fully enough to absorbed the shok which occurs at emergency self weight shut off
5. Low Cost and compact design.

The unique and modular of all components leads to the compact and high quality at lower cost

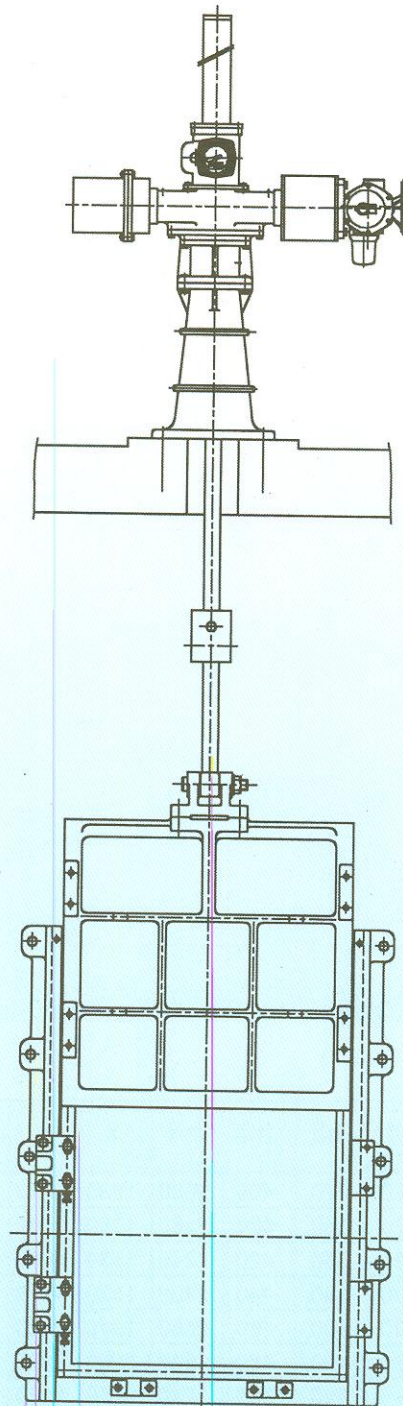
■ Operating Speed (Standard)

- ∴ 평상시 정상적인 작동 0.3m/min
 ∴ 비상시 수문자동차단속도 2.0m/min

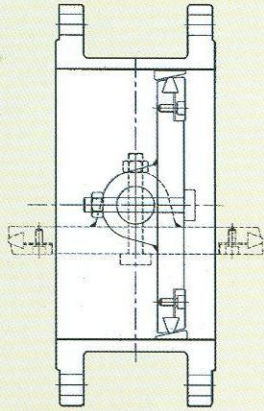
■ The sizing of actuator varies upon the gate size application water head and operation conditions.

■ As special type duplex or special designed flow rate actuators are available on request.

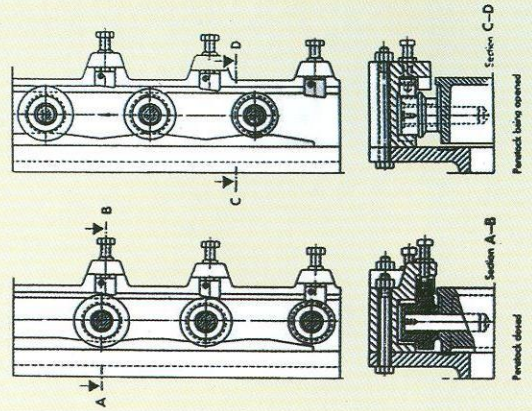
퍼펙트비상차단계이트(특허 제0323464호)



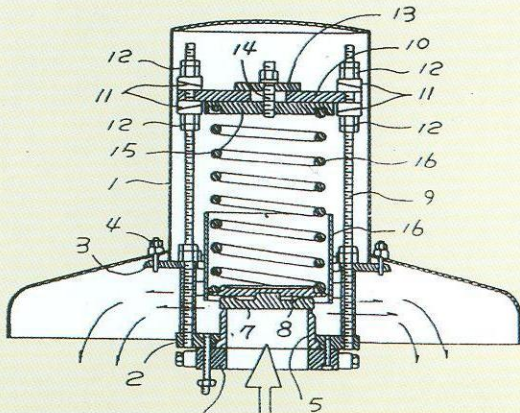
당사 신개발 제품 소개



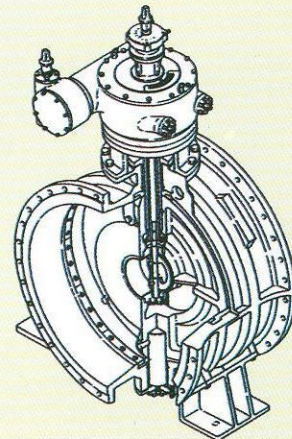
버터플라이밸브 / 제수변식 (실용신안등록제 46786호)



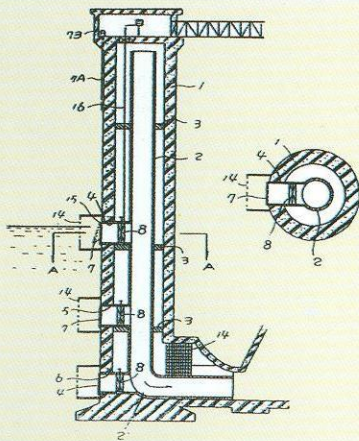
수문시트장치 (실용신안등록제 080301호)



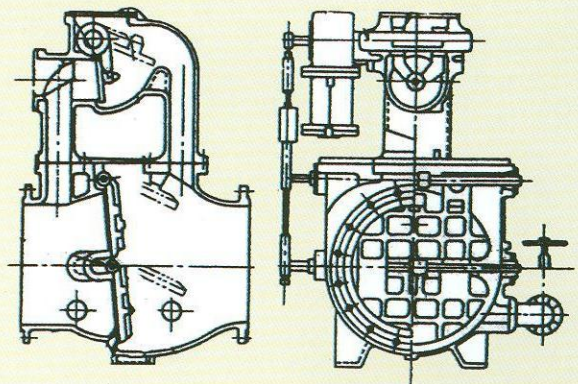
수증압완충밸브 (실용신안등록제 080302호)



더블버터플라이밸브 (실용신안등록제 088743호)



취수탑의 취수개폐장치 (실용신안등록제 138115호)



안폐식 역지변

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- 덕타일 주철 제수밸브(KSB2334)
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- 전 동 조 작 기



이 환 산 업

YI-HWAN INDUSTRIAL CO.

상하수도용 밸브 및 게이트



한국산업규격 KS표시허가공장
KSA 9001 / ISO 9001인증업체

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