FLOMATIC® VALVES

LUG AND WAFER BUTTERFLY VALVES
FLOMATIC'S SYLAX®3

High Quality Valves, Built To Last...®

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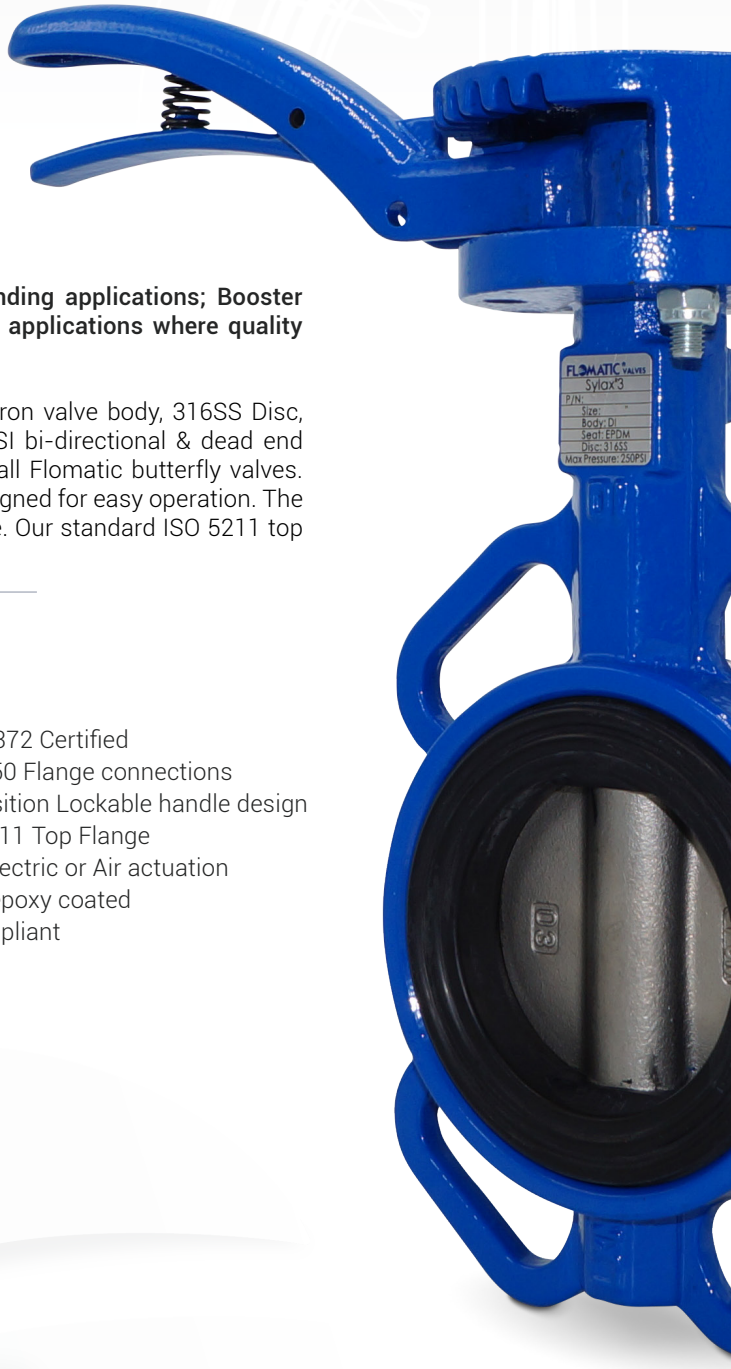
High Quality Valves Built to Last...®

SYLAX® 3
BUTTERFLY VALVES



The Flomatic SYLAX® 3 is a proven butterfly valve design for demanding applications; Booster Pumping Systems, HVAC systems and other municipal and industrial applications where quality and higher performance are most important.

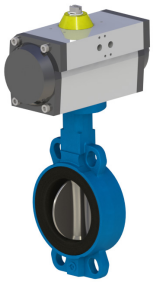
The SYLAX® 3 is designed and built strong including standard ductile iron valve body, 316SS Disc, 420SS stem, and vulcanized EPDM Seat. The valve is rated for 250 PSI bi-directional & dead end service. NSF/ANSI 61 & 372 certified to ensure safe drinking water on all Flomatic butterfly valves. The ANSI 125/150# configuration with lockable 10 position handle is designed for easy operation. The curved handle for 1 1/2" to 6" sizes provide a natural fit for handheld use. Our standard ISO 5211 top flange makes it easy to install actuators or Gear Boxes.

Features and Benefits

- Wafer or Full-Lug Style
- Standard Ductile Iron Body and SS Disc
- Self centering valve disc
- Square driven shaft/disc for higher torques
- Extended service life with upper and lower anti-friction bearings
- Provides bi-directional Service and Dead end service
- NSF/ANSI 61 & 372 Certified
- ANSI 125 and 150 Flange connections
- Exclusive 10 Position Lockable handle design
- Standard ISO 5211 Top Flange
- Optional Gear, Electric or Air actuation
- Fusion bonded epoxy coated
- MSS SP-67 compliant

Gear Box w/ Hand-wheel

Electric Actuators



Pneumatic/Air Actuators

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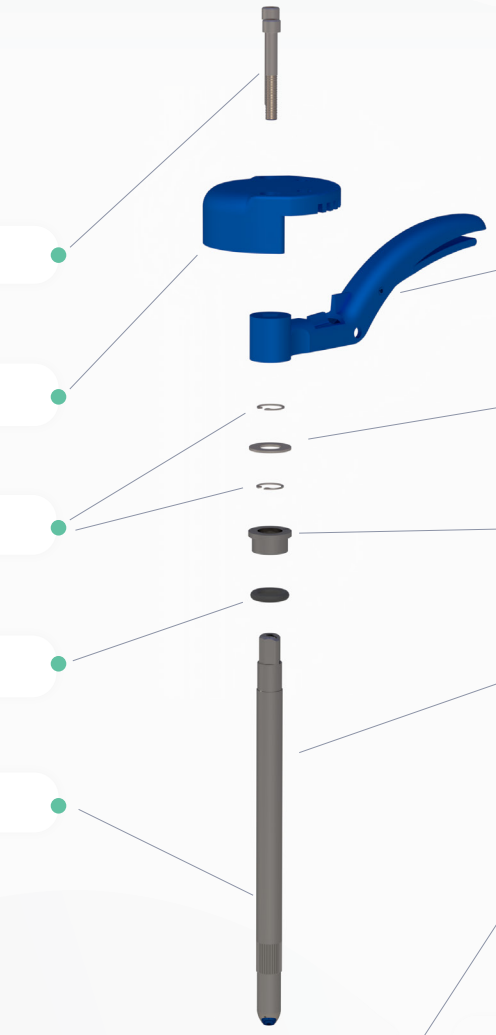
SYLAX® 3
EXPLODED VIEW



Socket Head Cap Screws

Cap

Retaining Ring

O'Ring

Hex Locking

Lever Assembly
Ergonomic design, allows for ease of usage. Made of ductile iron. Available in sizes 2" - 6".

Washer

Bushing
Material Nylon 1010

Shaft 420 Stainless Steel

Lug Style Body
Ductile Iron Construction for ANSI 125/150 connection

Disc
Stainless Steel 316 Construction

Seal
Vulcanized EPDM

Wafer Style

Wafer Style Body
Ductile Iron Construction

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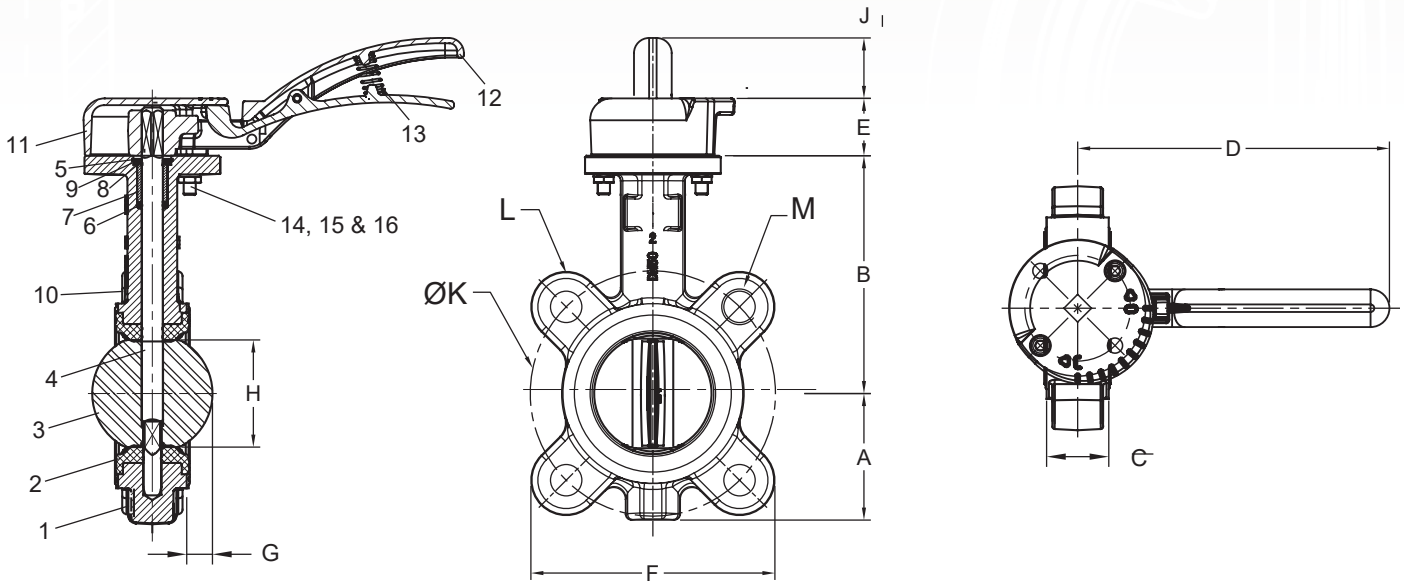
SYLAX® 3

FULL -LUG STYLE



PRESSURE MAX: 250 PSI TEMP MAX: 220°F (110°C)

Item #	Qty	Description	Material	Item #	Qty	Description	Material
1	1	Body	Ductile Iron A536 65-45-12	9	1	Washer	Stainless Steel 304
2	1	Seat	EPDM	10	1	Metal Tag	Aluminum
3	1	Disc	Stainless Steel 316	11	1	Cap	Ductile Iron A536 65-45-12
4	1	Shaft	Stainless Steel 420	12	1	Lever Assembly	Ductile Iron A536 65-45-12
5	1	Circlip	Steel XC 75/Stainless Steel	13	1	Spring	Carbon Steel
6	1	O'Ring	NBR	14	1	SHC Screw	Zinc Plated Carbon Steel
7	1	Bushing	Nylon 1010	15	2	Stop Washer	Zinc Plated Carbon Steel
8	1	Circlip	Steel XC 75/Stainless Steel	16	2	Nut	Zinc Plated Carbon Steel

* For sizes 6" to 12" a plate is used instead of a cap (material: Nickle Plated Carbon Steel)

Size		Part #	A		B		C		D		E		F		G		H		J		ØK		L # of Holes	M Thread	Wgt Lug	
inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm			lbs	kg
1-1/2	40	S3L03	2.45	62	5.50	140	1.42	36	8.15	207	1.50	38	4.06	103	0.13	3.3	1.66	42	1.50	38	3.88	98	4	1/2-13	7.5	3.4
2	50	S3L04	2.5	65	5.67	144	1.69	43	8.15	207	1.50	38	4.93	125	0.21	5	2.12	54	1.50	38	4.75	120.7	4	5/8-11	10.2	4.6
2-1/2	65	S3L05	2.8	72	6.02	153	1.81	46	8.15	207	1.50	38	5.47	139	0.38	10	2.57	65	1.50	38	5.50	139.7	4	5/8-11	11.6	5.3
3	80	S3L06	3.4	86	6.22	158	1.81	46	8.15	207	1.50	38	5.63	143	0.66	17	3.14	80	1.50	38	6.00	152.4	4	5/8-11	12.1	5.5
4	100	S3L07	4.2	107	6.93	176	2.05	52	8.15	207	1.50	38	8.34	212	1.04	27	4.14	105	1.50	38	7.50	190.5	8	5/8-11	18.5	8.4
5	125	S3L08	4.7	119	7.52	191	2.20	56	8.15	207	1.50	38	9.40	239	1.46	37	5.13	130	1.50	38	8.50	215.9	8	3/4-10	22.9	10.4

Size		Part #	A		B		C		D		E		F		G		H		ØJ		K # of Holes	L Thread	Wgt Lug	
inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm			lbs	kg
6	150	S3L09	5.0	128	7.97	203	2.20	56	10.51	267	1.18	30	10.50	267	1.97	50	6.14	156	9.50	241.30	8	3/4-10	27.3	12.4
8	200	S3L10	6.4	162	9.59	244	2.36	60	14.02	356	1.58	40	12.70	323	2.95	75	8.14	207	11.75	298.50	8	3/4-10	45.0	20.4
10	250	S3L11	7.6	194	10.75	273	2.68	68	19.29	490	1.58	40	15.59	396	3.70	94	9.97	253	14.25	362.00	12	7/8-9	66.5	30.2
12	20	S3L12	8.8	223	12.24	311	3.07	78	19.29	490	1.58	40	18.18	462	4.46	113	11.90	302	17.00	431.80	12	7/8-9	92.7	42.0

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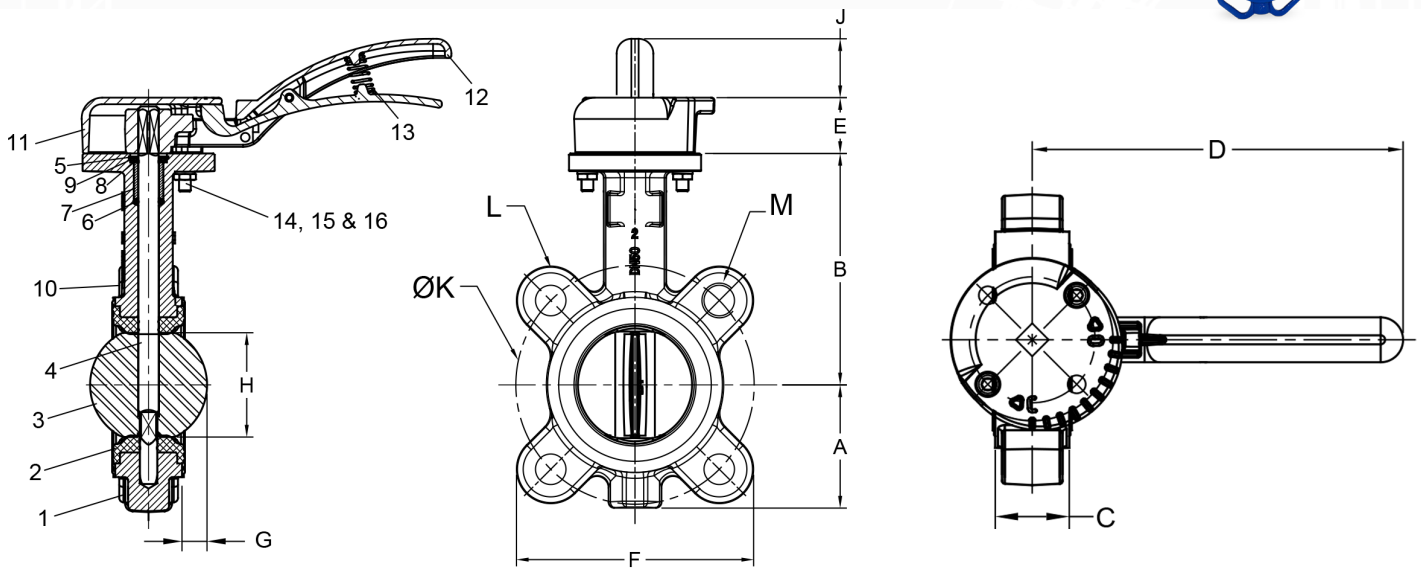
SYLAX® 3

Wafer Style



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* For sizes 6" to 12" a plate is used instead of a cap (material: Nickle Plated Carbon Steel)

Size		Part #	A		B		C		D		E		F		G		H		J		Wgt Wafe	
inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
2	50	S3W04	2.5	65	5.67	141	1.69	43	8.15	207	1.50	38	5.15	131	0.21	5	2.12	54	1.50	38	7.6	3.5
2-1/2	65	S3W05	2.8	72	6.02	156	1.81	46	8.15	207	1.50	38	5.66	144	0.38	10	2.57	65	1.50	38	8.6	3.9
3	80	S3W06	3.4	86	6.22	158	1.81	46	8.15	207	1.50	38	5.86	149	0.66	17	3.14	80	1.50	38	9.3	4.2
4	100	S3W07	3.9	100	7	178	2.05	52	8.15	207	1.50	38	6.27	159	1.04	27	4.14	105	1.50	38	11.8	5.4
5	125	S3W08	4.4	112	7.52	191	2.20	56	8.15	207	1.50	38	7.17	182	1.46	37	5.13	130	1.50	38	15.8	7.2
6	150	S3W09	5.0	128	7.97	203	2.20	56	10.51	267	1.18	30	8.36	212	1.97	50	6.14	156	N/A	N/A	17	7.7
8	200	S3W10	6.4	162	9.59	244	2.36	60	14.02	356	1.58	40	10.50	267	2.95	75	8.14	207	N/A	N/A	32.1	14.6
10	250	S3W11	7.6	194	10.75	273	2.68	68	19.29	490	1.58	40	12.66	322	3.70	94	9.97	253	N/A	N/A	45	20.4
12	300	S3W12	8.8	223	12.24	311	3.07	78	19.29	490	1.58	40	14.72	374	4.46	113	11.90	302	N/A	N/A	72.4	32.8

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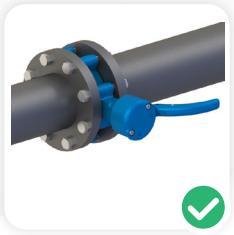
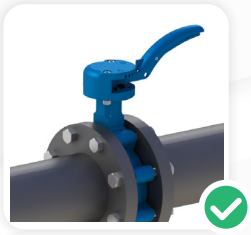
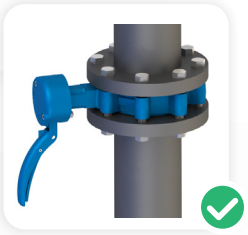
Flow Coefficients **(CV VALUES)**

SIZE		Cv @ Percent Open								
inch	mm	10°	20°	30°	40°	50°	60°	70°	80°	90°
2	50	0.07	4	8	16	28	45	71	106	116
2.5	65	0.11	7	13	26	46	76	120	179	197
3	80	0.21	10	19	40	71	117	184	276	303
4	100	0.31	18	37	79	140	231	365	547	601
5	125	0.51	30	62	134	238	393	621	931	1023
6	150	0.81	35	96	154	258	423	707	1155	1580
8	200	3	57	155	252	423	694	1159	1893	2166
10	250	4	88	239	386	655	1074	1795	2932	3354
12	300	5	154	418	682	1146	1880	3143	5133	5828

Bare Stem **TORQUE VALUES**

SIZE		145 PSI / 10 BAR			232 PSI / 16 BAR		
inch	mm	lbf.in	lbf.ft	Nm	lbf-in	lbf.ft	Nm
2	50	150	13	17	177	15	20
2.5	65	168	14	19	221	18	25
3	80	239	20	27	274	23	31
4	100	398	33	45	451	38	51
5	125	566	47	64	673	56	76
6	150	850	71	96	1151	96	130
8	200	1726	144	195	2036	170	230
10	250	3151	263	356	3496	291	395
12	300	4301	358	486	4868	406	550

Recommended **INSTALLATION**

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US Valve Manufacturer of High Quality Valves for the Municipal, Industrial, Irrigation, and Water Well Industries since 1933.

ADDRESS
15 Pruyn's Island Dr.
Glens Falls, NY 12801

CONTACT
Phone: 518-761-9797
Fax: 518-761-9798
E-Mail: flomatic@flomatic.com

Recommended **SPECIFICATION**

1.GENERAL

1.1. Manufacturer shall have a minimum of ten (10) years' experience in the manufacture of rubber seated butterfly valves.

1.2. Manufacturer shall have an ISO-9001 quality management system and ISO-14001 environmental quality system certified by an accredited body.

1.3. When requested, manufacturer shall provide detailed product data and descriptive literature including dimensions, weight, capacity, pressure rating, materials of construction and cross-sectional drawings clearly illustrating the individual components.

2. PRODUCT

2.1. The butterfly valve shall be designed to MSS SP-67 standards.

2.2. The butterfly valve shall be of wafer or lug configuration conforming to ASME B16.5 Class 150.
2.3. The butterfly valve shall be offered in a nominal size range of 2" to 16".

2.4. The butterfly valve shall be rated for bubble-tight shut off at pressure up to 250 PSI bi-directional and dead-end service.

3. MATERIALS

3.1. The valve body shall be made from ductile iron conforming to ASTM A536 Grade 65-45-12.

3.2. The valve disc shall be self-centering and made from 316 stainless steel.

3.3. The valve stem shall be of 1-piece design and shall be made from AISI 420 stainless steel. The stem/disc connection shall be a square driven connection allowing for higher operating torque.

3.4. The seat shall be of 1-piece design and shall be of EPDM with backing.

3.5. The upper anti-friction bearing shall be of Nylon 1010. The self-adjusting stem seal shall require no field adjustment.

4. COATING

4.1. Ferrous surfaces of the valve body shall be factory coated with NSF-61 certified fusion bonded epoxy in accordance with ANSI/AWWA C550.

5. CERTIFICATIONS

5.1. The valve shall be NSF-61 certified for contact with drinking water and NSF-372 certified lead free.

6. ACTUATION

6.1. The valves shall be designed and supplied with the top flange drilled per ISO 5211 standards for easy actuation.

6.2. Manually operated valves shall have a 10-position lockable handle or worm gear actuator with a handwheel and visual position indicator.

6.3. When specified butterfly valves shall be operated by an electric motor or pneumatic actuator sized per AWWA C504, as specified elsewhere.

7.MANUFACTURER

Wafer and Lug style Butterfly Valves shall be Sylax®3 as manufactured by Flomatic Valves, Glens Falls, NY, USA.

HIGH QUALITY VALVES, BUILT TO LAST.

As one of the first valve manufacturers to achieve and maintain both ISO 9001 & ISO 14001 accreditation we continuously improve our manufacturing practices and products by taking the thorough steps necessary to provide a cleaner environment for all.

LEAD FREE NSF/ANSI 61

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BOOSTER & SKID PACKAGE
COMPACT SOLUTION

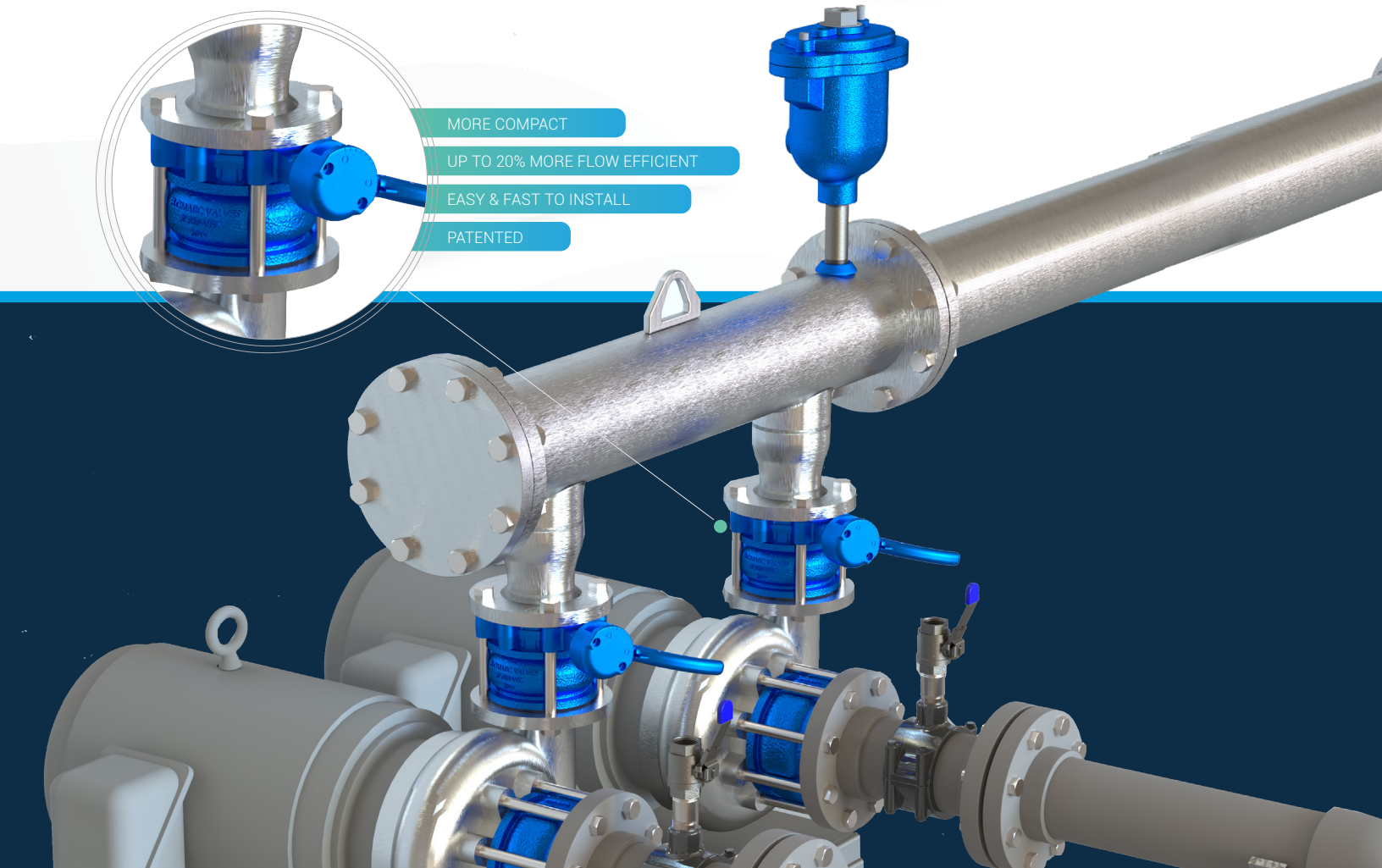
The new Flomatic Model 888VFD Wafer Check Valves can be close coupled with Flomatic's Sylax3 Butterfly valves without a spool piece.

The Butterfly valve can be operated with the check valve in an "open" or "closed" position with no interference in 2" thru 6" sizes. The overall installation length is much shorter than a traditional combination of a wafer style check valve, butterfly valve, and spool piece.

A traditional Wafer Check valve cannot be close coupled with a Butterfly valve without a spacer or spool piece, longer bolts and additional flange gasket. This spool piece adds weight, takes up more space, parts and installation expense.

Experience the convenience and simplicity of Flomatic's innovative valve technology today.

MODEL 888VFD



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Designing, Developing, and Manufacturing
The Most Complete Line of Valves for Water and Wastewater Applications
in The United States

FLOMATIC CORPORATION

15 Pruyn's Island Drive,
Glens Falls, New York 12801
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Fax: (800) 314-3155

WWW.FLOMATIC.COM

LIMITED ONE YEAR WARRANTY: The Flomatic Corporation warrants that its Butterfly Valves in all sizes are free from defects in materials and workmanship. Flomatic will replace any valve covered by this warranty found to be defective within three years from time of sale. This warranty will be void if the product has been modified in any way by the purchaser, or is subject to unreasonable use.

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