

ECCENTRIC PLUG VALVE

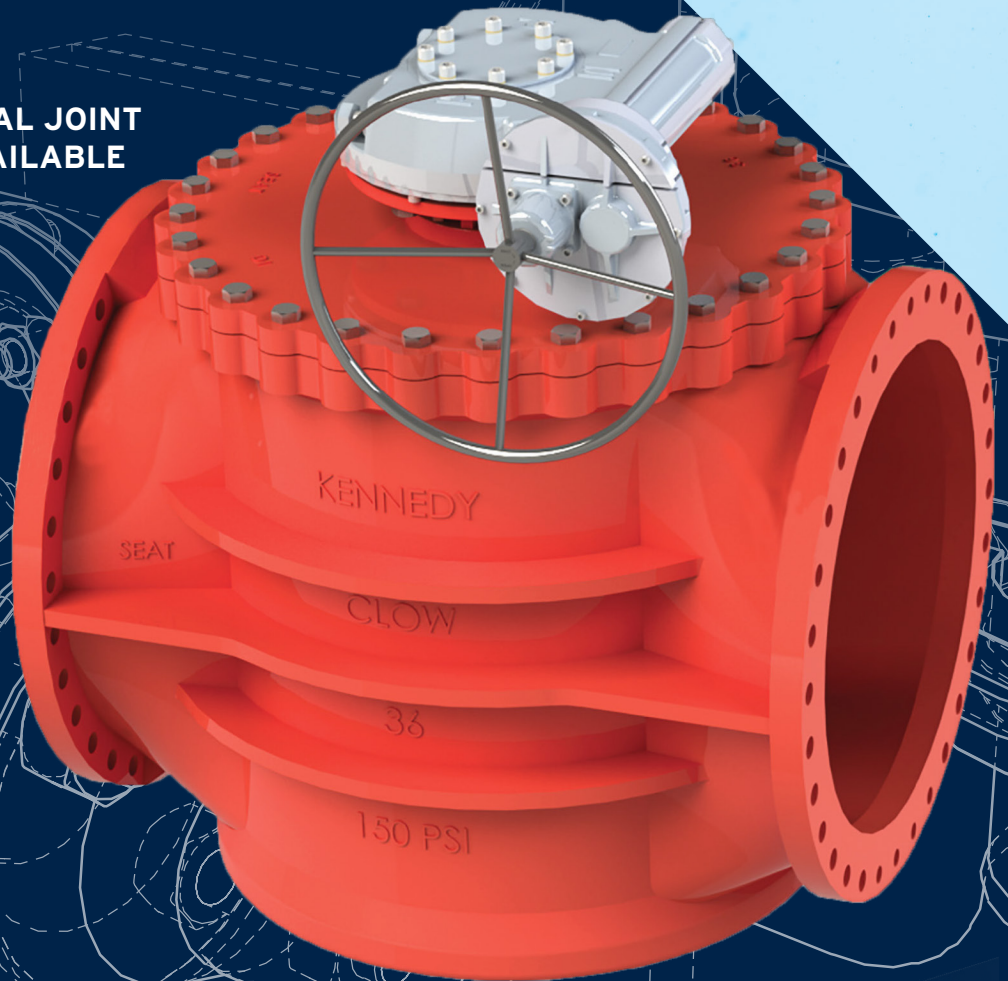
AWWA C517

3"-12" 175 PSI

14"-48" 150 PSI

FLANGED + MECHANICAL JOINT
END CONNECTIONS AVAILABLE

mcwanepi.com



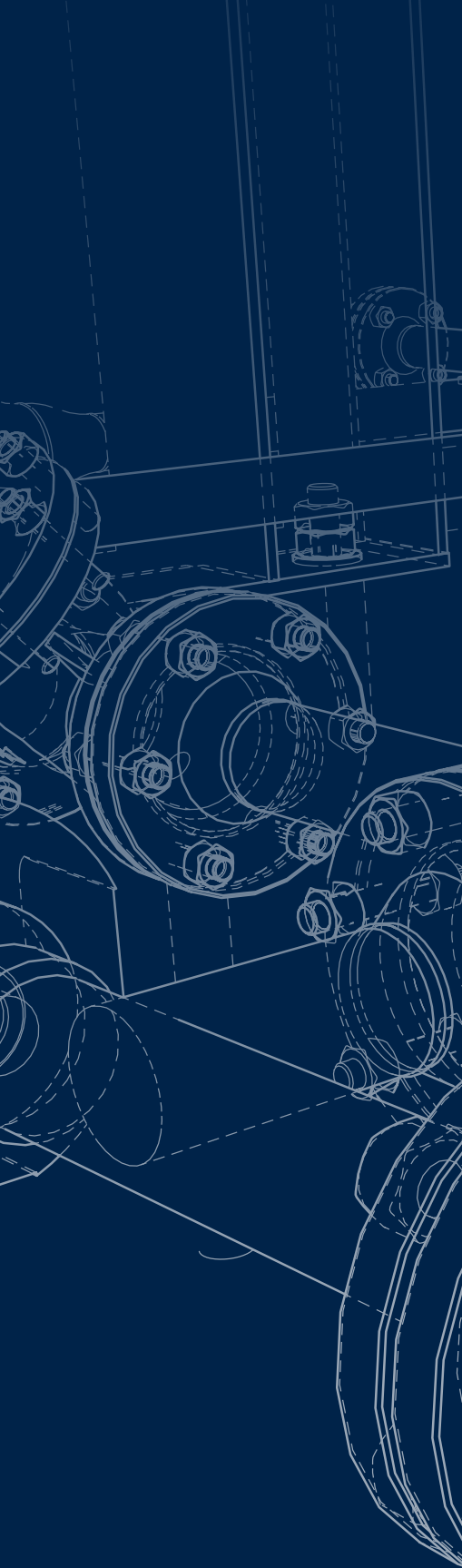


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THE INTEGRATED SOLUTION FOR TREATMENT PLANT NEEDS

Combining expertise from eight key water infrastructure brands in the McWane family of companies, McWane Plant & Industrial (MPI) provides a singular access point for the essential products and service required for any water or wastewater plant project.

WHY MPI?

We're a new kind of company formed on the basis of three simple goals:

- To provide a primary source for best-in-class products from time-tested brands
- Offer veteran specialists as resources for any plant project of any scale
- Increase the ease and efficiency of the planning and completion of our clients' projects

Our dedicated team is comprised of dozens of treatment plant specialists with decades of experience. We work cooperatively with industry

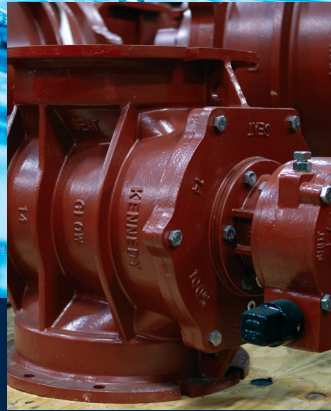
partners to give each project the attention it deserves, providing unprecedented levels of communication, access and collaboration. Our support teams work within dedicated service regions allowing our experts to apply regionally specific knowledge, including state regulations, codes and environmental specifications. Our nationally certified Associate Design-Build Professionals are a valuable asset to Design-Build projects.

The extended manufacturing capabilities of MPI mean your precise requirements are closer in reach and delivered faster with less legwork from you. We offer products that conform to rigorous industry standards and can work with your team to customize and fulfill unique requests. As part of our commitment to American workers and industries, we're proud of our ability to provide products from domestic facilities and to meet all domestic funding requirements.

MPI – best in-class

ECENTRIC PLUG VALVE

PORT 3"-48"



PRODUCT OVERVIEW

MPi's Eccentric Plug Valves are designed for consistent performance, durability and longevity. Built to the AWWA C517 standard, the Eccentric Plug Valves are available in sizes 3"-48" for 100% port with a variety of end connections. A reliable and engineered product capable of bi-directional flow at fully rated pressures. Dependable in a variety of service applications.

APPLICATIONS

Water and Wastewater services

- Pump Isolation
- Open / Close, Throttling, Modulating
- Control Balancing
- Lift Stations
- Heavy Solids
- Slurries / Grit
- Vertical Piping
- Horizontal Piping

RECTANGULAR PORT DESIGN

The cylindrical plug and rectangular port provide a rotational alignment by the eccentric motion making a uniform and full contact with the welded in nickel seat. Unlike circular port designs that have a point-to-point seating where engagement and wear can be an issue, the rectangular port makes a uniform and full contact without the need for exact alignment of the plug in the body.

ACTUATION

Kennedy Valve has furnished valves with many assorted type of actuators to operate our valves. Our engineers have extensive experience with electric, pneumatic, and hydraulic actuators on our plug valves and regularly work with most major actuator supplies.

KEY CHARACTERISTICS	
Size Range	3"-48"
Materials	Ductile Iron ASTM A536, 95% pure nickel welded seat, Buna-N Plug
Pressure Range	175PSI 3"-12", 150PSI 14" - 48"
Temperature Range	33°F - 125°F
Body Style	FLJ or MJ
Actuator Types	Direct drive with 2" square operating nut; electric pneumatic or hydraulic actuator
Standards	AWWA C517

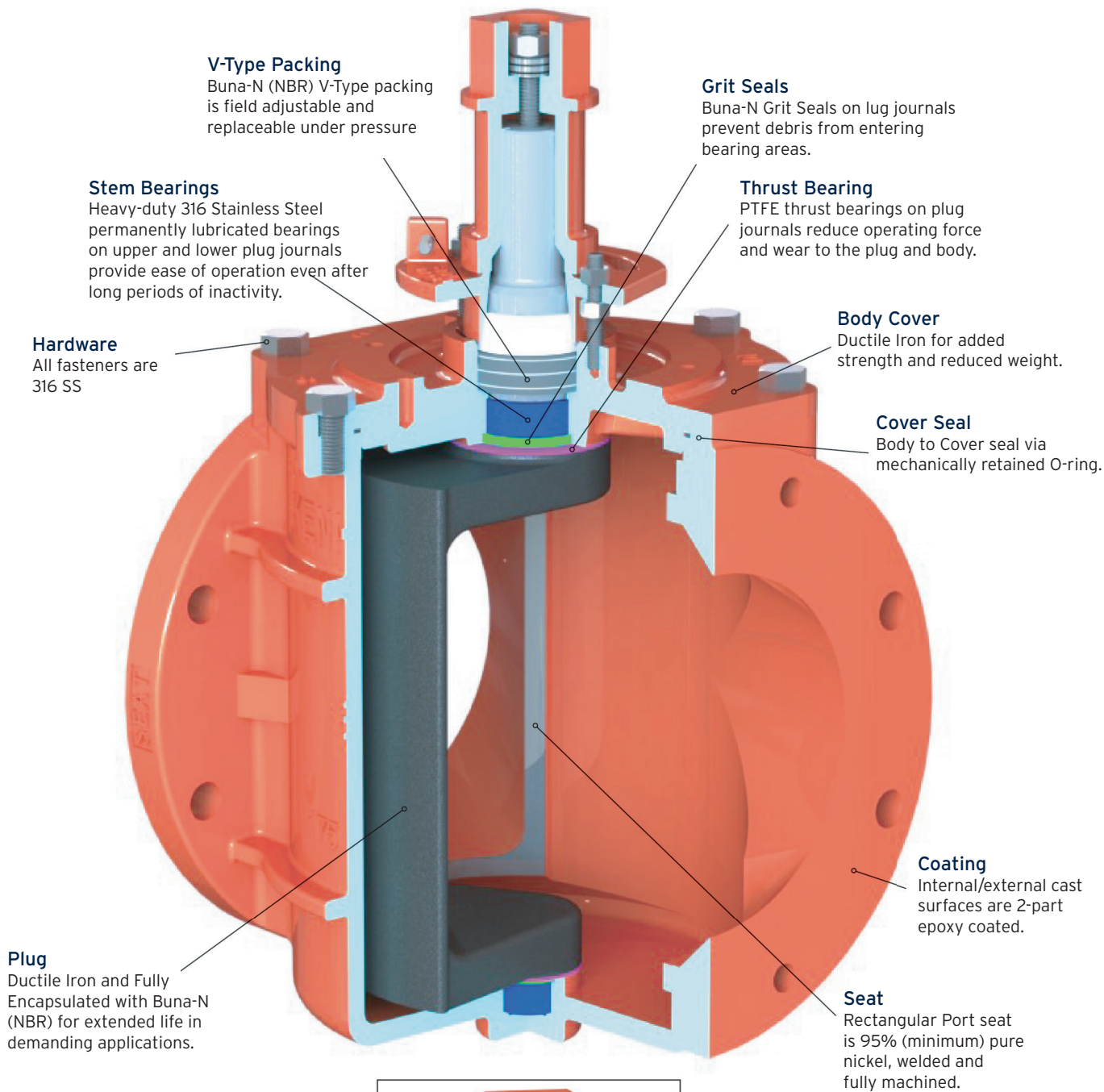
ECCENTRIC PLUG VALVE FEATURES & BENEFITS

STANDARD FEATURES

- **Rectangular Port Design:** The cylindrical plug and rectangular port provide a rotation alignment by the eccentric motion making uniform and full contact with the welded nickel seat.
- **Adaptable Actuation:** EPVs can be ordered with electric, pneumatic, or hydraulic actuators to fit the needs of your system.
- **Full Flow Design:** Allows laminar (smooth or regular) flow in the body resulting in low head loss and passage of larger solids preventing clogging or build up.
- **Extended Life Plug:** Ductile iron and fully encapsulated with Buna-N (NBR) for extended life in demanding applications.
- **Ease of Operation:** Stem bearings are made of heavy duty 316 stainless steel permanently lubricated on upper and lower plug journals to provide ease of operation after long periods of inactivity.
- **Built to Endure:** PTFE thrust bearings reduce operating force and wear to the plug and body. All fasteners are 316 stainless steel.
- A full line of accessories and options are available that include extension stems, extended bonnets, floor stands, valve boxes, operating nuts, hand wheels, levers, positioners, fully bi-directional at rated pressure, switches, and solenoid valves as well as speed control valves.
- EPVs are designed and built to AWWA C517 standards.

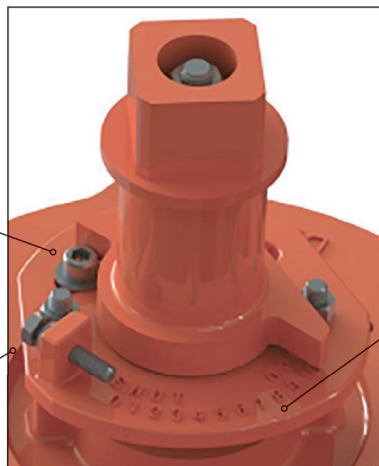


ENGINEERING FEATURES



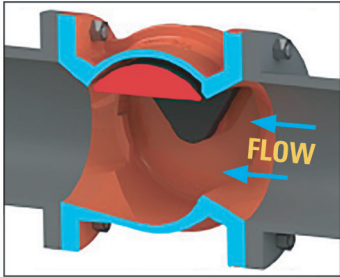
Open Limit
Adjustable stop

Close Limit
Adjustable stop

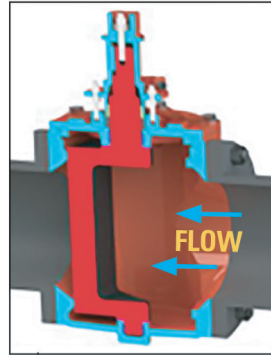


Position Indicator
Quarter-turn valves re equipped with a position indicator marked at 10° increments.

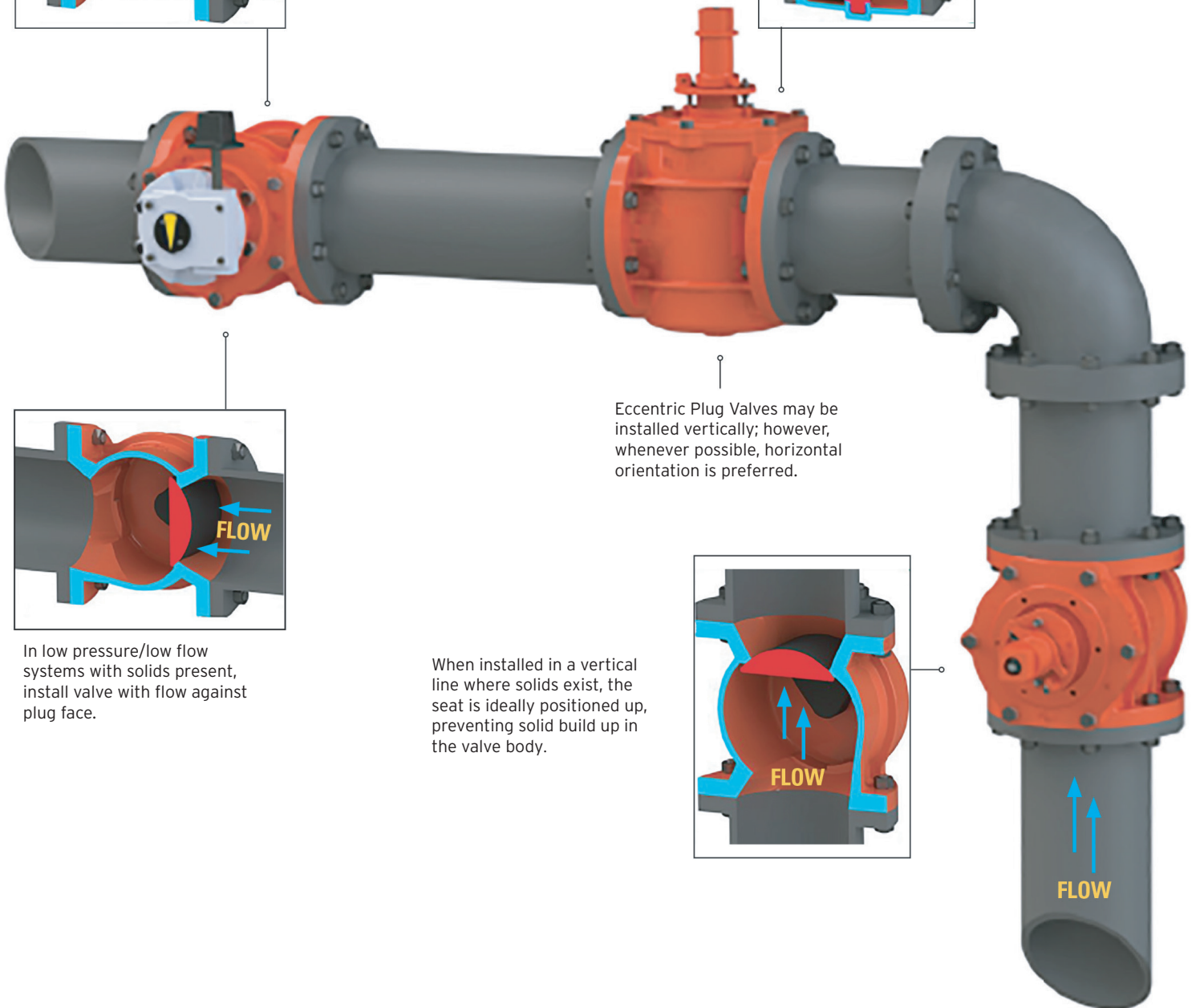
SUGGESTED INSTALLATION



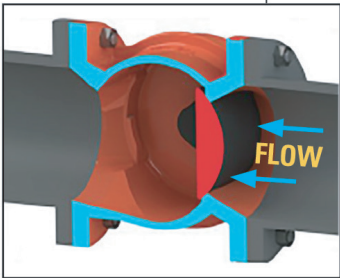
When Eccentric Plug is installed in a horizontal line, the preferred installation is with the plug rotating 90° upward to open. Utilizing this orientation can lessen the effect of solids preventing plug operation.



When installed in high pressure systems, it is recommended to have the plug seat on the outlet side of the valve.

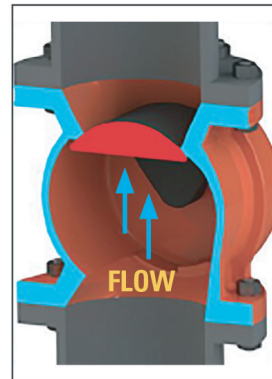


Eccentric Plug Valves may be installed vertically; however, whenever possible, horizontal orientation is preferred.



In low pressure/low flow systems with solids present, install valve with flow against plug face.

When installed in a vertical line where solids exist, the seat is ideally positioned up, preventing solid build up in the valve body.



ADDITIONAL PARTS OPTIONS & ACCESSORIES

A full line of accessories and options are available that include extension stems, extended bonnets, floor stands, valve boxes, operating nuts, hand wheels, levers, positioners, fully bi-directional at rated pressure, switches, and solenoid valves as well as speed control valves.

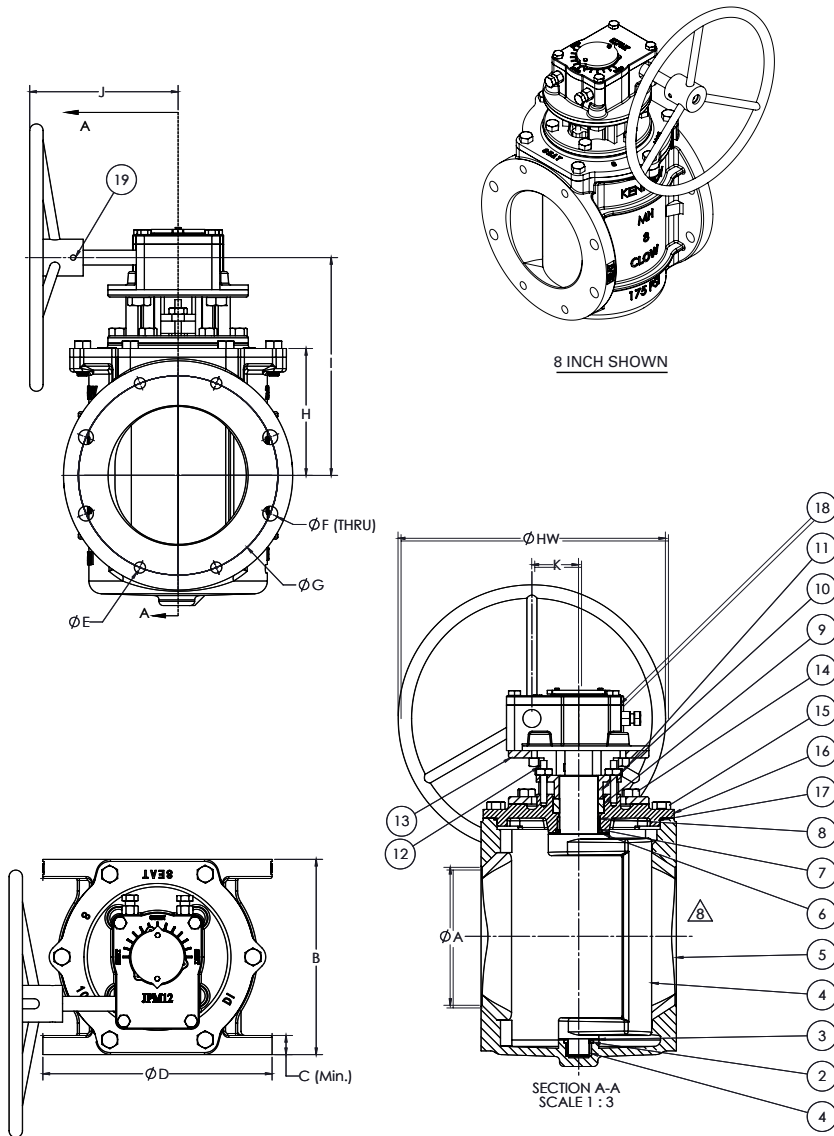


Manual valves available with
2" square operating nut



Valves commonly supplied with gearing

100% FULL FLOW ECCENTRIC PLUG VALVE WITH FLANGED ENDS AND GEAR - HW SIZES 3"-16"



SIZE RANGE	WATER WORKING PRESSURE PSI	HYDROSTATIC TEST PSI
3-12	175 PSI	262.5 PSI
14-16	150 PSI	225 PSI

ITEM	PART NAME	ASTM DESIGNATION	QTY
1	Lower Sleeve Bearing	Sintered Alloy SS316	1
2	Lower Grit Seal	NBR	1
3	Lower Thrust Washer	PTFE	1
4	Plug	ASTM A536 65-45-12 OR 70-50-05 +NBR	1
5	Body	ASTM A536 65-45-12 OR 70-50-05	1
6	Upper Thrust Washer	PTFE	1
7	Upper Grit Seal	NBR	1
8	Upper Sleeve Bearing	Sintered Alloy SS316	1
9	V-Packing	NBR	1
10	Follower Gland	ASTM A536 65-45-12 OR 70-50-05	1
11	Hex Nuts	Stainless Steel ASTM A276.T316	2
12	Studs	Stainless Steel ASTM A276.T316	2
13	Adapter	ASTM A536 65-45-12 OR 70-50-05	1
14	Adapter Bolts	Stainless Steel ASTM A276.T316	6
15	Cover Bolts	Stainless Steel ASTM A276.T316	4
16	Cover	ASTM A536 65-45-12 OR 70-50-05	1
17	Cover O-ring	NBR	1
18	JPM Gear w/ HW	-----	1
19	Slot Type Spring Pin	ASTM A29 1566	1

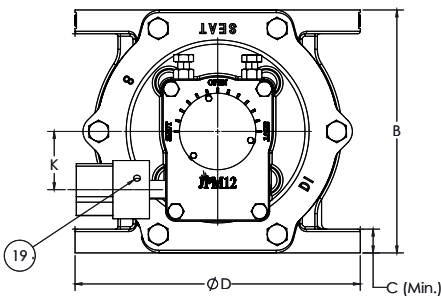
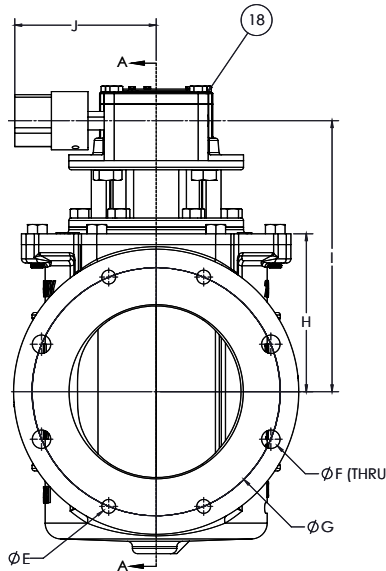
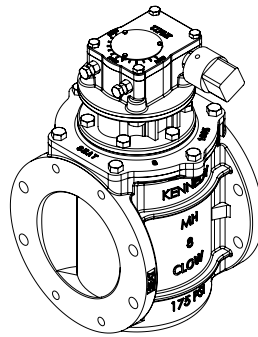
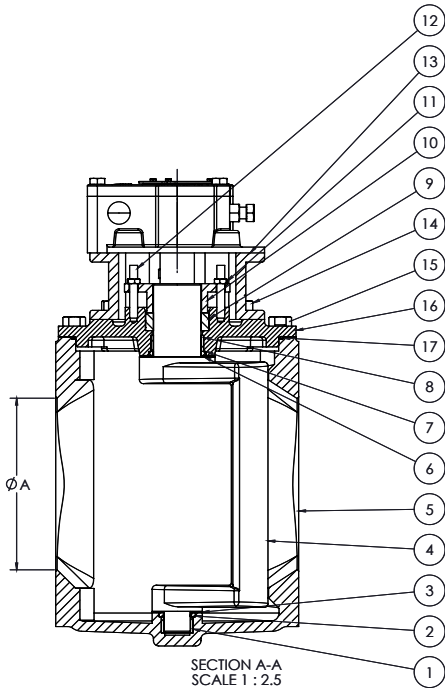
NOTE:

1. Body castings are tri-marked with "Clow", "Kennedy", and "M&H".
2. For services with 3"-8" Plug Valves in excess of 25 PSI, use of a gear is recommended.
3. Gear model and brand are subject to change without notice.

DIMENSIONS															
A	B	C	D	E	F	G	H	I	J	K	Weight (lbs.)	JPM Gear	Gear Ratio	No. Turns to Open (Approx.)	Ø HW (in.)
3	8.00	.75	7.50	4 x 5/8-11 \downarrow .79	---	6.00	3.76	7.50	8.8	2.8	75 lbs.	JPM12A	40	10	8
4	9.00	.94	9.00	4 x 5/8-11 \downarrow .79	4 x .75	7.50	4.63	8.28	8.8	2.8	100 lbs.	JPM12A	40	10	8
6	10.50	1.02	11.00	4 x 3/4-10 \downarrow .79	4 x .81	9.50	5.78	10.30	8.8	2.8	165 lbs.	JPM12FA	40	10	12
8	11.50	1.13	13.50	4 x 3/4-10 \downarrow .79	4 x .88	11.75	7.48	12.54	8.8	2.8	230 lbs.	JPM12FA	40	10	16
10	13.00	1.19	16.00	8 x 7/8-9 \downarrow .79	4 x 1.00	14.25	8.88	14.02	11.3	3.9	340 lbs.	JPM14A	53	13	20
12	14.00	1.26	19.00	8 x 7/8-9 \downarrow .79	4 x 1.00	17.00	11.00	16.38	12.1	3.9	480 lbs.	JPM14A	53	13	24
14	17.00	1.38	21.00	8 x 1-8 UNS \downarrow 1.54	4 x 1.13	18.75	12.88	18.00	14.9	4.9	720 lbs.	JPM15A	68	17	30
16	17.75	1.44	23.50	8 x 1-8 UNS \downarrow 1.06	8 x 1.13	21.25	14.69	22.50	14.9	4.9	850 lbs.	JPM15A	68	17	30

100% FULL FLOW ECCENTRIC PLUG VALVE WITH FLANGED ENDS AND GEAR - OP NUT SIZES 3"-16"

8 INCH SHOWN, BURIED GEAR



SIZE RANGE	WATER WORKING PRESSURE PSI	HYDROSTATIC TEST PSI
3-12	175 PSI	262.5 PSI
14-16	150 PSI	225 PSI

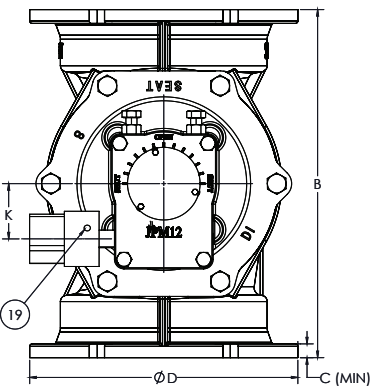
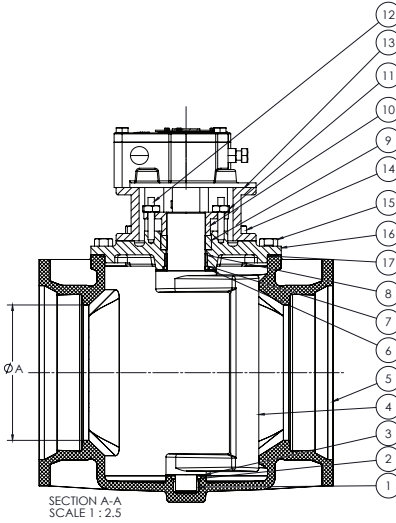
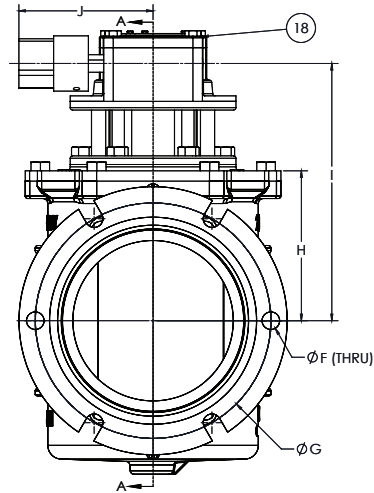
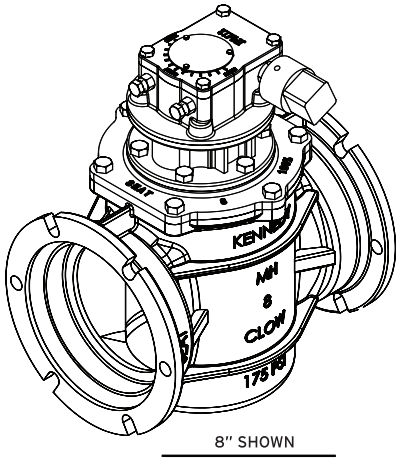
ITEM	PART NAME	ASTM DESIGNATION	QTY
1	Lower Sleeve Bearing	Sintered Alloy SS316	1
2	Lower Grit Seal	NBR	1
3	Lower Thrust Washer	PTFE	1
4	Plug	ASTM A536 65-45-12 OR 70-50-05 +NBR	1
5	Body	ASTM A536 65-45-12 OR 70-50-05	1
6	Upper Thrust Washer	PTFE	1
7	Upper Grit Seal	NBR	1
8	Upper Sleeve Bearing	Sintered AlloySS316	1
9	V-Packing	NBR	1
10	Follower Gland	ASTM A536 65-45-12 OR 70-50-05	1
11	Hex Nuts	Stainless Steel ASTM A276.T316	2
12	Studs	Stainless Steel ASTM A276.T316	2
13	Adapter	ASTM A536 65-45-12 OR 70-50-05	1
14	Adapter Bolts	Stainless Steel ASTM A276.T316	6
15	Cover Bolts	Stainless Steel ASTM A276.T316	4
16	Cover	ASTM A536 65-45-12 OR 70-50-05	1
17	Cover O-ring	NBR	1
18	JPM Gear w/ OP Nut	-----	1
19	Slot Type Spring Pin	ASTM A29 1566	1

NOTE:

1. Body castings are tri-marked with "Clow", "Kennedy", and "M&H".
2. For services with 3"-8" Plug Valves in excess of 25 PSI, use of a gear is recommended.
3. Gear model and brand are subject to change without notice.

DIMENSIONS															
A	B	C	D	E	F	G	H	I	J	K	Weight (lbs.)	JPM Gear	Gear Ratio	No. Turns to Open (Approx.)	
3	8.00	.75	7.50	4 x 5/8-11 \downarrow .79	---	6.00	3.76	7.50	9.01	2.8	75 lbs.	JPM12B	40	10	
4	9.00	.94	9.00	4 x 5/8-11 \downarrow .79	4 x .75	7.50	4.63	8.28	9.01	2.8	100 lbs.	JPM12B	40	10	
6	10.50	1.02	11.00	4 x 3/4-10 \downarrow .79	4 x .81	9.50	5.78	10.30	9.41	2.8	165 lbs.	JPM12FB	40	10	
8	11.50	1.13	13.50	4 x 3/4-10 \downarrow .79	4 x .88	11.75	7.48	12.54	9.41	2.8	230 lbs.	JPM12FB	40	10	
10	13.00	1.19	16.00	8 x 7/8-9 \downarrow .79	4 x 1.00	14.25	8.88	14.02	10.08	3.9	340 lbs.	JPM14B	53	13	
12	14.00	1.26	19.00	8 x 7/8-9 \downarrow .79	4 x 1.00	17.00	11.00	16.38	10.08	3.9	480 lbs.	JPM14B	53	13	
14	17.00	1.38	21.00	8 x 1-8 UNS \downarrow 1.54	4 x 1.13	18.75	12.88	18.00	10.71	4.9	720 lbs.	JPM15B	68	17	
16	17.75	1.44	23.50	8 x 1-8 UNS \downarrow 1.06	8 x 1.13	21.25	14.69	22.50	10.71	4.9	850 lbs.	JPM15B	68	17	

100% FULL FLOW ECCENTRIC PLUG VALVE WITH MECHANICAL JOINT ENDS AND GEAR - OP NUT SIZES 3"-16"



SIZE RANGE	WATER WORKING PRESSURE PSI	HYDROSTATIC TEST PSI
3-12	175 PSI	262.5 PSI
14-16	150 PSI	225 PSI

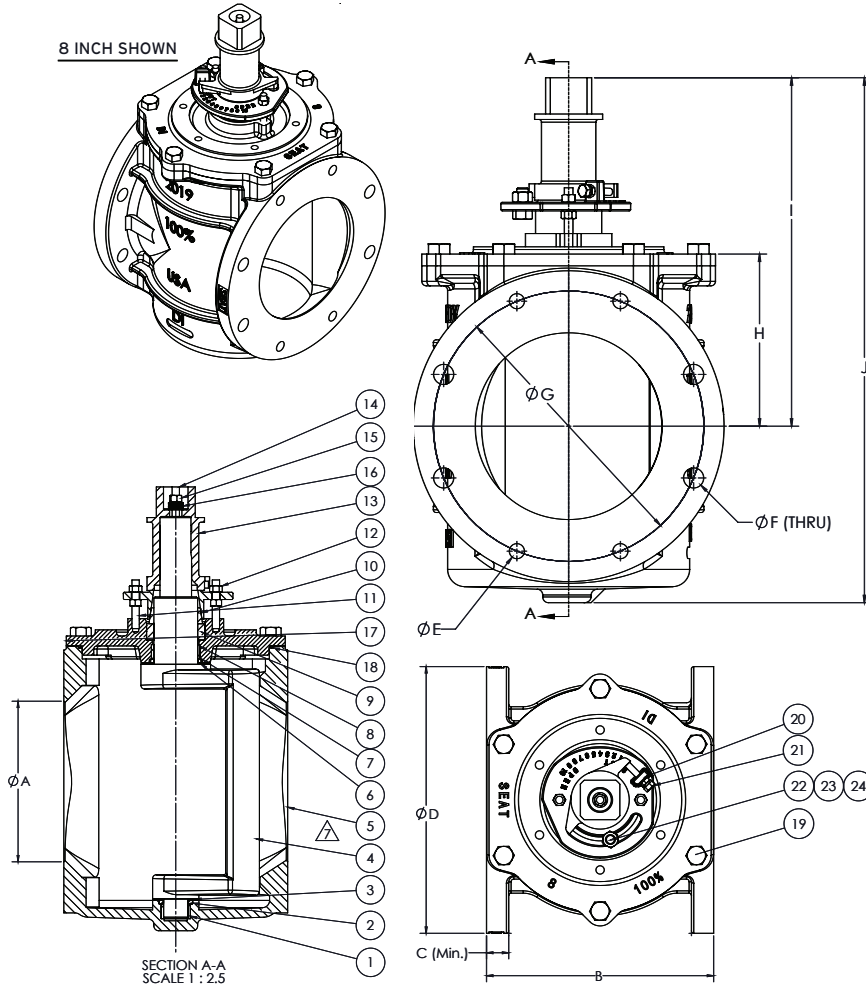
ITEM	PART NAME	ASTM DESIGNATION	QTY
1	Lower Sleeve Bearing	Sintered Alloy SS316	1
2	Lower Grit Seal	NBR	1
3	Lower Thrust Washer	PTFE	1
4	Plug	ASTM A536 65-45-12 OR 70-50-05 +NBR	1
5	Body	ASTM A536 65-45-12 OR 70-50-05	1
6	Upper Thrust Washer	PTFE	1
7	Upper Grit Seal	NBR	1
8	Upper Sleeve Bearing	Sintered Alloy SS316	1
9	V-Packing	NBR	1
10	Follower Gland	ASTM A536 65-45-12 OR 70-50-05	1
11	Hex Nuts	Stainless Steel ASTM A276.T316	2
12	Studs	Stainless Steel ASTM A276.T316	2
13	Adapter	ASTM A536 65-45-12 OR 70-50-05	1
14	Adapter Bolts	Stainless Steel ASTM A276.T316	6
15	Cover Bolts	Stainless Steel ASTM A276.T316	4
16	Cover	ASTM A536 65-45-12 OR 70-50-05	1
17	Cover O-ring	NBR	1
18	JPM Gear w/ Op Nut	-----	1
19	Slot Type Spring Pin	ASTM A29 1566	1

NOTE:

1. Body castings are tri-marked with "Clow", "Kennedy", and "M&H".

DIMENSIONS													
A	B	C	D	F	G	H	I	J	K	Weight (lbs.)	JPM Gear	Gear Ratio	No. Turns to Open (Approx.)
3	11.50	.58	7.62	4 x .75 THRU	6.19	3.76	7.50	9.01	2.8	75 lbs.	JPM12B	40	10
4	14.25	.60	9.06	4 x .88 THRU	7.50	4.65	8.28	9.01	2.8	100 lbs.	JPM12B	40	10
6	15.75	.63	11.06	6 x .88 THRU	9.50	5.78	10.30	9.41	2.8	165 lbs.	JPM12FB	40	10
8	17.36	.66	13.39	6 x .88 THRU	11.75	7.48	12.54	9.41	2.8	230 lbs.	JPM12FB	40	10
10	19.37	.70	15.62	8 x .88 THRU	14.25	8.88	14.02	10.08	3.9	340 lbs.	JPM14B	53	13
12	20.75	.73	17.88	8 x .88 THRU	16.25	11.00	16.38	10.08	3.9	480 lbs.	JPM14B	53	13
14	24.50	.79	20.25	10 x .88 THRU	18.75	12.88	18.00	10.71	4.9	720 lbs.	JPM15B	68	17
16	27.25	.85	22.50	12 x .88 THRU	21.00	14.69	22.50	10.71	4.9	850 lbs.	JPM15B	68	17

100% FULL FLOW ECCENTRIC PLUG VALVE WITH FLANGED ENDS AND DIRECT DRIVE - OP NUT SIZES 3"-8"



ITEM	PART NAME	ASTM DESIGNATION	QTY
1	Lower Sleeve Bearing	Sintered Alloy SS316	1
2	Lower Grit Seal	NBR	1
3	Lower Thrust Washer	PTFE	1
4	Plug	ASTM A536 65-45-12 OR 70-50-05 +NBR	1
5	Body	ASTM A536 65-45-12 OR 70-50-05	1
6	Upper Thrust Washer	PTFE	1
7	Upper Grit Seal	NBR	1
8	Upper Sleeve Bearing	Sintered Alloy SS316	1
9	V-Packing	NBR	1
10	Brake	PPS 40% Glass Filled	1
11	Cover Studs	Stainless Steel ASTM A276.1316	4
12	Cover Stud Hex Nuts	Stainless Steel ASTM A276.1316	2
13	2" Sq. OP-Nut	ASTM A536 65-45-12 OR 70-50-05	1
14	Plug Stem Stud	Stainless Steel ASTM A276.1316	1
15	Hex Locking Nut	Stainless Steel ASTM A276.1316	1
16	Disc Spring Washer	Stainless Steel ASTM A276.1316	5
17	Cover	ASTM A536 65-45-12 OR 70-50-05	1
18	Cover O-ring	NBR	1
19	Cover Bolts	Stainless Steel ASTM A276.1316	4
20	Hex Jam Nut	Stainless Steel ASTM A276.1316	1
21	Followe Sq. Head Set Screw	Stainless Steel ASTM A276.1316	1
22	Socket Head Capscrew	Stainless Steel ASTM A276.1316	1
23	Washer	Stainless Steel ASTM A276.1316	1
24	Hex Jam Nut	Stainless Steel ASTM A276.1316	1

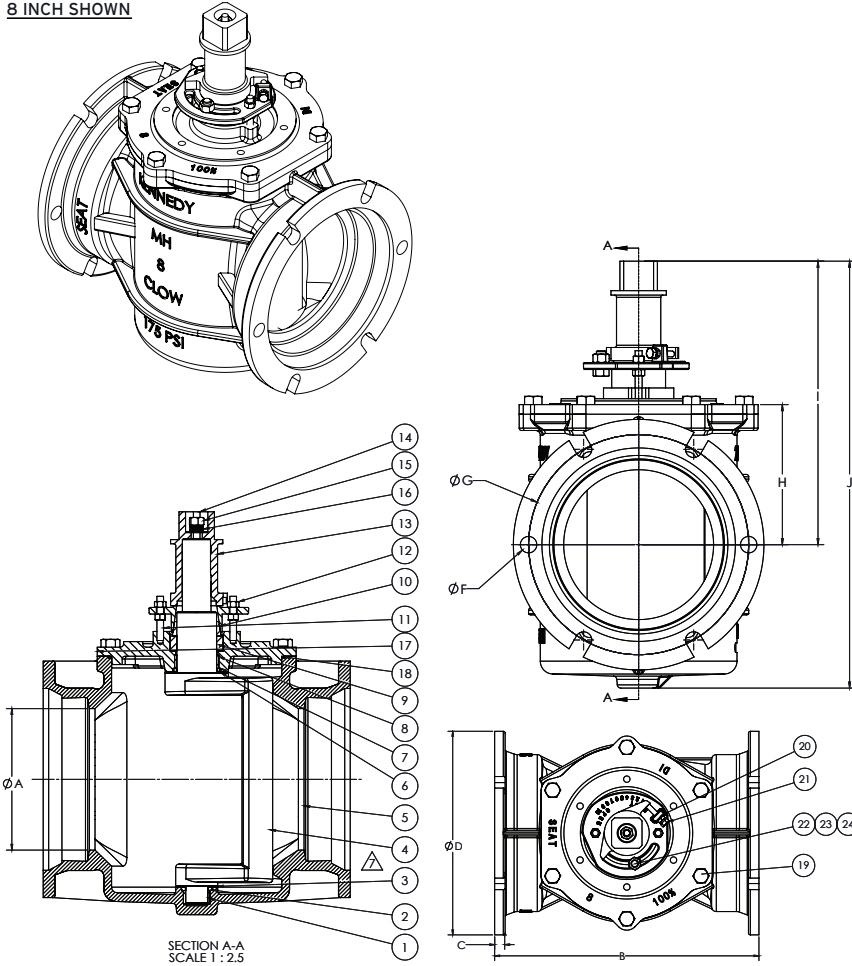
NOTE:

1. Body castings are tri-marked with "Clow", "Kennedy", and "M&H".
2. 2" OP Nut accepts standard 2" lever / wrench.
3. For service in excess of 25 PSI, use of a gear is recommended.

DIMENSIONS											
A	B	C	D	E	F	G	H	I	J	Weight (lbs.)	
3	8.00	.75	7.50	4 x 5/8-11 \downarrow .79	---	6.00	3.76	9.38	13.24	50 lbs.	
4	9.00	.94	9.00	4 x 5/8-11 \downarrow .79	4 x .75	7.50	4.65	10.15	14.86	75 lbs.	
6	10.50	1.02	11.00	4 x 3/4-10 \downarrow .79	4 x .81	9.50	5.78	12.96	18.75	125 lbs.	
8	11.50	1.13	13.50	4 x 3/4-10 \downarrow .79	4 x .88	11.75	7.48	15.13	22.79	185 lbs.	

100% FULL FLOW ECCENTRIC PLUG VALVE WITH MECHANICAL JOINT ENDS AND DIRECT DRIVE - OP NUT SIZES 3"-8"

8 INCH SHOWN



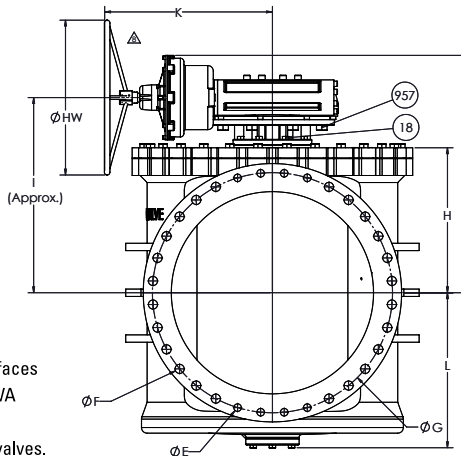
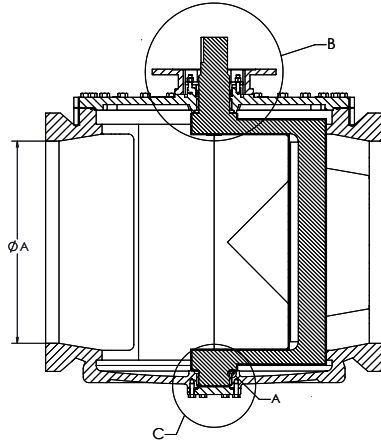
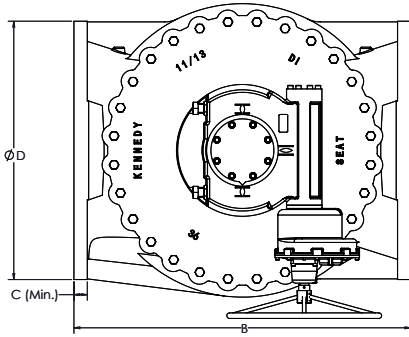
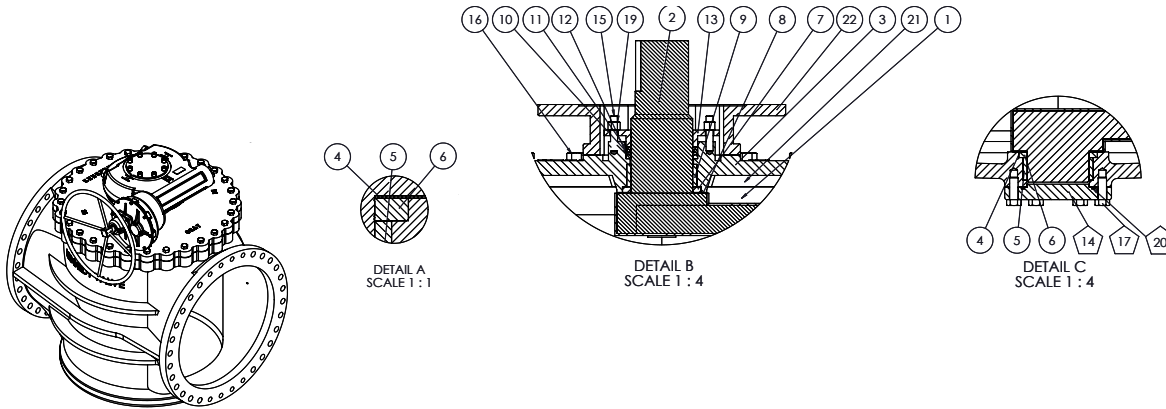
ITEM	PART NAME	ASTM DESIGNATION	QTY
1	Lower Sleeve Bearing	Sintered Alloy SS316	1
2	Lower Grit Seal	NBR	1
3	Lower Thrust Washer	PTFE	1
4	Plug	ASTM A536 65-45-12 OR 70-50-05 +NBR	1
5	Body	ASTM A536 65-45-12 OR 70-50-05	1
6	Upper Thrust Washer	PTFE	1
7	Upper Grit Seal	NBR	1
8	Upper Sleeve Bearing	Sintered Alloy SS316	1
9	V-Packing	NBR	1
10	Brake	PPS 40% Glass Filled	1
11	Cover Studs	Stainless Steel ASTM A276.1316	4
12	Cover Stud Hex Nuts	Stainless Steel ASTM A276.1316	2
13	2" Sq. OP-Nut	ASTM A536 65-45-12 OR 70-50-05	1
14	Plug Stem Stud	Stainless Steel ASTM A276.1316	1
15	Hex Locking Nut	Stainless Steel ASTM A276.1316	1
16	Disc Spring Washer	Stainless Steel ASTM A276.1316	5
17	Cover	ASTM A536 65-45-12 OR 70-50-05	1
18	Cover O-ring	NBR	1
19	Cover Bolts	Stainless Steel ASTM A276.1316	4
20	Hex Jam Nut	Stainless Steel ASTM A276.1316	1
21	Followe Sq. Head Set Screw	Stainless Steel ASTM A276.1316	1
22	Socket Head Capscrew	Stainless Steel ASTM A276.1316	1
23	Washer	Stainless Steel ASTM A276.1316	1
24	Hex Jam Nut	Stainless Steel ASTM A276.1316	1

NOTE:

1. Body castings are tri-marked with "Clow", "Kennedy", and "M&H".
2. For service in excess of 25 PSI, use of a gear is recommended.

DIMENSIONS									
A	B	C	D	F	G	H	I	J	Weight (lbs.)
3	11.50	.58	Ø 7.62	4 x .75 THRU	Ø 6.19	3.76	9.38	13.24	70 lbs.
4	14.25	.60	Ø 9.06	4 x .88 THRU	Ø 7.50	4.65	10.15	14.86	100 lbs.
6	15.75	.63	Ø 11.06	6 x .88 THRU	Ø 9.50	5.78	12.96	18.75	145 lbs.
8	17.36	.66	Ø 13.39	6 x .88 THRU	Ø 11.75	7.48	15.13	22.79	200 lbs.

100% FULL FLOW ECCENTRIC PLUG VALVE WITH FLANGED ENDS AND GEAR - HAND WHEEL SIZES 18"-36"

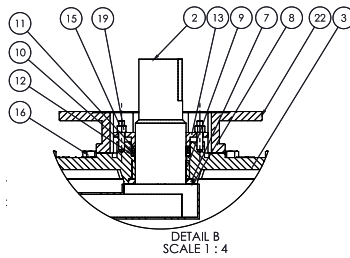
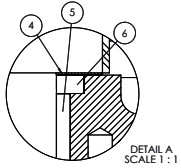
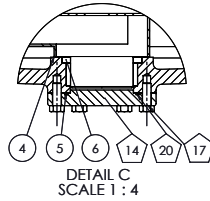


- NOTE:**
1. Interior and exterior ferrous metal surfaces epoxy coated to comply with the AWWA C550 Standard.
 2. Standard with handwheel on flanged valves.
 3. Only 30" and 36" valves have a bottom cover plate (see pentagon ballon items).
 4. Body castings are tri-marked with "Clow", "Kennedy", and "M&H".

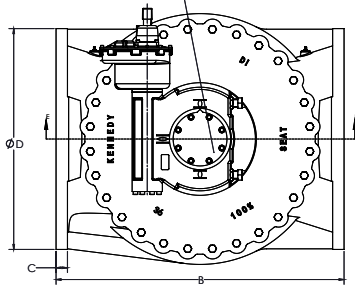
ITEM	PART NAME	ASTM DESIGNATION
1	Body	ASTM A536 65-45-12 OR 70-50-05
2	Plug	ASTM A536 65-45-12 OR 70-50-05 +NBR
3	Cover	ASTM A536 65-45-12 OR 70-50-05
4	Bottom Thrust Washer	PTFE
5	Botom Bearing	Sintered Alloy SS316
6	GRT Guard Shaft Seal (Lower)	NBR
7	GRT Guard Shaft Seal (Upper)	NBR
8	Upper Thrust Washer	PTFE
9	Upper Bearing Washer	Sintered Alloy SS316
10	V2-Packing-A N6225-55	NBR
11	V2-Top-Packing-A N6225-55	NBR
12	V2-Bottom-Packing-A N6225-55	NBR
13	FP Guard (For Actuator)	ASTM A536 65-45-12 OR 70-50-05
14	Bottom Cover	ASTM A536 65-45-12 OR 70-50-05
15	Cover Studs	Stainless Steel ASTM A276.1316
16	Hexagon Cover Bolts	Stainless Steel ASTM A276.1316
17	Bottom Cover Bolts	Stainless Steel ASTM A276.1316
18	Hexagon Adapter Bolts	Stainless Steel ASTM A276.1316
19	Hex Nut	Stainless Steel ASTM A276.1316
20	O-ring - Bottom Cover	NBR
21	O-ring - Top Cover	NBR
22	FP Adapter - Close	ASTM A536 65-45-12 OR 70-50-05
49	Rotork Gear w/ HW	- - -
957	Gear Bolts	Stainless Steel ASTM A276.1316

DIMENSIONS													Weight (lbs.)	Rotork Gear	Gear Ratio	Turns to Open (Approx.)	Ø HW	Water Working Press. PSI	Hydrostatic Test Press. PSI
A	B	C	D	E	F	G	H	I	J	K	L								
18	21.50	1.58	Ø 25.00	8 x 1.13-7 UNS-2B Ø 1.50	8 x Ø 1.25 THRU	Ø 22.75	16.42	21.50	27.6	17.7	18.3	1270	IW6 AWWA-IP68	152:1	38	30.0	150 PSI	225 PSI	
20	23.50	1.69	Ø 27.50	8 x 1.13-7 UNS-2B Ø 1.25	12 x Ø 1.25 THRU	Ø 25.00	17.09	22.25	28.6	17.7	17.4	1545	IW6 AWWA-IP68	228:1	57				
24	42.00	1.88	Ø 32.00	8 x 1.25-7 UNS-2B Ø 2.00	12 x Ø 1.38 THRU	Ø 29.50	21.06	28.00	35.4	23.8	21.8	3429	IW7 AWWA-IP68	384:1	96				
30	51.00	2.13	Ø 38.75	8 x 1.25-7 UNS-2B Ø 2.63	20 x Ø 1.38 THRU	Ø 36.00	22.19	30.69	37.2	29.9	22.5	6145	IW9 AWWA-IP68	696:1	174				
36	60.00	2.38	Ø 46.00	8 x 1.50-6 UNS-2B Ø 3.50	24 x Ø 1.63 THRU	Ø 42.75	25.81	34.75	42.3	29.9	27.7	8532	IW9 AWWA-IP68	928:1	232	40.0			

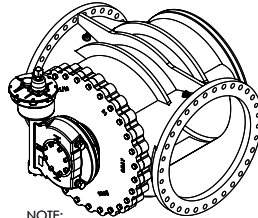
100% FULL FLOW ECCENTRIC PLUG VALVE WITH FLANGED ENDS AND GEAR FOR BURIED SERVICE SIZES 18"-36"



GEARBOX FOR BURIED SERVICE WILL NOT HAVE POSITION INDICATOR.

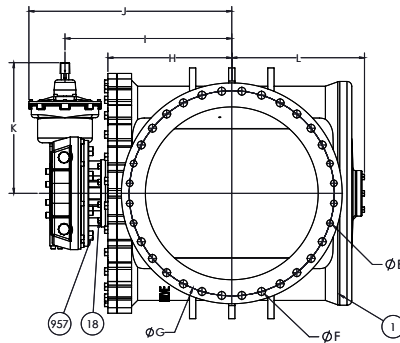
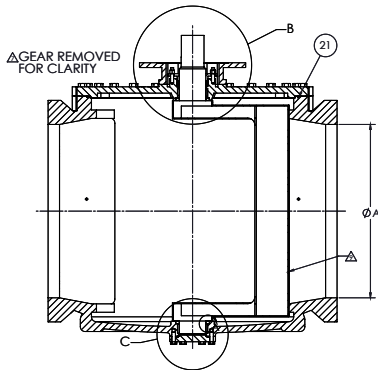


RECOMMENDED ORIENTATION FOR BURIED SERVICE:



NOTE:
• 36" VALVE SHOWN
• SHOWN OPEN WITH PLUG UP

ITEM	PART NAME	ASTM DESIGNATION
1	Body - Flanged	ASTM A536 65-45-12 OR 70-50-05
2	Plug	ASTM A536 65-45-12 OR 70-50-05 +NBR
3	Cover	ASTM A536 65-45-12 OR 70-50-05
4	Bottom Thrust Washer	PTFE
5	Bottom Bearing	Sintered Alloy SS316
6	GRT Guard Shaft Seal (Lower)	NBR
7	GRT Guard Shaft Seal (Upper)	NBR
8	Upper Thrust Washer	PTFE
9	Upper Bearing Washer	Sintered Alloy SS316
10	V2-Packing-A N6225-55	NBR
11	V2-Top-Packing-A N6225-55	NBR
12	V2-Bottom-Packing-A N6225-55	NBR
13	FP Guard (For Actuator)	ASTM A536 65-45-12 OR 70-50-05
14	Bottom Cover	ASTM A536 65-45-12 OR 70-50-05
15	Cover Studs	Stainless Steel ASTM A276.1316
16	Hexagon Cover Bolts	Stainless Steel ASTM A276.1316
17	Bottom Cover Bolts	Stainless Steel ASTM A276.1316
18	Hexagon Adapter Bolts	Stainless Steel ASTM A276.1316
19	Hex Nut	Stainless Steel ASTM A276.1316
20	O-ring - Bottom Cover	NBR
21	O-ring - Top Cover	NBR
22	FP Adapter - Close	ASTM A536 65-45-12 OR 70-50-05
957	Gear Bolts	Stainless Steel ASTM A276.1316

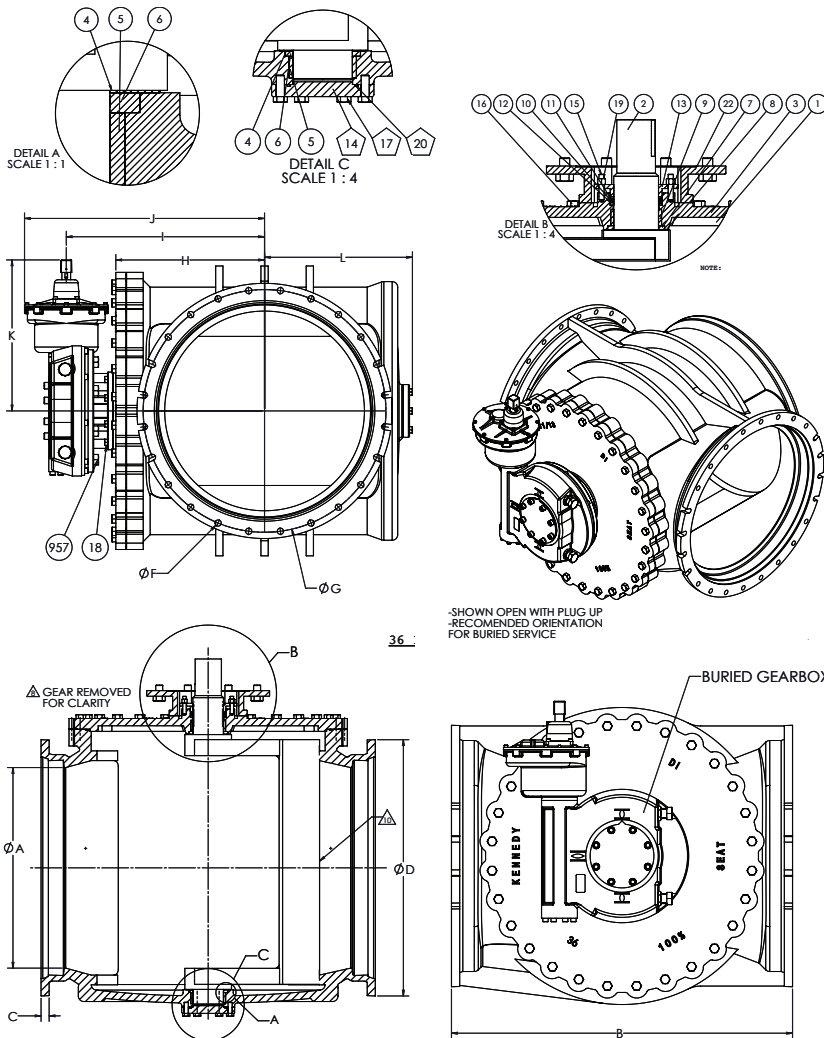


NOTE:

1. Interior and exterior ferrous metal surfaces are epoxy coated.
2. Only 30" and 36" valves have a bottom cover plate (see pentagon ballon items).
3. Mount in orientation shown for buried service.
4. Gearbox for buried service will not have position indicator.
5. Body castings are tri-marked with "Clow", "Kennedy", and "M&H".

DIMENSIONS													Weight (lbs.)	Rotork Gear	Gear Ratio	Turns to Open (Approx.)	Water Working Press. PSI	Hydrostatic Test Press. PSI
A	B	C	D	E	F	G	H	I	J	K	L							
18	21.50	1.58	Ø 25.00	8 x 1.13-7 UNS-2B Ø 1.50	8 x Ø 1.25 THRU	Ø 22.75	16.42	22.7	27.6	15.5	18.3	1262	IW6 AWWA-IP68	152:1	38	150 PSI	225 PSI	
20	23.50	1.69	Ø 27.50	8 x 1.13-7 UNS-2B Ø 1.25	12 x Ø 1.25 THRU	Ø 25.00	17.09	23.7	28.6	15.5	17.4	1537	IW6 AWWA-IP68	228:1	57			
24	42.00	1.88	Ø 32.00	8 x 1.25-7 UNS-2B Ø 2.00	12 x Ø 1.38 THRU	Ø 29.50	21.06	27.4	35.4	21.6	21.8	3421	IW7 AWWA-IP68	384:1	96			
30	51.00	2.13	Ø 38.75	8 x 1.25-7 UNS-2B Ø 2.63	20 x Ø 1.38	Ø 36.00	22.19	30.3	37.2	27.2	22.5	6135	IW9 AWWA-IP68	696:1	174			
36	60.00	2.38	Ø 46.00	8 x 1.50-6 UNS-2B Ø 3.50	24 x Ø 1.63 THRU	Ø 42.75	25.81	34.7	42.3	27.2	27.7	8515	IW9 AWWA-IP68	928:1	232			

100% FULL FLOW ECCENTRIC PLUG VALVE WITH MECHANICAL JOINT ENDS AND GEAR FOR BURIED SERVICE SIZES 18"-36"



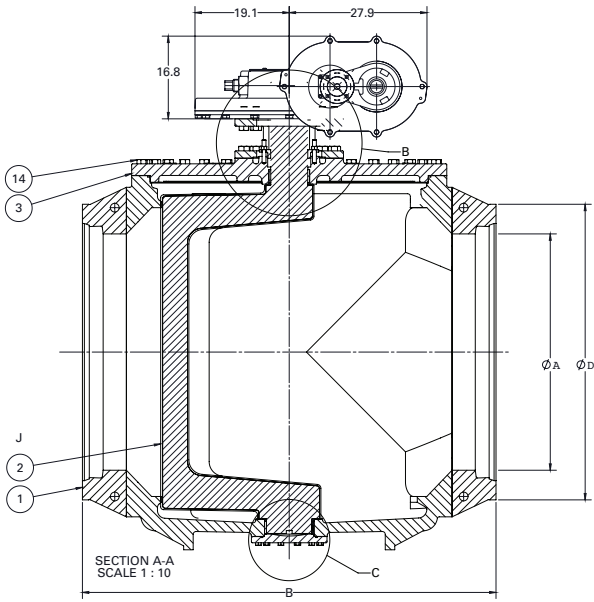
ITEM	PART NAME	ASTM DESIGNATION
1	Body - MJ	ASTM A536 65-45-12 OR 70-50-05
2	Plug	ASTM A536 65-45-12 OR 70-50-05 +NBR
3	Cover	ASTM A536 65-45-12 OR 70-50-05
4	Bottom Thrust Washer	PTFE
5	Botom Bearing	Sintered Alloy SS316
6	GRT Guard Shaft Seal (Lower)	NBR
7	GRT Guard Shaft Seal (Upper)	NBR
8	Upper Thrust Washer	PTFE
9	Upper Bearing Washer	Sintered Alloy SS316
10	V2-Packing-A N6225-55	NBR
11	V2-Top-Packing-A N6225-55	NBR
12	V2-Bottom-Packing-A N6225-55	NBR
13	FP Guard (For Actuator)	ASTM A536 65-45-12 OR 70-50-05
14	Bottom Cover	ASTM A536 65-45-12 OR 70-50-05
15	Cover Studs	Stainless Steel ASTM A276.1316
16	Hexagon Cover Bolts	Stainless Steel ASTM A276.1316
17	Bottom Cover Bolts	Stainless Steel ASTM A276.1316
18	Hexagon Adapter Bolts	Stainless Steel ASTM A276.1316
19	Cover Stud Hex Nut	Stainless Steel ASTM A276.1316
20	O-ring - Bottom Cover	NBR
21	O-ring - Top Cover	NBR
22	FP Adapter - Close	ASTM A536 65-45-12 OR 70-50-05
957	Gear Bolts	Stainless Steel ASTM A276.1316

NOTE:

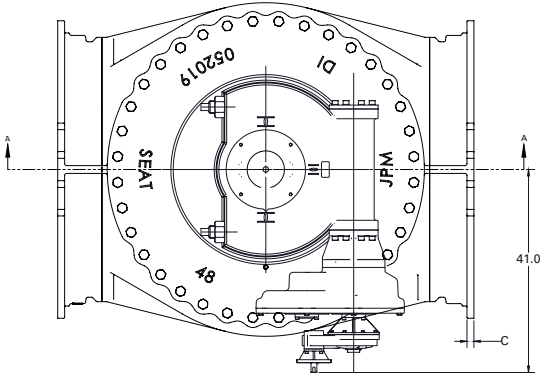
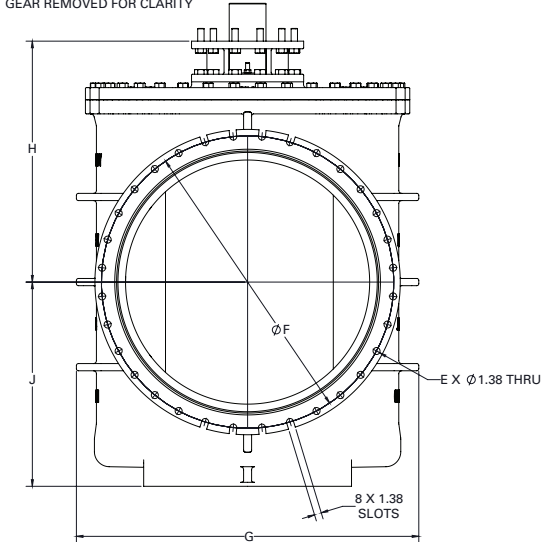
- Interior and exterior ferrous metal surfaces are epoxy coated.
- Only 30" and 36" valves have a bottom cover plate (see pentagon ballon items).
- Mount in orientation shown for buried service.
- Gearbox for buried service will not have position indicator.
- Body castings are tri-marked with "Clow", "Kennedy", and "M&H".

DIMENSIONS											Weight (lbs.)	Rotork Gear	Gear Ratio	Turns to Open (Approx.)	Water Working Press. PSI	Hydrostatic Test Press. PSI
A	B	C	D	F	G	H	I	J	K	L						
18	29.25	1.00	Ø 24.84	12 x Ø 7/8 THRU	Ø 23-1/4	16.42	21.50	27.6	15.5	18.3	1262	IW6 AWWA-IP68	152:1	38	150 PSI	225 PSI
20	31.00	1.02	Ø 27.08	14 x Ø 7/8 THRU	Ø 25-1/2	17.09	22.25	28.6	15.5	17.4	1537	IW6 AWWA-IP68	228:1	57		
24	42.00	1.02	Ø 31.57	16 x Ø 7/8 THRU	Ø 30	21.06	26.37	35.4	21.6	21.8	3421	IW7 AWWA-IP68	384:1	96		
30	51.00	1.32	Ø 39.12	20 x Ø 1-1/8 THRU	Ø 36-7/8	22.19	30.69	37.2	27.2	22.5	6135	IW9 AWWA-IP68	696:1	174		
36	60.00	1.45	Ø 46.00	24 x Ø 1-1/8 THRU	Ø 43-3/4	26.81	35.75	43.2	27.2	26.6	8515	IW9 AWWA-IP68	928:1	232		

100% FULL FLOW ECCENTRIC PLUG VALVE WITH FLANGED ENDS AND ROTORK GEAR SIZES 42" 48"



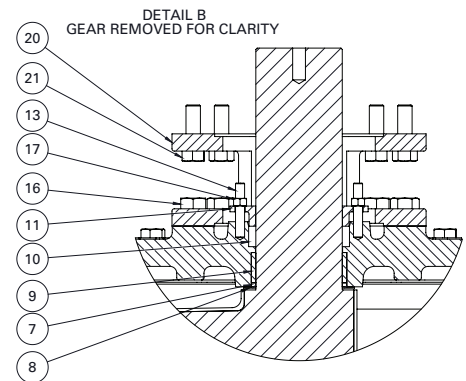
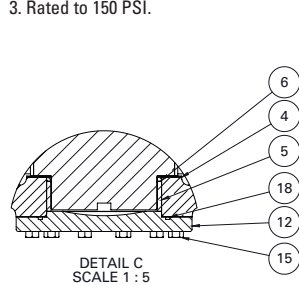
GEAR REMOVED FOR CLARITY



ITEM	PART NAME	ASTM DESIGNATION
1	Body	ASTM A536 65-45-12 OR 70-50-05
2	Plug	ASTM A536 65-45-12 OR 70-50-05 +NBR
3	Cover	ASTM A536 65-45-12 OR 70-50-05
4	Bottom Thrust Washer	PTFE
5	Bottom Bearing	Sintered Alloy SS316
6	GRT Guard Shaft Seal (Lower)	NBR
7	GRT Guard Shaft Seal (Upper)	NBR
8	Upper Thrust Washer	PTFE
9	Upper Bearing	Sintered Alloy SS316
10	V-Packing	NBR
11	Follower Gland	ASTM A536 65-45-12 OR 70-50-05
12	Bottom Cover	ASTM A536 65-45-12 OR 70-50-05
13	Gland Stud	Stainless Steel ASTM A276 T316
14	Cover Bolt	Stainless Steel ASTM A276 T316
15	Bottom Cover Bolt	Stainless Steel ASTM A276.1316
16	Stand Bolt	Stainless Steel ASTM A276.1316
17	Gland Nut	Stainless Steel ASTM A276.1316
18	O-ring - Bottom Cover	NBR
19	O-ring - Top Cover	NBR
20	Stand	ASTM A536 65-45-12 OR 70-50-05
21	Gear Bolt	Stainless Steel ASTM A276.1316
22	Rotork IW12/IR4/AS5 2374:1	---

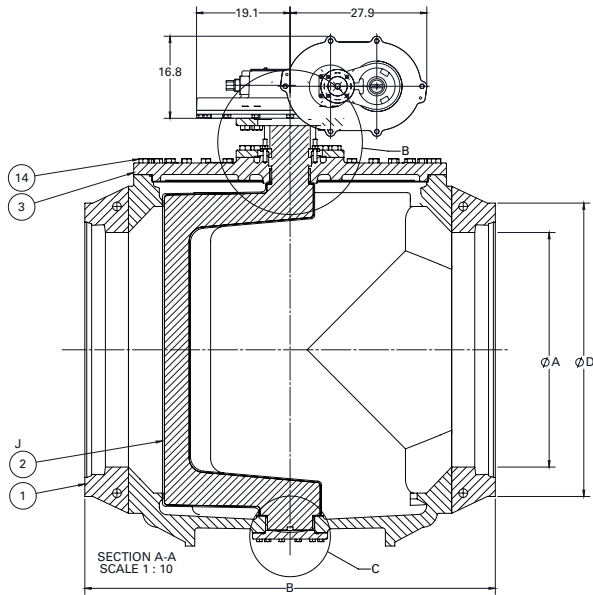
NOTE:

1. Interior and exterior ferrous metal surfaces are epoxy coated.
2. Body castings tri-marked with "Clow", "Kennedy", and "M&H".
3. Rated to 150 PSI.

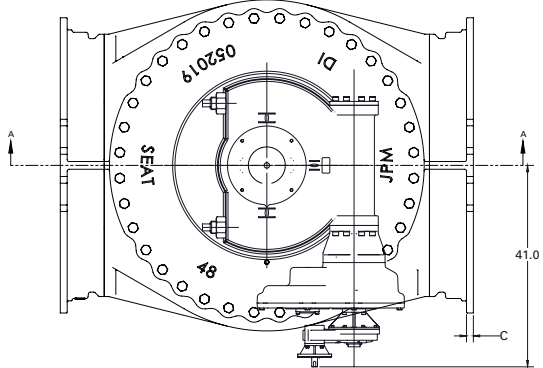
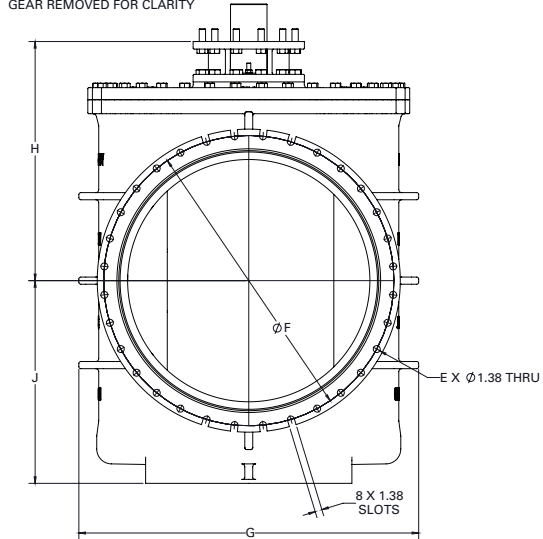


DIMENSIONS									
A (SIZE)	B	C	D	E	F	G	H	J	K
Ø42.00	72.00	2.63	Ø53.00	32	Ø49.50	59.5	43.23	37.40	Ø23.62
Ø48.00	84.00	2.75	Ø59.50	40	Ø56.00	67.3	47.37	40/16	Ø27.56

100% FULL FLOW ECCENTRIC PLUG VALVE WITH MECHANICAL JOINT ENDS AND ROTORK GEAR SIZES 42" 48"



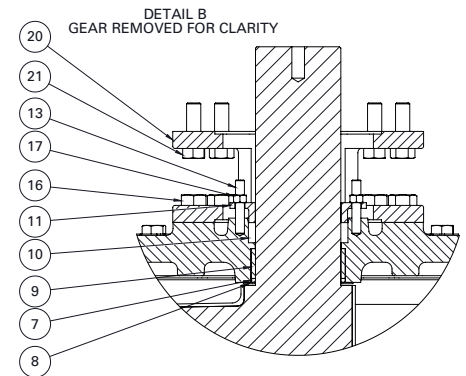
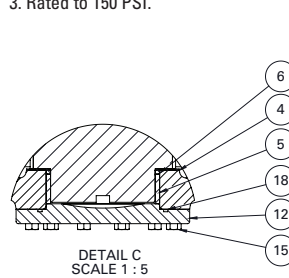
GEAR REMOVED FOR CLARITY



ITEM	PART NAME	ASTM DESIGNATION
1	Body	ASTM A536 65-45-12 OR 70-50-05
2	Plug	ASTM A536 65-45-12 OR 70-50-05 +NBR
3	Cover	ASTM A536 65-45-12 OR 70-50-05
4	Bottom Thrust Washer	PTFE
5	Bottom Bearing	Sintered Alloy SS316
6	GRT Guard Shaft Seal (Lower)	NBR
7	GRT Guard Shaft Seal (Upper)	NBR
8	Upper Thrust Washer	PTFE
9	Upper Bearing	Sintered Alloy SS316
10	V-Packing	NBR
11	Follower Gland	ASTM A536 65-45-12 OR 70-50-05
12	Bottom Cover	ASTM A536 65-45-12 OR 70-50-05
13	Gland Stud	Stainless Steel ASTM A276 T316
14	Cover Bolt	Stainless Steel ASTM A276 T316
15	Bottom Cover Bolt	Stainless Steel ASTM A276.1316
16	Stand Bolt	Stainless Steel ASTM A276.1316
17	Gland Nut	Stainless Steel ASTM A276.1316
18	O-ring - Bottom Cover	NBR
19	O-ring - Top Cover	NBR
20	Stand	ASTM A536 65-45-12 OR 70-50-05
21	Gear Bolt	Stainless Steel ASTM A276.1316
22	Rotork IW12/IR4/AS5 2374:1	---

NOTE:

1. Interior and exterior ferrous metal surfaces are epoxy coated.
2. Body castings tri-marked with "Clow", "Kennedy", and "M&H".
3. Rated to 150 PSI.

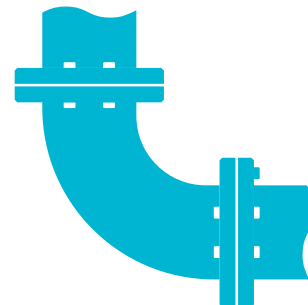
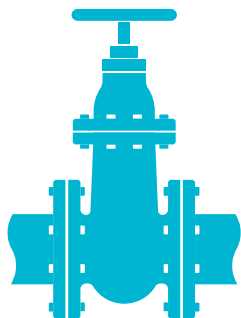


DIMENSIONS								
A (SIZE)	B	C	D	E	F	G	H	J
Ø42.00	72.00	1.40	Ø53.35	20	Ø50.62	59.5	43.23	37.40
Ø48.00	84.00	1.40	Ø60.00	24	Ø57.50	67.3	47.37	40/16



MPI PRODUCT LINE

VALVES • GATES • PIPE & FITTINGS



VALVES

SOLUTIONS:

- Rotating Disc Gate Valves (AWWA C500)
- Eccentric Plug Valves (AWWA C517)
- Butterfly Valves (AWWA C504)
- High Performance Butterfly Valves (API 609)
- Swing Check Valve (AWWA C508)
- Ken-Flex Resilient Hinged Check Valve
- Telescoping Valve
- Resilient Seat Gate Valve (AWWA C509/C515)
- Pressure Relief Valves (Floor & Wall)
- Mud Valves
- Shear Gate Valves
- Solid Wedge Gate Valve

GATES

SOLUTIONS:

- Fabricated Stainless Steel Gates
- Fabricated Aluminum Gates
- Stop Logs & Stop Gates
- Cast Iron Sluice (Slide) Gates
- Rectangular Butterfly Gates
- Automatic Level Control Gates
- Flap Gates

PIPE & FITTINGS

SOLUTIONS:

- Fabricated Flange and Wall Pipe
- Ductile Iron Pipe
- Grooved Pipe & Fittings
- Pipe Linings: cement, glass, Protecto 401™
- Welded Outlets, Thread-O-Lets, Welded Boss
- Restrained Joint Fittings
- Seismic Solutions



NOTES:



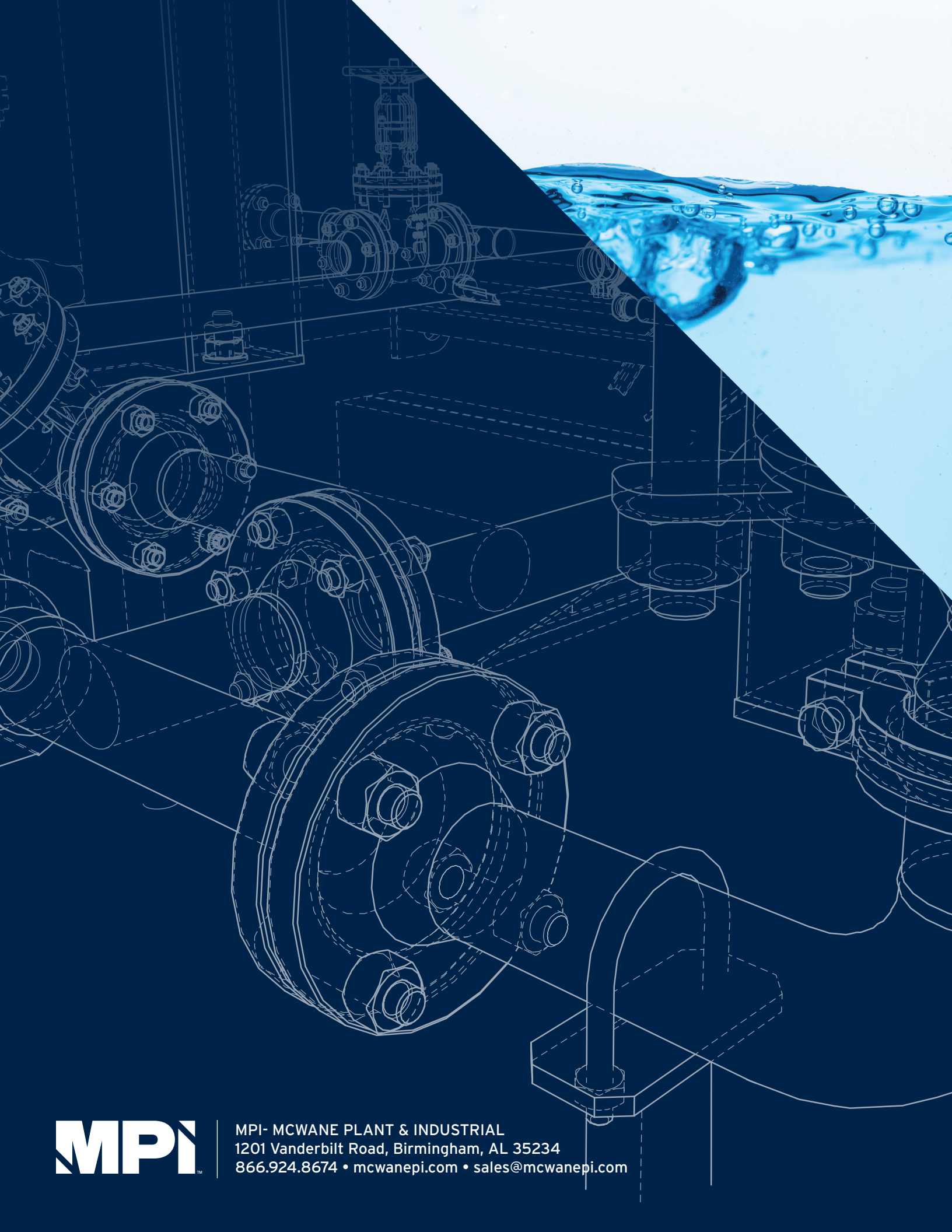
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MPI- MCWANE PLANT & INDUSTRIAL
1201 Vanderbilt Road, Birmingham, AL 35234
866.924.8674 • mcwanepi.com • sales@mcwanepi.com