



WATER PRODUCTS
AWWA Butterfly Valves – AWWA Eccentric Plug Valves

Standard Product Submittal

Series 120 Class 125 AWWA Eccentric Plug Valve

Flanged Ends

3" – 24"



Series 120 AWWA Eccentric Plug Valve

Submittal Data:

- Scope:
 - 3” – 24” Class 125 AWWA Flanged Eccentric Plug Valve
- Submittal Documents
 - Standard Specification
 - Certificate of Compliance to AWWA C517
 - Drawing SK4034-F: 3”-6” Series 120/Flanged/2” Operating Nut
 - Drawing SK4039-K: 3”-12” Series 120/Flanged/Gear & Handwheel
 - Drawing SK4136-A: 14”-24” Series 120/Flanged/Gear & Handwheel
 - Pressure-Temperature Ratings
 - CV Data
 - Worm Gear Material Specifications
 - Worm Gear Technical Data
 - Installation, Operation & Maintenance

Series 120 Eccentric Plug Valves Standard Specification

- A. Valve design shall conform to AWWA C517 – Latest revision.
- B. Valves shall be rated for 175 psi CWP for sizes 3" through 12"; 150 psi CWP for valves 14" through 72".
- C. Bodies, caps and bonnets shall be made from gray iron castings, ASTM A126, Class B per AWWA C517, Section 4.4.1.5. Plugs shall be made from gray iron castings or ductile iron castings, ASTM A536 65-45-12 per AWWA C517, Section 4.4.3.1. Body wall thickness shall meet AWWA C517, Section 4.4.1.4.
- D. Plug elastomers shall be bonded in accordance with ASTM D429, Method B per AWWA C517, Section 4.4.5.
- E. End flanges shall be integral with the valve body. Flange drilling and thickness shall conform to ANSI B16.1 for pressure Class 125. Flanges shall be finished in accordance with MSS SP-6.
- F. Face-to-Face dimensions of flanged end valves shall conform to ANSI B16.10 up to and including 12" size.
- G. Mechanical joint ends shall conform to ANSI/AWWA C111/A21.11.
- H. Valves shall conform to MSS SP-108.
- I. Port areas of valves 24" and smaller shall be not less than 80% of pipe area; valves 30" and larger shall be not less than 70% of pipe area.
- J. Upper and lower bearings shall be replaceable, permanently lubricated 316 stainless steel.
- K. Seats shall be a minimum 1/8" thick 95% minimum nickel content.
- L. Stem seals shall be gland type multiple V-ring packing, field adjustable and replaceable without valve disassembly, conforming to AWWA C517, Section 4.4.7.



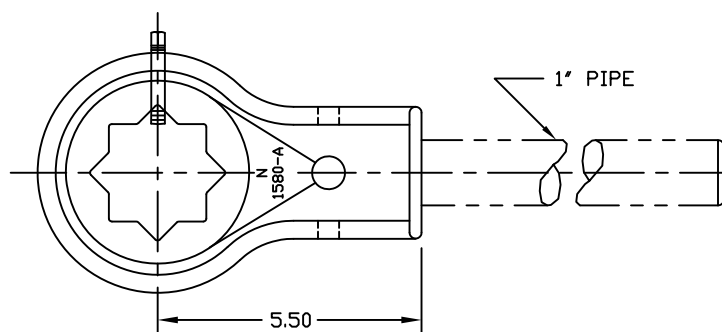
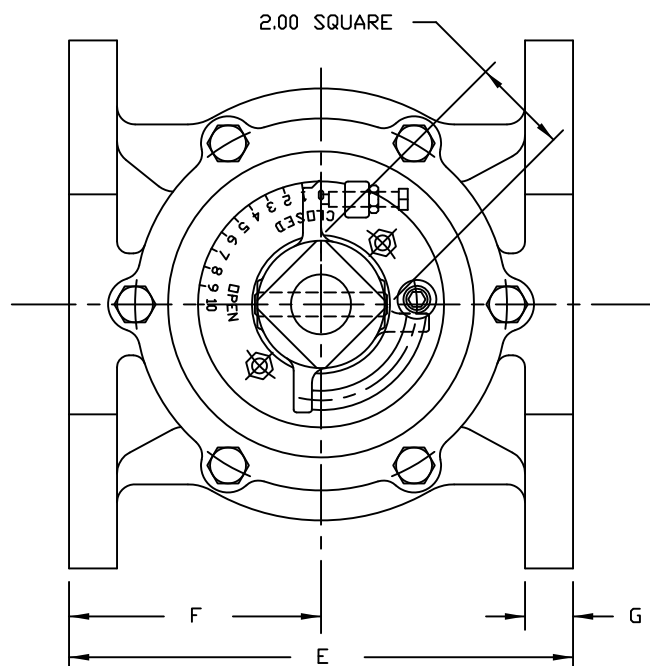
WATER PRODUCTS
AWWA Butterfly Valves - Eccentric Plug Valves

Homestead Series 120 Certificate of Compliance

This is to certify that the Homestead Series 120 AWWA Eccentric Plug Valves are in full compliance with the standards and requirements as specified in
AWWA C517-16
(Resilient Seated Cast-Iron Eccentric Plug Valves)

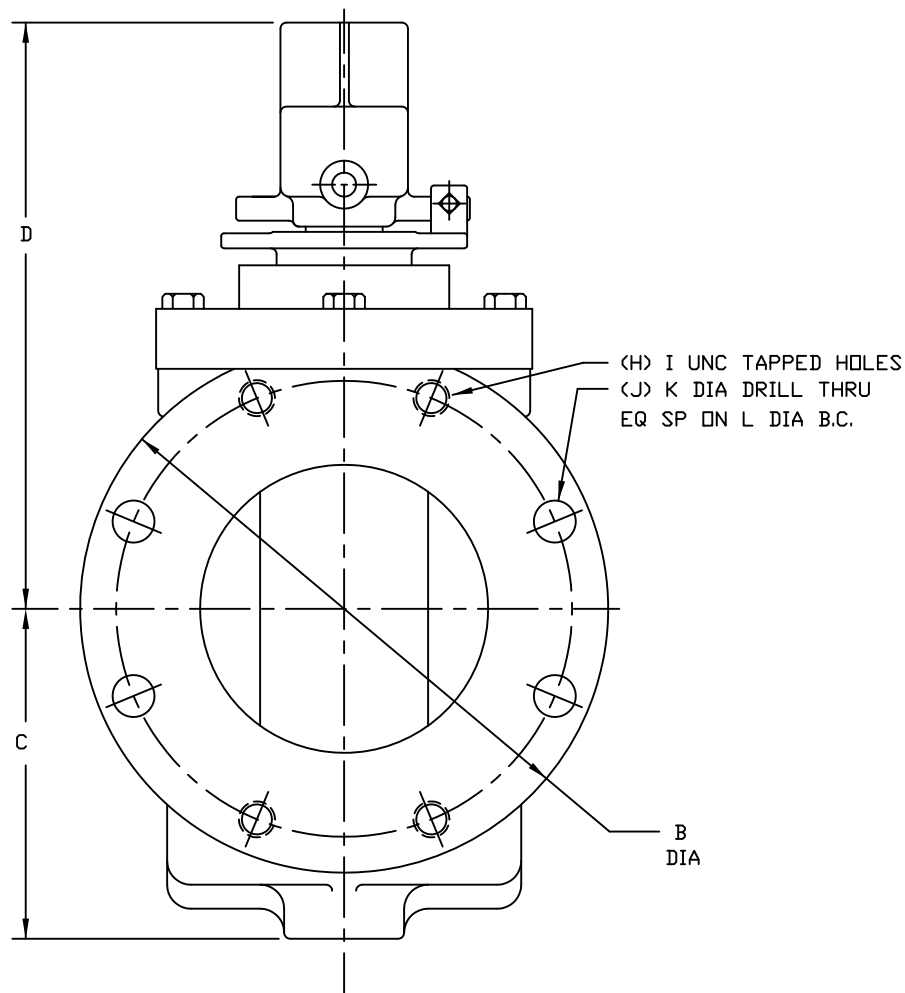
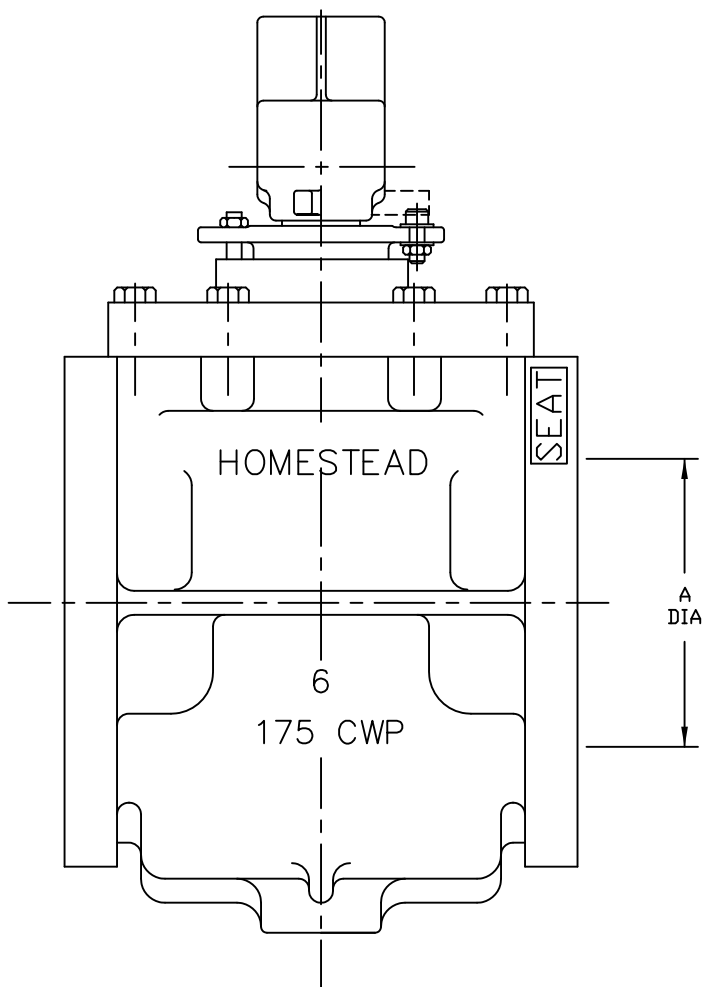
TABLE OF DIMENSIONS (INCHES)

VALVE SIZE	NEOPRENE PART NO.	NITRILE PART NO.	EPDM PART NO.	A	B	C	D	E	F	G	H	I	J	K	L
3.00	1261870030	1262670030	1269770030	3.00	7.50	4.28	9.53	8.00	4.00	.75	-	-	4	.750	6.00
4.00	1261870040	1262670040	1269770040	4.00	9.00	5.18	10.38	9.00	4.50	.94	-	-	8	.750	7.50
5.00	1261870050	1262670050	1269770050	5.00	10.00	5.18	10.38	10.00	5.00	.94	-	-	8	.875	8.50
6.00	1261870060	1262670060	1269770060	6.00	11.00	6.88	12.21	10.50	5.25	1.00	4	.75-10	4	.875	9.50



N WRENCH SOLD SEPARATELY WITHOUT PIPE HANDLE

- NOTES:
- 1. VALVES ARE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C517-09, "RESILIENT-SEATED CAST IRON ECCENTRIC PLUG VALVES."
 - 2. END FLANGE DIMENSIONS AND DRILLING ARE IN ACCORDANCE WITH ASME/ANSI B16.1, CLASS 125, "CAST IRON PIPE FLANGES AND FLANGE FITTINGS."
 - 3. PAINT: BLUE - SEMI-GLOSS METAL PRIMER
 - 4. ELASTOMERS AVAILABLE IN NITRILE, EPDM, NEOPRENE, VITON



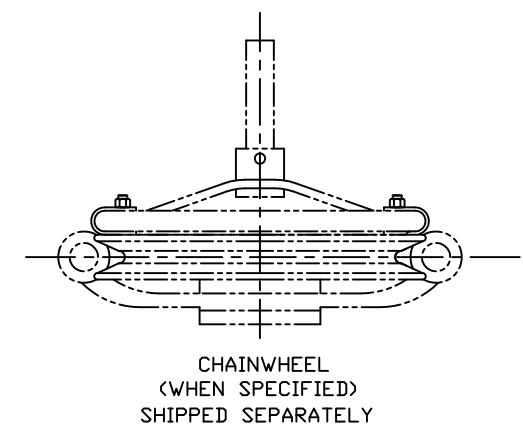
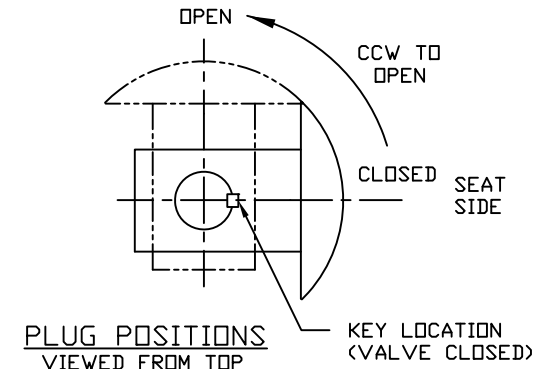
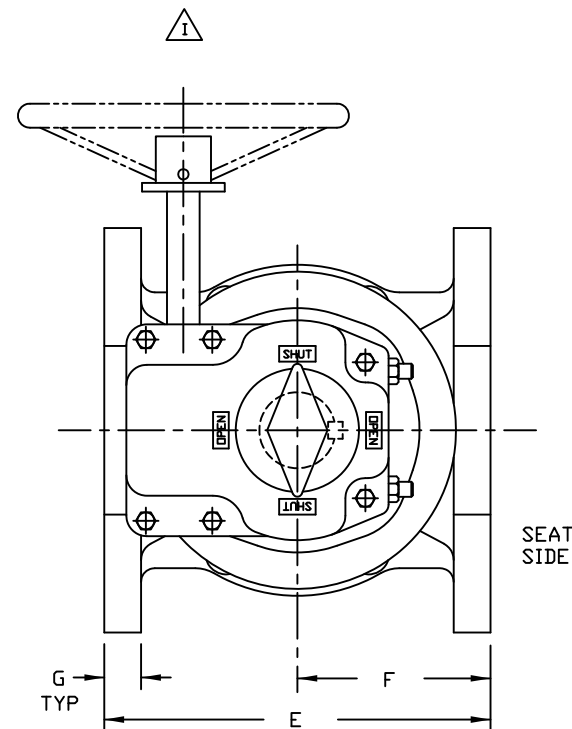
21	PIPE PLUG	A126 CLB
20	STOP BOLT	STEEL, ZINC PLATED
19	CAP SCREW	STEEL, ZINC PLATED
18	FLAT WASHER	STEEL, ZINC PLATED
17	JAM NUT	STEEL, ZINC PLATED
16	MEMORY BOLT	STEEL
15	PIN	STAINLESS STEEL
14	STOP COLLAR	A126 CLB
13	SEAL	SEE NOTE 4
12	BRAKE RING	POLYMER
11	JAM NUT	STEEL, ZINC PLATED
10	STUD	STEEL, ZINC PLATED
9	MEMORY PLATE	A126 CLB
8	PACKING	V-RING/SEE NOTE 4
7	RADIAL BEARING	PERM. LUBRICATED 316SS
6	THRUST BEARING	PTFE
5	THRUST BEARING	PTFE
4	RADIAL BEARING	PERM. LUBRICATED 316SS
3	COVER PLATE	A126 CLB
2	PLUG	A126 CLB/SEE NOTE 4
1	BODY	A126 CLB/NICKEL SEAT
NO.	PART NAME	MATERIAL

PARTS LIST

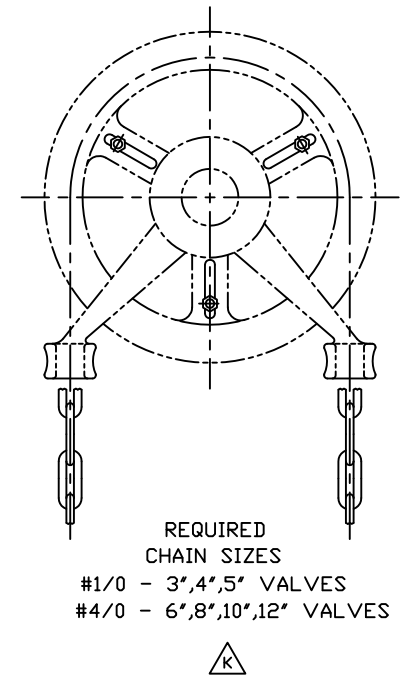
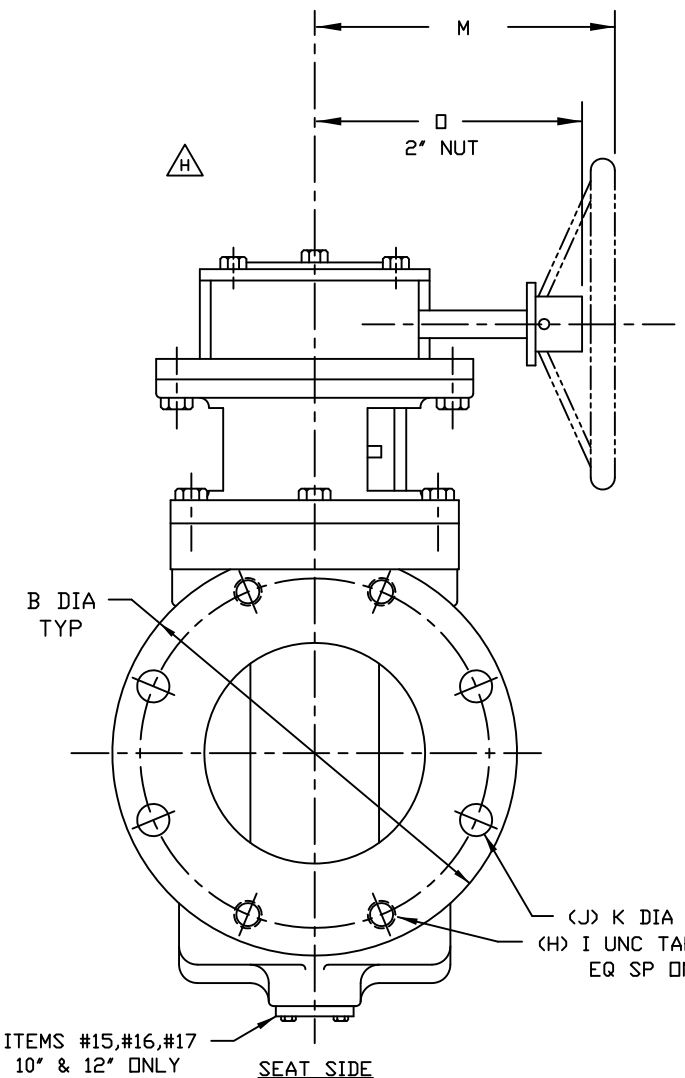
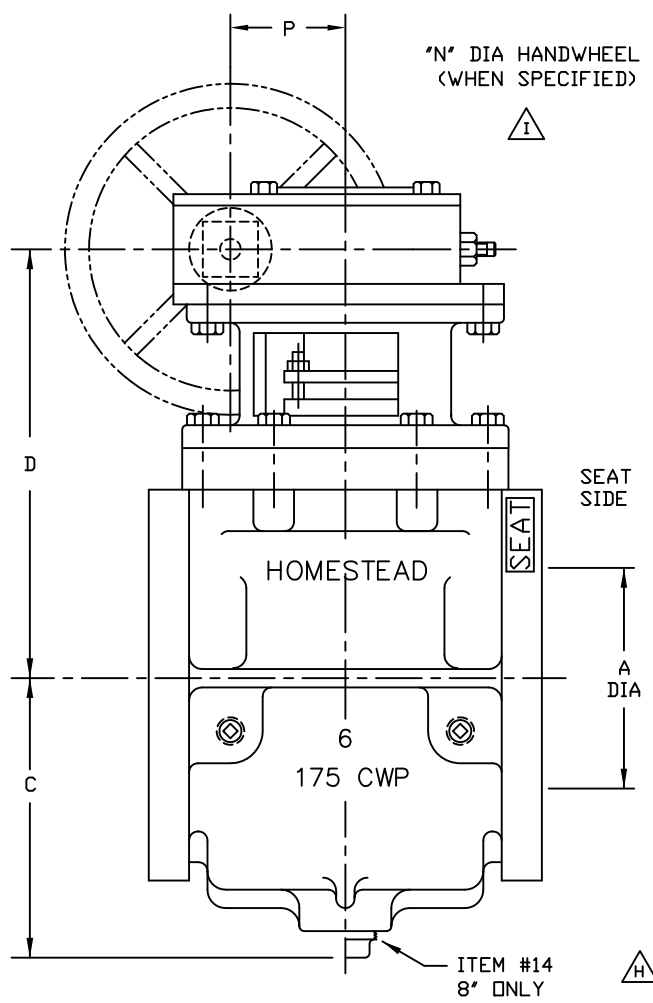
HOMESTEAD® VALVES					
A DIVISION OF OLSON TECHNOLOGIES, INC.					
160 WALNUT ST. ALLENTOWN, PA. 18102 (610) 770-1100					
F	S1600	RH		9/10/14	TITLE
E	S1421	RH	DED	5/10/12	3"-6" ECCENTRIC PLUG VALVE w/ 2" SQ NUT
D	S1122	RH	DED	5/18/09	
C	S331	RH	DED	6/20/02	
REV	ISSUE	BY	APPR	DATE	NUMBER
					SK-4034

TABLE OF DIMENSIONS (INCHES)

VALVE SIZE-A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
3.00	7.50	4.28	7.16	8.00	4.00	.75	-	-	4	.750	6.00	7.31	6.00	6.75	2.76
4.00	9.00	5.18	7.92	9.00	4.50	.94	-	-	8	.750	7.50	7.31	6.00	6.75	2.76
5.00	10.00	5.18	7.92	10.00	5.00	.94	-	-	8	.875	8.50	7.31	6.00	6.75	2.76
6.00	11.00	6.88	11.66	10.50	5.25	1.00	4	.75-10	4	.875	9.50	7.62	12.00	6.75	2.76
8.00	13.50	9.14	13.50	11.50	5.75	1.12	4	.75-10	4	.875	11.75	8.19	12.00	7.25	3.54
10.00	16.00	10.06	16.88	13.00	6.50	1.19	4	.88-9	8	1.00	14.25	8.19	12.00	7.25	3.54
12.00	19.00	14.71	19.38	14.00	7.00	1.25	4	.88-9	8	1.00	17.00	8.19	12.00	7.25	3.54



- NOTES:
- VALVES ARE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C517-09, "RESILIENT-SEATED CAST IRON ECCENTRIC PLUG VALVES."
 - END FLANGE DIMENSIONS AND DRILLING ARE IN ACCORDANCE WITH ASME/ANSI B16.1, CLASS 125, "CAST IRON PIPE FLANGES AND FLANGE FITTINGS."
 - PAINT: BLUE - SEMI-GLOSS METAL PRIMER
 - ELASTOMERS AVAILABLE: BUNA-N, EPDM, NEOPRENE, VITON

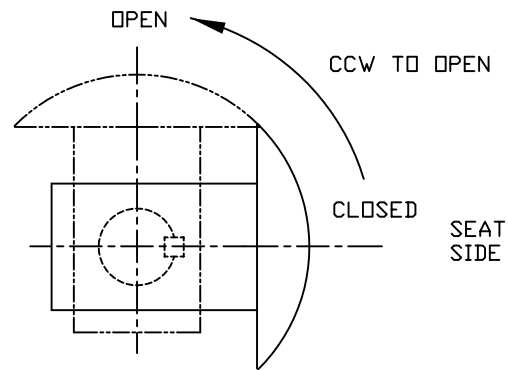
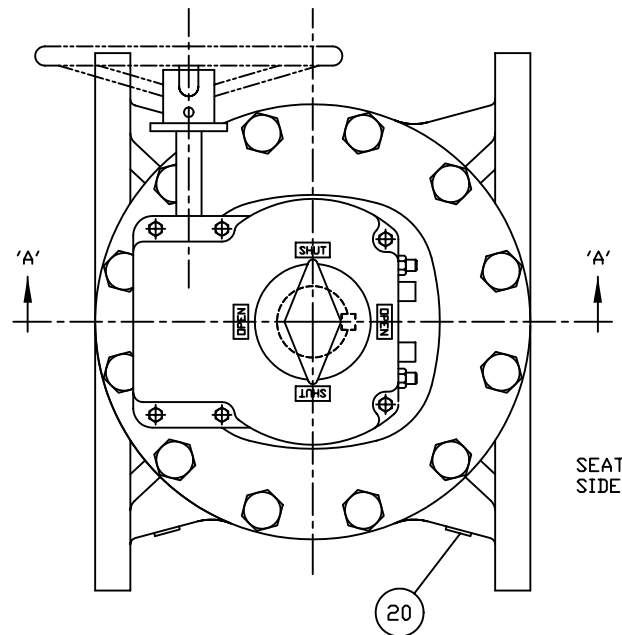


23	CHAINWHEEL ASSY	WHEN SPECIFIED
22	PIPE PLUG	A126 CLB
21	KEY	STEEL
20	GEAR	COMMERCIAL
19	CAP SCREW	STEEL, ZINC PLATED
18	COVER PLT (6")	A126 CLB
17	CAP SCREW (10" & 12")	STEEL, ZINC PLATED
16	SEAL (10" & 12")	SEE NOTE 4
15	BOTTOM PLT (10" & 12")	A126 CLB
14	BOTTOM PLUG (8")	A126 CLB
13	SEAL	SEE NOTE 4
12	HEX NUT	STEEL, ZINC PLATED
11	STUD	STEEL, ALLOY
10	PACKING GLAND	A126 CLB
9	PACKING	V-RING, SEE NOTE 4
8	RADIAL BEARING	PERM. LUBRICATED 316SS
7	THRUST BEARING	PTFE
6	THRUST BEARING	PTFE
5	RADIAL BEARING	PERM. LUBRICATED 316SS
4	CAP SCREW	STEEL, ZINC PLATED
3	MTG BRACKET	A126 CLB
2	PLUG 10", 12"	A536 65-45-12/NOTE 4
	PLUG 3", 4", 5", 6", 8"	A126 CLB/SEE NOTE 4
1	BODY	A126 CLB/NICKEL SEAT
NO.	PART NAME	MATERIAL

PARTS LIST

HOMESTEAD® VALVES
 A DIVISION OF OLSON TECHNOLOGIES, INC.
 160 WALNUT ST. ALLENTOWN, PA. 18102 (610) 770-1100

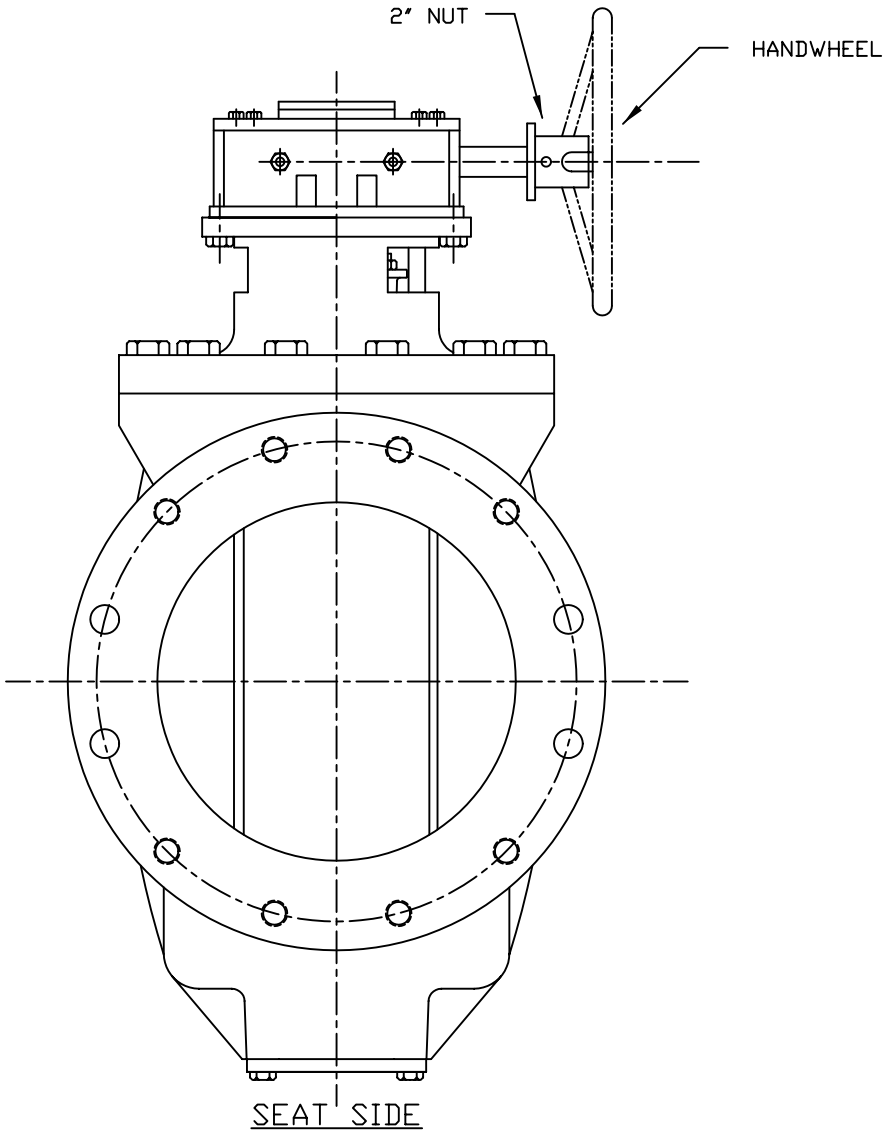
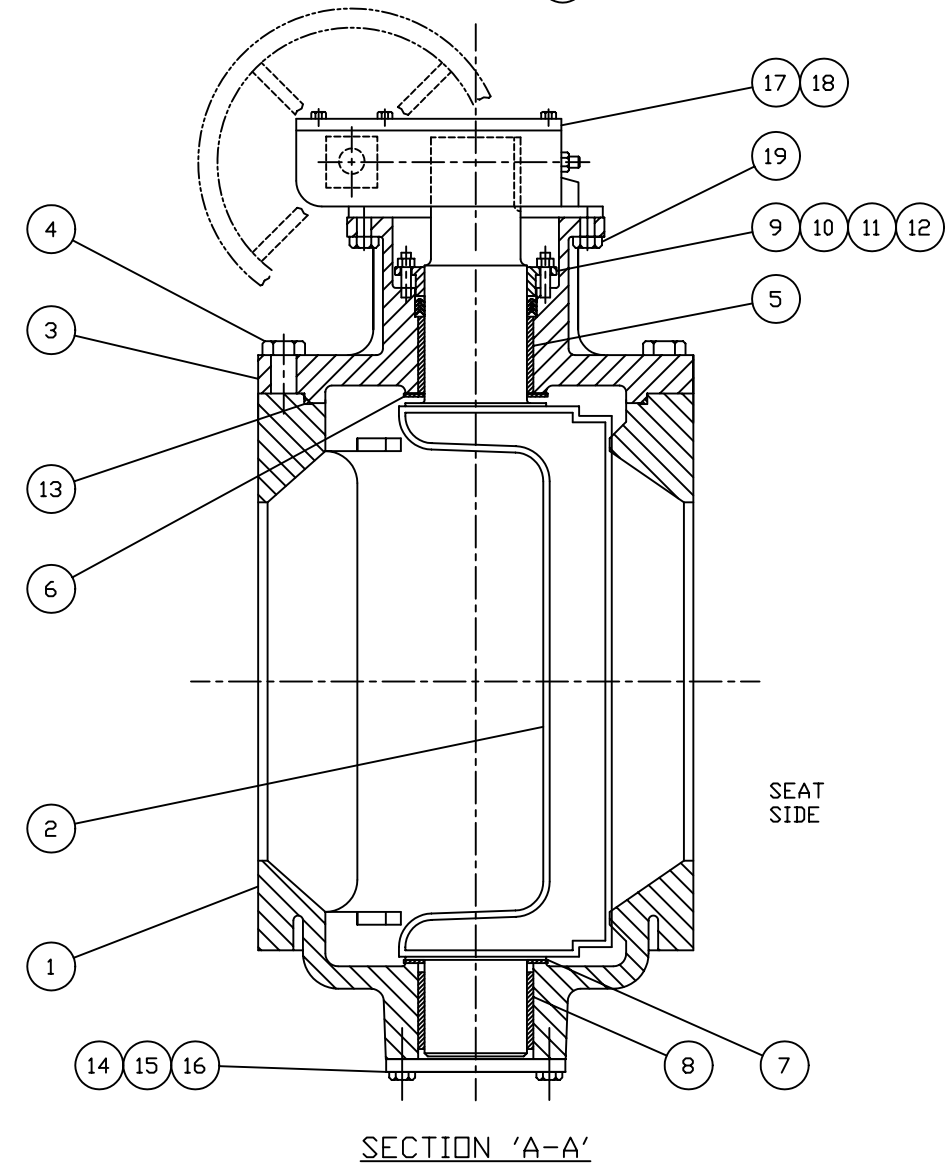
REV	ISSUE	BY	APPR	DATE	TITLE	NUMBER
K	S1600	RH		6/18/14	3"-12" ECCENTRIC PLUG VALVE w/ GEAR	SK-4039
J	S1421	RH	DED	5/10/12		
I	S1298	RH	DED	1/25/11		
H	S1249	RH	DED	7/1/10		
REV	ISSUE	BY	APPR	DATE		



PLUG POSITIONS
VIEWED FROM TOP

NOTES:

1. VALVES ARE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C517-09, RESILIENT-SEATED CAST IRON ECCENTRIC PLUG VALVES
2. VALVES ARE RATED AT 150 PSI CWP AND APPLICABLE FOR SERVICE TEMPERATURES FROM 33° THROUGH 125°F
3. END FLANGE DIMENSIONS AND DRILLING ARE IN ACCORDANCE WITH ASME/ANSI B16.1, CLASS 125 FOR CAST IRON PIPE FLANGES AND FLANGE FITTINGS.
4. VALVES ARE TESTED IN ACCORDANCE WITH ANSI/AWWA C517-09 AS FOLLOWS:
LEAKAGE TEST:
DIRECT PRESSURE: 150 PSI FOR 30 SECONDS
HYDROSTATIC TEST: 225 PSI FOR 60 SECONDS
5. PAINT: BLUE - SEMI-GLOSS METAL PRIMER
6. VALVE SEATS ARE NICKEL
7. ELASTOMERS AVAILABLE IN NITRILE, EPDM, NEOPRENE



20	PIPE PLUG	IRON
19	CAPSCREW	STEEL, ZINC PLATED
18	KEY	STEEL
17	GEAR	w/HANDWHEEL OR 2"NUT
16	SEAL	SEE NOTE 7
15	CAPSCREW	STEEL, ZINC PLATED
14	COVER PLATE	A126 CLB
13	SEAL	SEE NOTE 7
12	HEX NUT	STEEL, ZINC PLATED
11	STUD	STEEL, ZINC PLATED
10	PACKING GLAND	A126 CLB
9	PACKING	V-RING, SEE NOTE 7
8	BOT RADIAL BRG	SELF-LUBRICATED
7	BOT THRUST BRG	PTFE
6	TOP THRUST BRG	PTFE
5	TOP RADIAL BRG	SELF-LUBRICATED
4	CAPSCREW	STEEL, ZINC PLATED
3	CAP	A126 CLB
2	PLUG	A536 65-45-12/NOTE 7
1	BODY	A126 CLB

NO.	PART NAME	MATERIAL
PARTS LIST		
HOMESTEAD VALVES		
A DIVISION OF OLSON TECHNOLOGIES, INC.		
160 WALNUT ST. ALLENTOWN, PA. 18102 (610) 770-1100		
		TITLE
		14"-24" E126
		ECCENTRIC PLUG VALVE
A	S1335 RH	6/10/11 NUMBER
REV	ISSUE	BY APPR DATE
		SK-4136



Series 120 Eccentric Plug Valves
Maximum Non-Shock
Pressure / Temperature Ratings

Service Temperature <u>Degrees (F)</u>	Pressure Rating (PSIG)	
	<u>1" - 12"</u>	<u>14" - 24"</u>
to +100	175	150
to +150	175	150
to +200	150	135



Series 120 AWWA Eccentric Plug Valves CV Values

<u>Valve Size</u>	<u>CV Value</u>
3"	335
4"	575
6"	1,200
8"	2,025
10"	3,150
12"	4,150
14"	5,500
16"	7,250
18"	9,800
20"	13,500
24"	17,500

CV = Flow of water in GPM at one PSI pressure drop.

Series 120 Worm Gear Actuators

Materials and Specifications

Above Ground and Buried Service

- A. Actuator design conforms to the applicable requirements of AWWA C517-09.
- B. Actuators are totally enclosed in an ASTM A126 Class B cast iron housing.
- C. Worm gears are ASTM A536, 65-45-12 ductile iron.
- D. Worm shafts and worms are ASTM A108, Grade 1045 carbon steel.
- E. Shaft and worm gear bearings are Cu-based alloy.
- F. Actuators are designed to produce torque sufficient to operate the valve at a shutoff pressure differential equal to the design pressure of the valve.
- G. Actuators have a maximum rim pull of 80 pounds on a handwheel and 150 foot pounds on an operating nut.
- H. Actuators have mechanical, externally adjustable open and closed position stop-limiting screws
- I. Gearing is self-locking and designed to hold the plug in any intermediate or end position without fluttering.
- J. Actuators open left (counter-clockwise).
- K. Above ground actuators have an indicator arrow and open and closed markings on the cover.
- L. Buried service actuators totally sealed and are a minimum 90% grease packed.



Series 120 Eccentric Plug Valve Worm Gear Actuators – Technical Data Above Ground and Buried Service

VALVE SIZE	GEAR MODEL #	GEAR RATIO	TURNS TO CLOSE	MAX INPUT TORQUE FOOT #S	MAX OUTPUT TORQUE FOOT #S	MECHANICAL ADVANTAGE %	MAX INPUT TORQUE AT NUT FOOT #S	HANDWHEEL RIM EFFORT POUNDS	HANDWHEEL DIAMETER INCHES
3	WJS-2	42:1	10.5	65	738	12	65	20.5	6
4	WJS-2	42:1	10.5	65	738	12	65	20.5	6
5	WJS-2	42:1	10.5	65	738	12	65	20.5	6
6	WJS-2	42:1	10.5	65	738	12	65	10.3	12
8	WJS-3	58:1	13.5	90	1,328	15.8	90	14.0	12
10	WJS-3	58:1	13.5	90	1,328	15.8	90	14.0	12
12	WJS-3	58:1	13.5	90	1,328	15.8	90	14.0	12
14	WJS-4	68:1	17	125	2,509	20.5	125	20.4	12
16	WJS-5	88:1	22	125	3,321	26.5	125	15.7	16
18	WJS-5	88:1	22	125	3,321	26.5	125	10.4	24
20	W308	275:1	69	142	9,800	68.8	142	9.5	30
24	W308	275:1	69	142	9,800	68.8	142	9.5	30
30	IW72	360:1	90	103	14,625	142.0	103	5.7	36
36	IW85	720:1	180	120	34,200	285.0	120	6.7	36
42-BS	IW9	960:1	251	132	50,080	380.0	132		
42-AG	IW10	1080:1	270	120	51,360	428.0	120	6.7	36
48-BS	IW10	1080:1	270	146	62,390	428.0	146		
48-AG	IW11	1080:1	270	160	68,480	428.0	160	6.7	48



WATER PRODUCTS
AWWA Butterfly Valves - Eccentric Plug Valves

Series 120 Eccentric Plug Valves

Installation, Operation and Maintenance



Series 120 Eccentric Plug Valves

Installation, Operation and Maintenance

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Series 120 Eccentric Plug Valves

Installation, Operation and Maintenance

GENERAL

The Homestead Series 120 Eccentric Plug Valve is asymmetrical in design and will better seal against higher pressures when the line pressure is applied from the end opposite the seat end of the valve. If sealing against pressure applied from the seat end is critical (i.e. head pressure in HVAC systems), valves tested for this condition should be used.

UNLOADING

Improper lifting of the valve may cause damage. Do not lift the valve using the actuator, plug stem or body opening. Use eye bolts or rods through the flange holes and attach slings or chain.

STORAGE

Valves are shipped in the open position and should be stored in this position until ready for installation.

Flange end protectors, if supplied, should be kept on the valves until they are ready for installation. Mechanical joint ends should be protected to prevent damage to the pipe seating area.

Valves should be stored in a manner where foreign material is prevented from entering the inside of the valve. Exposure to direct sunlight on the plug elastomer should be avoided.



Series 120 Eccentric Plug Valves

Installation, Operation and Maintenance

STORAGE (continued)

Electric, pneumatic and hydraulic valve actuators should be cared for in accordance with the storage recommendations of the actuator manufacturer.

CONNECTIONS

Mating flanges must comply with ASME/ANSI B16.1, Class 125 or ASME/ANSI B16.5, Class 150. Mechanical joint connections must comply with ANSI A21.11/AWWA C111.

ORIENTATION

Although the valves are designed to operate in any position, it is recommended that the valve be installed as follows:

- Liquids & Gases Service:
Install the valve with the seat end downstream of the greater pressure.
- Pump Discharge Service:
Install the valve with the seat end towards the pump.
- Suspended Solids Service:
 - Vertical Pipeline – install the valve with the plug in the horizontal position, with the seat end at the top.
 - Horizontal Pipeline – install the valve with the plug in the horizontal position, opening in the upward direction.



Series 120 Eccentric Plug Valves

Installation, Operation and Maintenance

ORIENTATION (continued)

Note:

The word "Seat" is cast on the outside of the flange on the seat end of the valve.

INSTALLATION

1. Prior to installation, all foreign material that could damage the resilient seat should be removed from the valve, adjacent pipe areas and pipeline.
2. Prepare the faces of the mating flanges by thoroughly cleaning with a suitable solvent.
3. Position the valve between the mating flanges of the pipeline.
4. Align the upstream gasket to the body holes and the corresponding bolt holes of the pipeline flange.
5. Insert (2) bolts at the bottom of the flange to aid in supporting and aligning the valve.
6. Insert the remaining bolts around the flange and lightly tighten.
7. Repeat this procedure on the downstream flange.
8. Final tightening of all bolts should be done by tightening those bolts opposite each other in alternate sequence.



Series 120 Eccentric Plug Valves

Installation, Operation and Maintenance

OPERATION – MANUAL ACTUATION

Verify that the valve is operating properly by manually cycling. The valve plug should operate freely. If the valve is electrically, pneumatically or hydraulically actuated, use the manual override system to perform this operation. The normal rotational direction of the valve is “clockwise to close”.

OPERATION – POWER ACTUATION

Check the source of supply and verify that all necessary pneumatic or electrical connections are compatible with the actuator requirements. After connection of the actuator power supply, cycle the valve several times to determine whether the connections are correct and that the valve is performing properly. All stops, limit switches and torque switches are set at the factory and should require no adjustment.

MAINTENANCE - Valve

The Homestead Series 120 valve has been designed for long service life. Outside of periodic adjustment or replacement of the packing, this valve does not require routine maintenance.



Series 120 Eccentric Plug Valves

Installation, Operation and Maintenance

MAINTENANCE – Manual Gear

The manual gear units are factory lubricated with grease and should not require maintenance. If relubrication is required, a lithium based grease should be used.

PACKING REPLACEMENT

1. Remove the packing gland nuts from the studs.
2. Slide the packing gland up the plug stem.
3. Completely remove the old packing from the chamber in the bonnet. Be careful not to score the surface of the plug stem or the packing chamber as this may create a leak path.
4. Cut each new packing ring in one spot diagonally with a sharp knife.
5. Place new packing rings one at a time around the plug stem and into the packing chamber. Be certain that the male base ring is installed first, followed by the inner rings, then the female top ring. Be certain to stagger the cut joints.
6. Slide the packing gland down into the packing chamber on top of the new rings.
7. Replace the packing gland nuts on the studs. Tighten slowly until they engage the packing gland, then tighten one more turn. Be certain that each nut is tightened evenly.



Series 120 Eccentric Plug Valves

Installation, Operation and Maintenance

PACKING REPLACEMENT (continued)

8. Restore the pipeline pressure and check for leakage. If needed, tighten each packing nut evenly until the leakage stops. Do not over-tighten.

REMOVING VALVE

1. Improper lifting of the valve may cause damage. Do not lift the valve using the actuator, plug stem or body opening. Use eye bolts or rods through the flange holes and attach slings or chain.
2. Support the valve before removing flange or mechanical joint connections, then remove valve from pipeline.

DISASSEMBLY

1. Relieve the pipeline pressure and close the valve.
2. If power actuated, disconnect the air or electric supply.
3. Remove the actuator assembly.
4. Mark the body, plug stem and bonnet positions to help with alignment during reassembly.
5. Remove the bonnet bolts and remove bonnet.
6. Remove the packing gland and packing.
7. Remove the plug.
8. Remove the upper and lower bearings.



Series 120 Eccentric Plug Valves

Installation, Operation and Maintenance

REASSEMBLY

1. Insert the lower bearing into the valve body.
2. Lubricate the lower plug stem journal with Mobilgrease FM 101 or equal.
3. Insert the plug into the valve body placing the lower journal into the lower bearing.
4. Insert the upper bearing into the valve bonnet.
5. Lubricate the upper plug stem journal with Mobilgrease FM 101 or equal.
6. Place the bonnet on the valve using the alignment marks.
7. Turn plug to the closed position using the alignment marks.
8. Tighten the bonnet bolts
9. Install the packing and packing gland. Tighten gland nuts until they contact the gland, then turn one additional turn.
10. Install the actuator.
11. Restore the pipeline pressure and check for leaks.
12. If required, tighten the packing gland nuts only until the leaks stop. Do not over tighten.

Series 120 Eccentric Plug Valves

Installation, Operation and Maintenance

ADJUSTING ACTUATOR CLOSED POSITION STOPS

1. Relieve pipeline pressure and draw down water in the pipeline.
2. Loosen the nut on the Closed (right) position stop screw.
3. Back out the stop screw three turns CCW.
4. Close the valve until the disc can be felt fully contacting the seat.
5. Turn the stop screw CW until contact with the internal stop can be felt.
6. Tighten the stop screw nut.

ADJUSTING ACTUATOR OPEN POSITION STOPS

1. Relieve pipeline pressure and draw down water in the pipeline.
2. Loosen the nut on the Open (left) position stop screw.
3. Back out the stop screw three turns CCW.
4. Open the valve until the gearbox indicator points to open.
5. Turn the stop screw CW until contact with the internal stop can be felt.
6. Tighten the stop screw nut.



Series 120 Eccentric Plug Valves

Installation, Operation and Maintenance

TROUBLE SHOOTING

<u>Problem</u>	<u>Possible Cause</u>	<u>Solution</u>
Valve will not open.....	Obstruction in line.....	Remove obstruction
Valve will not close.....	Excessive line pressure.....	Reduce line pressure
“	Plug elastomer damage.....	Replace plug
Valve leaks through.....	Improper stop adjustment.....	Adjust closed stop
“	Obstruction in line.....	Remove obstruction
“	Excessive line pressure.....	Reduce line pressure
“	Plug elastomer damage.....	Replace plug
Valve leaks at stem.....	Improper packing adjustment...	Tighten packing rings
“	Damaged packing.....	Replace packing

SPARE PARTS

<u>Item</u>	<u>Qty per Valve</u>
Set v-ring packing.....	1
Radial bearings.....	2
Thrust bearings.....	2
O-ring seal.....	1
Plug.....	1



Series 120 Eccentric Plug Valves

Installation, Operation and Maintenance

HOW TO ORDER PARTS

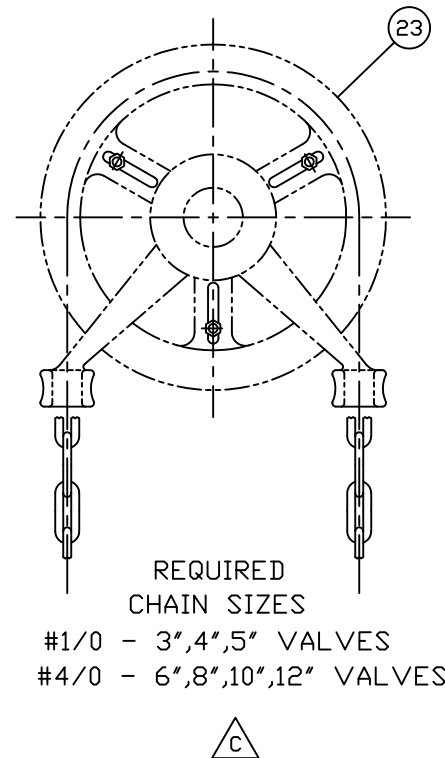
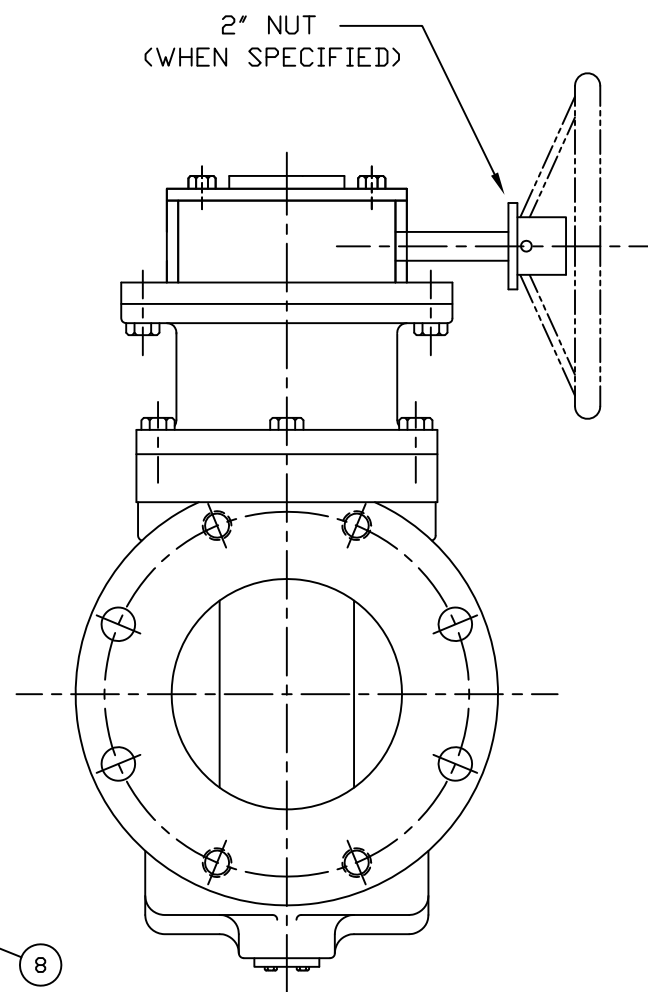
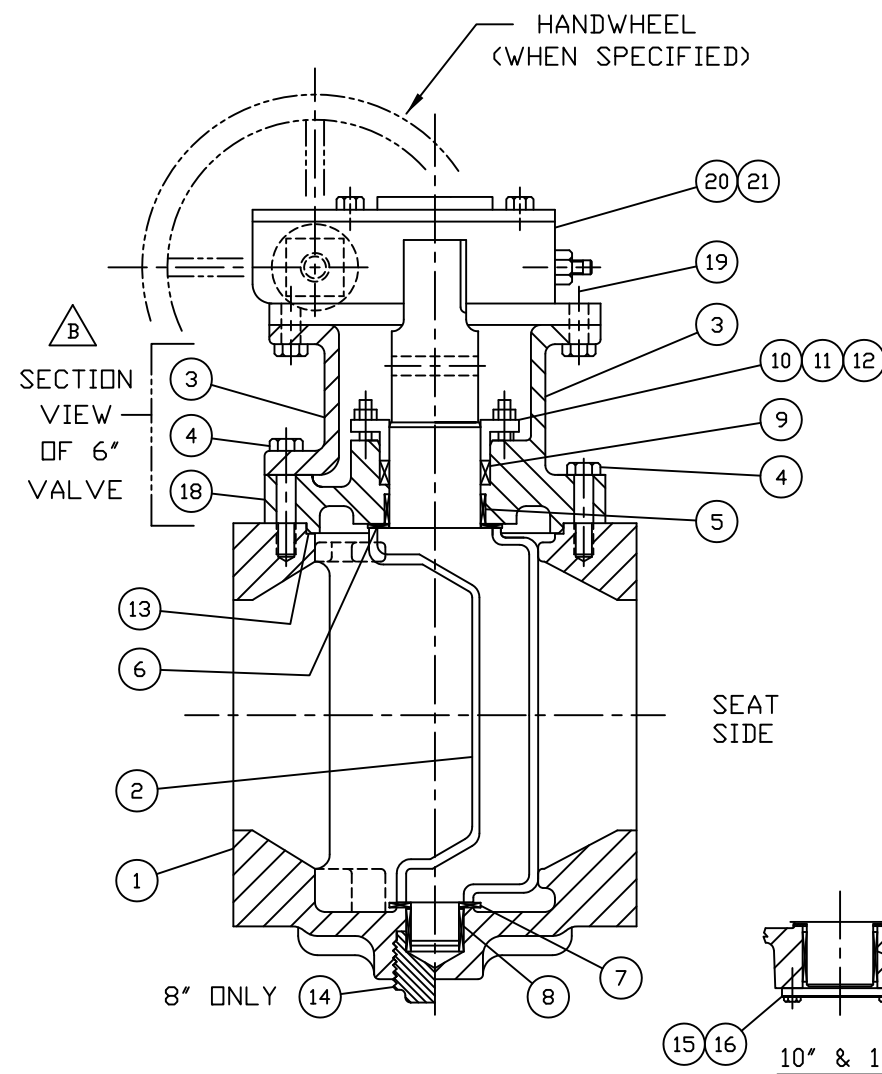
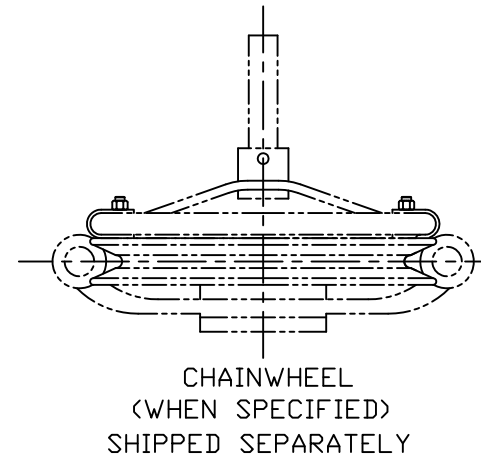
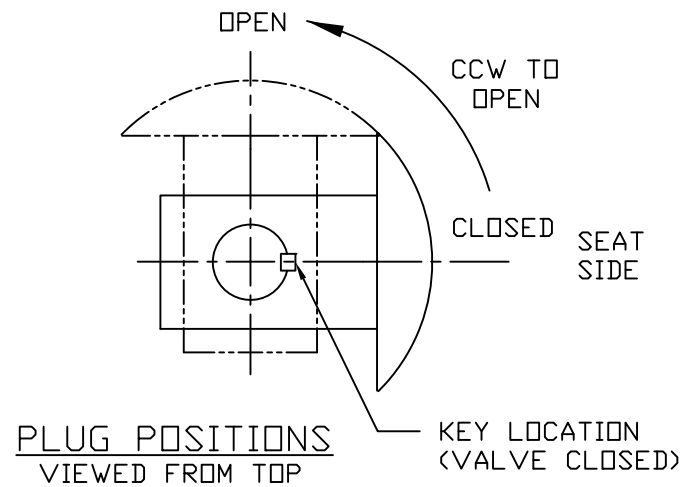
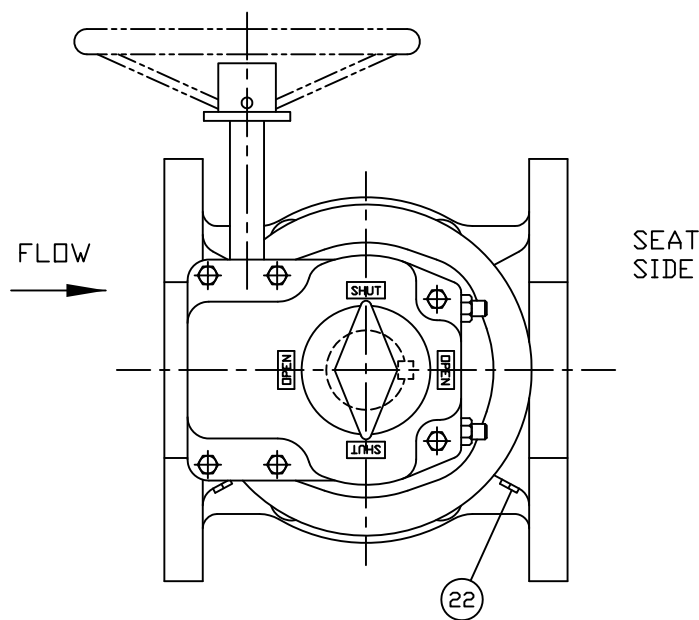
Phone: 610-770-1100

Fax: 610-770-1108

Email: sales@homesteadvalve.com

Please include the following with your inquiry:

- Valve size
- Valve model number
- Operating service
- Original PO#
- Detailed description of part



NOTES:

1. VALVES ARE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C517-09, "RESILIENT-SEATED CAST IRON ECCENTRIC PLUG VALVES."
2. END FLANGE DIMENSIONS AND DRILLING ARE IN ACCORDANCE WITH ASME/ANSI B16.1, CLASS 125 FOR CAST IRON PIPE FLANGES AND FLANGE FITTINGS.
3. PAINT: BLUE - SEMI-GLOSS METAL PRIMER
4. ELASTOMERS AVAILABLE: BUNA-N
EPDM
NEOPRENE
VITON

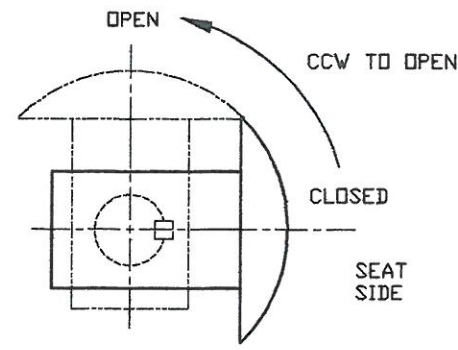
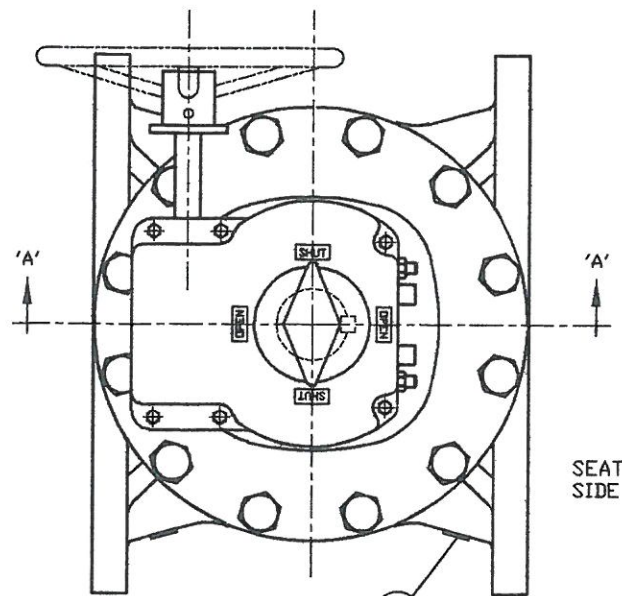
ALL DIMENSIONS IN INCHES

23	CHAINWHEEL ASSY	WHEN SPECIFIED
22	PIPE PLUG	A126 CLB
21	KEY	STEEL
20	GEAR	COMMERCIAL
19	CAP SCREW	STEEL, ZINC PLATED
18	COVER PLT (6")	A126 CLB
17	CAP SCREW (10"&12")	STEEL, ZINC PLATED
16	SEAL (10"&12")	SEE NOTE 4
15	BOTTOM PLT (10"&12")	A126 CLB
14	BOTTOM PLUG (8")	A126 CLB
13	SEAL	SEE NOTE 4
12	HEX NUT	STEEL, ZINC PLATED
11	STUD	STEEL, ALLOY
10	PACKING GLAND	A126 CLB
9	PACKING	V-RING, SEE NOTE 4
8	RADIAL BEARING	PERM. LUBRICATED 316SS
7	THRUST BEARING	PTFE
6	THRUST BEARING	PTFE
5	RADIAL BEARING	PERM. LUBRICATED 316SS
4	CAP SCREW	STEEL, ZINC PLATED
3	MTG BRACKET	A126 CLB
2	PLUG 10",12"	A536 65-45-12/NOTE 4
	PLUG 3",4",5",6",8"	A126 CLB/SEE NOTE 4
1	BODY	A126 CLB/NICKEL SEAT
NO.	PART NAME	MATERIAL

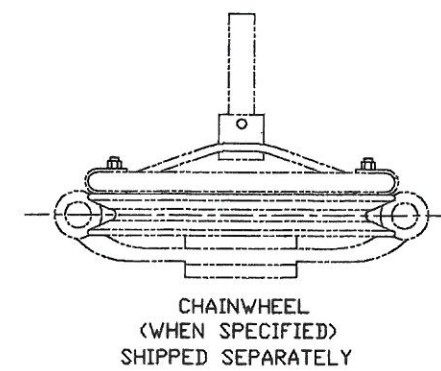
PARTS LIST

HOMESTEAD® VALVES
 A DIVISION OF OLSON TECHNOLOGIES, INC.
 160 WALNUT ST. ALLENTOWN, PA. 18102 (610) 770-1100

				TITLE
C	S1600	RH	7/19/14	3"-12" ECCENTRIC PLUG VALVE w/ GEAR
B	S1421	RH	DED 5/10/12	
A	S1335	RH	DED 9/10/11	NUMBER
REV	ISSUE	BY	APPR	DATE
				SK-4138

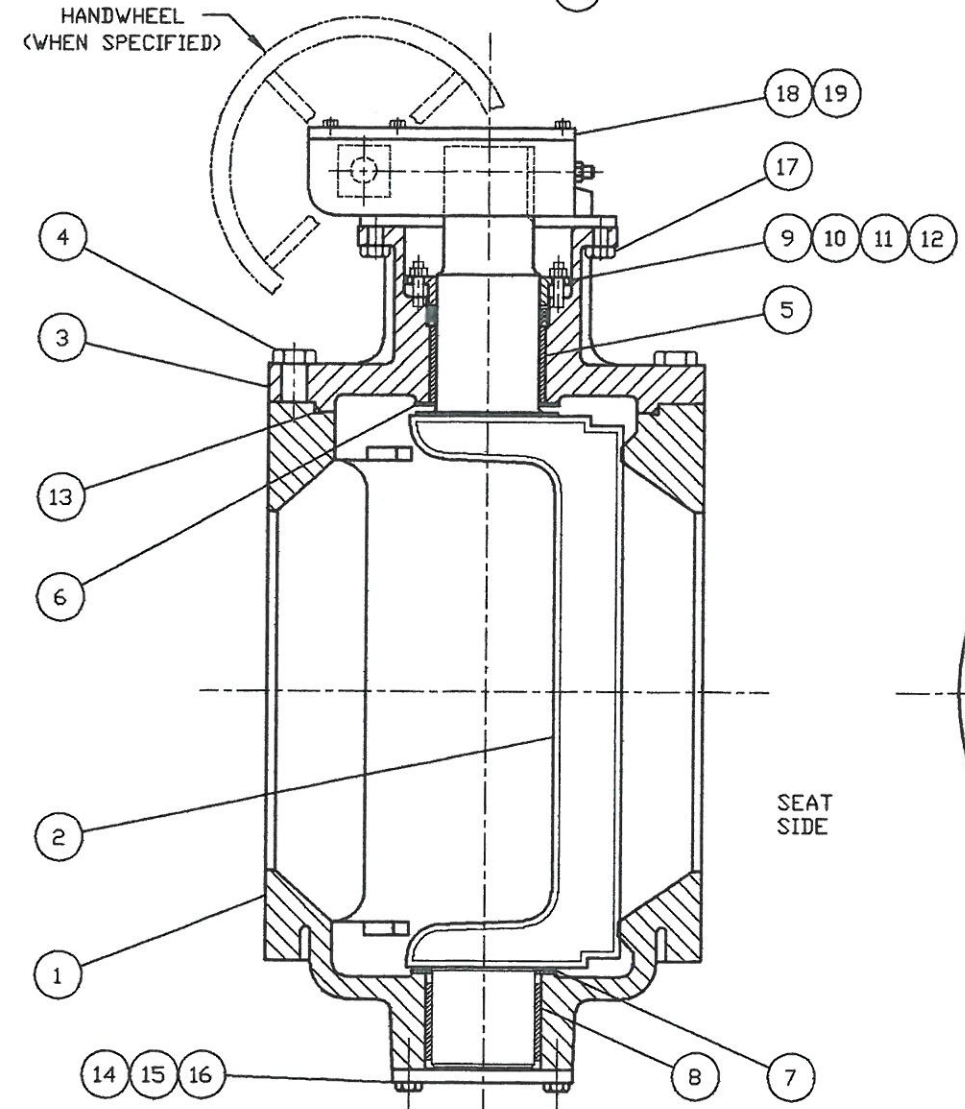


PLUG POSITIONS
VIEWED FROM TOP

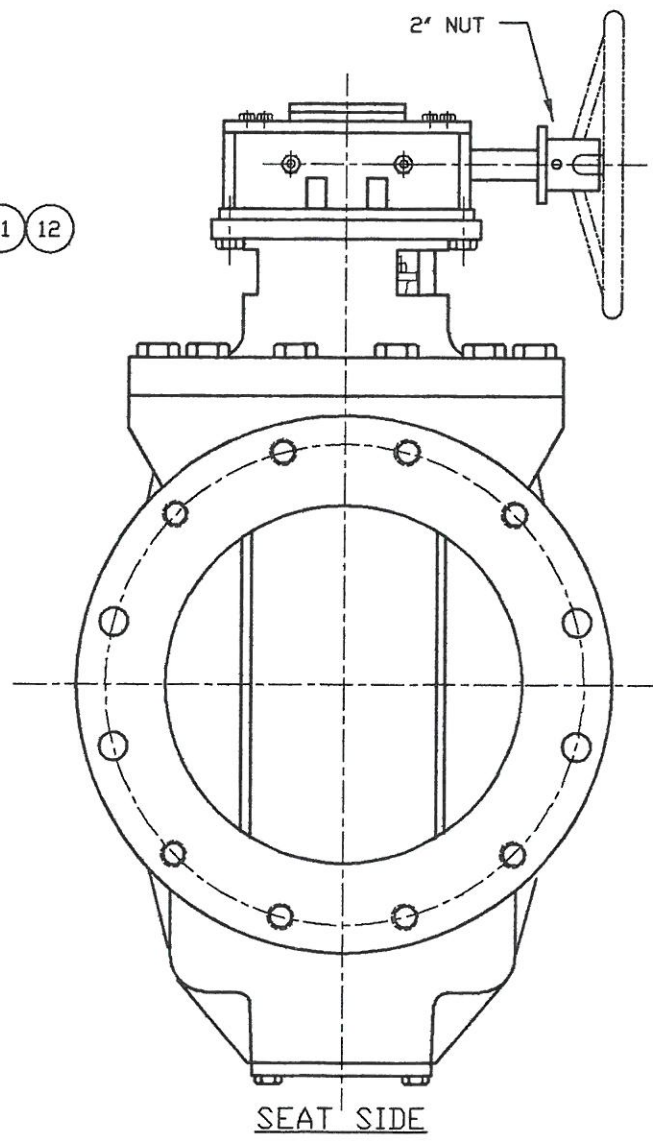


NOTES:

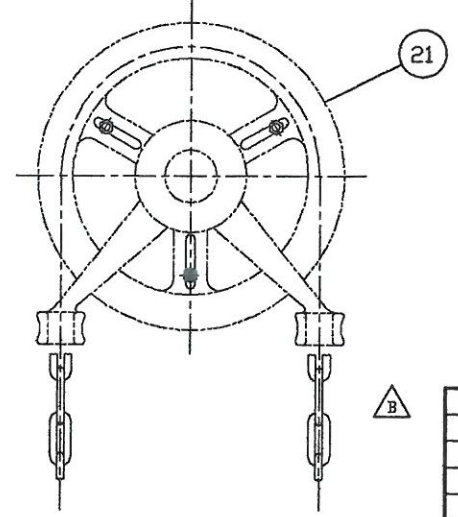
1. VALVES ARE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C517-09, RESILIENT-SEATED CAST IRON ECCENTRIC PLUG VALVES
2. VALVES ARE RATED AT 150 PSI CWP AND APPLICABLE FOR SERVICE TEMPERATURES FROM 33° THROUGH 125°F
3. END FLANGE DIMENSIONS AND DRILLING ARE IN ACCORDANCE WITH ASME/ANSI B16.1, CLASS 125 FOR CAST IRON PIPE FLANGES AND FLANGE FITTINGS.
4. VALVES ARE TESTED IN ACCORDANCE WITH ANSI/AWWA C517-09 AS FOLLOWS:
LEAKAGE TEST:
DIRECT PRESSURE: 150 PSI FOR 30 SECONDS
HYDROSTATIC TEST: 225 PSI FOR 60 SECONDS
5. PAINT: BLUE - SEMI-GLOSS METAL PRIMER
6. VALVE SEATS ARE NICKEL
7. ELASTOMERS AVAILABLE IN NITRILE, EPDM, NEOPRENE



SECTION 'A-A'



SEAT SIDE



21	CHAINWHEEL ASSY	WHEN SPECIFIED
20	PIPE PLUG	IRON
19	KEY	STEEL
18	GEAR	w/HANDWHEEL OR 2" NUT
17	CAPSCREW	STEEL, ZINC PLATED
16	CAPSCREW	STEEL, ZINC PLATED
15	SEAL	SEE NOTE 7
14	COVER PLATE	A126 CLB
13	SEAL	SEE NOTE 7
12	HEX NUT	STEEL, ZINC PLATED
11	STUD	STEEL, ZINC PLATED
10	PACKING GLAND	A126 CLB
9	PACKING	V-RING, SEE NOTE 7
8	BOT RADIAL BRG	316 SS
7	BOT THRUST BRG	PTFE
6	TOP THRUST BRG	PTFE
5	TOP RADIAL BRG	316 SS
4	CAPSCREW	STEEL, ZINC PLATED
3	MTG BRACKET	A126 CLB
2	PLUG	A536 65-45-12/NOTE 7
1	BODY	A126 CLB
NO.	PART NAME	MATERIAL

PARTS LIST

HOMESTEAD VALVES			
A DIVISION OF OLSON TECHNOLOGIES, INC.			
160 WALNUT ST. ALLENTOWN, PA. 18102 (610) 770-1100			
REV	ISSUE	BY	DATE
B	S1421	RH	5/10/12
A	S1335	RH	6/10/11
REV	ISSUE	BY	DATE

TITLE
14"-24" ECCENTRIC PLUG VALVE
w/ GEAR

NUMBER
SK-4136