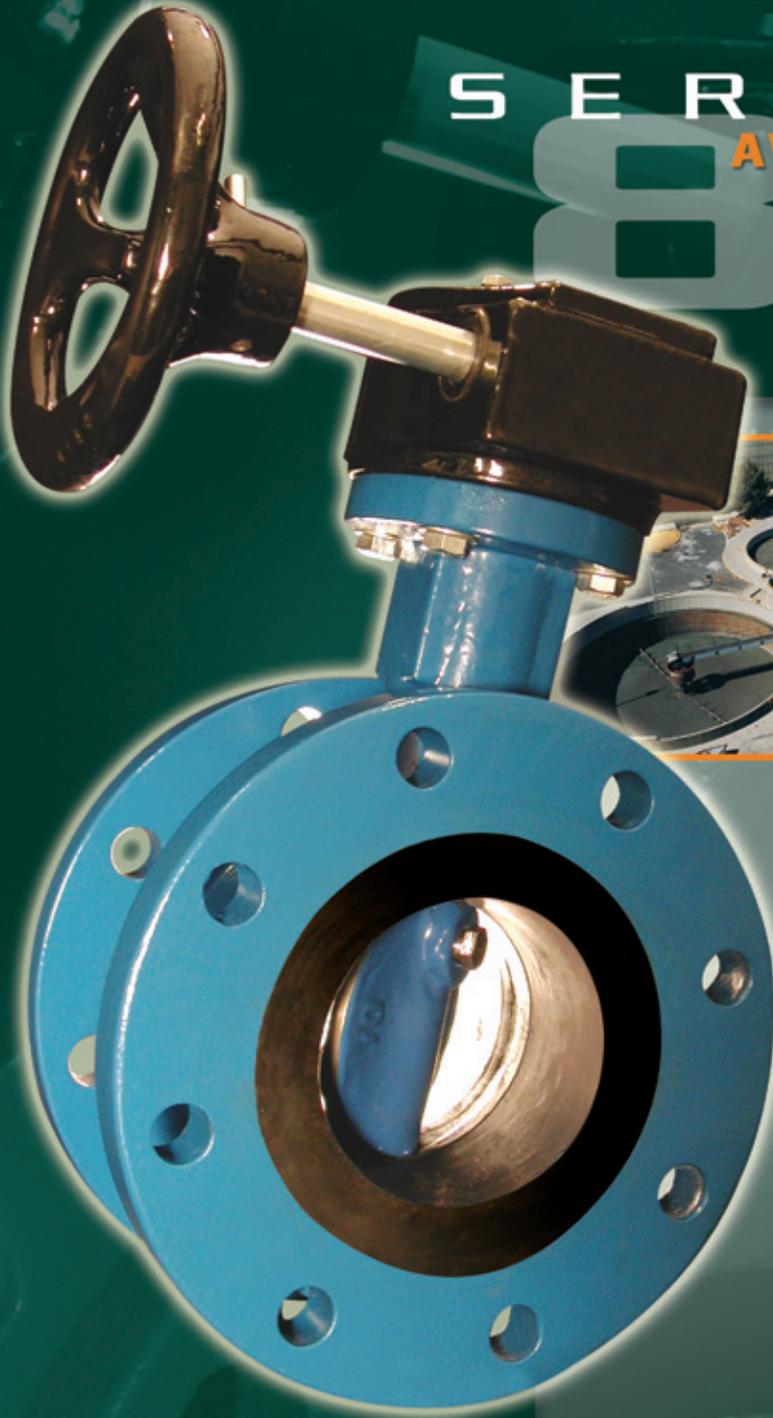


S E R I E S

AWWA Butterfly Valve

820



For over 120 years

Homestead® has been

building a reputation

of dependability,

reliability, safety and

uncompromising quality.

120 YEARS of
Dependability

HOMESTEAD®
WATER PRODUCTS

Homestead Series 820 AWWA Butterfly Valves

Dependable Valves for Water & Wastewater Service

FEATURES & BENEFITS

The Homestead Series 820 AWWA Butterfly Valve is in full compliance with AWWA C504, Class 150B. Valves are available in flanged and mechanical joint ends.

BODY: The ductile iron body meets or exceeds the design strength requirements of the AWWA C504 standards. Flange drilling conforms to ANSI B16.1, Class 125. Mechanical joint ends conform to ANSI/AWWA C111/A21.11.

DISC: The smooth profile concentric design ductile iron disc minimizes pressure drop across the valve and ensures stable flow characteristics.

DISC EDGE: The disc has a 316 stainless steel edge to help reduce sealing torque and provide reliable, long-lasting service.

SHAFT: The stainless steel shaft is a one-piece through design providing high strength and positive control.

SEAT: The entire through surface of the body is bonded and vulcanized with a durable elastomer to prevent corrosion on the valve interior. Bi-directional bubble tight shutoff is standard.

SHAFT SEALS: Top and bottom seals are self-compensating chevron-style v-type.

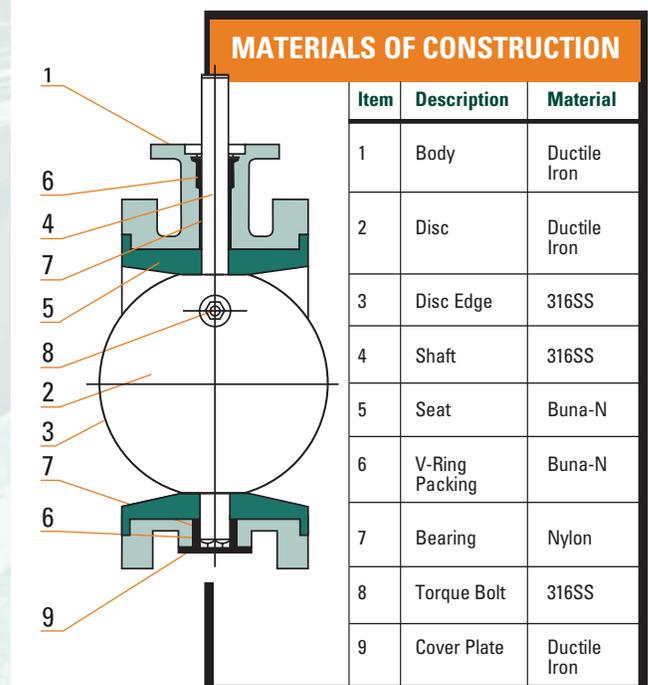
BEARINGS: Corrosion-resistant sleeve-type top and bottom bearings provide smooth and stick-free operation and are suitable for vertical or horizontal shaft loading.

TORQUE BOLT: The stainless steel torque bolt provides a leak-proof connection of the shaft to the disc.

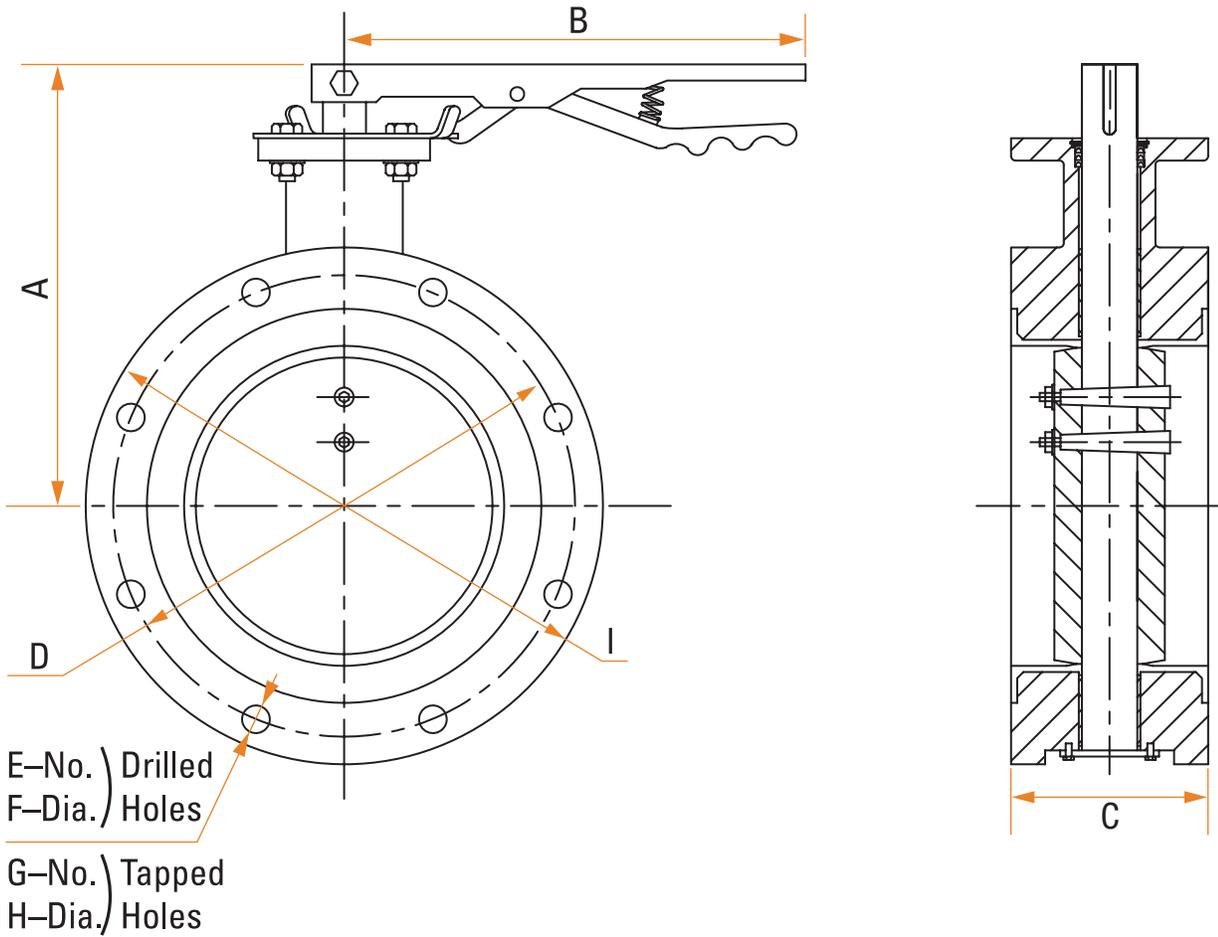
PAINT: All surfaces, with the exception of the rubber body interior, disc edge, and finished surfaces, are evenly coated with a high-quality epoxy.

TESTING: Valves are capable of 200 psi to facilitate field hydro-testing.

ACTUATION: Valves are suitable for lever, manual gear, pneumatic, and electric actuation.



3"– 8" HAND OPERATED FLANGED VALVE

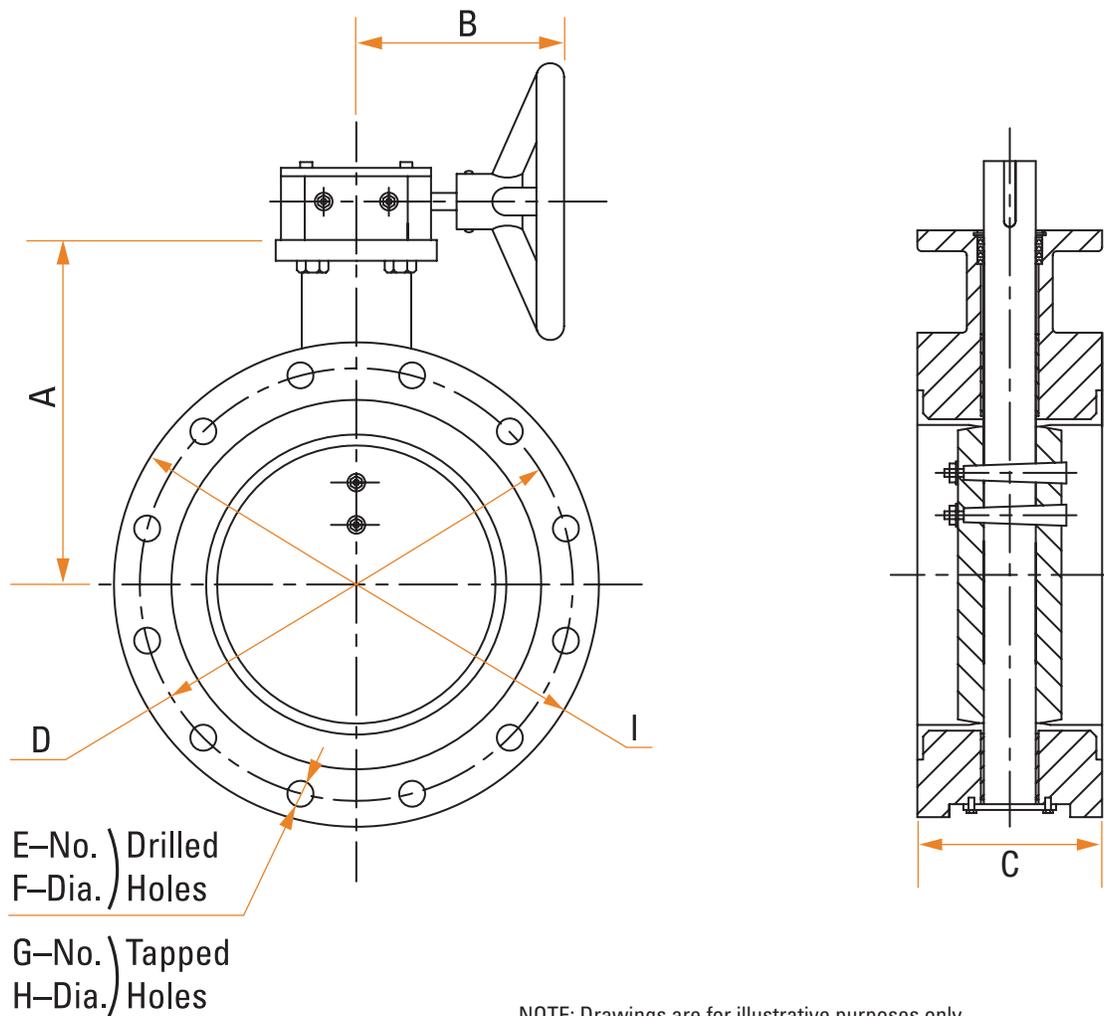


NOTE: Drawings are for illustrative purposes only.
Please request certified drawings for preparing layout and piping diagrams.

DIMENSIONAL TABLE

SIZE	A	B	C	D	E (NO.)	F	G (NO.)	H	I	WEIGHT (LBS.)
3	7.50	10.25	5.00	6.00	4	0.75	**	**	7.50	31
4	8.25	10.25	5.00	7.50	8	0.75	**	**	9.00	50
6	10.00	17.50	5.00	9.50	8	0.88	**	**	11.00	61
8	11.50	17.50	6.00	11.75	8	0.88	**	**	13.50	99

3"– 24" GEAR OPERATED FLANGED VALVE

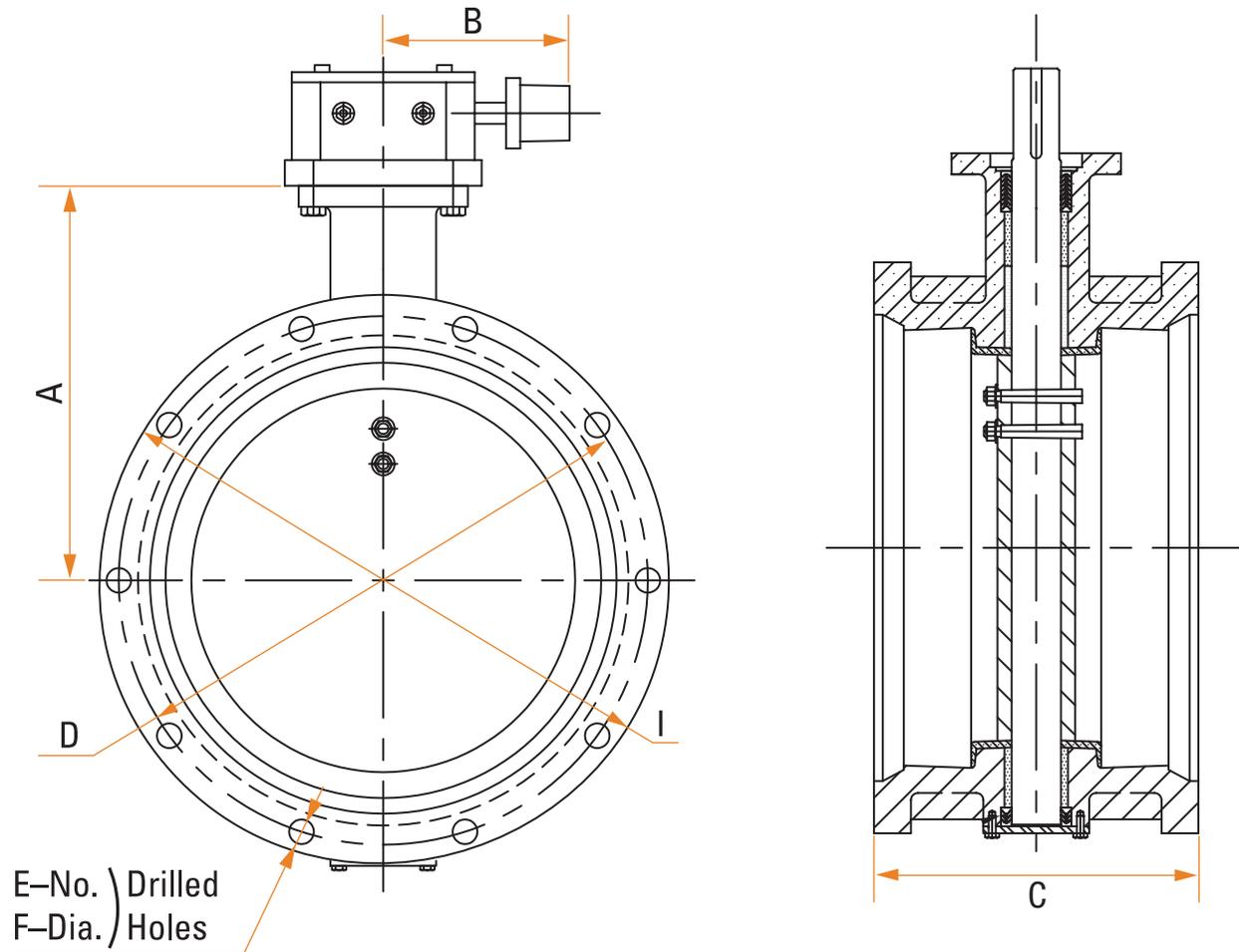


NOTE: Drawings are for illustrative purposes only.
Please request certified drawings for preparing layout and piping diagrams.

DIMENSIONAL TABLE

SIZE	A	B	C	D	E (NO.)	F	G (NO.)	H	I	WEIGHT (LBS.)
3	7.75	6.25	5.00	6.00	4	0.75	**	**	7.50	41
4	8.50	6.25	5.00	7.50	8	0.75	**	**	9.00	60
6	9.50	9.38	5.00	9.50	8	0.88	**	**	11.00	78
8	11.00	9.38	6.00	11.75	8	0.88	**	**	13.50	124
10	12.38	9.00	8.00	14.25	12	1.00	**	**	16.00	178
12	13.75	9.00	8.00	17.00	12	1.00	**	**	19.00	236
14	15.50	9.00	8.00	18.75	12	1.13	**	**	21.00	299
16	20.00	14.38	8.00	21.25	12	1.13	4	1.000-8	23.50	470
18	21.00	14.38	8.00	22.75	12	1.25	4	1.125-7	25.00	509
20	23.50	15.38	8.00	25.00	16	1.25	4	1.125-7	27.50	686
24	27.50	15.38	8.00	29.50	16	1.38	4	1.250-7	32.00	935

3"– 24" GEAR OPERATED MECHANICAL JOINT VALVE



NOTE: Drawings are for illustrative purposes only.
 Slotted holes not shown.
 Please request certified drawings for preparing layout and piping diagrams.

DIMENSIONAL TABLE

SIZE	A	B	C	D	E (NO.)	F	G (NO.)	H	I	WEIGHT (LBS.)
3	6.25	3.30	8.50	6.19	4	0.75	**	**	7.69	44
4	7.00	3.30	8.50	7.50	4	0.88	**	**	9.12	65
6	8.00	7.50	8.50	9.50	6	0.88	**	**	11.12	84
8	9.50	7.50	8.63	11.75	6	0.88	**	**	13.38	134
10	10.88	8.10	9.25	14.00	8	0.88	**	**	15.69	193
12	12.25	8.10	9.25	16.25	8	0.88	**	**	17.94	256
14	14.00	8.10	11.50	18.75	10	0.88	**	**	20.31	326
16	15.00	10.30	12.00	21.00	12	0.88	**	**	22.56	509
18	16.50	10.30	12.25	23.25	12	0.88	**	**	24.83	552
20	17.25	10.30	12.52	25.50	14	0.88	**	**	27.08	745
24	22.50	11.00	13.27	30.00	16	0.88	**	**	31.58	1013

SUGGESTED SPECIFICATIONS

Series 820 AWWA Butterfly Valve 3" – 24"



- Valves shall be of the rubber seat type, manufactured in accordance with AWWA C504, Class 150B, latest revision. Valves shall be bubble tight at the rated pressure, bi-directional, and be suitable for either on/off or throttling service. All valves shall be Homestead Series 820.
- Bodies shall be constructed of ASTM A536, Grade 65-45-12 ductile iron. Flanged valves shall be fully faced and drilled in accordance with ANSI B16.1, Class 125. Mechanical joint valves shall have ends conforming to ANSI/AWWA C111 A21.11.
- Discs shall be constructed of ASTM A536, Grade 65-45-12 ductile iron with a 316 stainless steel edge.
- Rubber body seats shall cover the entire interior through surface of the body. Seats shall be of one-piece construction and be bonded and vulcanized to the body. Mechanically retained seats are not acceptable.
- Shafts shall be constructed of ASTM A276, Type 316 stainless steel and be a one-piece design.
- Bearings shall be constructed of a non-metallic, corrosion-resistant, self-lubricating material. Bearings shall be a sleeve-type design, capable of horizontal or vertical shaft loading.
- Shaft packing shall be V-type chevron style. U-Cup or O-Ring packing is not acceptable.
- All valves shall be hydrostatic and seat leakage tested in strict accordance with AWWA C504.
- Manufacturer shall have a minimum of five years experience producing AWWA butterfly valves.

OVERVIEW

Homestead® Valve



Homestead® Valve, a division of Olson Technologies, Inc., is one of the world's leading manufacturers of industrial valves, serving the Water and Wastewater, Natural Gas, Asphalt, HVAC and OEM markets, to name a few.

Homestead AWWA Butterfly Valves, AWWA Eccentric Plug Valves and Lubricated Plug Valves are known throughout the world for unmatched dependability in some of the most demanding services.

Homestead Valve has been designing dependable products for over 120 years, and in that time we've learned to value performance above all else. Performance in engineering, performance in manufacturing, performance in inventory control and performance in sales have all added up to a highly reliable total valve company. But reliability in engineering, manufacturing, and inventory control is only part of the Homestead story. Our experienced support staff and the network of North American representatives assures our valves and our company will perform as well or better than expected.

PRODUCTS

Homestead® Valve

HOMESTEAD WATER PRODUCTS

- **Series 120**
AWWA Eccentric Plug Valves
Flanged 3" – 72"
Mechanical Joint 3" – 48"

- **Series 820**
AWWA Butterfly Valves
Flanged 3" – 24"
Mechanical Joint 3" – 24"

- **Series 840**
AWWA Butterfly Valves
Flanged 30" – 72"
Mechanical Joint 30" – 48"

HOMESTEAD INDUSTRIAL PRODUCTS

- **Series 600**
Class 125 Lubricated Plug Valves
2-Way, 3-Way and 4-Way
Reduced and Full Port
Rectangular, Round and Diamond Port
Flanged 1" – 24"
Threaded 1/2" – 4"

- **Series 700**
Class 250 Lubricated Plug Valves
Reduced and Full Rectangular Port
Flanged 2-1/2" – 18"
Threaded 1" – 4"

- **Series 60**
Threaded Butterfly Valves
Threaded and Grooved End
2", 3" and 4"