

SECA BUTTERFLY VALVE WAFER AND LUG TYPE

APPLICATION

Water, Seawater, Air, Oil

Working Pressure 10 kg/cm (150 PSI)

Test Pressure Body 20 kg/cm (300 PSI)

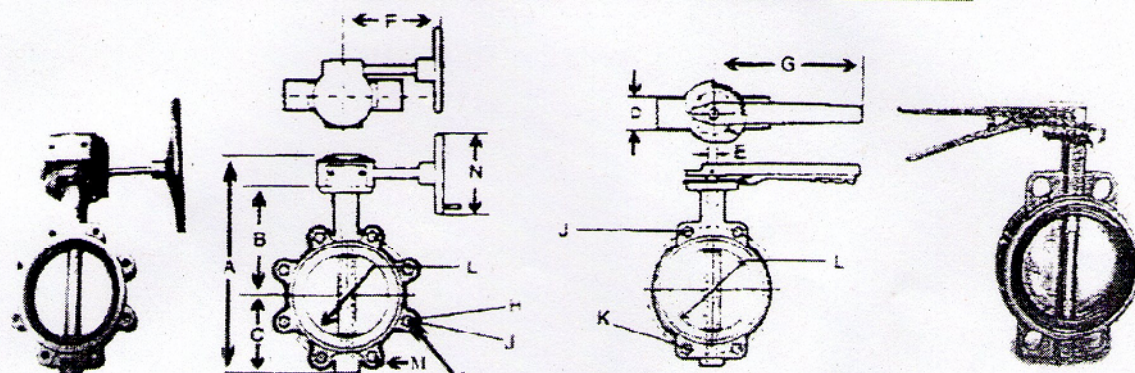
Seat: 12kg/cm (170 PSI)

Wafer Type Model: BFV-100-W

Lug Type Model: BFV-200-L

Flange: 10 K, ANSI, PN10, 16

ITEM	PART	MATERIALS LIST	DESCRIPTION	
			JIS	ASTM
1	BODY	CAST IRON, SS 316	FC200 SCS14	A216 Class B
2	SEAT		EPDM, PTFE, NBR	
3	DISC	STAINLESS DUCTILE	SCS13 SCS14 FCD 450	A351 CF8 A351 CF8 M A536
4	STEM	STAINLESS	SCS13 SCS14	A351 CF8 A351 CF8 M
5	TAPER PIN	STAINLESS	SCS13	A351 CF8
6	LEVEL HANDLE	CAST IRON	FC200 SCS14	A216 Class B



Dimensions

Model: BFV-200-L

Model: BFV-100-W

Size/mm	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750
A	270	295	308	346	371	397	492	540	622	630	630	710	911	1043	1216	1375
B	162	175	181	200	213	225	260	292	332	368	400	422	479	562	624	670
C	76	89	95	114	127	140	197	203	241	267	310	328	368	410	520	550
D	42	44	45	52	54	57	61	67	75	78	89	105	135	152	163	180
E	13	13	13	16	19	19	22	29	32	32	33	34	41	51	55	62
F	178	178	178	178	178	178	254	254	254	254	254	254	254	360	360	380
G	279	279	279	279	279	279	356	356		403	489	530	567			
J	17	17	17	17	21	21	21	24	24	24	24	24	24	30	30	34
K	121	140	152	191	216	241	289	362	432	476	539	578	635	749	920	920
L	51	64	76	102	127	152	203	254	305	333	390	440	577	685	795	745
M	16	16	16	16	19	19	19	22	22	22	22	22	22	30	30	30
N	152	152	152	152	152	152	254	254	254	254	254	254	254	455	560	711
Hole																
BFV-100-W	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
BFV-200-L	4	4	4	8	8	8	8	12	12	12	16	16	20	20	28	28
Weights																
BFV-100-W	2.2	3.1	3.6	4.9	6.8	8.6	15.3	26.7	42.6	48	65	79	91	95	150	236
BFV-200-L	3.1	3.6	4	7.7	9.5	11.33	19	33.1	50.7	55	71	83	94	110	185	204

SECA BUTTERFLY VALVE

With Pneumatic Actuator BFV-P-100 W/L

TYPE: WAFER BODY & LUG BODY

MATERIAL: C.I. FC-20

FLANGES: ANSI 125/150LB, JIS 10K,
B.S. TABLE E, DIN

SIZE: WAFER TYPE 2" THRU 24"

LUG TYPE 2" THRU 12"

FLUID APPLICATION:

WATER, SEAWATER, AIR, OIL

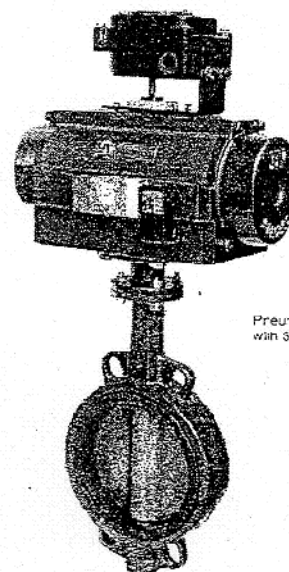
WORKING PRESSURE:

10 KG/CM²(150PSI)

TEST PRESSURE:

BODY 20 KG/CM² (300 PSI)

SEAT 12 KG/CM² (170 PSI)



Pneumatic actuator
with Solenoid valve

MATERIALS LIST

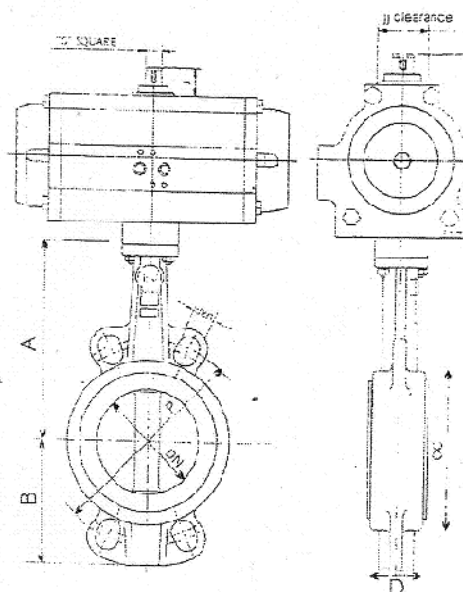
N.O.	PART/NAME	MATERIALS
1	BODY	CAST IRON, STAINLESS 304, 316
2	SEAT	EPDM NBR PTFE
3	STEM	STAINLESS STEEL
4	DISC	STAINLESS 304 STAINLESS 316 BRONZE DUCTILE
5	TAPER PIN	STAINLESS STEEL
6	BUSHING	NYLON
7	O-RING	EPDM, NBR

Size *Seating Torque (Nm)

mm (Normal Condition)

Wet Dry

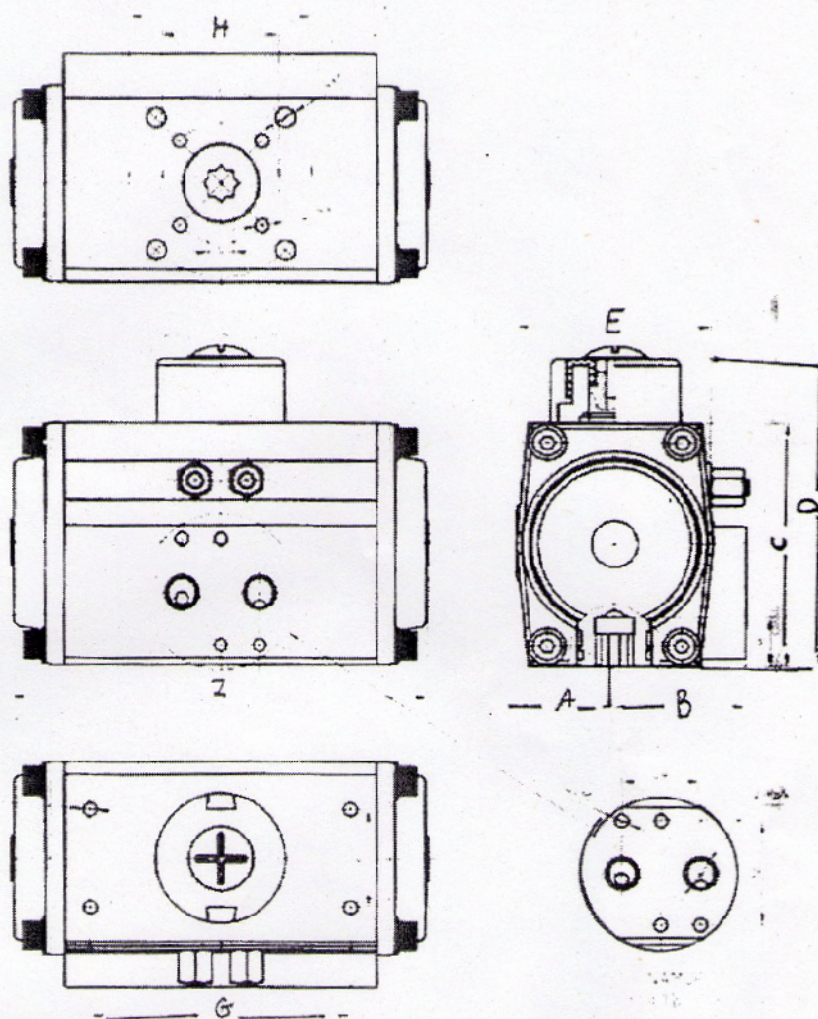
50	15	34
65	22	45
80	25	55
100	41	90
125	72	150
150	100	198
200	250	511
250	443	894
300	552	1055



SECA Control Valve

Pneumatic Actuator Double Acting

Double Acting Dimension



Dimension Table

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Z	Φ	Air Connection
10052DA	30	40	74.3	95	59	30	80	±36		M5×8		8	15	135	±40	NAMUR Rp1/4"
10063DA	36	44	88	107.5	74	30	80	±50	±70	M6×10	M8×13	9	15	142	±40	NAMUR Rp1/4"
10075DA	42	50	100.5	121	80.5	30	80	±50	±70	M6×10	M8×13	11	18	168	±40	NAMUR Rp1/4"
10083DA	46	57	108.5	129.7	88	30	80	±50	±70	M6×10	M8×13	11	18	188	±40	NAMUR Rp1/4"
10092DA	50	56	117	137	96.5	30	80	±50	±70	M6×10	M8×13	17	23	192	±40	NAMUR Rp1/4"
10105DA	57.5	64	133	153	109.5	30	80	±70	±102	M8×13	M10×16	22	26	258	±40	NAMUR Rp1/4"
10127DA	68.5	69	161	181	132	30	130	±70	±102	M8×13	M10×16	22	26	310	±55	NAMUR Rp1/4"
10140DA	75	77	180	200	137.5	30	130	±102	±125	M10×16	M12×20	27	31	370	±55	NAMUR Rp1/4"
10160DA	86	78	198	218	158	30	130	±102	±125	M10×16	M12×20	27	31	397	±55	NAMUR Rp1/4"
10210DA	113	105	255	285	210	30	130		±140		M16×25	36	40	498	±88	NAMUR Rp1/4"
10255DA	137	130	302	332	245	30	130		±165		M20×25	46	50	697	±88	NAMUR Rp1/4"

SECA Control Valve

Pneumatic Actuator Double Acting

Double Acting Torque List and Reference Selection

Torque List

Model	Torque Nm	Air Pressure Bar										
		2	2.5	3	3.5	4	4.5	5	5.5	6	7	8
10052DA	8.4	10.5	12.6	14.7	16.8	18.9	21.0	23.1	25.2	29.4	33.6	
10063DA	12.4	15.5	18.6	21.7	24.8	27.9	31.0	34.1	37.2	43.4	49.6	
10075DA	22.3	27.9	33.5	39.1	44.6	50.2	55.8	61.4	67.0	78.1	89.3	
10083DA	30.3	37.9	45.4	53.0	60.6	68.1	75.7	83.3	90.8	106.0	121.1	
10092DA	42.5	53.2	63.8	74.4	85.0	95.7	106.3	116.9	127.6	148.8	170.1	
10105DA	69.2	86.6	103.9	121.2	138.5	155.8	173.1	190.4	207.7	242.3	277.0	
10127DA	121.6	152.1	182.5	212.9	243.3	273.7	304.1	334.5	364.9	425.7	486.6	
10140DA	184.6	230.8	277.0	323.1	369.3	415.4	461.6	507.8	553.9	646.2	738.6	
10160DA	241.2	301.5	361.7	422.0	482.3	542.6	602.9	663.2	723.5	844.1	964.6	
10210DA	498.5	623.2	747.8	872.4	997.0	1121.7	1246.3	1370.9	1495.6	1744.8	1994.1	
10255DA	1162.3	1452.9	1743.5	2034.1	2324.6	2615.2	2905.8	3196.4	3487.0	4068.1	4649.0	

TYPE: Double acting pneumatic actuator.

The suggested safe factor for double acting actuators under normal working conditions is 20%-30%.

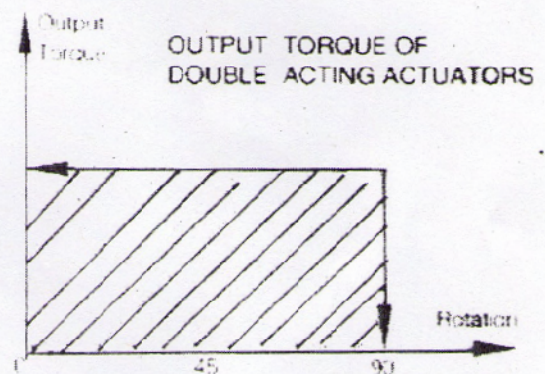
Example:

The torque needed by valve=100 N.m

The torque considered safe factor=100:(1+30%)=130 N.m

Air supply pressure=5Bar

According to the above table, we can choose the minimum model is 10105DA.



Reference Selection

Model	If Air Pressure 5 Bar, Torque (Nm)	Reference Valve Size (mm)	Reference Valve Size (inch)	Valve Torque P=10Bar	Valve Torque P=16Bar	Shaft Diameter	Standard ISO 5211
10052DA	21.0	40	1.5	8	9	8	F07
10063DA	31.0	50	2.0	10	11	8	F07
10075DA	55.8	65	2.5	14	20	8	F07
10083DA	75.7	80	3	18	29	9	F07
10092DA	106.3	100	4	31	47	11	F07
10105DA	173.1	125	5	59	82	14	F07
10127DA	304.1	150	6	93	130	14	F07
10140DA	461.6	200	8	206	210	17	F07
10160DA	602.9	250	10	330	360	19	F10
10210DA	1246.3	300	12	425	475	22	F10
10255DA	2905.8	350	14	640	760	22	F14

SECA BUTTERFLY VALVE Wafer Type

Mounting With Electric Actuator

TYPE: WAFER BODY

MATERIAL: C.I. FC-20

FLANGES: ANSI 125/150LB, JIS 10K,

B.S. TABLE E, DIN

SIZE: WAFER TYPE 2" THRU 24"

FLUID APPLICATION: .

WATER, SEAWATER, AIR, OIL

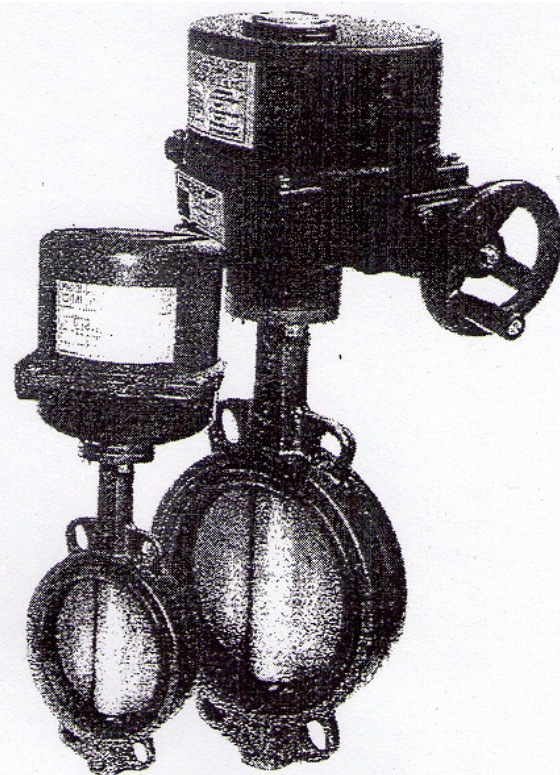
WORKING PRESSURE:

10 KG/CM²(150PSI)

TEST PRESSURE:

BODY 20 KG/CM² (300 PSI)

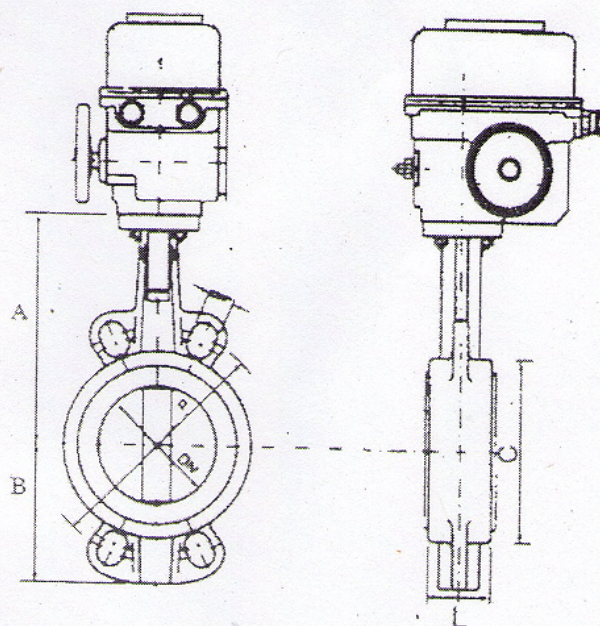
SEAT 12 KG/CM² (170 PSI)



MATERIALS LIST

N0.	PART/NAME	MATERIALS
1	BODY	CAST IRON, STAINLESS 304, 316
2	SEAT	EPDM NBR PTFE
3	STEM	STAINLESS STEEL
4	DISC	STAINLESS 304 STAINLESS 316 BRONZE DUCTILE
5	TAPER PIN	STAINLESS STEEL
6	BUSHING	NYLON
7	O-RING	EPDM,NBR

Mounted with Electric Actuator
220 V/50Hz.Or 380 V/50Hz.3 Phase.
24 V/DC on request.
wiring diagram is inside the Actuator.



NEUMAX

PERFORMANCE

Type	Max. output Torque	Operating Time 60/50 Hz	Max Stem Dia.	Motor 30 Min. Class F	Rated Current (mA)				Number Of Handle Turn	Weight (Kg)
	Kg • m	90 Deg.	mm	W	1 Phase		3 Phase			
					110V	220V	380V	440V		
QT03 *	3	14/17	14	10	650	300	N/A	N/A	8.5	6
QT04 *	4	14/17	14	10	650	300	N/A	N/A	8.5	6
QT06 *	6	14/17	22	15	1250	400	N/A	N/A	8.5	9
QT09 *	9	14/17	22	25	1500	550	190	400	8.5	10
QT15	15	17/20	22	40	2000	900	280	400	10	12
QT19	19	17/20	22	40	2000	900	280	420	10	13
QT28	28	22/26	32	40	2000	900	280	450	12.75	17
QT38	38	22/26	32	60	2700	1250	400	450	12.75	18
QT50	50	22/26	32	90	3300	1600	600	450	12.75	19
QT60	60	24/29	42	120	5000	2400	800	500	14.5	22
QT80	80	24/29	42	180	5400	2800	1200	850	14.5	23
QT100	100	24/29	42	200	6000	3000	1300	900	14.5	25
QT150	150	75/90	50	180	5800	2800	1200	850	45	33
QT200	200	75/90	50	200	8000	3000	1300	900	45	35
QT250	250	75/90	50	200	8000	3000	1300	900	45	35

* Without torque switches

STANDARD SPECIFICATION

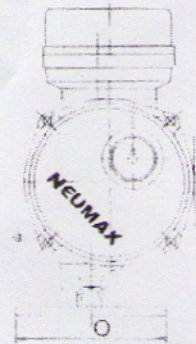
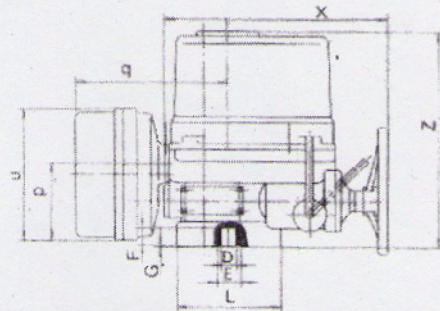
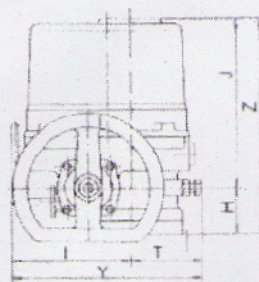
Housing & Cover	Aluminium, Anodized
Enclosure	Watertight IP67, Nema 4 and 6
Ambient Temp	-30 °C +70 °C
Power Supply (60Hz/50Hz)	110/220VAC, 1 Phase 380/440 VAC, 3 Phase
Control Power	110/220 VAC, 1Phase, 60/50Hz
Torque Switches	2 × SPDT for QT15 and above
Limit Switches	2 × SPDT 15A
Stall Protection	Built-in Thermal Protection
Travel Angle	90° ± 5
Indicator	Continuous Position Indicator
Manual Override	HAND/AUTO Decoupling Mechanism
Self Locking	Provide by means of Worm Gearing
End Stopper	External Adjustable Screws
Space Heater	20W for Anti-Condensation
Conduit Entries	Two G3/4"
Lubrication	MoS2 Lithium Base Grease
Materials	Steel, Aluminium Alloy, Al Bronze
External Coating	Dry Powder, Epoxy-Polyester Munsell No.FJ-002

OPTIONAL ITEMS

ALS	Additional 12 × SPDT Auxiliary Limit Switches
EXT	Travel Angle 120°, 135°, 180°, 270°
LCB	Local Control Box (1) Local/Remote Selector Switch (2) Open/Stop/Close Selector Switch
POT	Potentiometer 1k Ohm
CPT	Current Position Transmitter Output: 4-20mA DC
PCM	Proportional Control Module Input signal: 4-20mA, 1-5V DC Output signal: 4-20mA DC
EXP	Explosion & Water Proof Enclosure Exd II BT4 IP67

NEUMAX

QT03,QT04,QT06,QT09,QT15,QT19,QT28,QT38,QT50,QT60,QT80,QT100



DIMENSIONS

Type	QT03	QT04	QT06	QT09	QT15	QT19	QT28	QT38	QT50	QT60	QT80	QT100
Flange ISO5211	F05	F05	F07	F07	F07	F07	F10	F10	F10	F10 F12	F10 F12	F10 F12
	F07	F07	—	—	F10	F10	F12	F12	F12	F14	F14	F14
C	50	50	70	70	102	102	102	102	102	125	125	125
A	M6	M6	M8	M8	M10	M10	M10	M10	M10	M12	M12	M12
B	10	10	14	14	14	14	17	17	17	19	19	19
D (Max)	14	14	22	22	22	22	32	32	32	42	42	42
E	40	40	55	55	57	57	75	75	75	85	85	85
F	25	25	35	35	35	35	42	42	42	50	50	50
G	5	5	5	5	5	5	5	5	5	5	5	5
H	60	60	60	60	64	64	70	70	70	78	78	78
I	133	133	133	133	154	154	174	174	174	191	191	191
J	196	196	196	196	199	199	228	228	228	264	264	264
L	102	102	102	102	125	125	145	145	145	175	175	175
O	200	200	200	200	250	250	350	350	350	350	350	350
T	75	75	75	75	85	85	100	100	100	115	115	115
X	241	241	241	241	272	272	290	290	290	331	331	331
Y	208	208	208	208	239	239	274	274	274	306	306	306
Z	256	256	256	256	263	263	298	298	298	342	342	342
P	72	72	72	72	72	72	72	72	72	72	72	72
q	166	166	166	166	187	187	192	192	192	209	209	209
U	170	170	170	170	170	170	170	170	170	170	170	170