

GENERAL FEATURES

Wafer butterfly valve of which retentive elastomer liner can be replaced on site without extra tools Complete, permanent and continuous leak-tightness provided by spherical contact between the disc and the Liner and shaft sealing provided by flatly raised seat surface and polished disc-hub area.

Leak-tightness at Line stream, shaft passages and to the atmosphere

A perfect zero leakage seal at bi-direction is obtained by the compression of the inner between the valve body and the edge of the disc. A perfect zero leakage seal is provide by means of flatted liner area around both up and down shaft passages and the spherically machined disc. Since the seat stem hole is smaller than the stem diameter, there is a compression fit forming a secondary seal. The seal insures that no fluid will leak to atmosphere.

Heavy duty top bushing
absorbs side thrust load(PTFE)

Mounting plate in accordance
with ISO standard

Sealing
Hub seal provided by preloaded contact between
flatted seat surface and spherically machined and
polished disc-hub area for positive sealing at all
Disc positions.

Disc edge
Spherically machined and polished disc edge
provide full concentric sealing, lower lever torques,
seat life and positive shut-off closed at both directions.

Liner
Retained resilient seat to valve enable easy
replacement and isolates the body and stem from
the flow. Special design of built-in O-ring provides
positive flange sealing with no pipeline gasket required.

Piping guide rib
Flange bolt alignment and installation suit
for multi-national standard such as JIS,
DIN,ANSI and BS flange standard.

Body
Face to face dimension in accordance
With API and ISO standard



Thru-shaft
provide high strength and absolutely
positive disc control and gives minimum
Obstruction

Specifications

Standard according to ISO5752 – BS5155 – MSS SP67 – API 609

Product range 40mm up to 1000mm (1.1/2" ~ 40")

Pressure range designed for maximum working pressure of 16bar (240Psi)

Flange connections The shape of valve body has been do designed as to allow flange bolt alignment onto following standards. Wafer type valve has been successfully developed to fit multi functional application onto either connection standard in the same configuration, mainly

ISO PN6, 10, 16, and 25

ANSI B16-1 CL

BS4504 PN6, PN10, PN16

AS2129 Table D and E

MSS SP 44 CL 150

ANSI B16-5 CL 150

BS10 Table D and E

JIS B2210 5K, 10K, 16K and 20K

Face to face dimensions in accordance with ISO 5752, MSS SP67 and API 609

Actuator connection valve can be fitted with any 1/4turn actuator equipped with a mounting plate meeting the standard ISO5211

Test inspection DK valves are guaranteed to seal perfectly (no visible leakage) in both flow directions. The test conforms to API598

Body test::1.5times the maximum working pressure with water . The test is performed on the assembled valve with the disc in half open position.

Seat and shaft seal test : 1.1 times the maximum working pressure. The shaft seal test and inspection is conducted simultaneously with seat test.

Standard materials

Body	Cast iron	ASTM A126 Cl. B
	Ductile iron	ASTM A 536 Gr 65-45-12
	Carbon steel	ASTM A 216 WCB
	Stainless steel	ASTM A 351 Gr CF8-CF8M
	Bronze	ASTM B 62
Disc	Ductile iron	ASTM A 536 Gr 65-45-12
	Stainless steel	ASTM A 351 Gr CF8-CF8M
	Aluminum bronze	ASTM A 148 Cl. C95500
	Coated	EPDM-Vinton-Buna etc
Stem	Stainless steel	ASTM A 276 304
	Stainless steel	ASTM A 276 410
	Stainless steel	ASTM A 276 316
	Stainless steel	17-4PH ASTM A 564 TYPE 630
	K-Model	ASTM B 164
Seat	Elastomer	Working temperature
	EPDM	- 40'C ~ + 150'C
	NBR	- 20'C ~ + 90'C
	Vinton	- 40'C ~ + 280'C
	Silicon	- 100'C ~ + 250'C
	Neoprene	- 45'C ~ + 120'C
Packing	EPDM	
	NBR	
	Vinton	
Gland	PP	

* valve discs in ductile iron and carbon steel nickel plated

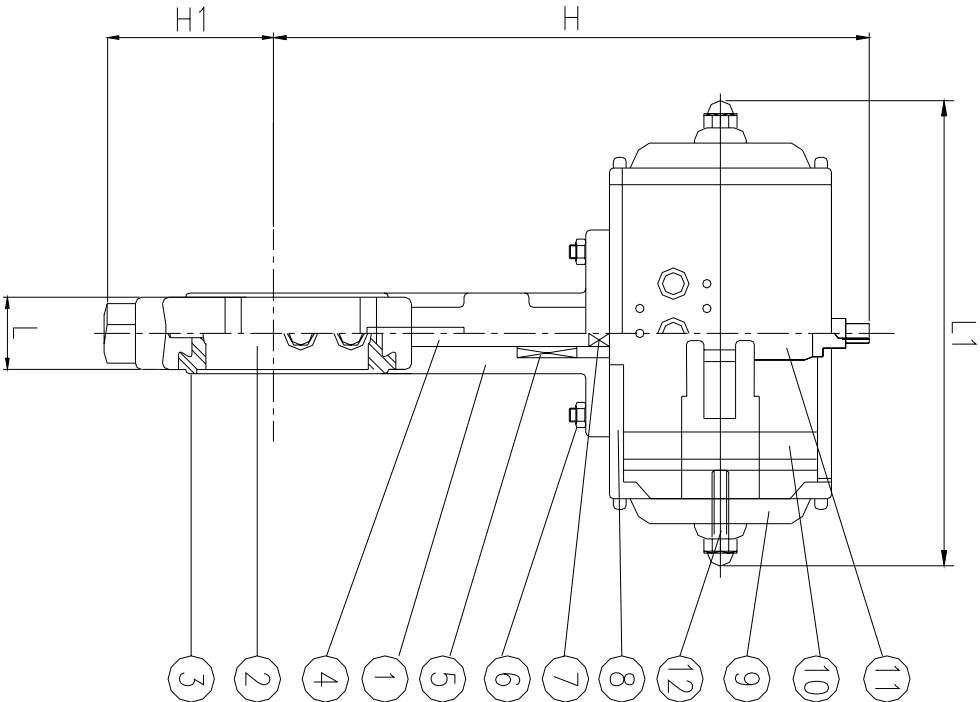
* Self-locking feature, thread into the far side of the disc. and use an O-ring under the head for sealing

PART

12	SETTING SCREW	SS41	2
11	PINION	S45C	1
10	PISTON	Al. Alloy	2
9	CYLINDER COVER	Al. Alloy	2
8	CYLINDER	Al. Alloy	1
7	SOCKET	S45C	1
6	BOLT	S45C	4
5	PACKING	VITON	5
4	BODY SHAFT	SUS304	1
3	SEAT	PTFE	1
2	DISC	SUS304	1
1	BODY	FC20	1
NO.	PART NAME	MATERIAL	Q'TY

DIMENSIONS

SIZE	H	H1	L	L1	PT
50	230	72	41	175	1/4"
65	241	76	44	175	1/4"
80	252	82	44	175	1/4"
100	260	100	51	254	1/4"
125	354	111	53	275	1/4"
150	360	134	53	275	1/4"
200	400	163	64	370	1/4"
250	420	218	68	370	1/4"
300	547	218	76	450	3/8"
350	547	218	76	580	3/8"
400	547	218	102	580	3/8"



SCALE	NS.	DRAW IN.		DES.	CHECK.	APPR.	MODEL NO.	SB-210
UNIT	mm	P. S. KIM					DRAW IN NO.	SV-990-61
DATE	2002.09						DRAW IN NAME.	PNEUMATIC ACTUATOR BUTTERFLY VALVE

SAM SUNG CONTROL VALVE