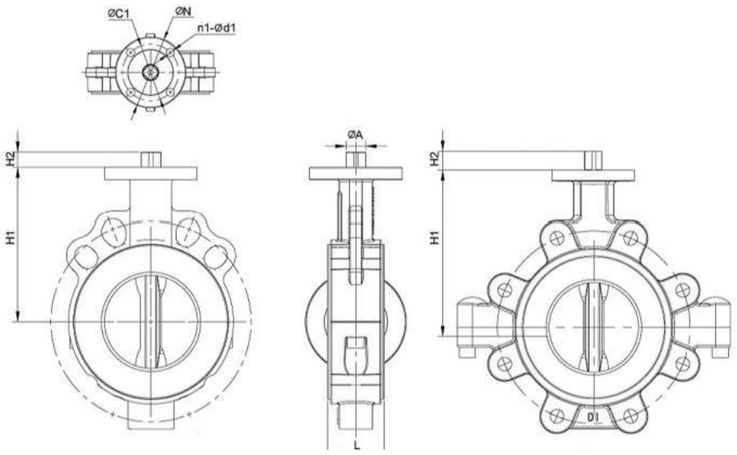
Fig.114 Wafer& Lug type



114W Wafer Body Style

114L Lug Body Style

SIZE		L			H2	ΦA	ISO 5211	ΦN	n1-ad1
NCH	DN		Wafer	Lug					
1-1/2	40	33	100	100	14.5	9	F05	65	4-8
2	50	43	110	110	14.5	11	F05	65	4-8
2-1/2	65	46	125	125	14.5	11	F05	65	4-8
3	80	46	132	136	14.5	11	F05	65	4-8
4	100	52	147	151	20	14	F07	90	4-10
5	125	56	170	170	22	17	F07	90	4-10
6	150	56	190	190	22	17	F07	90	4-10
8	200	60	222	222	28	19/22	F07/F10	125	4-10/4-12
10	250	68	270	270	28	22	F10	125	4-12
12	300	78	290	290	28	22	F10	150	4-12/4-14
14	350	78	325	325	35	27	F12	150	4-14
16	400	102	350	350	45	37	F14	175	4-18

Valve Torque

(All torques in N-m.)

ALVE SIZE	DN	40	50	65	80	100	125	150	200	250	300	350	400
	INCH	1-1/2	2	2-1/2	3	4	5	6	8	10	12	14	16
Fig:114		20	25	30	40	82	125	168	226	342	465	920	1850

Above torque valves are for valves with PTFE seat and disc.

The torque valves specified are based on dry media and are measured at a temperature of 20℃.

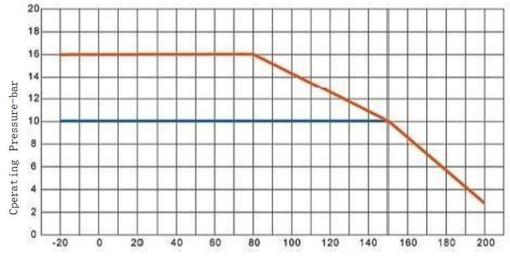
Valve Flow Coefficient

Cv :the volume flow in US gallons per minute [gpm] at a temperature of 60° F with a pressure drop of 1 psi.
Kv: the volume flow in cubic meters per hour[m³/h]at at a temperature of 16℃ with a pressure drop of 1 bar(kg/cm2).
Cv=1.156*Kv
Kv =0.865*Cv

Kv values in m³/h

Size															
	DN	25°	30°	35°	40	45°	50°	55°	60°	65°	70	75°	80	85°	90°
1-1/2	40	1	2	5	7	12	16	22	27	34	44	51	53	57	60
2	50	3	6	9	15	21	31	42	55	73	90	105	112	118	121
2-1/2	65	6	9	18	34	47	71	92	124	163	202	235	251	164	272
3	80	8	15	28	38	58	80	111	146	189	256	339	402	438	476
4	100	15	29	53	70	105	145	198	260	341	462	608	723	792	857
5	125	25	48	84	112	169	235	319	421	551	748	980	1165	1276	1382
6	150	65	96	155	209	283	340	457	582	705	928	1308	1710	1992	2282
8	200	118	176	278	373	503	607	809	1030	1249	1644	2312	3031	3526	4037
10	250	199	298	407	553	705	966	1275	1564	1998	2464	3261	4029	4446	4821
12	300	289	437	621	862	1164	1462	1882	2352	3249	3838	5635	6261	7014	7054
14	350	349	649	867	1199	1645	2097	2675	3397	4343	5342	6954	8738	9505	10500
16	400	523	875	1219	1616	2145	2648	3826	4578	5925	7202	10025	11778	12745	13464

Pressure/Temperature Ratings



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RTC TAIWAN ATYCO Fluid Control

Lined But erfly Valve

Series 114 Wafer & Lug

Corrosion Resistant Valve

www.atyco.cn

Series 114 Lined Butterfly Valve

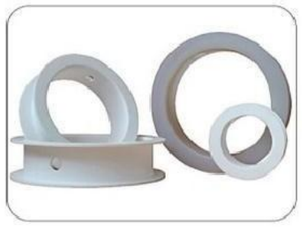
RTC lined butterfly valve is designed for control and the isolation of aggressive media.
A fully Lined valve is highly recommended for abrasive and corrosive applications

Where require reliable performance,drop-tight shutoff,constant torque and no maintenance.

Series 114 lined valve is rated to 150 psi and is also suitable for ultrapure application.

Lining Material

RTC uses virgin resin of well-known brand to produce its PTFE,PFA and FEP fluoropolymers.
Especiallly for lined valves,factors including liner thickness,resin quality and fabrication expertise always are more significant to affect valve performance and its service life.



Seat Liner

*Materials shall be PTFE,PFA and FEP
*Molded and machined with min.3mm nominal thickness
*Optional TFM liner available for extremely demanding applications
More information about selection of appropriate liner material for a given service, please consult manufacturer.

Disc lining

*Fully lined with PTFE or PFA
*Encapsulated with a min.3mm thick PTFE or PFA

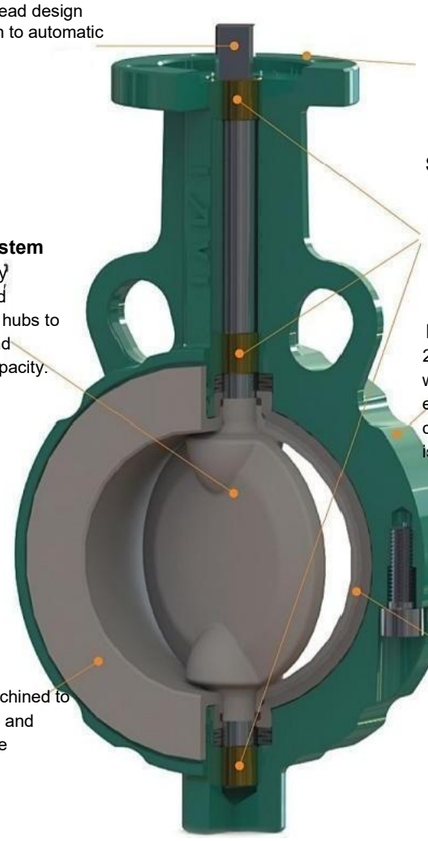
Liner thickness:in accordance withASTMF1545,the lining thickness must be 3mm min. In practice, thicker linings offer better safety under vacuum, better resistance against abrasion as well as lower gas permeability.
Electrostatic Spark Test
It is the test with a non-destructive high-voltage tester and shall be done prior to shipment. Each lined valve passes a 10,000 volts min. Spark test to detect any cracks or pin holes and ensure the integrity of the liner.

Deasign Change
In order to follow the RTC commitment to continuous improvement,we reserve the right to revise or modify product and performance without prior notice.

Features and Advantages

Shaft
Square type stem head design
Facilitates adaption to automatic actuation.

One-piece disc/stem
Disc has spherically machined and hand polished disc edge hubs to eliminate torque and improve sealing capacity.



ISO-5211Mounting Flange
Universal mounting dimensions facilitate valve actuations.Allows for direct mounting of several actuators.

Stem Bearings
Bronze or PTFE/SS bearings maintain shaft alignment.
Self-lubricated bearings Reduce side loading of shaft.

Body
2pc Split Body Construction with epoxy coating resists the effect of atmospheric corrosion .Polyester coating is optional.

Elastomer Back-up
It is the same width as the disc edge and locked into body groove. It provides resilience to body liner,giving bubble-tight seal.

Seat
Molded liner is machined to provide low torque and reduce wear on the contacting parts.

Standard Material List

	Part	Material
1	Body	Ductile Iron
		Carbon Steel
		Stainless Steel
2	Disc	Carbon Steel or Stainless Steel
		PTFE/PFA/FEP/UHMWPE Lined
3	Stem	Stainless Steel
4	Seat	PTFE/RTFE/PFA/TFM/UHMWPE
5	Back-up	Silicon/FKM/EPDM
6	Belleville Washer	Steel Spring
7	Pusher	Stainless Steel
8	O-ring	FKM with PTFE
9	Bearings	316 with PTFE
10	Screw	Stainless Steel

Standard Specifications
Valve Design:MSS SP-67,API609Face to Face:API609,ISO5752,EN558-1Flange Adaptability:ANSIClass 150,PN10/1

Product Range
Body Configurations:Wafer and Lug
Valve Size:1-1/2"～16"(DN40～DN400)
Temperature:-40℃~180℃

Operator Available
Lever Handle,Gear Operator, Pneumatic and Electric Actuators

Applications:

*Chemical Processing
*Petrochemical
*Pulp and Paper Processing
*Solid handling
*Purification Piants
*Pharmaceutical Industry
*Food Industry
*Mininig
*Textile
*Highly corrosive gas, liquid, slurry or powder