



Cat.no.:E-GGC



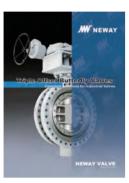
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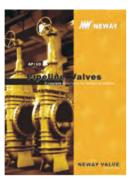
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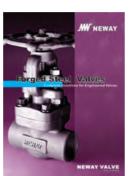
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Cat.no.:E-TOV



Cat.no.:E-PLV

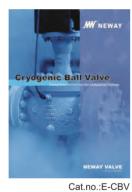


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Cat.no.:E-DAV







Cat.no.:E-PV



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## MNEWAY

### Concentric Butterfly Valve



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#### **Complete Solutions for Industrial Valves**

As a global leader of valve manufacturing, Neway(SSE:603699) is dedicated to the production, research, and development of industrial valves. Neway is committed to providing complete valve solutions to all industries through advanced engineering and innovation.

Neway's product line includes Ball, Butterfly, Gate, Globe, Check, Nuclear, Control, Subsea and Safety valves. Our high quality standards and innovative ability are recognized by many global end users and EPCs. Neway valves are utilized in a wide variety of industries and working conditions such as Refining, Chemical, Coal Chemical, Offshore(including subsea), Air Separation, LNG, Nuclear Power, Power Generation, and Pipeline Transmission applications.

#### **Global Facilities & Service**

Neway has developed a sophisticated multi-plant management system operating one valve assembly plant, one API6A valve plant, three foundries, and one R&D center. Our Largest assembly plant was expanded in 2013, and it now covers 230,000 square meters.

Advanced software (ANSYS, FE-Safe, CF-Design, Siemens PLM and NX) is applied here at Neway for the Research & Development of products. We use SAP to control the traceability and status of all products during the manufacturing process. In order to ensure the safety, eco-friendliness, and reliability of our products, we use the most advanced fire-safe, cryogenic, high pressure, and fugitive emission test equipment.

As part of Neway's global strategy, to provide better service to our customers, we have established our overseas subsidiaries in USA, Netherlands, Italy, Singapore and Dubai along with over 80 agents and distributors worldwide.

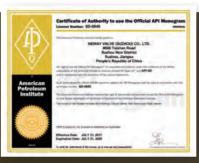
#### **High Quality, High Value**

Neway is dedicated to the pursuit of "Zero Defect". We maintain a quality management system that encompasses our entire operation from order entry, to final inspection. Through Neway's continuous efforts, our products have achieved industrial certificates including ISO 9001, API 6A, API 6D, CE/PED, ASME N & NPT, TA-Luft, ABS, CU-TR and Fire-Safe approvals.

#### **Quality Commitment**

#### NORSOK





The second process of the process of

TA Luft

API 6D



ISO 9001



ADMINISTRATION OF A PROPERTY O

Certificate of MANUFACTURING ASSESSMENT

Certificate of MANUFACTURING ASSESSMENT

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eway recognizes the importance of valve quality for the safety and protection of personnel health and property. It is our quality commitment to focus our resources to provide our customers with first class products at a competitive price, designed, manufactured, inspected and tested in accordance with our customers specifications and complying with all international standards.

Current industrial standards do not always take into consideration the likelihood and consequences of possible deterioration in service, related to specific service fluids or the external environments in which they

operate. Therefore we request that our customers communicate with our engineering department. Our valve optimization program continuously strives to provide valves that withstand deterioration in service, and ensure safety over the valves expected lifetime.

Fire Safe Test Certificate

1

300 (1)













**C**00



Neway figure numbers are designed to cover essential features.

When ordering, please show figure number to avoid misunderstanding of your requirements.

However a detailed description must accompany with any special orders.

Following descriptions provide a basic guideline in valve specification:

① Valv	e Size									
in	2	2-1/2	3	4	5	6	8	10	12	14
mm	50	65	80	100	125	150	200	250	300	350
in	16	18	20	24	28	30	32	36	40	48
mm	400	450	500	600	700	750	800	900	1000	1200

② Valve Series Number				
Symbol	Valve type			
D	Butterfly Valve			

③ Operator	
3	Gear operator
9	Electric actuator
6	Pneumatic actuator
7	Hydraumatic actuator

End Connection	
7	Wafer
3	Lug
4	Double-Flange

⑤ Valve Code	
Symbol	
1	Concentric Butterfly Valve

Seat Material	
Symbol	
X	Rubber

⑦ ANSI Class					
Code	Class(MPa)				
6	0.6				
10	1				
16	1.6				
25	2.5				

Body Material	
Material	ASTM Ref.
Z04	ASTM A395
C00	ASTM A216 WCB
L20	ASTM A352 LCB
L21	ASTM A352 LCC
S01	ASTM A351 CF8M
S00	ASTM A351 CF8
S03	ASTM A351 CF3M
S02	ASTM A351 CF3
D01	ASTM A890 4A

Trim Code							
Concentric		First Number		Second Number	Third Number		
		Stem		Disc		Seat	
	Code	Material	Code	Material	Code	Material	
	1	F416	2	CF8	1	EPDM	
	2	F304	3	CF8M	2	NBR	
	3	F316	4	M30-C	3	VITON	
Butterfly Valve	4	MONEL K500	5	ZQAL9-4	Α	EPDM-1	
Buttorny varvo	5	17-4PH	8	C95500			
	6	1Cr13	Α	ZQAL9-2			
	7	F316L	С	CF3M			
	8	F304L	J	904L-ZZ			
	9	F51	K	A890 4A			
	С	3Cr13	Е	A890 6A			
	L	1Cr17Ni8	N	C95800			

Note:other materials upon request















Neway figure numbers are designed to cover essential features.

When ordering, please show figure number to avoid misunderstanding of your requirements.

However a detailed description must accompany with any special orders.

Following descriptions provide a basic guideline in valve specification:

① Valv	e Size									
in	2	2-1/2	3	4	5	6	8	10	12	14
mm	50	65	80	100	125	150	200	250	300	350
in	16	18	20	24	28	30	32	36	40	48
mm	400	450	500	600	700	750	800	900	1000	1200

mm 4	00 450	500 600	700	750	800	900	1000	1200
② Valve Ser	ies Number	③ ANSI Clas	S			End Cor	nnection	
Symbol	Valve type	Code	1	3		W	Waf	er
Т	Butterfly Valve	Class(LB)	150	3	00	L R	Lu Double-	0

⑤ Operator	
	Lever
G	Gear operator Pneumatic actuator
Р	
Н	Hydraumatic actuator Electric actuator
M	Electric actuator

Body Material	
Material	ASTM Ref.
Z04	ASTM A395
C00	ASTM A216 WCB
L20	ASTM A352 LCB
L21	ASTM A352 LCC
S01	ASTM A351 CF8M
S00	ASTM A351 CF8
S03	ASTM A351 CF3M
S02	ASTM A351 CF3
D01	ASTM A890 4A

Timi Code								
Concentric		First Number		Second Number	Third Number			
		Stem		Disc	Seat			
	Code	Material	Code	Material	Code	Material		
	1	F416	2	CF8	1	EPDM		
	2	F304	3	CF8M	2	NBR		
	3	F316	4	M30-C	3	VITON		
Concentric butterfly valve	4	MONEL K500	5	ZQAL9-4	Α	EPDM-1		
concenting suitemy rune	5	17-4PH	8	C95500				
	6	1Cr13	Α	ZQAL9-2				
	7	F316L	С	CF3M				
	8	F304L	J	904L-ZZ				
	9	F51	K	A890 4A				
	С	3Cr13	E	A890 6A				
	L	1Cr17Ni8	N	C95800				

Note:other materials upon request

#### Concentric Butterfly Product Introduction

Soft seat butterfly widely apply to all kinds of industrial on-off control system. Compared to normal globe valve and ball valve, it has many advantages, like light weight, low cost. With rapidly development of rubber material industry, soft seat butterfly not only is used to all kinds of water draining system, but also replaced to some flow control system by steps.



#### Product Range

Size	2"~72"(DN50~DN1800)
Rating	ANSI125~150;PN6~16
Temperature Range	*-35 °C ~+200 °C
Body Material	Cast Iron, Steel, Stainless Steel
Rubber Material	EDPM,NBR,viton
End Connection	Wafer,Lug,Double-Flange

#### Rubber Seat Temperature Range

Material	Temperature Range
NBR	'-20℃~+100℃
EPDM	'-35℃~+135℃
VITON	'-20°C ~+200°C

#### **Normal Application**

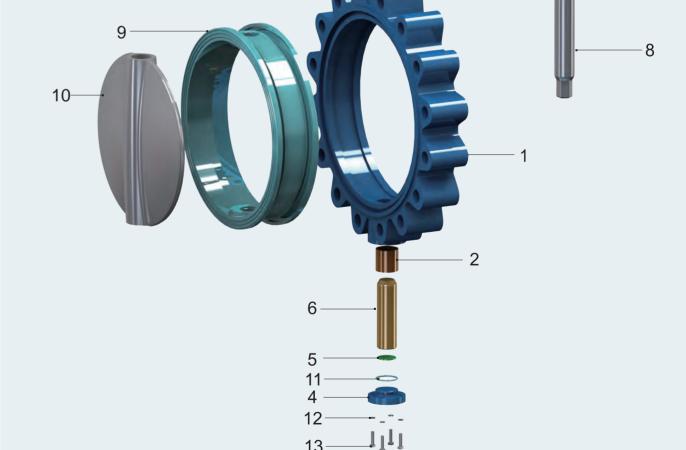
- Water Pipeine
- Refinery
- Power Plant
- Ship Building Industry
- Petrochemical
- Paper Industry





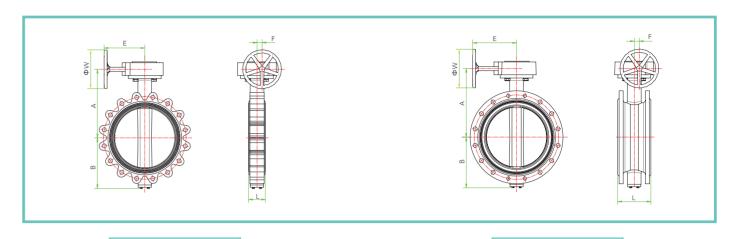
Concentric butterfly valve series are safety and low cost products in Neway corporation For the passage install rubber seat, it can apply to most of corrosive medium. So no medium contact with body and the material of it is steel or cast iron. It is one of most economic valve under low and medium pressure.

NO.	Part	Num	NO.	Part	Nun
1	Body	1	9	Seat	1
2	Bearing	3	10	Disc	1
3	Blowout Proof Block	1	11	O-rings	1
4	Lower Gland Flange	1	12	Gasket	4
5	Thrust Gasket	1	13	Screw	4
6	Hub Shaft	1	14	Screw	2
7	Retainer Ring	1	15	Key	1
8	Stem	1	16	Seal Ring	1
			2	-	3 7 16
					2



NO.	Part	Num	NO.	Part	Num
1	Body	1	9	O-rings	1
2	Disc	1	10	Bearing	3
3	Stem	1	11	Retainer Ring	1
4	Hub Shaft	1	12	Blowout Proof Block	1
5	Thrust Gasket	1	13	Key	1
6	Lower Gland Flange	1	14	Screw	2
7	Gasket	4	15	Seal Ring	1
8	Screw	4			
2					—14 —15 —15 —11 —10

Design Feature



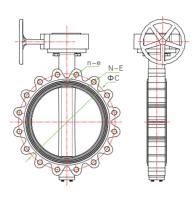
ancion and Weight

lug

double	flange

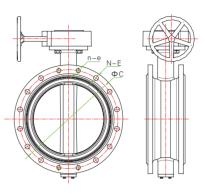
Out-Dimension and Weight  SIZE L Height Lever Length Gear Dimension Weight																									
SI	ZE			L	He	ight	Lever Length	Gea	ar Dimens	sion		Wei	ght	Lover	Coor										
Valve	e Size	Wafer Lug		Wafer Lug		Wafer Lug		Double-Flange	Α	В	D	Е	F	W	Wafer	Lug	Double-Flange	Lever Type	Gear Type						
In	mm	mı	m	mm	mm	mm	mm	mm	mm	mm	Kg	Kg	Kg												
2	50	43		108	226	93	195	*	*	*	3	4.5	8	FF11	*										
2-1/2	65	46		46		46		112	240	102	195	*	*	*	4	5	11	FF11	*						
3	80	46		114	246	108	195	*	*	*	5	6	14	FF11	*										
4	100	52		52		52		52		52		52		127	280	127	270	*	*	*	6	9	19	FF14	*
5	125	56	6	140	293	139	270	*	*	*	8	12	24	FF14	*										
6	150	56	6	140	306	151	270	*	*	*	9	13	26	FF14	*										
8	200	60	)	152	291	195	*	235	63	300	26	31	60	*	SD75										
10	250	68	3	165	336	228	*	235	63	300	35	41	80	*	SD75										
12	300	78		178	383	270	*	238	81	300	48	64	102	*	SD120										
14	350	78	3	190	411	285	*	270	80	400	54	80	142	*	SW10										
16	400	10	2	216	450	322	*	270	80	400	120	135	185	*	SW10										
18	450	11	4	222	470	339	*	420	120	500	130	154	223	*	SW20										
20	500	12	.7	229	528	380	*	420	120	500	169	214	262	*	SW20										
24	600	15	4	267	613	465	*	460	126	600	264	316	385	*	SW40										
28	700	16	5	292	740	491	*	560	138	600	345	400	530	*	SW70										
32	800	19	0	318	835	588	*	560	138	600	540	630	790	*	SW70										
36	900	20	0	330	900	640	*	560	138	700	630	680	950	*	SW10										
40	1000	21	6	410	940	740	*	560	138	760	850	900	1320	*	SW18										
48	1200	27	6	470	989	810	*	650	171	760	1445	1700	1840	*	SW27										
56	1400	27	9	530	1141	940	*	690	231	760	1970	2320	2660	*	SW30										

Wafer



**End Connection Dimensions** 

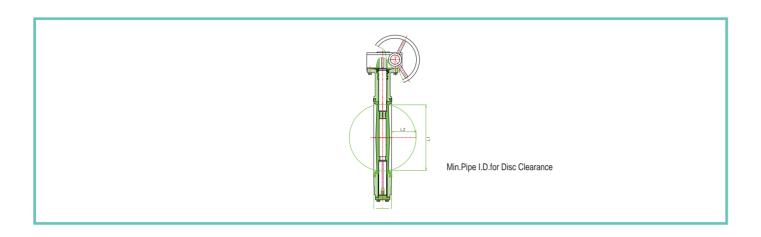
Lug



Double-Flange

#### **End Connection Dimensions**

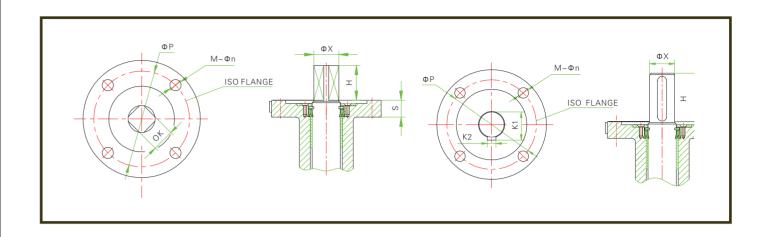
		Wafer							Lu	ıa							Double-	Flange							
SI	ZE		Ф	С			n-				N-	F		- <del>-</del>	n-	-е			N-	F			n-	e	
		PN6	PN10	PN16	150LB	PN6	PN10	PN16	150LB	PN6	PN10	PN16	150LB	PN6	PN10	PN16	150LB	PN6	PN10	PN16	150LB	PN6	PN10	PN16	150LB
In	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2	50	110	125	125	120.7	4-Ф14	4-Ф18	4-Ф18	4-Ф19	4-M12	4-M16	4-M16	4-5/8	*	*	*	*	4-Φ14	4-Ф18	4-Ф18	4-Ф19	*	*	*	*
2-1/2	65	130	145	145	139.7	4-Ф14	4-Ф18	4-Ф18	4-Ф19	4-M12	4-M16	4-M16	4-5/8	*	*	*	*	4-Ф14	4-Ф18	4-Ф18	4-Ф19	*	*	*	*
3	80	150	160	160	152.5	4-Ф18	4-Ф18	4-Ф18	4-Ф19	4-M16	8-M16	8-M16	4-5/8	*	*	*	*	4-Ф18	4-Ф18	4-Ф18	4-Ф19	*	4-M16	4-M16	*
4	100	170	180	180	190.5	4-Ф18	4-Ф18	4-Ф18	4-Ф19	4-M16	8-M16	8-M16	8-5/8	*	*	*	*	4-Ф18	4-Ф18	4-Ф18	8-Ф19	*	4-M16	4-M16	*
5	125	200	210	210	215.9	4-Ф18	4-Ф18	4-Ф18	4-Ф23	8-M16	8-M16	8-M16	8-3/4	*	*	*	*	4-Ф18	4-Ф18	4-Ф18	8-Ф22	4-M16	4-M16	4-M16	*
6	150	225	240	240	241.5	4-Ф18	4-Ф22	4-Ф22	4-Ф23	8-M16	8-M20	8-M20	8-3/4	*	*	*	*	4-Ф18	4-Ф22	4-Ф22	8-Ф22	4-M16	4-M20	4-M20	*
8	200	280	295	295	298.5	4-Ф18	4-Ф22	4-Ф22	4-Ф23	8-M16	8-M20	12-M20	8-3/4	*	*	*	*	4-Ф18	4-Ф22	8-Ф22	8-Ф22	4-M16	4-M20	4-M20	*
10	250	335	350	355	362	4-Ф18	4-Ф22	4-Ф26	4-Ф26	12-M16	12-M20	12-M24	12-7/8	*	*	*	*	8-Ф18	8-Ф22	8-Ф26	8-Ф22	4-M16	4-M20	4-M24	*
12	300	395	400	410	431.8	4-Ф22	4-Ф22	4-Ф26	4-Ф26	12-M20	12-M20	12-M24	12-7/8	*	*	*	*	8-Ф22	8-Ф22	8-Ф26	12-Ф26	4-M20	4-M20	4-M24	*
14	350	445	460	470	476.3	4-Ф22	4-Ф22	4-Ф26	4-Ф29	12-M20	16-M20	16-M24	12-1	*	*	*	*	8-Ф22	8-Ф22	12-Ф26	12-Ф29	4-M20	4-M20	4-M24	*
16	400	495	515	525	539.8	4-Ф22	4-Ф26	4-Ф30	4-Ф29	16-M20	16-M24	16-M27	16-1	*	*	*	*	12-Ф22	12-Ф26	12-Ф30	16-Ф29	4-M20	4-M24	4-M27	*
18	450	550	565	585	577.9	4-Ф22	4-Ф26	4-Ф30	4-Ф32	16-M20	20-M24	20-M27	16-1-1/8	*	*	*	*	12-Ф22	16-Ф26	16-Ф30	16-Ф32	4-M20	4-M24	4-M27	*
20	500	600	620	650	635	4-Ф22	4-Ф26	4-Ф33	4-Ф32	20-M20	20-M24	20-M30	16-1-1/8	*	*	*	*	16-Ф22	16-Ф26	16-Ф33	16-Ф32	4-M20	4-M24	4-M30	4-1-1/8
24	600	705	725	770	749.3	4-Ф26	4-Ф30	4-Ф36	4-Ф34	20-M24	20-M27	20-M33	20-1-1/4	*	*	*	*	16-Ф26	16-Ф30	16-Ф36	16-Ф35	4-M24	4-M27	4-M33	4-1-1/4
28	700	810	840	840	863.4	4-M24	4-M27	4-M33	4-1-1/4	20-M24	20-M27	20-M33	24-1-1/4	4-M24	4-M27	4-M33	4-1-1/4	20-Ф26	20-Ф30	20-Ф36	24-Ф35	4-M24	4-M27	4-M33	4-1-1/4
32	800	920	950	950	978	4-M27	4-M30	4-M36	4-1-1/2	20-M27	20-M30	20-M36	24-1-1/2	4-M27	4-M30	4-M36	4-1-1/2	20-Ф30	20-Ф33	20-Ф39	24-Ф41	4-M27	4-M30	4-M36	4-1-1/2
36	900	1020	1050	1050	1086	4-M27	4-M30	4-M36	4-1-1/2	20-M27	24-M30	24-M36	28-1-1/2	4-M27	4-M30	4-M36	4-1-1/2	20-Ф30	24-Ф33	24-Ф39	28-Ф41	4-M27	4-M30	4-M36	4-1-1/2
40	1000	1120	1160	1170	1200	4-M27	4-M33	4-M39	4-1-1/2	24-M27	24-M33	24-M39	32-1-1/2	4-M27	4-M33	4-M39	4-1-1/2	24-Ф30	24-Ф36	24-Ф42	32-Ф41	4-M27	4-M33	4-M39	4-1-1/2
48	1200	1340	1380	1390	1422.5	4-M30	4-M36	4-M45	4-1-1/2	28-M30	28-M36	28-M45	40-1-1/2	4-M30	4-M36	4-M45	4-1-1/2	28-Ф33	28-Ф39	28-Ф48	40-Ф41	4-M30	4-M36	4-M45	4-1-1/2
56	1400	1560	1590	1590	1651	8-M33	8-M39	8-M45	4-1-3/4	28-M33	28-M39	28-M45	44-1-3/4	8-M33	8-M39	8-M45	4-1-3/4	28-Ф36	28-Ф42	28-Ф48	44-Ф48	8-M33	8-M39	8-M45	4-1-3/4



Min.Pipe I.D.for Disc Clearance

#### Min.Pipe I.D.for Disc Clearance

			L1	L2			
S	IZE	wafer	lug	wafer	lug		
In	mm	mm	mm	mm	mm		
2	50	3	30.3	4.8			
2-1/2	65	4	5.1	9	2		
3	80	6	34.1	16	5.5		
4	100	Ş	0.1	26	3.0		
5	125	1	10.5	34	4.0		
6	150	1	45.4	49	0.9		
8	200	1	94.2	71.7			
10	250	2	42.5	92.0			
12	300	2	92.7	112.5			
14	350	3.	26.0	128.6			
16	400	3	77.5	144.5			
18	450	4.	25.4	163	3.2		
20	500	4	74.9	183	2.3		
24	600	5	73.3	21	9.8		
28	700	6	46.4	25	5.3		
32	800	7	38.3	28	6.2		
36	900	8	29.2	32	6.5		
40	1000	9	40.5	374.5			
48	1200	11	25.7	441.5			
56	1400	13	354.6	552.0			



#### Dimensions Of Top Flange

SI	ZE	Н	S	K	K2	K1	ФΧ	ISO5211	ФР	M-Фn
in	mm	mm	mm	mm	mm	mm	mm	1303211	ΨΓ	IVI-ΨΠ
2	50	24	15	11	*	*	14	F05	50	4-Ф6.6
2-1/2	65	24	15	11	*	*	14	F05	50	4-Ф6.6
3	80	24	15	11	*	*	14	F05	50	4-Ф6.6
4	100	24	15	14	*	*	18	F07	70	4-Ф9.5
5	125	24	15	14	*	*	18	F07	70	4-Ф9.5
6	150	24	15	14	*	*	20	F07	70	4-Ф9.5
8	200	24	15	17	*	*	24	F10	102	4-Ф11.5
10	250	26	17	22	*	*	30	F10	102	4-Ф11.5
12	300	29	20	27	*	*	35	F12	125	4-Ф11.5
14	350	52	20	*	10	38	35	F12	125	4-Ф14
16	400	60	20	*	12	43	40	F16	165	4-Ф22
18	450	73	25	*	14	48.5	45	F16	165	4-Ф22
20	500	82	25	*	14	53.5	50	F16	165	4-Ф22
24	600	103	25	*	18	64	60	F16	165	4-Ф22
28	700	110	30	*	20	74.5	70	F25	254	8-Ф18
32	800	120	30	*	22	85	80	F25	254	8-Ф18
36	900	130	30	*	22	85	80	F25	254	8-Ф18
40	1000	145	35	*	28	106	100	F25	254	8-Ф18
48	1200	160	35	*	28	116	110	F30	298	8-Ф22
56	1400	200	40	*	32	137	130	F35	356	8-Ф33

SIZ	ZE	PI	N10	PN1	16
in	mm	wet	dry	wet	dry
2	50	9	12	12	16
2-1/2	65	13	18	18	24
3	80	20	27	30	40
4	100	40	50	55	70
5	125	50	65	75	95
6	150	80	104	110	143
8	200	135	185	200	270
10	250	220	300	330	440
12	300	330	430	490	650
14	350	500	680	670	900
16	400	710	950	950	1300
18	450	980	1300	1265	1650
20	500	1230	1640	1825	2410
24	600	1850	2440	2750	3600

#### note:

1:the data calculate by normal design pressure

2:WET: lubricant liquid medium as water, sea-water, oil and temperature from -4.5  $^{\circ}$  to 93  $^{\circ}$ , internal valve have no sediment and chemical corrosion ,everyday the operation at least keep one time

DRY: all kinds of dry gas

3:choose actuator by 1.2~1.4 times safety factor

4:the torque out of table, contact with manufacturer

5:if condition different from above, referring to correction factor

x1.2  $\bigstar$  the operation number is less than one time

★ dry condition(wear-resisting particle,concrete) x1.7

#### Flow Coeficient (CV value)

SIZE		Disc Opening Angle								
In	DN	10°	20°	30°	40°	50°	60°	70°	80°	90°
2"	50	9	22	33	48	70	99	143	198	220
2-1/2"	65	13	32	48	70	102	150	224	288	320
3"	80	20	50	75	110	160	235	350	450	500
4"	100	33	82	123	180	262	385	574	738	820
5"	125	52	130	195	286	416	611	910	1170	1300
6"	150	76	190	285	418	608	893	1330	1710	1900
8"	200	132	330	495	726	1056	1551	2310	2970	3300
10"	250	216	540	810	1188	1728	2538	3780	4860	5400
12"	300	320	800	1200	1760	2560	3760	5600	7200	8000
14"	350	400	1000	1500	2200	3200	4700	7000	9000	10000
16"	400	520	1300	1950	2860	4160	6110	9100	11700	13000
18"	450	720	1800	2700	3960	5760	8460	12600	16200	18000
20"	500	880	2200	3300	4840	7040	10340	15400	19800	22000
24"	600	1200	3000	4500	6600	9600	14100	21000	27000	30000

#### **Product Warranty**

#### **NEWAY Head Office**

Covers area: 2,295sqm Office area: 6,885sqm

Founded in 2014



#### **Neway Manufacturing Base**

Main Products: Ball, Valve,Gate Valve, Globe Valve, Check Valve, Forged Steel Valve, Butterfly Valve

Covers area: 230,000sqm Work shop: 140,061sqm

Expanded in 2013



#### **NEWAY Foundry (Suzhou)**

Main products: Sand Casting Covers area: 112,500sqm Work shop: 134,000sqm

Founded in 2008



#### **NEWAY Foundry (Dafeng)**

Main Products: Lost wax investment casting Covers area: 46,000sqm Work shop: 12,000sqm

Founded in 2004



#### **NEWAY Foundry (Dafeng)**

Main Products: Lost wax investment casting Covers area: 40,000sqm Work shop: 20,000sqm

Founded in 2008



Seller will replace without charge or refund the purchase price of products provided by Seller which prove to be defective in material or workmanship, provided in each case that the product is properly installed and is used in the service for which Seller recommends it and that written claim, specifying the alleged defect, is presented to the Seller within 18 months from the date of shipment or 12 months after installation, whichever occurs first. Seller shall in no event bear any labor, equipment, engineering or other costs incurred in connection with repair of replacement. The warranty stated in this paragraph is in lieu of all other warranties, either expressed or implied. With respect to warranties, this paragraph states Buyer's exclusive remedy and seller's exclusive liability.