

# DOUBLE ECCENTRIC HIGH PERFORMANCE BUTTERFLY VALVES (DOUBLE — OFFSET)

High quality and strong durability to 240°C, 600°C (10Kgf/cm<sup>2</sup>, 20Kgf/cm<sup>2</sup>). Most suitable for high-temp. and high-pressure fluid.  
**DaeJung 3-SE 630 SERIES High-Performance Butterfly Valves.**

## 3-Special Effect

- 1 Small and Light :** Compared to same nominal sized valve (globe, gate), it has light weight, simple structure, and short time for opening and shutting.
- 2 Low Loss of Input :** It was composed of precisely processed seat and disc by minimizing fluid's resistance.
- 3 Easy Maintenance and Repair :** It needs narrow space for its set-up and is easy to set up regardless of horizontal and vertical piping and to maintain and repair it.

### Standard Production Range

1. Face to Face Dim" : ISO 5752, API609, MSS SP-68, DIN3203/K1(Short)
2. Top Flange Dim" : Bolt Hole ISO 5211
3. Stem Dim" : Square Drive to ISO-5211

#### Top Flange

Structure with high radiation effect & wide application in actuator assembly with ISO 5211 dimension

#### V-Teflon Packing

V- pattern with good antitrust & lubrication, elasticity and made by 100% Teflon

#### Disc

Designed for good flow of utility with precision polished stainless steel

#### Cover

Common use in spite of different materials of seat

#### R-Bolt

Bolts for safe receipt of seats and easy to seat change.

#### D.U Bearing

Made of SPCB material and self lubricate for oilless with inside teflon coating and certainly support of the stem.

#### Bottom cover

It's bottom cover and very useful for valve maintenance

#### Stem

One piece stainless steel with antitrust & ISO5211 dimension

#### Adjust Gland

Possible to tightening with Gland Bolt when Gland packing is wore in long time use.

#### Spring

Tightening of Gland packing with stainless steel 304 spring.

#### D.U Bearing

Made of SPCB material and self lubricate for oilless with inside teflon coating and certainly support of the stem.

#### Seat

Possible to use different materials by utility conditions

#### Valve Body

Have a good flow & light weight construction with ISO5752 face to face distance.

#### Stainless Ring

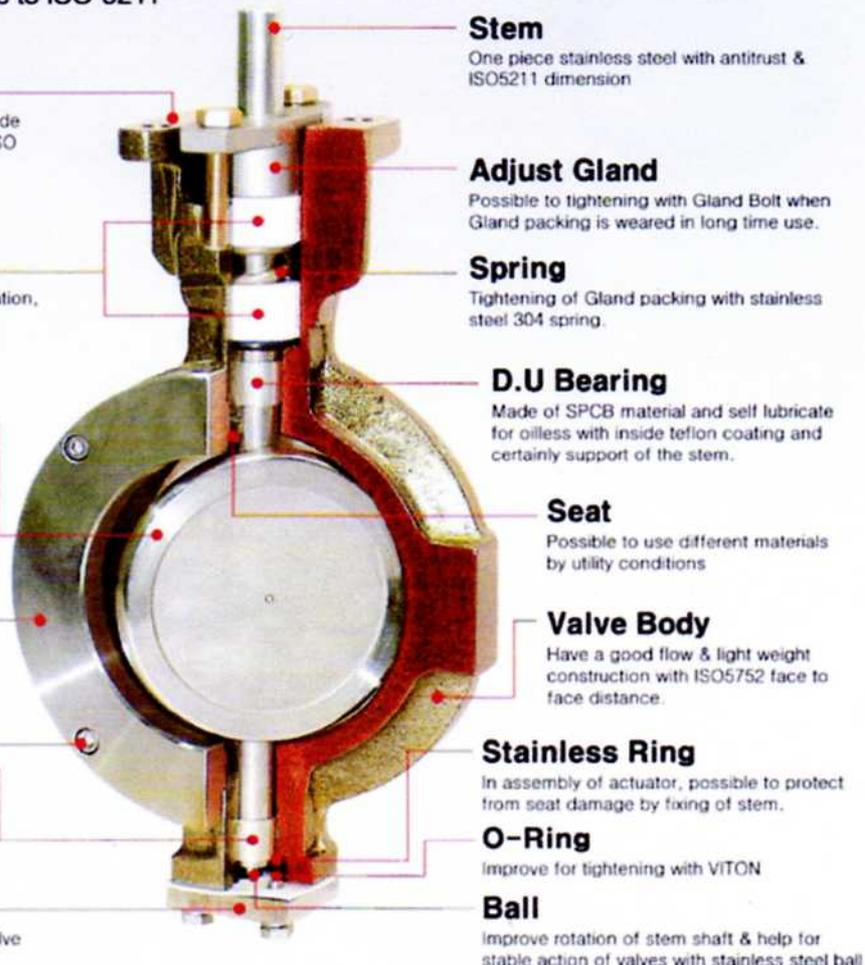
In assembly of actuator, possible to protect from seat damage by fixing of stem.

#### O-Ring

Improve for tightening with VITON

#### Ball

Improve rotation of stem shaft & help for stable action of valves with stainless steel ball



# DAE JUNG 3-MAX VALVE

## High Performance Butterfly Seat-Material

### EPDM-SEAT



- \* Thermal resistance, ozone resistance, medical & water resistance.  
Mainly applied at thrust type utility & powder.  
Maximum operation temperature is 120°C theory.

### PTFE-SEAT



- \* Application range is very wide like as chemical resistance wear resistance, acide resistance oil resistance, etc  
possible to use at Max pressure  
30kgf/cm<sup>2</sup> & temperature for -100°C ~ 240°C.

### RTFE-SEAT



- \* Components & characteristic are similar with PTFE.  
It mix additive to PTFE for increase of wear resistance, thermal resistance, Imbrication and raise the performance. This picture is for carbon mixed one and raise thermal resistance and lubrication.  
Max application temperature is 260 °C

### METAL-SEAT



- \* Mainly used at chemical resistance, acid resistance, thermal resistance, and good performance in high temperature & anti wearness.  
Material for Metal seat are used SS304, SS316, SS310S, inconel, etc and application temperature is -250°C~750°C

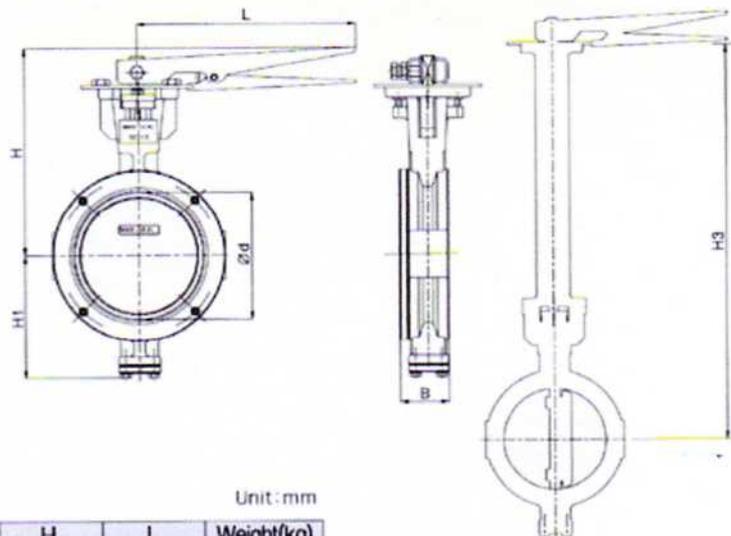
### FIRESAFE-SEAT



- \* It is composite structure of Metal-seat & PTFE-seat and used at dangerous utility by tight sealing.  
When firing, soft seat is burn out and Metal seat is remaining and stop the utility flow for safety function.

\* Daejung Valve seat leakage class is controlled by zero-bubble test.  
In case of Metal seat, keep ANSI class VI leakage.

# LOCK-LEVER TYPE MODEL : 3-SE 630-BL ( WAFER )



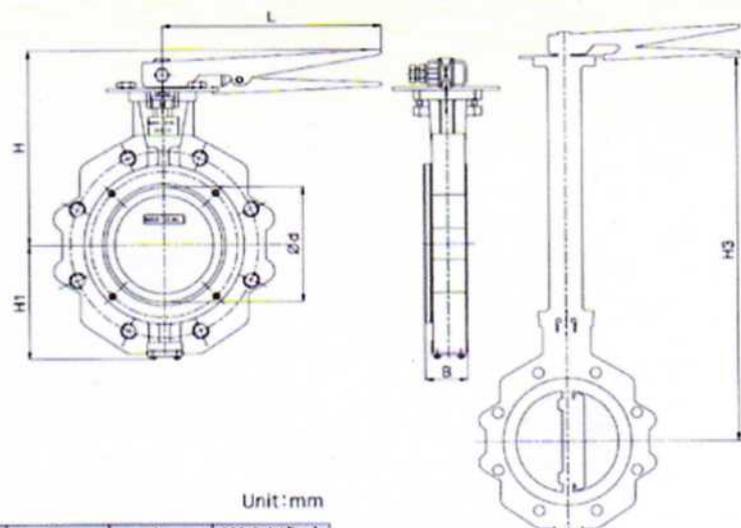
## Dimension

Unit : mm

SIZE	PART	B	d	H1	H	L	Weight(kg)
20A	25A	40	34	40	130	205	2.3
32A	40A	40	35	50	135	240	2.9
50A	2"	43	51	75	165		3.8
65A	2.5"	45	67	80	170		4.5
80A	3"	45	77	90	180		6.2
100A	4"	52	97	115	195		7.3
125A	5"	56	124	135	220		11
150A	6"	56	145	155	240		16.5

**Long Bonnet Lever**  
Special dimensions can be made to order upon your request.  
Please notify H3

# LOCK-LEVER TYPE MODEL : 3-SE 930-BL ( LUGGED )



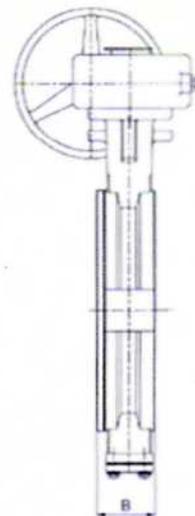
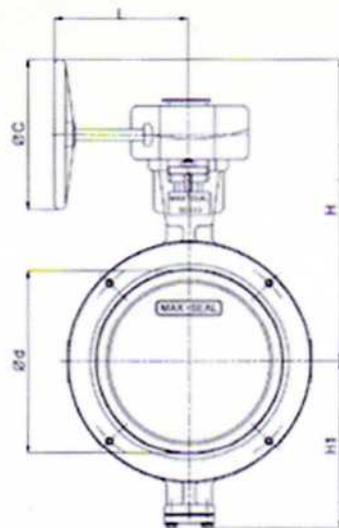
## Dimension

Unit : mm

SIZE	PART	B	d	H1	H	L	Weight(kg)
20A	25A	40	34	40	130	205	4
32A	40A	40	35	50	135	240	5
50A	2"	43	51	75	165		7
65A	2.5"	45	67	80	170		8.5
80A	3"	45	77	90	180		12.5
100A	4"	52	97	115	195		15
125A	5"	56	124	135	220		22
150A	6"	56	145	155	240		32

**Long Bonnet Lever**  
Special dimensions can be made to order upon your request.  
Please notify H3

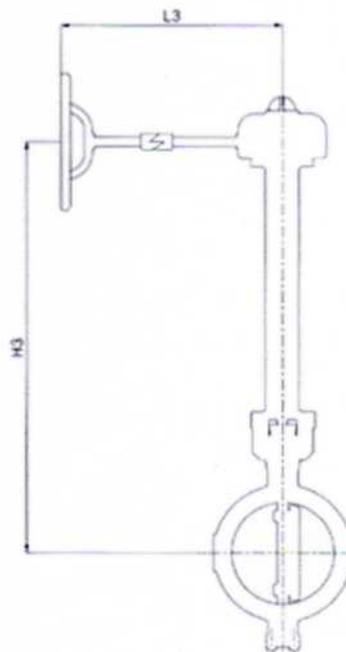
# WORM GEAR TYPE MODEL : 3-SE 630-BG ( WAFER )



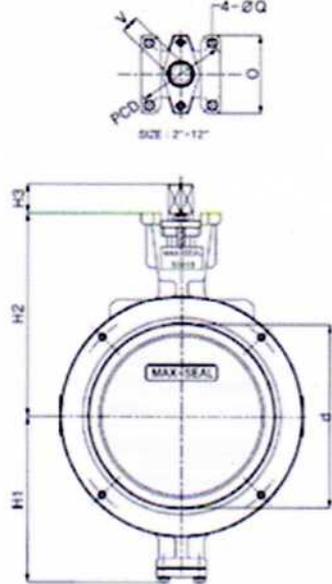
## Dimension

Unit: mm

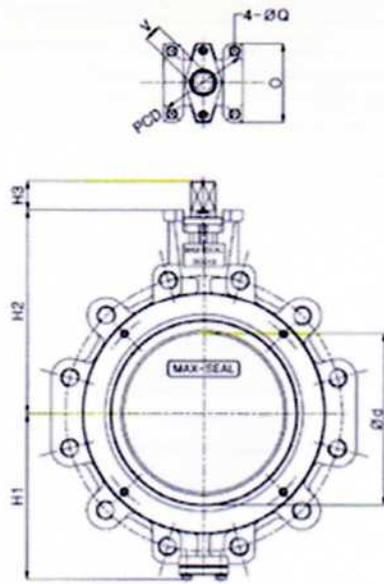
SIZE	PART	B	d	H1	H	L	C	Weight(kg)		
20A	3/4"	40	34	40	184	120	120	2.9		
25A	1"	40	34	40	184			2.9		
32A	1 3/4"	40	35	50	190			3.2		
40A	1.5"	40	35	50	190			3.2		
50A	2"	43	51	75	225			5.5		
65A	2.5"	45	67	80	230			6.5		
80A	3"	45	77	90	235			7		
100A	4"	52	97	115	280	130	180	9		
125A	5"	56	124	135	305			14		
150A	6"	56	145	155	350			16		
200A	8"	64	194	185	420	220	250	20		
250A	10"	64	244	220	440			45		
300A	12"	78	292	260	520			300	300	58
350A	14"	78	346	280	550					74
400A	16"	102	395	330	585	300	350	100		
450A	18"	114	442	350	595			124		
500A	20"	126	494	390	610			155		
550A	22"	150	540	410	620			202		
600A	24"	150	588	440	780			348		
650A	26"	160	638	510	1100	320	400	400		
700A	28"	170	688	530	1120			525		
750A	30"	190	735	550	1280			630		
800A	32"	190	776	560	1300			680		
850A	34"	200	835	600	1430	400	500	800		
900A	36"	200	875	650	1670			980		
1000A	40"	210	975	760	1720			1470		



**Long Bonnet Gear**  
 Special dimensions can be made to order upon your request.  
 Please notify H3 and L3 dimensions.



WAFER-BODY STYLE



LUGGED-BODY STYLE

### 3-SE 630, 930

SIZE		B	d	H1	H2	H3	O	V	W	Q	PCD	KEY
INCH	MM											
3/4	20	40	34	40	90	35	Ø 80	9•9	Ø 10	Ø 10	42•50	USER
1	25	40	34	40	90		Ø 90	11•11	Ø 13			
13/4	32	40	35	50	93						70	
1.5	40	40	35	50	93		Ø 19	Ø 25	Ø 14	102		
2	50	43	51	75	125						Ø 30	
2 1/2	65	45	67	80	130		Ø 40	Ø 45	Ø 16	165		
3	80	45	77	90	140						45	
4	100	52	97	115	155		60	120	22•22	Ø 14		
5	125	56	124	135	180						145	
6	150	56	145	155	205		70	Ø 50	Ø 24	Ø 16		
8	200	64	194	185	230	90					Ø 60	Ø 24
10	250	64	244	220	270		Ø 70	Ø 30	Ø 30	Ø 30		
12	300	78	292	260	325	Ø 90					Ø 30	Ø 30
14	350	78	346	280	360		Ø 90	Ø 30	Ø 30	Ø 30		
16	400	102	395	330	400	Ø 90					Ø 30	Ø 30
18	450	114	442	350	430		Ø 90	Ø 30	Ø 30	Ø 30		
20	500	126	494	390	480	Ø 90					Ø 30	Ø 30
22	550	150	540	410	495		Ø 90	Ø 30	Ø 30	Ø 30		
24	600	150	588	440	510	Ø 90					Ø 30	Ø 30
26	650	160	638	510	800		Ø 90	Ø 30	Ø 30	Ø 30		
28	700	170	688	530	820	Ø 90					Ø 30	Ø 30
30	750	190	735	550	940		Ø 90	Ø 30	Ø 30	Ø 30		
32	800	190	776	560	980	Ø 90					Ø 30	Ø 30
34	850	200	835	600	1050		Ø 90	Ø 30	Ø 30	Ø 30		
36	900	200	875	650	1200	Ø 90					Ø 30	Ø 30
40	1000	210	975	760	1350		Ø 90	Ø 30	Ø 30	Ø 30		

(We Reserve The Right to Alter The Information Without Notice)

## STANDARD SPECIFICATIONS

\*Valve Nominal Size

20mm-

\*Applicable Flange Standard

JIS10K, JIS20K, ANSI150, ANSI300, DIN16, DIN25

\*Max. Working Pressure

10kgf/cm<sup>2</sup>, 20kgf/cm<sup>2</sup>, 30kgf/cm<sup>2</sup>

\*Body Sheel Test

46kgf/cm<sup>2</sup> (Hydraulic)

\*Seat Leak Test

10K - 14 kgf/cm<sup>2</sup> ( WATER )

20K - 24 kgf/cm<sup>2</sup> ( WATER )

300PSI - 36 kgf/cm<sup>2</sup> ( WATER )

## STANDARD MATERIALS

Body	SCS13,SCS14,FCD45,SCPH2 Etcetera.
Disc	SCS13,SCS14,SCS16 Etcetera.
Stem	304,316,316L,630,Stainless Steel.
Seat Ring	EPDM,PTFE,RTFE,METAL,Fire-Safe Option
Gland.P	PTFE,Graphite Etcetera

\*Actuator

Lock Lever 20A-150A

Worm Gear 20A -

Pneumatic 20A -

Motor 20A -

Hydraulic 20A -

## 3-SE 630, 930 (WAFER-LUG) Cv Values vs Travel Position

SIZE		Angle of Opening						
INCH	MM	85	76	60	45	27	9.4	2.8
3 / 4-1	20.25	85	76	60	45	27	9.4	2.8
14/3-1.5	32.40	87	78	62	46	27.5	9.6	2.9
2	50	95	85	68	51	30	10.5	3.2
2 1/2	65	156	140	112	84	50	17	5.5
3	80	275	247	197	147	88	30	9
4	100	485	400	320	240	144	50	15
5	125	795	715	572	430	258	90	27
6	150	1170	1055	844	633	380	133	40
8	200	2210	1990	1590	1195	715	250	75
10	250	3320	2990	2400	1800	1080	378	113
12	300	5120	4610	3680	2760	1650	580	174
14	350	6150	5540	4430	3765	2250	790	235
16	400	8450	7650	6120	4590	2970	1040	312
18	450	11200	11000	8800	6600	3960	1390	415
20	500	15400	14000	11200	8400	5040	1760	520
22	550	19400	17800	14240	10680	6410	2240	670
24	600	22700	21200	16960	12720	7630	2670	800
26	650	26500	23900	19120	14340	8600	3130	930
28	700	32700	29800	23840	17880	10720	3750	1120
30	750	35500	32000	25600	19200	11520	4050	1210
32	800	43700	39700	31760	23820	14300	5000	1500
34	850	54300	48900	39120	29340	17600	6160	1840
36	900	58800	53200	42560	31920	19150	6710	2010
40	1000	78600	71000	56800	42600	25560	8950	2680

							
Full Open	70°	60°	50°	40°	30°	20°	10°

## RATED Cv

The Volume of Water in United States Gallons Per Minute That Will Pass Through a Given Valve Opening With a Pressure Drop of 1 Pound Per Square Inch. (Water at Temp=60 Deg.f)

