ARNETT VALVES
powered by paravalves

RYU SERIES

RESILIENT SEATED BUTTERFLY VALVES









WORKING PRESSURE	MAX SIZE
290 PSI (20 BAR)	**60"** (DN1500)
MAX TEMPERATURE	**BODY**
392°F (200°C)	**WAFER, LUG, FLANGED**

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SIZES

1 1/2" - 60"
(DN40-1500)
BRW and BRL: DN40-1500
BRF: DN50-1500

PRESSURE

290 psi
(20 bar)
All three models

FACE TO FACE

EN558
(serie 20)

FLANGE DRILLING

ANSI 150#,
PN10, PN16, PN25

TEMPERATURE

-40°F - 392°F
(-40°C - 200°C)
Maximum, set by the material

BODY

Wafer, Lug,
Flanged

Material	Temperature Range
EPDM (Ethylene-Propylene-Terpolymer)	**-4°F to 266°F** (-20°C to 130°C)
NBR (Nitrile rubber)	**14°F to 194°F** (-10°C to 90°C)
PU (Polyurethane)	**-4°F to 176°F** (-20°C to 80°C)
FPM (Fluorine elastomer)	**-14°F to 356°F** (-10°C to 180°C)
MVQ (Silicone rubber)	**-40°F to 302°F** (-40°C to 150°C)

**Other materials on request. Consult Arnett.*



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RESILIENT SEATED BUTTERFLY VALVES

Finite Element Analysis for components and assemblies.

Every Arnett Valves RYU series valve is a welded assembly for industrial applications, designed and validated with computational fluid dynamics and finite element analysis on components and assemblies.

Resilient seated butterfly valves from RYU series are primarily used in industries requiring reliable flow control and tight sealing.

These valves are ideal for applications in water treatment, HVAC systems, chemical processing, and food and beverage industries, where they provide efficient, leak-proof performance under varying pressures and temperatures.

Their versatility and durability make them suitable for handling liquids, gases, and semi-solid media.
Ensuring consistent operation in a wide range of industrial environments.



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BUBBLE-TIGHT SHUT OFF IN BOTH DIRECTIONS

There is no leakage when the valve is closed completely as a result of the precision and the tight sealing of the resilient seat to the disc. This quarter-turn operation makes it easy to open and close the valve and can be operated manually, electrically or pneumatically.

DUCTILE IRON OR CF8M STAINLESS STEEL

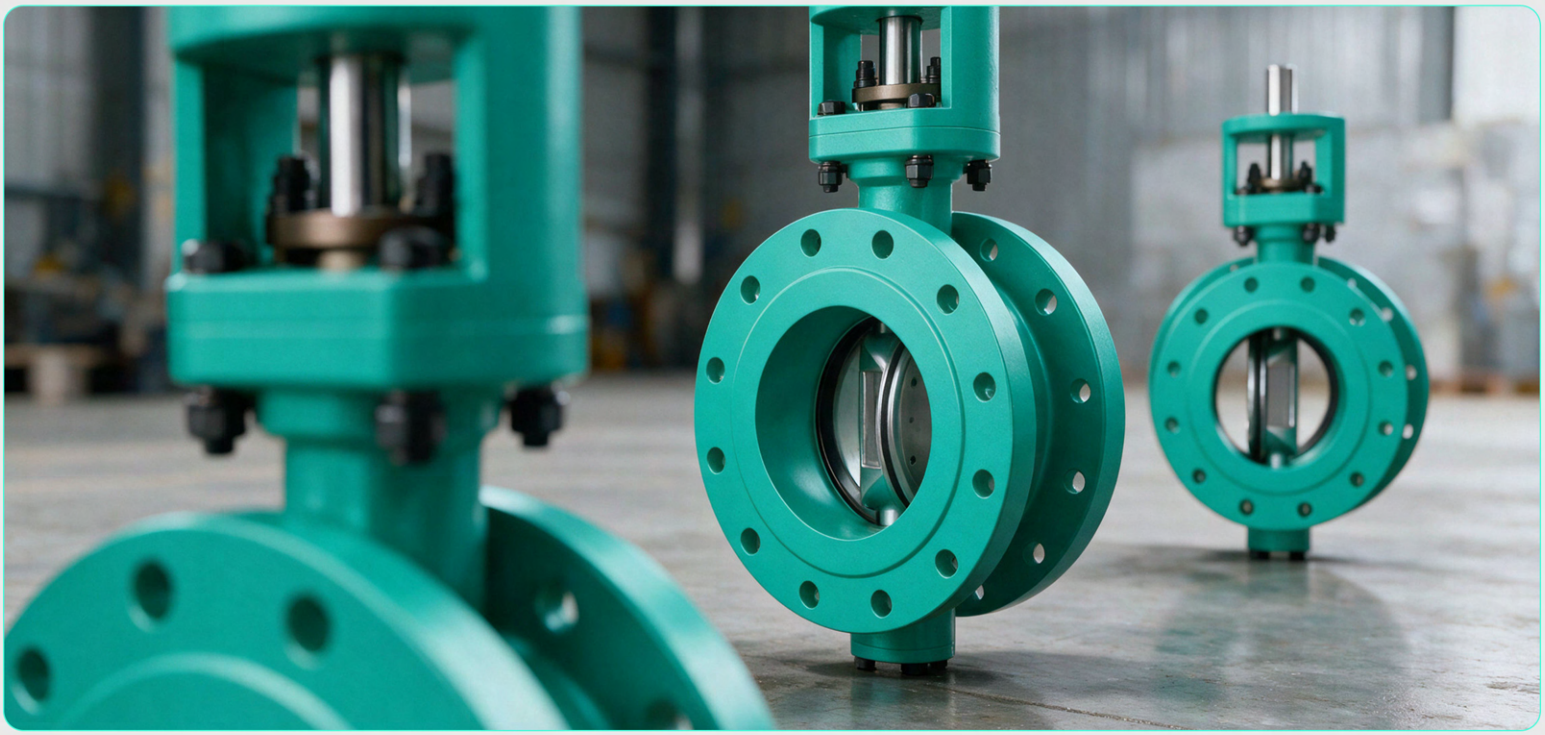
High corrosion resistance while mantaining good mechanical properties.

The elastomer seat is manufactured from high quality EPDM, NBR, Viton or AFLAS.
Special materials can be selected on request for all the main components as well as custom solutions that can be designed, engineered and produced.

INTERCHANGEABLE ACTUATION

Designed to provide the best service, reliability and longevity in use.
Available with bodies in wafer, lug or double flange configurations.

The design includes a concentric disc and stem arrangement that provides uniform sealing pressure on the resilient seat, enhancing on-off performance and reducing wear.



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MACHINED EDGE DISC

Machined edge disc in a butterfly valve helps to get precise fitting with the sleeve,

with more control of the interference and final operating torque,
also improve the sealing performance and life of the valve.

ROBUST & CUSTOM DESIGNS

A well designed body is more durable, reliable and can work for a longer periods of time without fail, even under high pressures and heavy applications.

Advanced engineering, design and accurate machining is a key part of Arnett Valves RYU series production and quality control.

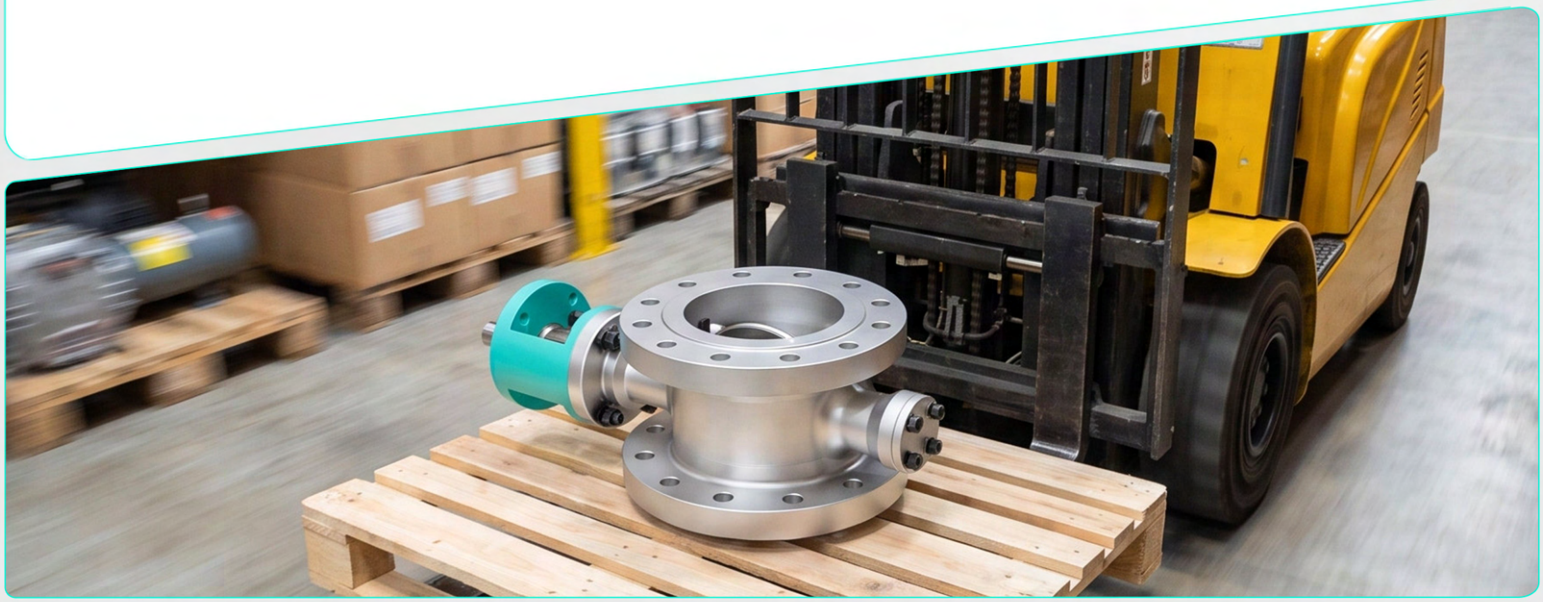
Arnett Valves can produce custom butterfly valve solutions tailored to meet your specific requirements.

Whether you need unique dimensions, materials, or performance features, Arnett team can work closely with you to design and manufacture valves that ensure optimal functionality and reliability for your application.

ADVANCED ENGINEERING

Computational fluid dynamics (CFD) and finite element analysis (FEA).

Both are performed in order to guarantee efficiency and reliability in valve's performance. Arnett Valves is ready to supply customed solutions optimized for flow control.



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APPLICATIONS

WATER TREATMENT

HVAC SYSTEMS

CHEMICAL PROCESSING

FOOD AND BEVERAGE

LIQUIDS AND GASES

SEMI-SOLID MEDIA









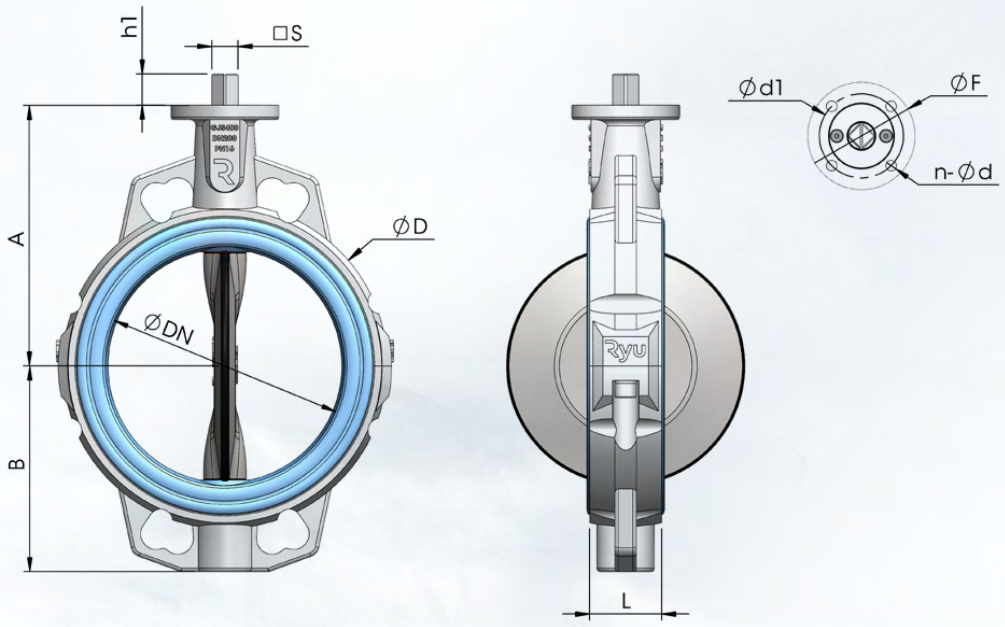
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BRW MODEL

WAFER TYPE RESILIENT SEATED BUTTERFLY



BRW DIMENSIONAL TABLE

DN	Size (inch)	L	A	B	ØD	h1	□ S	ISO flange	Ød1	ØF	n-Ød
40	1 1/2	33	108	63	82	23	14x14	F05	50	65	4-Ø7
50	2	43	120	75	97	23	14x14	F05	50	65	4-Ø7
65	2 1/2	46	128	90	118	23	14x14	F05	50	65	4-Ø7
80	3	46	150	95	140	23	14x14	F05	50	65	4-Ø7
100	4	52	160	115	160	23	14x14	F05	50	65	4-Ø7
125	5	56	172	128	190	26	17x17	F07	70	90	4-Ø9
150	6	56	193	140	214	26	17x17	F07	70	90	4-Ø9
200	8	60	218	172	271	26	17x17	F07	70	90	4-Ø9
250	10	68	256	203	322	30	22x22	F10	102	125	4-Ø11
300	12	78	282	243	374	30	22x22	F10	102	125	4-Ø11
350	14	178	320	268	410	35	27x27	F12	125	150	4-Ø13
400	16	102	361	298	475	35	27x27	F12	125	150	4-Ø13
450	18	114	385	318	533	*	*	F14	140	175	4-Ø18
500	20	127	435	350	580	*	*	F16	165	210	4-Ø22
600	24	154	486	408	680	*	*	F16	165	210	4-Ø22

Larger sizes (up to 60"/DN1500) are available on request.
*According to the selected specific actuator. All dimensions given in mm.

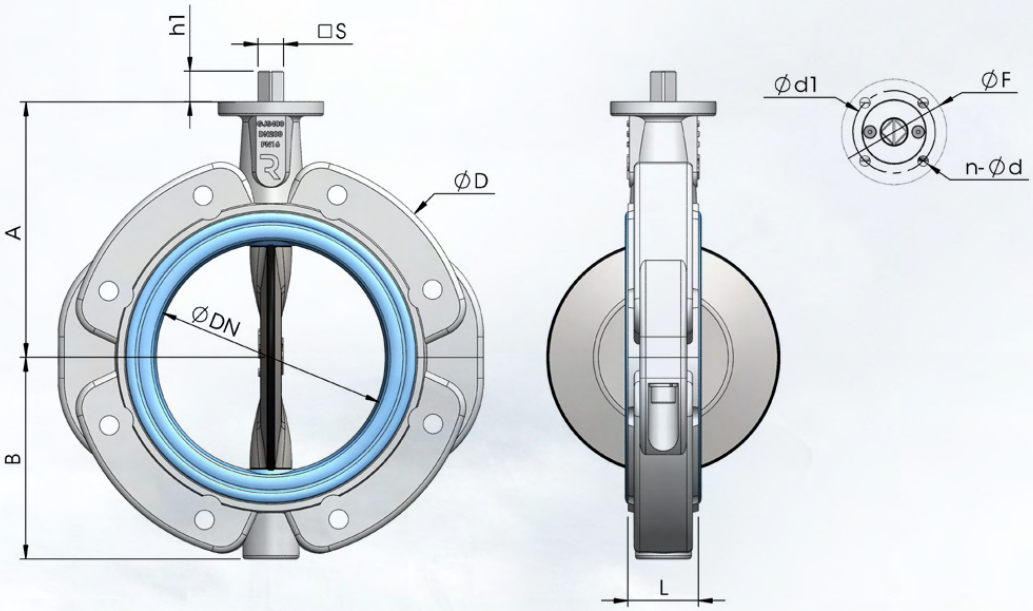
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BRL MODEL

LUG TYPE RESILIENT SEATED BUTTERFLY



BRL DIMENSIONAL TABLE

DN	Size (inch)	L	A	B	ØD	h1	□ S	ISO flange	Ød1	ØF	n-Ød
40	1 1/2	33	108	63	125	23	14x14	F05	50	65	4-Ø7
50	2	43	120	75	150	23	14x14	F05	50	65	4-Ø7
65	2 1/2	46	128	90	180	23	14x14	F05	50	65	4-Ø7
80	3	46	150	95	190	23	14x14	F05	50	65	4-Ø7
100	4	52	160	115	230	23	14x14	F05	50	65	4-Ø7
125	5	56	172	128	255	26	17x17	F07	70	90	4-Ø9
150	6	56	193	140	280	26	17x17	F07	70	90	4-Ø9
200	8	60	218	172	345	26	17x17	F07	70	90	4-Ø9
250	10	68	256	203	405	30	22x22	F10	102	125	4-Ø11
300	12	78	282	243	485	30	22x22	F10	102	125	4-Ø11
350	14	178	320	268	535	35	27x27	F12	125	150	4-Ø13
400	16	102	361	298	595	35	27x27	F12	125	150	4-Ø13
450	18	114	385	318	635	*	*	F14	140	175	4-Ø18
500	20	127	435	350	700	*	*	F16	165	210	4-Ø22
600	24	154	486	408	815	*	*	F16	165	210	4-Ø22

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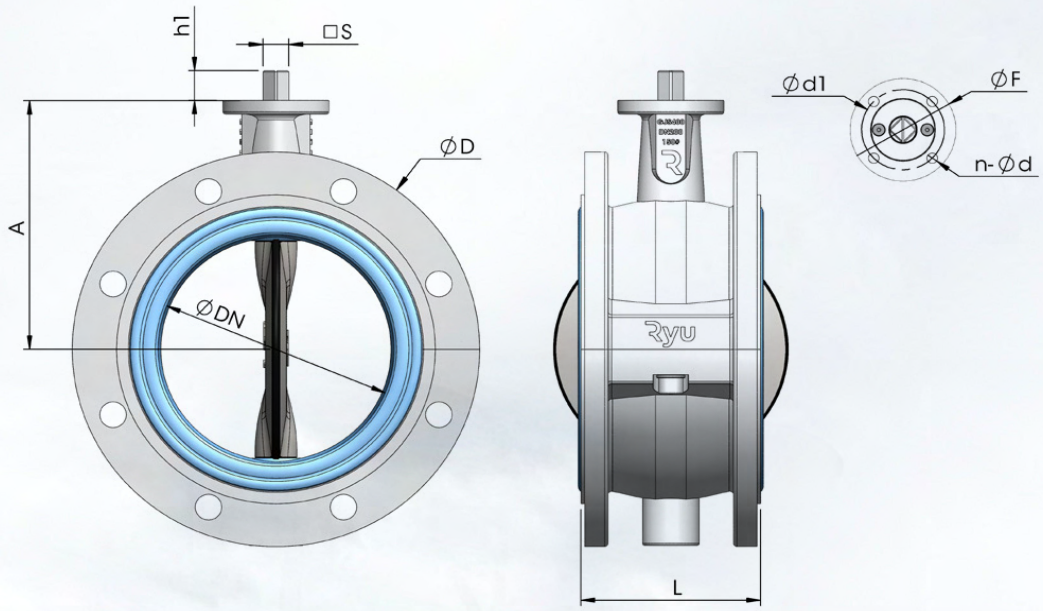
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BRF MODEL

DOUBLE FLANGED RESILIENT SEATED BUTTERFLY



BRF DIMENSIONAL TABLE

DN	Size (inch)	L	A	ØD	h1	□ S	ISO flange	Ød1	ØF	n-Ød
50	2	108	120	150	23	14x14	F05	50	65	4-Ø7
65	2 1/2	112	128	180	23	14x14	F05	50	65	4-Ø7
80	3	114	150	190	23	14x14	F05	50	65	4-Ø7
100	4	127	160	230	23	14x14	F05	50	65	4-Ø7
125	5	140	172	255	26	17x17	F07	70	90	4-Ø9
150	6	140	193	280	26	17x17	F07	70	90	4-Ø9
200	8	152	218	345	26	17x17	F07	70	90	4-Ø9
250	10	165	256	405	30	22x22	F10	102	125	4-Ø11
300	12	178	282	485	30	22x22	F10	102	125	4-Ø11
350	14	190	320	535	35	27x27	F12	125	150	4-Ø13
400	16	216	361	595	35	27x27	F12	125	150	4-Ø13
450	18	222	385	635	*	*	F14	140	175	4-Ø18
500	20	229	435	700	*	*	F16	165	210	4-Ø22
600	24	267	486	815	*	*	F16	165	210	4-Ø22

Larger sizes (up to 60"/DN1500) are available on request.
*According to the selected specific actuator. All dimensions given in mm.

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PERIMETRAL GROOVE FOR A PERFECT FIT

RYU series butterfly valve sleeve incorporates a precision-engineered perimeter groove for a secure fit.

This design ensures optimal alignment and stability, preventing leaks and enhancing the overall performance and reliability of the valve.

ADDITIONAL SHAFT DOUBLE SEALING

Featuring a double shaft sealing system that enhances reliability and leak prevention.
This advanced design ensures robust protection against contaminants and pressure fluctuations, extending the lifespan of the valve and minimizing maintenance.

FLANGE SEAL UNIQUE PROFILE

RYU series butterfly valve sleeve includes a precision flange profile that guarantees a perfect seal with the flange.
This design ensures a secure, leak-proof connection, enhancing both performance and durability.



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TECHNICAL DATA
RYU SERIES







ARNETT ENGINEERED SOLUTIONS

61 INNOVATION DRIVE, BAMBERG, SC 29003
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